BOARD OF DIRECTORS REGULAR MEETING AGENDA

Monday, June 15, 2026 at 3:00 PM

66575 Second St, Desert Hot Springs, CA AND/OR Via Teleconference

NOTICE IS HEREBY GIVEN THAT THE BOARD OF DIRECTORS OF MISSION SPRINGS WATER DISTRICT WILL HOLD ITS REGULAR MEETING(S) ON THE DATE LISTED ABOVE. THE BOARD WILL MEET IN PERSON AT 66575 SECOND STREET, DESERT HOT SPRINGS.

THE PUBLIC IS PERMITTED TO ATTEND THIS MEETING IN PERSON OR VIRTUALLY USING THE ZOOM LINK BELOW.

JOIN ZOOM MEETING:

https://us02web.zoom.us/j/8220655340?from=addon

DIAL BY PHONE:

+1 (408) 638-0968

Meeting ID: 822 065 5340

ACTION MAY BE TAKEN ON ANY ITEM LISTED ON THIS AGENDA

1. **CALL TO ORDER**
2. **ROLL CALL**
3. **APPROVAL OF BOARD MEMBER REMOTE ATTENDANCE**
4. **PLEDGE OF ALLEGIANCE**
5. **RULES OF PROCEDURE**
6. **PUBLIC INPUT**
   This is the opportunity for members of the public to address the Board on matters within the Board's jurisdiction. ***Please limit comments to three (3) minutes or less.*** *State law prohibits the Board from discussing or taking action on any item not listed on the agenda.*

CLOSED SESSION

7. **CONFERENCE WITH LEGAL COUNSEL REGARDING POTENTIAL INITIATION OF LITIGATION**
   pursuant to Government Code Section 54956.9(d)(4) Five potential cases.
8. **REPORT ON ACTION TAKEN DURING CLOSED SESSION**

EMPLOYEE RECOGNITION

9. HUMAN RESOURCES REPORT

ACTION ITEMS

10. PUBLIC HEARING (MONDAY 6/15/2026) - RESOLUTION 2026-06 ~ TO ESTABLISH SEWER STANDBY ASSESSMENTS

It is recommended to adopt Resolution No. 2026-06, making a determination to fix, levy, and collect sewer service standby assessments for the fiscal year 2026-2027.

11. PUBLIC HEARING (MONDAY 6/15/2026) RESOLUTION 2026-07 ~ TO ESTABLISH WATER STANDBY ASSESSMENTS

It is recommended that Resolution 2026-07 be adopted, making a determination to fix, levy, and collect water service standby assessments for the fiscal year 2026-2027.

12. RESOLUTION 2026-08~ ADDITION OF DELINQUENT ACCOUNTS TO COUNTY TAX ROLLS

It is recommended to adopt Resolution No. 2026-08 requesting the Addition of Delinquent Water and Sewer Charges and Other Fees of $5.00 or more to the 2026-2027 Riverside County Tax Rolls.

13. FISCAL YEAR 2026-27 BUDGET

A. It is recommended to adopt Resolution No. 2026-09, adopting the Operating and Capital Budgets FY 2026-27.

B. It is recommended to adopt Resolution No. 2026-10, adopting its Appropriations Limit for FYE June 30, 2027.

C. It is recommended to adopt Resolution No. 2026-11, adopting its Employee Classification Plan effective July 1, 2026.

14. RESOLUTION 2026 -05 ~ AMENDING THE CODIFIED MISSION SPRINGS WATER DISTRICT PERSONNEL RULES AND REGULATIONS TITLE 3 - PERSONNEL

It is recommended that the Board adopt Resolution 2026-05 updating the codified Mission Springs Water District (MSWD) Personnel Rules and Regulations, Title 3 - Personnel.

15. RESOLUTION 2026-12~ NOTICE OF GENERAL DISTRICT ELECTION, NOVEMBER 3, 2026, AND ESTABLISHMENT OF DEPOSIT FOR OPTIONAL CANDIDATE'S STATEMENT

It is recommended to adopt Resolution No. 2026-12 and authorize the District Secretary to notify the County Registrar of Voters that the offices of two members of the Board are to be filled and that candidates will be responsible for costs associated with the Candidate's Statement.

16. RESOLUTION 2026-14 ~ TO APPROVE THE INITIAL STUDY AND ADOPT THE MITIGATED NEGATIVE DECLARATION FOR THE MISSION SPRINGS WATER DISTRICT GROUNDWATER QUALITY PROTECTION PROGRAM

It is recommended that Resolution 2026-14 be adopted approving the Final Initial Study/Mitigated Negative Declaration for the Groundwater Quality Protection Plan, the Mitigation Monitoring and Reporting Plan, and authorizing the General Manager to sign and file a

Notice of Determination with the County of Riverside within five days of the Mission Springs Water District Board meeting.

17. CONTRACT AGREEMENT RENEWAL WITH INTELESYS COMMUNICATIONS SERVICES FOR INFORMATION TECHNOLOGY PROFESSIONAL SERVICES

It is recommended to authorize the General Manager to enter into a contract with Intelesys Communications Services for Information Technology (IT) Professional Services for the twelve-month period of July 1, 2026, to June 30, 2027, in the amount of $247,870.08, plus a 10% contingency for a total of $272,657.09, and do all things necessary to execute the agreement.

DISCUSSION ITEMS

18. ADMINISTRATION BUILDING UPDATE

19. GROUNDWATER PROTECTION PROGRAM UPDATE

CONSENT AGENDA

Consent agenda items are expected to be routine and non-controversial, to be acted upon by the Board at one time, without discussion. If a member would like an item to be handled separately, it will be removed from the Consent Agenda for separate action.

20. APPROVAL OF MINUTES

It is recommended to approve the minutes as follows:
May 14, 2026 ~ Study Session
May 18, 2026 ~ Board Meeting

21. REGISTER OF DEMANDS

The register of demands totaling $2,527,438.48

22. ACCEPTANCE OF BILL OF SALE FOR PROJECT VIENTO WATER AND SEWER INFRASTRUCTURE

It is recommended to authorize the General Manager to execute the Bill of Sale accepting the water and sewer infrastructure improvements associated with the Project Viento development, located at 64165 19th Avenue in the City of Desert Hot Springs, as contributed assets to the District, and to do all things necessary to complete the transfer of ownership of the public improvements to the District.

23. ACCEPTANCE OF BILL OF SALE FOR PALM PLACE WATER INFRASTRUCTURE

It is recommended to authorize the General Manager to execute the Bill of Sale accepting the water infrastructure improvements associated with the Palm Place development project, located at 66379 Pierson Blvd., in the City of Desert Hot Springs, as contributed assets to the District, and to do all things necessary to complete the transfer of ownership of the public improvements to the District.

24. ACCEPTANCE OF THE WATER SUPPLY ASSESSMENT AND WATER SUPPLY VERIFICATION FOR THE FIRST PALM SPRINGS COMMERCE CENTER II DEVELOPMENT PROJECT

It is recommended to accept and approve the Water Supply Assessment (WSA) and Water Supply

Certification (WSV) for the First Palm Springs Commerce Center II Development Project (Project) located in the City of Palm Springs.

REPORTS

25. DIRECTOR'S REPORTS

26. GENERAL MANAGER'S REPORT

Included in this report are the following oral reports:

A. Finance Report

B. Public Affairs Report

COMMENTS

27. DIRECTOR COMMENTS AND REQUESTS FOR FUTURE AGENDA ITEMS

1. General Comments
2. Requests for Future Agenda Items
3. Requests for Future Meetings

28. ADJOURN

If you need special assistance to participate in this meeting, please contact the Executive Assistant at (760) 660-4403 at least 48 working hours prior to the meeting.

ANY DISCLOSABLE PUBLIC RECORDS RELATED TO AN OPEN SESSION ITEM ON A REGULAR MEETING AGENDA AND DISTRIBUTED BY MISSION SPRINGS WATER DISTRICT TO ALL OR A MAJORITY OF THE BOARD OF DIRECTORS LESS THAN 72 HOURS PRIOR TO THAT MEETING ARE AVAILABLE FOR PUBLIC INSPECTION AT THE DISTRICT OFFICE, 66575 SECOND STREET, DESERT HOT SPRINGS, CALIFORNIA DURING NORMAL BUSINESS HOURS AND MAY ALSO BE AVAILABLE ON THE DISTRICT'S WEBSITE AT WWW.MSWD.ORG/MEETINGS. NOTE: THE PROCEEDINGS MAY BE AUDIO AND VIDEO RECORDED.

CERTIFICATION OF POSTING

I certify that on or before June 12, 2026, a copy of the foregoing notice was posted near the regular meeting place of the Board of Directors of Mission Springs Water District at least 72 hours in advance of the meeting (Government Code Section 54954.2).



Dori Petee
Executive Assistant

AGENDA STAFF REPORT

MEETING NAME: **REGULAR BOARD MEETINGS**

MEETING DATE(S): **JUNE 11 & 15, 2026**

FROM: **ORIANA HOFFERT – HUMAN RESOURCES MANAGER**

FOR: ACTION ___ DIRECTION ____ INFORMATION __X__

HUMAN RESOURCES REPORT

PERSONNEL ACTIVITY FOR THE PERIOD MAY 1-31, 2026

NEW HIRES

Daniel Lopez	Engineering Technician II	

ANNIVERSARIES

Joseph McElrone	Wastewater Treatment Plant Operator II	5 Years
Alexander Nine	Lead Fleet and Facilities Maintenance Worker	9 Years

PROMOTIONS

CERTIFICATIONS/EDUCATIONAL ACCOMPLISHMENTS

David Pena — Water Distribution Grade 3 Certificate
(Lead Field Services Representative)

Theresa Murphy — Associates in Arts Degree in Business Administration
Copper Mountain College

AGENDA STAFF REPORT

MEETING NAME: **REGULAR BOARD MEETING(S)**

MEETING DATE(S): **JUNE 11 & 15, 2026**

FROM: **SKYLER AUBREY – ACCOUNTING MANAGER**

FOR: ACTION _X__ DIRECTION ____ INFORMATION ____

RESOLUTION 2026-06 TO ESTABLISH SEWER STANDBY ASSESSMENTS

STAFF RECOMMENDATION

Adopt Resolution 2026-06, making a determination to fix, levy, and collect sewer standby assessments for fiscal year 2027.

SUMMARY

The District is required to conduct a public hearing for the purpose of placing sewer standby charges on the Riverside County property tax roll. The standby charges apply to certain properties that have not been disallowed by California Proposition 218. The standby assessment is deleted from the tax rolls when the subject property acquires sewer service.

ANALYSIS

Standby charges were developed for the purpose of paying the costs to maintain sewer lines that front undeveloped property. California Proposition 218 precludes any additional properties from being added to the standby rolls. The proposition does not require the cessation of charges on existing properties prior to the passage of the Proposition. The standby charge that was in effect at the time of passage of Proposition 218 cannot be increased. The standby assessment roll will eventually disappear as the affected properties are developed.

FINANCIAL DATA		
Cost Associated with this action:	-0-	
Current FY cost:	-0-	
Future FY cost:	-0-	
Is it covered in current year budget:	YES ☒	NO ☐
Budget adjustment needed:	YES ☐	NO ☒
If yes, year needed:	N/A	
All previous contracts including dates, amounts and board approvals are attached or have been made available.		
FUNDING SOURCES		
Source of funds:	Property Tax	
Project	N/A	
Current Project Balance	N/A	
Balance remaining if approved:	N/A	

FISCAL IMPACT & STRATEGIC PLAN IMPLEMENTATION

The proposed standby charge is estimated to generate revenue of $10,780.50 for the ensuing fiscal year beginning July 1, 2026. This action is consistent with Strategic Plan Smart Goal 3.2 – Control costs and manage debt responsibly.

ATTACHMENTS

Attachment 1_Resolution 2026-06
Attachment 2_2027 Standby Sewer Summary Listings
Attachment 3_Public Hearing Notice

RESOLUTION NO. 2026-06

A RESOLUTION OF THE BOARD OF DIRECTORS OF MISSION SPRINGS WATER DISTRICT MAKING ITS DETERMINATION TO FIX, LEVY AND COLLECT SEWERAGE AND WASTE SERVICE STANDBY ASSESSMENTS FOR THE FISCAL YEAR 2026-2027

WHEREAS, by Resolution No. 74-12 in 1974, the Board of Directors elected to proceed under Section 31104 of the Water Code to fix, levy, and collect sewerage and waste service standby assessments in Improvement District "S"; and

WHEREAS, a written Report of Sewerage and Waste Service Standby Assessments for Fiscal Year 2026-2027 was prepared by Willdan Financial Services using the same methodology as was used in 1974 and in subsequent years, and which Report was filed with the District Secretary; and

WHEREAS, the sewerage and waste standby assessment is levied to finance, in part, the capital costs and maintenance and operation expenses for the facilities that provide sewerage and waste service availability to the properties upon which it is levied; and

WHEREAS, the Secretary has caused notice of time and place for public hearing on the Report of Sewerage and Waste Service Standby Assessments to be published and mailed pursuant to Section 31032.2 of the Water Code; and

WHEREAS, a public hearing was held on said Report at the time and place specified in said notice; and

WHEREAS, at said public hearing, all objections or protests to said Report were heard and considered by the Board of Directors;

NOW, THEREFORE, the Board of Directors of Mission Springs Water District does hereby **RESOLVE, DETERMINE, AND ORDER** as follows:

Section 1. The Board of Directors has found and determined that the sewerage and waste standby assessment is levied to finance, in part, the capital costs and maintenance and operation expenses for the facilities, which provide sewerage and waste service availability to the properties upon which it is levied.

Section 2**.** That all objections and protests to the Report of Sewerage and Waste Service Standby Assessments received have been considered and are hereby overruled.

Section 3. That the Report and each sewerage and waste service standby assessment contained therein is hereby approved and adopted**.**

Section 4. That the sewerage and waste service standby assessments for Improvement District "S" for the fiscal year commencing July 1, 2026, and ending June 30, 2027, be and are hereby fixed as follows:

a. $10.00 for each parcel of land less than an acre, which abuts a street or easement in which a sewage collection line operated by the district is located.

b. $10.00 per acre for each parcel of land of an acre, and any portion in excess thereof will be charged $10.00 times the actual acreage located within a distance of approximately 330 feet from the centerline of a street or easement in which a sewage collection line operated by the district is located; provided that such parcel abuts said street or easement.

Section 5. That the sewerage and waste service standby assessment for Improvement District "S" shall not apply to certain parcels of land as follows:

a. Parcels of land, which do not abut a street or easement in which a sewage collection line operated by the district is located.

b. Parcels of land less than an acre on which an active service connection exists at the time the report is prepared.

c. With respect to parcels of one acre or more, one acre shall be exempted from the assessment for each equivalent single-family residential service connection, which is active and exists thereon at the time the report is prepared.

Section 6. That the Secretary shall file with the Riverside County Auditor in the time and manner specified by the County Auditor a copy of such written Report with a statement endorsed thereon over the signature of the Secretary that such report was finally adopted by this Board of Directors and the County Auditor shall enter the amount of such assessments against the respective lots or parcels of land as they appear on the current assessment roll, pursuant to section 31032.4 of the Water Code.

Section 7. That the County Tax Collector shall include the amount of such assessments on bills for taxes levied against the respective lots and parcels of land, and thereafter, the amount of such assessments shall be collected at the same time and in the same manner and by the same persons, as together with and not separately from, the general taxes for the District, and shall be subject to the same delinquency period.

ADOPTED this ___ day of June 2026, by the following vote:

Ayes:
Noes:
Abstain:

Amber Duff
President of Mission Springs Water District
and its Board of Directors

ATTEST:

Brian Macy
Secretary of Mission Springs Water District
and its Board of Directors

Mission Springs Water District
Standby Sewer, Fund No: 68-4870-FC
Fiscal Year 2026/2027 Preliminary Assessment Roll
(Sorted by Assessor's Parcel Number)

APN	APN	Name	Address	City	State	Zip	Charge
Total:							$10,780.50
Count							868

Item 10.

ORDER DETAILS

Order Number:
LYRK0523325
External Order #:
12347348
Order Status:
Approved
Classification:
Govt Public Notices
Package:
General Package
1 Affidavit:
0.00
Base amount:
255.60
Service fee:
10.20
Cash/Check/ACH

Discount:
-0.00
Total payment:
265.80
As an incentive for customers, we provide a discount off the total order cost equal to the 3.99% service fee if you pay with Cash/Check/ACH.Pay by Cash/Check/ACH and save! In no event are service fees refundable.
Payment Type:
visa
User ID:
L0045214
External User ID:
1252892

ACCOUNT INFORMATION

Mission Springs Water Dist- LGL
66575 2Nd ST
Desert Hot Springs, CA 92240-3711
760-329-6448
DPetee@mswd.org
Mission Springs Water Dist- LG
Contract ID:

PAYMENT DETAILS

visa**********5079

PREVIEW FOR AD NUMBER LYRK05233250

Mission Springs Water District
Notice of Public Hearing
Water & Sewer Standby Assessments

On Monday, June 15, 2026, at 3 p.m., the Board of Directors of Mission Springs Water District will conduct a public hearing on its annual water and sewer standby assessments for the 2026-2027 Fiscal Year, which are collected on property tax bills of affected properties. The Board will hear and consider all comments regarding this assessment at this public hearing. The public hearing on this assessment will be held in person and/or via Zoom at 66575 2nd Street, Desert Hot Springs, CA 92240. The public wishing to appear via Zoom can use the dial by phone feature +1(408)638-0968 Meeting ID: 822 065 5340 or by video https://us02web.zoom.us/j/8220655340.
These annual assessments finance the ongoing cost of maintaining and operating the water distribution lines and sewer collection lines, which provide water and sewer service access to certain properties and are based upon the proximity of those properties to water and/or sewer lines. No change is recommended from last year's assessment criteria. We want to ensure that you have all the information you need, and a report showing the proposed assessment and methodology will be readily available for viewing, by appointment, fourteen days prior to the public hearing, at the district offices located at 66575 2nd St., Desert Hot Springs, CA, or information may be obtained by calling 760-329-6448 ext. 117.
May 31, June 7 2026
LYRK0523325

Item 10.

TRANSACTION REPORT

Date

May 19, 2026 2:09:40 PM EDT

Amount:

265.80

ADDITIONAL OPTIONS

1 Affidavit

SCHEDULE FOR AD NUMBER LYRK05233250

May 31, 2026
Palm Springs Desert Sun
June 7, 2026
Palm Springs Desert Sun

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AGENDA STAFF REPORT

MEETING NAME: **REGULAR BOARD MEETING(S)**

MEETING DATE(S): **JUNE 11 & 15, 2026**

FROM: **SKYLER AUBREY – ACCOUNTING MANAGER**

FOR: ACTION _X__ DIRECTION ____ INFORMATION ____

RESOLUTION 2026-07 TO ESTABLISH WATER STANDBY ASSESSMENTS

STAFF RECOMMENDATION

Adopt Resolution 2026-07, making a determination to fix, levy, and collect water standby assessments for fiscal year 2027.

SUMMARY

The District is required to conduct a public hearing for the purpose of placing water standby charges on the Riverside County property tax roll. The standby charges apply to certain properties that have not been disallowed by California Proposition 218. The standby assessment is deleted from the tax rolls when the subject property acquires water service.

ANALYSIS

Standby charges were developed for the purpose of paying the costs to maintain water lines that front undeveloped property. California Proposition 218 precludes any additional properties from being added to the standby rolls. The proposition does not require the cessation of charges on existing properties prior to the passage of the Proposition. The standby charge that was in effect at the time of passage of Proposition 218 cannot be increased. The standby assessment roll will eventually disappear as the affected properties are developed.

FINANCIAL DATA		
Cost Associated with this action:	-0-	
Current FY cost:	-0-	
Future FY cost:	-0-	
Is it covered in current year budget:	YES ☒	NO ☐
Budget adjustment needed:	YES ☐	NO ☒
If yes, year needed:	N/A	
All previous contracts including dates, amounts and board approvals are attached or have been made available.		
FUNDING SOURCES		
Source of funds:	Property Tax	
Project	N/A	
Current Project balance	N/A	
Balance remaining if approved:	N/A	

FISCAL IMPACT & STRATEGIC PLAN IMPLEMENTATION

The proposed standby charge is estimated to generate revenue of $228,245.90 for the ensuing fiscal year beginning July 1, 2026. This action is consistent with Strategic Plan Goal 3.2 – Control costs and manage debt responsibly.

ATTACHMENTS

Attachment 1_Resolution 2026-07
Attachment 2_2027 Standby Water Summary Listings
Attachment 3_Public Hearing Notice

RESOLUTION NO. 2026-07

A RESOLUTION OF THE BOARD OF DIRECTORS OF MISSION SPRINGS WATER DISTRICT MAKING ITS DETERMINATION TO FIX, LEVY AND COLLECT WATER STANDBY ASSESSMENTS FOR THE FISCAL YEAR 2026-2027

WHEREAS, by Resolution No. 66-23 in 1966, the Board of Directors elected to proceed under Section 31032.1 of the Water Code to fix, levy and collect water standby assessments to finance, in part, the capital costs and maintenance and operation expenses for the facilities which provides water service availability to the properties upon which it levied; and

WHEREAS, a written Report of Water Standby Assessments for 2026-2027 was prepared by Willdan Financial Services using the same methodology as was used in 1966 and in subsequent years, and which report was filed with the District Secretary; and

WHEREAS, the Secretary has caused notice of time and place for public hearing on the Report of Water Standby Assessments to be published and mailed pursuant to Section 31032.2 of the Water Code; and

WHEREAS, a public hearing was held on said Report at the time and place specified in said notice; and

WHEREAS, at said public hearing, all objections or protests to said Report were heard and considered by the Board of Directors;

NOW, THEREFORE, the Board of Directors of Mission Springs Water District does hereby **RESOLVE, DETERMINE AND ORDER** as follows:

Section 1. The Board of Directors has found and determined that the water standby assessment is levied to finance, in part, the capital costs and maintenance and operation expenses for the facilities that provide water service availability to the properties upon which it is levied.

Section 2. That all objections and protests to the Report of Water Standby Assessments received have been considered and are hereby overruled.

Section 3. That the Report and each water standby assessment contained therein is hereby approved and adopted.

Section 4. That the water standby assessments for Improvement District Nos. 2, "B", "F", "G" and Service Area No. 2 for the fiscal year commencing July 1, 2026 and ending June 30, 2027, be and are hereby fixed as follows:

a. $26.80 for each parcel of land less than an acre, which abuts a street or easement in which a water distribution line operated by the district is located.

b. $26.80 per acre for each parcel of land of an acre, and any portion in excess thereof will be charged $26.80 times the actual acreage located within a distance of approximately 330 feet from the centerline of the street or easement in which a water distribution line operated by the district is located; provided, however, that such parcel abuts said street or easement.

c. $13.40 per acre for each parcel of land of an acre, and any portion in excess thereof will be charged $13.40 times the actual acreage located within a distance of approximately 330 feet to 1320 feet from the centerline of a street or easement in which a water distribution line operated by the district is located; provided, however, that such parcel abuts said street or easement.

Section 5. That the water standby assessment for Improvement District Nos. 2, "B", "F", "G" and Service Area No. 2 shall not apply to certain parcels of land as follows:

a. Parcels of land which do not abut a street or easement in which a water distribution line operated by the district is located.

b. Parcels of land less than an acre on which an active metered service connection exists at the time the report is prepared.

c. With respect to parcels of an acre or more, one acre of land shall be exempted from the water standby assessment for each active metered service connection which exists thereon at the time the report is prepared.

Section 6. That the Secretary shall file with the Riverside County Auditor, in the time and manner specified by the County Auditor, a copy of such written Report with a statement endorsed thereon over the signature of the Secretary that such report was finally adopted by this Board of Directors; and the County Auditor shall enter the amount of such assessments against the respective lots or parcels of land as they appear on the current assessment roll, pursuant to Section 31032.4 of the Water Code.

Section 7. That the County Tax Collector shall include the amount of such assessments on bills for taxes levied against the respective lots and parcels of land, and thereafter, the amount of such assessments shall be collected at the same time and in the same manner and by the same persons, as together with and not separately from, the general taxes for the District, and shall be delinquent at the same time and thereafter be subject to the same delinquency penalties, pursuant to Section 31032.6 of the Water Code.

ADOPTED this ___ day of June 2026, by the following vote:

Ayes:
Noes:
Abstain:

Amber Duff
President of Mission Springs Water District
and its Board of Directors

ATTEST:

Brian Macy
Secretary of Mission Springs Water District
and its Board of Directors

Mission Springs Water District
Standby Water, Fund No: 68-4853-FC & 68-4853 SBE
Fiscal Year 2026/2027 Preliminary Assessment Roll
(Sorted by Assessor's Parcel Number)

APN	APN	Name	Address	City	State	Zip	Charge
Total: [1]							$47,980.22
Count							417

Mission Springs Water District
Standby Water, Fund No: 68-4856-FC
Fiscal Year 2026/2027 Preliminary Assessment Roll
(Sorted by Assessor's Parcel Number)

APN	APN	Name	Address	City	State	Zip	Charge
Total:							$2,152.74
Count							52

Mission Springs Water District
Standby Water, Fund No: 68-4859-FC
Fiscal Year 2026/2027 Preliminary Assessment Roll
(Sorted by Assessor's Parcel Number)

APN	APN	Name	Address	City	State	Zip	Charge
Total:							$24,569.82
Count							121

Mission Springs Water District
Standby Water, Fund No: 68-4866-FC
Fiscal Year 2026/2027 Preliminary Assessment Roll
(Sorted by Assessor's Parcel Number)

APN	APN	Name	Address	City	State	Zip	Charge
Total:							$123,410.58
Count							3,289

Mission Springs Water District
Standby Water, Fund No: 68-4868-FC
Fiscal Year 2026/2027 Preliminary Assessment Roll
(Sorted by Assessor's Parcel Number)

APN	APN	Name	Address	City	State	Zip	Charge
Total:							$30,132.54
Count							627

68-4853-FC & 68-4853 SBE	$ 47,980.22
68-4856-FC	$ 2,152.74
68-4859-FC	$ 24,569.82
68-4866-FC	$ 123,410.58
68-4868-FC	$ 30,132.54
	$ 228,245.90

Item 11.

ORDER DETAILS

Order Number:
LYRK0523325
External Order #:
12347348
Order Status:
Approved
Classification:
Govt Public Notices
Package:
General Package
1 Affidavit:
0.00
Base amount:
255.60
Service fee:
10.20
Cash/Check/ACH

Discount:
-0.00
Total payment:
265.80
As an incentive for customers, we provide a discount off the total order cost equal to the 3.99% service fee if you pay with Cash/Check/ACH.Pay by Cash/Check/ACH and save! In no event are service fees refundable.
Payment Type:
visa
User ID:
L0045214
External User ID:
1252892

ACCOUNT INFORMATION

Mission Springs Water Dist- LGL
66575 2Nd ST
Desert Hot Springs, CA 92240-3711
760-329-6448
DPetee@mswd.org
Mission Springs Water Dist- LG
Contract ID:

PAYMENT DETAILS

visa**********5079

PREVIEW FOR AD NUMBER LYRK05233250

Mission Springs Water District
Notice of Public Hearing
Water & Sewer Standby Assessments

On Monday, June 15, 2026, at 3 p.m., the Board of Directors of Mission Springs Water District will conduct a public hearing on its annual water and sewer standby assessments for the 2026-2027 Fiscal Year, which are collected on property tax bills of affected properties. The Board will hear and consider all comments regarding this assessment at this public hearing. The public hearing on this assessment will be held in person and/or via Zoom at 66575 2nd Street, Desert Hot Springs, CA 92240. The public wishing to appear via Zoom can use the dial by phone feature +1(408)638-0968 Meeting ID: 822 065 5340 or by video https://us02web.zoom.us/j/8220655340.
These annual assessments finance the ongoing cost of maintaining and operating the water distribution lines and sewer collection lines, which provide water and sewer service access to certain properties and are based upon the proximity of those properties to water and/or sewer lines. No change is recommended from last year's assessment criteria. We want to ensure that you have all the information you need, and a report showing the proposed assessment and methodology will be readily available for viewing, by appointment, fourteen days prior to the public hearing, at the district offices located at 66575 2nd St., Desert Hot Springs, CA, or information may be obtained by calling 760-329-6448 ext. 117.
May 31, June 7 2026
LYRK0523325

Item 11.

TRANSACTION REPORT

Date

May 19, 2026 2:09:40 PM EDT

Amount:

265.80

ADDITIONAL OPTIONS

1 Affidavit

SCHEDULE FOR AD NUMBER LYRK05233250

May 31, 2026
Palm Springs Desert Sun
June 7, 2026
Palm Springs Desert Sun

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AGENDA STAFF REPORT

MEETING NAME: **REGULAR BOARD MEETING(S)**

MEETING DATE(S): **JUNE 11 & 15, 2026**

FROM: **SKYLER AUBREY – ACCOUNTING MANAGER**

FOR: ACTION _X__ DIRECTION ____ INFORMATION ____

RESOLUTION 2026-08 – ADDITION OF DELINQUENT ACCOUNTS TO THE 2026-2027 COUNTY ROLLS

STAFF RECOMMENDATION

Adopt Resolution No. 2026-08, requesting the Addition of Delinquent Water and Sewer Charges and Other Fees of $5.00 or more to the 2026-2027 Riverside County Tax Rolls.

SUMMARY

Pursuant to Water Code sections 31701 and 31701.5, account balances in excess of $5.00 and more than 60 days delinquent are placed on the County tax rolls annually.

ANALYSIS

Approximately 468 accounts were identified with a minimum balance of $5.00 and over 60 days delinquent totaling $298,769 of delinquent charges that are being proposed to be added to the 2026-2027 tax rolls.

FINANCIAL DATA		
Cost Associated with this action:	-0-	
Current FY cost:	-0-	
Future FY cost:	-0-	
Is it covered in current year budget:	YES ☐	NO ☒
Budget adjustment needed:	YES ☐	NO ☒
If yes, year needed:	N/A	
All previous contracts including dates, amounts and board approvals are attached or have been made available.		
FUNDING SOURCES		
Source of funds:	Property Tax	
Project	N/A	
Current Project balance	N/A	
Balance remaining if approved:	N/A	

FISCAL IMPACT & STRATEGIC PLAN IMPLEMENTATION

This action does not result in additional revenue to the District, just collection of outstanding delinquent accounts. These amounts have already been included in revenue in the month they were charged. However, this action does save staff the time and materials to continue to reach out to these customers to pay their unpaid water bill. This action is consistent with Strategic Plan Smart Goal 3.2 – Control costs and manage debt responsibly.

ATTACHMENTS

Attachment 1_Resolution 2026-08
Attachment 2_Listing of Delinquent Accounts

RESOLUTION NO. 2026-08

A RESOLUTION OF THE BOARD OF DIRECTORS OF MISSION SPRINGS WATER DISTRICT REQUESTING ADDITION OF DELINQUENT WATER AND SEWER CHARGES AND OTHER FEES OF $5.00 OR MORE TO THE 2026-2027 RIVERSIDE COUNTY TAX ROLLS

BE IT RESOLVED by the Board of Directors of Mission Springs Water District that, pursuant to Sections 31701 and 31701.5 of the Water Code, district charges of $5.00 or more that remain delinquent and unpaid for 60 days or more as of June 1, 2026 (Exhibit "A") are to be added to, and become a part of, the annual taxes on the applicable properties; and

BE IT FURTHER RESOLVED that this charge is levied without regard to property valuation, and that certified copies of this Resolution be forwarded by the District Secretary to the Riverside County Board of Supervisors and the Riverside County Auditor.

ADOPTED this ___ day of June 2026, by the following vote:

Ayes:
Noes:
Abstain:
Absent:

Amber Duff
President of Mission Springs Water District
and its Board of Directors

ATTEST:

Brian Macy
Secretary of Mission Springs Water District
and its Board of Directors

AS	APN	SERVICE ADDRESS	OTHER	WO FLAG
C	6672500381	11615 EVENING SKY DR	-98.44	Y
C	6672500381	11615 EVENING SKY DR	-24.18	Y
C	6672400324	11744 EVENING SKY DR	-409.17	Y
C	6564600072	66777 JOSHUA CT	-67.87	Y
C		16839 LITTLE MORONGO RD	-2,245.93	Y
C	6570830029	16290 VIA EL RANCHO	-24.76	Y
C	6571420010	16780 AVE DESCANSO	-9.54	Y
C	5231130111	12660 RUSHMORE AVE	-94.14	Y
C	6571520275	16320 AVE MANZANA	-310.90	
C	5231110027	12720 EXCELSIOR ST	-12.72	Y
C	6412140017	13320 CALIENTE DR	-27.26	Y
C	6412030046	13198 LA MESA DR	-22.63	Y
C	6412030046	13198 LA MESA DR	-2.64	Y
C	6412530371	13642 LA MESA DR	-50.65	Y
C	6412530371	13642 LA MESA DR	-23.79	Y
C	5230930033	12862 CENTURIAN ST	-14.21	Y
C	6571710328	16180 AVE MIROLA	-2.45	Y
C	6562430312	15900 AVE ATEZADA	-51.59	Y
C	5230930110	12905 DANBURY ST	-35.65	Y
C	6571810022	16087 BUBBLING WELLS RD	-23.56	Y
C	6564300101	15300 PALM DR #258	-18.86	Y
C	6564200177	15300 PALM DR #45	-1.36	Y
C	6564200111	15300 PALM DR #51	-224.14	Y
C	6564200111	15300 PALM DR #51	-38.84	Y
C	5171440013	12980 CREST LANE	-26.35	Y
C	6564200528	15300 PALM DR #115	-14.08	Y
C	6564300507	15300 PALM DR #152	-12.69	Y
C	6564300507	15300 PALM DR #152	-0.03	Y
C	6413030012	66629 JOSEPH WAY "B"	-244.87	
C	5172220179	13207 JOSHUA RD	-2,036.25	
C	6641100431	11750 DESERT TERRACE WAY	-1.03	Y
C	6663300787	690 W GARNET AVE	-248.53	Y
C	6634040135	65565 ACOMA AVE #116	-4.54	Y
C	6634060065	65565 ACOMA AVE #43	-374.17	Y
C	6634050028	65565 ACOMA AVE #119	-2.84	
C	6634050028	65565 ACOMA AVE #119	-1.58	
C	6634050150	65565 ACOMA AVE #132	-8.68	
C	6634050150	65565 ACOMA AVE #132	-5.56	
C	6633940070	65565 ACOMA AVE #82	-24.78	Y
C	6610520091	8796 CLUBHOUSE BLVD	-241.94	
C	6633410108	13052 CHOLLA DR	-41.70	
C	6633410108	13052 CHOLLA DR	-69.89	
C	6633710200	13715 EL RIO LN	-10.24	
C	6680500049	15086 RAINBOW RD	-3.63	Y
C	6391810031	66021 8TH ST	-157.72	Y
C	6564800063	66258 PALO VERDE TRL	-97.45	Y
C	6564900107	66206 LANTANA LN	-7.86	
C	6632700011	13300 LITTLE MORONGO RD	-523.80	Y
C	6632700011	13300 LITTLE MORONGO RD	-775.10	Y
C	6632700011	13300 LITTLE MORONGO RD	-1,319.66	Y

AS	APN	SERVICE ADDRESS	OTHER	WO FLAG
C	6631830012	13270 TRAMVIEW RD	-31.80	Y
C	6631830023	13300 TRAMVIEW RD	-27.26	Y
C	6411430018	66635 DESERT VIEW AVE	-199.38	Y
C	6610510054	64400 LEMA CT	-169.60	
C	6571710362	16130 AVE MIROLA	-122.05	Y
C	6661100116	63662 DILLON RD	-106.69	Y
C	6661100105	63690 DILLON RD	-354.43	Y
C	6391820254	11171 CACTUS DR	-45.32	Y
C	6630410080	12375 UNITED RD	-77.37	Y
C	6682400200	61980 BARREL CACTUS RD	-31.30	
C	6411140162	66696 DESERT VIEW AVE	-103.15	Y
C	6411140162	66696 DESERT VIEW AVE	-8.76	Y
C	6543250025	69621 PARKSIDE DR	-1.00	Y
C	6411320344	66834 DESERT VIEW AVE	-170.98	
C	6411320333	66846 DESERT VIEW AVE	-75.31	
C	6411320333	66846 DESERT VIEW AVE	-17.97	
C	6672700646	11543 SKY POINTE DR	-120.55	Y
C	6672700646	11543 SKY POINTE DR	-8.54	Y
C	667270069	11588 SKY POINTE DR	-53.96	
C	667270069	11588 SKY POINTE DR	-4.20	
C	6672800229	11689 S CRESCENT ST	-19.43	Y
C	6672800229	11689 S CRESCENT ST	-1.59	Y
C	6543240132	69601 COUNTRY CLUB DR	-7.67	
C	6543240132	69601 COUNTRY CLUB DR	-7.13	
C	6610810035	9721 CLUBHOUSE BLVD	-26.00	
C	6411120210	66634 CAHUILLA AVE	-202.89	Y
C	6411120210	66634 CAHUILLA AVE	-52.86	Y
C	6411110019	12260 PALM DR	-20.94	Y
C	6411110019	12260 PALM DR	-42.53	Y
C	6543220103	69548 CRESTVIEW DR	-15.73	
C	6543220103	69548 CRESTVIEW DR	-11.27	
C	6543250201	16411 VISTA CERRO DR	-52.42	Y
C	6662130181	17313 KEITH ST	-979.16	Y
C	6411210175	66977 PIERSON BLVD	-97.08	Y
C	6662040172	17149 LOUISE ST	-22.36	
C	6662500142	17855 LOUISE ST	-7.27	Y
C	6540930063	69440 POOLSIDE DR	-13.00	
C	6540930063	69440 POOLSIDE DR	-9.32	
C	6541360021	69510 PARKSIDE DR	-265.98	
C	6541340036	69341 MIDPARK DR	-4.68	Y
C	6541340036	69341 MIDPARK DR	-4.94	Y
C	6611110268	9741 TROON CT	-21.56	
C	6612920093	65800 AVE LADERA	-872.16	Y
C	6612920026	65821 AVE LADERA	-6.87	
C	6613130042	9676 DEL RAY LN	-95.64	
C	6540820300	16221 VISTA DEL SOL	-4.91	
C	6614600180	64199 MOUNT BLANC CT	-30.63	
C	6614600180	64199 MOUNT BLANC CT	-11.62	
C	6614500178	8758 SILVER STAR AVE	-96.98	
C	6614300022	64132 APPALACHIAN ST	-64.43	Y

AS	APN	SERVICE ADDRESS	OTHER	WO FLAG
C	6614200065	64310 APPALACHIAN ST	-309.85	
C	6392220136	66135 3RD ST	-197.56	
C	6392220136	66135 3RD ST	-62.21	
C	6614400474	64111 APACHE MOUNTAINS ST	-27.24	Y
C	6614300286	64060 OLYMPIC MOUNTAIN AVE	-80.99	
C	6614300286	64060 OLYMPIC MOUNTAIN AVE	-9.94	
C	6614100042	64375 PYRENESS AVE	-21.91	Y
C	6614100042	64375 PYRENESS AVE	-7.70	Y
C	6614100185	64329 SILVER STAR AVE	-211.68	Y
C	6614500024	9086 SILVER STAR AVE	-18.52	
C	6614500024	9086 SILVER STAR AVE	-5.40	
C	6610830107	9740 CAPILAND RD	-454.74	
C	6613210234	65501 AVE LADERA	-514.85	Y
C	6613410171	9545 VIA REAL	-81.37	Y
C	6541210014	69303 GOLDENWEST DR	-26.66	Y
C	6541210014	69303 GOLDENWEST DR	-9.34	Y
C	6610730294	8741 WARWICK DR	-116.80	Y
C	6410320093	66091 CAHUILLA AVE B	-27.33	
C	6410320093	66091 CAHUILLA AVE B	-13.03	
C	6611410041	64470 PINEHURST CIR	-48.25	Y
C	6611520089	64610 VARDON CT	-19.24	Y
C	6611520144	64577 PINEHURST CIR	-80.23	Y
C	6541700643	69525 DILLON RD #80	-10.00	
C	6541700643	69525 DILLON RD #88	-34.66	Y
C	6541700643	69525 DILLON RD #88	-9.85	Y
C	6541700643	69525 DILLON RD #107	-9.99	
C	6541700643	69525 DILLON RD #107	-0.90	
C	6541700643	69525 DILLON RD #93	-132.36	Y
C	6541700643	69525 DILLON RD #129	-26.02	
C	6410720404	66088 HACIENDA AVE	-13.63	Y
C	6393010130	66780 CRESCENT DR	-14.98	
C	6393010130	66780 CRESCENT DR	-4.82	
C	6383210180	11865 AMBROSIO DR	-12.74	
C	6383210388	11844 VERBENA DR	-7.72	
C	6383220127	11730 AMBROSIO DR	-272.37	Y
C	6383220127	11730 AMBROSIO DR	-16.15	Y
C	6383220062	11620 AMBROSIO DR	-126.81	
C	6382800128	10683 AMBROSIO DR	-104.57	
C	6382930030	67115 SAN ARDO RD	-103.08	Y
C	6384100206	11615 POMELO DR	-257.60	Y
C	6633110161	65788 CAHUILLA AVE	-0.50	Y
C	6442600198	68776 PROSPECT WAY	-4.54	Y
C	6442610047	68780 PANORAMA DR	-0.91	Y
C	6442940115	13996 AVENIDA LA VISTA	-263.00	Y
C	6633140182	65896 DESERT VIEW AVE	-63.90	
C	6634220131	12613 SYLVANUS DR	-421.96	Y
C	6634220131	12613 SYLVANUS DR	-13.61	Y
C	6440940018	12852 CATALPA AVE	-328.53	
C	6410210440	66040 ACOMA AVE	-0.86	Y
C	6410210440	66040 ACOMA AVE	-0.32	Y

AS	APN	SERVICE ADDRESS	OTHER	WO FLAG
C	6441620041	68480 HACIENDA AVE	-35.97	
C	6615500056	65077 ROLLING HILLS DR	-55.42	Y
C	6442230061	13120 DEODAR AVE	-9.54	Y
C	6440850087	12537 SPRUCE ST	-62.96	
C	6442800024	68381 PANORAMA DR	-282.94	
C	6442800024	68381 PANORAMA DR	-138.70	
C	6421940233	13565 MONTEREY RD	-72.69	Y
C	6421860052	67760 PEQUENA DR	-11.36	Y
C	6410310034	66031 BUENA VISTA AVE	-130.93	
C	6410310034	66031 BUENA VISTA AVE	-26.23	
C	6422110037	13400 HIDALGO ST	-51.39	
C	6422020138	67780 ARENA BLANCA RD	-549.35	Y
C	6422420077	13753 INAJA ST	-55.40	
C	6422130055	13420 INAJA ST	-404.60	Y
C	6422060019	13320 INAJA ST	-29.94	
C	6422070089	13140 QUINTA WAY	-492.32	Y
C	6422130242	13387 QUINTA WAY	-300.53	
C	6422430135	13625 QUINTA WAY	-54.41	
C	6410510014	66261 BUENA VISTA AVE	-374.78	
C	6564400124	67846 AVA CT	-309.96	Y
C	6564400124	67846 AVA CT	-9.05	Y
C	6564500192	67917 WHITNEY CT	-602.08	Y
C	6441430086	68205 CALLE LAS TIENDAS	-42.92	
C	6441520149	68190 CALLE BLANCO	-48.90	Y
C	6442020055	68237 VIA DOMINGO	-53.26	Y
C	6441940062	68133 VIA DOMINGO	-134.46	Y
C	6442020088	68269 VIA DOMINGO	-41.17	
C	6410510443	66282 CAHUILLA AVE	-926.62	Y
C	6410520062	66313 CAHUILLA AVE	-1,523.00	Y
C	6440650030	12700 AVE ALTA LOMA	-211.58	Y
C	6421850158	13088 CUANDO WAY	-5.44	
C	6411530338	12900 PALM DR "A"	-487.19	Y
C	6411530338	12900 PALM DR "A"	-153.96	Y
C	6411530338	12900 PALM DR "B"	-177.32	Y
C	6411720018	66765 GRANADA AVE	-14.81	Y
C	6411720018	66765 GRANADA AVE	-7.12	Y
C	6411720052	66805 GRANADA AVE	-0.79	Y
C	6420420442	67285 PIERSON BLVD	-26.08	Y
C	6391720242	66844 8TH ST	-594.82	
C	6391720088	66855 SAN REMO RD	-35.05	
C	6411710389	66870 GRANADA AVE	-18.95	
C	6411710037	66785 FLORA AVE	-73.65	Y
C	6391120202	66600 SAN MARCUS RD	-171.40	Y
C	6391310025	66775 YUCCA DR	-74.53	Y
C	6391120147	66670 SAN MARCUS RD	-66.64	
C	6391320172	10421 VERBENA DR	-39.67	
C	6391330010	66788 SAN RAFAEL DR	-35.95	
C	6391330010	66788 SAN RAFAEL DR	-0.95	
C	6390520010	10341 PALM DR	-83.45	Y
C	6390520021	10321 PALM DR	-6.81	Y

AS	APN	SERVICE ADDRESS	OTHER	WO FLAG
C	6390520285	66423 SAN MARCUS RD	-1.82	
C	6390410083	10168 SANTA CRUZ RD	-347.93	Y
C	6390310082	66101 14TH ST	-303.56	Y
C	6390310224	66072 SAN JUAN RD	-145.07	Y
C	6390220183	66195 SANTA ROSA RD	-12.85	
C	6411420125	66604 FLORA AVE	-0.45	Y
C	6382220184	66818 VERBENA DR	-577.22	
C	6382220195	66802 VERBENA DR	-7.37	
C	6382220195	66802 VERBENA DR	-0.48	
C	6381850113	66823 VERBENA DR	-31.53	Y
C	6381850113	66823 VERBENA DR	-19.22	Y
C	6382030284	9840 MESQUITE AVE	-23.83	Y
C	6382030284	9840 MESQUITE AVE	-29.74	Y
C	6381710165	66635 CASA GRANDE DR	-55.16	
C	6381720058	9420 VISTA DEL VALLE	-438.98	Y
C	6381610098	9765 VISTA DEL VALLE	-13.46	Y
C	6381050115	66320 AVE BARONA	-68.83	Y
C	6381050072	9488 CALLE DEL DIOS	-958.82	
C	6381020073	66247 AVE SUENOS	-29.47	Y
C	6380810266	9210 CALLE BARRANCA	-1.30	Y
C	6380810266	9210 CALLE BARRANCA	-0.27	Y
C	6380840209	9490 WEST DR	-8.68	Y
C	6380840209	9490 WEST DR	-2.22	Y
C	6381510086	66253 AVE BARONA	-27.71	Y
C	6381510086	66253 AVE BARONA	-33.17	Y
C	6381520056	66287 AVE CADENA	-34.33	Y
C	6381410041	66051 AVE DORADO	-401.71	
			-32,182.36	
			-32,182.36	
A	6571130076	16525 AVE DESCANSO	-5,894.63	T
A	6560920338	15240 VIA VISTA	-3,050.61	T
A	6560920338	15240 VIA VISTA	-960.41	T
A	6672200025	13555 OLD MORONGO RD	-717.88	T
A	6570930053	16154 VIA QUEDO	-866.18	T
A	6570930053	16154 VIA QUEDO	-73.46	T
A	6683600278	19300 ATKINS RD	-849.25	T
A	6683800160	19855 KING RD	-832.82	T
A	6683800193	19995 KING RD	-742.05	T
A	6690400166	61750 EL DORADO RD	-1,019.45	T
A	5231210028	12820 EXCELSIOR ST	-1,736.35	T
A	6412140017	13320 CALIENTE DR	-590.44	T
A	5231330014	53920 PENLAND RD	-1,569.54	T
A	6680400071	14595 OVERHILL RD	-1,051.73	T
A	6562220120	15483 AVE RAMBLA	-1,298.60	T
A	6571820180	16425 AVE RAMBLA	-781.49	T
A	5172220047	13180 JOSHUA RD	-1,141.72	T

AS	APN	SERVICE ADDRESS	OTHER	WO FLAG
A	6680600062	15042 VERNON RD	-5,885.60	T
A	6564100406	15300 PALM DR #232	-414.98	T
A	6564100406	15300 PALM DR #232	-148.64	T
A	5171620185	55536 SAN PIERRE RD	-957.15	T
A	5172000467	55565 SAN PIERRE RD	-1,319.54	T
A	6391810570	66201 8TH ST	-1,275.18	T
A	6680600105	15050 CHOLLA RD	-975.25	T
A	5171530022	55525 LAUREL CREST DR	-1,242.56	T
A	6412710070	66570-80 IRONWOOD DR	-1,015.80	T
A	6412710070	66560 IRONWOOD DR	-1,015.80	T
A	5172820021	13370 JOSHUA RD	-720.15	T
A	6680600116	15220 CHOLLA RD	-7,134.25	T
A	6680600259	15301 SEELEY RD	-735.20	T
A	6683900842	61610 EL DORADO RD	-1,076.80	T
A	5172730144	13276 OCOTILLO RD	-869.45	T
A	6391810547	66032 7TH ST	-896.37	T
A	5173400064	55860 HAUGEN-LEHMANN WAY "A"	-3,842.98	T
A	5173400064	55860 HAUGEN-LEHMANN WAY "D"	-2,637.69	T
A	5173400064	55860 HAUGEN-LEHMANN WAY "C"	-8,599.24	T
A	5173400064	55860 HAUGEN-LEHMANN WAY "B"	-1,080.81	T
A	6680700018	60105 WESTSIDE DR	-1,152.58	T
A	6564700424	66392 N AGUA DULCE DR	-1,573.29	T
A	6410310485	66014 CAHUILLA AVE	-316.69	T
A	6410310485	66014 CAHUILLA AVE	-243.32	T
A	6391820506	66126 6TH ST	-1,018.87	T
A	6650800151	15850 LITTLE MORONGO RD METER A	-3,225.09	T
A	6391820210	66201 7TH ST	-1,241.91	T
A	6632220067	13955 UNITED RD	-889.99	T
A	6682300090	61490 DILLON RD	-767.22	T
A	6631400372	13825 BLUMA DR	-1,368.29	T
A	6630900103	64050 DESERT SANDS RD	-1,882.07	T
A	6630810402	64150 THOMAS AVE	-734.10	T
A	6411320070	66827 CAHUILLA AVE	-800.85	T
A	6663920053	19206 MCLANE ST	-938.62	T
A	666340035	18462 SKYWALKER CT	-13,298.89	T
A	6663400546	18566 18TH AVE A	-579.41	T
A	6663400557	18566 18TH AVE B	-579.41	T
A	6663400568	18566 18TH AVE C	-579.41	T
A	666340040	18776 BLUE DREAM CROSSING RD MTR A	-8,098.83	T
A	6663400403	18776 BLUE DREAM CROSSING RD MTR B	-867.75	T
A	6631200105	64425 DOUGLAS WAY	-2,285.68	T
A	6630700420	64200 SHERMAN WAY	-1,388.06	T
A	6630700354	64225 SHERMAN WAY	-1,226.26	T
A	6662120056	17428 COVEY ST	-706.37	T
A	6672110193	61730 CREST LN	-1,045.36	T
A	6543230096	69561 COUNTRY CLUB DR	-586.20	T
A	6543230096	69561 COUNTRY CLUB DR	-274.63	T
A	6662030081	17118 SANBORN ST	-917.50	T
A	6411040149	66710 BUENA VISTA AVE	-1,363.52	T
A	6411040149	66710 BUENA VISTA AVE	-131.32	T

AS	APN	SERVICE ADDRESS	OTHER	WO FLAG
A	6662500142	17855 LOUISE ST	-532.21	T
A	6661600100	64175 16TH AVE	-1,200.23	T
A	6660700157	64580 16TH AVE	-635.23	T
A	6392410212	11555 PALM DR	-4,015.29	T
A	6392410212	11555 PALM DR	-2,817.02	T
A	6392220093	66099 3RD ST	-1,121.69	T
A	6614400308	64132 APACHE MOUNTAINS ST	-920.67	T
A	6614400308	64132 APACHE MOUNTAINS ST	-5.63	T
A	6614000063	64313 PYRENESS AVE	-1,934.26	T
A	6614700093	8599 ROCKIES AVE	-1,188.51	T
A	6614700103	8621 ROCKIES AVE	-1,188.51	T
A	6614700114	8645 ROCKIES AVE	-1,188.51	T
A	6614700125	8669 ROCKIES AVE	-1,188.51	T
A	6392510048	66309 2ND ST	-865.36	T
A	6392310408	66220 1ST ST	-897.43	T
A	6613210135	65671 AVE LADERA	-485.50	T
A	6613210135	65671 AVE LADERA	-165.53	T
A	6541210180	16781 VISTA DEL SOL	-2,047.79	T
A	6392310431	66156 1ST ST	-867.24	T
A	6392320160	66155 1ST ST	-1,683.74	T
A	6613600411	8409 MEADOWS WAY	-2,201.94	T
A	6613600411	8409 MEADOWS WAY	-850.47	T
A	6613600400	8413 MEADOWS WAY	-744.88	T
A	6613600400	8413 MEADOWS WAY	-287.70	T
A	6613600071	8520 SUMMIT PASS	-764.35	T
A	6613600071	8520 SUMMIT PASS	-295.22	T
A	6613600082	8522 SUMMIT PASS	-817.44	T
A	6613600082	8522 SUMMIT PASS	-315.73	T
A	6613600213	8204 SUMMIT PASS	-764.35	T
A	6613600213	8204 SUMMIT PASS	-295.22	T
A	6613600169	8271 SUMMIT PASS	-960.16	T
A	6613600169	8271 SUMMIT PASS	-94.16	T
A	6613600246	8272 SUMMIT PASS	-956.29	T
A	6613600246	8272 SUMMIT PASS	-93.78	T
A	6613600158	8283 SUMMIT PASS	-890.56	T
A	6613600158	8283 SUMMIT PASS	-85.01	T
A	6613600477	8305 MEADOWS WAY	-892.09	T
A	6613600477	8305 MEADOWS WAY	-88.28	T
A	6613600521	8328 MEADOWS WAY	-1,025.07	T
A	6613600521	8328 MEADOWS WAY	-100.52	T
A	6392520283	66328 PIERSON BLVD	-1,195.26	T
A	6392520283	66328 PIERSON BLVD	-1,397.20	T
A	6540820234	69268 PARKSIDE DR	-699.89	T
A	6540820234	69268 PARKSIDE DR	-380.60	T
A	6392520294	66338 PIERSON BLVD	-1,201.01	T
A	6392720153	66700 5TH ST	-9,803.35	T
A	6392720153	66700 5TH ST	-12,759.68	T
A	6392720087	66634 5TH ST	-5,873.27	T
A	6392720087	66634 5TH ST	-7,225.48	T
A	6410820405	66320 FLORA AVE	-1,420.74	T

AS	APN	SERVICE ADDRESS	OTHER	WO FLAG
A	6392720131	66659 6TH ST	-2,606.02	T
A	6392720131	66659 6TH ST	-3,011.71	T
A	6410910096	66339 FLORA AVE	-924.79	T
A	6410720064	66061 GRANADA AVE	-468.37	T
A	6410720064	66061 GRANADA AVE	-388.23	T
A	6633020118	65958 ACOMA AVE	-570.72	T
A	6382800304	10615 SMOKEWOOD CIR	-1,125.08	T
A	6383150015	11220 POMELO DR	-1,301.20	T
A	6383150015	11220 POMELO DR	-472.46	T
A	6441610060	12991 ACACIA AVE	-1,139.21	T
A	6633140115	65958 DESERT VIEW AVE	-1,261.37	T
A	661550018	65267 ROLLING HILLS DR	-1,042.12	T
A	6441350014	12844 DEODAR AVE	-625.03	T
A	6440850043	12572 REDBUD RD	-809.45	T
A	6422070089	13140 QUINTA WAY	-790.05	T
A	6441520282	13390 AVE HERMOSA	-2,258.16	T
A	6441520282	13390 AVE HERMOSA	-160.61	T
A	6410510245	12331 PALM DR	-1,419.71	T
A	6410510245	12331 PALM DR	-2,689.54	T
A	6440720274	68165 CLUB CIRCLE DR	-3,120.09	T
A	6440720274	68165 CLUB CIRCLE DR	-264.64	T
A	6410810039	66283 DESERT VIEW AVE	-1,392.77	T
A	6410810040	66291 DESERT VIEW AVE	-1,347.15	T
A	6410810040	66291 DESERT VIEW AVE	-130.91	T
A	6611720234	64935 LEONARD CT	-700.50	T
A	6420410054	67223 PIERSON BLVD	-1,304.87	T
A	6420410054	67223 PIERSON BLVD	-2,682.90	T
A	6390220259	66072 14TH ST	-1,075.24	T
A	6382130131	66934 CASA GRANDE DR	-1,217.77	T
			-230,830.77	
C	6672600360	62555 S STARCROSS DR	-240.92	T
C	6570840011	16260 VIA CORTO E	-16.35	T
C	6561220329	15780 VIA QUEDO	-46.22	T
C	6570920193	16215 VIA QUEDO	-260.27	T
C	6570920193	16215 VIA QUEDO	-31.04	T
C	6561010061	15151 VIA MONTANA	-201.50	T
C	6561720038	15075 AVE RAMADA	-78.44	T
C	6561720038	15075 AVE RAMADA	-73.75	T
C	6572010298	16528 AVE MIROLA	-13.17	T
C	6411620138	66885 ESTRELLA AVE	-301.43	T
C	6562420265	15810 AVE RAMBLA	-484.28	T
C	6411850117	13063 CACTUS DR	-999.21	T
C	6411830177	13235 JULIAN DR	-272.88	T
C	6411830177	13235 JULIAN DR	-29.48	T
C	5172210109	13210 JOSHUA RD	-184.97	T
C	6680400323	14920 PAINTED HILLS RD	-844.34	T
C	6413030067	13715 RICHARD WAY "B"	-111.81	T
C	6633420080	13100 EL RIO LN	-13.63	T

AS	APN	SERVICE ADDRESS	OTHER	WO FLAG
C	6412410297	13788 EL CAJON DR	-83.59	T
C	6412410297	13788 EL CAJON DR	-41.87	T
C	6564900107	66206 LANTANA LN	-335.31	T
C	6680700184	15774 COUNTRY VIEW RD	-1,874.86	T
C	6391820122	66115 7TH ST	-345.88	T
C	6632700044	13310 LITTLE MORONGO RD C	-8,012.56	T
C	6632700044	13310 LITTLE MORONGO RD C	-4,922.75	T
C	6630410079	12461 UNITED RD	-88.18	T
C	6610610220	64108 DORAL DR	-190.68	T
C	6411320070	66827 CAHUILLA AVE	-414.74	T
C	6672600612	11836 SKYLARK ST	-69.73	T
C	6672700482	11599 KITETAIL DR	-105.78	T
C	6672700482	11599 KITETAIL DR	-165.36	T
C	6672800449	11612 S CRESCENT ST	-91.63	T
C	6672800449	11612 S CRESCENT ST	-30.17	T
C	6664220066	19437 NEWHALL ST	-1,187.51	T
C	6664020019	19024 RUPERT ST	-1,112.36	T
C	6543240220	69584 PARKSIDE DR	-78.15	T
C	6411030058	66530 BUENA VISTA AVE "B"	-185.35	T
C	6411210065	66817 PIERSON BLVD	-5.20	T
C	6411210065	66817 PIERSON BLVD	-1.16	T
C	6391920145	66135 5TH ST	-418.20	T
C	6392210166	66145 4TH ST	-1,461.64	T
C	6611110268	9741 TROON CT	-203.15	T
C	6392420347	66330 2ND ST	-49.00	T
C	6392510060	66325 2ND ST	-208.14	T
C	6541450030	69430 FAIRWAY DR	-135.43	T
C	6410320466	66176 DESERT VIEW AVE	-340.61	T
C	6410320466	66176 DESERT VIEW AVE	-155.58	T
C	6410910371	66350 GRANADA AVE	-142.26	T
C	6410710083	66100 GRANADA AVE	-146.35	T
C	6634110302	65842 FLORA AVE	-1,623.83	T
C	6383120049	11400 VERBENA DR	-99.85	T
C	6383120049	11400 VERBENA DR	-1.31	T
C	6612510041	64900 DESERT AIR CT	-94.83	T
C	6383140067	11263 POMELO DR	-71.05	T
C	6383050081	11155 FOXDALE DR	-82.82	T
C	6632400106	65072 DESERT VIEW AVE	-510.25	T
C	6440840183	12575 DEODAR AVE	-405.45	T
C	6421930263	13545 CIELO AZUL WAY	-1,324.00	T
C	6422130066	13440 INAJA ST	-49.00	T
C	6410220377	66124 BUENA VISTA AVE	-235.52	T
C	6422130253	13361 QUINTA WAY	-129.53	T
C	6422430135	13625 QUINTA WAY	-78.29	T
C	6564500345	67898 ALEXANDRIA CT	-72.62	T
C	6564500444	67919 ALEXANDRIA CT	-296.60	T
C	6441520183	68150 CALLE BLANCO	-208.01	T
C	6441630033	13039 CALLE AMAPOLA	-65.31	T
C	6611920270	64861 BURKE CT	-138.75	T
C	6440920045	12865 CALLE AMAPOLA	-81.92	T

AS	APN	SERVICE ADDRESS	OTHER	WO FLAG
C	6421350120	12675 INAJA ST	-49.00	T
C	6391720044	66809 SAN REMO RD	-46.55	T
C	6411710291	66954 GRANADA AVE	-35.72	T
C	6391020047	66623 MISSION LAKES BLVD	-182.43	T
C	6390520175	66334 SAN JUAN RD	-141.52	T
C	6391520019	66613 SAN LUIS RD	-343.23	T
C	6391520019	66613 SAN LUIS RD	-115.08	T
C	6390820068	10626 SAN PABLO RD	-172.31	T
C	6391440081	66634 SAN LUIS RD	-274.43	T
C	6391440081	66634 SAN LUIS RD	-45.35	T
C	6390310093	66113 14TH ST	-124.56	T
C	6615000161	65439 VIA DEL SOL	-58.33	T
C	6381850092	66801 VERBENA DR	-186.51	T
C	6381850092	66801 VERBENA DR	-2.37	T
C	6382130252	66961 VERBENA DR	-928.49	T
C	6382030338	66900 MISSION LAKES BLVD	-96.52	T
C	6381310325	66144 AVE CADENA	-59.84	T
C	6381320186	66227 AVE CADENA	-517.36	T
			-35,755.41	
			-266,586.18	
			-298,768.54	

AGENDA STAFF REPORT

MEETING NAME: **REGULAR BOARD MEETINGS**

MEETING DATE(S): **JUNE 11 & 15, 2026**

FROM: **SKYLER AUBREY, ACCOUNTING MANAGER**

FOR: ACTION _**X**_ DIRECTION ___ INFORMATION ___

RESOLUTIONS 2026-09, 2026-10 AND 2026-11 2027 OPERATING AND CAPITAL BUDGET, APPROPRIATIONS LIMIT AND CLASSIFICATION PLAN

STAFF RECOMMENDATION

Adopt the following resolutions related to the fiscal year ending June 30, 2027, operating and capital budgets:

- 2026-09 Operating and Capital Budgets FY 2026-2027
- 2026-10 Appropriations Limit for FYE June 30, 2027
- 2026-11 Employee Classification Plan

SUMMARY

The California Water Code requires that a budget be adopted by the Board of Directors by June 30. The 2026-2027 Operating and Capital budgets were presented in detail at the June 3, 2026, Board Workshop. Staff recommends adoption as presented.

ANALYSIS

As detailed in the materials handed out and discussed at the June 3, 2026, Board Workshop.

FINANCIAL DATA FY 2026-2027	
Operating Revenues:	$25,837,512
Operating Expenses:	$31,693,004
Net Operating Loss:	($5,855,492)
Non-Operating Revenues:	$20,534,209
Non-Operating Expenses:	$299,586
Total Change in Net Position:	$14,379,131
Cash Flows:	$4,821,174

FISCAL IMPACT

As detailed in the materials handed out and discussed at the June 3, 2026, Board Workshop. This action is consistent with the Mission Springs Water District Strategic Plan, SMART Goal 3 Financial Management.

ATTACHMENTS

Attachment 1_Draft MSWD FY 2027 Operating & Capital Budget
Attachment 2_FY 2027 Employee Classification Plan
Attachment 3_FY 2027 Salary Matrix
Attachment 4_Resolution 2026-09 Budget
Attachment 5_Resolution 2026-10 Appropriations Limit
Attachment 6_Resolution 2026-11 Classification Plan

GM Recommended Draft
June 11, 2026



FISCAL YEAR 2026 - 2027

OPERATING & CAPITAL BUDGET

2027

MSWD
Mission Springs Water District

Mission Springs Water District

66575 Second Street
Desert Hot Springs, CA 92240
www.mswd.org
760-329-6448

Mission Statement

Mission Springs Water District has one simple mission:
Provide, protect, and preserve our most
valuable resource…water.

Board of Directors



Amber Duff
President



Robert Griffith
Vice President

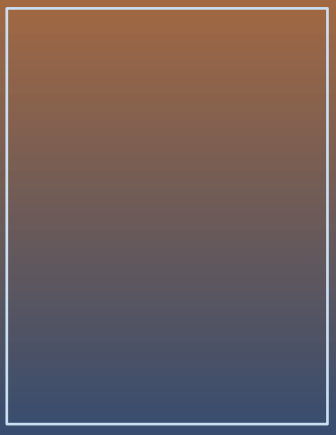
MSWD
Mission Springs Water District



Ivan Sewell
Member



Russ Martin
Member



Ted Mayrhofen
Member

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GENERAL MANAGER'S MESSAGE

2027

MSWD
Mission Springs Water District

Mission Springs Water District

66575 Second Street
Desert Hot Springs, CA 92240
www.mswd.org
760-329-6448

GENERAL MANAGER'S MESSAGE

June 15, 2026

To the Board of Directors:

Over the past two years, my focus as General Manager of the Mission Springs Water District (MSWD) has been on rebuilding organizational culture and leadership. This intentional effort to strengthen accountability, transparency, and performance is helping to position the District for long-term success, and I am pleased to share this commitment is yielding meaningful results.

In the past year, we made significant progress advancing our Strategic Plan, strengthening the reliability of our water system while preparing for the future. We are rehabilitating key wells and reservoirs to maintain dependable water supplies, and we are expanding sewer service to areas that rely on septic systems, protecting our groundwater and improving public health.

MSWD also took an important step forward in planning for long-term water sustainability. Our Board adopted a new strategic goal to develop a District-wide recycled water program. This effort will diversify our water supply, reduce reliance on imported water, and position MSWD to secure funding and advance projects that support regulatory compliance and future growth.

We are building a new culture at MSWD – one rooted in transparency, accountability, and good governance – and I am proud that these efforts have earned the Special Districts Leadership Foundation Platinum Level District of Distinction, the highest honor a California Special District can receive. This achievement distinguishes MSWD as the sole water district in the Coachella Valley to receive this level of recognition for its excellence in governance, transparency, and fiscal responsibility.

One of the most important efforts this year was our transparent rate review process, which was deliberately guided by information, analysis, and recommendations developed through the Community Listening Engagement and Advisory on Rates (CLEAR) Committee. We established this community advisory group and held public meetings to ensure that any decisions about rates were informed, open, and accountable.

This process looked not only at our current operating needs, but also at the long-term investments required to maintain reliable service and protect the District's financial health. By setting rates in this transparent and methodical way, we established a clear and

responsible course for financial stability – both now and into the future. That level of transparency is not a one-time effort; it is a standard we will continue to uphold.

While we are proud of this progress, we know there is more work ahead. Ensuring safe, reliable water services required ongoing investment, careful planning, and a long-term perspective – and MSWD remains committed to meeting that responsibly for our community now and into the future.

Budget Highlights

The operating budget for fiscal year (FY) 2027 is $31,693,004 as shown in **Table 1** below. There is an additional $43,481,406 in capital improvements proposed for a total budget of $75,174,410. This is a significant decrease in total budget expenses when compared to FY 2026. The decrease is primarily in the capital improvements budget due to several projects being delayed or on-hold until the next fiscal year. Also, MSWD staff continues to monitor the impacts of strict State regulations and drought mandates on District operations and will make any necessary changes to the budget as part of the mid-year budget evaluation.

Table 1: Budget Summary by Fiscal Year

	Budget FY 2027**	Budget Change	Budget FY 2026*	Budget Change	Budget FY 2025*
Operating Budget					
Operating Revenue	$25,837,512	$5,220,492	$20,617,020	$288,092	$20,328,928
Operating Expenses	$31,693,004	$3,845,363	$27,847,641	$517,396	$27,330,245
Operating Income	**($5,855,492)**	**$1,375,129**	**($7,230,621)**	**($229,304)**	**($7,001,317)**
Expenses					
Operating Expenses	$31,693,004	$3,845,363	$27,847,641	$517,396	$27,330,245
Capital Improvement Projects	$43,481,406	($26,956,293)	$70,437,699	$25,627,442	$44,810,257
Total Budget	**$75,174,410**	**($23,110,930)**	**$98,285,340**	**$24,080,080**	**$72,140,502**

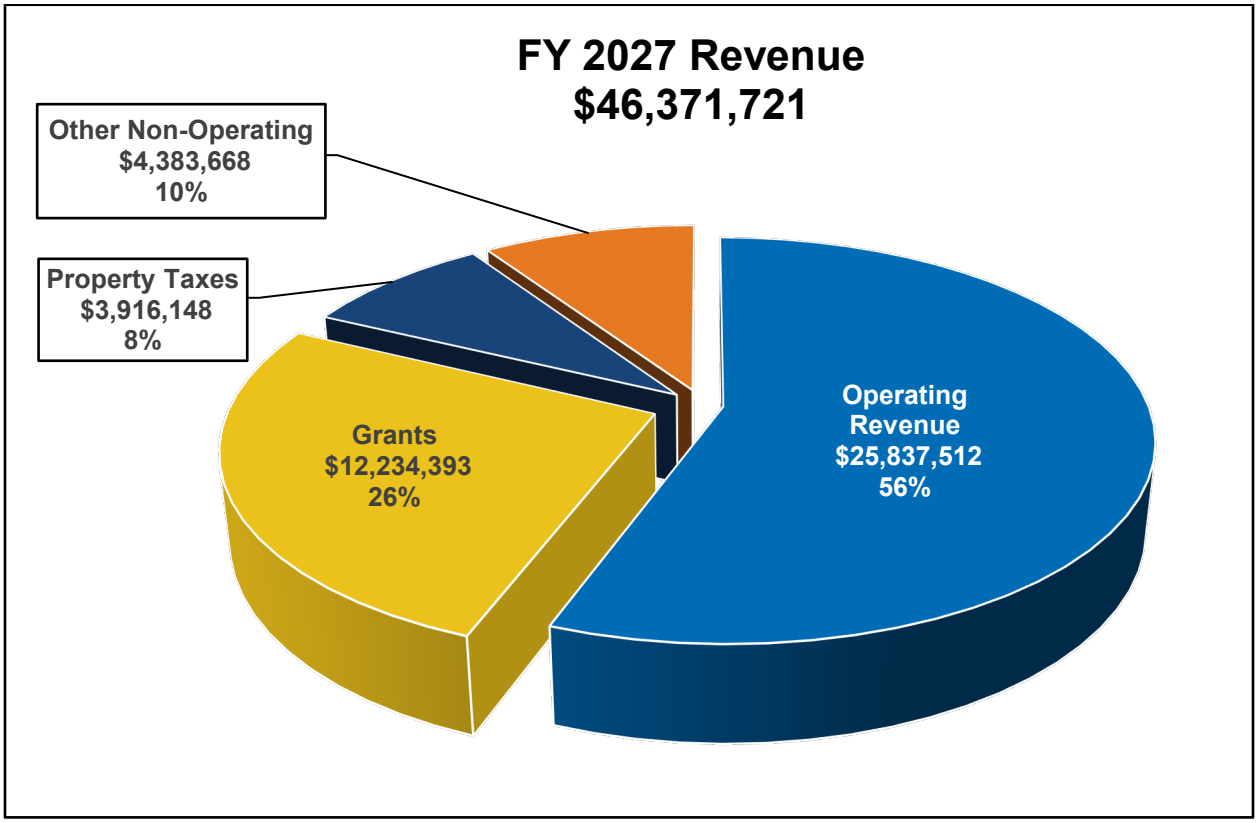
* - Revised after mid-year Board approval.
** - Starting in FY 2027, a new chart of accounts was implemented resulting in differences in categories from previous years.

Revenues

MSWD receives funding from a variety of sources: domestic water sales, wastewater service charges, water and sewer connection fees, property taxes, grants, investment income, rental property, cellular tower leases, solar power generation, and charges for miscellaneous services.

For FY 2027, the Operating Revenue and Non-Operating Revenue budgets amounted to $25,837,512 and $20,454,209, respectively, for a total revenue budget of $46,371,721 as shown in **Figure 1** below. Significant sources of funding are grants expected for capital improvement projects. These state and federal grants have allowed MSWD to adopt a budget that includes capital improvements with no projected fee or rate increases for its services.

Figure 1: Total Revenue by Type for FY 2027

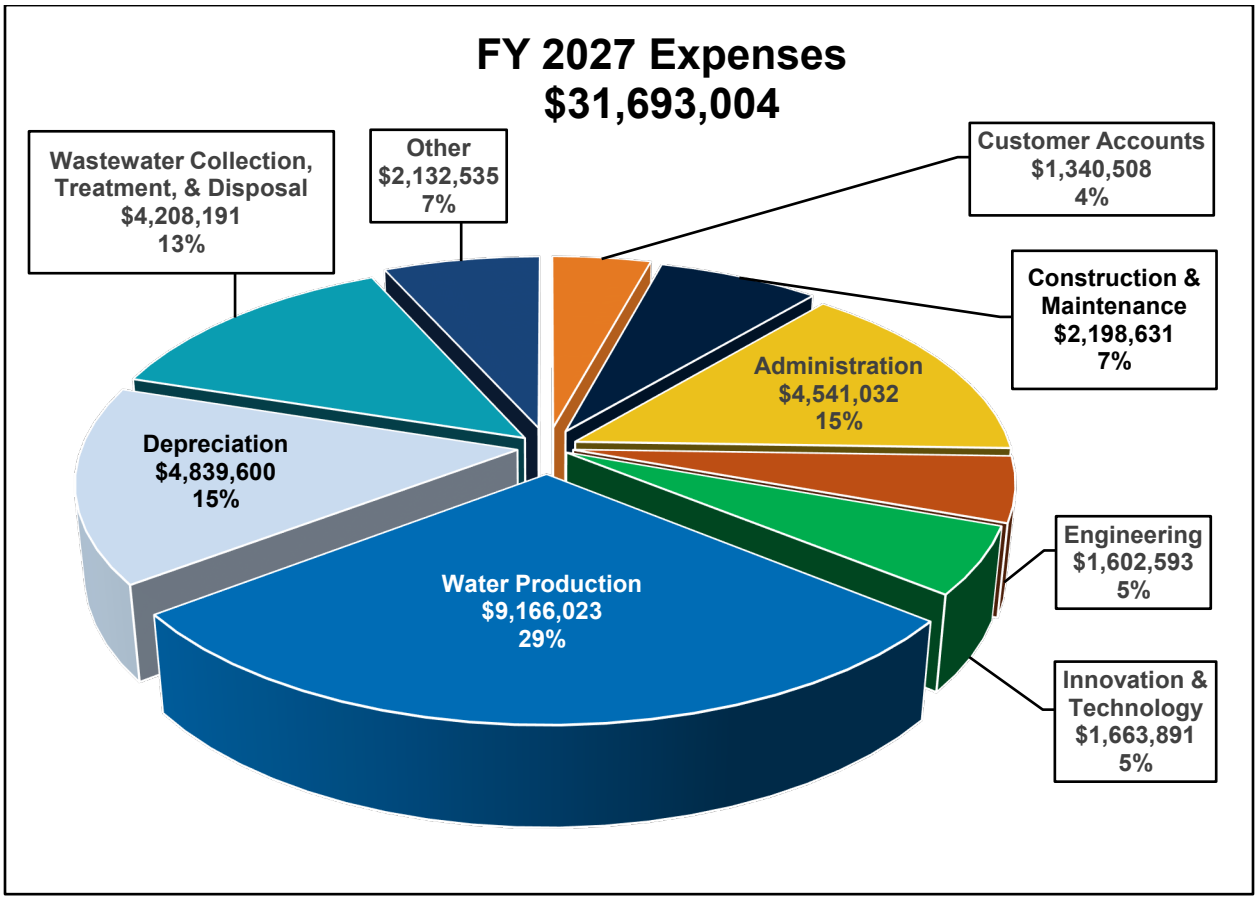


Expenses

Operating expenses for FY 2027 amount to $31,693,004 as shown in **Figure 2** below, representing an increase of $4,064,433 from FY 2026. For FY 2027, two positions were added: Compliance and Safety Officer and Water Production Superintendent. In addition, the increase in operating expenses also reflects an increase of 2.91% Cost of Living Adjustment (COLA) as recommended by the Human Relations Committee and approved by the Board in May 2026.

There is also $43,337,557 in capital improvement expenses made up primarily by the new Administration Building, Well 42, Area M-2 Septic to Sewer Conversion, Well 22 Rehabilitation, and Well 34/35 Intertie. The District continues to prioritize capital improvements that can be covered by grant revenue.

Figure 2: Total Expenses by Type for FY 2027



Financial Stability

MSWD continues to maintain strong reserves through prudent and conservative money management practices, despite a volatile financial market. The District maintains a Capital Reserve Fund of $69,566,962 as of May 31, 2026. While the FY 2027 budget was adopted with no rate increases, future budgets may require rate increases to ensure reserve targets and expenses are met.

Honors and Achievements

MSWD has attained some notable achievements and received significant honors in the past year, including:

California Special District Leadership Foundation

- District of Distinction Award – Platinum
- Certified Special District Manager – Brian Macy
- Essential Leadership Skills Certificate – Brian Macy

Coachella Valley Chapter of the American Public Works Association (APWA)

- Project of Merit – Nancy Wright Regional Water Reclamation Facility

Government Finance Officers Association

- Distinguished Budget Presentation Award

Desert Hot Springs Parade of Lights

- Mayor's Award

California Water Environment Association (CWEA), Colorado River Basin Section (CORBS)

- Small Plant of the Year – Nancy Wright Regional Water Reclamation Facility
- Outreach and Engagement Program of the Year – MSWD's Internship Program with the Desert Hot Springs High School REAL Academy
- Gizmos and Gadgets Award – Nancy Wright Regional Water Reclamation Facility

California Water Environment Association

- 2nd Place Statewide – Small Plant of the Year – Nancy Wright Regional Water Reclamation Facility
- 3rd Place Statewide – Outreach and Engagement Program of the Year – MSWD's Internship Program with the Desert Hot Springs High School REAL Academy

Desert Hot Springs Rotary Big Heart Awards

- Person of the Year – April Scott

35th Annual Berkeley Springs International Water Tasting

- Bronze Medal

The Berkeley Springs award marks our 11th honor for water quality since 1997, solidifying MSWD as the most awarded water agency for taste in the world. This requires us to keep up with new technology and ever-changing state and federal regulations. New state standards for Chromium-6 will require MSWD to treat some of our wells for this naturally occurring substance in the coming years. In preparation, MSWD has already developed a Compliance Plan and has held multiple community meetings in the past year.



In Conclusion

As we keep an eye toward the future, our mission remains the same: to Provide, Protect and Preserve our most precious resource… water. This budget addresses the priorities established for FY 2027 to continue to meet customer needs and provide exceptional water and wastewater services.

I would like to express my appreciation to the management team and staff who worked diligently in developing a budget that reflects the needs of MSWD and its customers. A special note of thanks to the Finance and Accounting Departments for their excellence in gathering, analyzing, and presenting information clearly and accurately. We are confident that this budget reflects the policies and direction of the Board of Directors and provides the financial plan for a successful year.

Respectfully submitted,

Brian E. Macy
General Manager



BUDGET RESOLUTIONS

2027

MSWD
Mission Springs Water District

Mission Springs Water District

66575 Second Street
Desert Hot Springs, CA 92240
www.mswd.org
760-329-6448

BUDGET RESOLUTIONS

Operating & Capital Budget

Appropriations Limit

Classification & Compensation Plan



PROFILE OF THE MISSION SPRINGS WATER DISTRICT

2027

MSWD
Mission Springs Water District

Mission Springs Water District

66575 Second Street
Desert Hot Springs, CA 92240
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PROFILE OF THE MISSION SPRINGS WATER DISTRICT

A Brief History

While prospecting for water, early homesteaders in the desert discovered the hot springs that made this area famous. It was not until 1940, however, that the first subdivisions were established and L.W. Coffee started the village he called Desert Hot Springs.

The critical need for freshwater led residents to form a mutual water company, which eventually proved unsatisfactory. Later, a privately-owned utility, called the Desert Hot Springs Mutual Water Company, acquired its assets. But this too failed and widespread dissatisfaction led local citizens to form a publicly-owned water district.

Formation

By 1953, an election swept the new Desert County Water District into existence with a vote of 246 to 9. The new District began with 100,000 feet of pipelines, five water wells, and two reservoirs. It covered one square mile.

The District was later renamed the Mission Springs Water District (MSWD) and expanded rapidly. It absorbed parts of the Coachella Valley County Water District, the West Palm Springs Village, and San Gorgonio Mutual Water Company systems. Today, it boasts more than 1.25 million feet of pipelines, 13 water wells, and 24 reservoirs, serving an area of 135 square miles.

As early as 1954, local citizens petitioned for sewer service. The cost, however, was prohibitive. But growth brought an overload to the septic systems and health hazards to the community. MSWD built the Alan L. Horton Wastewater Treatment Plant in 1972, and it has expanded four times to a treatment capacity of 2.0 million gallons of wastewater per day.

Government



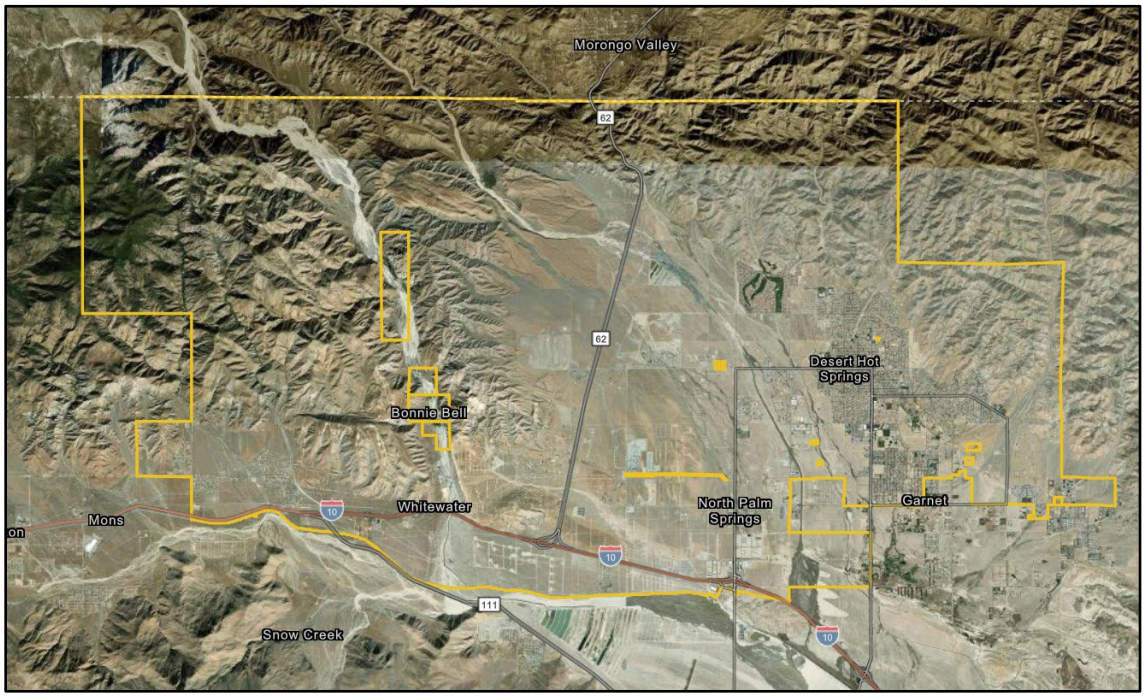
Mission Springs Water District (MSWD) is County Water District under Subsection 30000 et seq. of the California Water Code and was incorporated in 1953. MSWD is governed by a five-member, publicly elected Board of Directors. Directors are elected concurrent with the general elections every even-numbered year in their specific division. Director's terms are four years. The election of Directors alternates between three seats and two seats, respectively, every two years.

MSWD has statutory authority over water supply and provides water services to residential and commercial customers.

Service Area

Located in Riverside County, California, MSWD initially covered an area of one square mile in 1953. Today, MSWD covers an area of about 135 square miles including the City of Desert Hot Springs, and the unincorporated areas of North Palm Springs, Whitewater, and Bonnie Bell serving a population of over 44,000 residents as shown in **Figure 3**.

Figure 3: Mission Springs Water District Service Area



District Office

The Mission Springs Water District Main Office, as shown in **Figure 4**, is located at 66575 Second Street, Desert Hot Springs, California 92240.

Figure 4: Mission Springs Water District Main Office



Water Production & Distribution

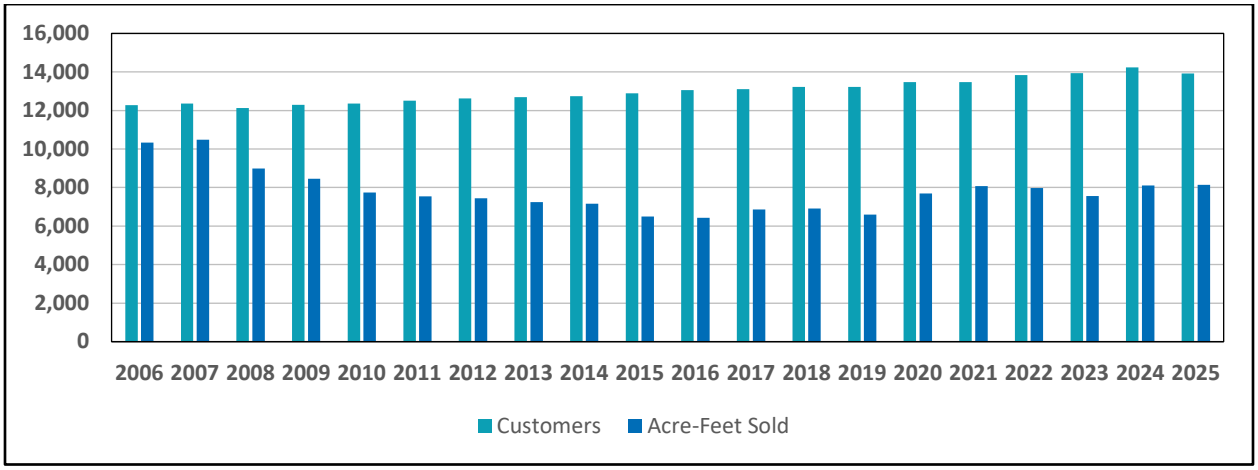
Within the initial one square mile covered by MSWD, it began with about 100,000 feet of pipelines, five water wells, and two reservoirs. MSWD expanded rapidly, and absorbed parts of the Coachella Valley County Water District, the West Palm Springs Village and San Gorgonio Mutual Water Company systems, and the Dos Palmas Mutual Water Company. Today, MSWD includes more than 414 miles of pipelines, 15 water wells, 12 booster stations, and 24 reservoirs.

The distribution system includes three separate and distinct community systems including West Palm Springs Village, Village Crest, and Desert Hot Springs. The largest system is the greater Desert Hot Springs service area.

MSWD's sole source of supply for its 14,231 water accounts is groundwater. MSWD produces groundwater from the Mission Creek Subbasin, San Gorgonio Pass Subbasin, and Garnet Hill Subarea of the Indio Subbasin, in the greater Coachella Valley Groundwater Basin. The quality of the groundwater is remarkably high and has been awarded an unprecedented 11 medals, including best tasting municipal water in the world, at the International Water Tasting Competition in Berkely Springs, West Virginia.

For over 70 years, MSWD has been managing groundwater through conservation, groundwater protection projects, and general stewardship of its multi-award-winning water resource. The District is, and has always been, committed to a sustainable future both in water supply and finance. As the state requires ongoing, and possibly increased regulations, through Conservation and the Sustainable Groundwater Management Act (SGMA), MSWD has responded to ensure compliance both now and in the future. Over the last 20 years, MSWD has already witnessed the beneficial effects of these efforts as total annual water consumption decreased while the total number of customers has increased as shown in **Figure 5** below.

Figure 5: Annual Water Consumption (AF) vs. Total Number of Customers



Wastewater Collection, Treatment, & Disposal

MSWD currently serves 10,021 sewer connections and treats about 2.0 million gallons per day (MGD) prior to discharging effluent in an environmentally sustainable manner. Wastewater is treated at the Horton Wastewater Treatment Plant, the Desert Crest Wastewater Treatment Plant, and the newly constructed Nancy Wright Regional Water Reclamation Facility that became operational in April 2025. This facility will serve as the long-term central wastewater treatment and reclamation facility for the region.

The District's Groundwater Quality Protection Plan (GQPP) began in 1996 and has been highly successful to date. Over $22 million of grant funds have been secured by the District for this program which has made over 4,500 parcels sewer service ready. This includes the abatement of over 2,800 septic tanks and the installation of over 33 miles of sewer lines. The pursuit of these grant funds continues today for the disadvantaged communities served by the District. The GQPP is ongoing and a significant part of the FY 2027 capital improvement program.



Water Conservation

In 2009, the California legislature passed SBx7-7 which required a statewide 20% reduction in urban per capita water use by 2020. It required that urban water retail suppliers determine baseline water use and set reduction targets according to specified requirements and required agricultural water suppliers to prepare plans and implement efficient water management practices. A combination of a population and land-use-based demand forecasting was used to project future demands in the District's service area. Based on the District's evaluation of years 1997 to 2006, the 10-year maximum per capita water use was 289.7 gallons per capita per day. In addition, based on the District's evaluation of years 2004 to 2008, the 5-year maximum per capita water use was 291.2 gallons per capita per day. To achieve a 20% reduction by 2020 as written under SBx7-7, the average per capita demand target was set at 234.9 gallons per capita per day.

From 2012 to 2017, California experienced historic drought conditions. In April 2015 the State Water Board set conservation standards for each water supplier, and based on this reduction, the District was required to set a conservation target of 32% as compared to 2013. On August 18, 2014, the Stage 1A-Drought Contingency Plan was implemented by the District. On April 27, 2015, the Stage 2-Threatened Water Supply Shortage was implemented by the District. During this time, the District also implemented a toilet replacement rebate program, a turf replacement rebate program, a conservation kit

program, and multiple conservation educational programs for customers. On April 7, 2017 the Governor issued an Executive Order lifting the emergency drought declaration. By 2020, the District's maximum per capita water use was 189 gallons per capita per day, far exceeding the targeted reduction goal.

On July 19, 2021, the District adopted a Water Shortage Contingency Plan (WSCP) in conjunction with a Regional Urban Water Management Plan. In the Winter months of 2022, drought conditions in Northern California prompted the Governor to issue an Executive Order requiring the State Water Board to design and adopt emergency water conservation regulations. On May 24, 2022, the State Water Board adopted regulations that require urban water supplies to implement Level 2, at a minimum, of their Water Shortage Contingency Plans, as well as other measures. However, the regulations stop short of the one-size-fits-all philosophy by recognizing local water supply conditions, investments and conservation efforts by providers.

Making Conservation a California Way of Life is a new way of managing urban water use. The State Water Board will consider a regulation that establishes unique efficiency goals for each Urban Retail Water Supplier in California and provides those suppliers flexibility to implement locally appropriate solutions. As part of the state's all-of-the-above strategy to expand storage, develop new water supplies, and promote more efficient water use, this regulation seeks to cultivate long-term practices that help communities adapt to California's ongoing water challenges. The proposed regulation will lessen the need for the emergency water use reduction targets that were important in recent droughts. As part of the proposed regulation, urban retail water suppliers, not individual households or businesses, will be held to "urban water use objectives." An urban water use objective is the sum of standard-based budgets for a subset of water uses, such as residential outdoor use.





STATISTICAL SECTION

2027

MSWD
Mission Springs Water District

Mission Springs Water District

66575 Second Street
Desert Hot Springs, CA 92240
www.mswd.org
760-329-6448

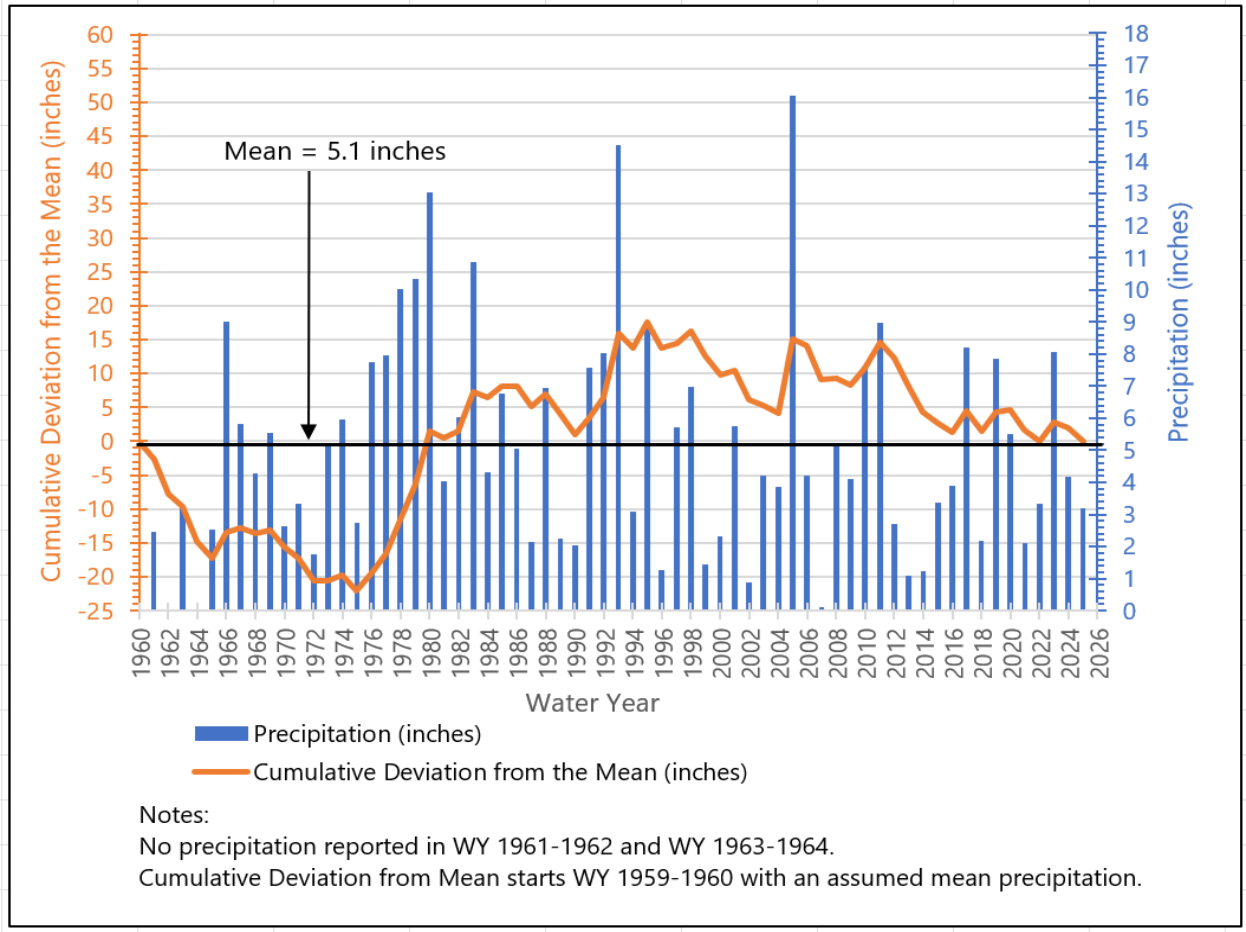
STATISTICAL SECTION

Climate

Average high temperatures exceed 100 degrees Fahrenheit (°F) in the months of June July, August, and September. Based on National Oceanic and Atmospheric Administration (NOAA) records from 1991 to 2020, average high temperatures in May and October are in the low to mid 90s°F and average high temperatures in the months of November through April range from 69°F to 87°F. Average low temperatures range from 46°F in December to 80°F in August.

Annual precipitation from Water Year (WY) 1960-1961 to WY 2024-2025 for the Riverside County Flood Control and Water Conservation District station at Desert Hot Springs is shown in **Figure 6** below. The mean annual precipitation for the water year over the period of record was 5.1 inches, with a standard deviation of 3.4 inches. The maximum precipitation was just over 16 inches in WY 2004-2005.

Figure 6: Annual Precipitation in Desert Hot Springs, CA



Demographics

Table 2 shows key demographics regarding residents of Riverside County, California.

Table 2: Key Demographics by Year for Riverside County, California

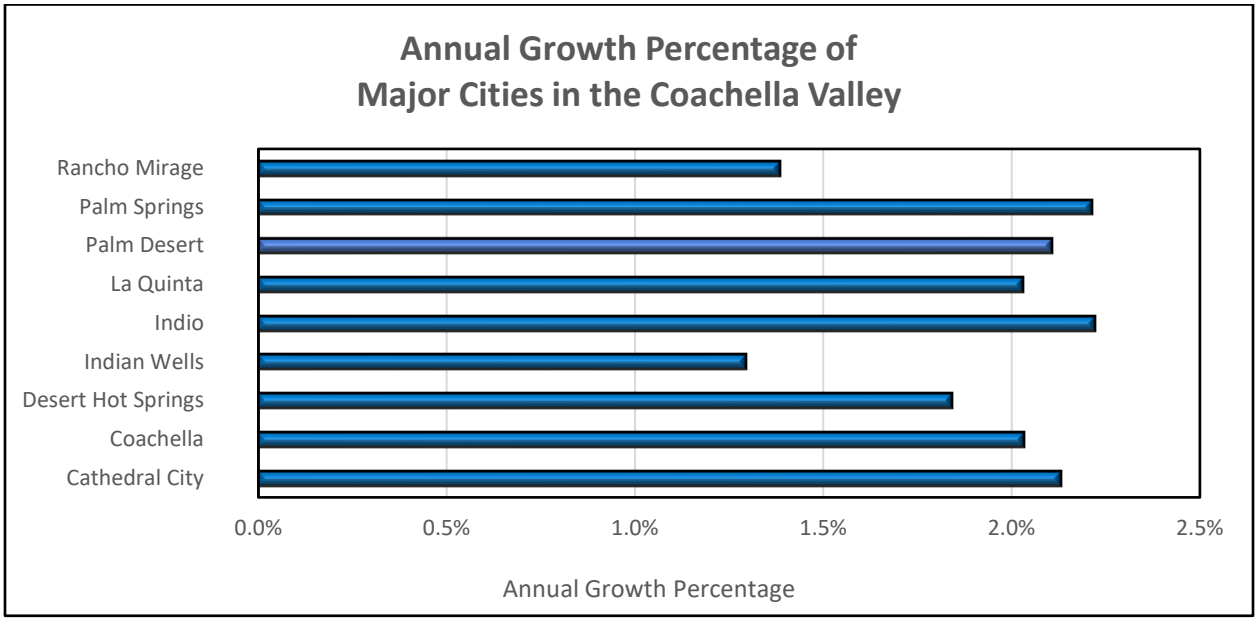
Calendar Year	Population[1]	Personal Income [1]	Per Capita Personal Income[1]	Median House Value[2]	Unemployment Rate[3]
2015	2,347,828	$55,315,000	$21,900	$279,500	6.7%
2016	2,384,783	$59,569,000	$22,924	$312,700	6.1%
2017	2,415,955	$56,801,939	$23,511	$329,600	5.2%
2018	2,440,124	$60,522,468	$24,803	$352,700	4.4%
2019	2,442,304	$64,686,882	$26,486	$364,900	4.2%
2020	2,454,453	$68,958,268	$28,095	$384,400	9.9%
2021	2,435,525	$72,924,895	$29,942	$368,100	7.3%
2022	2,439,234	$77,289,878	$31,686	$366,200	4.2%
2023	2,442,378	$85,897,514	$35,169	$365,000	4.8%
2024	2,495,640	$91,043,251	$36,480	$380,000	5.3%

Source:
1. California State Department of Finance
2. Riverside County Recorder
3. California Employment Development Department

Notes: Data shown represents the entire County of Riverside

Figure 7 shows annual growth rates for cities in the Coachella Valley. Located within the District, the City of Desert Hot Springs has an annual growth rate of approximately 1.8%.

Figure 7: Annual Growth Percentage of Major Cities in the Coachella Valley

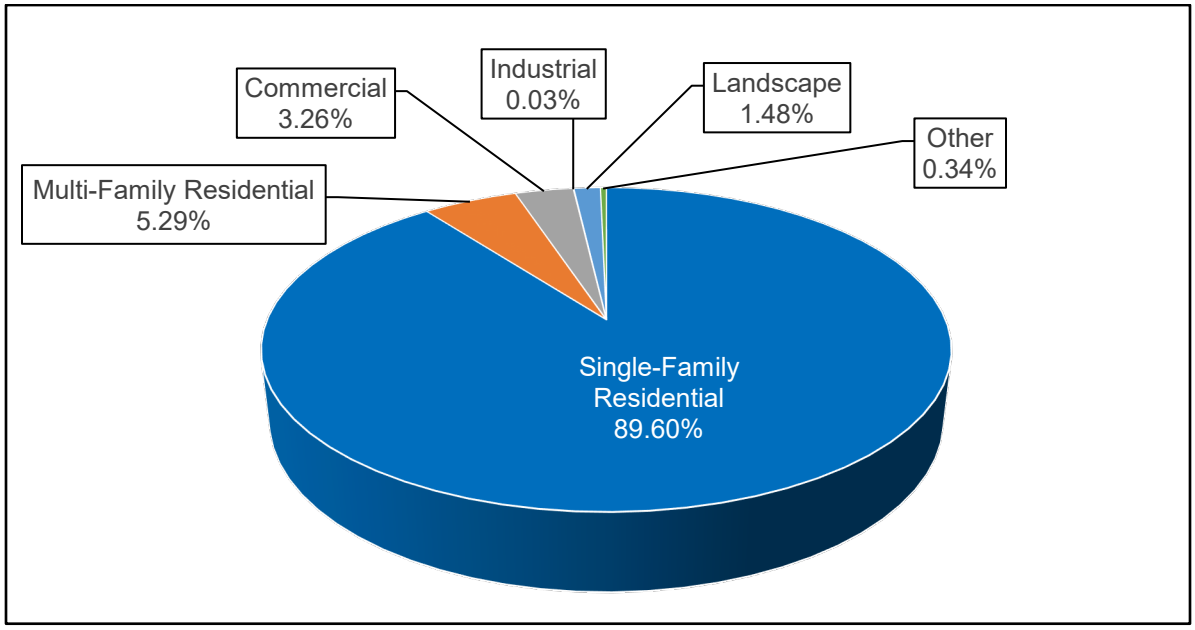


Source: State of California, Department of Finance, Demographic Research Unit & U.S. Census Bureau

Customer Base

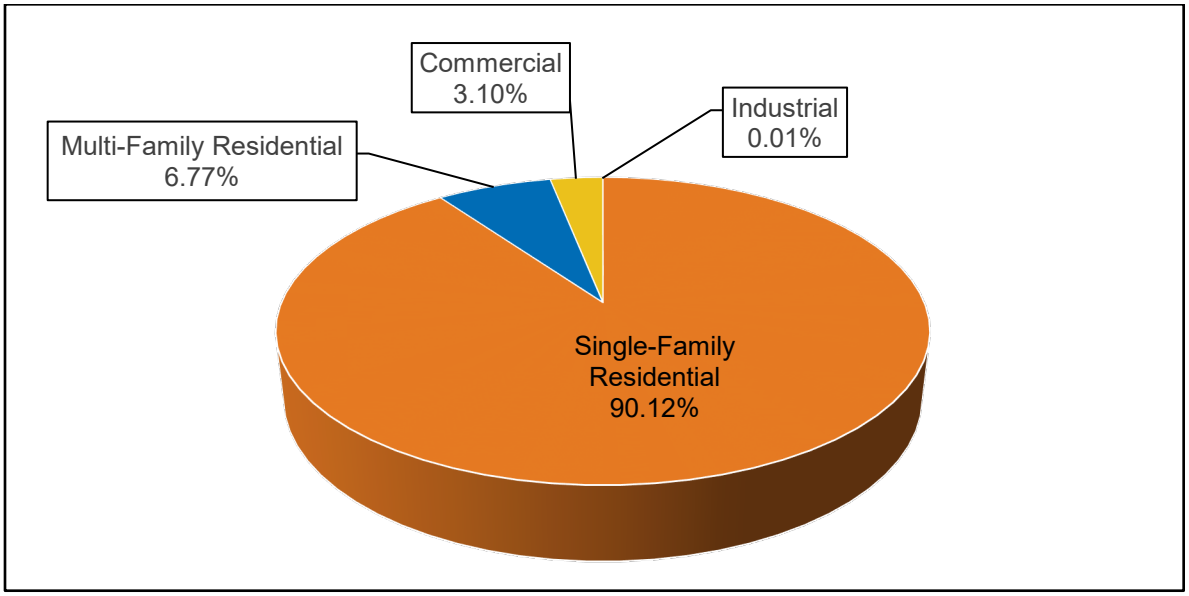
Approximately 90% of the District's water and sewer service customer accounts are single-family residential, as shown in **Figure 8** and **Figure 9** respectively, and most are located within the City of Desert Hot Springs, California.

Figure 8: Water Service Accounts by Type



Source: Mission Springs Water District Billing System

Figure 9: Sewer Service Accounts by Type



Source: Mission Springs Water District Billing System

Ten Largest Water and Sewer Customers

The District has a diverse customer base. The largest ten water service customers by consumption volume represented only 11.06% of the total water sales revenue as shown in **Table 3**, and the largest ten sewer service customers represented 34.4% of the total sewer revenue as shown in **Table 4**, for FY 2025.

Table 3: Ten Largest Water Service Customers

Rank	Water Service Customer	FY 2025 Revenues	Percentage of Total FY 2025 Revenues
1	Palm Springs Unified School District	$300,120.72	3.26%
2	Palm Springs Unified School District	$108,433.38	1.18%
3	Henry Baghdady	$103,929.00	1.13%
4	Blackstar Industrial Properties, LLC	$85,353.60	0.93%
5	Breit Hidden Springs MHC, LLC	$78,626.71	0.85%
6	Palm Springs Unified School District	$76,983.24	0.84%
7	JMI General Engineering Contractor	$73,157.12	0.80%
8	Two Bunch Palms, Bliss, LLC	$67,063.57	0.73%
9	Morongo Industrial Owners Inc	$63,036.00	0.69%
10	Palm Springs Unified School District	$60,521.60	0.66%
	FY 2025 Top Ten Total	**$1,017,224.94**	**11.06%**
	FY 2025 District Total	**$9,198,092.16**	**100.00%**

Table 4: Ten Largest Sewer Service Customers

Rank	Sewer Service Customer	FY 2025 Revenues	Percentage of Total FY 2025 Revenues
1	Sky Haven Homeowners Inc	$74,581.50	6.64%
2	Mission Lakes CC Condos HOA	$64,078,32	5.71%
3	Jennifer Chen	$46,313.13	4.12%
4	Morongo Equity Partners III, LLC	$44,743.00	3.98%
5	Vons Co #2177 V #8539	$33,270.86	2.96%
6	Morongo Equity Partners III, LLC	$28,958.72	2.58%
7	Michael Bickford	$28,413.23	2.53%
8	Desert Inn Hotel/Spa	$23,049.41	2.05%
9	Stater Bros. Mkt #84	$22,521.38	2.01%
10	Quick Quack Car Wash	$20,386.05	1.82%
	FY 2025 Top Ten Total	**$386,315.60**	**34.40%**
	FY 2025 District Total	**$1,123,087.31**	**100.00%**

Source: Mission Springs Water District Billing System

Ten Largest Property Taxpayers

Table 5 below is a listing of the top ten property taxpayers located within the District.

Table 5: Ten Largest Property Taxpayers

Rank	Taxpayer	FY 2025 Total Taxable Assessed Value	Percentage of FY 2025 Total District Taxable Assessed Value
1	Desert Peak Energy Storage	$377,288,044	7.11%
2	Sentinel Energy Center LLC	$293,100,000	5.53%
3	Mesa Wind Power Corporation	$78,201,694	1.47%
4	IIP – California 6	$62,030,769	1.17%
5	AM Wind Repower	$60,718,585	1.14%
6	Windpower Partners 1993 LP	$47,918,024	0.90%
7	Mountain View Power Partners LLC	$41,134,189	0.78%
8	IIP – California 2	$36,600,829	0.69%
9	Dillon Wind LLC	$27,053,237	0.51%
10	Kings Garden Inc	$26,803,497	0.51%
	FY 2025 Top Ten Total	**$1,050,848,868**	**19.82%**
	FY 2025 County Total	**$5,302,949,388**	**100.00%**

Source: County of Riverside Combined Tax Rolls and the SBE Nonunitary Tax Roll

Ten Largest Employers in Riverside County

Table 6 below is a listing of the top ten employers within the County of Riverside, California where the District's service area is located.

Table 6: Ten Largest Employers in Riverside County

Rank	Employer	Number of FY 2025 Employees	Percentage of Total FY 2025 County Employment
1	County of Riverside	25,345	2.35%
2	Amazon	14,317	1.33%
3	State of California	8,398	0.75%
4	Walmart	7,523	0.67%
5	Riverside Unified School District	6,562	0.59%
6	Moreno Valley Unified School District	6,306	0.56%
7	Kaiser Permanente Riverside Medical Center	5,817	0.52%
8	Stater Bros.	5,145	0.46%
9	University of California, Riverside	5,137	0.46%
10	Eisenhower Medical Center	4,971	0.44%
	FY 2025 Top Ten Total	**89,521**	**7.98%**
	FY 2025 County Total	**1,121,600**	**100.00%**

Source: County of Riverside Economic Development Agency



ORGANIZATIONAL STRUCTURE

2027

MSWD
Mission Springs Water District

Mission Springs Water District

66575 Second Street
Desert Hot Springs, CA 92240
www.mswd.org
760-329-6448

ORGANIZATIONAL STRUCTURE

Divisions and Departments

The Board of Directors set the overall organization-wide goals that support the District's mission and strategic plan. The departments are the link that converts planning into action. Departments are overseen by a manager, and the departments are organized into divisions which are overseen by a director. There are currently 59 funded full-time equivalent (FTE) positions reflected in the current budget as shown in **Table 7**.

Table 7: Organizational Divisions, Departments, and FY 2027 FTEs

Division	Department	FY 2027 FTEs
Executive	Board of Directors	(5)
	Office of the General Manager	2
Administration	Administration	5
	Customer Service	4
	Human Resources	2
	Innovation & Technology	1
Engineering	Engineering & Water Resources	6
Finance	Accounting	5
	Finance	1
Operations & Maintenance	Construction & Maintenance	10
	Field Services	4
	Operations Administration	6
	Water Production	4
	Wastewater Collection	2
	Wastewater Treatment & Disposal	7
	Total FTEs	**59**

Note: Board of Directors are not included in the FTE count for the District.



Summary of Authorized Positions

District management is always analyzing, reviewing, and changing the organizational structure to meet current operational and fiscal needs. These ongoing efforts include positional/staffing changes, improving corporate culture, greater integration of its mission, vision, and values of the organization, a customer experience overhaul, and streamlining of policies and procedures.

For FY 2026, three new positions were added: Construction Inspector, Construction & Maintenance Supervisor, and Administrative Assistant I/II. Additionally, three positions were repurposed: the Lead WWTP Operator changed to WWTP Supervisor, the Lead Water Production Operator changed to Water Production Supervisor, and the Field Operation Superintendent changed to the Water Distribution Superintendent.

For FY 2027, two new positions were added: Compliance and Safety Officer and Water Distribution Superintendent. The Water Distribution Superintendent position was added for succession planning purposes prior to an impending retirement. Additionally, two positions were repurposed: Water Production Operator I/II to Lead Water Production Operator, and the WWTP Supervisor to the Lead WWTP Operator. These changes resulted in 59 funded full-time equivalent (FTE) positions and are reflected in the current budget as shown in **Table 8**.



Table 8: Summary of Authorized Positions by Fiscal Year

Budgeted Division, Department, & Title	FY 2025 Adopted	FTE Changes	FY 2026 Adopted	FTE Changes	FY 2027 Adopted
EXECUTIVE					
Office of the General Manager:					
General Manager	1	0	1	0	1
Assistant General Manager	1	0	1	0	1
Sub-Total Budgeted FTEs	**2**	**0**	**2**	**0**	**2**
ADMINISTRATION					
Administration:					
Programs & Public Affairs Specialist	1	0	1	0	1
Business Analyst	1	0	1	0	1
Contracts Analyst	1	0	1	0	1
Executive Assistant	1	0	1	0	1
GIS Specialist	0	1	1	0	1
Administrative Assistant	1	-1	0	0	0
Sub-Total Budgeted FTEs	**5**	**0**	**5**	**0**	**5**
Customer Service:					
Customer Service Supervisor	1	0	1	0	1
Senior Customer Service Representative	1	0	1	0	1
Customer Service Representative I/II	2	0	2	0	2
Sub-Total Budgeted FTEs	**4**	**0**	**4**	**0**	**4**
Human Resources:					
Human Resources Manager	1	0	1	0	1
Administrative Assistant I/II	0	1	1	0	1
Sub-Total Budgeted FTEs	**1**	**1**	**2**	**0**	**2**
Innovation & Technology:					
Innovation & Technology Manager	1	0	1	0	1
Sub-Total Budgeted FTEs	**1**	**0**	**1**	**0**	**1**



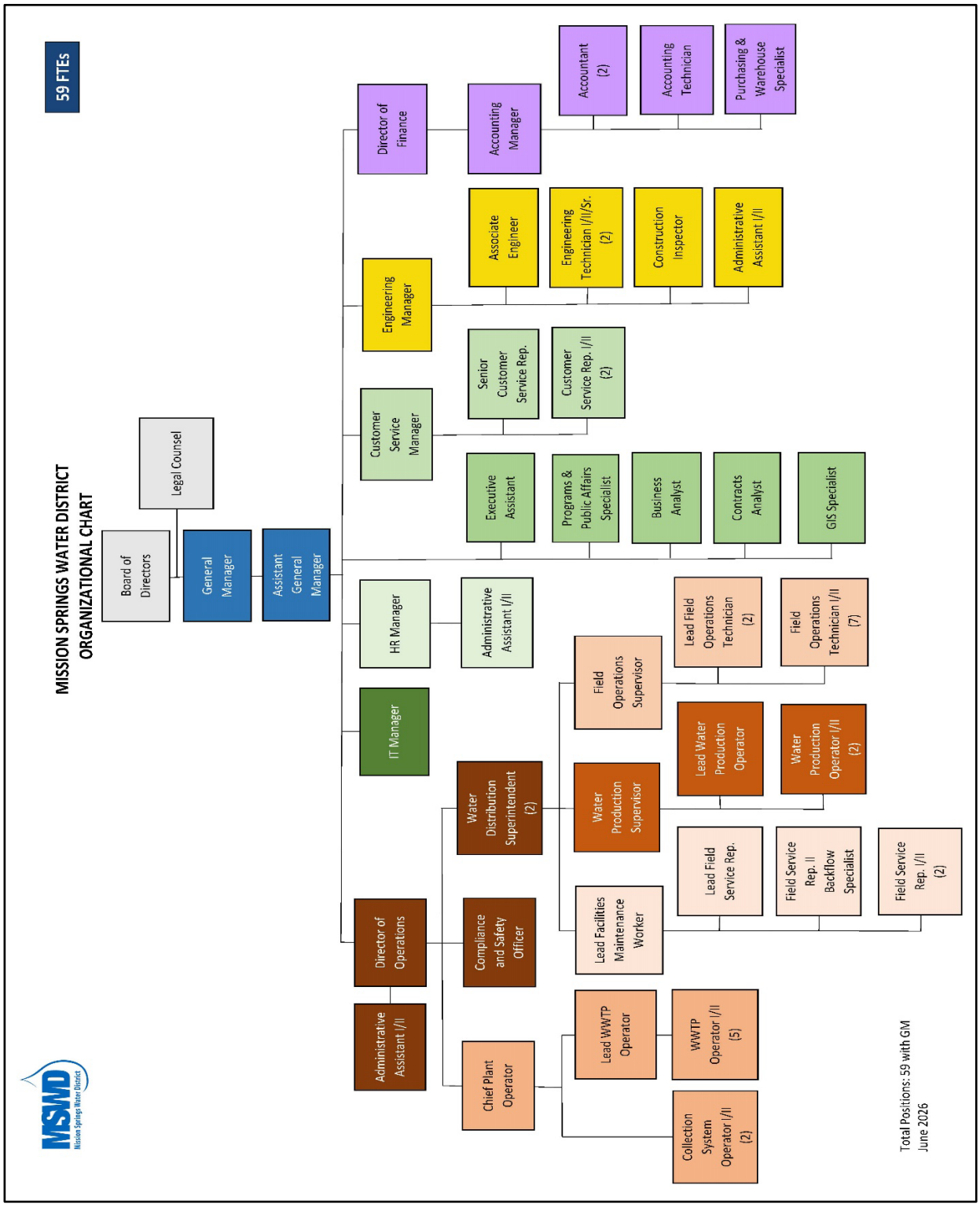
Budgeted Division, Department, & Title	FY 2025 Adopted	FTE Changes	FY 2026 Adopted	FTE Changes	FY 2027 Adopted
ENGINEERING					
Engineering & Water Resources:					
Engineering Manager	1	0	1	0	1
Associate Engineer	1	0	1	0	1
Engineering Technician I/II/Sr.	2	0	2	0	2
Construction Inspector	0	1	1	0	1
Administrative Assistant I/II	0	1	1	0	1
Office Specialist I/II	1	-1	0	0	0
GIS Specialist	1	-1	0	0	0
Sub-Total Budgeted FTEs	**6**	**0**	**6**	**0**	**6**
FINANCE					
Finance:					
Director of Finance	1	0	1	0	1
Sub-Total Budgeted FTEs	**1**	**0**	**1**	**0**	**1**
Accounting:					
Accounting Manager	1	0	1	0	1
Accountant	1	1	2	0	2
Accounting Technician	2	-1	1	0	1
Purchasing and Warehouse Specialist	1	0	1	0	1
Sub-Total Budgeted FTEs	**5**	**0**	**5**	**0**	**5**



Budgeted Division, Department, & Title	FY 2025 Adopted	FTE Changes	FY 2026 Adopted	FTE Changes	FY 2027 Adopted
OPERATIONS & MAINTENANCE					
Operations Administration:					
Director of Operations	1	0	1	0	1
Water Distribution Superintendent	0	1	1	1	2
Lead Facilities Maintenance Worker	1	0	1	0	1
Compliance and Safety Officer	0	0	0	1	1
Administrative Assistant I/II	0	1	1	0	1
Sub-Total Budgeted FTEs	**2**	**2**	**4**	**2**	**6**
Construction & Maintenance:					
Field Operations Superintendent	1	-1	0	0	0
Field Operations Supervisor	0	1	1	0	1
Lead Field Operations Technician	2	0	2	0	2
Field Operations Technician I/II	7	0	7	0	7
Sub-Total Budgeted FTEs	**10**	**0**	**10**	**0**	**10**
Field Services:					
Lead Field Service Representative	1	0	1	0	1
Field Service Representative II/ Backflow Specialist	1	0	1	0	1
Field Service Representative I/II	2	0	2	0	2
Sub-Total Budgeted FTEs	**4**	**0**	**4**	**0**	**4**
Water Production:					
Water Production Supervisor	1	0	1	0	1
Lead Water Production Operator	0	0	0	1	1
Water Production Operator I/II	3	0	3	-1	2
Sub-Total Budgeted FTEs	**4**	**0**	**4**	**0**	**4**
Wastewater Treatment & Disposal:					
Chief Plant Operator	1	0	1	0	1
WWTP Supervisor	0	1	1	-1	0
Lead WWTP Operator	1	-1	0	1	1
WWTP Operator I/II	5	0	5	0	5
Sub-Total Budgeted FTEs	**7**	**0**	**7**	**0**	**7**
Wastewater Collections:					
Lead Collection System Operator	1	-1	0	0	0
Collection System Operator I/II	1	1	2	0	2
Sub-Total Budgeted FTEs	**2**	**0**	**2**	**0**	**2**
Total Budgeted FTEs	**54**	**0**	**57**	**2**	**59**

Organizational Chart

Figure 10: MSWD Organizational Chart





STRATEGIC PLANNING

2027

MSWD
Mission Springs Water District

Mission Springs Water District

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Desert Hot Springs, CA 92240
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STRATEGIC PLANNING

Strategic Plan

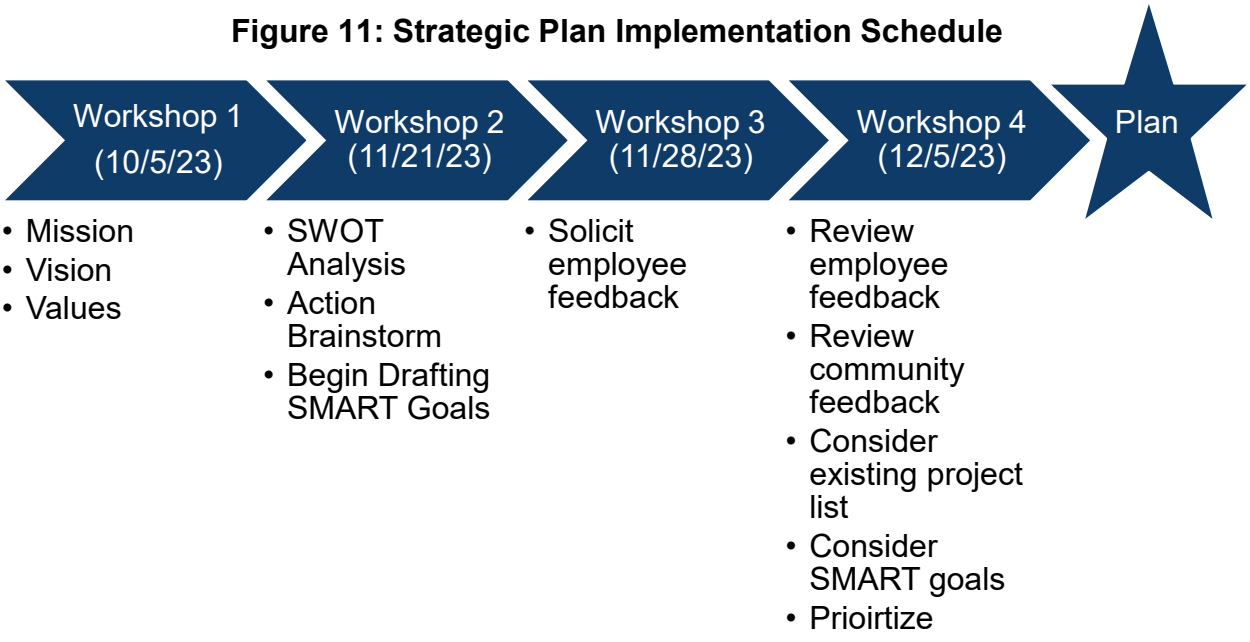
Mission Springs Water District's (MSWD's) 2024 Strategic Plan outlines a focused roadmap for efficient water management and community service. Building on a 70-year legacy, the plan aligns with MSWD's mission to provide, protect, and preserve water resources. In essence, the MSWD Strategic Plan is a forward-looking blueprint that underscores the District's commitment to responsible water management and community service, guided by a clear mission, vision, and set of values.

The MSWD Strategic Plan serves as the overarching guide, ensuring that every action, activity, and decision aligns with our vision and upholds our mission. This framework is designed to enhance the efficiency of leadership, management, and overall District operations. A strategic plan stands as the pinnacle planning document for our organization. It establishes the foundation upon which all other organizational, operational, financial, and resource planning effort are built, emphasizing it paramount significance.

Strategic Plan Implementation

The MSWD Strategic Plan for 2024 builds upon the achievements of the 2017 plan, considering the rich history, current strengths, weaknesses, opportunities, and threats. It is not merely a document but a dynamic action plan that propels MSWD forward, ensuring our continued success in providing, protecting, and preserving water resources. The overall process of the development of our Strategic Plan included four workshops with distinct purposes as described in **Figure 11** below.

Figure 11: Strategic Plan Implementation Schedule



Mission Statement, Vision, & Core Values

In 2023, MSWD initiated a formal strategic planning effort that builds on the achievements of the 2017 plan by developing a Mission Statement, an accompanying Vision Statement, and a set of Core Values for the District.

Mission of Mission Springs Water District

Our Mission at MSWD encapsulates the core function and intrinsic value that defines our existence. It is a simple yet robust statement, articulating our fundamental purpose and the reasons that drive our daily endeavors.

MSWD has one simple mission: We provide, protect, and preserve our most precious resource…Water!

Vision of Mission Springs Water District

Our Vision at MSWD serves as a compass, charting our course toward a future state that reflects our aspirations and commitment to excellence. It encapsulates not just what we aim to become but envisions the success we strive for and the positive transformations we aim to bring to all those we serve.

Trust: Our vision at MSWD is to build a trusting community through open communication, accountability, collaboration, and mutual respect among the Board of Directors, staff, and our customers.

Employees: Our vision for MSWD employees is to cultivate a workplace where each person is empowered as a steward of our community's water, fostering a culture of excellence, innovation, and service in alignment with our shared mission.

Customers: Our vision for MSWD is to deliver reliable, sustainable, and community-focused service to our customers, ensuring you can trust us to meet your water needs while contributing to a healthier, vibrant community.

Environment: Our vision for the natural environment in MSWD is harmonious coexistence through responsible management, aiming to be a model for environmental stewardship and sustainable practices, ensuring the health and vitality of our local ecosystems.

Public Health: Our vision for MSWD is to serve as a cornerstone of community well-being by providing reliable and safe water services that protect and support a healthy and thriving community.

Values of Mission Springs Water District

Our Values at MSWD stand as the bedrock of our organization, shaping how we work and defining who we are. These guiding principles not only clarify our identity, but also serve as a compass for our purpose, culture, and decision-making processes.

Accountability: We are accountable for our actions, committed to transparency, integrity, and rectifying mistakes, ensuring the District's operations are conducted with honesty and responsibility.

Leadership: Leadership is a core value for us, representing a commitment to setting a positive example, inspiring others, and fostering innovation to address water management challenges and drive progress in our community.

Professionalism: We maintain the highest standards of competence, ethics, and integrity in our actions, delivering water services with accountability and respect for the community, ensuring professionalism and expertise in every operation.

Service: We ensure access to clean, reliable water and cultivate a positive, supportive, and respectful environment for our staff, recognizing that community well-being and employee satisfaction are integral to achieving our mission.

SWOT Analysis, Actions, & Employee Feedback

MSWD's Board and staff conducted a Strengths, Weaknesses, Opportunities, and Threats (SWOT) analysis, assessing internal strengths and weaknesses, along with external opportunities and threats.



Following SWOT analysis, the Strategic Plan Team separated into groups to brainstorm action steps that could be taken. Four groups worked on developing lists of ideas, then each presented their ideas to the full team.

MSWD hosted an "all hands" meeting where employees were invited to learn more about the Strategic Plan and provide feedback. Several changes were made to the vision and values as a result.

Based on the SWOT analysis, the actions, and employee feedback, staff and the MSWD Board identified key themes that are essential for our sustainable growth and effective service delivery. The Board also considered current and ongoing projects identified in the 2017 Strategic Plan. Through this discussion several themes emerged that strategically aligned with our strengths with opportunities, address weaknesses, and mitigate threats. Serving as a compass for decision-making and resource allocation, they guide our operational enhancements, allowing us to fulfill our mission. This prioritization ensures a focused and targeted approach with optimal impact. As SMART goals were developed, they were categorized into themes.

SMART Goals

Specific, Measurable, Achievable, Realistic, and Timely (SMART) goals represent the tangible outcomes and achievements we aspire to accomplish. Serving as beacons of

direction and purpose, these goals provide clarity for our activities, shaping a path towards success.

Our SMART goals directly stem from the insights of our SWOT analysis. While a SWOT paints a picture of "what" needs attention within a timeframe, SMART goals become the actionable "how" to address the identified areas of focus.

Each SMART goal is accompanied by specific actions and activities, forming a detailed plan of action. Referred to as key performance measures, these components outline the intricate steps required to achieve the overarching SMART goal.



The beauty of SMART goals lies in their precision. They not only articulate the desired outcome but also outline the specific actions necessary for successful implementation. This approach ensures that our efforts are targeted, measurable, and aligned with our strategic objectives.

In essence, each SMART goal, with its associated initiatives, is a blueprint for success. It guides our teams in translating strategic priorities into actionable steps, driving purposeful action towards the realization of MSWD's mission and vision.

Our commitment to SMART goals reflects our dedication to strategic planning, effective implementation, and continuous improvement for the benefit of the communities we proudly serve.

SMART Goal 1 – Customer Communications

Enhance customer trust, satisfaction, and understanding of water and wastewater services.

A strategic effort to enhance outreach and engagement directly correlates to the District's vision statements, which are focused on trust. Because MSWD has a positive and progressive story to tell the public, this enhanced effort will better inform the customers while creating greater engagement throughout the community.

1.1 Develop and initiate an annual plan to increase customer outreach and engagement through various communication channels, technologies, and community events. The goal is to enhance customer trust, satisfaction, and understanding of water services with ongoing refinement of the communications plan and its goals.

Key Success Measures

1. By the end of the second quarter 2024, identify and design an annual plan outlining deliberate strategies to increase customer outreach and engagement.
2. Leverage a mix of communication channels, technologies, and community events to convey information and engage with the community effectively.
3. Cultivate a vital customer service focus through communicating and engaging with the community on matters important to our region.
4. Survey customer groups involved in water-related events (e.g., construction activities, service interruptions, water quality changes, emergencies, and other vital issues) to hear about the customer experience and determine if MSWD can improve how the event is handled.
5. Refine the communications plan annually based on feedback, evolving customer needs, and emerging communication trends.
6. Incorporate District initiatives, including Chromium-6, conservation and fleet electrification, and other mandated projects so that customers understand District operations and mandates better.
7. Communicate the goals of the strategic plan to both internal and external customers. Improve recognition and familiarity of MSWD and the services we provide. Differentiate the District from its State Water Contractor and City, and clearly explain the nexus between the agencies. Use regular customer polling to document progress made in this area.

1.2 When customers better understand what the District does and how it operates, they will recognize MSWD's work to protect and provide water services. Enhancing customer education will increase trust in the District's services.

Key Success Measures

1. Continue providing Water 101 presentations for schools, service organizations, and elected officials.
2. Hold monthly Water Talks to engage and educate the public on water issues facing our valley and state water systems. Include information on District infrastructure, water quality, financials, and/or future water issues.
3. As the Long-Range Financial Master Plan is completed, ensure customers' understanding of water costs and impacts on rates.
4. Establish a communication plan that empowers our customer service workers to be brand ambassadors and build relationships with the public.
5. Expand tour and lecture opportunities and work with staff to create a speaker's bureau of knowledgeable presenters.
6. Increase school opportunities and expand the Groundwater Guardian activities within the schools.
7. Partner with the DHS High School Real Academy to increase school opportunities for students to learn more about the District.

1.3 Deliberate customer outreach also has a ripple effect of educating employees about the District. Employees can serve as ambassadors for the District, helping create and strengthen customer relationships.

Key Success Measures

1. Create an internal Intranet as a hub for employee communications.
2. Resume employee tours and onboarding programs so new employees can learn about our operations better.
3. Promote water outreach opportunities to employees, like the CV Water Counts Academy.
4. Enhance and strengthen the organizational culture by promoting the District's Strategic Plan, Mission, Vision, and Values. Work with Human Resources to add these to the employee evaluation process.

1.4 Cultivate positive community relations and partnerships with industry, media, and legislative contacts.

Key Success Measures

1. Create a culture of transparency and provide comprehensive information on the MSWD website.
2. Cultivate supportive and positive relationships with federal, state, and local agencies that may impact District operations.
3. Cultivate positive relationships with key industry professionals to stay informed and gather feedback.
4. Pursue grants and projects that would benefit our customers.
5. Develop and enhance media relationships and write and distribute press releases promptly to communicate topics important to the community. Share these stories on social media and to industry publications for greater pickup.
6. Identify and influence legislation that aligns with the District's Legislative Platform and continue to foster positive relationships with city, county, state, and federal legislators.
7. Participate in ACWA, CASA, CSDA, and other industry committees to help shape industry trends and bring back best practices to the organization.
8. Apply for and receive individual and organizational certifications for leadership, transparency, and excellence and publish these accomplishments as an example of MSWD's leadership within the water/wastewater industries



SMART Goal 2 – Water Supply

Comprehensively evaluate and present viable options for implementing a diversified water supply.

Water supply is of the utmost importance to the District. Several types of concerns about water supply were identified throughout the strategic planning process; ensuring and securing long-term water supply is a critical priority for the District. This goal will investigate options for creating recycled water and stormwater capture programs to ensure sustainable and reliable water provision for its customers.

2.1 Ensure excellence in regulatory compliance.

Key Success Measures

1. Actively monitor new regulations and engage in the rulemaking process.
2. Deliver services in accordance with standards set by regulatory agencies.
3. Chromium-6 MCL
    a. Share best practices and collaborate with other water districts in the Coachella Valley through our consultant to develop a cost-effective approach to managing Chromium-6 levels within our water supply.
    b. Increase transparency, create an education and outreach plan to share the District's approach with the community, and increase overall awareness of water quality and supply issues facing the District.
    c. Ensure the District's Chromium–6 plan is incorporated in the Long Range Financial Plan and that any capital projects are incorporated into the Five-Year CIP Program.
4. Lead & Copper Rule
    a. Develop a lead service line inventory and make it publicly available.
    b. Develop a lead service line replacement plan.
    c. Sample schools and childcare facilities for lead and copper.
    d. Strengthen treatment to comply with the new 10 microgram/liter (µg/L) trigger level.
    e. Develop a communications plan to educate the public about the Lead and Copper Rule Revision's requirements and the steps MSWD takes to meet them.
5. Conservation as a Way of Life
    a. Continue to work with regulators to address the feasibility of state-set conservation goals.
    b. Continue to review regulations and apply for variances based on agriculture, evaporative coolers, and seasonal populations while evaluating other areas that may reduce conservation targets.
    c. Solicit grant support to help pay for an MSWD weather station to obtain better precipitation and evaporation rates in our service area.
    d. Enhance customer rebate programs to include water-saving appliances like dishwashers, clothes washers, and high-efficiency toilets.

e. Budget for and incorporate a Conservation as a Way of Life engagement campaign into the annual customer communications plan.
f. Solicit grant funding to develop an Evaporative Cooler Maintenance and Replacement Program.
g. Review the turf rebate program and target outreach efforts to customers with turf.
h. As part of the new Critical Services Center, construct a new demonstration garden to encourage the use of native drought-resilient plants.

2.2 Support / Advocate regional development of local water supply and reduce reliance on imported supply.

Key Performance Measures

1. Explore options and grant funding to create a financially feasible recycled water program (looking at potable and non-potable options) at the Horton and Wright facilities.
2. Work with the City and other water districts to encourage the use of native drought-resilient plants; work with the City to add to developer requirements.
3. Evaluate options for stormwater capture and reuse.
4. Participate in negotiations for the final determination of the Ground Sustainability Agency for basins within the District's service area, which include the San Gorgonio Pass Sub-Basin, the Mission Creek Sub-Basin, the Indio Sub-Basin, and the Desert Hot Springs Sub-Basin.
5. Work with the Salt Nutrient Management Plan stakeholders to continue monitoring Total Dissolved Solids in the Coachella Valley and advocate for project funding to protect our aquifer.
6. Continue to explore opportunities with the Agua Caliente Indian Reservation to access groundwater.
7. Review and explore options with our State Water Project allocation, preparing for contract expiration and the possibility of reduced Colorado River supplies.
8. As part of the Water Master Plan, include projects that connect the MSWD IDE areas to the MSWD "main" system.

2.3 The Mission Springs Water District Groundwater Quality Protection Project is a comprehensive water resource management effort that eliminates known pollution sources; reclaims water to reduce demand on limited groundwater resources; protects underground storage capacity; and leverages multiple funding opportunities.

Key Performance Measures

1. Expand the sewer system and wastewater treatment facilities by reclaiming water and reducing groundwater demand while protecting our groundwater supply.
2. Leverage local, state and federal grant opportunities to ensure program affordability for our residents.

3. Communicate the value of septic to sewer and water quality efforts to stakeholders and the community to ensure continued support.
4. Participate in community events to build trust and ensure transparency.
5. Participate in the Coachella SNMP committee to collect data, monitor and mitigate impacts of septic systems within the MSWD boundaries.
6. Work with the local, state and federal partners to obtain 50 percent match funding for current and future assessment districts.

2.4 Develop and advance a District-wide Recycled Water Program to diversify Mission Springs Water District's water supply portfolio by securing external funding, advancing project design, and positioning the District for construction readiness in support of long-term groundwater sustainability and regulatory compliance.

Key Performance Measures

1. Solicit and Pursue Grant Funding
    a. Submit at least one complete funding application for the Recycled Water Program through State or Federal programs (e.g., Clean Water State Revolving Fund/Water Recycling Funding Program).
    b. Maintain active coordination with grant consultants and funding agencies to advance the application through required technical, environmental, and financial review milestones.
2. Advance Engineering Design to 30% or Greater.
    a. Complete preliminary engineering studies, design criteria, and layout alternatives sufficient to achieve a minimum 30% design level for recycled water treatment, storage, and conveyance facilities.
    b. Ensure design documentation is adequate to support grant eligibility, cost refinement, and CEQA progression.
3. Establish Program Scope and Phasing Strategy.
    a. Define Phase 1 project components, including treatment capacity, delivery areas, and initial non-potable customer demand.
    b. Identify future phases and expansion opportunities to incrementally increase recycled water production and use within the District's service area.
4. Coordinate Regulatory and Environmental Readiness.
    a. Identify applicable regulatory approvals and environmental documentation required to advance the project beyond preliminary design.
    b. Confirm alignment with State Water Board recycled water requirements and regional groundwater sustainability objectives.
5. Integrate Recycled Water into Long-Term Water Supply Planning.
    a. Quantify anticipated reductions in groundwater pumping and imported water reliance resulting from recycled water implementation.
    b. Incorporate recycled water supply assumptions into the District's broader water supply and capital improvement planning efforts.

SMART Goal 3 – Financial Management

Ensure long-term financial stability and resilience by implementing sound financial management practices, optimizing revenue streams, and minimizing financial risks.

Enhancing Mission Springs Water District's financial sustainability and resilience will result in a more stable, flexible, and forward-looking organization. It strengthens the District's ability to navigate challenges, fulfill its mission, and provide reliable water services to the community.

3.1 Conduct Long Range Financial Planning to ensure adequate and reliable revenue streams.

Key Success Measures

1. Update of the Long-Range Financial Master Plan
    a. Review and maintain a robust reserve fund to mitigate the impact of unforeseen financial challenges or emergencies. Ensure the District has a clear policy for allocating and replenishing the reserve fund based on financial risk assessments.
    b. Evaluate existing debt structures and explore opportunities to refinance or restructure debt for better terms. Implement a disciplined approach to debt management, ensuring that new debt is acquired strategically and aligned with long-term financial goals.
    c. Develop a prioritized infrastructure investment plan that aligns with the District's long-term goals and regulatory requirements. Explore financing options for major infrastructure projects, considering short-term and long-term financial implications.
    d. Assess financial risks, including market fluctuations, regulatory changes, and environmental factors. Develop contingency plans and risk mitigation strategies to safeguard financial stability in the face of unforeseen challenges.
2. Update Cost of Service Study – Water & Sewer
    a. Conduct a comprehensive review of current water/sewer rates and fees to ensure they align with operational costs and market trends.
    b. Implement efficiency measures, such as adopting technology solutions and streamlined processes, to reduce operational expenses.
    c. Adopt a flexible rate structure that allows the District to react to external factors and internal demands.
    d. Considers regulatory compliance needs, conservation requirements, and drought restrictions and ensures the model can perform what-if scenarios.
    e. Ensure the rate structure is sound and defensible and that customer groups are charged appropriately.
    f. Increase revenue stability by recovering more fixed costs through fixed charges while maintaining customer group fairness.

3. Update of Water and Wastewater Master Plans
    a. Conduct a financial and operational analysis of the impact of future residential and commercial development based on the Cities of Desert Hot Springs' and Palm Springs' General Plan.
    b. Evaluate options for relocation of existing water infrastructure within inaccessible areas of the District for ease of maintenance.
    c. Pipeline replacement project for aging pipes within the water distribution system. Incorporate the project in the Master Plan updates.

3.2 Control costs and manage debt responsibly.

Key Success Measures

1. Actively manage costs and live within the "approved" budget.
2. Adjust spending in response to revenue fluctuations and restrictions.
3. Look for ways to reduce water loss and increase system efficiencies.
4. Limit the impact of unexpected expenditures.
5. Preserve the District's credit rating, enabling us to qualify for favorable borrowing terms in the future.
6. Stabilize rates and develop a plan to finance essential projects conservatively.

3.3 Enhance transparency in financial reporting by adopting best practices and ensuring timely and accurate financial disclosures.

Key Success Measures

1. Communicate financial performance and challenges effectively to internal and external stakeholders, fostering trust and confidence in the District's financial management.
2. Implement budget best practices to ensure ongoing GFOA certification.
3. Develop and provide financial reporting tools (dashboard) to internal and external stakeholders.
4. Keep customer bills fresh and straightforward while providing sufficient information about charges and water use.
5. Ensure ongoing dissemination of financial information, including performance to budget, water sales and purchases, and wastewater, as part of the District's overall financial health.
6. Provide information to customers about internal versus external cost of services and pass through appropriate Replenishment Assessment Charges and City of Desert Hot Springs Utility Users Tax increases.
7. Foster a culture of financial responsibility and accountability across the organization.



SMART Goal 4 – System Reliability

Ensure each component of the water and wastewater systems contributes to the long-term health and reliability of overall operations.

The District must maintain and improve our current water and wastewater infrastructure in a costeffective manner to ensure the safe-sustainable delivery of water and wastewater services now and in the future. We will protect these valuable assets while preparing for emergencies. This strategic goal emphasizes a holistic and forward-thinking approach to water and wastewater system management and infrastructure, fostering innovation, collaboration, and enduring strategies that align with the District's mission while ensuring the long-term reliability of its overall operation.

4.1 By September 2026, complete the construction of a Critical Service Center, which will foster increased collaboration, communication, and teamwork among employees working at one central location.

Key Success Measures

1. Construct a new administrative and operations building to allow the District to grow and continue to provide service to its customers.
2. With the Two Bunch location no longer feasible, ensure that the District's second choice, the Corporate Yard, is feasible and meets the District's future needs before engaging a contractor.

4.2 Update Existing Water and Wastewater Master Plans.

Key Success Measures

1. Review the District's five-year Capital Improvement Plan and ensure it aligns with the Long Range Financial Master Plan and all long-term financial strategies.
2. Conduct a financial and operational analysis of the impact of future residential and commercial development based on the Cities of Desert Hot Springs' and Palm Springs' General Plans.
3. Work with the City of Desert Hot Springs to develop an infrastructure feasibility study for unserved areas poised for growth.
4. Execute a mutual services agreement with Coachella Valley Water District (CVWD) to serve customers in the CVWD service territory without water/sewer access.
5. Collaborate with the City of Desert Hot Springs, Riverside County, and other stakeholders to repair old infrastructure and bring it up to current standards. Ensure that infrastructure improvements not only meet current demand but are designed to support future water and wastewater requirements, contributing to the overall reliability of the systems.
6. Evaluate options for relocating existing water infrastructure within inaccessible areas (including rear lot easements) of the District for ease of maintenance and risk reduction.

7. Identify and remove problematic tamarisk trees and other vegetation to prevent future root-related system issues.
8. Create a Predictive and Preventative Pipeline Replacement Project for aging piping within the water distribution system.
9. Continue to work with the Army Corp of Engineers to design and construct all defined assessment areas while leveraging grant funding to lower customer costs.
10. Identify additional capital projects and improvements that enhance system resiliency. Focus on increasing water yields from current projects through strategic enhancements and upgrades, aligning with the long-term reliability goals.
11. Conduct an analysis of available capacity within the current water system with future water demand projections to forecast the time of demand need. Incorporate results in Urban Water Management Plan updates and Master Plan updates.

4.3 Maintain and renew assets while facilitating strategic Capital Improvements.

Key Success Measures

1. Create a Predictive and Preventive Maintenance Program to meet established performance benchmarks.
2. Diligently manage and maintain current equipment to provide maximum value to the District.
3. Assess existing pipelines and associated equipment as part of the Predictive and Preventive Maintenance Program.
4. Research and implement a complete Computerized Maintenance Management System.
5. Build a connection to the MSWD IDE areas to the MSWD "main" system.
6. Evaluate system interconnects with neighboring agencies.
7. Evaluate emerging technologies and consider implementation.
8. Provide a comprehensive backup transmission system.

4.4 Invest and look at ways to fortify infrastructure security.

Key Success Measures

1. Optimize security preparedness at all sites.
2. Identify, monitor, and resolve risks of flood, earthquake, or natural disaster.
3. Invest in emergency backup generators and system redundancies for fail-safe operations.
4. Enhance security measures at critical remote sites and standardize systems and software to manage these operations.

4.5 Ensure the District is prepared to react to manmade and natural emergencies.

Key Success Measures

1. Continue to improve and refine the District's emergency response plan.

2. Effectively communicate with outside agencies and emergency preparedness partners, including mutual response like CalWARN or first response personnel at the City and County.
3. Continue to train District personnel in National Incident Management Systems (NIMS) to recommended levels and review the applicability of Web-EOC software programs.
4. Ensure earthquake retrofitting of critical infrastructure is included in long-term planning activities, protecting District assets and those of the customers we serve.
5. Participate in regional tabletop exercises to ensure staff are prepared for emergency situations.



SMART Goal 5 – Environmental Sustainability

Increase district-wide efficiency by adding new renewable energy resources, optimizing processes, implementing green building practices, and reducing overall water consumption.

Taking concrete steps toward being more environmentally sustainable, Mission Springs Water District will, in the next three years, increase District-wide energy efficiency by as much as 20% by adding new renewable energy resources, optimizing water treatment processes, implementing green building practices, and reducing overall water consumption through conservation programs and the encouragement of native and desert friendly landscaping by our customers. Being good stewards of our natural resources is part of MSWD's mission and vision for the future. It reflects our commitment and desire to uphold these values for the good of the community we serve.

5.1 Increase Use of Sustainable Energy Sources and Optimize Efficiencies – "There is no waste; just wasted resources".

Key Success Measures

1. Add solar panels to District facilities and convert low electrical use sites to solar.
2. Evaluate hybrid/electric technology opportunities.
3. Explore biofuel opportunities.
4. Reduce overall energy consumption associated with District facilities by 20% in the next three years.
5. Evaluate opportunities to minimize greenhouse gas emissions in District operations.
6. Leverage the District's solar resources and look into expansion financing opportunities, including grants, leasing, and power purchase agreement opportunities.
7. Enhance sustainability by minimizing waste in resources needed to meet operation and maintenance objectives.
8. Consider the environmental impact on all business practices.
9. Explore additional sludge recycling options for future reuse.
10. Create an internal employee culture that proactively seeks ways to conserve water and energy and be more environmentally sustainable in everything we do.



1.2 Fleet Electrification.

Key Success Measures

1. Continue monitoring changes to fleet electrification mandates and work with regulators to ensure mandates are feasible.
2. Create a strategy that meets upcoming fleet electrification regulations and considers operational requirements. A financial analysis includes ongoing maintenance costs and the cost of electricity versus traditional fuel.
3. Pursue grant opportunities to fund the inclusion of Electric Vehicles in our fleet and provide funding for necessary charging infrastructure.

1.3 Embrace Green Building Standards.

Key Success Measures

1. Reduce overall energy consumption associated with District facilities by 20% and incorporate greater green building standards in all building projects, including the new Critical Services Center.
2. Ensure the new Critical Services Center design incorporates energy/water efficiency best practices, including but not limited to the building's positioning, solar control and shading, material selection, building envelope, efficient lighting (possible solar tubes), HVAC systems, and renewable energy systems.
3. Evaluate building designs and perform a cost-benefit analysis of the impact of incorporating LEED Green Building standards in construction projects.
4. Ensure all District construction projects adhere to California environmental laws and regulations.



SMART Goal 6 – Improved Technology & Processes

Ensure each component of the water and wastewater systems contributes to the long-term health, reliability, and addresses workflow inefficiencies by implementing technology solutions and process improvements.

The imperative for addressing workflow inefficiencies through technological advancements has become critical in response to the evolving demands and challenges facing MSWD. This need was elevated through the SWOT analysis and employee feedback; thus, the Board identified this goal as a priority. By addressing these aspects, the District aims to meet its immediate operational needs and future-proof its processes, ensuring sustainable and effective water management for the community. This comprehensive approach reflects a commitment to excellence, innovation, and delivering high-quality services.

6.1 Embracing technological solutions that align the District with industry best practices and modern standards.

Key Success Measures

1. Ensure information systems planning is aligned with the District's Strategic Plan.
2. Enhance cyber security to ensure the continued safety of our system.
3. Ensure secure data access, remote access, and valid customer data.
4. Finalize the solicitation for a new enterprise resource planning software platform, which will seamlessly integrate Finance, Customer Service, and Human Resources needs.
5. Streamline processes and improve customer service by reducing delays and errors to enhance customer satisfaction and trust in the District's services.
6. Automate employee payroll structure and eliminate manual entry of employee time and project numbers.
7. Develop a work order management system and analyze workload allocations for infrastructure and maintenance operations based on industry key performance indicators and standards.
8. Identify opportunities for the privatization of routine maintenance functions to augment staffing levels.
9. Adopt an asset management system to ensure cradle-to-grave tracking of resources that aligns with the asset management and replacement component of the Long Range Financial Master Plan.
10. Continue to enhance purchasing processes to streamline staff processing times while ensuring appropriate approvals are met.
11. Evaluate options for automating the inventory management system for purchasing, receiving, and warehouse operations. Expand and improve the use of mobile computing and communication technology.
12. Adopt a records retention policy, incorporate retention schedules into processes, and automate them into new computer systems.

13. Review lien processing and streamline and consolidate processing to one department.
14. Look for additional ways to leverage technology and increase staff efficiency and operational savings. Information systems should support effective decision-making, system integration, reliable data, and decreased redundancy.

6.2 Hire a designated GIS employee and integrate asset management within the MSWD work order management system.

Key Success Measures

1. Review the existing Nobel platform and ensure it meets the District's ongoing needs. Integrate data collection and analysis to allow for data-driven decision-making based on real-time data.
2. Boost real-time monitoring and incident response.
3. Enhance network analysis and optimization.



SMART Goal 7 – Workforce Excellence

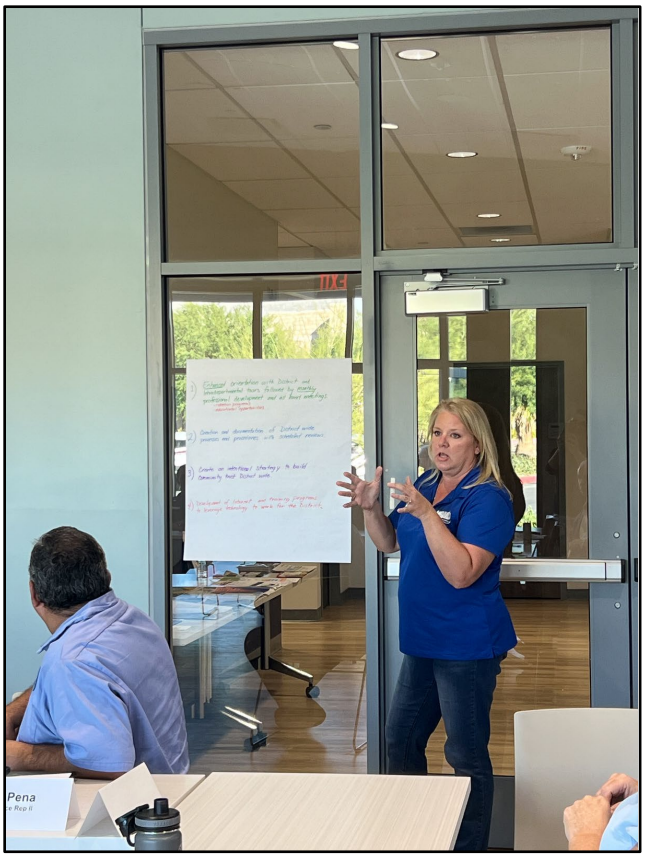
Investment in staff and management to cultivate a high-performing and knowledgeable workforce.

This SMART goal emphasizes the importance of ongoing investment in the District's most valuable assets—its staff and leadership. Through competitive compensation, expanded opportunities, and targeted development initiatives, the goal is to build a workforce that excels in performance, innovation, and leadership, increasing employee satisfaction and ensuring the sustained success of the District.

7.1 Create development opportunities and facilitate staff participation in professional development opportunities.

Key Success Measures

1. Continue to develop individual employee development plans to promote personal and professional growth.
2. Update the organization-wide succession plan, allowing employees the opportunity for professional growth, cross-training, and preparation for succession and temporary assignments to maintain continuity and operational effectiveness.
3. Modify the employee performance evaluation process to align with the District's new Strategic Plan and core values.
4. Hold managers accountable for performing timely performance evaluations that increases job knowledge, documents performance, and supports employees' overall success.



7.2 Expand leadership development programs to enhance the knowledge and skills of employees.

Key Success Measures

1. Leverage our member organizations, including ACWA, AWWA, CSDA, and CWEA to implement training initiatives to support leadership and succession planning to ensure a continuous pipeline of qualified individuals.

2. Create a Board of Directors onboarding program that provides new board members with resources and information to streamline their transition onto the Board.
3. Develop a comprehensive supervisor development and training program for existing managers, supervisors, and employees aspiring to supervisory positions.
4. On an ongoing basis, ensure 100% of employees have clearly defined job-related goals on their performance evaluations.
5. Publish and promote all employees' education/certification accomplishments internally.
6. Continue to hold regular GM/All-Hands meetings to create dialogue and promote organizational culture.

7.3 Recruit and retain employees.



Key Success Measures

1. Update and continue utilizing salary survey insights to inform salary decisions, ensuring that compensation remains competitive. Competitive compensation and expanded internship opportunities attract and retain top talent, contributing to a skilled and motivated workforce.
2. Create an internship program to increase opportunities for students and professionals, supporting industry employment growth and building a robust recruitment pool.
3. Foster collaborations with educational institutions to create pathways for talent to enter and thrive in the organization. Continue to investigate opportunities with local Colleges to create Career Technical Education pathways for some of our hard-to-fill positions.
4. Evaluate and look for ways to keep turnover rates at or below industry standards due to resignations or terminations (related to compensation or working conditions), not including retirements.

7.4 Ensure employee safety and wellness.

Key Success Measures

1. Continue to educate employees on safe working practices.
2. Require supervisors and lead workers to demonstrate their commitment to safe work practices.
3. Work towards a 100% non-litigation rate on Workers' Compensation claims.
4. Encourage Employee Wellness and implement a comprehensive, district-wide Employee Wellness Plan.

7.5 Cultivate a positive culture and teamwork among staff.

Key Success Measures

1. Ensure the lines of communication are open for all employees.
2. Employees experience camaraderie and teamwork through on-site employee events, and the company continues to recruit employees to the events committee to avoid committee burnout.
3. Focus on maintaining high employee morale and a positive organizational culture. Ensure our workforce is ready to embrace Diversity, Equity, and Inclusion differences and continue routine training.





FINANCIAL STRUCTURE, PROCESS, & POLICY

2027

MSWD
Mission Springs Water District

Mission Springs Water District

66575 Second Street
Desert Hot Springs, CA 92240
www.mswd.org
760-329-6448

FINANCIAL STRUCTURE, PROCESS, & POLICY

Fund Structure

The District is comprised of the following major enterprise funds that are also listed in **Table 9** below.

General Fund – Used to account for activities associated with supporting the administration of the District.

Water Fund – Acquisition, treatment, and distribution of potable water, and the construction, repair, and replacement of related infrastructure. MSWD provides water service to 14,231 water accounts, of which 95% are residential customers.

Sewer Fund – Collection of domestic, commercial, and industrial wastewater, and the construction, repair, and replacement of conveyance facilities. MSWD provides sewage collection, treatment, and disposal services to 10,021 customer accounts, of which 97% are residential customers.

Each enterprise fund is considered a separate budgetary and accounting entity, reported on a full accrual accounting basis with the exceptions listed in the Basis of Budgeting section of this document. Each fund is a separate fiscal entity with its own balancing set of accounts. Rates and budgets are adopted for each fund to support the associated operating and capital costs. Each enterprise fund records cash and financial resources, together with all related liabilities and residual equity balances.

Table 9: District Enterprise Fund Structure

Fund	Fund Type	Description	Included in Budget	Included in ACFR
General	Enterprise	Accounts for activities associated with supporting the administration of the District and long-term administrative capital improvement projects	Yes	Yes
Water	Enterprise	Accounts for potable water operations, debt principle and interest, and long-term water related capital improvement projects	Yes	Yes
Sewer	Enterprise	Accounts for sewer operations and long-term sewer related capital improvement projects	Yes	Yes

Fund-Department Relationship

The cost of operating expenses, including employee wages and benefits, are allocated to each division and department based on actual expenses as tracked by the District's project accounting system, with allocation to the Water or Sewer Funds based on percentages determined by historical trends and service levels. District-wide expenses which are general in nature and not attributable to a particular project or department are allocated to the District's General Fund. **Table 10** shows the relationship between the District's departments and the enterprise funds that are charged for their activities.

Table 10: Fund-Department Relationship Matrix

Division	Department	General Fund	Water Fund	Sewer Fund
Executive	Board of Directors	X	X	X
	Office of the General Manager	X	X	X
Administration	Administration	X	X	X
	Human Resources		X	X
	Innovation & Technology		X	X
	Public Affairs		X	X
Engineering	Engineering & Water Resources		X	X
Finance	Accounting	X	X	X
	Customer Service		X	X
	Finance		X	X
Operations & Maintenance	Construction & Maintenance		X	
	Field Services		X	
	Water Production		X	
	Wastewater Collection			X
	Wastewater Treatment & Disposal			X

Blended Component Unit

In April of 1985, the Mission Springs Water District Improvement Corporation (Corporation) was created by a joint exercise of powers agreement for the purpose of acquiring, constructing, rehabilitating, financing and refinancing, or providing for the sale of leasing of public capital improvements. The Corporation is governed by a board composed of the District's Board of Directors. The corporation has issued debt which is secured solely from installment payments payable under an installment purchase agreement entered into by the District and the Corporation. All accounts and funds created and established pursuant to any instrument or agreement to which the Corporation is a party, and any interest earned and accrued thereon, shall incur to the

benefit of the District. Separate financial statements are not prepared for the Corporation. It is reported as a blended component unit.

Property Taxes

The County of Riverside (County) bills and collects property taxes on behalf of the District and numerous assessment districts. The District's current year tax collection is received through periodic apportionments from the County. The County's tax calendar is from July 1 to June 30 each year. Property taxes attach as a lien on the property on January 1. Taxes are levied on July 1 and are payable in two installments on November 1 and February 1, and become delinquent after December 10 and April 10, respectively.

Basis of Budgeting

The District operates under the authority of the California Water Code. It maintains and prepares its financial statements and budgets using the accrual basis of accounting as prescribed by Generally Accepted Accounting Principles (GAAP) and reporting standards applicable to California governmental agencies. MSWD makes an allocation of all general and administrative costs to the water district, sewer district, and to capital improvements based on a percentage of labor hours. The allocations are made monthly.

The Board of Directors approves an annual budget on or before June 30 for the ensuing fiscal year. From the effective date of the budget, the amounts stated therein as proposed expenditures become appropriations to the various departments. Budgets are prepared annually using the zero-base method. The Board of Directors may approve supplemental budget requests. The General Manager (GM) may transfer funds between general ledger accounts within the operating budgets if the total budget is not affected.

Budget Process

MSWD's streamlined 10-step budget process is summarized below as:

1. **Initiate the Budget.** MSWD managerial staff inputs budgetary estimates for the following year with their departmental goals in mind at the beginning of the budgetary process.
2. **Prepare a draft budget.** Based on these inputs, the Finance Department prepares the draft budget.
3. **Finalize Employee Requests.**
4. **Present Employee Requests to Human Relations Committee.**
5. **Present the draft budget to the GM for review and comment.**
6. **Present the draft budget to the Board of Directors at workshop.**
7. **Present the GM recommended budget to the Board of Directors at Study Session.**

8. **Present the amended GM recommended budget to the Board of Directors at Board Meeting for approval.**
9. **Apply for Government Finance Officers Association (GFOA) Award for Excellence in Budget Reporting.**
10. **Propose any budget amendments.** Staff reviews the performance and budget in January, and if any amendments are necessary, a revised budget will be submitted to the Board of Directors in February. The approved budgets are posted on MSWD's website.

Budget Schedule

Table 11 show the budget calendar for the District's preparation and review process timeline for FY 2027.

Table 11: Budget Planning Schedule for FY 2027

MSWD Budget Planning Fiscal Year 2027	Required By Date
Employee Request Meeting	03/03/2026
Budget Kickoff Meeting	03/18/2026
Update actual numbers and prepare for new budget cycle	03/25/2026
Budget worksheet distributed to managers and supervisors	03/30/2026
Report to staff which Employee Request items will be presented to the Board of Directors as part of the budget	04/02/2026
Board Workshop – Present Employee Request staff recommendations to Human Resources Committee/Board of Directors	04/08/2026
Budget worksheet completed by managers and supervisors	04/14/2026
Finance staff budget review meetings with managers, supervisors, and GM	04/15/2026 – 05/18/2026
Board Workshop – Charts Only	05/06/2026
Finalize the draft budget	05/25/2026
Budget Workshop - Present draft budget to Board of Directors for review and comment	06/03/2026
Board Study Session - Present GM Revised Budget to Board of Directors for review and comment	06/11/2026
Board Meeting - Present GM Recommended budget to Board of Directors for adoption	06/15/2026
Apply for GFOA Award for Excellence in Budget Reporting	06/30/2026

Budget Control & Amendment

Throughout the budget period management staff are responsible for monitoring their department's budgets. Finance staff provide tools for managers to review their budgets at any time. In addition to the budget process, staff presents a monthly financial results report to the Board for review and approval. This report updates the Board on the progress of all operating revenues and expense for all funds, comparing budget to actual amounts. Finance staff also undertakes a comprehensive mid-year review of the District's operating and capital budgets, which are then submitted to the full Board for discussion and approval. If during the mid-year budget review or during the budget presentation to the Finance Committee it is determined that a significant adjustment is needed, then finance staff will work with managers to prepare the request for the Board of Directors to approve. Managers may transfer funds between their division accounts in accordance with the District's Reserve and Financial Benchmark Policy.

Financial Policies & Resolutions

Every June, the Board of Directors adopts the three budget resolutions that guide District operations for the following fiscal year. The Operating and Capital Budget establishes controls on changes in appropriations for the various funds. The District adopts its appropriations limit for the fiscal year in compliance with the requirements established by the Constitution of the State of California. Finally, the Board approves and adopts the employee classification and compensation plan indicating the number of positions approved for each classification and assigning titles for those positions. This is done for the efficient and effective operation of the District.

The Board of Directors also approves and implements the policies and resolutions that drive all financial decision making for the District.

Reserve Policies

Resolution No. 95-10

This resolution establishes a Wastewater Capital Reserve Fund.

Resolution No. 95-20

This resolution establishes a Water Capital Reserve Fund.

Resolution No. 95-21

This resolution establishes an Internal Services (General Fund) Capital Reserve Fund.

Bidding and Contract Procedures Policy

Resolution No. 2025-15

This resolution establishes a bidding and contract procedures policy. The purpose of this resolution is to establish guidelines for competitive bidding for any project. It goes on to identify the types of projects and approval amounts for each.

Minor Project
A project or service required by the District which is estimated by the General Manager to cost $100,000 or less, and which may be awarded and negotiated by the General Manager, in contract or purchase order form.

Intermediate Project
A project or service required by the District which is estimated by the General Manager to cost more than $100,000 but less than $150,000 to complete.

Major Project
A project or service required by the District which is estimated by the General Manager to cost $150,000 or more to complete.

Investment Policies

The District's investment policies outline the guidelines required to be used in effectively managing the District's available cash in accordance with the California Government Code. To address interest rate risk, the District's existing policy limits the maturity of investments to five years. To mitigate credit risks associated with its investments, the District's investment policy limits investments to large institutions and requires diversification to ensure that failure of one issuer will not significantly affect the District's cash flow.

Policy No. 2017-1 - Investment Policy

The purpose of this investment policy is to provide guidelines for the prudent investment of the District funds in conformance with California Government Code and other legal requirements governing the investment of public funds.

Resolution No. 2017-10

The purpose of this resolution is to authorize the District to join with other public agencies as a participant of the Investment Trust of California, carrying on business as CalTrust. The District is a voluntary participant in CalTrust, which is a Joint Powers Authority governed by a Board of Trustees made up of local treasurers and investment officers. As of May 31, 2026, the District's investment in CalTrust is $35,092,456, of which $3,045,480 was invested in the Liquidity funds pool, $7,613,933 in the Short-term pool, and $24,433,043 in the Medium-term pool.

Procurement and Disbursement Policies

Resolution No. 2025-15

The purpose of this resolution is to establish a policy for procurement and disbursement of district funds. It provides for a procurement system of quality and integrity; provides for the fair and equitable treatment of all persons or firms involved in purchasing by the District; ensures that supplies and services are procured efficiently, effectively, and at the most favorable prices available to the District; promotes competition in contracting; and ensures that MSWD purchasing actions are in full compliance with applicable Federal standards, State, and local laws. All other policies and resolutions involving procurement fall within this resolution.

Policy No. 2025-06

The purpose of this policy is to establish consultant/vendor invoice processing guidelines. Department supervisory staff are authorized to obligate the District for necessary costs and expenses required to fulfill the goals of the adopted budgets authorized by the Board of Directors.

Policy No. 2025-03

The purpose of this policy is to establish petty cash disbursement/replenishment guidelines. It is the purpose of this policy to outline provisions for the disbursement and replenishment of the petty cash fund established at $500.

Policy No. 2025-05

The purpose of this policy is to establish the use of District credit card guidelines. The issuance of credit cards assists the Finance Department in keeping an accurate record of charges incurred by each individual assigned a card. This system provides management with a check and balance method on budgeting items such as seminars, conferences, travel and training plus individual charges of necessary District materials and supplies.

Resolution No. 2018-02

The purpose of this resolution is to establish designated officers for disbursement of District funds and authorize to sign checks, drafts and transfers with all active bank accounts of the District. These officers may act in a fiduciary capacity for the District.

Debt Management Policy

Resolution No. 2017-11

The purpose of this resolution is to establish and adopt a debt management policy of the District. Senate Bill No. 1029 was passed by the California State Legislature in August 2016 and became law on September 12, 2013, requiring local agencies such as MSWD to adopt comprehensive written debt management policies reflecting local, state and federal laws and regulations.



FINANCIAL SUMMARIES

2027

MSWD
Mission Springs Water District

Mission Springs Water District

66575 Second Street
Desert Hot Springs, CA 92240
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FINANCIAL SUMMARIES

Budget Summary

The operating budget for fiscal year (FY) 2027 is approximately $31.7 million as shown in **Table 12** below. There is an additional $43.5 million in capital improvements proposed for a total budget of approximately $75.2 million. This is a significant decrease in total budget expenses when compared to FY 2026. The decrease is primarily in the capital improvements budget due to some projects being delayed or put on-hold until the next fiscal year. Also, MSWD staff continues to monitor the impacts of strict State regulations and drought mandates on District operations and will make any necessary changes to the budget as part of the mid-year budget evaluation.

Table 12: Budget Summary by Fiscal Year

	Budget FY 2027**	Budget Change	Budget FY 2026*	Budget Change	Budget FY 2025*
Operating Budget					
Operating Revenue	$25,837,512	$5,220,492	$20,617,020	$288,092	$20,328,928
Operating Expenses	$31,693,004	$3,845,363	$27,847,641	$517,396	$27,330,245
Operating Income	**($5,855,492)**	**$1,375,129**	**($7,230,621)**	**($229,304)**	**($7,001,317)**
Expenses					
Operating Expenses	$31,693,004	$3,845,363	$27,847,641	$517,396	$27,330,245
Capital Improvement Projects	$43,481,406	($26,956,293)	$70,437,699	$25,627,442	$44,810,257
Total Budget	**$75,174,410**	**($23,110,930)**	**$98,285,340**	**$26,144,838**	**$72,140,502**

* - Revised after mid-year Board approval.
** - Starting in FY 2027, a new chart of accounts was implemented resulting in differences in categories from previous years.



Net Income Summary

The Net Income for FY 2027 is approximately $14.4 million as shown in **Table 13**, which is significantly lower than FY 2026. The decrease can be directly attributed to the increase in operating expenses before depreciation expense and the addition of two full-time employees for FY 2027.

Table 13: Net Income Summary by Fiscal Year

	Budget FY 2027**	Budget Change	Budget FY 2026*	Budget Change	Budget FY 2025*
Operating Revenues	$25,837,512	$5,220,492	$20,617,020	$288,092	$20,328,928
Operating Expenses (Before Depreciation Expense)	$26,853,404	$3,845,363	$23,008,041	$767,092	$22,240,949
Net Operating Income (Loss)	($5,855,492)	$1,375,129	($7,230,621)	($229,304)	($7,001,317)
Depreciation Expense	($4,839,600)	$0	($4,839,600)	$249,696	($5,089,296)
Non-Operating Revenue/(Expense)	$20,234,623	($6,302,713)	$26,537,336	$539,289	$27,076,625
Net Income	**$14,379,131**	**($4,927,584)**	**$19,306,715**	**($768,593)**	**$20,075,308**

* - Revised after mid-year Board approval.
** - Starting in FY 2027, a new chart of accounts was implemented resulting in differences in categories from previous years.



Summary of Revenue by Operating Fund

MSWD receives funding from a variety of sources: domestic water sales, wastewater service charges, connection fees, property taxes, grants, investment income, rental property, cellular tower leases, solar power generation, and charges for miscellaneous services.

For FY 2027, the Operating Revenue budget equals $25,837,512, and the Non-Operating Revenue budget equals $20,534,209, for a Total Revenue budget of $46,371,921 as shown in **Table 14**. A significant source of funding is the use of grants for capital improvement projects, which have been obtained from both state and federal agencies and have allowed MSWD to adopt a budget that includes no fee or rate increases for any of its services.

Table 14: Summary of Revenue by Operating Fund for FY 2027

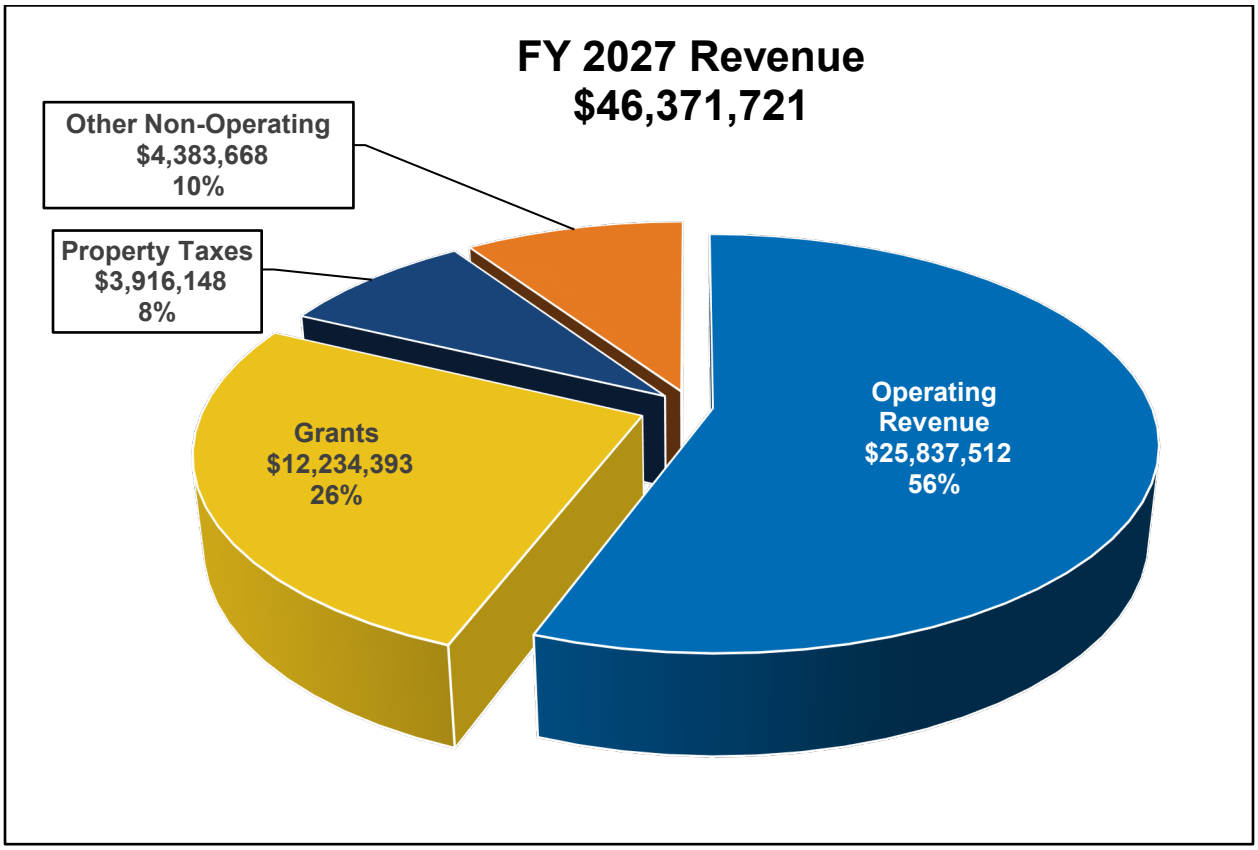
Revenue Source	FY 2027 Total	General District	Water District	Sewer District
Operating Revenue				
Base Service Charge	$3,247,674	$0	$3,247,674	$0
Water Consumption	$10,116,960	$0	$10,116,960	$0
Backup Facilities Charge	$1,300,000	$0	$1,125,000	$175,000
Meter Installations	$193,000	$0	$193,000	$0
Sewer Service	$7,928,700	$0	$0	$7,928,700
DWA Assessment Collected	$1,767,400	$0	$1,767,400	$0
Standby Charges	$238,740	$0	$225,900	$12,840
Fats, Oils, and Grease Fees	$7,000	$0	$0	$7,000
Other Operating Revenue	$1,038,038	$0	$963,038	$75,000
Sub-Total Operating Revenue	**$25,837,512**	**$0**	**$17,638,972**	**$8,198,540**
Non-Operating Revenue				
Property Taxes	$3,916,148	$1,306,138	$1,680,685	$929,325
Solar Credits	$176,300	$168,800	$7,500	$0
Investment Income	$4,207,568	$670,000	$1,509,220	$2,028,348
Grants	$12,234,393	$250,000	$0	$11,984,393
Sub-Total Non-Operating Revenue	**$20,534,209**	**$2,394,938**	**$3,197,405**	**$14,942,066**
Total Revenue	**$46,371,921**	**$2,394,938**	**$20,836,377**	**$23,140,606**

Total Revenue for Fiscal Year 2027

MSWD receives funding from a variety of sources: domestic water sales, wastewater service charges, water and sewer connection fees, property taxes, grants, investment income, rental property, cellular tower leases, solar power generation, and charges for miscellaneous services.

For FY 2027, the Operating Revenue and Non-Operating Revenue budgets amounted to $25,837,512 and $20,534,209, respectively, for a total revenue budget of $46,371,721 as shown in **Figure 12** below. Significant sources of funding are grants expected for capital improvement projects. These state and federal grants have allowed MSWD to adopt a budget that includes capital improvements with no projected fee or rate increases for its services.

Figure 12: Total Revenue by Type for FY 2027



Summary of Revenue by Year

MSWD receives funding from a variety of sources: domestic water sales, wastewater service charges, connection fees, property taxes, grants, investment income, rental property, cellular tower leases, solar power generation, and charges for miscellaneous services. For FY 2027, Operating Revenue and net Non-Operating Revenue amounted to $25,837,512 and $20,534,409, respectively, for a combined total revenue of $46,371,721 as shown in **Table 15**. FY 2027 Operating Revenue increased significantly compared to FY 2026, however, FY 2027 Non-Operating Revenue also decreased significantly in response compared to FY 2026.

Table 15: Summary of Revenue by Fiscal Year

Revenue Source	FY 2027**	FY 2026*	FY 2025*
Operating Revenue			
Base Service Charge	$3,247,674	$2,979,516	$2,924,400
Water Consumption	$10,116,960	$9,144,000	$8,648,376
Backup Facilities Charge	$1,300,000	$0	$0
Meter Installations	$193,000	$189,600	$122,520
Sewer Service	$7,928,700	$7,410,000	$7,380,000
DWA Assessment Collected	$1,767,400	$0	$0
Standby Charges	$238,740	$237,900	$238,500
Fats, Oils, and Grease Fees	$7,000	$3,600	$3,600
Other Operating Revenue	$1,038,038	$652,404	$1,011,532
Sub-Total Operating Revenue	**$25,837,512**	**$20,617,020**	**$20,328,928**
Non-Operating Revenue			
Connection Fees	$0	$1,074,000	$628,500
Property Taxes	$3,916,148	$2,384,508	$2,342,460
Solar Credits	$176,300	$166,800	$350,000
Site Rentals	$0	$124,800	$100,800
Investment Income	$4,207,568	$4,022,236	$2,274,120
Unrealized Gains/(Losses)	$0	$1,556,508	$100,200
Grants	$12,234,393	$18,175,000	$21,750,000
Sub-Total Non-Operating Revenue	**$20,534,409**	**$27,503,852**	**$27,546,080**
Total Revenue	**$46,371,921**	**$48,120,872**	**$47,875,008**

* - Revised after midyear Board approval.

** - Starting in FY2027, a new chart of accounts was implemented resulting in differences in categories from previous years.

Operating Fund Revenue Over Expenditures by Fund

Table 16 provides a breakdown of operating revenue and expenditures by fund for FY 2027. The table shows a Net Operating Loss of $5,855,492 for FY 2027.

Table 16: Operating Fund Revenue Over Expenditures by Fund for FY 2027

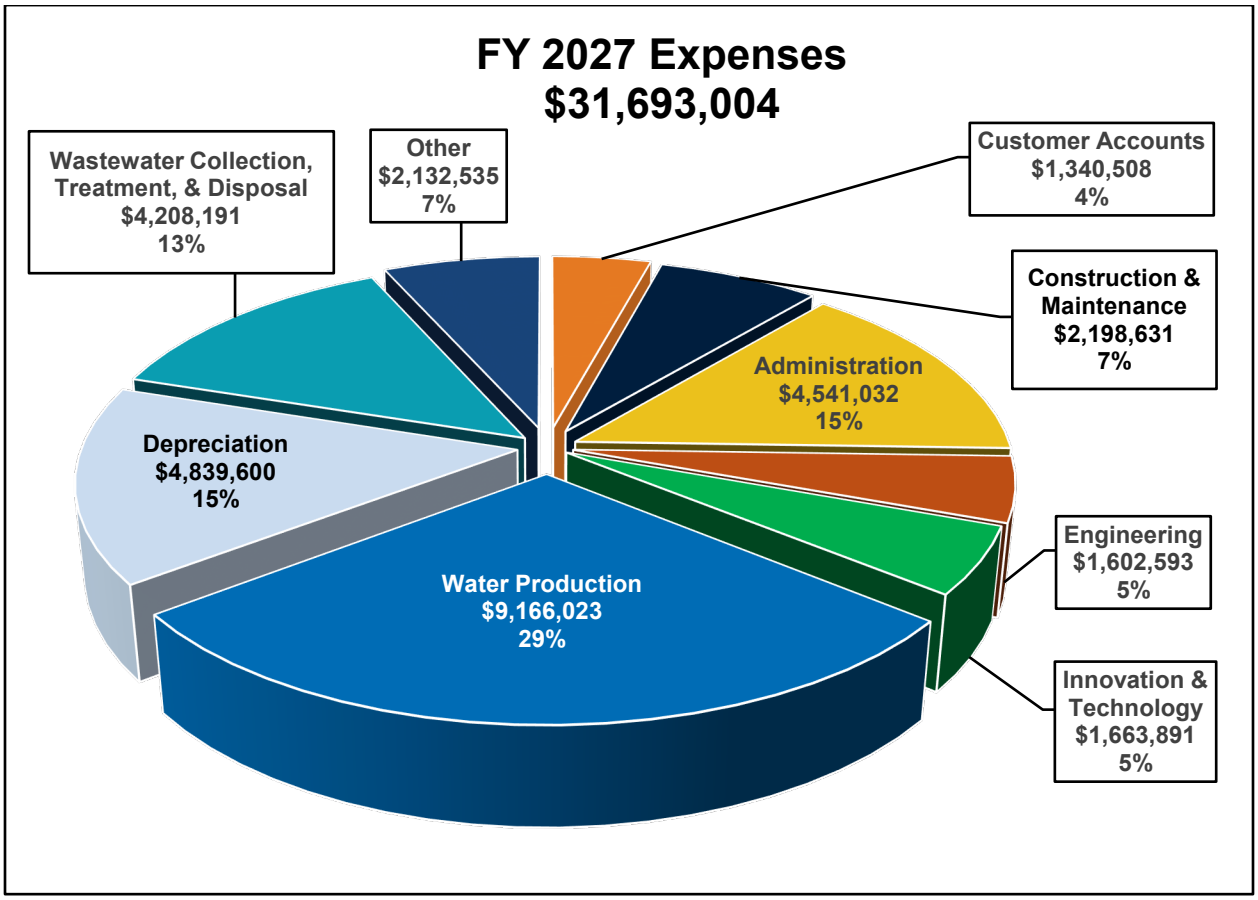
	Combined District's Total Funds	Operating Funds		
		General District	Water District	Sewer District
Operating Revenues	$25,837,512	$0	$17,638,972	$8,198,540
Operating Expenses				
Customer Accounts	$1,340,508	$766,103	$574,405	$0
Buildings and Grounds	$286,693	$286,693	$0	$0
Vehicle Maintenance	$995,539	$995,539	$0	$0
Central Services	$916,399	$901,399	$10,000	$5,000
Administration	$1,684,745	$1,684,745	$0	$0
Information Technology	$1,663,891	$1,663,891	$0	$0
Board of Directors	$438,734	$438,734	$0	$0
Public Affairs	$1,261,684	$1,131,676	$130,008	$0
Human Resources	$569,371	$569,371	$0	$0
Engineering	$1,602,593	$1,415,343	$66,000	$121,250
Accounting	$902,521	$902,521	$0	$0
Pumping	$4,000,057	$0	$4,000,057	$0
Transmission & Distribution	$3,032,924	$0	$3,032,924	$0
Collections	$774,229	$0	$0	$774,229
Treatment & Disposal	$3,433,962	$0	$0	$3,433,962
Depreciation	$4,839,600	$312,000	$2,487,600	$2,040,000
Other Operating Expenses	$3,949,554	$1,693,232	$2,221,322	$35,000
Administrative Costs Allocated	$0	($12,761,247)	$8,294,811	$4,466,436
Total Operating Expense	**$31,693,004**	**$0**	**$20,817,217**	**$10,875,877**
Net Operating Loss	**($5,855,492)**	**$0**	**($3,178,155)**	**($2,677,337)**

Total Expenses for Fiscal Year 2027

Operating expenses for FY 2027, amount to $31,693,004 as shown in **Figure 13** below, representing an increase of $3,845,363 from FY 2026. For FY 2027, two positions were added: Compliance and Safety Officer and Water Distribution Superintendent. In addition, the increase in operating expenses also reflects an increase of 2.91% Cost of Living Adjustment (COLA) as recommended by the Human Relations Committee and approved by the Board in May 2026.

There is also $43,481,406 in capital improvement expenses made up primarily by the new Administration Building, Well 42, Area M-2 Septic to Sewer Conversion, Well 22 Rehabilitation, and Well 34/35 Intertie. The District continues to prioritize capital improvements that can be covered by grant revenue.

Figure 13: Total Expenses by Type for FY 2027



Operating Fund Revenue Over Expenditures by Year

Table 17 provides a breakdown of operating revenue and expenditures by fund for FY 2027. The table shows a Net Operating Loss of $5,855,492 for FY 2027, which is significantly lower compared to FY 2026.

Table 17: Operating Fund Revenue Over Expenditures by Fiscal Year

	FY 2027**	FY 2026*	FY 2025*
Operating Revenues	$25,837,512	$20,617,020	$20,328,928
Operating Expenses			
Customer Accounts	$1,340,508	$2,006,116	$1,947,512
Buildings and Grounds	$286,693	$233,556	$206,408
Vehicle Maintenance	$995,539	$656,940	$669,404
Central Services	$916,399	$1,390,965	$1,120,644
Administration	$2,709,977	$3,010,803	$2,841,644
Information Technology	$1,663,891	$1,159,078	$1,845,084
Board of Directors	$438,734	$522,744	$488,732
Public Affairs	$1,261,684	$1,265,012	$1,130,617
Human Resources	$569,371	$771,720	$586,588
Engineering	$1,602,593	$1,391,979	$1,182,788
Accounting	$902,521	$816,540	$643,440
Water	$2,133,042	$0	$0
Pumping	$4,000,057	$4,802,804	$4,448,895
Transmission & Distribution	$3,032,924	$2,607,780	$2,736,139
Collections	$774,229	$662,956	$635,564
Treatment	$3,433,962	$2,252,576	$2,210,450
Disposal	$0	$1,331,508	$1,262,572
Depreciation	$4,839,600	$4,839,600	$5,089,296
Other Operating Expenses	$791,280	$0	$0
Administrative Costs Allocated	$0	($1,875,036)	($1,715,532)
Total Operating Expense	**$31,693,004**	**$27,847,641**	**$27,330,245**
Net Operating Income (Loss)	**($5,855,492)**	**($7,230,621)**	**($7,001,317)**

* - Revised after midyear Board approval.

** - Starting in FY 2027, a new chart of accounts was implemented resulting in differences in categories from previous years.

Summary of Expenditures by Year

Table 18 provides a breakdown of operating expenses by year. The table shows an increase in operating expenses in FY 2027 compared to FY 2026.

Table 18: Summary of Expenditures by Fiscal Year

Operating Expenses	FY 2027**	FY 2026*	FY 2025*
Salaries and Wages	$6,901,295	$5,970,412	$5,384,371
Benefits	$1,847,165	$4,464,142	$3,889,570
Materials and Supplies	$2,470,800	$2,527,424	$2,568,533
Outside Services	$6,358,093	$5,588,529	$6,126,646
Groundwater Replenishment Fees	($1,974,000)	($196,800)	($164,652)
Utilities	$2,862,589	$3,070,333	$2,848,175
Director's Fees	$165,000	$150,000	$150,000
Engineering	$398,300	$66,000	$66,000
Insurance	$368,600	$360,000	$245,000
Audit	$0	$139,200	$60,000
Long-Range Financial Plan (Rate Study)	$0	$84,000	$96,000
Legal	$490,000	$540,000	$414,000
Fixed Assets	$628,300	$1,664,197	$1,826,664
Depreciation	$4,839,600	$4,839,600	$5,089,296
Interest	$299,586	$600,036	$469,455
Standby Reports	$23,000	$23,000	$16,300
Dues and Subscriptions	$132,796	$83,848	$97,015
Training and Education	$294,102	$298,392	$262,759
Debt Issuance Cost	$0	$120,000	$0
Groundwater Management	$0	$0	$0
Other Expenses	$1,639,778	$296,880	$70,100
General District Allocation	$0	($1,875,036)	($1,715,532)
Total Operating Expenses	**$31,693,004**	**$28,814,157**	**$27,799,700**

* - Revised after midyear Board approval.

** - Starting in FY 2027, a new chart of accounts was implemented resulting in differences in categories from previous years.

Long-Range Financial Plans

To maintain its financial strength, the District uses a Long-Range Financial Rate Study and Model (Model) to forecast operating and capital expenditures over a 5-year period. The District developed the last Model in August 2025, incorporating multiple year revenue and expense assumptions used to address anticipated operating and capital expenditures, resulting in a dynamic financial report. The capital expenditures were based on the Capital Improvement Program and estimated program costs over a 5-year term. In addition, the Model provided the basis for certain criteria to be incorporated into financial policy development, such as debt management, and designated fund levels.

The results of the Model from Raftelis suggested a 9% increase to water rates and a 7% increase to wastewater rates in fiscal years 2026 through 2030 to fund the District's capital project spending and to maintain sufficient cash reserves. The District has followed this recommendation and increased the general sales and service rates as suggested in fiscal year 2026. The District is still working with Raftelis to update capacity and miscellaneous fees, such as new meter and backflow prevention device fees that are tied to specific users. We expect this to be completed in fiscal year 2027.





CAPITAL & DEBT

2027

MSWD
Mission Springs Water District

Mission Springs Water District

66575 Second Street
Desert Hot Springs, CA 92240
www.mswd.org
760-329-6448

CAPITAL & DEBT

Capital Improvements



For financial reporting purposes, a capital item is defined as an individual item with a cost of at least $10,000 and an estimated useful life of more than one year. Each year as part of the budgetary process, the District's staff contemplates capital needs for the coming fiscal year in conjunction with any capital plans that are in place. These annual analyses are based on facts known at the time of the preparation of the budget. The District's capital items include water and sewer infrastructure, facilities, equipment, and fleet.

The District's ongoing capital program represents improvements and/or replacements of critical infrastructure in both the water and sewer systems. District staff continually monitor system conditions and propose projects annually that will minimize system breakdown and increase system efficiencies. District vehicles and equipment are also part of the capital program. Because capital projects often span more than one fiscal year, appropriations of funds are carried over from one fiscal year to the next until the projects are completed. Funding for capital projects come from a variety of sources including rates, loans, grants, and assessment districts.

Summary of Reserve

Over the past several years, and because of the 2016 rate action, the District's reserves have stabilized. The Board and staff continue to monitor these levels to ensure the financial stability of the District in the future. These reserves enable the District to properly maintain and replace its necessary infrastructure as well as create an emergency reserve against external circumstances.

MSWD continues to maintain financial stability and strong reserves through prudent and conservative money management practices, despite volatile financial markets.

The District converted its treasury holdings to CalTrust. CalTrust has provided significantly better total investment returns for the District since joining in 2017. While complying with California Government Code 53601 and 53605, CalTrust seeks to attain as high a level of current income as is consistent with preservation of principal and aligned with the public agency funds

guidepost of Safety, Liquidity, and Yield. The District holds cash reserves for various purposes, the largest of which is a Capital Reserve Fund of approximately $69.6 million as of May 31, 2026 as shown in **Table 19** below.

Table 19: Summary of Reserve for FY 2026

Wells Fargo	Fund Total
Operating Cash Account	$34,474,506
CalTrust	
Liquidity Fund	$3,045,480
Short-Term Fund	$7,613,933
Medium-Term Fund	$24,433,043
Sub-Total CalTrust	**$35,092,456**
Total District Cash	**$69,566,962**



Capital Improvement Program Summary

The District maintains a 5-year Capital Improvement Program. Currently, there are 84 projects in the Capital Improvement Program totaling $181,002,189. Funds expended on capital projects in the current year will be spent on projects approved by the Board of Directors in previous years (continuing appropriations) as well as the current year. Continuing appropriations from FY 2026 total $181,043,636 and additional projects added during FY 2027 total $379,000. However, only 16 projects totaling $43,481,406 will be funded from the FY 2027 Budget as shown in **Table 20** below.

Table 20: Capital Improvement Program Summary for FY 2027

Total Continuing Appropriations from FY 2026 Budget	$181,043,636
Total Capital Projects added for FY 2027 Budget	$379,000
Total Capital Projects completed in FY 2026	($420,447)
Final Capital and Continuing Appropriations for FY 2027 Budget	$181,002,189
Funded Projects for FY 2027 Budget	$43,481,406

Of the $43,481,406 to be funded during FY 2027, it is expected that $12,234,393 will be funds collected from Assessment Districts and Grants, giving a positive cashflow to the District of $31,247,013 from the District's Capital Reserve Fund as shown in **Table 21** below.

Table 21: Capital Improvement Program by Funding Source for FY 2027

Budgeted Cash Outflow Related to Capital Projects	$43,481,406
Expected Proceeds from Assessment Districts and Grants	($12,234,393)
Expected Net Cash Outflow Related to Capital Projects	$31,247,013

Of the 16 projects in the 5-year Capital Improvement Program to be funded from the FY 2027 Budget, there is one project totaling $38,494,847 for the General District, 15 projects totaling $4,986,559 for the Water District, no projects for the Sewer District, and no equipment replacements as shown in **Table 22** below.

Table 22: Capital Improvement Program by Fund for FY 2027

Budgeted Cash Outflow Related to Capital Projects	$31,247,013
1 Capital Projects Benefiting the General District	$38,494,847
15 Capital Projects Benefiting the Water District	$4,986,559
0 Capital Projects Benefiting the Sewer District	$0
0 Equipment Replacements	$0

Capital Improvement Program Projects

The District maintains a 5-year Capital Improvement Program. Currently, there are 84 projects in the Capital Improvement Program totaling $180,949,189. Funds expended on capital projects in the current year will be spent on projects approved by the Board of Directors in previous years (continuing appropriations) as well as the current year. Continuing appropriations from FY 2026 total $181,043,636 and additional projects added during FY 2027 total $326,000. However, only 16 projects totaling $43,481,406 will be funded from the FY 2027 Budget as shown in **Table 23** below.

Table 23: Capital Improvement Program Projects for FY 2027

Description	Continuing Appropriations from FY 2026	Proposed/ Completed for FY 2027	Final for FY 2027	Fund in FY 2027 Budget
Well Site – Worsley Rd North – 27 Acres	$0	$0	$0	$0
1240Z Trans Line Quail/Terrace	$447,995	$0	$447,995	$0
Well #42	$1,549,251	$0	$1,549,251	$1,549,251
1530 Zone Redbud Tank #2 Land & Construction	$9,292	$0	$9,292	$0
I-10 & Indian Sewer Collection System	$57,332	$0	$57,332	$0
Mission Creek – 80 Acres	$2,993	$0	$2,993	$0
Regional Wastewater Reclamation Facility	$609,714	$0	$609,714	$0
Area M-2 (AD #15)	$10,654,243	$0	$10,654,243	$0
Conveyance Line from LS to RWRF	$324,194	$0	$324,194	$0
Chromium-6 Compliance Study	$697,440	$0	$697,440	$0
Area J-2	$120,140	$0	$120,140	$0
Horton WWTP Percolation Pond Rehabilitation	$13,819	($13,819)	$0	$0
Horton WWTP ASU Demolition	$122,198	$0	$122,198	$0
Horton WWTP Percolation Ponds (2)	$29,786	($29,786)	$0	$0
Areas H & I Design & Engineering	$433,446	$0	$433,446	$0
Block Wall & Fence at Terrace Reservoir	$200,340	$0	$200,340	$0

Description	Continuing Appropriations from FY 2026	Proposed/ Completed for FY 2027	Final for FY 2027	Fund in FY 2027 Budget
Booster Pump Rehab Program	$30,624	$0	$30,624	$0
Modular Enclosure-Chlorine Equip/Well Sites	$205,237	$0	$205,237	$205,237
Terrace Reservoir No. 1	$2,723,675	$0	$2,723,675	$0
Terrace Reservoir No. 2	$2,782,086	$0	$2,782,086	$0
Terrace Reservoir No. 3	$2,330,480	$0	$2,330,480	$0
Vista Reservoir Rehabilitation	$848,398	$0	$848,398	$0
Well Rehabilitation Program – Well 22	$941,994	$115,000	$1,056,994	$1,056,994
Horton WWTP Above Ground Piping & Appurtenance Rehab	$149,656	$0	$149,656	$0
Horton WWTP SCADA Upgrades	$88,928	($88,928)	$0	$0
Areas A & G Design & Engineering	$1,487,134	$0	$1,487,134	$0
Administration Building	$38,494,847	$0	$38,494,847	$38,494,847
2020 Water CIP Pipeline Replacement	$1,989,786	$0	$1,989,786	$0
Sewer System Collections	$188,992	$0	$188,992	$0
Well and Reservoir Sites Security Cameras	$222,708	$0	$222,708	$222,708
Emergency Backup Generator Well 27/31	$390,713	$0	$390,713	$0
Emergency Backup Generator Well 32	$280,109	$0	$280,109	$0
Emergency Backup Generator Well 37	$280,079	$0	$280,079	$0
Filtration for Horton WWTP	$1,388,204	$0	$1,388,204	$0
GQPP Area D3-1 Sewer Design	$2,302,953	$0	$2,302,953	$0
Reservoir Rehabilitation Program Design FY 2022	$120,000	$0	$120,000	$120,000
Well Rehabilitation Program Design FY 2022	$51,082	$0	$51,082	$51,082
Pierson Boulevard Slurry Seal Project	$183,000	$0	$183,000	$0

Description	Continuing Appropriations from FY 2026	Proposed/ Completed for FY 2027	Final for FY 2027	Fund in FY 2027 Budget
Riverside Co. Mountain View Resurfacing Project	$33,000	$0	$33,000	$0
Municode Website	$21,978	($21,978)	$0	$0
Municode Agenda	$12,786	($12,786)	$0	$0
Well 35 Rehabilitation	$2,586,772	$0	$2,586,772	$0
Well 34 Rehabilitation	$17,769	$0	$17,769	$0
Well 34/35 Intertie	$1,096,118	$0	$1,096,118	$1,096,118
19th-20th Ave & Little Morongo Roadway Project	$2,036,123	$211,000	$2,247,123	$0
Energy Conservation and Efficiency Services Plan	$532,513	$0	$532,513	$0
ERP System Replacements	$1,566,649	$0	$1,566,649	$0
Hurricane Hilary – 13th Avenue	$5,174	$0	$5,174	$0
Hurricane Hilary – Thomas Avenue	$7,584	$0	$7,584	$0
Hurricane Hilary – Mission Lakes Boulevard	$21,344	$0	$21,344	$0
GIS ESRI – SBITA	$8,097	$0	$8,097	$0
GIS Cityworks – SBITA	$266,743	$0	$266,743	$0
Walk Behind Trencher	$3,840	($3,840)	$0	$0
Axle Weighing System	$15,070	(15,070)	$0	$0
Horton Avigilon Camera System	$71,886	$0	$71,886	$0
Odor Control Grease Filter	$17,000	($17,000)	$0	$0
PSC – WPSV Intertie	$1,291,001	$0	$1,291,001	$0
Water Line Replacement in Easements	$62,000,000	$0	$62,000,000	$0
Gateway PLC Upgrade	$23,150	$0	$23,150	$23,150
Little Morongo Booster Install	$167,605	$0	$167,605	$167,605

Description	Continuing Appropriations from FY 2026	Proposed/ Completed for FY 2027	Final for FY 2027	Fund in FY 2027 Budget
Low Desert View Booster Rehabilitation	$66,326	$0	$66,326	$66,326
SCADA Server Upgrade	$9,471	$0	$9,471	$9,471
Terrace Booster Rehabilitation Project	$113,657	$0	$113,657	$113,657
Well 25A Rehabilitation	$104,211	$0	$104,211	$104,211
Well 26A Fencing & Electrical Pole Project	$56,901	$0	$56,901	$56,901
M-2 Waterline Replacement	$3,569,063	$0	$3,569,063	$0
GQPP AD – 18 Area D3-1 Water Main Replacement	$2,007,251	$0	$2,007,251	$0
GIS Vertical Asset Model	$103,698	$0	$103,698	$0
Replacement of Horton MW-1 / Rehab Well 11	$201,498	($201,498)	$0	$0
OPENGOV – Digital Budget/Procurement S/W	$78,984	$0	$78,984	$0
Well 28 Rehabilitation	$561,406	$0	$561,406	$0
Well Benchmark Survey	$8,644	$0	$8,644	$0
Well 30 Rehabilitation	$738,256	$0	$738,256	$0
CR(VI) Treatment Well Facilities (27/31, 29/37, 22/24, & 32)	$27,304,204	$0	$27,304,204	$0
CIMIS Weather Station	$21,898	$0	$21,898	$0
Dos Palmas Lift Station Motor Control Center Rehab	$246,724	$0	$246,724	$0
John Deere Backhoe (AQMD Grant Program)	$181,000	$0	$181,000	$0
New DHS Monitoring Well	$239,474	$0	$239,474	$0
Well 27 Motor & Equipment Eval and Replacement	$90,849	$53,000	$143,849	$143,849
Well 33/RES-BCT Solar Site Repairs	$298,830	$0	$298,830	$0
Wright RWRF Odor Control Unit Media Replacement	$15,741	($15,741)	$0	$0
Well 26A Repair Work	$50,000	$0	$50,000	$0
Well 26 Rehabilitation and Treatment	$205,700	$0	$205,700	$0
Well 26A Resin Exchange	$215,000	$0	$215,000	$0
Total	**$181,043,636**	**($41,447)**	**$181,002,189**	**$43,481,406**

Capital Improvement Program Project Information

Capital Improvement Project Information
New Administrative Building



LOCATION

VICINITY MAP



LIMITS OF PROJECT

PROJECT TITLE:
New Administrative Building

Job Number: 11621

PROJECT TYPE:
Facility Improvements

ESTIMATED SCHEDULE:
DESIGN: To be completed by 05/2027
CONSTRUCTION: 08/2027 – 07/2028

FUNDING SOURCE:
MSWD Funds, State Funds,
Grant Funds

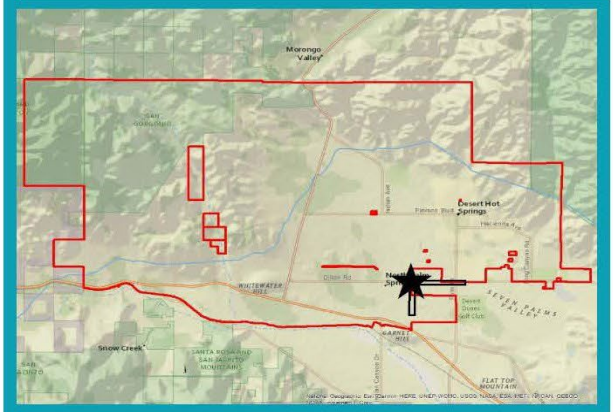
PROJECT MANAGER:
E. Weck

CIP ACCOUNT NO.: 101 General Fund

PROJECT DESCRIPTION: Mission Springs Water District strives to provide the best quality water and wastewater service to its customers. Over the past several decades, Mission Springs Water District has grown and seeks to construct a new Administrative Building to allow the District to grow and continue to provide service to its customers.

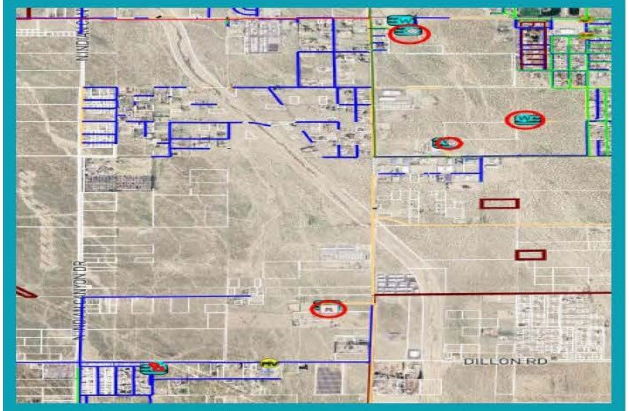
PROJECT BUDGET (FY 26/27):
DESIGN: $1,950,000
CONSTRUCTION: $37,050,000
TOTAL: $40,000,000

Capital Improvement Project Information
Chromium-6 Well Treatment Facilities



LOCATION

VICINITY MAP



LIMITS OF PROJECT

PROJECT TITLE:
Chromium-6 Well Treatment Facilities

Job Number: 11426

PROJECT TYPE:
Water Construction

ESTIMATED SCHEDULE:
DESIGN: 06/2027
CONSTRUCTION: 01/2027 – 12/2030

FUNDING SOURCE:
MSWD Funds
State Funds

PROJECT MANAGER:
E. Weck / S. Ledbetter

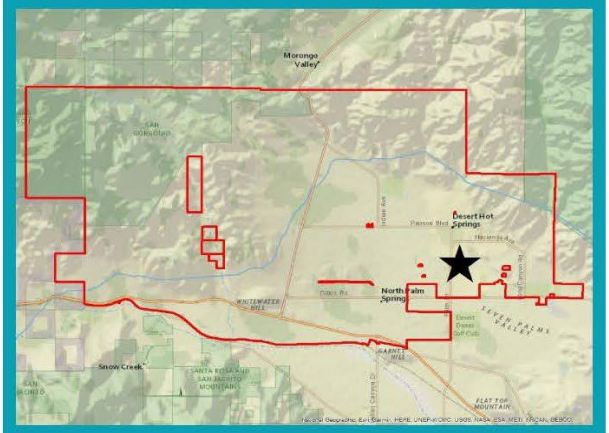
CIP ACCOUNT NO.: 201 Water Fund

PROJECT DESCRIPTION: MSWD's new West Valley Conveyance Line is one of three concurrent projects that will provide wastewater flows to the District's new Regional Water Reclamation Facility. The West Valley Conveyance Line project includes a force main from the existing Dos Palmas Lift Station at Dillon Road and Avenida Manzana to Little Morongo Road and Dillon Road. From there, a gravity line will bring flows down to the new regional plant.

PROJECT BUDGET (FY 26/27):
DESIGN: $910,000
CONSTRUCTION: $27,105,000
TOTAL: $28,015,000

Capital Improvement Project Information

Horton Wastewater Treatment Plant Upgrade – Tertiary Filtration



LOCATION

VICINITY MAP



LIMITS OF PROJECT

PROJECT TITLE:
HWWTP Upgrade – Filtration

Job Number: 11689

PROJECT TYPE:
Horton Wastewater Facility Improvements

ESTIMATED SCHEDULE:
DESIGN: 03/2022
CONSTRUCTION: On hold-pending grant funding

FUNDING SOURCE:
MSWD Funds

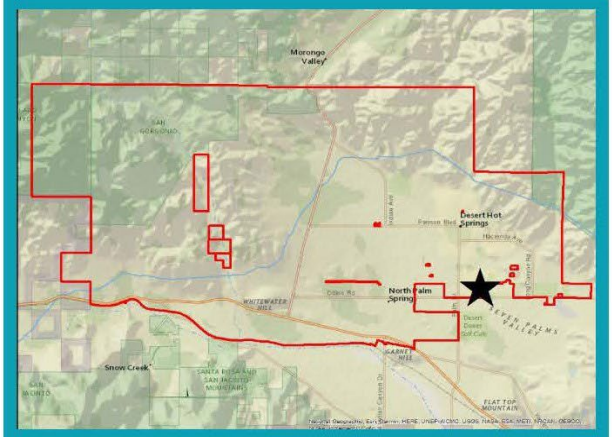
PROJECT MANAGER:
E. Weck/S. Ledbetter

CIP ACCOUNT NO.: 301 Sewer Fund

PROJECT DESCRIPTION: The Horton Wastewater Treatment Plant has experienced problems with poor infiltration rates in the percolation ponds due to the high concentration of suspended solids in the secondary effluent. The new WWTP Tertiary Effluent Filters will increase the pond efficiency as a reduction of the suspended solids concentration in the secondary effluent.

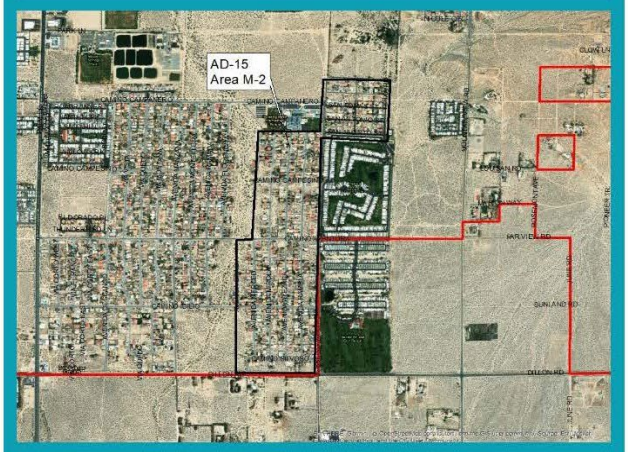
PROJECT BUDGET (FY26/27):
CONSTRUCTION: $1,360,000
INSPECTION/CONSTRUCTION ENGINEERING: $140,000
TOTAL: $1,500,000

Capital Improvement Project Information
M-2, Septic to Sewer Construction



LOCATION

VICINITY MAP



LIMITS OF PROJECT

PROJECT TITLE:
M-2 Septic to Sewer Construction

Job Number: 11425

PROJECT TYPE:
Septic tank abatement / Assessment District

ESTIMATED SCHEDULE:
DESIGN: 09/2022
CONSTRUCTION: 07/2026 – 12/2027

FUNDING SOURCE:
Assessment District 15 Proceeds
State Grant Funds

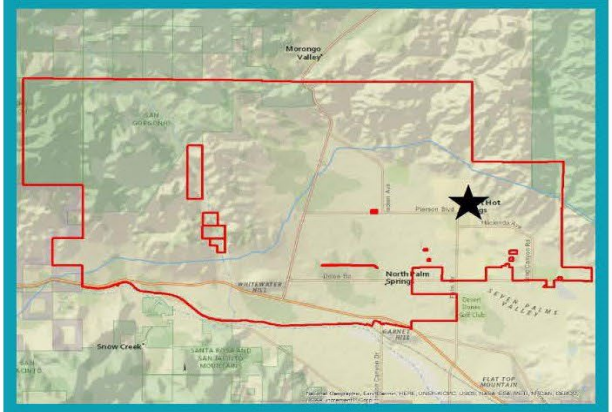
PROJECT MANAGER:
E. Weck/S. Ledbetter

CIP ACCOUNT NO.: 301 Sewer Fund

PROJECT DESCRIPTION: The Area M-2 Sewer Collection System will connect 695 parcels to the MSWD sewer systems and abate 405 on-site septic disposal systems. The Area M-2 Sewer Collection System is one of the three projects that comprise the Regional Water Reclamation Facility Project.

PROJECT BUDGET (FY 26/27):
CONSTRUCTION: $9,950,000
INSPECTION/CONSTRUCTION ENGINEERING: $1,500,000
TOTAL: $11,450,000

Capital Improvement Project Information
Terrace Reservoir 1



LOCATION

VICINITY MAP



LIMITS OF PROJECT

PROJECT TITLE:
Terrace Reservoir 1

Job Number: 11607

PROJECT TYPE:
Reservoir Tank Rehabilitation

ESTIMATED SCHEDULE:
DESIGN: 03/2021
CONSTRUCTION: On hold-additional funding needed

FUNDING SOURCE:
MSWD Funds

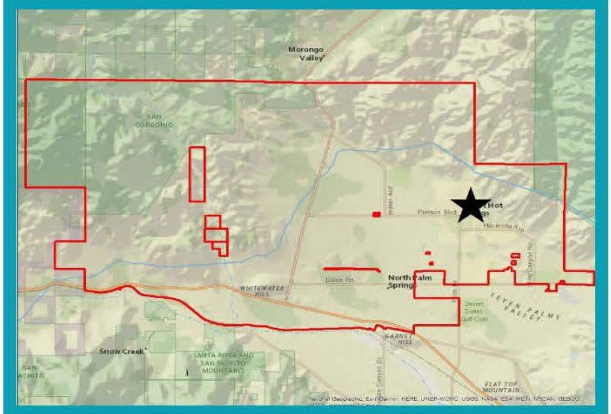
PROJECT MANAGER:
E. Weck / S. Ledbetter

CIP ACCOUNT NO. 201 Water Fund

PROJECT DESCRIPTION: District staff has identified required rehabilitation and maintenance of the Terrace Reservoirs site to enhance safety and operations and maintenance activities of the three existing reservoirs.

PROJECT BUDGET (FY 26/27):
CONSTRUCTION: $2,654,343
INSPECTION/CONSTRUCTION ENGINEERING: $100,000
TOTAL: $2,754,343

Capital Improvement Project Information
Terrace Reservoir 2



LOCATION

VICINITY MAP



LIMITS OF PROJECT

PROJECT TITLE:
Terrace Reservoir 2

Job Number: 11608

PROJECT TYPE:
Reservoir Tank Rehabilitation

ESTIMATED SCHEDULE:
DESIGN: 03/2021
CONSTRUCTION: On hold-additional funding needed

FUNDING SOURCE:
MSWD Funds

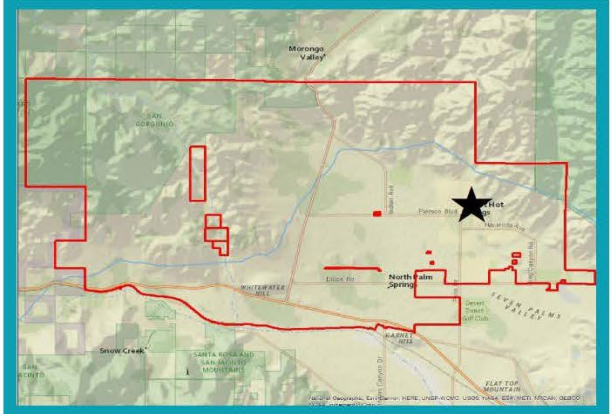
PROJECT MANAGER:
E. Weck / S. Ledbetter

CIP ACCOUNT NO. 201 Water Fund

PROJECT DESCRIPTION: District staff has identified required rehabilitation and maintenance of the Terrace Reservoirs site to enhance safety and operations and maintenance activities of the three existing reservoirs.

PROJECT BUDGET (FY 26/27):
CONSTRUCTION: $2,670,461
INSPECTION/CONSTRUCTION ENGINEERING: $144,000
TOTAL: $2,814,461

Capital Improvement Project Information
Terrace Reservoir 3



LOCATION



VICINITY MAP

LIMITS OF PROJECT

PROJECT TITLE:
Terrace Reservoir 3

Job Number: 11609

PROJECT TYPE:
Reservoir Tank Rehabilitation

ESTIMATED SCHEDULE:
DESIGN: 03/2021
CONSTRUCTION: On hold-additional funding needed

FUNDING SOURCE:
MSWD Funds

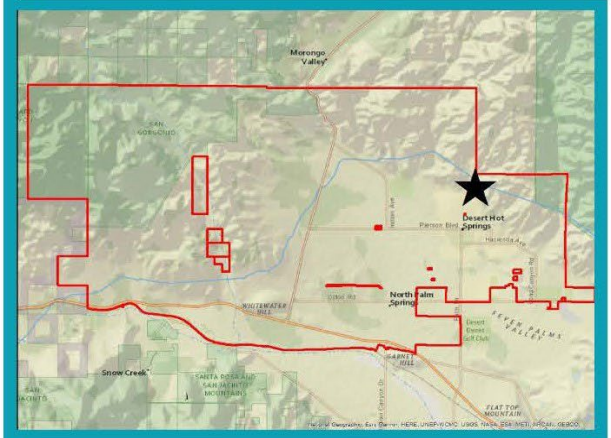
PROJECT MANAGER:
E. Weck / S. Ledbetter

CIP ACCOUNT NO. 201 Water Fund

PROJECT DESCRIPTION: District staff has identified required rehabilitation and maintenance of the Terrace Reservoirs site to enhance safety and operations and maintenance activities of the three existing reservoirs.

PROJECT BUDGET (FY 26/27):
CONSTRUCTION: $2,295,363
INSPECTION/CONSTRUCTION ENGINEERING: $66,000
TOTAL: $2,361,363

Capital Improvement Project Information
Vista Reservoir Rehabilitation



LOCATION

VICINITY MAP



LIMITS OF PROJECT

PROJECT TITLE:
Vista Reservoir Rehabilitation

Job Number: 11610

PROJECT TYPE:
Reservoir Rehabilitation/Upgrade

ESTIMATED SCHEDULE:
DESIGN: 05/2021
CONSTRUCTION: 01/2027 – 09/2027

FUNDING SOURCE:
MSWD Funds

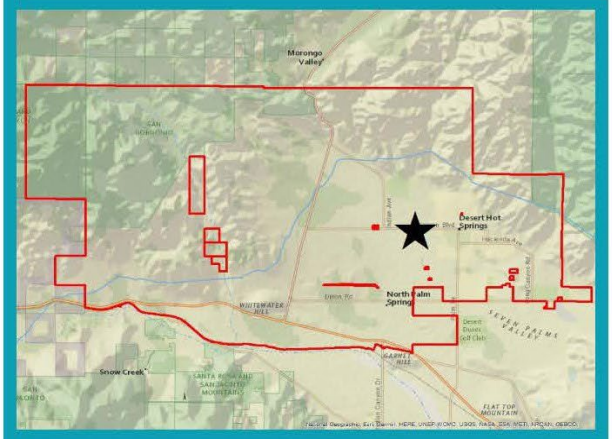
PROJECT MANAGER:
E. Weck / S. Ledbetter

CIP ACCOUNT NO. 201 Water Fund

PROJECT DESCRIPTION: Rehabilitation of existing 300,000 gallon reservoir.

PROJECT BUDGET (FY 26/27):
DESIGN: $170,000
CONSTRUCTION: $805,427
TOTAL: $975,427

Capital Improvement Project Information
Well 22 Rehabilitation



LOCATION

VICINITY MAP



LIMITS OF PROJECT

PROJECT TITLE:
Well 22 Rehabilitation

Job Number: 11611

PROJECT TYPE:
Reservoir Rehabilitation/Upgrade

ESTIMATED SCHEDULE:
DESIGN: 06/2023
CONSTRUCTION: 12/2025 – 07/2027

FUNDING SOURCE:
MSWD Funds

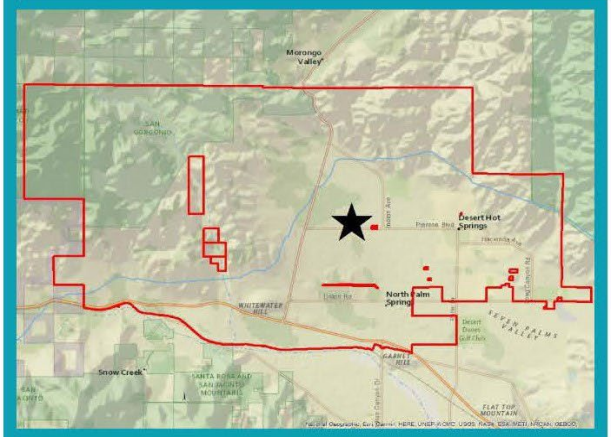
PROJECT MANAGER:
E. Weck / S. Ledbetter

CIP ACCOUNT NO.: 201 Water Fund

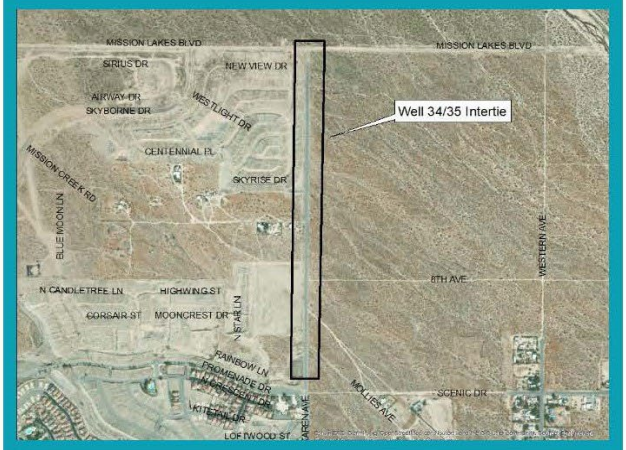
PROJECT DESCRIPTION: Well 22 needs maintenance and rehabilitation. Well improvements include downhole rehabilitation and chemical treatment, new discharge piping and outlet systems, electrical panels, and new pump improvements.

PROJECT BUDGET (FY 26/27):
CONSTRUCTION: $1,460,000
INSPECTION/CONSTRUCTION ENGINEERING: $100,000
TOTAL: $1,560,000

Capital Improvement Project Information
Well 34/35 Intertie



LOCATION



VICINITY MAP

LIMITS OF PROJECT

PROJECT TITLE:
Well 34/35 Intertie

Job Number: 11743

PROJECT TYPE:
Well Rehabilitation/Upgrade

ESTIMATED SCHEDULE:
DESIGN: 01/2026
CONSTRUCTION: 05/2026 – 02/2027

FUNDING SOURCE:
Developer Funded

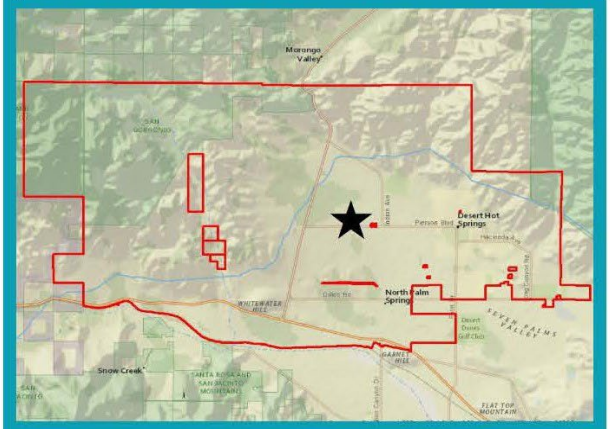
PROJECT MANAGER:
E. Weck

CIP ACCOUNT NO.: 201 Water Fund

PROJECT DESCRIPTION: 18-inch water main along Karen Avenue connecting Well 34 and Well 35.

PROJECT BUDGET (FY 26/27):
DESIGN: $100,000
CONSTRUCTION: $1,000,000
TOTAL: $1,100,000

Capital Improvement Project Information
Well 35 Equipment Installation



LOCATION

VICINITY MAP



LIMITS OF PROJECT

PROJECT TITLE:
Well 35 Equipment Installation

Job Number: 11741

PROJECT TYPE:
Well Rehabilitation/Upgrade

ESTIMATED SCHEDULE:
DESIGN: 09/2022 – 07/2023
CONSTRUCTION: 01/2024 – 12/2026

FUNDING SOURCE:
Developer provided deposit

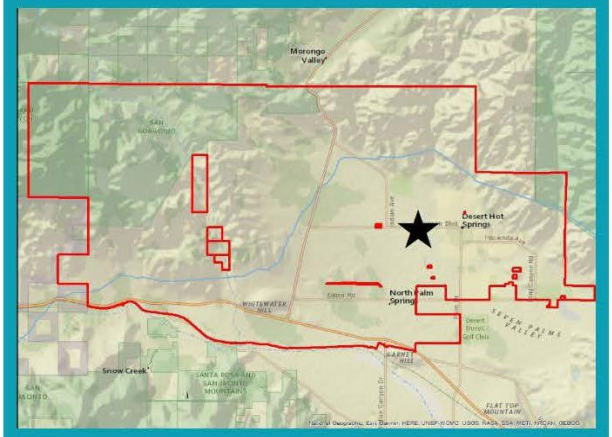
PROJECT MANAGER:
E. Weck / S. Ledbetter

CIP ACCOUNT NO.: 201 Water Fund

PROJECT DESCRIPTION: Well 35 was drilled as part of the original development of Skyborne. This project will provide the pump, motor, shelter, and all necessary electrical equipment to bring Well 35 into operation.

PROJECT BUDGET (FY 26/27):
DESIGN: $100,000
CONSTRUCTION: $2,955,990
TOTAL: $3,055,990

Capital Improvement Project Information
Well 42 Construction



LOCATION

VICINITY MAP



LIMITS OF PROJECT

PROJECT TITLE:
Well 42 Construction

Job Number: 11147

PROJECT TYPE:
Well Construction

ESTIMATED SCHEDULE:
DESIGN: 09/2020
CONSTRUCTION: 01/2021 – 12/2026

FUNDING SOURCE:
MSWD Funds

PROJECT MANAGER:
E. Weck / S. Ledbetter

CIP ACCOUNT NO.: 201 Water Fund

PROJECT DESCRIPTION: Currently, under construction, the well will provide an additional water source for MSWD's 1240 and 1400 pressure zones.

PROJECT BUDGET (FY 26/27):
CONSTRUCTION: $4,857,000
INSPECTION/CONSTRUCTION ENGINEERING: $350,000
TOTAL: $5,207,000

Debt Service Fund Detail

At the beginning of FY 2026 the District had approximately $3.9 million in outstanding long-term debt. This debt is related to the Groundwater Quality Protection Program which has been expanding the District's sewer collection system and converting septic systems in the area for over 20 years. It is secured by assessment districts (not sanitary sewer rates) passed by local voters and the District uses collections from those assessments to service the debt payments. **Table 24** is a summary of the long-term debt and the amounts expected to be paid in FY 2027.

Table 24: Long-Term Debt Service Fund Detail for FY 2027

Long-Term Debt	Beginning Balance	(Paid)/Added in FY 2026	Ending Balance	Due in FY 2027
COP – U.S. Department of Agriculture – 2001	$212,301	($9,401)	$202,900	$9,800
Installment Sale Agreement – City National Bank – 2017	$433,924	($279,426)	$154,498	$102,256
Installment Sale Agreement – Hollman Capital Corporation	$163,902	($17,297)	$146,605	$18,430
SWRCB – Assessment District #12, Phase IV	$2,445,755	($248,703)	$2,197,052	$254,175
Installment Sale Agreement – City National Bank – 2013	$685,138	($97,266)	$587,872	$68,437
Total Long-Term Debt	**$3,941,020**	**($652,093)**	**$3,288,927**	**$453,098**

Certificates of Participation – United States Department of Agriculture

On July 3, 2001, the District entered into a loan agreement with the U.S.D.A. and a Certificate of Participation (COP) was issued for $348,000 to improve waterlines in Improvement District "E". The interest rate on the COP is 4.50% per annum. Interest on the COP is payable semi-annually on February 1 and August 1. Principal matures February 1 of each year through 2041.

Assessment District #12, Phase I and Phase II – Refinance

On June 26, 2006, the District entered into an installment sale agreement with La Salle National Bank in the amount of $2,200,000. The proceeds from this contract were used to purchase Assessment Districts #12 bonds totaling $1,630,024. The bond proceeds were used for Assessment District #12, Phase I costs.

On September 21, 2007, the District entered into an installment sale agreement with La Salle National Bank in the amount of $1,600,000. The proceeds from this contract were

used to purchase Assessment Districts #12 bonds totaling $1,329,530. The bond proceeds were used for Assessment District #12, Phase II costs.

On December 22, 2017, the District entered into a loan agreement with City National Bank in the amount of $2,395,013. The proceeds from this contract were used to pay off the Phase I and II La Salle National Bank loans in the amount of $1,309,488 and $1,019,315, respectively. The interest rate on the loan agreement is 2.90% per annum. Principal and interest on the bonds is payable semi-annually on March 21 and September 21. Principal matures through September 21, 2027.

Mission Creek – 80 Acres

On June 21, 2013, the District entered into an installment sales agreement with Holman Capital Corporation in the amount of $328,000. The proceeds were used to purchase 80 acres of land for future water system improvements. The interest rate on the installment sales agreement is 4.19% per annum. Interest on the bonds is payable semi-annually on June 7 and December 7. Principal matures on June 7 and December 7 of each year through June 7, 2033.

State Water Resources Control Board – State Revolving Fund Assessment District #12, Phase IV

In August 2012 (and later amended in January 2013), the District entered into a financing agreement with the State Water Resources Control Board (SWRCB) for a total amount of $9,957,921 for the purpose of financing Assessment District #12, Phase III costs. This program is a loan from the Clean State Revolving Fund (SRF) of which 50% of the principal amount was forgiven. This was made possible through Federal Environmental Protection Agency funds granted to SRF. The interest rate on the loan is 2.2% with principal and interest payments due annually on January 31 beginning in 2015, final payment is due January 31, 2034.

Assessment District #12, Phase V

On December 19, 2013, the District entered into an installment sales agreement with City National Bank in the amount of $1,215,000. The proceeds were used to purchase Assessment District #12 bonds totaling $1,096,329 for Phase V costs. The interest rate on the installment sales agreement is 4.10% per annum. Interest on the bonds is payable semi-annually on March 2 and September 2. Principal matures on March 2 and September 2 of each year through 2029.



DEPARTMENT INFORMATION

2027

MSWD
Mission Springs Water District

Mission Springs Water District

66575 Second Street
Desert Hot Springs, CA 92240
www.mswd.org
760-329-6448

DEPARTMENT INFORMATION

Department Descriptions

The Board of Directors set the overall organization-wide goals that support the District's mission and strategic plan. The departments are the link that converts planning into action. Departments are overseen by a manager, and the departments are organized into divisions which are overseen by a director. There are currently 59 funded full-time equivalent (FTE) positions reflected in the current budget as shown in **Table 25** below.

Table 25: Organizational Divisions, Departments, and FTEs for FY 2027

Division	Department	FY 2027 FTEs
Executive	Board of Directors	(5)
	Office of the General Manager	2
Administration	Administration	5
	Customer Service	4
	Human Resources	2
	Innovation & Technology	1
Engineering	Engineering & Water Resources	6
Finance	Accounting	5
	Finance	1
Operations & Maintenance	Construction & Maintenance	10
	Field Services	4
	Operations Administration	6
	Water Production	4
	Wastewater Collection	2
	Wastewater Treatment & Disposal	7
	Total FTEs	**59**

Note: Board of Directors are not included in the FTE count for the District.

Each department summary that follows will be formatted as follows, if applicable:

- Description of Services Provided – A short overview and explanation of the services provided by the department.
- Staffing – Full-time and part-time positions budgeted for the department.
- 2025-2026 Accomplishments – Notable achievements accomplished by the department.
- 2026-2027 Goals and Objectives – The planned tasks of the department that support the overall District goals as outlined in the Strategic Plan.
- Performance Measures – Specific quantitative measures of work performed by the department that help the District to assess the effectiveness and efficiency of the department.
- Operating Expenses – A summary of budget data by expense type of the current budget year.

Executive Division

Board of Directors & Office of the General Manager

Description of Services Provided

Mission Springs Water District is governed by a Board of Directors consisting of five publicly elected members. The Board meets the third Monday of every month at the District's Administration Building located at 66575 Second Street in the City of Desert Hot Springs, California. The Board's activities relate to the governing of the District, establishing policy through approval of the budget, resolutions and ordinances, and participating in community affairs, intergovernmental relations, and participation at selected water organization activities. Salaries and benefits included in this division represent the staff needs to manage and support the Board of Directors.

The General Manager is the liaison to the Board of Directors and oversees the day-to-day operations of the District. The General Manager provides leadership and initiates strategic planning to implement the goals and vision of the Board of Directors. The Strategic Plan provides guidance in establishing long-term organizational goals and the General Manager utilizes the talent and skills of the entire staff to fulfill the organizational objectives.

Staffing

The Board of Directors consists of five publicly elected members. The Office of the General Manager consists of two FTE positions as shown in **Table 26** below.

Table 26: Office of the General Manager FTE Positions for FY 2027

Office of the General Manager	FY 2027 FTEs
Board of Directors	(5)
General Manager	1
Assistant General Manager	1
Total	**2**

Note: Board of Directors are not included in the FTE count for the District.



2025-2026 Accomplishments

SMART Goal 1.2 - When customers better understand what the District does and how it operates, they will recognize MSWD's work to protect and provide water services. Enhancing customer education will increase trust in the District's services.

- Staff met with the public safety commissioner to discuss fire hydrant pressures.

SMART Goal 1.4 - Cultivate positive community relations and partnerships with industry, media, and legislative contacts.

- Riverside LAFCO Election discussed at Board meeting.
- The MSWD Board and staff participate in State and Federal CSDA and ACWA Committees. We have also participated in ACWA and CSDA State and Federal Lobby days/efforts and have participated in individual meetings with our legislators.
- CSDA Committee and Expert Team Participation
- ACWA Region 9 Board Meeting and Tour of Wright Regional Water Reclamation Facility.

SMART Goal 2.1 - Ensure excellence in regulatory compliance.

- Share best practices and collaborate with other water districts in the Coachella Valley through our consultant to develop a cost-effective approach to managing Chromium-6 levels within our water supply.
- Ensure the District's Chromium-6 plan is incorporated in the Long-Range Financial Plan and that any capital projects are incorporated into the Five-Year CIP Program.

SMART Goal 3.3 - Enhance transparency in financial reporting by adopting best practices and ensuring timely and accurate financial disclosures.

- Update of Board Affiliation List, June 2025.
- Annual Update of Board Affiliation List, January 2026.

SMART Goal 4.2 - Update Existing Water and Wastewater Master Plans.

- The District has drafted a mutual services agreement and is awaiting feedback from all parties.

SMART Goal 7.2 - Expand leadership development programs to enhance the knowledge and skills of employees.

- The District continues to actively participate in these organizations to enhance professional development opportunities for staff, leverage industry resources/networking, and develop training programs.
- The Board of Directors Onboarding Program is in development.
- MSWD is continuing to hold all-hands meetings at least once each quarter.
- Election of MSWD Board Officers for 2026.

SMART 7.5 - Cultivate a positive culture and teamwork among staff.

- Appointments to Board Standing Committees.

2026-2027 Goals and Objectives

SMART Goal 1.2 - When customers better understand what the District does and how it operates, they will recognize MSWD's work to protect and provide water services. Enhancing customer education will increase trust in the District's services.

- Continue providing Water 101 presentations for schools, service organizations, and elected officials.

SMART Goal 1.4 – Cultivate positive community relations and partnerships with industry, media, and legislative contacts.

- Cultivate supportive and positive relationships with federal, state, and local agencies that may impact District operations.
- Participate in ACWA, CASA, CSDA, and other industry committees to help shape industry trends and bring back best practices to the organization.

SMART Goal 2.1 – Ensure excellence in regulatory compliance.

- Chromium-6 MCL, share best practices and collaborate with other water districts in the Coachella Valley through our consultants to develop a cost-effective approach to managing Chromium-6 levels within our water supply.

SMART Goal 3.3 - Enhance transparency in financial reporting by adopting best practices and ensuring timely and accurate financial disclosures.

- Foster a culture of financial responsibility and accountability across the organization.

SMART Goal 4.2 - Update Existing Water and Wastewater Master Plans.

- Execute a mutual services agreement with Coachella Valley Water District (CVWD) to serve customers in the CVWD service territory without water/sewers access.

SMART Goal 7.2 – Expand leadership development programs to enhance the knowledge and skills of employees.

- Leverage our member organizations, including ACWA, AWWA, CSDA, and CWEA to implement training initiatives to support leadership and succession planning to ensure a continuous pipeline of qualified individuals.
- Create a Board of Directors onboarding program that provides new board members with resources and information to streamline their transition onto the Board.
- Continue to hold regular GM/All-Hands meetings to create dialogue and promote organizational culture.

SMART Goal 7.5 – Cultivate a positive culture and teamwork among staff.

- Other key success measures.

Operating Expenses

The FY 2027 operating expenses for the Board of Directors are $438,734 as shown in **Table 27** below.

Table 27: Board of Directors Operating Expenses by Fiscal Year

Operating Expenses	FY 2027	FY 2026	FY 2025
Salaries and Wages	$104,248	$97,416	$88,404
Benefits	$76,306	$74,148	$64,488
Materials and Supplies	$1,200	$1,200	$1,200
Outside Services	$28,500	$136,500	$130,200
Director's Fees	$165,000	$150,000	$150,000
Training and Education	$63,480	$63,480	$52,000
Total Operating Expenses	**$438,734**	**$522,744**	**$486,092**



Administration Division

Administration Department

Description of Services Provided

The Administration Department is responsible for the overall day-to-day management of the District. Daily management includes the planning, control, direction, and evaluation of the District's programs and resources. Administration staff researches and prepares recommendations for consideration by the Board of Directors on issues facing the District. Vested in the Administration Department is the primary responsibility for assuring that Board policies are properly administered. The operating cost of the Administration Department goes toward conservation, legal services, water resource activities, training, professional memberships, policies, procedures, and analysis and reporting of goals and outcomes of the District.

Public Affairs is responsible for government and legislative affairs, community outreach, conservation and water-use efficiency, and educational programs. In addition, the department is responsible for coordinating special events, and conducts outreach with customers, stakeholders, and legislative staff members. Public Affairs also develops a variety of multi-media materials and campaigns to provide information to our community through a variety of methods to help our customers learn about and understand our local water supply, infrastructure, and related issues.

Staffing

The Administration Department consists of five FTEs as shown in **Table 28** below.

Table 28: Administrative FTEs for FY 2027

Administration Department	FY 2027 FTEs
Programs & Public Affairs Specialist	1
Business Analyst	1
Contract Analyst	1
Executive Assistant	1
GIS Specialist	1
Total	**5**

2025-2026 Accomplishments

SMART Goals 1.1 - Develop and initiate an annual plan to increase customer outreach and engagement through various communication channels, technologies, and community events. The goal is to enhance customer trust, satisfaction, and understanding of water services with ongoing refinement of the communications plan and its goals.

- MSWD Public Affairs created a monthly plan highlighting essential topics that should be shared, promoted, and advertised.
- MSWD has employed a variety of communication mediums including monthly customer newsletters, social media engagement, monthly informational bill inserts, and more.
- MSWD participates in a wide variety of community activities to communicate with and engage the community.
- Increased outreach and now provide newsletter updated to MLCC and Skyborne residents in their monthly newsletters. Also started sharing updates with carious community organizations, including Friends of the Library and DHS Women's Club.
- The first draft of the refined Communications Plan was created in April 2024 for FY 2025.
- Communicated through monthly customer newsletters, bill inserts, and social media channels.
- Created a water quality section on our website, including information on Chromium-6, PFAS, and other water quality issues.
- Held multiple public workshops directly related to Chromium-6. Advertised these on traditional and social media platforms and provided video recordings that are available on our website.
- The MSWD Strategic Plan was published on mswd.org.
- Provided digital copies of the Strategic Plan to employees , changed the performance evaluation, and changed the MVV posters around the MSWD offices.
- Released a news release, customer newsletter story, Desert Sun editorial, and advertorials in El Informador and Uken report announcing the adoption of the Strategic Plan. We also posted paid and unpaid social media on local sites.
- Continued Water 101 workshops and educated customers about the agency and its role.

SMART Goal 1.2 - When Customers better understand what the District does and how it operates, they will recognize MSWD's work to protect and provide water services. Enhancing customer education will increase trust in the District's services.

- Participated in multiple school presentations and CV Water Counts Academy.
- MSWD has offered Water 101 to all Safety, Planning, and newly elected City Council after the elections, pending confirmation/calendaring.

- Monthly Water Talks were held during 2025
- Building on the Water 101 and Water Talk success, we are offering infrastructure tours in 2025.
- Customer service has been provided with water quality / Chromium-6 talking points and information.
- REAL Academy, Mission Creek Tours, Career Days, Calendar Contest, LivingWise Program, Summer Camp, Project WET Teach Training.
- The District has developed intern program that allows students from the DHS High School REAL Academy the opportunity to participate in 2-3 week internships at MSWD giving them real world experience in the water industry.
- The District has created a 3D modeling project with he REAL Academy that focuses on the aquifer and replenishment. The model was unveiled April 2024 in honor of Earth Day and is being displayed at the Cabot Museum. Students are working on a 2025 version that will be unveiled in April 2026.
- Staff met with the public safety commissioner to discuss fire hydrant pressures.

SMART Goal 1.3 - Deliberate customer outreach also has a ripple effect of educating employees about the District. Employees can serve as ambassadors for the District, helping create and strenghten customer relationships.

- The Hub (internal intranet) was developed and rolled out to employees on June 27th, 2024.
- Employees are offered the opportunity to join the CV Water Counts Academy Annually.
- New employees are taken on tours of the District that include visiting various facilities such as the Horton and Wright plants, well sites, and reservoir sites.

SMART Goal 1.4 - Cultivate positive community relations and partnerships with industry, media, and legislative contacts.

- The District has implemented and upholds an Administrative Code, and has made governing resolutions and ordinances available on the MSWD website, ensuring transparency for the public and other stakeholders.
- Cal OES Hazard Mitigation Grant – Would provide seismic retrofitting to one of the main reservoir sites in the District, in turn, protecting the water supply available to our customers.
- ID-E Intertie Design Project – Would allow the District to take the first steps in developing the design for an intertie between the WPSV and PSC water systems. This intertie would provide resiliency to the water systems, ensuring customers have reliable supply.
- CIMIS Weather Station Project –Funding inquiry form to be completed and submitted to CFCC. Project location will be Mission Springs CC golf course.
- Community Project Request submitted to Congressman Ruiz and Senator Padilla's offices. Staff are continuing to follow-up with the Army Corps.

- CWEA CORBS Awards: Community Engagement & Outreach Project of the Year, Operator of the Year, Collections System Person of the Year, and Outstanding Young Professional Award.
- Berley Springs Water Tasting Competition – MSWD continues to supply award-winning water to its customers as proven again in 2025 with a bronze medal award.
- The District continues to attend events and maintain relationships with various industry professionals from other water agencies and trade groups.
- Various media outlets are used for regular press releases.
- Federal Advocacy Services – Capri & Clay, Government Relations
- Acknowledge MSWD Legislative Platform
- California Advocacy Services – CA Lobby

SMART Goal 2.1 - Ensure excellence in regulatory compliance.

- The District actively monitors federal, state, and local regulations.
- GIS application published to MSWD website for public viewing.
- The District continues to communicate with regulators, review changes to regulation, and participate in regional efforts around regulation.
- Submitted state required Conservation as a Way of Life Reporting
- A funding inquiry form is submitted to CFCC for the project to be located at Mission Springs golf course.
- The District continues to administer a turf rebate program that will contribute to achieving state-set conservation targets.
- Approval of Contract with Corona Environmental Consulting for Preliminary Design of Chromium-6 Treatment Facilities.

SMART Goal 2.2 - Support/Advocate regional development of local water supply and reduce reliance on imported supply.

- The District has had feasibility studied performed for recycled water and is currently looking into grant funding for the design of a NPW project for local school irrigation.
- The West Palm Springs Village-Pal Springs Crest Intertie Project is part of this plan. Ultimately, the two ID-E systems will be connected via interconnection, then ultimately, the ID-E area connected to the “main” MSWD system via interconnection.
- The District is reviewing recent MWELO changes and will update requirements to include native plantings SPRING/SUMMER 2025.

SMART Goal 3.2 - Control costs and manage debt responsibly.

- Adoption of Ordinance 2025-01 Establishing a Procedure for Property Owner Objections to Proposed Water/Sewer Fees or Special Assessments.

SMART Goal 4.3 - Maintain and renew assets while facilitating strategic Capital Improvements.

- Grant Application for Planning of West Palm Springs Village – Palm Springs Crest Water Systems Backup Intertie Project. This will tie the two ID-E systems together building resiliency and ultimately working toward getting the ID-E system connected to the MSWD "main" system.

SMART Goal 4.5 - Ensure the District is prepared to react to manmade and natural emergencies.

- The District is pursuing funding through CalOES subrecipient grant (funded by FEMA) for the Terrace Reservoir site which is the heartbeat of the entire water system. CalOES has completed their review of projects and is in the selection phase.

SMART Goal 5.2 - Fleet electrification.

- Staff continue to monitor California's ACF regulations and have developed a timeline for when electric vehicles will need to be introduced into the fleet.
- MSWD has provided the state with its Advanced Clean Fleet Reporting data and continues to update as necessary.
- Staff continue to monitor funding opportunities for fleet EVs through HVIP and other funding sources.

SMART Goal 6.1 - Embracing technological solutions that align the District with industry best practices and modern standards.

- The District has implemented and upholds an Administrative Code and has made governing resolutions and ordinances available on the MSWD website, ensuring transparency for the public and other stakeholders.
- MSWD has adopted a new OpenGov procurement system, which will help with solicitations and require appropriate sign-off.
- The District is reviewing its procurement guidelines and will bring the Board updated policies in Spring 2025.
- MSWD is currently updating its record retention policy. Legal has reviewed it, and a new policy will be brought to the board later this spring.
- Adoption of MSWD Artificial Intelligence Tools Policy 2025-01
- The district has implemented and upholds an Administrative Code, and has made governing resolutions and ordinances available on the MSWD website, ensuring transparency for the public and other stakeholders.

SMART Goal 6.2 - Hire a designated GIS employee and integrate asset management within the MSWD work order management system.

- The District GIS Specialist has begun the process of transitioning the District from Nobel to City works.
- Utilizing ArcGIS programs to enhance data collection of Engineering and Customer Service requests (e.g. Fire Flow, Water/Sewer FRIs, Will Serve Letters, Report Water Waste to MSWD).

SMART Goal 7.3 - Recruit and retain employees.

- MSWD has partnered with the DHS High School REAL Academy for various intern positions throughout the District.
- MSWD participates with all three Coachella Valley School Districts to provide CTE specific teaching request.

SMART Goal 7.5 - Cultivate a positive culture and teamwork among staff.

- The creation of the MSWD Intranet in June 2024 – The Hub, a place for employees to find resources and information.
- The District actively participates in multiple on-site and community activities (e.g. LifeStream Blood Drives, DHS Holiday Parade, and various other community events).

2026-2027 Goals and Objectives

SMART Goals 1.1 - Develop and initiate an annual plan to increase customer outreach and engagement through various communication channels, technologies, and community events. The goal is to enhance customer trust, satisfaction, and understanding of water services with ongoing refinement of the communications plan and its goals.

- By the end of the second quarter 2024, identify and design an annual plan outlining deliberate strategies to increase customer outreach and engagement.
- Leverage a mix of communication channels, technologies, and community events to convey information and engage with the community effectively.
- Cultivate a vital customer service focus through communicating and engaging with the community on matters important to our region.
- Survey customer groups involved in water-related events (e.g., construction activities, service interruptions, water quality changes, emergencies, and other vital issues) to hear about the customer experience and determine if MSWD can improve how the event is handled.
- Refine the communications plan annually based on feedback, evolving customer needs, and emerging communication trends.
- Incorporate District initiatives, including Chromium-6, conservation and fleet electrification, and other mandated projects so that customers udnerstand DIstrict operations and mandates better.
- Communicate the goals of the strategic plan to both internal and external customers. Improve recognition and familiarity of MSWD and the services we provide. Differentiate the District from its State Water Contractor and City, and clearly explain the nexus between the agencies. Use regular customer polling to document progress made in this area.
- Improve recognition and familiarity of MSWD and the services we provide. Differentiate the District from its State Water Contractor and City, and clearly

explain the nexus between the agencies. Use regular customer polling to document progress made in this area.

SMART Goal 1.2 - When Customers better understand what the District does and how it operates, they will recognize MSWD's work to protect and provide water services. Enhancing customer education will increase trust in the District's services.

- Continue providing Water 101 presentations for schools, service organizations, and elected officials.
- Hold monthly Water Talks to engage and educate the public on water issues facing our valley and state water systems. Include information on District infrastructure, water quality, financials, and/or future water issues.
- Establish a communication plan that empowers our customer service workers to be brand ambassadors and build relationships with the public.
- Increase school opportunities and expand the Groundwater Guardian activities within the schools.
- Partner with the DHS High School Real Academy to increase school opportunities for students to learn more about the District.

SMART Goal 1.3 - Deliberate customer outreach also has a ripple effect of educating employees about the District. Employees can serve as ambassadors for the District, helping create and strenghten customer relationships.

- Create an internal Intranet as a hub for employee communications.
- Promote water outreach opportunities to employees, like the CV Water Counts Academy.
- Enhance and strengthen the organizational culture by promoting the District's Strategic Plan, Mission, Vision, and Values. Work with Human Resources to add these to the employee evaluation process.
- Resume employee tours and onboarding programs so new employees can learn about our operations better.

SMART Goal 1.4 - Cultivate positive community relations and partnerships with industry, media, and legislative contacts.

- Create a culture of transparency and provide comprehensive information on the MSWD website.
- Pursue grants and projects that would benefit our customers.
- Apply for and receive individual and organizational certifications for leadership, transparency, and excellence and publish these accomplishments as an example of MSWD's leadership within the water/wastewater industries.
- Cultivate positive relationships with key industry professionals to stay informed and gather feedback.

- Develop and enhance media relationships and write and distribute press releases promptly to communicate topics important to the community. Share these stories on social media and to industry publications for greater pickup.
- Identify and influence legislation that aligns with the District's Legislative Platform and continue to foster positive relationships with city, county, state, and federal legislators.

SMART Goal 2.1 - Ensure excellence in regulatory compliance.

- Actively monitor new regulations and engage in the rulemaking process.
- Lead & Copper Rule, develop a lead service line inventory and make it publicly available.
- Conservation as a Way of Life, continue to work with regulators to address the feasibility of state-set conservation goals. Solicit grant support to help pay for an MSWD weather station to obtain better precipitation and evaporation rates in our service area.
- Chromium-6 MCL, Increase transparency, create an education outreach plan to share the District's approach with the community, and increase overall awareness of water quality and supply issues.
- Conservation as a Way of Life, enhance customer rebate programs to include water-saving appliances like dishwashers, clothes washers, and high-efficiency toilets.
- Budget for and incorporate a Conservation as a Way of Life engagement campaign into the annual customer communications plan.
- Solicit grant funding to develop an Evaporative Cooler Maintenace and Replacement Program.
- Review the turf rebate program and target outreach effort to customers with turf.
- As part of the new Critical Services Center, construct a new demonstration garden to encourage the use of native drought-resilient plants.

SMART Goal 2.2 - Support/Advocate regional development of local water supply and reduce reliance on imported supply.

- Explore options and grant funding to create a financially feasible recylced water program (looking at potable and non-potable options) at the Horton and Wright facilities.
- As part of the Water Master Plan, include projects that connect the MSWD IDE areas to the MSWD "main" system.

- Work with the City and other water districts to encourage the use of native drought-resilient plants; work with the City to add to developer requirements.

SMART Goal 3.2 - Control costs and manage debt responsibly.

- Limit the impact of unexpected expenditures.

SMART Goal 3.3 - Enhance transparency in financial reporting by adopting best practices and ensuring timely and accurate financial disclosures.

- Keep customer bills fresh and straightforward while providing sufficient information about charges and water use.
- Provide information to customers about internal versus external cost of services and pass through appropriate Replenishment Assessment Charges and City of Desert Hot Springs Utility Users Tax increases.
- Other Key Success Measures.

SMART Goal 4.3 - Maintain and renew assets while facilitating strategic Capital Improvements.

- Build a connection to the MSWD IDE areas to the MSWD “main” system.

SMART Goal 4.5 - Ensure the District is prepared to react to manmade and natural emergencies.

- Ensure earthquake retrofitting of critical infrastructure is included in long-term planning activities, protecting District assets and those of the customers we serve.

SMART Goal 5.2 - Fleet electrification.

- Continue monitoring changes to fleet electrification mandates and work with regulators to ensure mandates are feasible.
- Create a strategy that meets upcoming fleet electrification regulations and considers operational requirements. A financial analysis includes ongoing maintenance costs and the cost of electricity versus traditional fuel.
- Pursue grant opportunities to fund the inclusion of Electric Vehicles in our fleet and provide funding for necessary charging infrastructure.

SMART Goal 6.1 - Embracing technological solutions that align the District with industry best practices and modern standards.

- Ensure information systems planning is aligned with the District’s Strategic Plan.
- Continue to enhance purchasing processes to streamline staff processing times while ensuring appropriate approvals are met.
- Adopt a records retention policy, incorporate retention schedules into processes, and automate them into a new computer system.
- Look for additional ways to leverage technology and increase staff efficiency and operational savings. Information systems should support effective decision-making, system integration, reliable data, and decreased redundancy.
- Other Key Success Measures.

SMART Goal 6.2 - Hire a designated GIS employee and integrate asset management within the MSWD work order management system.

- Review the existing Nobel platform and ensure it meets the District’s ongoing needs. Integrate data collection and analysis to allow for data-driven decision-making based on real-time data.

- Integrate data collection and analysis to allow for data-driven decision-making based on real-time data.

SMART Goal 7.3 - Recruit and retain employees.

- Create an internship program to increase opportunities for students and professionals, supporting industry employment growth and building a robust recruitment pool.
- Foster collaborations with educational institutions to create pathways for talent to enter and thrive in the organization. Continue to investigate opportunities with local Colleges to create Career Technical Education pathways for some of our hard-to-fill positions.

SMART Goal 7.5 - Cultivate a positive culture and teamwork among staff.

- Ensure the lines of communication are open for all employees.
- Employees experience camaraderie and teamwork through on-site employee events, and the company continues to recruit employees to the events committee to avoid committee burnout.

Performance Measures

Table 29 shows the specific quantitative performance measures of work performed by Public Affairs that help the District assess the effectiveness and efficiency of the department.

Table 29: Performance Measures for Public Affairs

Activity	2023	2024	2025
Toilet Rebates	15	24	27
Toilet Rebates ($)	$2,400	$3,830	$3,132
Turf Rebates	13	3	1
Turf Rebates	$104,426	$4,449	$34,920
Clothes Washer Rebates	-	12	8
Clothes Washer Rebates	-	$1,650	$1,200
Smart Controller Rebates	-	10	9
Smart Controller Rebates	-	$7,054	$1,194
Conservation Kits	35	65	63
Bottled Water Tracking (cases)	891	553	588

Operating Expenses

The FY 2027 operating expenses for the Administration Department are $5,759,418 as shown in **Table 30** below.

Table 30: Administration Operating Expenses by Fiscal Year

Operating Expenses	FY 2027	FY 2026	FY 2025
Salaries and Wages	$2,485,700	$583,564	$484,585
Benefits	($1,206,035)	$425,076	$324,765
Materials and Supplies	$120,360	$9,204	$9,200
Outside Services	$536,252	$1,048,693	$1,056,672
Utilities	$84,469	$0	$0
Insurance	$368,600	$360,000	$245,000
Legal	$490,000	$540,000	$504,000
Dues and Subscriptions	$75,152	$65,152	$86,365
Training and Education	$67,504	$79,104	$76,300
Total Operating Expenses	**$5,759,418**	**$3,110,803**	**$2,786,887**

The FY 2027 operating expenses for Public Affairs are $1,261,684 as shown in **Table 31** below.

Table 31: Public Affairs Operating Expenses by Fiscal Year

Operating Expenses	FY 2027	FY 2026	FY 2025
Salaries and Wages	$200,000	$269,928	$246,444
Benefits	$120,000	$195,396	$172,680
Materials and Supplies	$211,500	$196,500	$179,000
Outside Services	$696,488	$555,488	$409,500
Dues and Subscriptions	$1,704	$1,704	$97,700
Training and Education	$15,996	$15,996	$16,000
Groundwater Management	$15,996	$0	$16,000
Other Expenses	$0	$30,000	$50,000
Total Operating Expenses	**$1,261,684**	**$1,265,012**	**$1,187,324**

Customer Service Department

Description of Services Provided

Customer Service is the first point of contact for approximately 44,000 customers. The department provides call center support, walk-up counter payment service, interactive voice response/internet payment services, new account processing, and work order generation.

Staffing

The Customer Service Department consists of four FTE positions as shown in **Table 32** below.

Table 32: Customer Service FTEs for FY 2027

Customer Service Department	FY 2027 FTEs
Customer Service Supervisor	1
Senior Customer Service Representative	1
Customer Service Representative I/II	2
Total	**4**

2025-2026 Accomplishments

SMART Goal 1.1 - Develop and initiate an annual plan to increase customer outreach and engagement through various communication channels, technologies, and community events. The goal is to enhance customer trust, satisfaction, and understanding of water services with ongoing refinement of the communications plan and its goals.

- Customer Experience Enhancement Program
- MSWD conducted a bill redesign survey.

SMART Goal 6.1 - Embracing technological solutions that align the District with industry best practices and modern standards.

- Migrate to a new electronic check deposit service, saving staff time, increasing timeliness of deposits, and improving security.

2026-2027 Goals and Objectives

SMART Goal 1.1 – Develop and initiate an annual plan to increase customer outreach and engagement through various communication channels, technologies, and community events. The goal is to enhance customer trust, satisfaction, and understanding of water services with ongoing refinement of the communications plan and its goals.

- Survey customer groups involved in water-related events (e.g., construction activities, service interruptions, water quality changes, emergencies, and other vital issues) to hear about the customer experience and determine if MSWD can improve how the event is handled.

SMART Goal 6.1 - Embracing technological solutions that align the District with industry best practices and modern standards.

- Streamline processes and improve customer service by reducing delays and errors to enhance customer satisfaction and trust in the District's services.

Performance Measures

Table 33 shows the specific quantitative performance measures of work performed by the Customer Service Department that help the District assess the effectiveness and efficiency of the department.

Table 33: Performance Measures for Customer Service

Activity	2023	2024	2025
Customer Service Calls	23,040	20,045	21,514
Water Waste	-	17	8
High Bill/Service Line Leak	-	79	47
No Water	-	80	76
Illegal Disconnect	-	25	74
Disconnections	-	1,261	1,348
Reconnections	-	892	1,061
Service Transfers	-	1.225	1.325
High/Low Pressure	-	61	66
Water Quality	-	26	43
Other Misc	-	1,114	1,.037
Customer Portal Registration	2,074	1,696	1,712
Auto-Dialer Calls to Customers	5,107	4,077	4,674
Door Hangers to Property	759	652	639
United Way Customer Bill Assistance Program ($)	$13,000	$4,900	$4,500
Payment Plans	147	137	119
Payment Plans ($)	$54,158	$71,307	$87,128

Operating Expenses

The FY 2027 operating expenses for the Customer Service Department are $1,340,508 as shown in **Table 34** below.

Table 34: Customer Service Operating Expenses by Fiscal Year

Operating Expenses	FY 2027	FY 2026	FY 2025
Salaries and Wages	$596,908	$722,076	$689,472
Benefits	$500,000	$660,936	$606,672
Materials and Supplies	$5,000	$5,000	$5,000
Outside Services	$211,000	$575,704	$617,300
Dues and Subscriptions	$0	$0	$100
Training and Education	$15,000	$15,000	$15,000
Other Expenses	$12,600	$17,400	$16,800
Total Operating Expenses	**$1,340,508**	**$1,996,116**	**$1,950,344**



Human Resources Department

Description of Services Provided

Human Resources is responsible for ensuring that the District initiates and facilitates strategies for building a workforce which supports and enhances the organizational objectives and values. In addition to workforce development, the department is responsible for overseeing employee benefits, classification and compensation, policies and procedures, employee relations, administrative support, and employee development. The department also promotes and provides a safe and secure work environment for employees, including employee safety and training programs, workers compensation, emergency management, and disaster preparedness for the District.

Staffing

The Human Resources Department consists of two FTE positions as shown in **Table 35** below.

Table 35: Human Resources FTE Positions for FY 2027

Human Resources Department	FY 2027 FTEs
Human Resources Manager	1
Administrative Assistant I/II	1
Total	**2**

2025-2026 Accomplishments

SMART Goal 6.2 - Hire a designated GIS employee and integrate asset management within the MSWD work order management system.

- GIS Specialist was hired on June 8th, 2024.

SMART Goal 7.1 - Create development opportunities and facilitate staff participation in professional development opportunities.

- Employee performance evaluation process aligned with District's new Strategic Plan and core values was completed and rolled out to employees in July 2024.

SMART Goal 7.2 - Expand leadership development programs to enhance the knowledge and skills of employees.

- HR is working with managers as they submit new evaluations to refine individual goals.
- Employee's education/certification accomplishments are listed on the Human Resources Report and employees are recognized during the monthly Board meetings. Accomplishments are also posted to the Hub.

SMART Goal 7.3 - Recruit and retain employees.

- District established annual "Employee Ask" meetings to provide employees with a platform to voice their requests and suggestions. These meetings allow employees to propose changes, from workplace perks to significant adjustments such as pay increases and expanded benefits.

SMART Goal 7.4 - Ensure employee safety and wellness.

- Employees continue to complete required monthly job-related trainings.
- District established and maintains a Safety Resources Center on the Hub for employees.
- In addition to regular training, MSWD supervisors are required to take management safety training courses that teach advanced safety skills, such as documenting and recognizing safety issues before they occur.
- Wellness newsletters via email, paystub buck slips including health tips and wellness advice, and the establishment of a "Health and Wellness at MSWD" page on the hub to provide a variety of wellness resources.
- The District applied for and received a Health and Wellness Grant through ACWA/JPIA, underscoring the commitment to promoting employee well-being.
- In February 2025, MSWD rolled out a new Health and Wellness Challenge, encouraging employees to track their steps and aim for an average of 8,000 steps daily.
- Resolution 2025-17 Amending the Codified MSWD Personnel Rules and Regulations Title 3 – Personnel.

SMART Goal 7.5 - Cultivate a positive culture and teamwork among staff.

- Human resources manager has an open door/email/phone policy for all employees. Anonymous reporting forms have also been put in place for employees to report any concerns confidentially.
- With input from employees, the District adopted a Workplace Violence Prevention program.
- The District encourages supervisors to recognize employees for achievements in both personal and professional lives through internal email recognition/shout0outs, Board meeting recognition, and announcements posted on the Hub.

2026-2027 Goals and Objectives

SMART Goal 6.2 - Hire a designated GIS employee and integrate asset management within the MSWD work order management system.

- Other Key Success Measures

SMART Goal 7.1 - Create development opportunities and facilitate staff participation in professional development opportunities.

- Continue to develop individual employee development plans to promote personal and professional growth.
- Update the organization-wide succession plan, allowing employees the opportunity for professional growth, cross-training, and preparation for succession and temporary assignments to maintain continuity and operational effectiveness.
- Modify the employee performance evaluation process to align with the District's new Strategic Plan and core values.

SMART Goal 7.2 - Expand leadership development programs to enhance the knowledge and skills of employees.

- On an ongoing basis, ensure 100% of employees have clearly defined job-related goals on their performance evaluations.
- Publish and promote all employees' education/certification accomplishments internally.

SMART Goal 7.3 - Recruit and retain employees.

- Update and continue utilizing salary survey insights to inform salary decisions, ensuring that compensation remains competitive. Competitive compensation and expanded internship opportunities attract and retain top talent, contributing to a skilled and motivated workforce.
- Evaluate and look for ways to keep turnover rates at or below industry standards due to resignations or terminations (related to compensation or working conditions), not including retirements.

SMART Goal 7.4 - Ensure employee safety and wellness.

- Continue to educate employees on safe working practices.
- Require supervisors and lead workers to demonstrate their commitment to safe work practices.
- Encourage Employee Wellness and implement a comprehensive, district-wide Employee Wellness Plan.
- Other Key Success Measures.

SMART Goal 7.5 - Cultivate a positive culture and teamwork among staff.

- Ensure the lines of communication are open for all employees.
- Focus on maintaining high employee morale and a positive organizational culture.
- Ensure our workforce is ready to embrace Diversity, Equity, and Inclusion differences and continue routine training.

Operating Expenses

The FY 2027 operating expenses for the Human Resources Department are $569,371 as shown in **Table 36** below.

Table 36: Human Resources Operating Expenses by Fiscal Year

Operating Expenses	FY 2027	FY 2026	FY 2025
Salaries and Wages	$249,372	$339,492	$210,168
Benefits	$137,045	$278,928	$161,760
Recruitment & Retention	$17,004	$0	$0
Materials and Supplies	$18,000	$2,496	$2,000
Outside Services	$116,250	$119,112	$119,700
Dues and Subscriptions	$9,500	$9,492	$2,500
Training and Education	$22,200	$22,200	$25,000
Total Operating Expenses	**$569,371**	**$771,720**	**$521,128**



Innovation & Technology Department

Description of Services Provided

The Innovation and Technology (IT) department was formally established in FY 2021-22 and is responsible for the administration and coordination of the District's computer systems, including the Geographic Information System (GIS), and Supervisory Control and Data Acquisition (SCADA). The IT department provides ongoing support for future planning, employee technical training, and coordinates related services with contract consultants. Information systems supported by IT include: telephones, cell phones, radio communication systems, voice-mail, routers, switches, VPN, and firewalls. IT also maintains internet and intranet connections including the monitoring and security of the District's computer network data traffic.

Staffing

The Innovation & Technology Department consists of one FTE position as shown in **Table 37** below.

Table 37: Innovation & Technology FTEs for FY 2027

Innovation & Technology Department	FY 2027 FTEs
Innovation & Technology Manager	1
Total	**1**

2025-2026 Accomplishments

SMART Goal 1.4 - Cultivate positive community relations and partnerships with industry, media, and legislative contacts.

- Secure funding through the SLCGP to be used to improve District cybersecurity to better protect customer data and resiliency of our operational systems.

SMART Goal 4.4 - Invest and look at ways to fortify infrastructure security.

- Advanced site security measures were added to the Wright Facility.
- Obtained a $245,250 cyber security grant to fortify MSWD online systems.

SMART Goal 6.1 - Embracing technological solutions that align the District with industry best practices and modern standards.

- Contract agreement renewal with Intelesys Communications Services for Information Technology Professional Services.
- Implement the cybersecurity projects outlines in SLCGP cybersecurity grant, awarded by CAL OES, that will improve network infrastructure, security controls, training/education, and the overall cybersecurity posture of the District.
- Service Agreement with Tyler Technologies for Enterprise Resource Planning Pro 10 Financial Management Suite.

- MSWD posted a Request for Proposal on February 24th, 2025 for the new ERP system and implementation services on OpenGov website.
- Implemented new electronic forms using ArcGIS and Power Automate software that allow for a more streamlined customer experience in reporting water waste, applying for fire flow tests, requesting sewer/water information
- Fully implemented the ArcGIS and CityWorks GIS system work order management components.
- The District has created/revised forms on Laserfiche Forms to streamline workflows behind the scenes, eliminate paper waste, and speed up processing times.
- Enterprise Agreement for the ESRI Advantage Program.

2026-2027 Goals and Objectives

SMART Goal 1.4 - Cultivate positive community relations and partnerships with industry, media, and legislative contacts.

- Pursue grants and projects that would benefit our customers.

SMART Goal 4.4 - Invest and look at ways to fortify infrastructure security.

- Optimize security preparedness at all sites.
- Other Key Success Measures.

SMART Goal 6.1 - Embracing technological solutions that align the District with industry best practices and modern standards.

- Ensure information systems planning is aligned with the District's Strategic Plan.
- Enhance cyber security to ensure the continued safety of our system.
- Ensure secure data access, remote access, and valid customer data.
- Finalize the solicitation for a new enterprise resource planning software platform, which will seamlessly integrate Finance, Customer Service, and Human Resources needs.
- Streamline processes and improve customer service by reducing delays and errors to enhance customer satisfaction and trust in the District's services.
- Develop a work order management system and analyze workload allocations for infrastructure and maintenance operations based on industry key performance indicators and standards.
- Adopt an asset management system to ensure cradle-to-grave tracking of resources that aligns with the asset management and replaced component of the Long-Range Financial Master Plan.
- Look for additional ways to leverage technology and increase staff efficiency and operational savings. Information systems should support effective decision-making, system integration, reliable data, and decreased redundancy.

Operating Expenses

The FY 2027 operating expenses for the Innovation & Technology Department are $1,663,891 as shown in **Table 38** below.

Table 38: Innovation & Technology Operating Expenses by Fiscal Year

Operating Expenses	FY 2027	FY 2026	FY 2025
Salaries and Wages	$100,000	$81,216	$108,648
Benefits	$60,956	$59,232	$78,672
Materials and Supplies	$35,660	$45,360	$15,000
Outside Services	$1,450,657	$776,516	$1,635,016
Training and Education	$16,618	$6,000	$8,000
Total Operating Expenses	**$1,663,891**	**$1,065,328**	**$1,845,336**



Engineering Division

Engineering & Water Resources Department

Description of Services Provided

Engineering & Water Resources is responsible for oversight of the Capital Improvement Program, water resources management, the District's Master Plans for Water and Sewer, and all engineering and planning work.

Engineering prioritizes and establishes schedules and methods for the design and construction of the District's Capital Improvement Projects. This department monitors and oversees engineering design activities, including those prepared by consultants; prepares and reviews engineering plans, cost estimates, labor proposals, agreements, public works contracts, and project specifications. This department implements construction management methods to manage contractors that are building the District's capital improvement projects in the field.

Water Resources uses planning and management tools to leverage the District's water supply portfolio to ensure access to reliable and resilient water supplies to meet future projected demands. This department ensures compliance with federal, state, and local regulations such as Integrated Regional Water Management, Urban Water Management Planning, Sustainable Groundwater Management Planning, and Salt and Nutrient Management Planning.

Staffing

The Engineering & Water Resources Department consists of six FTE positions as shown in **Table 39** below.

Table 39: Engineering & Water Resources FTE Positions for FY 2027

Engineering & Water Resources Department	FY 2027 FTEs
Engineering Manager	1
Associate Engineer	1
Engineering Technician I/II/Sr.	2
Construction Inspector	1
Administrative Assistant I/II	1
Total	**6**

2025-2026 Accomplishments

SMART Goal 2.1 - Ensure excellence in regulatory compliance.

- Acceptance of the WSA/WSV for the 20th Avenue Logistics Center Project.
- Receive and File the Mission Creek Subbasin Annual Report for Water Year 2024-2025
- Award of Contract for the Horton WWTP Monitoring Well 1A.

SMART Goal 2.2 - Support / Advocate regional development of local water supply and reduce reliance on imported supply.

- Completion of the Well rehab of Well 34 to help with water production.
- Contract Amendments for Construction and Construction Support and Inspection Services for the Well 42 Project.
- Contract Amendment 1 with Layne Christensen and Capital Budget Augmentation for Site Work and Well Fitting for New Well 42.
- Completion of the conveyance line, contributes to the system reliability by directing wastewater flows to the regional plant, and shifting the burden from the Horton plant to allow for needed maintenance.
- Completion of the Regional Plant.

SMART Goal 2.3 - The Mission Springs Water District Groundwater Quality Protection Project is a comprehensive water resource management effort that eliminates known pollution sources; reclaims water to reduce demand on limited groundwater resources; protects underground storage capacity; and leverages multiple funding opportunities.

- Completion of the Supplemental Environmental Project contributes to the District's goal to remove legacy septic tanks, and connect properties to the sewer collection system. Supporting the District's efforts to protect the groundwater supply.

SMART Goal 3.2 - Control costs and manage debt responsibly.

- Award of Contract to TKE Engineering for Temporary Staff Augmentation.
- Entered into the PPA rather than a purchase for the solar project in the fall of 2024.
- Rejection of Construction Bids for the Area M2 Sewer Construction and Water Line Replacement Project. Rebid project and awarded to WEKA Inc.

SMART Goal 4.1 - By September 2026, complete the construction of a Critical Service Center, which will foster increased collaboration, communication, and teamwork among employees working at one central location.

- Third Amendment to Contract with Ruhnau Clarke Architects for the design of the Critical Services Center/Administration Building.
- Execution of Lot Line Adjustment Application for the Critical Services Center.
- Park Lane improvements negotiation/review with the City in-progress. In addition, review of fire flow plan alternative options.

- Project location selected (Corp Yard) and design is almost completed. Meetings continue with City of DHS and Ruhnau Clarke Architects for finalization of plans.

SMART Goal 4.2 - Update Existing Water and Wastewater Master Plans.

- Acceptance of the 2025 Water and Wastewater Master Plans.
- MSWD has hired a new GIS employee and is transitioning to CityWorks, which will allow for a detailed system study.

SMART Goal 4.3 - Maintain and renew assets while facilitating strategic Capital improvements.

- Approve Change Order No. 2 with South West Pump and Drilling for the On-Call Well and Booster Maintenance and Repair Services Contract.
- Award of Contract to Kyle Groundwater Inc for Professional Hydrogeological Support Services.
- Acceptance of Grant of Easement Deed for Public Utilities Easement Azure Palm Hot Springs Resort & Day Spa Oasis.
- Contract Amendment 1 with Legend Pump and Well Service and Capital Budget Augmentation for Well 34 Rehabilitation.
- Developer/Contractor Handbook & Guidelines for Design and Construction of Water and Sewer Facilities Revisions.
- Acceptance of Final Tract Map for Tract 38816 – Aventura Palms.
- Acceptance of Bill of Sale for Skyborne Village III Phase II Water and Sewer Infrastructure.
- Water line replacement from Hurricane Hilary: removed affected water lines and installed them deeper in the Mission Creek Channel to mitigate them from being impacted by future heavy rain events.

SMART Goal 4.4 - Invest and look at ways to fortify infrastructure security.

- Advanced site security measures added to the Wright Facility.

SMART Goal 4.5 - Ensure the District is prepared to react to manmade and natural emergencies.

- Contract agreements with TKE Engineering for On-Call Professional General Engineering Services.

SMART Goal 5.1 - Increase Use of Sustainable Energy Sources and Optimize Efficiencies - “There is no waste; just wasted resources”.

- Contract Amendment 1 with Tom Dodson & Associated for On-Call Environmental Consulting for the MSWD Solar Project.
- Resolution 2025-20 Approving the Initial Study and Adopting the Mitigated Negative Declaration for the MSWD Street Improvements for the RWRF.

SMART Goal 5.3 - Embrace Green Building Standards

- Approval of the Update of the Develop/Contractor Handbook & Guidelines for the Design and Construction of Water and Sewer Facilities.
- Developer/Contractor Handbook & Guidelines for Design and Construction of Water and Sewer Facilities Revisions.

2026-2027 Goals and Objectives

SMART Goal 2.1 - Ensure excellence in regulatory compliance.

- Deliver services in accordance with standards set by regulatory agencies.
- Chromium-6 MCL. Share best practices and collaborate with other water districts in the Coachella Valley through our consultant to develop a cost-effective approach to managing Chromium-6 levels within our water supply.
- Ensure the District's Chromium-6 plan is incorporated in the Long-Range Financial Plan and that any capital projects are incorporated in the Five-Year CIP Program.
- Other Key Success Measures.

SMART Goal 2.2 - Support / Advocate regional development of local water supply and reduce reliance on imported supply.

- Participate in negotiations for the final determination of the Ground Sustainability Agency for basins within the District's service area, which include the San Gorgonio Pass Sub-Basin, the Mission Creek Sub-Basin, the Indio Sub-Basin, and the Desert Hot Springs Sub-Basin.
- Work with the Salt Nutrient Management Plan stakeholders to continue monitoring Total Dissolved Solids in the Coachella Valley and advocate for project funding to protect our aquifer.
- Other Key Success Measures.

SMART Goal 2.3 - The Mission Springs Water District Groundwater Quality Protection Project is a comprehensive water resource management effort that eliminates known pollution sources; reclaims water to reduce demand on limited groundwater resources; protects underground storage capacity; and leverages multiple funding opportunities.

- Communicate the value of septic to sewer and water quality efforts to stakeholders and the community to ensure continued support.

SMART Goal 3.2 - Control costs and manage debt responsibly.

- Actively manage costs and live within the "approved" budget.
- Preserve the District's credit rating, enabling us to qualify for favorable borrowing terms in the future.

SMART Goal 4.1 - By September 2026, complete the construction of a Critical Service Center, which will foster increased collaboration, communication, and teamwork among employees working at one central location.

- Construct a new administrative and operations building to allow the District to grow and continue to provide service to its customers.
- Within the Two Bunch location no longer feasible, ensure that the District's second choice, the Corporate Yard, is feasible and meets the District's future needs before engaging a contractor.

SMART Goal 4.2 - Update Existing Water and Wastewater Master Plans.

- Create a Predictive and Preventative Pipeline Replacement Project for aging piping within the water distribution system.
- Continue to work with the Army Corp of Engineers to design and construct all defined assessment areas while leveraging grant funding to lower customer costs.
- Conduct an analysis of available capacity within the current water system with future water demand projections to forecast the time of demand need. Incorporate results in Urban Water Management Plan updates and Master Plan updates.
- Other Key Success Measures.

SMART Goal 4.3 - Maintain and renew assets while facilitating strategic Capital improvements.

- Diligently manage and maintain current equipment to provide maximum value to the District.
- Other Key Success Measures.

SMART Goal 4.4 - Invest and look at ways to fortify infrastructure security.

- Optimize security preparedness at all sites.
- Identify, monitor, and resolve risks of flood, earthquake, or natural disaster.

SMART Goal 4.5 - Ensure the District is prepared to react to manmade and natural emergencies.

- Participate in regional tabletop exercises to ensure staff are prepared for emergency situations.

SMART Goal 5.1 - Increase Use of Sustainable Energy Sources and Optimize Efficiencies - "There is no waste; just wasted resources".

- Add solar panels to District facilities and convert low electrical use sites to solar.
- Leverage the District's solar resources and look into expansion financing opportunities, including grants, leasing, and power purchase agreement opportunities.
- Other Key Success Measures.

SMART Goal 5.3 - Embrace Green Building Standards

- Other Key Success Measures.

Operating Expenses

The FY 2027 operating expenses for the Engineering & Water Resources Department are $1,602,593 as shown in **Table 40** below.

Table 40: Engineering & Water Resources Operating Expenses by Fiscal Year

Operating Expenses	FY 2027	FY 2026	FY 2025
Salaries and Wages	$353,603	$337,992	$308,184
Benefits	$200,000	$273,132	$241,344
Materials and Supplies	$8,400	$10,900	$6,900
Outside Services	$646,290	$624,455	$534,320
Engineering	$379,800	$66,000	$66,000
Dues and Subscriptions	$4,500	$4,500	$3,500
Training and Education	$10,000	$10,000	$8,500
Other Expenses	$0	$15,000	$15,000
Total Operating Expenses	**$1,602,593**	**$1,341,979**	**$1,183,748**



Finance Division

Finance Department

Description of Services Provided

Finance coordinates the activities for the department. The Director of Finance oversees investment activities, debt administration, rate setting, as well as overall financial and budgetary oversight of the District. Other administrative duties include employee relations and performance, strategic planning, and goal setting.

Staffing

The Finance Department consists of one FTE position as shown in **Table 41** below.

Table 41: Finance FTE Positions for FY 2027

Finance Department	FY 2027 FTEs
Director of Finance	1
Total	**1**



Accounting Department

Description of Services Provided

Accounting performs all financial related services for the District, which includes general ledger functions, investment tracking, debt management, payroll and benefit processing, accounts payable, accounts receivable, customer billing, collection processing/referral, customer payment remittance processing, bank account reconciliation, monthly financial reporting, budget preparation, rate analysis/update, ACFR preparations, State Controller's report preparation, and Capital Improvement Program reporting.

Purchasing and Warehouse administers the decentralized purchasing system for the District, including the operation of a full-service warehouse. The department is responsible for oversight of the procurement and purchase order process for all departments. This department provides enhanced supply management, a high level of accountability and value-added services. The department also works to achieve cost savings and to stock adequate supplies in case of emergencies.

Staffing

The Accounting Department consists of five FTE positions as shown in **Table 42** below.

Table 42: Accounting FTE Positions for FY 2027

Accounting Department	FY 2027 FTEs
Accounting Manager	1
Accountant	2
Accounting Technician	1
Purchasing & Warehouse Specialist	1
Total	**5**

2025-2026 Accomplishments

SMART Goal 1.2 - When customers better understand what the District does and how it operates, they will recognize MSWD's work to protect and provide water services. Enhancing customer education will increase trust in the District's services.

- Annual Report of Capacity Fees and Related Capital Expenditures.

SMART Goal 1.4 - Cultivate positive community relations and partnerships with industry, media, and legislative contacts.

- Government Finance Officers Association (GFOA) Distinguished Budget Presentation Award.

SMART Goal 3.2 - Control costs and manage debt responsibly.

- Resolutions 2025-02, 2025-03, and 2025-04 ~ Revised FY 2024/25 Operating and Capital Budget Appropriations Limit and Classification Plan.
- Resolution 2025-05 – Collection of sewer fees on tax roll.
- Resolution 2025-10 - Collection of water standby charges on tax roll.
- Resolution 2025-09 – Placing sewer standby fees on tax roll.
- Resolution 2025-11 – Addition of delinquent accounts on tax roll.
- Resolutions 2025-12, 2025-13, and 2025-14 – Adoption of Operating and Capital Budgets FY 2025-26, Appropriations Limit for FYE 6/30/26, and Employee Classification Plan.
- Resolution 2025-01 MSWD RWRF Installment Purchase Agreement Extension.
- Adoption of Ordinance No. 2025-04 and 2025-05 Establishing New Water and Sewer Rates

SMART Goal 3.3 - Enhance transparency in financial reporting by adopting best practices and ensuring timely and accurate financial disclosures.

- Awarded contract agreement to OpenGov for Budgeting, Planning, and Procurement software to increase transparency by allowing internal and external stakeholders visibility into the processes.
- Annual Report for Capacity Fees and Related Capital Expenditures.
- MSWD recipient of GFOA Distinguished Budget Award for FY 2026.
- Resolution 2025-15 Adoption of Updated Procurement, Purchasing, and Disbursement Policy.

SMART Goal 6.1 - Embracing technological solutions that align the District with industry best practices and modern standards.

- Customer Service and Finance are reviewing the lien process and looking for ways to combine processing.

2026-2027 Goals and Objectives

SMART Goal 1.2 - When customers better understand what the District does and how it operates, they will recognize MSWD's work to protect and provide water services. Enhancing customer education will increase trust in the District's services.

- Other Key Success Measures.

SMART Goal 1.4 - Cultivate positive community relations and partnerships with industry, media, and legislative contacts.

- Apply for and receive individual and organizational certifications for leadership, transparency, and excellence and publish these accomplishments as an example of MSWD's leadership within the water/wastewater industries.

SMART Goal 3.2 - Control costs and manage debt responsibly.

- Actively manage costs and live within the "approved" budget.
- Limit the impact of unexpected expenditures.
- Preserve the District's credit rating, enabling us to qualify for favorable borrowing terms in the future.
- Stabilize rates and develop a plan to finance essential projects conservatively.

SMART Goal 3.3 - Enhance transparency in financial reporting by adopting best practices and ensuring timely and accurate financial disclosures.

- Communicate financial performance and challenges effectively to internal and external stakeholders, fostering trust and confidence in the District's financial management.
- Implement budget best practices to ensure ongoing GFOA certification.
- Develop and provide financial reporting tools (dashboard) to internal and external stakeholders.
- Keep customer bills fresh and straightforward while providing sufficient information about charges and water use.
- Ensure ongoing dissemination of financial information, including performance to budget, water sales and purchases, and wastewater, as part of the District's overall financial health.

SMART Goal 6.1 - Embracing technological solutions that align the District with industry best practices and modern standards.

- Review lien processing and streamline and consolidate processing to one department.

Operating Expenses

The FY 2027 operating expenses for the Accounting Department are $902,521 as shown in **Table 43** below.

Table 43: Accounting Operating Expenses by Fiscal Year

Operating Expenses	FY 2027	FY 2026	FY 2025
Salaries and Wages	$399,799	$388,972	$249,876
Benefits	$245,922	$238,968	$206,964
Materials and Supplies	$20,400	$0	$0
Outside Services	$207,600	$286,200	$60,000
Training and Education	$28,800	$14,400	$5,000
Other Expenses	$0	($12,000)	($12,000)
Total Operating Expenses	**$902,521**	**$816,540**	**$651,840**

Operations & Maintenance Division

Operations Administration Department

Description of Services Provided

Operations Administration provides leadership and coordination for the activities of the Operations & Maintenance Division. The department is under the leadership of the Director of Operations who oversees the management of the Construction & Maintenance, Field Services, Water Production, Wastewater Collections, and Wastewater Treatment & Disposal Departments.

Staffing

The Operations Administration Department consists of six FTE positions as shown in **Table 44** below.

Table 44: Operations Administration FTE Positions for FY 2027

Operations Administration Department	FY 2027 FTEs
Director of Operations	1
Water Production Superintendent	2
Lead Facilities Maintenance Worker	1
Compliance and Safety Officer	1
Administrative Assistant I/II	1
Total	**6**



Construction & Maintenance Department

Description of Services Provided

Construction & Maintenance is responsible for the operation of building mechanical equipment, general building maintenance and repair, landscape, event setup, and the maintenance and repair of the District's vehicles and heavy equipment.

Staffing

The Construction & Maintenance Department consists of ten FTE positions as shown in **Table 45** below.

Table 45: Construction & Maintenance FTE Positions for FY 2027

Construction & Maintenance Department	FY 2027 FTEs
Field Operations Supervisor	1
Lead Field Operations Technician	2
Field Operations Technician I/II	7
Total	**10**

2025-2026 Accomplishments

SMART Goal 2.2 - Support / Advocate regional development of local water supply and reduce reliance on imported supply.

- Completion of the Regional Plant.

SMART Goal 3.2 - Control costs and manage debt responsibly.

- Replacement of production meters at well sites.
- Enter into the PPA rather than the purchase for the solar project.
- Contract Agreement with Executive Facilities for Annual Janitorial Services for FY 2025-2026

SMART Goal 4.2 - Update Existing Water and Wastewater Master Plans.

- MSWD has hired a new GIS employee and is transitioning to CityWorks, which will allow for a detailed system study.

SMART Goal 4.3 - Maintain and renew assets while facilitating strategic Capital Improvements

- Contract Amendment 2 with Kyle Groundwater to develop a Well Rehabilitation Prioritization Program.
- Authorization for Purchase of Booster Pump Control Valves for the Terrace Booster Station.

- Approve Change Order 1 with L.O. Lynch Quality Wells & Pumps for On-Call Well and Booster Maintenance and Repair Services.
- First Amendment to Contract Agreement with B-81 Paving for Pavement Repairs for Water and Sewer Projects for 2025-2026.

SMART Goal 4.4 - Invest and look at ways to fortify infrastructure security.

- Advanced site security measures were added to the Wright Facility.
- Upgraded network infrastructure between remote sites for more reliable, secure, and high-bandwidth data transmission, thereby allowing improved video surveillance and monitoring.

SMART Goal 5.1 - Increase Use of Sustainable Energy Sources and Optimize Efficiencies - "There is no waste; just wasted resources."

- Resolution 2024-23 Power Purchase Agreement with Staten Solar.
- Amendment 2 to Solar Power Purchase and Lease Agreements with Trident Mission Springs.
- Resolution 2025-19 Initial Study and Mitigated Negative Declaration for RES-BCT and RWRF solar development project.
- Award if Contract to Kenwood Energy for Professional Services to Provide CM Services for the Power Purchase Agreement.

SMART Goal 6.1 - Embracing technological solutions that align the District with industry best practices and modern standards.

- Fully implemented the ArcGIS and CityWorks GIS system work order management components.
- Award of Professional Services Agreement for GeoViewer Software and Support Services for the MSWD to Nobel Systems.

2026-2027 Goals and Objectives

SMART Goal 2.2 - Support / Advocate regional development of local water supply and reduce reliance on imported supply.

- Other Key Success Measures.

SMART Goal 3.2 - Control costs and manage debt responsibly.

- Look for ways to reduce water loss and increase system efficiencies.
- Limit the impact of unexpected expenditures.
- Preserve the District's credit rating, enabling us to qualify for favorable borrowing terms in the future.
- Other Key Success Measures.

SMART Goal 4.2 - Update Existing Water and Wastewater Master Plans.

- Create a Predictive and Preventative Pipeline Replacement Project for aging piping within the water distribution system.

SMART Goal 4.3 - Maintain and renew assets while facilitating strategic Capital Improvements

- Create a Predictive and Preventive Maintenance Program to meet established performance benchmarks.
- Diligently manage and maintain current equipment to provide maximum value to the District.
- Other Key Success Measures.

SMART Goal 4.4 - Invest and look at ways to fortify infrastructure security.

- Optimize security preparedness at all sites.
- Enhance security measures at critical remote sites and standardize systems and software to manage these operations.

SMART Goal 4.5 - Ensure the District is prepared to react to manmade and natural emergencies.

- Continue to improve and refine the District's emergency response plan.
- Effectively communicate with outside agencies and emergency preparedness partners, including mutual response like CalWARN or first response personnel at the City and County.

SMART Goal 5.1 - Increase Use of Sustainable Energy Sources and Optimize Efficiencies - "There is no waste; just wasted resources."

- Add solar panels to District facilities and convert low electrical use sites to solar.
- Leverage the District's solar resources and look into expansion financing opportunities, including grants, leasing, and power purchase agreement opportunities.

SMART Goal 6.1 - Embracing technological solutions that align the District with industry best practices and modern standards.

- Develop a work order management system and analyze workload allocations for infrastructure and maintenance operations based on industry key performance indicators and standards.
- Other Key Success Measures.

Performance Measures

Table 46 shows the specific quantitative performance measures of work performed by the Construction & Maintenance Department that help the District assess the effectiveness and efficiency of the department.

Table 46: Performance Measures for Construction & Maintenance

Activity	2023	2024	2025
Water Line Location Requests	5,812	4,532	4.312
Service Lines Replaced	191	123	165
Service Line Leaks Repaired	173	127	112
Main Line Leaks Repaired	76	56	48
Fire Hydrants Repaired/Replaced	16	23	23
Water System Valves Exercised	2,436	1,756	2,132
Fire Hydrants Flushed, Maintained, & Painted	966	891	871
Air/Vacuum Valves Inspected/Rebuilt	194	214	199
Cla-Val Inspected	12	2	0
Blow-Offs Flushed	294	355	410
CMMS Work Orders Processed	616	362	344
New Water Meter & Service Line Installation	146	111	300
Fire Flow Testing	126	108	95

Operating Expenses

The FY 2027 operating expenses for the Construction & Maintenance Department are $3,032,924 as shown in **Table 47** below.

Table 47: Construction & Maintenance Operating Expenses by Fiscal Year

Operating Expenses	FY 2027	FY 2026	FY 2025
Salaries and Wages	$832,448	$40,032	$37,176
Benefits	$675,000	$30,156	$27,120
Materials and Supplies	$834,216	$376,500	$398,500
Outside Services	$691,260	$443,808	$413,100
Total Operating Expenses	**$3,032,924**	**$890,496**	**$875,896**

Field Services Department

Description of Services Provided

Field Services is responsible for all field requests that include turn on/off accounts, meter repairs, water consumption investigations and consultations, new meter installations, meter calibrations, and AMI reading. Field Services also provides customers with assistance via their Customer Portal, which notifies customers of leaks and water waste before their next bill, and by helping customers with the programming of their sprinkler time to further promote water efficiency.

Staffing

The Field Services Department consists of four FTE positions as shown in **Table 48** below.

Table 48: Field Services FTE Positions for FY 2027

Field Services Department	FY 2027 FTEs
Lead Field Service Representative	1
Field Service Representative II - Backflow Specialist	1
Field Service Representative I/II	2
Total	**4**

2025-2026 Accomplishments

SMART Goal 1.3 – Deliberate customer outreach also has a ripple effect of educating employees about the District. Employees can service as ambassadors for the District, helping create and strengthen customer relations.

- Leveraged the AMI infrastructure and Neptune 360 to investigate high consumption, identify water wasters, and detect leaks.

SMART Goal 4.3 – Maintain and renew assets while facilitating strategic Capital improvements.

- Completed the annual maintenance and network audit for the AMI gateway antennas at eight locations.
- Completed Backflow and Cross Connection annual testing as required by the SWRCV Cross Connection Control Policy Handbook.

2026-2027 Goals and Objectives

SMART Goal 1.3 – Deliberate customer outreach also has a ripple effect of educating employees about the District. Employees can service as ambassadors for the District, helping create and strengthen customer relations.

- Other Key Success Measures

SMART Goal 4.3 – Maintain and renew assets while facilitating strategic Capital improvements.

- Diligently manage and maintain current equipment to provide maximum value to the District.

SMART Goal 5.3 – Embrace Green Building Standards.

- Other Key Success Measures.

Performance Measures

Table 49 shows the specific quantitative performance measures of work performed by the Field Services Department that help the District assess the effectiveness and efficiency of the department.

Table 49: Performance Measures for Field Services

Activity	2023	2024	2025
Continuous Usage	-	610	1,054
High Usage (> Normal)	-	113	181
Reverse Flow	-	0	0
BPAs Tested	-	934	1,475
Hazard Assessment	-	0	26

Operating Expenses

The FY 2027 operating expenses for the Field Services Department are $1,282,232 as shown in **Table 50** below.

Table 50: Field Services Operating Expenses by Fiscal Year

Operating Expenses	FY 2027	FY 2026	FY 2025
Salaries and Wages	$108,264	$297,468	$278,700
Benefits	$65,000	$254,964	$230,592
Materials and Supplies	$629,664	$150,468	$80,240
Outside Services	$479,304	$526,896	$444,336
Utilities	$0	$70,469	$0
Training and Education	$0	$15,700	$11,300
Total Operating Expenses	**$1,282,232**	**$1,315,965**	**$1,110,539**

Water Production Department

Description of Services Provided

Water Production is responsible for water treatment, storage, production, pumping, and distribution systems. Responsibilities include maintenance of the water production system including: 13 wells, 24 storage tanks, and 12 booster stations. Water Production also provides customers with high quality potable water. The distribution system requires a team effort of daily operation and regular maintenance to ensure a reliable and consistent water supply. Water Operations maintains and replaces: service lines, valves, and fire hydrants. This also includes meter readers which read approximately 14,231 meters per month using manual and automated meter reading technology.

Staffing

The Water Production Department consists of four FTE positions as shown in **Table 51** below.

Table 51: Water Production FTE Positions for FY 2027

Water Production Department	FY 2027 FTEs
Water Production Supervisor	1
Lead Water Production Operator	1
Water Production Operator I/II	2
Total	**4**

2025-2026 Accomplishments

SMART Goal 2.1 – Ensure excellence in regulatory compliance.

- Collected 780 monthly routine bacteriological samples, 216 general physical samples, and 12 uranium samples for the wells and water distribution systems.
- Continued to submit the Monthly Coliform Monitoring Report to the SWRCB in a timely manner.
- Continued to conduct routine chlorine pump maintenance and inspections at 13 well sites, making necessary adjustments to all chlorine pumps and/or their related equipment, ensuring proper operation, and repairing/rebuilding as needed.
- Continued checking and documenting 2,229 chlorine residuals at all well sites and 1,114 chlorine residuals throughout the water distribution systems.
- Continued to collect monthly groundwater levels for 13 production wells and nine monitoring wells.
- Continued to conduct monthly overflow maintenance and roof inspections for 24 reservoirs.

SMART Goal 4.3 – Maintain and renew assets while facilitating strategic Capital improvements.

- Staff initiated an upgrade of the SCADA server equipment and relocated it to the main server room to enhance security.
- Staff corrected items that were brought to our attention during the last Sanitary Survey Inspection.
- Staff completed Gateway Fire Pump Monthly testing throughout the year.
- Staff completed an upgrade to the generator connections at Well 25 to the cam lock style connections to improve efficiency and maintain uniformity throughout the system.
- Staff continued to conduct weekly bacteriological source and compliance point sampling at Well 26 in accordance with the 4-log removal agreement with the State Water Resources Control Board Department of Drinking Water.
- Staff contracted with PVCA to complete minor maintenance and assess major repair needs for the Well 33 Solar Site.
- Staff continued to sound the groundwater levels for 13 production wells and nine monitoring wells by the 15th of each month.

2026-2027 Goals and Objectives

SMART Goal 2.1 – Ensure excellence in regulatory compliance.

- Deliver services in accordance with standards set by regulatory agencies.
- Share best practices and collaborate with other water districts in the Coachella Valley through our consultant to develop a cost-effective approach to managing Chromium-6 levels within our water supply.
- Ensure the District's Chromium-6 plan is incorporated in the Long-Range Financial Plan and that any capital projects are incorporated into the Five-Year CIP Program.

SMART Goal 4.3 – Maintain and renew assets while facilitating strategic Capital improvements.

- Diligently manage and maintain current equipment to provide maximum value to the District.
- Assess existing pipelines and associated equipment as part of the Predictive and Preventive Maintenance Program.
- Other Key Success Measures.

Performance Measures

Table 52 shows the specific quantitative performance measures of work performed by the Water Production Department that help the District assess the effectiveness and efficiency of the department.

Table 52: Performance Measures for Water Production

Activity	2023	2024	2025
Bacteriological Samples Collected	774	780	780
General Physical Samples Collected	177	216	216
Sodium Hypochlorite Usage (gallons)	18,602	20,516	19,890
Chlorine Residuals at Well Sites	2,442	2,721	2,229
Chlorine Residuals at Distribution System	1,188	1,083	1,114
Well Soundings	264	264	264
New Service Connections	170	98	304
Water Production (AF)	7,253	8,104	7,897

Operating Expenses

The FY 2027 operating expenses for the Water Production Department are $4,000,057 as shown in **Table 53** below.

Table 53: Water Production Operating Expenses by Fiscal Year

Operating Expenses	FY 2027	FY 2026	FY 2025
Salaries and Wages	$411,405	$1,641,972	$1,454,148
Benefits	$315,000	$1,171,020	$1,001,220
Materials and Supplies	$441,200	$1,397,124	$1,545,200
Outside Services	$697,000	$970,064	$1,108,255
Groundwater Replenishment Fees	$0	($196,800)	($164,652)
Utilities	$2,125,452	$2,362,196	$2,191,275
Standby Reports	$0	$18,000	$13,300
Training and Education	$10,000	$37,008	$37,000
Total Operating Expenses	**$4,000,057**	**$7,400,584**	**$7,185,746**

Wastewater Collections Department

Description of Service Provided

Wastewater Collections is responsible for the maintenance and repair of the District's wastewater collection system infrastructure which includes 125.1 miles of sanitary sewer pipelines and 2,384 manholes. The department implements preventative maintenance programs to monitor wastewater flows and clean the system. The department provides 24-hour emergency response to sewer emergency calls.

Staffing

The Wastewater Collections Department consists of two FTE positions as shown in **Table 54** below.

Table 54: Wastewater Collections FTE Positions for FY 2027

Wastewater Collections Department	FY 2027 FTEs
Collections System Operator I/II	2
Total	**2**

2025-2026 Accomplishments

SMART Goal 2.1 – Ensure excellence in regulatory compliance.

- Completed 12 inspections of sewer line using CCTV equipment.
- Completed cleaning 22.09 miles feet of the sewer mainline.
- Completed 4,532 sewer line location requests using iPads and the GeoViewer Mobile application.

SMART Goal 2.3 – Continue to implement the MSWD Groundwater Quality Protection Program, which is a comprehensive water resource management effort that eliminates known pollution sources; reclaims water to reduce demand on limited groundwater resources; protects underground storage capacity; and leverages multiple funding opportunities.

- Consistently operated the system with minimal Sanitary Sewer Overflows.
- Conducted daily site visits at the Dos Palmas Lift Station checking for proper pump operation, ensuring SCADA is working properly, and checking site security.
- Staff continue to go through the sewer system to identify the possible contributing source of high Total Dissolved Solids (TDS) in the sewer system that is being received at Horton WWTP.

2026-2027 Goals and Objectives

SMART Goal 2.1 – Ensure excellence in regulatory compliance.

- Deliver services in accordance with standards set by regulatory agencies.

SMART Goal 2.3 – Continue to implement the MSWD Groundwater Quality Protection Program, which is a comprehensive water resource management effort that eliminates known pollution sources; reclaims water to reduce demand on limited groundwater resources; protects underground storage capacity; and leverages multiple funding opportunities.

- Expand the sewer systems and wastewater treatment facilities by reclaiming water and reducing groundwater demand while protecting our groundwater supply.

Performance Measures

Table 55 shows the specific quantitative performance measures of work performed by the Wastewater Collections Department that help the District assess the effectiveness and efficiency of the department.

Table 55: Performance Measures for Wastewater Collections

Activity	2023	2024	2025
Sanitary Sewer Overflows	0	2	5
Sewer Line Location Requests	5,669	4,491	4,532
Sanitary Sewer CCTV Inspections	79	229	12
Sanitary Sewer Cleaned (miles)	82.04	0.01	22.09

Operating Expenses

The FY 2027 operating expenses for the Wastewater Collections Department are $774,229 as shown in **Table 55** below.

Table 56: Wastewater Collections Operating Expenses by Fiscal Year

Operating Expenses	FY 2027	FY 2026	FY 2025
Salaries and Wages	$295,758	$181,644	$181,224
Benefits	$157,971	$147,504	$143,712
Materials and Supplies	$126,000	$49,800	$48,800
Outside Services	$168,500	$184,008	$212,500
Dues and Subscriptions	$20,500	$0	$0
Training and Education	$5,500	$0	$0
Total Operating Expenses	**$774,229**	**$562,956**	**$586,236**

Wastewater Treatment & Disposal Department

Description of Service Provided

Wastewater Treatment & Disposal is responsible for performing routine plant maintenance, equipment maintenance, and plant operations for two wastewater treatment plants. The department also operates the sludge belt filter press and is responsible for the removal of sludge from the wastewater treatment plants.

Staffing

The Wastewater Treatment & Disposal Department consists of seven FTE positions as shown in **Table 57** below.

Table 57: Wastewater Treatment & Disposal FTE Positions for FY 2027

Wastewater Treatment & Disposal Department	FY 2027 FTEs
Chief Plant Operator	1
Lead WWTP Operator	1
WWTP Operator I/II	5
Total	**7**

2025-2026 Accomplishments

SMART Goal 2.1 – Ensure excellence in regulatory compliance.

- Performed 11,159 hours of routine plant maintenance, equipment maintenance, and plant operations at the Horton and Desert Crest WWTPs.
- Performed 1,351 hours of operation for the sludge belt filter press and removed 196 trailers of sludge from the Horton WWTP, Desert Crest WWTP, and Wright RWRF.
- Collected 834 samples and performed 1,668 hours of laboratory duties and analysis for process control and regulatory reporting purposes.

SMART Goal 2.3 – Continue to implement the MSWD Groundwater Quality Protection Program, which is a comprehensive water resource management effort that eliminates known pollution sources; reclaims water to reduce demand on limited groundwater resources; protects underground storage capacity; and leverages multiple funding opportunities.

- Continued removal of rags and debris from the headworks and RAS pumps.
- Staff replaced the auger and the stainless-steel screen for the auger monster located in the headworks which is used to capture rags and other debris from entering the plant.
- The original Horton WWTP Influent Pump 1 VFD and RAS Pump 5 VFD that were installed in 2002 failed, causing staff to update the VFDs.

- Staff pulled out the auger located in the headworks to replace the brush used to help clean the auger screen that collects larger materials.
- Staff transferred wastewater from SBR 1 to SBR 4. With SBR 4 operational, staff completed a 30-day test with JF Shea Construction to ensure proper operation.
- Continued to perform monthly groundwater sampling and well sounding at the monitoring wells.
- Cleaned and rehabilitated 73 ponds.
- Continued to implement the Weekly Wastewater Training Program to provide all operators with consistent knowledge and a better understanding of processes, including operating equipment in a more proficient manner.
- Continued training on various equipment throughout the Nancy Wright RWRF.

2026-2027 Goals and Objectives

SMART Goal 2.1 – Ensure excellence in regulatory compliance.

- Deliver services in accordance with standards set by regulatory agencies.

SMART Goal 2.3 – Continue to implement the MSWD Groundwater Quality Protection Program, which is a comprehensive water resource management effort that eliminates known pollution sources; reclaims water to reduce demand on limited groundwater resources; protects underground storage capacity; and leverages multiple funding opportunities.

- Expand the sewer systems and wastewater treatment facilities by reclaiming water and reducing groundwater demand while protecting our groundwater supply.



Performance Measures

Table 58 shows the specific quantitative performance measures of work performed by the Wastewater Treatment & Disposal Department that help the District assess the effectiveness and efficiency of the department.

Table 58: Performance Measures for Wastewater Treatment & Disposal

Activity	2023	2024	2025
Plant & Equipment Maintenance (hours)	5,422	7,031	11,159
Sludge Belt Filter Press (hours)	1,910	1,541	1,351
Trailer of Sludge Removed	192	194	201
Samples Collected	552	499	834
Laboratory Duties (hours)	849	1,090	1,668
Ponds Cleaned & Rehabilitated	83	75	73
New Sanitary Service Connections	156	66	255
Horton Flow (MGD)	23.86	24.60	22.72
Desert Crest Flow (MGD)	0.53	0.52	0.46
Wright RWRF Flow (MGD)	-	-	2.18

Operating Expenses

The FY 2027 operating expenses for the Wastewater Treatment & Disposal Department are $3,433,962 as shown in **Table 59** below.

Table 59: Wastewater Treatment & Disposal Operating Expenses by Fiscal Year

Operating Expenses	FY 2027	FY 2026	FY 2025
Salaries and Wages	$702,790	$1,088,640	$1,011,540
Benefits	$500,000	$654,672	$597,312
Materials and Supplies	$339,404	$259,092	$258,600
Outside Services	$1,219,500	$926,508	$848,963
Utilities	$637,668	$637,668	$591,529
Standby Reports	$0	$5,000	$3,000
Dues and Subscriptions	$25,600	$3,000	$2,850
Training and Education	$9,000	$9,504	$9,500
Total Operating Expenses	**$3,433,962**	**$3,584,084**	**$3,323,294**



APPENDICES

2027

MSWD
Mission Springs Water District

Mission Springs Water District

66575 Second Street
Desert Hot Springs, CA 92240
www.mswd.org
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APPENDICES

Appendix A – List of Acronyms

ACWA – Association of California Water Agencies

AF – Acre-Foot (1 AF = 325,851 gallons)

AMI – Advanced Metering Infrastructure

CCTV – Closed Circuit Television

CIP – Capital Improvement Program

COP – Certificate of Participation

CMMS – Computerized Maintenance Management System

CSDA – California Special Districts Association

CVRWMG – Coachella Valley Regional Water Management Group

CVWD – Coachella Valley Water District

DAC – Disadvantaged Community

DWA – Desert Water Agency

DWR – Department of Water Resources

EIR – Environmental Impact Report

EOC – Emergency Operations Center

FEMA – Federal Emergency Management Agency

FOG – Fats, Oils, Grease

FTE – Full-Time Equivalent (number of employees)

FY – Fiscal Year

GAAP – Generally Accepted Accounting Principles

GASB – Government Accounting Standards Board

GFOA – Government Finance Officers Association

GIS – Geographic Information System

GM – General Manager

GPM – Gallons Per Minute

GPS – Global Positioning System

GQPP – Groundwater Quality Protection Program

GSA – Groundwater Sustainability Agency

HMP – Hazard Mitigation Plan

IRWM – Integrated Regional Water Management

IT – Innovation and Technology

MCL – Maximum Contaminant Level

MGD – Million Gallons Per Day

MSWD – Mission Springs Water District

SCADA – Supervisory Control and Data Acquisition

SCE – Southern California Edison

SGMA – Sustainable Groundwater Management Act

SNMP – Salt and Nutrient Management Plan

SRF – State Revolving Fund

SWOT – Strength, Weakness, Opportunity, Threat

SWRCB – State Water Resources Control Board

TDS – Total Dissolved Solids

USGS – United State Geological Survey

UWMP – Urban Water Management Plan

WDR – Waste Discharge Requirements

WWTP – Wastewater Treatment Plant

Appendix B – Glossary

Accrual Basis of Accounting – The basis of accounting under which transactions are recognized when they occur, regardless of timing of cash receipts and disbursements.

Adopted Budget – The official budget as approved by the Board of Directors at the start of each fiscal year.

Amended Budget – The adopted budget as amended by the Board of Directors through the course of the fiscal year.

Assets – Resources owned or held by the District that have monetary value.

Balanced Budget – A budget in which planned expenditures do not exceed planned funds available.

Board – Comprised of the District's five elected Directors with a rotating president, collectively acting as the legislative and policy-making body of the District.

Bond – A security whereby an issuer borrows money from an investor and agrees and promises, by written contract, to pay a fixed principal sum on a specified date (maturity date) and at a specified rate of interest.

Budget – A financial plan, for a specified period, of operations that matches all planned revenues and expenditures with the services provided to the residents of the Mission Springs Water District service area.

Capital Budget – A budget which focuses on capital project to implement the Capital Improvement Program.

Capital Expense – An acquisition or an improvement (as distinguished from a repair) that will have a life of more than one year and costs more than $10,000.

Capital Improvement Program – A plan for the capital improvements to be implemented each year over a number of years to meet capital needs arising from the assessment of long-term needs. Is sets forth the estimated cost for each project and specifies the resources required to finance the projected expenditures.

Capital Improvement Project – The budget unit to group activities and costs necessary to implement specific capital improvement and/or acquisition. A project can include the construction, acquisition, expansion, replacement, or rehabilitation of a physical facility or improvement. Project often include planning and design, land acquisition, and project management costs related to such facilities and improvements.

Charges for Services – Revenue from charges for all activities of the District.

Contract Services – The costs related to services performed for the District by individuals, businesses, or utilities.

Debt Service Fund – A fund established to account for the accumulation of resources for, and the payment of, long-term debt principle and interest.

Department – A major organization group of the District with overall management responsibility for an operation or a group of related operations within a functional area.

Division – A major administrative organizational unit of the District with overall management responsibility for one or more activities.

Encumbrance – The commitment of appropriated funds to purchase an item or service.

Expenditures/Expenses – Decreases in net total assets. Expenses represent the total cost of operations during a period regardless of the timing of related expenditures.

Fiscal Year – A 12-month period to which the annual operating budget applies and at the end of which an entity determines it financial position, the results of its operations, and adopts a budget for the coming year. The District's fiscal year is from July 1 to June 30.

Fixed Assets – Equipment costing $10,000 or more, including tax, with a useful life longer than one year, and not qualifying as a capital improvement project. Includes automotive equipment, office equipment, office furniture, acquisitions, landscaping improvement, etc.

Fund – An independent fiscal and accounting entity with a self-balancing set of accounts, recording resources, related liabilities, obligations, reserves, and equities segregated for the purpose of carrying out specific activities or attaining certain objectives in accordance with special regulations, restrictions, or limitations.

Fund Balance – The equity (assets minus liabilities) of governmental fund and fiduciary fund types.

Generally Accepted Accounting Principles (GAAP) – Uniform minimum standards of, and guidelines for, financial accounting and reporting. They govern the form and content of the basic financial statements of an entity. GAAP encompasses the conventions, rules, and procedures necessary to define accepted accounting practices at a particular time. They include not only broad guidelines of general application, but also detailed practices and procedures.

Goals – Broad, general statements of each division's desired community of organizational outcomes.

Government Accounting Standards Board – The independent organization that establishes and improves standards of accounting and financial reporting for U.S., state, and local governments.

Infrastructure – The accumulated pipelines and storage facilities of the District, including meters, valves, pumps, and other appurtenances.

Interest Earnings – The earnings from available funds invested during the year in U.S. Treasury Bonds, government agencies, and Certificates of Deposit.

Liabilities – Present obligations of the District arising from past events.

Materials and Supplies – Expendable materials and operating supplies necessary to conduct department activity.

Operating Transfer – A transfer of revenues from one fund to another fund.

Operating Budget – The annual budget and process that provides a financial plan for the operation of government and the provision of services for the year; excluded from the operating budget are capital projects, which are determined by a separate, but interrelated process.

Payroll Expenses – Compensation paid to, or on behalf of, District employees for salaries and wages, overtime, and benefits.

Program – An activity or set of activities that provides a particular service to the citizens.

Public Hearing – The portions of open meetings held to present evidence and provide information on both sides of an issue.

Reserve Fund – Prudent fiscal management tools with flexibility to continually adapt to change, ensure continued operational solvency, and preserve adequate levels of services.

Resolution – An order of a legislative body requiring less formality than an ordinance or statute.

Revenue – Moneys that the District receives as income such as payments for water consumption, shared revenues, and interest income.



2027

MSWD
Mission Springs Water District

Mission Springs Water District

66575 Second Street
Desert Hot Springs, CA 92240
www.mswd.org
760-329-6448

MISSION SPRINGS WATER DISTRICT

PROPOSED CLASSIFICATION PLAN 2026-2027

	Funded FTEs
EXECUTIVE	
General Manager	1
Assistant General Manager	1
	2
ADMINISTRATION	
Programs & Public Affairs Specialist	1
Executive Assistant	1
Business Analyst	1
Contracts Analyst	1
GIS Specialist	1
Customer Service:	
Customer Service Supervisor	1
Customer Service Representative I/II/Sr.	3
Human Resources	
Human Resources Manager	1
Administrative Assistant I/II	1
Innovation & Technology:	
Innovation & Technology Manager	1
	12
ENGINEERING	
Engineering Manager	1
Associate Engineer	1
Construction Inspector	1
Engineering Technician I/II/*Sr.*	2
Administrative Assistant I/II	1
	6
FINANCE	
Director of Finance	1
Accounting:	
Accounting Manager	1
Accountant	2
Accounting Technician	1
Purchasing and Warehouse Specialist	1
	6
OPERATIONS	
Director of Operations	1
Water Distribution Superintendent *	2
*Compliance and Safety Officer***	*1*

Lead Facilities Maintenance Worker	1
Administrative Assistant I/II	1
	6
Field Service	
Lead Field Service Representative	1
Field Service Representative II/Backflow Specialist	1
Field Service Representative I/II	2
	4
Construction & Maintenance:	
Field Operations Supervisor	1
Lead Field Operations Technician	2
Field Operations Technician I/II	7
	10
Water Production:	
Water Production Supervisor	1
Lead Water Production Operator	1
Water Prod. Operator I/II	2
	4
Wastewater Treatment:	
Chief Plant Operator	1
Lead WWTP Operator	1
WWTP Operator I/II	5
	7
Wastewater Collections:	
Lead Collections System Operator	1
Collections System Operator I/II	1
	2
TOTAL PROPOSED FTEs	**59**

* 2 EEs until 9/8/26 due to retirement
** New position

MISSION SPRINGS WATER DISTRICT
2026-2027 SALARY MATRIX

Effective: 6/19/26
Adopted by the Board on: June XX, 2026
Resolution # 2026-XX

	Range	Step A	Step A1	Step B	Step B1	Step C	Step C1	Step D	Step D1	Step E	Step E1	Step F	
		$240,188.65	$246,182.13	$252,346.85	$258,640.00	$265,104.39	$271,740.03	$278,525.50	$285,482.22	$292,610.18	$299,930.78	$307,422.63	Annual
General Manager and Chief Engineer	Contract	$20,015.72	$20,515.18	$21,028.90	$21,553.33	$22,092.03	$22,645.00	$23,210.46	$23,790.18	$24,384.18	$24,994.23	$25,618.55	Month
		$115.48	$118.36	$121.32	$124.35	$127.45	$130.64	$133.91	$137.25	$140.68	$144.20	$147.80	$/Hr.
Assistant General Manager (1)	31	$217,006.73	$222,422.26	$228,009.04	$233,702.85	$239,567.89	$245,539.97	$251,683.28	$257,955.03	$264,398.02	$271,012.25	$277,797.72	Annual
		$18,083.89	$18,535.19	$19,000.75	$19,475.24	$19,963.99	$20,461.66	$20,973.61	$21,496.25	$22,033.17	$22,584.35	$23,149.81	Month
		$104.33	$106.93	$109.62	$112.36	$115.18	$118.05	$121.00	$124.02	$127.11	$130.29	$133.56	$/Hr.
	30	$206,560.95	$211,719.62	$217,006.73	$222,422.26	$228,009.04	$233,702.85	$239,567.89	$245,539.97	$251,683.28	$257,955.03	$264,398.02	Annual
		$17,213.41	$17,643.30	$18,083.89	$18,535.19	$19,000.75	$19,475.24	$19,963.99	$20,461.66	$20,973.61	$21,496.25	$22,033.17	Month
		$99.31	$101.79	$104.33	$106.93	$109.62	$112.36	$115.18	$118.05	$121.00	$124.02	$127.11	$/Hr.
	29	$196,586.09	$201,530.71	$206,560.95	$211,719.62	$217,006.73	$222,422.26	$228,009.04	$233,702.85	$239,567.89	$245,539.97	$251,683.28	Annual
		$16,382.17	$16,794.23	$17,213.41	$17,643.30	$18,083.89	$18,535.19	$19,000.75	$19,475.24	$19,963.99	$20,461.66	$20,973.61	Month
		$94.51	$96.89	$99.31	$101.79	$104.33	$106.93	$109.62	$112.36	$115.18	$118.05	$121.00	$/Hr.
Director of Finance (1)	28	$187,146.36	$191,791.31	$196,586.09	$201,530.71	$206,560.95	$211,719.62	$217,006.73	$222,422.26	$228,009.04	$233,702.85	$239,567.89	Annual
		$15,595.53	$15,982.61	$16,382.17	$16,794.23	$17,213.41	$17,643.30	$18,083.89	$18,535.19	$19,000.75	$19,475.24	$19,963.99	Month
		$89.97	$92.21	$94.51	$96.89	$99.31	$101.79	$104.33	$106.93	$109.62	$112.36	$115.18	$/Hr.
Director of Operations (1)	27	$178,113.33	$182,565.63	$187,146.36	$191,791.31	$196,586.09	$201,530.71	$206,560.95	$211,719.62	$217,006.73	$222,422.26	$228,009.04	Annual
		$14,842.78	$15,213.80	$15,595.53	$15,982.61	$16,382.17	$16,794.23	$17,213.41	$17,643.30	$18,083.89	$18,535.19	$19,000.75	Month
		$85.63	$87.77	$89.97	$92.21	$94.51	$96.89	$99.31	$101.79	$104.33	$106.93	$109.62	$/Hr.
	26	$169,529.82	$173,768.06	$178,113.33	$182,565.63	$187,146.36	$191,791.31	$196,586.09	$201,530.71	$206,560.95	$211,719.62	$217,006.73	Annual
		$14,127.48	$14,480.67	$14,842.78	$15,213.80	$15,595.53	$15,982.61	$16,382.17	$16,794.23	$17,213.41	$17,643.30	$18,083.89	Month
		$81.50	$83.54	$85.63	$87.77	$89.97	$92.21	$94.51	$96.89	$99.31	$101.79	$104.33	$/Hr.
Engineering Manager (1)	25	$161,353.00	$165,398.60	$169,529.82	$173,768.06	$178,113.33	$182,565.63	$187,146.36	$191,791.31	$196,586.09	$201,530.71	$206,560.95	Annual
		$13,446.08	$13,783.22	$14,127.48	$14,480.67	$14,842.78	$15,213.80	$15,595.53	$15,982.61	$16,382.17	$16,794.23	$17,213.41	Month
		$77.57	$79.52	$81.50	$83.54	$85.63	$87.77	$89.97	$92.21	$94.51	$96.89	$99.31	$/Hr.
	24	$153,582.88	$157,414.43	$161,353.00	$165,398.60	$169,529.82	$173,768.06	$178,113.33	$182,565.63	$187,146.36	$191,791.31	$196,586.09	Annual
		$12,798.57	$13,117.87	$13,446.08	$13,783.22	$14,127.48	$14,480.67	$14,842.78	$15,213.80	$15,595.53	$15,982.61	$16,382.17	Month
		$73.84	$75.68	$77.57	$79.52	$81.50	$83.54	$85.63	$87.77	$89.97	$92.21	$94.51	$/Hr.
Human Resources Manager (1)	23	$146,176.66	$149,815.55	$153,582.88	$157,414.43	$161,353.00	$165,398.60	$169,529.82	$173,768.06	$178,113.33	$182,565.63	$187,146.36	Annual
		$12,181.39	$12,484.63	$12,798.57	$13,117.87	$13,446.08	$13,783.22	$14,127.48	$14,480.67	$14,842.78	$15,213.80	$15,595.53	Month
		$70.28	$72.03	$73.84	$75.68	$77.57	$79.52	$81.50	$83.54	$85.63	$87.77	$89.97	$/Hr.
Accounting Manager (1)	22	$139,134.32	$142,601.98	$146,176.66	$149,815.55	$153,582.88	$157,414.43	$161,353.00	$165,398.60	$169,529.82	$173,768.06	$178,113.33	Annual
Innovation & Technology Manager (1)		$11,594.53	$11,883.50	$12,181.39	$12,484.63	$12,798.57	$13,117.87	$13,446.08	$13,783.22	$14,127.48	$14,480.67	$14,842.78	Month
		$66.89	$68.56	$70.28	$72.03	$73.84	$75.68	$77.57	$79.52	$81.50	$83.54	$85.63	$/Hr.
	21	$132,434.47	$135,752.29	$139,134.32	$142,601.98	$146,176.66	$149,815.55	$153,582.88	$157,414.43	$161,353.00	$165,398.60	$169,529.82	Annual
		$11,036.21	$11,312.69	$11,594.53	$11,883.50	$12,181.39	$12,484.63	$12,798.57	$13,117.87	$13,446.08	$13,783.22	$14,127.48	Month
		$63.67	$65.27	$66.89	$68.56	$70.28	$72.03	$73.84	$75.68	$77.57	$79.52	$81.50	$/Hr.
Water Operations Superintendent (2)	20	$126,055.69	$129,202.27	$132,434.47	$135,752.29	$139,134.32	$142,601.98	$146,176.66	$149,815.55	$153,582.88	$157,414.43	$161,353.00	Annual
Chief Plant Operator (1)		$10,504.64	$10,766.86	$11,036.21	$11,312.69	$11,594.53	$11,883.50	$12,181.39	$12,484.63	$12,798.57	$13,117.87	$13,446.08	Month
		$60.60	$62.12	$63.67	$65.27	$66.89	$68.56	$70.28	$72.03	$73.84	$75.68	$77.57	$/Hr.
Associate Engineer (1)	19	$119,976.59	$122,973.33	$126,055.69	$129,202.27	$132,434.47	$135,752.29	$139,134.32	$142,601.98	$146,176.66	$149,815.55	$153,582.88	Annual

		$9,998.05	$10,247.78	$10,504.64	$10,766.86	$11,036.21	$11,312.69	$11,594.53	$11,883.50	$12,181.39	$12,484.63	$12,798.57	Month
		$57.68	$59.12	$60.60	$62.12	$63.67	$65.27	$66.89	$68.56	$70.28	$72.03	$73.84	$/Hr.
	18	$114,197.17	$117,065.48	$119,976.59	$122,973.33	$126,055.69	$129,202.27	$132,434.47	$135,752.29	$139,134.32	$142,601.98	$146,176.66	Annual
		$9,516.43	$9,755.46	$9,998.05	$10,247.78	$10,504.64	$10,766.86	$11,036.21	$11,312.69	$11,594.53	$11,883.50	$12,181.39	Month
		$54.90	$56.28	$57.68	$59.12	$60.60	$62.12	$63.67	$65.27	$66.89	$68.56	$70.28	$/Hr.
Customer Service Manager	**17**	$108,717.42	$111,414.48	$114,197.17	$117,065.48	$119,976.59	$122,973.33	$126,055.69	$129,202.27	$132,434.47	$135,752.29	$139,134.32	Annual
WWTP Supervisor; **Compliance & Safety Officer (1)**		$9,059.78	$9,284.54	$9,516.43	$9,755.46	$9,998.05	$10,247.78	$10,504.64	$10,766.86	$11,036.21	$11,312.69	$11,594.53	Month
Water Production Supervisor (1)		$52.27	$53.56	$54.90	$56.28	$57.68	$59.12	$60.60	$62.12	$63.67	$65.27	$66.89	$/Hr.
C&M Supervisor (1)	**16**	$103,494.53	$106,063.16	$108,717.42	$111,414.48	$114,197.17	$117,065.48	$119,976.59	$122,973.33	$126,055.69	$129,202.27	$132,434.47	Annual
		$8,624.54	$8,838.60	$9,059.78	$9,284.54	$9,516.43	$9,755.46	$9,998.05	$10,247.78	$10,504.64	$10,766.86	$11,036.21	Month
		$49.76	$50.99	$52.27	$53.56	$54.90	$56.28	$57.68	$59.12	$60.60	$62.12	$63.67	$/Hr.
Programs and Public Affairs Specialist (1)	**15**	$98,507.10	$100,968.71	$103,494.53	$106,063.16	$108,717.42	$111,414.48	$114,197.17	$117,065.48	$119,976.59	$122,973.33	$126,055.69	Annual
Executive Assistant (1); GIS Specialist (1)		$8,208.92	$8,414.06	$8,624.54	$8,838.60	$9,059.78	$9,284.54	$9,516.43	$9,755.46	$9,998.05	$10,247.78	$10,504.64	Month
Lead WWTPO (1)		$47.36	$48.54	$49.76	$50.99	$52.27	$53.56	$54.90	$56.28	$57.68	$59.12	$60.60	$/Hr.
	14	$93,755.13	$96,109.71	$98,507.10	$100,968.71	$103,494.53	$106,063.16	$108,717.42	$111,414.48	$114,197.17	$117,065.48	$119,976.59	Annual
		$7,812.93	$8,009.14	$8,208.92	$8,414.06	$8,624.54	$8,838.60	$9,059.78	$9,284.54	$9,516.43	$9,755.46	$9,998.05	Month
		$45.07	$46.21	$47.36	$48.54	$49.76	$50.99	$52.27	$53.56	$54.90	$56.28	$57.68	$/Hr.
Lead Water Production Operator (1); **CSR Supervisor (1)**	**13**	$89,238.61	$91,464.76	$93,755.13	$96,109.71	$98,507.10	$100,968.71	$103,494.53	$106,063.16	$108,717.42	$111,414.48	$114,197.17	Annual
WWTPO III; Construction Inspector (1)		$7,436.55	$7,622.06	$7,812.93	$8,009.14	$8,208.92	$8,414.06	$8,624.54	$8,838.60	$9,059.78	$9,284.54	$9,516.43	Month
Business Analyst (1); Contracts Analyst (1); Accountant (2)		$42.90	$43.97	$45.07	$46.21	$47.36	$48.54	$49.76	$50.99	$52.27	$53.56	$54.90	$/Hr.
Lead Field Operations Technician (2)	**12**	$84,936.15	$87,055.27	$89,238.61	$91,464.76	$93,755.13	$96,109.71	$98,507.10	$100,968.71	$103,494.53	$106,063.16	$108,717.42	Annual
Lead Facilities Maintenance Worker (1)		$7,078.01	$7,254.61	$7,436.55	$7,622.06	$7,812.93	$8,009.14	$8,208.92	$8,414.06	$8,624.54	$8,838.60	$9,059.78	Month
Sr. Engineering Technician (1)		$40.83	$41.85	$42.90	$43.97	$45.07	$46.21	$47.36	$48.54	$49.76	$50.99	$52.27	$/Hr.
Lead Collections System Operator (1)	**11**	$80,847.74	$82,859.84	$84,936.15	$87,055.27	$89,238.61	$91,464.76	$93,755.13	$96,109.71	$98,507.10	$100,968.71	$103,494.53	Annual
WWTPO II (4)		$6,737.31	$6,904.99	$7,078.01	$7,254.61	$7,436.55	$7,622.06	$7,812.93	$8,009.14	$8,208.92	$8,414.06	$8,624.54	Month
Lead Field Services Rep. (1)		$38.87	$39.84	$40.83	$41.85	$42.90	$43.97	$45.07	$46.21	$47.36	$48.54	$49.76	$/Hr.
Engineering Technician II (1)	**10**	$76,930.58	$78,857.05	$80,847.74	$82,859.84	$84,936.15	$87,055.27	$89,238.61	$91,464.76	$93,755.13	$96,109.71	$98,507.10	Annual
Water Production Operator II (1)		$6,410.88	$6,571.42	$6,737.31	$6,904.99	$7,078.01	$7,254.61	$7,436.55	$7,622.06	$7,812.93	$8,009.14	$8,208.92	Month
		$36.99	$37.91	$38.87	$39.84	$40.83	$41.85	$42.90	$43.97	$45.07	$46.21	$47.36	$/Hr.
Administrative Assistant II (1); Sr Customer Service Rep	**9**	$73,206.06	$75,046.91	$76,930.58	$78,857.05	$80,847.74	$82,859.84	$84,936.15	$87,055.27	$89,238.61	$91,464.76	$93,755.13	Annual
Collections System Operator II; WWTPO I (1)		$6,100.50	$6,253.91	$6,410.88	$6,571.42	$6,737.31	$6,904.99	$7,078.01	$7,254.61	$7,436.55	$7,622.06	$7,812.93	Month
Field Operations Technician II (4);		$35.20	$36.08	$36.99	$37.91	$38.87	$39.84	$40.83	$41.85	$42.90	$43.97	$45.07	$/Hr.
Accounting Technician (1); Engineering Technician I	**8**	$69,652.78	$71,408.01	$73,206.06	$75,046.91	$76,930.58	$78,857.05	$80,847.74	$82,859.84	$84,936.15	$87,055.27	$89,238.61	Annual
Water Production Op I		$5,804.40	$5,950.67	$6,100.50	$6,253.91	$6,410.88	$6,571.42	$6,737.31	$6,904.99	$7,078.01	$7,254.61	$7,436.55	Month
Field Services Rep. II/Backflow Specialist (1)		$33.49	$34.33	$35.20	$36.08	$36.99	$37.91	$38.87	$39.84	$40.83	$41.85	$42.90	$/Hr.
Field Operations Technician I (3); Field Service Rep. II	**7**	$66,292.15	$67,940.36	$69,652.78	$71,408.01	$73,206.06	$75,046.91	$76,930.58	$78,857.05	$80,847.74	$82,859.84	$84,936.15	Annual
Collections System Operator I (2); Admin. Assistant I (2)		$5,524.35	$5,661.70	$5,804.40	$5,950.67	$6,100.50	$6,253.91	$6,410.88	$6,571.42	$6,737.31	$6,904.99	$7,078.01	Month
Purchasing and Warehouse Specialist (1)		$31.87	$32.66	$33.49	$34.33	$35.20	$36.08	$36.99	$37.91	$38.87	$39.84	$40.83	$/Hr.
Customer Service Rep II (2)	**6**	$63,102.77	$64,686.76	$66,292.15	$67,940.36	$69,652.78	$71,408.01	$73,206.06	$75,046.91	$76,930.58	$78,857.05	$80,847.74	Annual
W.W. Operator Trainee		$5,258.56	$5,390.56	$5,524.35	$5,661.70	$5,804.40	$5,950.67	$6,100.50	$6,253.91	$6,410.88	$6,571.42	$6,737.31	Month
		$30.34	$31.10	$31.87	$32.66	$33.49	$34.33	$35.20	$36.08	$36.99	$37.91	$38.87	$/Hr.
Field Service Rep. I (1)	**5**	$60,063.22	$61,561.59	$63,102.77	$64,686.76	$66,292.15	$67,940.36	$69,652.78	$71,408.01	$73,206.06	$75,046.91	$76,930.58	Annual
		$5,005.27	$5,130.13	$5,258.56	$5,390.56	$5,524.35	$5,661.70	$5,804.40	$5,950.67	$6,100.50	$6,253.91	$6,410.88	Month
		$28.88	$29.60	$30.34	$31.10	$31.87	$32.66	$33.49	$34.33	$35.20	$36.08	$36.99	$/Hr.
Office Specialist II	**4**	$57,173.50	$58,586.25	$60,063.22	$61,561.59	$63,102.77	$64,686.76	$66,292.15	$67,940.36	$69,652.78	$71,408.01	$73,206.06	Annual
Customer Service Rep. I (1)		$4,764.46	$4,882.19	$5,005.27	$5,130.13	$5,258.56	$5,390.56	$5,524.35	$5,661.70	$5,804.40	$5,950.67	$6,100.50	Month
		$27.49	$28.17	$28.88	$29.60	$30.34	$31.10	$31.87	$32.66	$33.49	$34.33	$35.20	$/Hr.
	3	$54,390.82	$55,760.75	$57,173.50	$58,586.25	$60,063.22	$61,561.59	$63,102.77	$64,686.76	$66,292.15	$67,940.36	$69,652.78	Annual
		$4,532.57	$4,646.73	$4,764.46	$4,882.19	$5,005.27	$5,130.13	$5,258.56	$5,390.56	$5,524.35	$5,661.70	$5,804.40	Month
		$26.15	$26.81	$27.49	$28.17	$28.88	$29.60	$30.34	$31.10	$31.87	$32.66	$33.49	$/Hr.
Office Specialist I	**2**	$51,779.37	$53,063.69	$54,390.82	$55,760.75	$57,173.50	$58,586.25	$60,063.22	$61,561.59	$63,102.77	$64,686.76	$66,292.15	Annual
		$4,314.95	$4,421.97	$4,532.57	$4,646.73	$4,764.46	$4,882.19	$5,005.27	$5,130.13	$5,258.56	$5,390.56	$5,524.35	Month

		$24.89	$25.51	$26.15	$26.81	$27.49	$28.17	$28.88	$29.60	$30.34	$31.10	$31.87	$/Hr.
	1	$49,253.55	$50,516.46	$51,779.37	$53,063.69	$54,390.82	$55,760.75	$57,173.50	$58,586.25	$60,063.22	$61,561.59	$63,102.77	Annual
		$4,104.46	$4,209.71	$4,314.95	$4,421.97	$4,532.57	$4,646.73	$4,764.46	$4,882.19	$5,005.27	$5,130.13	$5,258.56	Month
		$23.68	$24.29	$24.89	$25.51	$26.15	$26.81	$27.49	$28.17	$28.88	$29.60	$30.34	$/Hr.

New position

RESOLUTION NO. 2026-09

A RESOLUTION OF THE BOARD OF DIRECTORS OF MISSION SPRINGS WATER DISTRICT ADOPTING THE OPERATING AND CAPITAL BUDGETS FOR FISCAL YEAR 2026-2027 AND ESTABLISHING CONTROLS ON CHANGES IN APPROPRIATIONS FOR THE VARIOUS FUNDS

WHEREAS, the Board of Directors of the Mission Springs Water District has reviewed a preliminary budget for FY 2026-2027 and has made any desired changes therein; and

NOW, THEREFORE, BE IT RESOLVED, DETERMINED AND ORDERED by the Board of Directors of Mission Springs Water District as follows:

Section 1: That the Board of Directors approves and adopts the operating budget for the fiscal year beginning July 1, 2026, and ending June 30, 2027, as presented.

Section 2: That the Board of Directors approves and adopts the capital budget presented for the fiscal year beginning July 1, 2026, and ending June 30, 2027.

Section 3: That the following controls are hereby placed on the use and transfer of budgeted funds:

a. The General Manager is responsible for keeping expenditures within budget allocations for positions, salaries, operational expenses and capital acquisitions and may adopt budget policies as necessary to carry out that responsibility. No expenditure of funds shall be authorized unless sufficient funds have been appropriated by the Board or General Manager as described herein.

b. The General Manager may exercise discretion in administration of the budget to respond to changed circumstances, provided that any single modification in excess of $50,000 shall require approval by the Board.

c. The Department Heads may exercise discretion in administration of the budget within a single department to respond to changed circumstances, provided that any single modification in excess of $5,000 shall require approval by the General Manager.

d. No transfers will be made between the operational and capital budgets.

e. Except as provided by Section 3(b) herein, the Board must authorize any increase in the overall operating budget, capital budget, salary budget, and number of authorized permanent personnel positions above the level identified in the final operating and capital budget. The General Manager may authorize the hiring of temporary or part-time staff as necessary, within the limits imposed by the available funds in the operating and capital budget.

Section 4: That authorization is made for any carry over or continuing appropriations for the capital budget.

Section 5: That the Secretary is authorized and directed to forward a certified copy of this Resolution to the Riverside County Auditor.

ADOPTED this ___day of June 2026, by the following vote:

Ayes:
Noes:
Abstain:
Absent:

Amber Duff
President of Mission Springs Water District
and its Board of Directors

ATTEST:

Brian Macy
Secretary of Mission Springs Water District
and its Board of Directors

RESOLUTION NO. 2026-10

A RESOLUTION OF THE BOARD OF DIRECTORS OF MISSION SPRINGS WATER DISTRICT ADOPTING ITS REVISED APPROPRIATIONS LIMIT FOR FISCAL YEAR 2026-2027

WHEREAS, the Gann Initiative or Proposition 4, as amended by Proposition 111, and referred to herein as Article XIIIB of the Constitution of the State of California, was passed by the people; and

WHEREAS, Article XIIIB mandates an appropriations and expenditures limit for various units of government including Mission Springs Water District; and

WHEREAS, the Finance Department of Mission Springs Water District calculated that limit using current guidelines from the League of California Cities, the Consumer Price Index, and information received from the State of California regarding population increases; and

WHEREAS, the Board of Directors of Mission Springs Water District must formally adopt that appropriations limit; and

WHEREAS, the documentation used to determine the revised 2026-2027 appropriations limit for Mission Springs Water District was available for public review in the District's Accounting Department at least fifteen days prior to adopting this Resolution;

NOW, THEREFORE, BE IT RESOLVED, DETERMINED AND ORDERED by the Board of Directors of Mission Springs Water District**,** in accordance with Article XIIIB of the Constitution of the State of California, that the revised appropriations limit for Mission Springs Water District for fiscal year 2026-2027 is $141,502,909.83.

ADOPTED this ___ day of June 2026, by the following vote:

Ayes:
Noes:
Abstain:
Absent:

ATTEST:

Amber Duff
President of Mission Springs Water District and its Board of Directors

Brian Macy
Secretary of Mission Springs Water District and its Board of Directors

RESOLUTION NO. 2026-11

A RESOLUTION OF THE BOARD OF DIRECTORS OF MISSION SPRINGS WATER DISTRICT APPROVING AND ADOPTING ITS EMPLOYEE CLASSIFICATION AND COMPENSATION PLAN EFFECTIVE JULY 1, 2026

WHEREAS, the Board of Directors, by Resolution, annually adopts a Classification and Compensation Plan for its employees; and

WHEREAS, after careful consideration, the Board of Directors determined the attached Classification and Compensation Plan, indicating the number of positions for each classification and assigning titles for those positions, is necessary for the efficient and effective operation of the District;

NOW, THEREFORE, BE IT RESOLVED, DETERMINED AND ORDERED that the Board of Directors of Mission Springs Water District hereby approves and adopts the attached Classification and Compensation Plan for its employees effective July 1, 2026.

ADOPTED this ____day of June 2026, by the following vote:

Ayes:
Noes:
Abstain:
Absent:

Amber Duff
President of Mission Springs Water District
and its Board of Directors

ATTEST:

Brian Macy
Secretary of Mission Springs Water District
and its Board of Directors

AGENDA STAFF REPORT

MEETING NAME: **REGULAR BOARD MEETING**

MEETING DATE(S): **JUNE 11 & JUNE 15, 2025**

FROM: **ORIANA HOFFERT – HUMAN RESOURCES MANAGER**

FOR: **ACTION _X__** DIRECTION ____ INFORMATION ____

RESOLUTION NO. 2026-05 – AMENDING THE CODIFIED MISSION SPRINGS WATER DISTRICT PERSONNEL RULES AND REGULATIONS TITLE 3 – PERSONNEL

STAFF RECOMMENDATION

Adopt Resolution No. 2026-05 updating the codified Mission Springs Water District (MSWD) Personnel Rules and Regulations, Title 3 - Personnel.

SUMMARY

The MSWD Personnel Rules and Regulations, Title 3 - Personnel (aka Employee Handbook) provide guidance and information related to the District's employment policies, procedures, and benefits in a written format.

The MSWD Personnel Rules and Regulations was most recently updated in July 2025, when the MSWD Board of Directors (Board) adopted Resolution No. 2025-17 updating Title 3 -Personnel.

In order to ensure that the District is in full compliance with laws implemented by state and federal agencies, the District regularly reviews and revises the Personnel Rules and Regulations. The revised Personnel Rules and Regulations include updates to existing policies to clarify policy language, incorporate employee requests adopted for fiscal year 2027, and to comply with new laws.

Exhibit "A" outlines currently proposed amendments to the MSWD Personnel Rules and Regulations.

FISCAL IMPACT & STRATEGIC PLAN IMPLEMENTATION

There is no cost associated with updating the Administrative Code. This action is consistent with Strategic Plan Smart Goal 7 -workforce excellence.

ATTACHMENTS

Attachment 1_Resolution No. 2026-05
Attachment 2_Exhibit "A" Revisions to Personnel Rules and Regulations

FINANCIAL DATA		
Cost Associated with this action:		$0
Current FY cost:		$0
Future FY cost:		$0
Is it covered in the current year budget:	YES ☒	NO ☐
Budget adjustment needed:	YES ☐	NO ☒
If yes, the year needed:		N/A
All previous contracts, including dates, amounts and board approvals are attached or have been made available.		
FUNDING SOURCES		
Source of funds:		N/A
BID/Job#		N/A
Current BID/Job balance		$0
Balance remaining if approved:		$0

RESOLUTION NO. 2026-05

A RESOLUTION TO THE BOARD OF DIRECTORS OF MISSION SPRINGS WATER DISTRICT AMENDING THE CODIFIED MISSION SPRINGS WATER DISTRICT PERSONNEL RULES AND REGULATIONS TITLE 3 - PERSONNEL

WHEREAS, the Board of Directors of the Mission Springs Water District ("Board of Directors") has previously codified as Title 3 - Personnel certain policies, procedures, practices and standards regarding the relationship, rights, privileges, obligations, and duties of the Mission Springs Water District ("District") and its employees; and

WHEREAS, it is right and proper for the Board of Directors to review and update the provisions of Title 3 to help ensure that the District's policies, procedures, practices and standards are in conformity with changing laws and regulations, as well as to enhance the District's policies, procedures, practices, and standards to help promote a positive and productive workplace;

THEREFORE, BE IT RESOLVED by the Board of Directors that Title 3 - Personnel, as shown in Exhibit A to this Resolution, is hereby amended and adopted, with these adopted changes deemed in full force and effect July 1, 2026.

BE IT ALSO RESOLVED by the Board of Directors that the General Manager is directed to carry out those steps reasonable or necessary to inform all employees of the adopted changes to Title 3 - Personnel, and to ensure the ability of the District to enforce these changes as of July 1, 2026.

ADOPTED this ___ day of July 2026, by the following vote:
Ayes:
Noes:
Abstain:

_____
Amber Duff
President of Mission Springs Water District
and its Board of Directors

ATTEST:

_____
Brian Macy
Secretary of Mission Springs Water District
and its Board of Directors

Resolution No. 2026-05

Exhibit A

Below represents the changes made to the codified Mission Springs Water District Personnel Rules and Regulations Title 3 – Personnel.

Section 3.03.010 - Rule 15.J.3. Emergency Appointment – Working Out of Class

After thirty (30) working days ~~calendar~~ days of such temporary assignment, the employee working out-of-class shall be paid at Step A of the higher classification, or a rate one (1) step (representing a 5% increase, including any incentive pay rights) greater than his/her current rate, whichever provides the greater compensation for the level of duties actually assigned and performed…

Section 3.03.030 - Rule 17.A.2. Retired Annuitants

C. Future Employment. If the retired annuitant accepts employment with another employer after their retirement, the annuitant must advise the District if the same or substantially similar health coverage is available through the future employer. In such a situation, the District is only obligated to reimburse the retired annuitant for the actual out of pocket costs they must pay for such future insurance. A failure to provide notice to the District of future employment with health coverage benefits may result in a claim by the District against the retired annuitant for amounts the District would have saved if the required notice obligation was met.

Section 3.03.050- Rule 19.D.1. Transportation

~~Airfare. Airfares that are equal or less than those available through the Enhanced Local Government Airfare Program offered through the League of California Cities (www.cacities.org/travel) the California State association of Counties (www.csac.counties.org/default.asp?id_635) and the State of California are presumed to be the most economical and reasonable for purposes of reimbursement under this policy. Airfares that do not exceed the median fares listed on websites like www.travelocity.com or an equivalent service, shall also be considered reasonable and hence reimbursable.~~

Airfare. Employees are expected to exercise prudent judgment and obtain the lowest reasonable airfare available for business travel. Employees should use commonly available travel search platforms (such as Travelocity, Priceline, Google Flights, Expedia, or similar services) to compare airfare options and select the best overall value in regular coach/economy class, including standard boarding.

In evaluating airfare options, employees should consider the total cost of travel, including baggage fees, number of stops, travel time, scheduling practicality, and other business-related considerations. Personal preferences for a specific airline, seating upgrades, or loyalty/rewards programs should not influence the selection unless there is no additional cost to the District.

Employees should also evaluate whether bundled travel arrangements (such as airfare, hotel, and/or rental car packages) provide additional cost savings and utilize such options when they result in the best overall value.

~~Car Rental. Rental rates that are equal to or less than those available through the State of California's website (www.catravelsmart.com/default.htm), or which represent the median~~
~~Page 36 July 2025 rates listed on websites like www.travelocity.com or an equivalent service, shall be considered the most economical and reasonable for purposes of reimbursement under this policy.~~

Car Rental. Employees are expected to exercise prudent judgment and obtain the lowest reasonable rental car rate available for business travel. Employees should use commonly available travel search platforms (such as Priceline, Google, Expedia, or similar services) to compare rental options and select an appropriate vehicle based on business needs, typically a standard or mid-size vehicle depending on the number of passengers and travel requirements.
Optional insurance coverage offered by the rental company should generally be declined when the employee is covered under the District's insurance program or other authorized coverage. Any optional insurance purchased without authorization may be at the employee's expense.
Prepaid fuel options should only be selected when they are reasonably expected to result in overall cost savings based on anticipated travel usage.

Section 3.03.050 - Rule 19.D.2.b. Other Lodging

Other Lodging. Travelers must request government lodging rates, when available. ~~A listing of hotels offering government rates in different areas is available at www.catravelsmart.com/lodguideframes.htm.~~ Lodging rates that are equal to or less than government rates are presumed to be reasonable and hence reimbursable for purposes of this policy. In the event that government rates are not available at a given time or in a given
area, websites like www.travelocity.com or www.expedia.com or an equivalent service shall be considered reasonable and hence reimbursable if, given the circumstances of the travel, such comparable rates can be found. In unique circumstances, the General Manager may

approve the reimbursement of reasonable lodging costs that exceed the ~~two (2)standards~~ above, if necessary, under the particular circumstances.

Section 3.04.010 - Rule 22.D.1. Overtime Definition and Rates of Pay.

Overtime Definition and Rates of Pay. All nonexempt employees will receive overtime pay in accordance with applicable law for all hours worked over their regularly scheduled hours pursuant to the 9/80 workweek adopted by the District, i.e., all hours over forty (40) hours per week.

Overtime will be computed on actual minutes worked, adjusted to the nearest 15-minute increment.

Those hours that are actually worked, approved scheduled vacations days, optional holidays, and District holidays are counted to determine an employee's overtime pay. An "approved scheduled" vacation day or optional holiday is a day that has been scheduled and approved two weeks in advance. Certain types of pay are excluded from the calculation of employees' regular rates of pay for purposes of determining the number of overtime compensation due because they are payments made for periods when no work is performed. Those types of pay include: vacation or optional holiday (where less than two-week notice was given), sick, reporting time, jury duty, compensatory time, pay for bereavement leave, and/or discretionary bonuses.

Section 3.04.010 – Rule 22.E. Standby

Standby Time. Standby means a period of time outside an employee's regularly scheduled work hours during which the employee is required to remain available (on-call) for emergencies, after-hour customer calls, monitoring of the SCADA system via computer and responding to alarm calls. The on-call period is to be determined by the employee's direct supervisor. The supervisor shall be responsible for preparing an on-call schedule. To the extent feasible, given the work force available, exempt employees shall not be placed on the on-call roster. In the event that an employee does not wish to serve standby time, with the supervisor's consent, the employee may be excused if another worker volunteers to serve in the employee's place. This rule does not apply if the employee seeking to be excused is on sick leave.

Other than the response time described below, the standby employee is free to use the off-duty time without restriction. The employee shall carry a District issued mobile phone, as determined by the District, while on standby. The employee is expected to physically respond to a call for service as soon as possible and no later than ~~between 30 to~~ 45 minutes from receipt of the call; however, such time may be extended upon mutual consent of the employee and Supervisor.

All time worked ~~spent on call-backs~~ during a standby period is compensable. Time worked includes a reasonable time for travel both to and from the worksite. If while on

standby, the employee engages in work (i.e., responds to a call out, telephone call, etc.), ~~all~~ time spent by the employee performing his or her job duties ~~or otherwise responding~~ is compensable and should be reported as time worked, even if the recorded time is limited or nominal. ~~and must be paid~~. Employees must keep accurate records of time worked while on call and report such time to the District. The reporting obligation includes the amount of time it took the employee to respond to the call even if it is determined that no service is required.

When on standby, ~~the employee is entitled to receive~~ employees are free to engage in personal activities, within a broad geographic area that still allows employees to be able to respond to a call for service as soon as possible and no later than 45 minutes. When on call, the District will provide a ~~the~~ minimum standby pay of (a) 1.5 hours for such service performed Monday-Friday, at the employee's one and one-half rate. ~~in addition to overtime pay.~~ ~~The minimum standby compensation is 1.5 hours overtime calculated based on the employee's regular rate for each day of standby duty served Monday through Friday~~,(b) 3.0 hours for such service on a Saturday, Sunday, and on the employee's scheduled day off under the 9/80 schedule at the employee's one and one-half rate ~~regular~~ rate, ~~would exceed the 40 hour per week threshold for overtime, and calculated based on the employee's regular rate for each day standby duty is served on Saturday, Sunday, District holidays and on the employee's schedule day off under the~~ , and (c) 4.0 hours for a District-declared holiday, or 6.0 hours for Thanksgiving Day or Christmas Day at one and one-half rate. ~~and 6.0 hours will be calculated based on the employee's regular rate of pay for Thanksgiving Day and Christmas Day only. In addition to the minimum compensation set forth above, each employee on standby is entitled to overtime pay at the applicable rate for time worked.~~

F. Minimum Call-out Compensation for Employees on Standby

Employees who are on assigned standby duty and are required to physically respond to a District facility, field location, or other worksite outside of their regular working hours shall receive a minimum of one and one-half (1.5) hours of compensation for each qualifying call-out.

A qualifying call-out occurs when the employee is required to leave their home or current location and travel to a District site to perform work-related duties.

Compensation shall begin at the time the employee receives the call-out assignment and shall include travel time associated with the response.

1. Remote Responses If an employee is able to fully resolve or respond to an issue remotely without leaving home or traveling to a District location, compensation shall be paid in fifteen (15) minute increments based on actual time worked.

Examples of remote response work may include:

- Answering work-related telephone calls;
- Responding to alarms remotely;
- Logging into District systems or computers from home; or
- Providing troubleshooting assistance without physically reporting to a location.

The one and one-half (1.5) hour minimum call-out compensation does not apply to remote responses.

2. Multiple Responses Within the Minimum Compensation Period When an employee physically responds to a qualifying call-out, and receives additional calls, or performs any additional work on other matters during the same one and one-half (1.5) hour compensation period, no additional minimum call-out compensation shall apply.

If work related to additional calls extends beyond the original one and one-half (1.5) hour period, the employee shall be compensated in fifteen (15) minute increments for actual time worked beyond the guaranteed minimum period. However, employees should not continue performing regular or routine tasks not related to the call out unless such matters must be addressed before the employee's next regularly scheduled workday.

Example:

- Employee receives a call-out at 12:00 p.m. and physically responds.
- Employee completes the work and returns home at 12:40 p.m.
- Employee receives another call at 1:00 p.m. requiring additional response.

Because the second call occurs within the original 1.5-hour compensation window (12:00 p.m. to 1:30 p.m.), no additional minimum call-out compensation applies.
If work associated with the second call continues beyond 1:30 p.m., the employee shall be compensated in fifteen (15) minute increments for time worked after 1:30 p.m.

3. Separate Call-Out Events If a new qualifying call-out occurs after the expiration of the original call-out event, one and one-half (1.5) hour compensation period, the employee shall receive a new minimum one and one-half (1.5) hour call-out compensation period.

Example:

- Employee responds to a physical call-out event at 12:00 p.m., receiving minimum compensation through 1:30 p.m.
- Employee receives another qualifying physical call-out event at 5:00 p.m.

Because the second response occurs outside the original compensation period, the employee shall receive an additional minimum one and one-half (1.5) hours of compensation.

Overtime - All standby call-out compensation shall be paid in accordance with applicable overtime provisions of the Fair Labor Standards Act (FLSA). Please see our Employee Handbook for additional information regarding overtime considerations.

Section 3.04.020 – Rule 23.A. District Paid Holidays

Effective July 1, 2026

In addition, the District recognizes that employees celebrate many holidays that are not recognized by the District. Therefore, after six (6) full months of service in the initial fiscal ~~calendar~~ year of employment for new employees, and at the beginning of each fiscal ~~calendar~~ year for regular employees, a credit of ~~thirty-six (36)~~ forty-five (45) hours of Optional Holiday benefits are given. These hours can be used at the employee's option with prior approval of the employee's supervisor. Employees may only have a maximum of ~~36~~ 45 hours of Optional Holiday benefits. At the beginning of each fiscal ~~calendar~~ year, employees who have less than ~~36~~ 45 hours of Optional Holiday benefits will be provided with additional benefits to bring their benefits back up to the maximum of ~~36~~ 45 total hours for the year. No employee may have more than ~~36~~ 45 hours of Optional Holiday benefits each fiscal ~~calendar~~ year.

Section 3.04.050 – Rule 26.E.1.d.iii. Sick Leave Accrual for Full-Time Regular Employees

Compensation for unused accumulated sick leave will be ~~made~~ paid no later than the third pay period ~~the second pay period in January~~ of each year at the employee's current rate of pay. Sick leave for which the employee receives compensation will be deducted from the employee's accumulated total. If desired and eligible, in lieu of cash payment, the accumulated time may be added to the employee's vacation time at the discretion of the immediate supervisor and subject to approval by the General Manager.

Section 3.04.050 – Rule 26.E.6.

f. ~~An employee on a leave of absence due to illness or injury must exhaust all other paid leave, including, but not limited to, vacation leave and administrative leave, before the leave may be taken without pay. This provision shall not apply to accrued compensatory time off~~.

An employee on an unpaid leave of absence under the Family Medical Leave Act ("FMLA) or the California Family Rights Act ("CFRA"), who is not eligible or entitled to benefits under any State Disability Insurance (including Pregnancy Disability Leave), Paid Family Leave ("PFL), or Workers' Compensation paid leave program, must

exhaust vacation leave, optional holiday days, and administrative leave days (but not compensatory time or paid sick leave days) before the leave may proceed on an unpaid basis.

This provision shall not apply to leaves of absence where the employee is receiving, or will in the future receive, paid leave of absence benefits under any federal or state law (SDI, PFL, etc.), or military leaves of absence covered by the Uniformed Services Employment and Re-employment Rights Act of 1994 (USERRA). An employee may, however, elect to use paid sick days and vacation days as wage replacement for approved FMLA, CFRA, PFL, or Workers' Compensation leaves of absence for any initial unpaid benefits period or for the difference between the amount received under such programs and the amount of your average base pay.

Section 3.04.060 – Rule 27.B.3.

3. Substitution of Paid Leave ~~Employees are required to substitute accrued vacation time and other paid personal leave (except sick leave) for all family care, medical leave, and military leave. Employees on leave for occupational injuries may elect to substitute paid leave for any portion of unpaid leave. Employees may elect to substitute sick leave to attend to an illness of a child, parent, spouse or domestic partner of the employee *or* for other types of family care leave. Employees are required to substitute sick leave only for the employee's own medical leaves. During the time an employee is receiving Paid Family Leave benefits, he/she will be required to exhaust up to 2 weeks of accrued and unused vacation benefits, and employees, at their discretion, may use any accrued and unused sick leave.~~

If an employee is receiving State Disability Insurance for a personal health reason, or the employee has suffered an occupational injury for which workers' compensation benefits covering a workplace leave of absence has been approved, the employee is not required to use paid sick days to supplement such payments up to 100% of the employee's otherwise applicable base rate of pay, although the employee may request that paid sick days, vacation, or other accrued paid leave, be used in this manner.

If an employee has received an approved leave of absence to care for a family member under the California Family Rights Act (parent, child, spouse, grandparent, grandchild, or designated person), and is receiving Paid Family Leave, the employee is not required to use paid sick days to supplement such payments up to 100% of the employee's otherwise applicable base rate of pay, although the employee may request that paid sick days, vacation, or other accrued paid leave, be used in this manner. If the employee is not eligible for Paid Family Leave benefits, the employee will be required to exhaust any accrued paid vacation days during the leave of absence, and may request that paid sick days also be used.

Section 3.04.060– Rule 27.F. Other Leaves of Absence

The District will provide full-time regular and probationary employees paid time off to serve, as required by law, on a jury or grand jury if the employee provides at minimum 2 weeks advanced notice of the Summons and prompt notice after receiving confirmation of required attendance or appearance (usually confirmed the night before the required appearance) ~~reasonable advance notice.~~ The District will also provide full-time regular and probationary employees with unpaid time off to appear in court or other judicial proceedings as a witness to comply with a valid subpoena or other court order.

Section 3.04.060 – Rule 27.G. Coordination of Benefits

G.~~F~~ COORDINATION OF BENEFITS

Section 3.06.010 – Rule 33.B. Harassment Defined

Sexually harassing conduct in particular may include all of these prohibited actions, as well as other unwelcome conduct, such as requests for sexual favors, conversation containing sexual comments, and other unwelcome sexual advances. Sexually harassing conduct can be by a person of any gender or gender identification ~~either the same or opposite sex.~~ Sexually harassing conduct need not be motivated by sexual desire to be in violation of this policy.

Section 3.06.030 – Rule 35.V. Disciplinary Action

Upon a voluntary disclosure of an alcohol or drug dependency or potential dependency, disclosed to a manager or Human Resources, the District will engage in the interactive process and determine whether a reasonable accommodation, including a potential leave of absence, may be appropriate under the circumstances.

~~A violation of this policy~~ Violations of this policy, particularly incidents involving actual or threatened harm to an individual or property, will subject the employee to discipline up to and including immediate termination.

Section 3.06.070 – Rule 39.B.Education and Certification Incentive Pay

3. Commercial Driver's License (CDL) Bonus

Field employees who are routinely scheduled for standby duty and who voluntarily maintain a CDL that is not required as part of their job description (~~not ordinarily required for their job)~~
will be entitled to an additional two-and-one-half percent (2 ½%) of base pay. This compensation is not reportable to CalPERS.

G. Approved list of Job Eligible Certifications for Field Employees:

Collections System Operator I	Grade II California Water Environment Association Collections Maintenance Certificate Grade III California Water Environment Association Collections Maintenance Certificate
Collections System Operator II	Grade III California Water Environment Association Collection System Maintenance Certificate ~~Grade IV California Water Environment Association Collection System Maintenance Certificate~~
Field Operations Technician I	Grade II (D-2) Water Distribution Certificate Grade III (D-3) Water Distribution Certificate
Field Operations Technician II	Grade III (D-3) Water Distribution Certificate Grade I (T-1) Water Treatment Certificate ~~Grade IV (D-4) Water Distribution Certificate~~
Field Service Representative I	Grade II (D-2) Water Distribution Certificate Grade III (D-3) Water Distribution Certificate
Field Service Representative II/Backflow Specialist	~~Grade II (D-2) Water Distribution Certificate~~ Grade III (D-3) Water Distribution Certificate Grade II (T-2) Water Treatment Certificate ~~Grade III (T-3) Water Treatment Certificate~~
Field Service Representative II	Grade III (D-3) Water Distribution Certificate ~~Grade IV (D-4) Water Distribution Certificate~~ Grade II (T-2) Water Treatment Certificate ~~Grade III (T-3) Water Treatment Certificate~~
Lead Field Service Representative	Grade III (D-3) Water Distribution Certificate Grade IV (D-4) Water Distribution Certificate ~~Grade III (T-3) Water Treatment Certificate~~
~~Lead Collections System Operator~~	~~Grade IV California Water Environment Association Collection System~~
Lead Field Operations Technician	Grade IV (D-4) Water Distribution Certificate ~~Grade V (D-5) Water Distribution Certificate~~ Grade II (T-2) Water Treatment Certificate ~~Grade III (T-3) Water Treatment Certificate~~
Lead Wastewater Treatment Plant Operator	Grade IV Wastewater Treatment Plant Operator Certificate ~~Grade V Wastewater Treatment Plant Operator Certificate~~ ~~Grade III Collection System Maintenance Certificate~~
Lead Water Production Operator	Grade IV (D-4) Water Distribution Operator's Certificate
Water Production Operator I	Grade II (D-2) Water Distribution Operator's Certificate Grade III (D-3) Water Distribution Operator's Certificate

	Grade II (T-2) Water Treatment Operator's Certificate ~~Grade III (T-3) Water Treatment Operator's Certificate~~
Water Production Operator II	Grade III (D-3) Water Distribution Operator's Certificate Grade IV (D-4) Water Distribution Operator's Certificate Grade II (T-2) Water Treatment Operator's Certificate ~~Grade III (T-3) Water Treatment Operator's Certificate~~
Wastewater Treatment Plant Operator I	Grade II Wastewater Treatment Operator's Certificate Grade III Wastewater Treatment Operator's Certificate ~~Grade II Collection System Maintenance Certificate~~
Wastewater Treatment Plant Operator II	Grade III Wastewater Treatment Plant Operator Certificate Grade IV Wastewater Treatment Plant Operator Certificate ~~Grade III Collection System Maintenance Certificate~~
Wastewater Treatment Plant Operator III	Grade IV Wastewater Treatment Plant Operator Certificate Grade II Collection System Maintenance Certificate

Section 3.06.080 – Rule 40. Bilingual Pay

A. Eligibility. Employees who demonstrate, to the satisfaction of the District, the ability

to communicate in a foreign language will receive a stipend in the amount of ~~$25~~ $50 per pay period. These employees may be required to communicate with customers, review literature that has been translated by third parties, and/or to translate simple documents from a foreign language to English or vice versa.

AGENDA STAFF REPORT

MEETING NAME: **REGULAR BOARD MEETING(S)**

MEETING DATE(S): **JUNE 11 & 15, 2026**

FROM: **DORI PETEE – EXECUTIVE ASSISTANT**

FOR: ACTION _X__ DIRECTION ____ INFORMATION ____

RESOLUTION 2026-12 ~ NOTICE OF GENERAL DISTRICT ELECTION, NOVEMBER 3, 2026, AND ESTABLISHMENT OF DEPOSIT FOR OPTIONAL CANDIDATE'S STATEMENT

STAFF RECOMMENDATION

Adopt Resolution 2026-12, and authorize the Executive Assistant to notify the County Registrar of Voters that the offices of two board members are to be filled and that candidates will be responsible for the costs associated with the Candidate's Statement.

SUMMARY

The District is required to notify the Riverside County Registrar of Voters of the holding of the 2026 election for two directors' seats currently held by Amber Duff, and Ted Mayrhofen.
Pursuant to provisions of the California Elections Code, the Board of Directors must adopt certain resolutions related to the General District Election. As such, it is necessary to submit the appropriate resolutions to the County of Riverside for consolidation and for the Board to approve necessary costs associated with the election. The election costs include the polling place cost, direct costs such as printing, mailing, publications, translations, transporting, security, processing ballots, election supplies, staffing, temporary staff, and election payroll. Election costs are distributed among all jurisdictions that are on the ballot. Each estimate is based on the current number of registered voters in each county.

ANALYSIS

In prior MSWD general district elections, candidates have been responsible for any and all costs associated with the printing and handling of the Candidate's Statement. The Riverside County Registrar estimates the cost of the 2026 Candidate's Statement will be approximately $550. The filing of the candidate's statement for inclusion in the voter's pamphlet is optional, and there is no cost to any candidate for filing nomination papers, so the recommended deposit should not be construed as serving as a deterrent for anyone with limited financial resources from running for local elected office.

FINANCIAL DATA		
Cost Associated with this action:	40,000	
Current FY cost:	0	
Future FY cost:	40,000	
Is it covered in current year budget:	YES ☒	NO ☐
Budget adjustment needed:	YES ☐	NO ☒
If yes, year needed:	2026/27	
All previous contracts including dates, amounts and board approvals are attached or have been made available.		
FUNDING SOURCES		
Source of funds:	General Fund	
BID/Job#	0	
Current BID/Job balance	0	
Balance remaining if approved:	0	

FISCAL IMPACT & STRATEGIC PLAN IMPLEMENTATION

The total fiscal impact for this election has been estimated by the County Registrar's office. The estimate is $40,000 and has been included in the FY 2026-2027 budget.

ATTACHMENTS

Attachment 1_Resolution 2026-12 General Election 2026

RESOLUTION NO. 2026-12

A RESOLUTION OF THE BOARD OF DIRECTORS OF MISSION SPRINGS WATER DISTRICT DECLARING OFFICES TO BE FILLED AT THE NEXT GENERAL DISTRICT ELECTION AND ADOPTING REGULATIONS PERTAINING TO CANDIDATE'S STATEMENTS FOR DIRECTORS

WHEREAS, the offices of three (3) members of the Board of Directors of the Mission Springs Water District from Divisions 1 & 5 are to be filled at the time of the general district election on November 3, 2026; and

WHEREAS, § 13307 of the Elections Code of the State of California provides that the governing body of any local agency may adopt regulations pertaining to costs of the candidate's statements for a district election; and

WHEREAS, any candidate for the office of director may prepare a candidate's statement using the appropriate form provided by the County Registrar of Voters; and

WHEREAS, the district secretary must deliver to the Riverside County Registrar of Voters a notice of the elective offices of the District to be filled at the general district election and indicate the party responsible for costs related to the candidates' statements.

NOW, THEREFORE, BE IT RESOLVED by the Board of Directors of Mission Springs Water District that payment of the expenses connected with the publication of candidates' statements of qualifications shall be made by candidates directly to the County of Riverside.

ADOPTED this _____day of June 2026, by the following vote:

Ayes:
Noes:
Abstain:
Absent:

_____
Amber Duff
President of Mission Springs Water District
and its Board of Directors

ATTEST:

_____
Brian Macy
Secretary of Mission Springs Water District
and its Board of Directors

AGENDA STAFF REPORT

MEETING NAME: **REGULAR BOARD MEETINGS**

MEETING DATE(S): **JUNE 11 & 15, 2026**

FROM: **ERIC WECK, P.E., ENGINEERING MANAGER**

FOR: ACTION _X___ DIRECTION ____ INFORMATION ____

RESOLUTION 2026-14 TO APPROVE THE INITIAL STUDY AND ADOPT THE MITIGATED NEGATIVE DECLARATION FOR THE MISSION SPRINGS WATER DISTRICT GROUNDWATER QUALITY PROTECTION PROGRAM

STAFF RECOMMENDATION

It is recommended that Resolution 2026-14 be adopted approving the Final Initial Study/Mitigated Negative Declaration for the Groundwater Quality Protection Plan, the Mitigation Monitoring and Reporting Plan, and authorizing the General Manager to sign and file a Notice of Determination with the County of Riverside within five days of the Mission Springs Water District Board meeting.

SUMMARY

While coordinating efforts to complete the environmental analysis of the GQPP with the Army Corps of Engineers, MSWD contracted with Tom Dodson and Associates to prepare consolidated CEQA and NEPA studies to be used by the District and ACOE to complete and expedite their NEPA analysis. The area of the GQPP encompasses the areas A, G, H, I , J-2 K and the I-10 area near Indian Canyon Road. The GQPP studies are complete and have been drafted and advertised for public review for 30 days. The 30 day review period is complete and the environmental report is ready for board acceptance.

FINANCIAL DATA		
Cost Associated with this action:	$0	
Current FY cost:	$0	
Future FY cost:	$0	
Is it covered in current year budget:	YES ☒	NO ☐
Budget adjustment needed:	YES ☐	NO ☒
If yes, year needed:	N/A	
All previous contracts including dates, amounts and board approvals are attached or have been made available.		

FUNDING SOURCES	
Source of funds:	N/A
BID/Job#	N/A
Current BID/Job balance	$0
Balance remaining if approved:	$0

ANALYSIS

MSWD completed the Final Initial Study/Mitigated Negative Declaration (IS/MND) for the Groundwater Quality Protection Program, Assessment District 18. The issues of Aesthetics, Biological Resources, Cultural Resources, Geology and Soils, Hazards and Hazardous Materials, Hydrology and Water Quality, Noise, Population and Housing, Public Services, Transportation, Tribal Cultural Resources, Utilities and Service Systems, and Wildfire. During the 30 day public review period for the Draft IS/MNs, 2 comments letters were received (Caltrans and CDFW), and responses to these comments can be found in the Final IS/MND.

FISCAL IMPACT & STRATEGIC PLAN IMPLEMENTATION

The project's infrastructure will add $15,758.00 to the District's depreciable assets. This action is consistent with Strategic Plan Smart Goal 2.1, Ensure excellence in regulatory compliance by delivering services in accordance with standards set by regulatory agencies.

ATTACHMENTS

Attachment ‘A’ – Resolution 2026-14, GQPP Appendices 1 through 6, GQPP Initial Study, GQPP Negative Declaration, GQPP Notice of Determination

RESOLUTION NO. 2026-14

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE MISSION SPRINGS WATER DISTRICT APPROVING THE INITIAL STUDY AND ADOPTING A MITIGATED NEGATIVE DECLARATION FOR THE GROUNDWATER QUALITY PROTECTION PROGRAM SEPTIC TO SEWER PROJECT SCH #2026040663

WHEREAS, the California Environmental Quality Act (CEQA) of 1972, as amended, requires that prior to approval of any project, the Lead Agency shall consider the potential impacts and effects of said project, and identify mitigation measures necessary to reduce or eliminate potential significant impacts of the project on the environment; and

WHEREAS, the Mission Springs Water District is the Lead Agency for the Mitigated Negative Declaration (MND) and has prepared an Initial Study (IS) for the Groundwater Quality Protection Program in accordance with CEQA and its implementing guidelines; and

WHEREAS, the Mission Springs Water District issued a Notice of Availability of a MND which assessed the project's potential environmental impact(s). Said notice was distributed to the State Clearing House and ten other local agencies and interested parties. The notice stated that the MND would be available for public review and comment from April 14 to May 14, 2026. Further, the Notice of Completion was distributed to the state to notice the above review period; and

WHEREAS, the MND determined that the potential adverse environmental impacts are either non-significant without mitigation or can be reduced to a level of insignificance with mitigation, including the following issues that required mitigation to reduce impacts to a level of less than significant: Aesthetics, Biological Resources, Cultural Resources, Geology and Soils, Hazards and Hazardous Materials, Hydrology and Water Quality, Noise, Population and Housing, Public Services, Transportation, Tribal Cultural Resources, Utilities and Service Systems, and Wildfire, with the remaining impacts remaining less than significant or no impact (Agricultural and Forestry Resources, Air Quality, Energy, Greenhouse Gas Emissions, Land Use and Planning, Mineral Resources, Population and Housing, and Recreation); and

WHEREAS, the Mission Springs Water District Board of finds that the revised Mitigation Measure (**MM**) **BIO-1** constitutes replacement of **MMs BIO-1, BIO-2,** and **BIO-3** with language that is equivalent or more effective in mitigation or avoiding potential significant effects and that it in itself will not cause any potentially significant effect on the environment pursuant to CEQA Section 15074.1; and

WHEREAS, the Mission Springs Water District Board of finds that the revised **MM BIO-4** constitutes replacement of **MM BIO-4** with language that is equivalent or more effective in mitigation or avoiding potential significant effects and that it in itself will not cause any potentially significant effect on the environment pursuant to CEQA Section 15074.1; and

WHEREAS, the Mission Springs Water District Board of Directors has received and has reviewed the MND, consisting of the Initial Study, all Responses to Comments, the Mitigation Monitoring and Reporting Program, and all other material in the administrative record; and

WHEREAS, pursuant to duly given public notice, the Mission Springs Water District Board of Directors has held a full and fair public meeting on June 15, 2026, concerning the Groundwater

Quality Protection Program and the MND and has considered all written and oral comments and testimony relating thereto and is fully advised thereon.

NOW, THEREFORE, BE IT RESOLVED, DETERMINED AND ORDERED by the Mission Springs Water District Board of Directors as follows:

Section 1. A full and fair public meeting having been held on the MND prepared in connection with the Groundwater Quality Protection Program Septic to Sewer Project, as stated in the recitals herein, the Mission Springs Water District Board of Directors hereby approves and adopts the MND and the Mitigation Monitoring and Reporting Program.

Section 2. The Mission Springs Water District hereby authorizes and directs the: (1) filing and posting of a Notice of Determination (NOD) as required by Section 21152 of the Public Resources Code, and that filing required pursuant to Section 21089 (b) of the Public Resources Code by the Director of Operations with the Riverside County Clerk and the State Clearinghouse, Governor's Office of Planning and Research; and (2) Payment of the NOD and California Department of Fish and Game filing fees.

Section 3. The Mission Springs Water District hereby adopts the mitigation measures recommended as conditions of project approval as presented in the Mitigation Monitoring and Reporting Program, and the Mitigation Monitoring and Reporting Program prepared for the purpose of monitoring the mitigation measures which have been adopted or made a condition of project approval as described in Section 1 of this Resolution and all as more fully described in the Mitigation Monitoring and Reporting Program.

Section 4. The Mission Springs Water District hereby finds the replacement of **MMs BIO-1, BIO-2, BIO-3, and BIO-4** with revised **MMs BIO-1 and BIO-4** constitutes replacement of mitigation measures that are equivalent or more effective in avoiding potential significant effects, and that it in themselves will not cause any potentially significant effect on the environment pursuant to CEQA Section 15074.1.

Section 4. This Resolution shall take effect upon adoption by the Mission Springs Water District Board of Directors.

ADOPTED this 15th day of June, 2026, by the following vote:

Ayes:
Noes:
Abstain:
Absent:

_____

Amber Duff
President of Mission Springs Water District
and its Board of Directors

ATTEST:

_____
Brian Macy, P.E.
Secretary of Mission Springs Water District
and its Board of Directors

CERTIFICATION OF ADOPTION

STATE OF CALIFORNIA)
)
COUNTY OF RIVERSIDE)

I, Brian Macy, Secretary of the Board of Directors of Mission Springs Water District, certify that the foregoing is a full, true and correct copy of Resolution No. **2026-14** which was adopted by the Board of Directors of said District at its regular meeting held June 15, 2026.

It has not been amended or repealed.

Dated: June 15, 2026

_____
Brian Macy, P.E.
Secretary of Mission Springs Water District
and its Board of Directors

APPENDIX 1

TECHNICAL MEMORANDUM

DATE: November 17, 2025
TO: Kaitlyn Dodson-Hamilton, Tom Dodson & Associates
FROM: Haseeb Qureshi, Ali Dadabhoy, Urban Crossroads,
JOB NO: Inc. 16694-03 AQ & GHG Assessment

SUBJECT: MISSION SPRINGS-306 AIR QUALITY AND GREENHOUSE GAS ASSESSMENT

Urban Crossroads, Inc. is pleased to provide the following Air Quality and Greenhouse Gas Assessment for the Mission Springs-306 Project (Project), which is located in southern California within the northwestern portion of the Coachella Valley.

PROJECT OVERVIEW

The Mission Springs Water District (MSWD), as the Lead Agency pursuant to California Environmental Quality Act (CEQA), is proposing to install approximately 146,200 linear feet (LF) of sewer lines within roadways and existing rights-of-way within Areas A, D-3, G, H, I, J-2, K, and along the I-10 corridor to eliminate septic tanks that threaten contamination of potable groundwater supplies by expanding MSWD's wastewater collection system. The MSWD area and associated brief description is provided in Table 1.

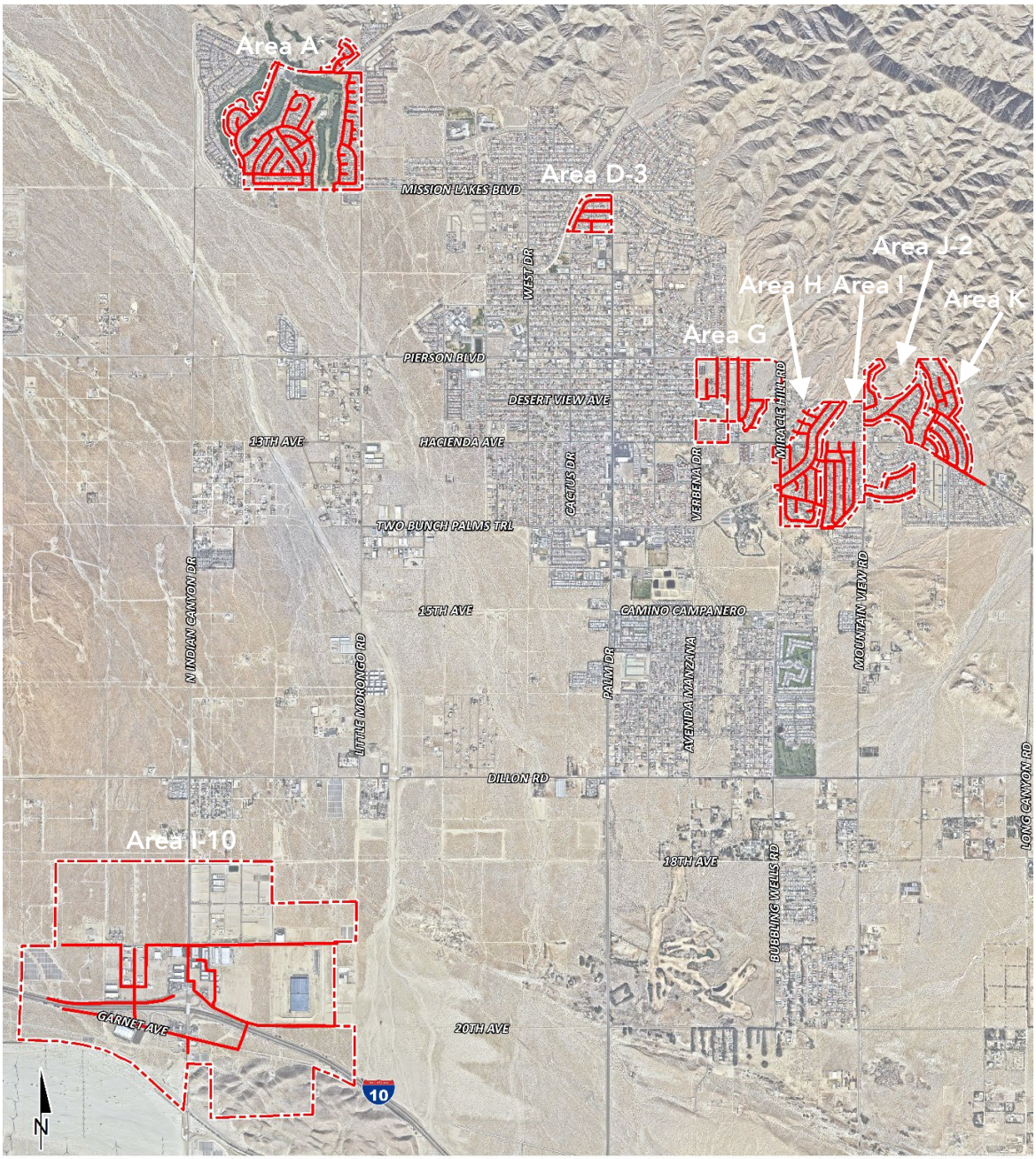
TABLE 1: PROJECT AREA DESCRIPTION

Area	Description
Area A	Sewer mains within residential roadways including Augusta Ave, Oakmont Blvd, Inglewood Ave, and surrounding courts/streets. Located within the City of Desert Hot Springs and Riverside County.
Area D-3	Sewer mains along Cactus Dr, 12th St, San Juan Dr, and San Marcus Rd. Located within the City of Desert Hot Springs
Area G	Sewer mains along Verbena Dr, Ambrosio Dr, Pomelo Dr, Foxdale Dr, Tamar Dr, and other nearby local streets. Located within the City of Desert Hot Springs.
Area H	Sewer mains along Tunitas Rd, Suerte Way, Oro Loma St, Ortega Dr, and connecting residential streets. Located within the City of Desert Hot Springs.
Area I	Sewer mains along Monterico Rd, Desert View Ave, Arena Blanca Rd, Alameda Rd, and other adjacent roadways. Located within the City of Desert Hot Springs.
Area J-2	Sewer mains along Mountain View Rd, Highland Ave, Skyline Dr, Calle Amapola, and multiple surrounding neighborhood streets. Located within the City of Desert Hot Springs.
Area K	Sewer mains along Juniper Dr, Fernwood Dr, Elm Ave, Deodar Ave, Catalpa Ave, and other nearby local roads. Located within the City of Desert Hot Springs.
Area I-10 Corridor	Sewer mains along Garnet Ave, Indian Canyon Dr, 20th Ave, 19th Ave, Orr Way, McLane St, Ruppert St, and Newhall St. Located within the Cities of Desert Hot Springs and Palm Springs.

SUMMARY OF FINDINGS

Results of the assessment indicate that the Project would result in a less than significant with respect to air quality and greenhouse gases (GHGs).

EXHIBIT 1: LOCATION PLAN



PROJECT AIR QUALITY IMPACTS

AIR QUALITY SETTING

South Sea Air Basin

The Project site is located within Salton Sea Air Basin (SSAB) within the jurisdiction of the SCAQMD. The SSAB (also referred to herein as "the Basin") is aligned in a north-west-southwest orientation stretching from Banning Pass to the Mexican border. The regional climate, as well as the temperature, wind, humidity, precipitation, and amount of sunshine significantly influence the air quality in the Basin.

The climate of the Coachella Valley is a continental, desert-type climate, with hot summers, mild winters, and very little annual rainfall. Precipitation is less than six inches annually and occurs mostly in the winter months from active frontal systems and in the late summer months from thunderstorms. Almost all of the annual rainfall comes from the fringes of mid-latitude storms from late November to early April with summers often being completely dry. Temperatures exceed 100 degrees Fahrenheit (°F), on the average, for four months each year, with daily highs near 110 °F during July and August. Summer nights are cooler with minimum temperatures in the mid-70s. During the winter season, daytime highs are quite mild, but the dry air is conducive to nocturnal radiational cooling, with early morning lows around 40 °F.

The Coachella Valley and adjacent areas are exposed to frequent gusty winds. The flat terrain of the valley and strong temperature differentials, created by intense solar heating, produce moderate winds and deep thermal convection. Wind speeds exceeding 31 miles per hour (mph) occur most frequently in April and May. On an annual basis, strong winds (greater than 31 mph) are observed 0.6 percent of the time and speeds of less than 6.8 mph account for more than one-half of the observed winds. Prevailing winds are from the northwest through southwest, with secondary flows from the southeast. The strongest and most persistent winds typically occur immediately to the east of Banning Pass, which is noted as a wind power generation resource area. Aside from this locale, the wind conditions in the remainder of the Coachella Valley are geographically distinct. Stronger winds tend to occur closer to the foothills. Less frequently, widespread gusty winds occur over all areas of the Valley.

Portions of the SSAB experience surface inversions almost every day of the year. Inversions in the SSAB are attributed to strong surface heating, but are usually broken, allowing pollutants to disperse more easily. Weak surface inversions are caused by cooling of air in contact with the cold surface of the earth at night. In the valleys and low-lying areas, this condition is intensified by the addition of cold air flowing downslope from the hills and pooling on the valley floor. In addition, inversions in the SSAB caused by the presence of the Pacific high-pressure cell can cause the air mass aloft to sink. As the air descends, compressional heating warms the air to a temperature higher than the air below. This subsidence inversion can act as a nearly impenetrable lid to the vertical mixing of pollutants. These inversions can persist for one or more days, causing air stagnation and the buildup of pollutants. Subsidence inversions are common from November through June and are relatively absent from July through October.

Within the Project area, there is a natural sand migration process, called "blowsand," that has direct and indirect effects on air quality. Blowsand produces particulate matter (PM_{10}) in two ways: (1) by direct particle erosion and fragmentation as natural PM_{10}, and (2) by secondary effects, as sand deposits on road surfaces.

Also, where water has already receded around the Salton Sea, the surface areas contain a salty mix of sediments that can change from a hardened salt crust to a fluffy soft layer of dust depending upon the season. Exposed sediments could elevate PM_{10} levels throughout the region. Almost 120,000 acres of Salton Sea lakebed could be exposed as inflows to the Sea decrease in future years. Local communities may be affected by 60,000 potentially dust-blowing acres, which will cause PM_{10} levels to rise.

Criteria Pollutants

Both the U.S. Environmental Protection Agency (EPA) and the California Air Resources Board (CARB) have established ambient air quality standards for common pollutants. These ambient air quality standards are levels of contaminants representing safe levels that avoid specific adverse health effects associated with each pollutant. The ambient air quality standards cover what are called "criteria" pollutants because the health and other effects of each pollutant are described in criteria documents. The six criteria pollutants are ozone (O_3) (precursor emissions include NOx and reactive organic gases (ROG), CO, particulate matter (PM), nitrogen dioxide (NO_2), sulfur dioxide (SO_2), and lead. Areas that meet ambient air quality standards are classified as attainment areas, while areas that do not meet these standards are classified as nonattainment areas. The Riverside County portion of the SSAB is designated as a nonattainment area for the federal O_3 and $PM_{2.5}$ standards and is also a nonattainment area for the state standards for O_3, PM_{10}, and $PM_{2.5}$.

REGULATORY BACKGROUND

Federal Regulations

The United States Environmental Protection Agency (EPA) is responsible for setting and enforcing the national ambient air quality standards (NAAQS) for ozone (O_3), carbon monoxide (CO), nitrogen oxides (NO_X), sulfur dioxide (SO_2), particulate matter 10 microns in diameter or less (PM_{10}), and lead (Pb) (1). The EPA has jurisdiction over emissions sources that are under the authority of the federal government including aircraft, locomotives, and emissions sources outside state waters (Outer Continental Shelf). The EPA also establishes emission standards for vehicles sold in states other than California. Automobiles sold in California must meet the stricter emission requirements of CARB.

The Federal Clean Air Act (CAA) was first enacted in 1955 and has been amended numerous times in subsequent years (1963, 1965, 1967, 1970, 1977, and 1990). The CAA establishes the federal air quality standards, the NAAQS, and specifies future dates for achieving compliance (2). The CAA also mandates that each state submit and implement state implementation plans (SIPs) for local areas not meeting these standards. These plans must include pollution control measures that demonstrate how the standards will be met.

The 1990 amendments to the CAA that identify specific emission reduction goals for areas not meeting the NAAQS require a demonstration of reasonable further progress toward attainment and incorporate additional sanctions for failure to attain or to meet interim milestones. The sections of the CAA most directly applicable to the development of the Project site include Title I (Non-Attainment Provisions) and Title II (Mobile Source Provisions) (3) (4). Title I provisions were established with the goal of attaining the NAAQS for the following criteria pollutants O_3, NO_2, SO_2, PM_{10}, CO, particulate matter 2.5 microns in diameter or less ($PM_{2.5}$), and Pb. The NAAQS were amended in July 1997 to include an additional standard for O_3 and to adopt a NAAQS for $PM_{2.5}$.

Mobile source emissions are regulated in accordance with Title II provisions. These provisions require the use of cleaner burning gasoline and other cleaner burning fuels such as methanol and natural gas. Automobile manufacturers are also required to reduce tailpipe emissions of hydrocarbons and NO_X. NO_X is a collective term that includes all forms of NO_X which are emitted as byproducts of the combustion process.

California Regulations

CARB

The CARB, which became part of the California EPA (CalEPA) in 1991, is responsible for ensuring implementation of the California Clean Air Act (AB 2595), responding to the federal CAA, and for regulating emissions from consumer products and motor vehicles. AB 2595 mandates achievement of the maximum degree of emissions reductions possible from vehicular and other mobile sources in order to attain the state ambient air quality standards by the earliest practical date. The CARB established the California ambient air quality standards (CAAQS) for all pollutants for which the federal government has NAAQS and, in addition, establishes standards for SO_4, visibility, hydrogen sulfide (H_2S), and vinyl chloride (C_2H_3Cl). However, at this time, H_2S and C_2H_3Cl are not measured at any monitoring stations in the MDAB because they are not considered to be a regional air quality problem. Generally, the CAAQS are more stringent than the NAAQS (5) (6).

Local air quality management districts, such as the SCAQMD, regulate air emissions from stationary sources such as commercial and industrial facilities. All air pollution control districts have been formally designated as attainment or non-attainment for each CAAQS.

Serious non-attainment areas are required to prepare Air Quality Management Plans (AQMP) that include specified emission reduction strategies in an effort to meet clean air goals. These plans are required to include:

- Application of Best Available Retrofit Control Technology to existing sources;
- Developing control programs for area sources (e.g., architectural coatings and solvents) and indirect sources (e.g., motor vehicle use generated by residential and commercial development);
- A District permitting system designed to allow no net increase in emissions from any new or modified permitted sources of emissions;
- Implementing reasonably available transportation control measures and assuring a substantial reduction in growth rate of vehicle trips and miles traveled;
- Significant use of low emissions vehicles by fleet operators;
- Sufficient control strategies to achieve a 5% or more annual reduction in emissions or 15% or more in a period of three years for reactive organic compounds(ROG)/VOC, NO_X, CO and PM_{10}. However, air basins may use an alternative emission reduction strategy that achieves a reduction of less than 5% per year under certain circumstances.

AQMP

Currently, the NAAQS and CAAQS are exceeded in most parts of the SSAB. In response, the SCAQMD has adopted a series of AQMP to meet the state and federal ambient air quality standards (7). AQMPs are updated regularly to ensure an effective reduction in emissions, accommodate growth, and to minimize any negative fiscal impacts of air pollution control on the economy.

APPLICABLE REGULATORY REQUIREMENTS

SCAQMD Rules that are currently applicable during construction activity for this Project include but are not limited to Rule 403 (Fugitive Dust) and Rule 1113 (Architectural Coatings) (8) (9).

SCAQMD RULE 403

This rule is intended to reduce the amount of particulate matter entrained in the ambient air as a result of anthropogenic (human-made) fugitive dust sources by requiring actions to prevent and reduce fugitive dust emissions. Rule 403 applies to any activity or human-made condition capable of generating fugitive dust and requires best available control measures to be applied to earth moving and grading activities.

Any operation or activity that might cause the emission of any smoke, fly ash, dust, fumes, vapors, gases, or other forms of air pollution, which can cause damage to human health, vegetation, or other forms of property, or can cause excessive soiling on any other parcel, shall conform to the requirements of the SCAQMD (10).

SCAQMD RULE 1113

This rule serves to limit the volatile organic compounds (VOC) content of architectural coatings used on projects in the SCAQMD. This rule applies to any person who supplies, sells, offers for sale, or manufactures any architectural coating for use on projects (11).

METHODOLOGY

The California Air Pollution Control Officers Association (CAPCOA) in conjunction with other California air districts, including SCAQMD, released CalEEMod 2022 in May 2022. CalEEMod periodically releases updates, as such the latest version available at the time of this report has been utilized in this analysis. The purpose of this model is to calculate construction-source and operational-source criteria pollutant (VOCs, NO_X, SO_X, CO, PM_{10}, and $PM_{2.5}$) and GHG emissions from direct and indirect sources; and quantify applicable air quality and GHG reductions achieved from mitigation measures (12). Accordingly, the latest version of CalEEMod has been used for this Project to determine construction and operational air quality and GHG emissions.

STANDARDS OF SIGNIFICANCE

The criteria used to determine the significance of potential Project-related air quality impacts are taken from the California Environmental Quality Act Guidelines (*CEQA Guidelines*) (14 CCR §§15000, et seq.). Based on these thresholds, a project would result in a significant impact related to air quality if it would (13):

- Threshold 1: Conflict with or obstruct implementation of the applicable air quality plan.
- Threshold 2: Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in non-attainment under an applicable federal or state ambient air quality standard.
- Threshold 3: Expose sensitive receptors to substantial pollutant concentrations.
- Threshold 4: Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people.

AIR QUALITY REGIONAL EMISSIONS THRESHOLDS

The SCAQMD has developed regional significance thresholds for criteria pollutants, as summarized at Table 2 (14). The SCAQMD's CEQA Air Quality Significance Thresholds (March 2023) indicate that any projects in the SSAB with daily emissions that exceed any of the indicated thresholds should be considered as having an individually and cumulatively significant air quality impact.

TABLE 2: MAXIMUM REGIONAL DAILY EMISSIONS THRESHOLDS

Pollutant	Construction	Operations
NO_X	100 lbs/day	55 lbs/day
VOC	75 lbs/day	55 lbs/day
PM_{10}	150 lbs/day	150 lbs/day
$PM_{2.5}$	55 lbs/day	55 lbs/day
SO_X	150 lbs/day	150 lbs/day
CO	550 lbs/day	550 lbs/day
Pb	3 lbs/day	3 lbs/day

lbs/day = Pounds Per Day

LOCALIZED EMISSIONS SIGNIFICANCE THRESHOLDS

The analysis follows the methodology outlined the SCAQMD *Final Localized Significance Threshold* (LST) *Methodology* (LST Methodology). According to this methodology, the staff recommendation is to apply the LST mass rate lookup tables exclusively for projects that are less than or equal to five acres. The project specific thresholds used to assess localized air quality emission impacts, along with the rationale for their determination, are detailed in later in this memo.

CONSTRUCTION ACTIVITIES

Construction activities associated with the Project would result in emissions of VOCs, NO_X, SO_X, CO, PM_{10}, and $PM_{2.5}$. Construction related emissions are expected from the following construction activities:

- Pipeline Installation
- Septic Tanks Abatements
- Linear, Paving

CONSTRUCTION-RELATED DUST EMISSIONS

Dust is typically a major concern during demolition and grading activities. Because such emissions are not amenable to collection and discharge through a controlled source, they are called "fugitive emissions." Fugitive dust emissions rates vary as a function of many parameters (soil silt, soil moisture, wind speed, area disturbed, number of vehicles, depth of disturbance or excavation, etc.). CalEEMod was utilized to calculate fugitive dust emissions resulting from these phases of activity.

Grading Activities

Grading quantities were conservatively assumed using provided pipeline measurements and as such, it is anticipated that approximately 16,716 CY of export is needed.

On-Road Trips

Construction generates on-road vehicle emissions from vehicle usage for workers and vendors commuting to and from the site. Information on the anticipated number of workers on-site was provided and modeled accordingly as shown on Table 3. It should be noted that the worker, vendor and hauling trips shown on Table 3 represents all proposed Areas of construction.

TABLE 3: TRIPS AND VMT

Construction Activity	Worker Trips Per Day	Vendor Trips Per Day	Hauling Trips Per Day
Pipeline Installation	26	2	11
Septic Tanks Abatements	20	2	2
Linear, Paving	3	0	0

CONSTRUCTION DURATION

For purposes of analysis, construction of the Project is expected to commence in March 2026 and would last through October 2042. The construction schedule utilized in the analysis represents a "worst-case" analysis scenario should construction occur any time after the respective dates since emission factors for construction decrease as time passes and the analysis year increases due to emission regulations becoming more stringent[1]. The duration of construction activity and associated equipment represents a reasonable approximation of the expected construction fleet as required per *CEQA Guidelines* (15).

TABLE 4: CONSTRUCTION ACTIVITIES

Construction Activity	Start Date	End Date	Days
Area A (60 Months)			
Pipeline Installation	4/1/2026	9/28/2028	652
Septic Tanks Abatements	9/29/2028	4/1/2031	653
Linear, Paving	4/1/2026	9/28/2028	652

[1] As shown in the CalEEMod User's Guide Version 2022, Appendix G "Table G-11. Statewide Average Annual Offroad Equipment Emission Factors" as the analysis year increases, emission factors for the same equipment pieces decrease due to the natural turnover of older equipment being replaced by newer less polluting equipment and new regulatory requirements.

Construction Activity	Start Date	End Date	Days
Area D-3 (6 Months)			
Pipeline Installation	4/2/2031	7/2/2031	66
Septic Tanks Abatements	7/3/2031	10/2/2031	66
Linear, Paving	4/2/2031	7/2/2031	66
Area G (12 Months)			
Pipeline Installation	10/3/2031	4/2/2032	131
Septic Tanks Abatements	4/5/2032	10/4/2032	131
Linear, Paving	10/3/2031	4/2/2032	131
Area H (22 Months)			
Pipeline Installation	10/5/2032	8/23/2033	231
Septic Tanks Abatements	8/24/2033	7/12/2034	231
Linear, Paving	10/5/2032	8/23/2033	231
Area I (20 Months)			
Pipeline Installation	7/13/2034	5/2/2035	210
Septic Tanks Abatements	5/4/2035	2/21/2036	210
Linear, Paving	7/13/2034	5/2/2035	210
Area J-2 (22 Months)			
Pipeline Installation	2/22/2036	1/9/2037	231
Septic Tanks Abatements	1/12/2037	11/30/2037	231
Linear, Paving	2/22/2036	1/9/2037	231
Area K (12 Months)			
Pipeline Installation	12/1/2037	6/1/2038	131
Septic Tanks Abatements	6/2/2038	12/1/2038	131
Linear, Paving	12/1/2037	6/1/2038	131
Area I-10 Corridor (48 Months)			
Pipeline Installation	12/2/2038	11/6/2040	504
Septic Tanks Abatements	11/7/2040	10/13/2042	504
Linear, Paving	12/2/2038	11/6/2040	504

CONSTRUCTION EQUIPMENT

Associated equipment was based on information provided by the Project Description. A detailed summary of construction equipment is provided on Table 5.

TABLE 5: CONSTRUCTION EQUIPMENT

Construction Activity	Equipment/Info	CalEEMod Equivalent	Quantity
Pipeline Installation	1 Pavement Cutter	Concrete/Industrial Saws	1
	2 Excavator	Excavators	2
	1 Backhoe/Compactor	Tractors/Loaders/Backho	1
	1 Loader	Tractors/Loaders/Backho	1
	1 Dump/Haul Truck	Modeled in Trips/VMT	1 trip
	1 Paver	Pavers	1
	1 Roller/Vibrator	Roller	1
	1 Water truck	Off-Highway Trucks	1
	2 Worker Utility Trucks	Modeled in Trips/VMT	2 trips
	1 Forman Truck	Modeled in Trips/VMT	1 trip
	Traffic Control Signage and Devices	Signal Boards	1
	10 Dump/delivery trucks (50 miles	Modeled in Trips/VMT	10 trips
	Employees (11 members per team)	Modeled in Trips/VMT	11 trips
	Bore/Drill Rigs[1]	Bore/Drill Rigs	1
Septic Tanks Abatements	1 Excavator	Excavators	1
	1 Backhoe	Tractors/Loaders/Backho	1
	1 Septic Truck (Operating 2 hours per	Off-Highway Trucks	1
	1 Water truck	Off-Highway Trucks	1
	2 Worker Utility Trucks	Modeled in Trips/VMT	2 trips
	1 Forman Truck	Modeled in Trips/VMT	1 trip
	Traffic Control Signage and Devices	Signal Boards	1
	2 Dump/delivery trucks (50 miles	Modeled in Trips/VMT	2 trips
	Employees (6-8 members per team)	Modeled in Trips/VMT	8 trips
Linear, Paving	Paver	Pavers	1

Note: The Bore/Drill Rigs is only for the Area I-10 Corridor construction scenario.

REGIONAL CONSTRUCTION EMISSIONS SUMMARY

The estimated maximum daily construction emissions without mitigation are summarized in Table 6. Under the assumed scenarios, emissions resulting from the Project construction at either site would not exceed thresholds established by the SCAQMD for emissions of any criteria pollutant. Project construction-source emissions impacts would therefore be less-than-significant. Detailed construction model outputs are presented in Appendix 1.

TABLE 6: OVERALL REGIONAL CONSTRUCTION EMISSIONS SUMMARY

Year	Emissions (lbs/day)					
	VOC	NO_X	CO	SO_2	PM_{10}	$PM_{2.5}$
Summer						
2026	1.58	13.65	18.56	0.04	1.36	0.66
2027	1.54	13.20	18.39	0.04	1.32	0.63
2028	1.49	12.69	18.20	0.04	1.28	0.59
2029	0.80	4.75	8.08	0.02	0.51	0.22
2030	0.77	4.57	7.97	0.02	0.50	0.22
2031	2.10	16.01	25.52	0.07	1.70	0.74
2032	1.31	11.34	17.53	0.04	1.19	0.51
2033	1.28	11.09	17.40	0.04	1.16	0.49
2034	1.98	14.80	24.90	0.07	1.62	0.66
2035	1.22	10.66	17.17	0.04	1.12	0.45
2036	1.20	10.40	17.09	0.04	1.10	0.43
2037	0.69	3.52	7.45	0.02	0.45	0.17
2038	1.16	10.03	16.99	0.04	1.08	0.40
2039	1.23	10.92	19.33	0.05	1.09	0.40
2040	1.22	10.80	19.28	0.05	1.08	0.40
2041	0.66	3.14	7.33	0.02	0.44	0.16
2042	0.66	3.11	7.31	0.02	0.44	0.16
Winter						
2026	1.56	13.79	17.47	0.04	1.36	0.66
2027	1.51	13.34	17.38	0.04	1.32	0.63
2028	1.46	12.82	17.24	0.04	1.28	0.59
2029	0.78	4.78	7.46	0.02	0.51	0.22
2030	0.76	4.60	7.38	0.02	0.50	0.22
2031	2.82	20.58	31.52	0.09	2.20	0.95
2032	2.59	22.93	33.61	0.09	2.37	1.02
2033	1.26	11.22	16.72	0.04	1.16	0.49
2034	1.96	14.96	23.81	0.07	1.62	0.66
2035	1.21	10.76	16.56	0.04	1.12	0.45
2036	1.88	14.20	23.59	0.07	1.56	0.60
2037	2.33	20.53	32.92	0.09	2.16	0.82
2038	2.39	21.35	35.29	0.09	2.17	0.81
2039	1.21	11.02	18.79	0.05	1.09	0.40
2040	1.20	10.92	18.76	0.05	1.08	0.40
2041	0.66	3.17	6.98	0.02	0.44	0.16
2042	0.65	3.13	6.96	0.02	0.44	0.16
Maximum Daily Emissions	2.82	22.93	35.29	0.09	2.37	1.02
SCAQMD Regional Threshold	75	100	550	150	150	55
Threshold Exceeded?	NO	NO	NO	NO	NO	NO

REGIONAL OPERATIONAL EMISSIONS SUMMARY

Operational activities associated with Projects would result in emissions of CO, VOCs, NOX, SOX, PM10, and PM2.5. Operational related emissions are from the following primary sources: area source emissions, energy source emissions, and mobile source emissions.

The proposed Project will install approximately 146,200 linear feet (LF) of sewer lines within roadways and existing rights-of-way within Areas A, D-3, G, H, I, J-2, K, and along the I-10 corridor to eliminate septic tanks that threaten contamination of potable groundwater supplies by expanding MSWD's wastewater collection system, which does not include any of the primary sources discussed previously. Therefore, there are no quantifiable operational emissions associated with the proposed Project and no further analysis is required.

LOCALIZED AIR QUALITY IMPACTS

BACKGROUND ON LST DEVELOPMENT

The SCAQMD has established that impacts to air quality are significant if there is a potential to contribute or cause localized exceedances of the federal and/or state ambient air quality standards (NAAQS/CAAQS). Collectively, these are referred to as Localized Significance Thresholds (LSTs).

The SCAQMD established LSTs in response to the SCAQMD Governing Board's Environmental Justice Initiative I-4[2]. LSTs represent the maximum emissions from a project that would not cause or contribute to an exceedance of the most stringent applicable federal or state ambient air quality standard at the nearest residence or sensitive receptor. The SCAQMD states that lead agencies can use the LSTs as another indicator of significance in its air quality impact analyses.

LSTs were developed in response to environmental justice and health concerns raised by the public regarding exposure of individuals to criteria pollutants in local communities. To address the issue of localized significance, the SCAQMD adopted LSTs that show whether a project would cause or contribute to localized air quality impacts and thereby cause or contribute to potential localized adverse health effects. The analysis makes use of methodology included in the *LST Methodology* (16).

EMISSIONS CONSIDERED

Based on SCAQMD's *LST Methodology*, emissions for concern during construction activities are on-site NO_X, CO, $PM_{2.5}$, and PM_{10}. The *LST Methodology* clearly states that "off-site mobile emissions from the Project should not be included in the emissions compared to LSTs (17)." As such, for purposes of the construction LST analysis, only emissions included in the CalEEMod "on-site" emissions outputs were considered.

[2] The purpose of SCAQMD's Environmental Justice program is to ensure that everyone has the right to equal protection from air pollution and fair access to the decision-making process that works to improve the quality of air within their communities. Further, the SCAQMD defines Environmental Justice as "...equitable environmental policymaking and enforcement to protect the health of all residents, regardless of age, culture, ethnicity, gender, race, socioeconomic status, or geographic location, from the health effects of air pollution."

Maximum Daily Disturbed-Acreage

The "acres disturbed" for analytical purposes are based on specific equipment type for each subcategory of construction activity and the estimated maximum area a given piece of equipment can pass over in an 8-hour workday (as shown on Table 7). The equipment-specific grading rates are summarized in the SCAQMD's *Fact Sheet for Applying CalEEMod to Localized Significance Thresholds* and CalEEMod User's Guide *Appendix A: Calculation Details for CalEEMod* (18) (19). The disturbed area per day is representative of a piece of equipment making multiple passes over the same land area. In other words, one Rubber Tired Dozer can make multiple passes over the same land area totaling 0.5 acres in a given 8-hour day.

Based on information provided, it was assumed that 1 acre would be disturbed per day for all Project Categories. This is conservative as the construction impacts are assessed against a smaller acreage threshold which would represent a more conservative assessment.

Receptors

As previously stated, LSTs represent the maximum emissions from a project that would not cause or contribute to an exceedance of the most stringent applicable NAAQS and CAAQS at the nearest residence or sensitive receptor. Receptor locations are off-site locations where individuals may be exposed to emissions from Project activities.

Some people are especially sensitive to air pollution and are given special consideration when evaluating air quality impacts from projects. These groups of people include children, the elderly, and individuals with pre-existing respiratory or cardiovascular illness. Structures that house these persons or places where they gather are defined as "sensitive receptors". These structures typically include uses such as residences, hotels, and hospitals where an individual can remain for 24 hours. Consistent with the LST Methodology, the nearest land use where an individual could remain for 24 hours to the Project site has been used to determine construction and operational air quality impacts for emissions of PM_{10} and $PM_{2.5}$, since PM_{10} and $PM_{2.5}$ thresholds are based on a 24-hour averaging time.

LSTs apply, even for non-sensitive land uses, consistent with *LST Methodology* and SCAQMD guidance. Per the *LST Methodology*, commercial and industrial facilities are not included in the definition of sensitive receptor because employees and patrons do not typically remain onsite for a full 24 hours but are typically onsite for 8 hours or less. However, *LST Methodology* explicitly states that "*LSTs based on shorter averaging periods, such as the NO_2 and CO LSTs, could also be applied to receptors such as industrial or commercial facilities since it is reasonable to assume that a worker at these sites could be present for periods of one to eight hours* (17)." Therefore, any adjacent land use where an individual could remain for 1 or 8-hours, that is located at a closer distance to the Project site than the receptor used for PM_{10} and $PM_{2.5}$ analysis, must be considered to determine construction and operational LST air impacts for emissions of NO_2 and CO since these pollutants have an averaging time of 1 and 8-hours.

Project-related Receptors

The SCAQMD recommends that the nearest sensitive receptor be considered when determining the Project's potential to cause an individual and cumulatively significant impact. As a conservative measure it is assumed that the nearest sensitive receptor could potentially be located immediately

adjacent to construction activities. It should be noted that the LST Methodology also explicitly states that "It is possible that a project may have receptors closer than 25 meters. Projects with boundaries located closer than 25 meters to the nearest receptor should use the LSTs for receptors located at 25 meters (20)." Consistent with the SCAQMD's LST Methodology, a 25-meter receptor distance is utilized in this analysis and provide for a conservative i.e. "health protective" standard of care.

LOCALIZED THRESHOLDS FOR CONSTRUCTION ACTIVITY

Since the total acreage disturbed is less than five acres per day for construction activities, the SCAQMD's screening look-up tables are utilized in determining impacts. It should be noted that since the look-up tables identifies thresholds at only 1 acre, 2 acres, and 5 acres, linear regression has been utilized to determine localized significance thresholds. Consistent with SCAQMD guidance, the thresholds presented in Table 7 were calculated by interpolating the threshold values for the Project's disturbed acreage.

TABLE 7: MAXIMUM DAILY LOCALIZED CONSTRUCTION EMISSIONS THRESHOLDS

Construction Activity	Pollutant			
	NO_X	CO	PM_{10}	$PM_{2.5}$
Pipeline Installation Septic Tanks Abatements Linear, Paving	132 lbs/day	878 lbs/day	4 lbs/day	3 lbs/day

Source: Localized Thresholds presented in this table are based on the SCAQMD Final LST Methodology

CONSTRUCTION-SOURCE LOCALIZED EMISSIONS

Emissions during the peak construction activity will not exceed the SCAQMD's localized significance thresholds at the maximally exposed receptor location, as illustrated in Table 8. All other modeled locations in the study area would experience lower concentrations, resulting in a reduced impact. As such, the Project's localized impacts during construction activity would be less than significant. Outputs from the model runs for construction LSTs are provided in Appendix 1.

TABLE 8: CONSTRUCTION LOCALIZED SIGNIFICANCE SUMMARY

Construction Activity	Year	NO_X	CO	PM_{10}	$PM_{2.5}$
Area A					
Pipeline Installation	2026	10.15	13.70	0.36	0.33
	2027	9.83	13.70	0.33	0.30
	2028	9.44	13.68	0.29	0.27
	Maximum Daily Emissions	10.15	13.70	0.36	0.33
	SCAQMD Regional Thresholds	132	878	4	3
	Threshold Exceeded?	NO	NO	NO	NO

Construction Activity	Year	NO_X	CO	PM_{10}	$PM_{2.5}$
Septic Tanks Abatements	2028	4.57	6.62	0.15	0.13
	2029	4.33	6.58	0.13	0.12
	2030	4.17	6.55	0.13	0.12
	2031	3.99	6.54	0.12	0.11
Maximum Daily Emissions		4.57	6.62	0.15	0.13
SCAQMD Regional Thresholds		132	878	4	3
Threshold Exceeded?		NO	NO	NO	NO
Paving	2026	1.52	2.06	0.08	0.07
	2027	1.47	2.06	0.07	0.07
	2028	1.40	2.06	0.06	0.06
Maximum Daily Emissions		1.52	2.06	0.08	0.07
SCAQMD Regional Thresholds		132	878	4	3
Threshold Exceeded?		NO	NO	NO	NO
Area D-3					
Pipeline Installation	2031	8.67	13.57	0.23	0.21
Maximum Daily Emissions		8.67	13.57	0.23	0.21
SCAQMD Regional Thresholds		132	878	4	3
Threshold Exceeded?		NO	NO	NO	NO
Septic Tanks Abatements	2031	3.99	6.54	0.12	0.11
Maximum Daily Emissions		3.99	6.54	0.12	0.11
SCAQMD Regional Thresholds		132	878	4	3
Threshold Exceeded?		NO	NO	NO	NO
Paving	2031	1.25	2.06	0.05	0.05
Maximum Daily Emissions		1.25	2.06	0.05	0.05
SCAQMD Regional Thresholds		132	878	4	3
Threshold Exceeded?		NO	NO	NO	NO
Area G					
Pipeline Installation	2031	8.67	13.57	0.23	0.21
	2032	8.46	13.55	0.21	0.20
Maximum Daily Emissions		8.67	13.57	0.23	0.21
SCAQMD Regional Thresholds		132	878	4	3
Threshold Exceeded?		NO	NO	NO	NO
Septic Tanks Abatements	2032	3.83	6.54	0.11	0.11
Maximum Daily Emissions		3.83	6.54	0.11	0.11
SCAQMD Regional Thresholds		132	878	4	3

Construction Activity	Year	NO_X	CO	PM_{10}	$PM_{2.5}$
	Threshold Exceeded?	NO	NO	NO	NO
Paving	2031	1.25	2.06	0.05	0.05
	2032	1.21	2.05	0.05	0.04
	Maximum Daily Emissions	1.25	2.06	0.05	0.05
	SCAQMD Regional Thresholds	132	878	4	3
	Threshold Exceeded?	NO	NO	NO	NO
Area H					
Pipeline Installation	2032	8.46	13.55	0.21	0.20
	2033	8.29	13.52	0.19	0.18
	Maximum Daily Emissions	8.46	13.55	0.21	0.20
	SCAQMD Regional Thresholds	132	878	4	3
	Threshold Exceeded?	NO	NO	NO	NO
Septic Tanks Abatements	2033	3.69	6.53	0.11	0.10
	2034	3.56	6.51	0.10	0.09
	Maximum Daily Emissions	3.69	6.53	0.11	0.10
	SCAQMD Regional Thresholds	132	878	4	3
	Threshold Exceeded?	NO	NO	NO	NO
Paving	2033	1.21	2.05	0.05	0.04
	2034	1.18	2.05	0.04	0.04
	Maximum Daily Emissions	1.21	2.05	0.05	0.04
	SCAQMD Regional Thresholds	132	878	4	3
	Threshold Exceeded?	NO	NO	NO	NO
Area I					
Pipeline Installation	2034	8.12	13.50	0.18	0.17
	2035	7.96	13.47	0.16	0.15
	Maximum Daily Emissions	8.12	13.50	0.18	0.17
	SCAQMD Regional Thresholds	132	878	4	3
	Threshold Exceeded?	NO	NO	NO	NO
Septic Tanks Abatements	2035	3.45	6.50	0.09	0.09
	2036	3.31	6.49	0.08	0.08
	Maximum Daily Emissions	3.45	6.50	0.09	0.09
	SCAQMD Regional Thresholds	132	878	4	3
	Threshold Exceeded?	NO	NO	NO	NO

Construction Activity	Year	NO_X	CO	PM_{10}	$PM_{2.5}$
Paving	2034	1.16	2.05	0.04	0.04
	2035	1.11	2.05	0.03	0.03
	Maximum Daily Emissions	1.16	2.05	0.04	0.04
	SCAQMD Regional Thresholds	132	878	4	3
	Threshold Exceeded?	NO	NO	NO	NO
Area J-2					
Pipeline Installation	2036	7.77	13.45	0.14	0.13
	2037	7.58	13.44	0.13	0.12
	Maximum Daily Emissions	7.77	13.45	0.14	0.13
	SCAQMD Regional Thresholds	132	878	4	3
	Threshold Exceeded?	NO	NO	NO	NO
Septic Tanks Abatements	2037	3.18	6.48	0.08	0.07
	Maximum Daily Emissions	3.18	6.48	0.08	0.07
	SCAQMD Regional Thresholds	132	878	4	3
	Threshold Exceeded?	NO	NO	NO	NO
Paving	2036	1.08	2.04	0.03	0.03
	2037	1.04	2.04	0.02	0.02
	Maximum Daily Emissions	1.08	2.04	0.03	0.03
	SCAQMD Regional Thresholds	132	878	4	3
	Threshold Exceeded?	NO	NO	NO	NO
Area J-2					
Pipeline Installation	2037	7.58	13.44	0.13	0.12
	2038	7.43	13.43	0.12	0.11
	Maximum Daily Emissions	7.58	13.44	0.13	0.12
	SCAQMD Regional Thresholds	132	878	4	3
	Threshold Exceeded?	NO	NO	NO	NO
Septic Tanks Abatements	2038	3.06	6.48	0.07	0.07
	Maximum Daily Emissions	3.06	6.48	0.07	0.07
	SCAQMD Regional Thresholds	132	878	4	3
	Threshold Exceeded?	NO	NO	NO	NO
Paving	2037	1.04	2.04	0.02	0.02
	2038	1.02	2.04	0.02	0.02
	Maximum Daily Emissions	1.04	2.04	0.02	0.02
	SCAQMD Regional Thresholds	132	878	4	3
	Threshold Exceeded?	NO	NO	NO	NO

Construction Activity	Year	NO_X	CO	PM_{10}	$PM_{2.5}$
Area I-10 Corridor					
Pipeline Installation	2038	8.49	15.83	0.13	0.12
	2039	8.34	15.81	0.13	0.12
	2040	8.25	15.81	0.12	0.11
	Maximum Daily Emissions	8.49	15.83	0.13	0.12
	SCAQMD Regional Thresholds	132	878	4	3
	Threshold Exceeded?	NO	NO	NO	NO
Septic Tanks Abatements	2040	2.86	6.46	0.07	0.06
	2041	2.81	6.46	0.06	0.06
	2042	2.77	6.46	0.06	0.06
	Maximum Daily Emissions	2.86	6.46	0.07	0.06
	SCAQMD Regional Thresholds	132	878	4	3
	Threshold Exceeded?	NO	NO	NO	NO
Paving	2038	1.02	2.04	0.02	0.02
	2039	1.00	2.04	0.02	0.02
	2040	0.99	2.04	0.02	0.02
	Maximum Daily Emissions	1.02	2.04	0.02	0.02
	SCAQMD Regional Thresholds	132	878	4	3
	Threshold Exceeded?	NO	NO	NO	NO

OPERATIONAL-SOURCE LOCALIZED EMISSIONS

According to SCAQMD localized significance threshold methodology, LSTs would apply to the operational phase of a proposed project if the project includes stationary sources or attracts mobile sources that may spend extended periods queuing and idling at the site (e.g., warehouse or transfer facilities). The Project would generate a nominal number of traffic trips in the context of on-going maintenance resulting in a negligible amount of new mobile source emissions. Therefore, the Project would not expose sensitive receptors to substantial pollutant concentrations and impacts would be less than significant.

AQMP

The Project site is located within the SSAB, which is characterized by relatively poor air quality. The SCAQMD has jurisdiction over an approximately 10,743 square-mile area consisting of the four-county Basin and the Los Angeles County and Riverside County portions of what use to be referred to as the Southeast Desert Air Basin. In these areas, the SCAQMD is principally responsible for air pollution control, and works directly with the SCAG, county transportation commissions, local governments, as well as state and federal agencies to reduce emissions from stationary, mobile, and indirect sources to meet state and federal ambient air quality standards. Currently, these state and federal air quality standards are exceeded in most parts of the SSAB. In response, the SCAQMD has

adopted a series of AQMPs to meet the state and federal ambient air quality standards. AQMPs are updated regularly in order to more effectively reduce emissions, accommodate growth, and to minimize any negative fiscal impacts of air pollution control on the economy.

In December 2022, the SCAQMD released the *Final 2022 AQMP* (*2022 AQMP*). The *2022 AQMP* continues to evaluate current integrated strategies and control measures to meet the NAAQS, as well as explore new and innovative methods to reach its goals. Some of these approaches include utilizing incentive programs, recognizing existing co-benefit programs from other sectors, and developing a strategy with fair-share reductions at the federal, state, and local levels (21). Similar to the 2016 AQMP, the *2022 AQMP* incorporates scientific and technological information and planning assumptions, including the *2020-2045 RTP/SCS*, a planning document that supports the integration of land use and transportation to help the region meet the federal CAA requirements (22). The Project's consistency with the AQMP will be determined using the *2022 AQMP* as discussed below.

It should be noted that although SCAG has released an updated 2024-2050 RTP, the 2022 AQMP is based on the 2020-2045 RTP. Criteria for determining consistency with the AQMP are defined in Chapter 12, Section 12.2 and Section 12.3 of the *1993 CEQA Handbook* (23). These indicators are discussed below:

CONSISTENCY CRITERION NO. 1

Potential to result in an increase in the frequency or severity of existing air quality violations or cause or contribute to new violations or delay the timely attainment of air quality standards or the interim emissions reductions specified in the AQMP.

The violations that Consistency Criterion No. 1 refer to are the CAAQS and NAAQS. CAAQS and NAAQS violations would occur if regional or localized significance thresholds were exceeded.

Construction Impacts – Consistency Criterion 1

As evaluated, the Project's regional and localized construction-source emissions would not exceed applicable regional significance threshold and LST thresholds. As such, a less than significant impact is expected.

Operational Impacts – Consistency Criterion 1

As evaluated, the Project's regional and localized operation-source emissions would not exceed applicable regional significance threshold and LST thresholds. As such, a less than significant impact is expected.

On the basis of the preceding discussion, the Project is determined to be consistent with the first criterion.

CONSISTENCY CRITERION NO. 2

Potential to exceed the assumptions in the AQMP based on the years of Project build-out phase.

The *2022 AQMP* demonstrates that the applicable ambient air quality standards can be achieved within the timeframes required under federal law. Growth projections from local general plans adopted by cities in the district are provided to the SCAG, which develops regional growth forecasts, which are then used to develop future air quality forecasts for the AQMP. Development consistent

with the growth projections in Mission Springs Water District is considered to be consistent with the AQMP.

Construction Impacts – Consistency Criterion 2

Peak day emissions generated by construction activities are largely independent of land use assignments, but rather are a function of development scope and maximum area of disturbance. Irrespective of the site's land use designation, development of the site to its maximum potential would likely occur, with disturbance of the entire site occurring during construction activities. As such, when considering that no emissions thresholds will be exceeded, a less than significant impact would result.

Operational Impacts – Consistency Criterion 2

Since the Project's proposed land uses are consistent with the Mission Springs Water District and as the Project's construction and operational-source air pollutant emissions would not exceed the regional or localized significance thresholds, the Project is determined to be consistent with the second criterion.

On the basis of the preceding discussion, the Project is determined to be consistent with the second criterion.

AQMP Consistency Conclusion

The Project would not result in or cause NAAQS or CAAQS violations. The Project proposes to 146,200 linear feet (LF) of sewer lines within roadways and existing rights-of-way within Areas A, D-3, G, H, I, J-2, K, and along the I-10 corridor to eliminate septic tanks that threaten contamination of potable groundwater supplies by expanding MSWD's wastewater collection system. The Project is therefore considered to be consistent with the AQMP.

Consistency Criterion No. 3

Potential Impact to Sensitive Receptors

The potential impact of Project-generated air pollutant emissions at sensitive receptors has also been considered. Results of the LST analysis indicate that the Project would not exceed the SCAQMD localized significance thresholds during construction. Therefore, sensitive receptors would not be exposed to substantial pollutant concentrations during Project construction.

Additionally, the Project would not exceed the SCAQMD localized significance thresholds during operational activity. Further Project traffic would not create or result in a CO "hotspot." Therefore, sensitive receptors would not be exposed to substantial pollutant concentrations as the result of Project operations.

Consistency Criterion No. 4

Odors

The potential for the Project to generate objectionable odors has also been considered. Land uses generally associated with odor complaints include:

- Agricultural uses (livestock and farming)
- Wastewater treatment plants

- Food processing plants
- Chemical plants
- Composting operations
- Refineries
- Landfills
- Dairies
- Fiberglass molding facilities

The Project would have potential land uses associated with emitting objectionable odors. Potential odor sources associated with the proposed Project may result from construction equipment exhaust and the application of asphalt and architectural coatings during construction activities. As shown in Table 6, construction would not result in significant emissions of SO_X. Further, the septic tank abatement would consist of rerouting plumbing to the new public sewer system, pumping and cleaning the tank of all liquid waste, sludge, and scum, with the tank residue disposed of at an approved facility. The tank is then filled with sand or slurry and covered up. The tank is left in place. The most significant potential for odor is during the pumping and cleaning of the tank, as the waste and accumulated gases (such as hydrogen sulfide) are exposed. Licensed professionals use specialized vacuum trucks and work efficiently to contain and remove the waste, minimizing the time the odor is present. Furthermore, construction would be temporary, and equipment would not be located in a single location throughout the duration of construction. Odorous hydrocarbons tend to dissipate quickly and would only affect receptors in the immediate vicinity, rather than a substantial number of people at any given time. Therefore, construction activities would not result in other emissions, such as odors, adversely affecting a substantial number of people, and impacts would be less than significant.

Operation of the project would not result in odor impacts because none of the project components include odor-generating components, as the sewer pipelines are located belowground, and are enclosed. The proposed Project would also be required to comply with SCAQMD Rule 402 to prevent occurrences of public nuisances. Thus, no odor emissions would occur and impacts would be less than significant. Therefore, odors associated with the proposed project construction and operations would be less than significant and no mitigation is required (24).

PROJECT GHG ANALYSIS

CLIMATE CHANGE SETTING

Global climate change (GCC) is the change in average meteorological conditions on the earth with respect to temperature, precipitation, and storms. The majority of scientists believe that the climate shift taking place since the Industrial Revolution is occurring at a quicker rate and magnitude than in the past. Scientific evidence suggests that GCC is the result of increased concentrations of GHGs in the earth's atmosphere, including carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O), and fluorinated gases. The majority of scientists believe that this increased rate of climate change is the result of GHGs resulting from human activity and industrialization over the past 200 years.

An individual project like the proposed Project evaluated in this memo cannot generate enough GHG emissions to affect a discernible change in global climate. However, the proposed Project may participate in the potential for GCC by its incremental contribution of GHGs combined with the cumulative increase of all other sources of GHGs, which when taken together constitute potential

influences on GCC. Because these changes may have serious environmental consequences, this memo will evaluate the potential for the proposed Project to have a significant effect upon the environment as a result of its potential contribution to the greenhouse effect.

GCC refers to the change in average meteorological conditions on the earth with respect to temperature, wind patterns, precipitation and storms. Global temperatures are regulated by naturally occurring atmospheric gases such as water vapor, CO_2, N_2O, CH_4, hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF_6). These particular gases are important due to their residence time (duration they stay) in the atmosphere, which ranges from 10 years to more than 100 years. These gases allow solar radiation into the earth's atmosphere, but prevent radiative heat from escaping, thus warming the earth's atmosphere. GCC can occur naturally as it has in the past with the previous ice ages.

Gases that trap heat in the atmosphere are often referred to as GHGs. GHGs are released into the atmosphere by both natural and anthropogenic activity. Without the natural GHG effect, the earth's average temperature would be approximately 61 degrees Fahrenheit (°F) cooler than it is currently. The cumulative accumulation of these gases in the earth's atmosphere is considered to be the cause for the observed increase in the earth's temperature.

For the purposes of this analysis, emissions of CO_2, CH_4, and N_2O were evaluated because these gases are the primary contributors to GCC from development projects. Although there are other substances such as fluorinated gases that also contribute to GCC, these fluorinated gases were not evaluated as their sources are not well-defined and do not contain accepted emissions factors or methodology to accurately calculate these gases.

REGULATORY SETTING

Executive Order S-3-05

Former California Governor Arnold Schwarzenegger announced on June 1, 2005, through Executive Order S-3-05, the following reduction targets for GHG emissions:

- By 2010, reduce GHG emissions to 2000 levels.
- By 2020, reduce GHG emissions to 1990 levels.
- By 2050, reduce GHG emissions to 80% below 1990 levels.

The 2050 reduction goal represents what some scientists believe is necessary to reach levels that will stabilize the climate. The 2020 goal was established to be a mid-term target. Because this is an executive order, the goals are not legally enforceable for local governments or the private sector.

Assembly Bill (AB) 32

The California State Legislature enacted AB 32, which requires that GHGs emitted in California be reduced to 1990 levels by the year 2020. "GHGs" as defined under AB 32 include CO_2, CH_4, N_2O, hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF_6). Since AB 32 was enacted, a seventh chemical, nitrogen trifluoride, has also been added to the list of GHGs. CARB is the state agency charged with monitoring and regulating sources of GHGs. Pursuant to AB 32, CARB adopted regulations to achieve the maximum technologically feasible and cost-effective GHG emission reductions. AB 32 states the following:

"Global warming poses a serious threat to the economic well-being, public health, natural resources, and the environment of California. The potential adverse impacts of global warming include the exacerbation of air quality problems, a reduction in the quality and supply of water to the state from the Sierra snowpack, a rise in sea levels resulting in the displacement of thousands of coastal businesses and residences, damage to marine ecosystems and the natural environment, and an increase in the incidences of infectious diseases, asthma, and other human health-related problems."

CARB approved the 1990 GHG emissions level of 427 million metric ton of CO_2 equivalent per year ($MMTCO_2e$) on December 6, 2007 (25). Therefore, emissions generated in California in 2020 are required to be equal to or less than 427 $MMTCO_2e$. Emissions in 2020 in a "business as usual" (BAU) scenario were estimated to be 596 $MMTCO_2e$, which do not account for reductions from AB 32 regulations (26). At that level, a 28.4% reduction was required to achieve the 427 $MMTCO_2e$ 1990 inventory. In October 2010, CARB prepared an updated BAU 2020 forecast to account for the recession and slower forecasted growth. The forecasted inventory without the benefits of adopted regulation is now estimated at 545 $MMTCO_2e$. Therefore, under the updated forecast, a 21.7% reduction from BAU is required to achieve 1990 levels (27).

Progress in Achieving AB 32 Targets and Remaining Reductions Required

The State has made steady progress in implementing AB 32 and achieving targets included in Executive Order S-3-05. The progress is shown in updated emission inventories prepared by CARB for 2000 through 2012 (28). The State has achieved the Executive Order S-3-05 target for 2010 of reducing GHG emissions to 2000 levels. As shown below, the 2010 emission inventory achieved this target.

- 1990: 427 $MMTCO_2e$ (AB 32 2020 target)
- 2000: 463 $MMTCO_2e$ (an average 8% reduction needed to achieve 1990 base)
- 2010: 450 $MMTCO_2e$ (an average 5% reduction needed to achieve 1990 base)

CARB has also made substantial progress in achieving its goal of achieving 1990 emissions levels by 2020. As described earlier in this section, CARB revised the 2020 BAU inventory forecast to account for new lower growth projections, which resulted in a new lower reduction from BAU to achieve the 1990 base. The previous reduction from 2020 BAU needed to achieve 1990 levels was 28.4% and the latest reduction from 2020 BAU is 21.7%.

- 2020: 545 $MMTCO_2e$ BAU (an average 21.7% reduction from BAU needed to achieve 1990 base)

Senate Bill (SB) 32

On September 8, 2016, Governor Jerry Brown signed the SB 32 and its companion bill, AB 197. SB 32 requires the state to reduce statewide GHG emissions to 40% below 1990 levels by 2030, a reduction target that was first introduced in Executive Order B-30-15. The new legislation builds upon the AB 32 goal of 1990 levels by 2020 and provides an intermediate goal to achieving S-3-05, which sets a statewide GHG reduction target of 80% below 1990 levels by 2050. AB 197 creates a legislative committee to oversee regulators to ensure that CARB not only responds to the Governor, but also the Legislature (29).

AB 197

A condition of approval for SB 32 was the passage of AB 197. AB 197 requires that CARB consider the social costs of GHG emissions and prioritize direct reductions in GHG emissions at mobile sources and large stationary sources. AB 197 also gives the California legislature more oversight over CARB through the addition of two legislatively appointed members to the CARB Board and the establishment a legislative committee to make recommendations about CARB programs to the legislature.

Executive Order B-55-18 and SB 100

Executive Order B-55-18 and SB 100. SB 100 and Executive Order B-55-18 were signed by Governor Brown on September 10, 2018. Under the existing RPS, 25% of retail sales are required to be from renewable sources by December 31, 2016, 33% by December 31, 2020, 40% by December 31, 2024, 45% by December 31, 2027, and 50% by December 31, 2030. SB 100 raises California's RPS requirement to 50% renewable resources target by December 31, 2026, and to achieve a 60% target by December 31, 2030. SB 100 also requires that retail sellers and local publicly owned electric utilities procure a minimum quantity of electricity products from eligible renewable energy resources so that the total kilowatt hours of those products sold to their retail end-use customers achieve 44% of retail sales by December 31, 2024, 52% by December 31, 2027, and 60% by December 31, 2030. In addition to targets under AB 32 and SB 32, Executive Order B-55-18 establishes a carbon neutrality goal for the state of California by 2045; and sets a goal to maintain net negative emissions thereafter. The Executive Order directs the California Natural Resources Agency (CNRA), California Environmental Protection Agency (CalEPA), the Department of Food and Agriculture (CDFA), and CARB to include sequestration targets in the Natural and Working Lands Climate Change Implementation Plan consistent with the carbon neutrality goal.

Title 24 California Code of Regulations (CCR)

California Code of Regulations (CCR) Title 24 Part 6: The California Energy Code was first adopted in 1978 in response to a legislative mandate to reduce California's energy consumption.

The standards are updated periodically to allow consideration and possible incorporation of new energy efficient technologies and methods. CCR, Title 24, Part 11: California Green Building Standards Code (CALGreen) is a comprehensive and uniform regulatory code for all residential, industrial, commercial, and school buildings that went in effect on August 1, 2009, and is administered by the California Building Standards Commission.

CALGreen is updated on a regular basis, with the most recent approved update consisting of the 2022 California Green Building Code Standards that became effective on January 1, 2023[3]. As construction of the Project is anticipated to be completed in 2042, the Project would be required to comply with the Title 24 standards in place at that time.

[3] The 2022 California Green Building Standard Code became effective on January 1, 2023, however; it has since been amended on July 1, 2024 with the Intervening Code Cycle Update which is reflected in this report. Additionally, it should be noted that CALGreen is currently being updated, with the most recent draft update consisting of the 2025 California Green Building Code Standards that will be effective on January 1, 2025. As construction of the Project is anticipated to be completed in 2042, it is presumed that the Project would be required to comply with the Title 24 standards in place at that time.

PROJECT GHG IMPACTS

STANDARDS OF SIGNIFICANCE

According to the CEQA Guidelines Appendix G thresholds, to determine whether impacts from GHG emissions are significant. Would the project:

- Threshold 1: Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment?
- Threshold 2: Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of GHGs?

The evaluation of an impact under CEQA requires measuring data from a project against both existing conditions and a "threshold of significance." For establishing significance thresholds, the Office of Planning and Research's amendments to the CEQA Guidelines Section 15064.7(c) state "[w]hen adopting thresholds of significance, a lead agency may consider thresholds of significance previously adopted or recommended by other public agencies, or recommended by experts, provided the decision of the lead agency to adopt such thresholds is supported by substantial evidence."

CEQA Guidelines Section 15064.4(a) further states, ". . . A lead agency shall have discretion to determine, in the context of a particular project, whether to: (1) Use a model or methodology to quantify greenhouse gas emissions resulting from a project, and which model or methodology to use . . .; or (2) Rely on a qualitative analysis or performance-based standards."

CEQA Guidelines Section 15064.4 provides that a lead agency should consider the following factors, among others, in assessing the significance of impacts from GHG emissions:

- Consideration #1: The extent to which the project may increase or reduce GHG emissions as compared to the existing environmental setting.
- Consideration #2: Whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project.
- Consideration #3: The extent to which the project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of GHG emissions. Such regulations or requirements must be adopted by the relevant public agency through a public review process and must reduce or mitigate the project's incremental contribution of GHG emissions. In determining the significance of impacts, the lead agency may consider a project's consistency with the State's long-term climate goals or strategies, provided that substantial evidence supports the agency's analysis of how those goals or strategies address the project's incremental contribution to climate change and its conclusion that the project's incremental contribution is not cumulatively considerable.

DISCUSSION ON ESTABLISHMENT OF SIGNIFICANCE THRESHOLDS

The Mission Springs Water District has not adopted its own numeric threshold of significance for determining impacts with respect to GHG emissions. A screening threshold of 3,000 $MTCO_2e/yr$ to determine if additional analysis is required is an acceptable approach. This approach is a widely accepted screening threshold used by numerous cities and counties in the SSAB and is based on the SCAQMD staff's proposed GHG screening threshold for stationary source emissions for non-industrial projects, as described in the SCAQMD's *Interim CEQA GHG Significance Threshold for*

Stationary Sources, Rules and Plans (SCAQMD Interim GHG Threshold). The SCAQMD Interim GHG Threshold identifies a screening threshold to determine whether additional analysis is required (30).

GHG IMPACTS – CONSISTENCY WITH THRESHOLD NO. 1

Would the Project have the potential to generate direct or indirect GHG emissions that would result in a significant impact on the environment?

The estimated GHG emissions for Project are summarized in Table 9. As shown in Table 9, the Project would generate a total of approximately 261.43 $MTCO_2e$/yr, which would not exceed the screening threshold of 3,000 $MTCO_2e$/yr. This would be considered a less than significant impact. Detailed construction model outputs are presented in Appendix 1.

TABLE 9: TOTAL PROJECT GHG EMISSIONS

Source	Emissions (MT/yr)				
	CO_2T	CH_4	N_2O	R	Total CO_2E
Annual construction emissions amortized over 30 years	257.71	7.91E-03	1.16E-02	5.12E-02	261.43
Total CO_2E (All Sources)	261.43				
Screening Threshold (CO_2E)	3,000				
Threshold Exceeded?	NO				

GHG IMPACTS – CONSISTENCY WITH THRESHOLD NO. 2

Would the Project have the potential to conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of GHGs?

The Mission Springs Water District has not adopted its own numeric threshold of significance for determining impacts with respect to GHG emissions. A screening threshold of 3,000 $MTCO_2e$/yr to determine if additional analysis is required is an acceptable approach. This approach is a widely accepted screening threshold used by numerous cities and counties in the SSAB and is based on the SCAQMD staff's proposed GHG screening threshold for stationary source emissions for non-industrial projects, as described in the SCAQMD's *Interim CEQA GHG Significance Threshold for Stationary Sources, Rules and Plans* (SCAQMD Interim GHG Threshold). The SCAQMD Interim GHG Threshold identifies a screening threshold to determine whether additional analysis is required (30).

The Project will result in approximately 261.43 $MTCO_2e$/yr from construction activities. As such, the Project would not exceed the SCAQMD's recommended numeric threshold of 3,000 $MTCO_2e$/yr if it were applied. Thus, the Project would not result in a cumulatively considerable impact with respect to GHG emissions.

2022 SCOPING PLAN CONSISTENCY

The Project would not impede the State's progress towards carbon neutrality by 2045 under the 2022 Scoping Plan. The Project would be required to comply with applicable current and future regulatory requirements promulgated through the 2022 Scoping Plan. As such, the Project would be consistent with the 2022 Scoping Plan.

As discussed above, the Project involves construction activity and does not propose a trip-generating land use or facilities that would generate any substantive amount of on-going GHG emissions. As presented in Table 9, the Project's GHG emissions are below the 3,000 $MTCO_2e/yr$ threshold. As concluded in Impact Statement GHG-1 the proposed project would not have the potential to generate a significant amount of GHGs emissions. As such, the proposed Project will not conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs. Impacts are considered less than significant in this regard.

CONCLUSION

In summary, the results of the assessment indicate that the Project would result in a less than significant with respect to air quality and GHGs. If you have any questions, please contact me directly at hqureshi@urbanxroads.com.

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APPENDIX 1:

CALEEMOD OUTPUT FILES

16694 - Area A Detailed Report

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5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	16694 - Area A
Construction Start Date	4/1/2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.30
Precipitation (days)	14.2
Location	9440 Brookline Ave, Desert Hot Springs, CA 92240, USA
County	Riverside-Salton Sea
City	Unincorporated
Air District	South Coast AQMD
Air Basin	Salton Sea
TAZ	5641
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.30

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Road Construction	7.58	Mile	3.67	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.88	1.58	13.6	18.6	0.04	0.47	0.89	1.36	0.44	0.23	0.66	—	5,490	5,490	0.16	0.33	5.30	5,598
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.86	1.56	13.8	17.5	0.04	0.47	0.89	1.36	0.44	0.23	0.66	—	5,429	5,429	0.15	0.33	0.14	5,531
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.30	1.09	9.49	12.7	0.03	0.31	0.63	0.94	0.29	0.16	0.45	—	3,855	3,855	0.11	0.24	1.51	3,930
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.24	0.20	1.73	2.31	0.01	0.06	0.11	0.17	0.05	0.03	0.08	—	638	638	0.02	0.04	0.25	651

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.88	1.58	13.6	18.6	0.04	0.47	0.89	1.36	0.44	0.22	0.66	—	5,490	5,490	0.16	0.33	5.30	5,598

2027	1.83	1.54	13.2	18.4	0.04	0.43	0.89	1.32	0.40	0.23	0.63	—	5,434	5,434	0.15	0.33	4.88	5,541
2028	1.77	1.49	12.7	18.2	0.04	0.39	0.89	1.28	0.36	0.23	0.59	—	5,381	5,381	0.15	0.32	4.49	5,484
2029	0.95	0.80	4.75	8.08	0.02	0.14	0.37	0.51	0.13	0.09	0.22	—	2,735	2,735	0.09	0.08	1.35	2,763
2030	0.92	0.77	4.57	7.97	0.02	0.13	0.37	0.50	0.12	0.09	0.22	—	2,721	2,721	0.09	0.08	1.22	2,749
2031	0.90	0.76	4.39	7.86	0.02	0.13	0.37	0.50	0.12	0.09	0.21	—	2,708	2,708	0.09	0.08	1.10	2,735
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.86	1.56	13.8	17.5	0.04	0.47	0.89	1.36	0.44	0.22	0.66	—	5,429	5,429	0.15	0.33	0.14	5,531
2027	1.81	1.51	13.3	17.4	0.04	0.43	0.89	1.32	0.40	0.23	0.63	—	5,374	5,374	0.15	0.33	0.13	5,477
2028	1.74	1.46	12.8	17.2	0.04	0.39	0.89	1.28	0.36	0.23	0.59	—	5,323	5,323	0.15	0.32	0.12	5,421
2029	0.93	0.78	4.78	7.46	0.02	0.14	0.37	0.51	0.13	0.09	0.22	—	2,695	2,695	0.09	0.08	0.04	2,721
2030	0.91	0.76	4.60	7.38	0.02	0.13	0.37	0.50	0.12	0.09	0.22	—	2,682	2,682	0.09	0.08	0.03	2,708
2031	0.89	0.75	4.41	7.32	0.02	0.13	0.37	0.50	0.12	0.09	0.21	—	2,669	2,669	0.09	0.08	0.03	2,695
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.00	0.84	7.39	9.59	0.02	0.25	0.47	0.73	0.24	0.12	0.35	—	2,934	2,934	0.08	0.18	1.23	2,991
2027	1.30	1.09	9.49	12.7	0.03	0.31	0.63	0.94	0.29	0.16	0.45	—	3,855	3,855	0.11	0.24	1.51	3,930
2028	1.11	0.93	7.73	10.8	0.03	0.24	0.54	0.77	0.22	0.14	0.36	—	3,346	3,346	0.10	0.18	1.15	3,405
2029	0.67	0.57	3.40	5.47	0.02	0.10	0.26	0.36	0.09	0.06	0.16	—	1,936	1,936	0.07	0.06	0.42	1,955
2030	0.65	0.55	3.28	5.41	0.02	0.10	0.26	0.36	0.09	0.06	0.15	—	1,927	1,927	0.07	0.06	0.38	1,946
2031	0.16	0.13	0.78	1.33	< 0.005	0.02	0.07	0.09	0.02	0.02	0.04	—	478	478	0.02	0.01	0.08	483
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.18	0.15	1.35	1.75	< 0.005	0.05	0.09	0.13	0.04	0.02	0.06	—	486	486	0.01	0.03	0.20	495
2027	0.24	0.20	1.73	2.31	0.01	0.06	0.11	0.17	0.05	0.03	0.08	—	638	638	0.02	0.04	0.25	651
2028	0.20	0.17	1.41	1.97	< 0.005	0.04	0.10	0.14	0.04	0.03	0.07	—	554	554	0.02	0.03	0.19	564
2029	0.12	0.10	0.62	1.00	< 0.005	0.02	0.05	0.07	0.02	0.01	0.03	—	321	321	0.01	0.01	0.07	324
2030	0.12	0.10	0.60	0.99	< 0.005	0.02	0.05	0.07	0.02	0.01	0.03	—	319	319	0.01	0.01	0.06	322
2031	0.03	0.02	0.14	0.24	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	0.01	—	79.2	79.2	< 0.005	< 0.005	0.01	79.9

3. Construction Emissions Details

3.1. Pipeline Installation (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.53	1.28	10.1	13.7	0.03	0.36	—	0.36	0.33	—	0.33	—	2,899	2,899	0.12	0.02	—	2,909
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.53	1.28	10.1	13.7	0.03	0.36	—	0.36	0.33	—	0.33	—	2,899	2,899	0.12	0.02	—	2,909
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.82	0.69	5.46	7.37	0.01	0.19	—	0.19	0.18	—	0.18	—	1,560	1,560	0.06	0.01	—	1,565
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	1.00	1.35	< 0.005	0.04	—	0.04	0.03	—	0.03	—	258	258	0.01	< 0.005	—	259
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.12	0.12	2.30	0.00	0.00	0.34	0.34	0.00	0.08	0.08	—	378	378	0.01	0.01	1.21	383
Vendor	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	62.1	62.1	< 0.005	0.01	0.16	64.9
Hauling	0.04	0.02	1.78	0.25	0.01	0.04	0.50	0.53	0.04	0.13	0.16	—	1,799	1,799	0.01	0.28	3.81	1,887
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	0.13	1.31	0.00	0.00	0.34	0.34	0.00	0.08	0.08	—	322	322	0.01	0.01	0.03	326
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	62.2	62.2	< 0.005	0.01	< 0.005	64.8
Hauling	0.04	0.02	1.90	0.25	0.01	0.04	0.50	0.53	0.04	0.13	0.16	—	1,800	1,800	0.01	0.28	0.10	1,884
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.07	0.88	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	185	185	< 0.005	0.01	0.28	187

Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	33.5	33.5	< 0.005	< 0.005	0.04	34.9
Hauling	0.02	0.01	1.01	0.13	0.01	0.02	0.27	0.29	0.02	0.07	0.09	—	968	968	0.01	0.15	0.89	1,015
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.16	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	30.6	30.6	< 0.005	< 0.005	0.05	31.0
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.54	5.54	< 0.005	< 0.005	0.01	5.77
Hauling	< 0.005	< 0.005	0.18	0.02	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	160	160	< 0.005	0.03	0.15	168

3.3. Pipeline Installation (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.49	1.25	9.83	13.7	0.03	0.33	—	0.33	0.30	—	0.30	—	2,898	2,898	0.12	0.02	—	2,908
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.49	1.25	9.83	13.7	0.03	0.33	—	0.33	0.30	—	0.30	—	2,898	2,898	0.12	0.02	—	2,908

Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	0.89	7.02	9.79	0.02	0.23	—	0.23	0.21	—	0.21	—	2,070	2,070	0.08	0.02	—	2,077
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.19	0.16	1.28	1.79	< 0.005	0.04	—	0.04	0.04	—	0.04	—	343	343	0.01	< 0.005	—	344
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.11	0.11	2.14	0.00	0.00	0.34	0.34	0.00	0.08	0.08	—	370	370	< 0.005	0.01	1.09	375
Vendor	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	60.8	60.8	< 0.005	0.01	0.15	63.3
Hauling	0.04	0.02	1.72	0.25	0.01	0.04	0.50	0.53	0.04	0.14	0.18	—	1,753	1,753	0.01	0.28	3.54	1,841

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.09	0.12	1.22	0.00	0.00	0.34	0.34	0.00	0.08	0.08	—	316	316	< 0.005	0.01	0.03	319
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	60.8	60.8	< 0.005	0.01	< 0.005	63.2
Hauling	0.04	0.02	1.84	0.25	0.01	0.04	0.50	0.53	0.04	0.14	0.18	—	1,754	1,754	0.01	0.28	0.09	1,838
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.08	1.09	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	241	241	< 0.005	0.01	0.34	244
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	43.4	43.4	< 0.005	0.01	0.05	45.2
Hauling	0.03	0.02	1.29	0.18	0.01	0.03	0.35	0.38	0.03	0.10	0.13	—	1,252	1,252	0.01	0.20	1.09	1,314
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.20	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	39.9	39.9	< 0.005	< 0.005	0.06	40.4
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.19	7.19	< 0.005	< 0.005	0.01	7.48
Hauling	< 0.005	< 0.005	0.24	0.03	< 0.005	< 0.005	0.06	0.07	< 0.005	0.02	0.02	—	207	207	< 0.005	0.03	0.18	218

3.5. Pipeline Installation (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.45	1.21	9.44	13.7	0.03	0.29	—	0.29	0.27	—	0.27	—	2,899	2,899	0.12	0.02	—	2,909
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.45	1.21	9.44	13.7	0.03	0.29	—	0.29	0.27	—	0.27	—	2,899	2,899	0.12	0.02	—	2,909
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.77	0.65	5.03	7.28	0.01	0.15	—	0.15	0.14	—	0.14	—	1,543	1,543	0.06	0.01	—	1,548
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.12	0.92	1.33	< 0.005	0.03	—	0.03	0.03	—	0.03	—	255	255	0.01	< 0.005	—	256
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.11	0.10	2.00	0.00	0.00	0.34	0.34	0.00	0.08	0.08	—	363	363	< 0.005	0.01	0.98	368
Vendor	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	59.3	59.3	< 0.005	0.01	0.14	61.9
Hauling	0.04	0.02	1.68	0.23	0.01	0.04	0.50	0.53	0.04	0.14	0.18	—	1,708	1,708	0.01	0.27	3.28	1,792
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.09	0.11	1.13	0.00	0.00	0.34	0.34	0.00	0.08	0.08	—	310	310	< 0.005	0.01	0.03	314
Vendor	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	59.4	59.4	< 0.005	0.01	< 0.005	61.8
Hauling	0.04	0.02	1.79	0.24	0.01	0.04	0.50	0.53	0.04	0.14	0.18	—	1,709	1,709	0.01	0.27	0.08	1,790
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.05	0.75	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	176	176	< 0.005	0.01	0.23	178
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	31.6	31.6	< 0.005	< 0.005	0.03	32.9
Hauling	0.02	0.01	0.94	0.13	0.01	0.02	0.26	0.28	0.02	0.07	0.09	—	909	909	0.01	0.14	0.75	953
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.14	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	29.2	29.2	< 0.005	< 0.005	0.04	29.5
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.23	5.23	< 0.005	< 0.005	0.01	5.45
Hauling	< 0.005	< 0.005	0.17	0.02	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	151	151	< 0.005	0.02	0.12	158

3.7. Septic Tanks Abatements (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.87	0.73	4.57	6.62	0.02	0.15	—	0.15	0.13	—	0.13	—	2,099	2,099	0.09	0.02	—	2,107
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.87	0.73	4.57	6.62	0.02	0.15	—	0.15	0.13	—	0.13	—	2,099	2,099	0.09	0.02	—	2,107
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.13	0.84	1.22	< 0.005	0.03	—	0.03	0.02	—	0.02	—	386	386	0.02	< 0.005	—	387
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.15	0.22	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	63.9	63.9	< 0.005	< 0.005	—	64.2

Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.08	1.54	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	280	280	< 0.005	0.01	0.76	283
Vendor	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	59.3	59.3	< 0.005	0.01	0.14	61.9
Hauling	0.01	< 0.005	0.31	0.04	< 0.005	0.01	0.09	0.10	0.01	0.03	0.03	—	311	311	< 0.005	0.05	0.60	326
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.09	0.87	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	238	238	< 0.005	0.01	0.02	241
Vendor	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	59.4	59.4	< 0.005	0.01	< 0.005	61.8
Hauling	0.01	< 0.005	0.33	0.04	< 0.005	0.01	0.09	0.10	0.01	0.03	0.03	—	311	311	< 0.005	0.05	0.02	325
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.20	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	46.8	46.8	< 0.005	< 0.005	0.06	47.4
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.9	10.9	< 0.005	< 0.005	0.01	11.4
Hauling	< 0.005	< 0.005	0.06	0.01	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	57.1	57.1	< 0.005	0.01	0.05	59.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.75	7.75	< 0.005	< 0.005	0.01	7.85
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.81	1.81	< 0.005	< 0.005	< 0.005	1.88
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.46	9.46	< 0.005	< 0.005	0.01	9.92

3.9. Septic Tanks Abatements (2029) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.86	0.72	4.33	6.58	0.02	0.13	—	0.13	0.12	—	0.12	—	2,100	2,100	0.09	0.02	—	2,107
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.86	0.72	4.33	6.58	0.02	0.13	—	0.13	0.12	—	0.12	—	2,100	2,100	0.09	0.02	—	2,107
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.61	0.51	3.09	4.70	0.01	0.10	—	0.10	0.09	—	0.09	—	1,500	1,500	0.06	0.01	—	1,505
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.56	0.86	< 0.005	0.02	—	0.02	0.02	—	0.02	—	248	248	0.01	< 0.005	—	249
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.07	1.43	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	275	275	< 0.005	0.01	0.68	278
Vendor	< 0.005	< 0.005	0.06	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	57.8	57.8	< 0.005	0.01	0.13	60.2
Hauling	0.01	< 0.005	0.30	0.04	< 0.005	0.01	0.09	0.10	0.01	0.03	0.03	—	303	303	< 0.005	0.05	0.55	317
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.08	0.82	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	234	234	< 0.005	0.01	0.02	237
Vendor	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	57.8	57.8	< 0.005	0.01	< 0.005	60.1
Hauling	0.01	< 0.005	0.32	0.04	< 0.005	0.01	0.09	0.10	0.01	0.03	0.03	—	303	303	< 0.005	0.05	0.01	317
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.05	0.73	0.00	0.00	0.19	0.19	0.00	0.04	0.04	—	179	179	< 0.005	0.01	0.21	181
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	41.3	41.3	< 0.005	0.01	0.04	42.9
Hauling	< 0.005	< 0.005	0.22	0.03	< 0.005	< 0.005	0.06	0.07	< 0.005	0.02	0.02	—	216	216	< 0.005	0.03	0.17	226
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.13	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	29.6	29.6	< 0.005	< 0.005	0.03	29.9

Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.83	6.83	< 0.005	< 0.005	0.01	7.11
Hauling	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	35.8	35.8	< 0.005	0.01	0.03	37.5

3.11. Septic Tanks Abatements (2030) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.84	0.70	4.17	6.55	0.02	0.13	—	0.13	0.12	—	0.12	—	2,100	2,100	0.09	0.02	—	2,107
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.84	0.70	4.17	6.55	0.02	0.13	—	0.13	0.12	—	0.12	—	2,100	2,100	0.09	0.02	—	2,107
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.60	0.50	2.98	4.68	0.01	0.09	—	0.09	0.08	—	0.08	—	1,500	1,500	0.06	0.01	—	1,505
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.54	0.85	< 0.005	0.02	—	0.02	0.02	—	0.02	—	248	248	0.01	< 0.005	—	249
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.06	1.35	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	270	270	< 0.005	0.01	0.61	273
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	56.1	56.1	< 0.005	0.01	0.12	58.5
Hauling	0.01	< 0.005	0.29	0.04	< 0.005	0.01	0.09	0.10	0.01	0.03	0.03	—	295	295	< 0.005	0.05	0.50	310
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.07	0.76	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	230	230	< 0.005	0.01	0.02	233
Vendor	< 0.005	< 0.005	0.06	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	56.2	56.2	< 0.005	0.01	< 0.005	58.5
Hauling	0.01	< 0.005	0.31	0.04	< 0.005	0.01	0.09	0.10	0.01	0.03	0.03	—	295	295	< 0.005	0.05	0.01	309
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.05	0.68	0.00	0.00	0.19	0.19	0.00	0.04	0.04	—	176	176	< 0.005	0.01	0.19	178

Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	40.1	40.1	< 0.005	0.01	0.04	41.8
Hauling	< 0.005	< 0.005	0.22	0.03	< 0.005	< 0.005	0.06	0.07	< 0.005	0.02	0.02	—	211	211	< 0.005	0.03	0.15	221
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	29.1	29.1	< 0.005	< 0.005	0.03	29.4
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.64	6.64	< 0.005	< 0.005	0.01	6.92
Hauling	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	34.9	34.9	< 0.005	0.01	0.03	36.6

3.13. Septic Tanks Abatements (2031) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.82	0.69	3.99	6.54	0.02	0.12	—	0.12	0.11	—	0.11	—	2,100	2,100	0.09	0.02	—	2,107
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.82	0.69	3.99	6.54	0.02	0.12	—	0.12	0.11	—	0.11	—	2,100	2,100	0.09	0.02	—	2,107

Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.12	0.71	1.17	< 0.005	0.02	—	0.02	0.02	—	0.02	—	374	374	0.02	< 0.005	—	375
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.13	0.21	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	61.9	61.9	< 0.005	< 0.005	—	62.1
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.06	1.26	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	266	266	< 0.005	0.01	0.54	269
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	54.5	54.5	< 0.005	0.01	0.11	56.8
Hauling	0.01	< 0.005	0.28	0.04	< 0.005	0.01	0.09	0.10	0.01	0.03	0.03	—	288	288	< 0.005	0.04	0.45	302

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.06	0.71	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	227	227	< 0.005	0.01	0.01	229
Vendor	< 0.005	< 0.005	0.06	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	54.5	54.5	< 0.005	0.01	< 0.005	56.8
Hauling	0.01	< 0.005	0.31	0.04	< 0.005	0.01	0.09	0.10	0.01	0.03	0.03	—	288	288	< 0.005	0.04	0.01	301
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.16	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	43.1	43.1	< 0.005	< 0.005	0.04	43.6
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.71	9.71	< 0.005	< 0.005	0.01	10.1
Hauling	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	51.3	51.3	< 0.005	0.01	0.03	53.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.13	7.13	< 0.005	< 0.005	0.01	7.23
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.61	1.61	< 0.005	< 0.005	< 0.005	1.68
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	8.49	8.49	< 0.005	< 0.005	0.01	8.89

3.15. Linear, Paving (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	0.14	1.52	2.06	< 0.005	0.08	—	0.08	0.07	—	0.07	—	315	315	0.01	< 0.005	—	317
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.17	0.14	1.52	2.06	< 0.005	0.08	—	0.08	0.07	—	0.07	—	315	315	0.01	< 0.005	—	317
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.08	0.82	1.11	< 0.005	0.04	—	0.04	0.04	—	0.04	—	170	170	0.01	< 0.005	—	170
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.15	0.20	< 0.005	0.01	—	0.01	0.01	—	0.01	—	28.1	28.1	< 0.005	< 0.005	—	28.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.22	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	36.3	36.3	< 0.005	< 0.005	0.12	36.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.13	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	30.9	30.9	< 0.005	< 0.005	< 0.005	31.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	17.8	17.8	< 0.005	< 0.005	0.03	18.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.95	2.95	< 0.005	< 0.005	< 0.005	2.98
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.17. Linear, Paving (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.14	1.47	2.06	< 0.005	0.07	—	0.07	0.07	—	0.07	—	315	315	0.01	< 0.005	—	317
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.14	1.47	2.06	< 0.005	0.07	—	0.07	0.07	—	0.07	—	315	315	0.01	< 0.005	—	317
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.12	0.10	1.05	1.47	< 0.005	0.05	—	0.05	0.05	—	0.05	—	225	225	0.01	< 0.005	—	226
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.19	0.27	< 0.005	0.01	—	0.01	0.01	—	0.01	—	37.3	37.3	< 0.005	< 0.005	—	37.4
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.21	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	35.6	35.6	< 0.005	< 0.005	0.10	36.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	30.3	30.3	< 0.005	< 0.005	< 0.005	30.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.10	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	23.2	23.2	< 0.005	< 0.005	0.03	23.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.83	3.83	< 0.005	< 0.005	0.01	3.88
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.19. Linear, Paving (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	1.40	2.06	< 0.005	0.06	—	0.06	0.06	—	0.06	—	316	316	0.01	< 0.005	—	317
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	1.40	2.06	< 0.005	0.06	—	0.06	0.06	—	0.06	—	316	316	0.01	< 0.005	—	317
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.75	1.10	< 0.005	0.03	—	0.03	0.03	—	0.03	—	168	168	0.01	< 0.005	—	169
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.01	0.01	0.14	0.20	< 0.005	0.01	—	0.01	0.01	—	0.01	—	27.8	27.8	< 0.005	< 0.005	—	27.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.19	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	35.0	35.0	< 0.005	< 0.005	0.09	35.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.11	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	29.8	29.8	< 0.005	< 0.005	< 0.005	30.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.07	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	16.9	16.9	< 0.005	< 0.005	0.02	17.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.80	2.80	< 0.005	< 0.005	< 0.005	2.84
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Pipeline Installation	Linear, Grading & Excavation	4/1/2026	9/28/2028	5.00	652	—
Septic Tanks Abatements	Linear, Drainage, Utilities, & Sub-Grade	9/29/2028	4/1/2031	5.00	653	—
Linear, Paving	Linear, Paving	4/1/2026	9/28/2028	5.00	652	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Pipeline Installation	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Pipeline Installation	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Pipeline Installation	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Pipeline Installation	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Pipeline Installation	Rollers	Diesel	Average	1.00	8.00	36.0	0.38
Pipeline Installation	Off-Highway Trucks	Diesel	Average	1.00	8.00	376	0.38
Pipeline Installation	Signal Boards	Electric	Average	1.00	8.00	6.00	0.82
Septic Tanks Abatements	Excavators	Diesel	Average	1.00	8.00	36.0	0.38

Septic Tanks Abatements	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Septic Tanks Abatements	Off-Highway Trucks	Diesel	Average	1.00	2.00	376	0.38
Septic Tanks Abatements	Off-Highway Trucks	Diesel	Average	1.00	8.00	376	0.38
Septic Tanks Abatements	Signal Boards	Electric	Average	1.00	8.00	6.00	0.82
Linear, Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Pipeline Installation	—	—	—	—
Pipeline Installation	Worker	26.0	18.5	LDA,LDT1,LDT2
Pipeline Installation	Vendor	2.00	10.2	HHDT,MHDT
Pipeline Installation	Hauling	11.0	50.0	HHDT
Pipeline Installation	Onsite truck	—	—	HHDT
Septic Tanks Abatements	—	—	—	—
Septic Tanks Abatements	Worker	20.0	18.5	LDA,LDT1,LDT2
Septic Tanks Abatements	Vendor	2.00	10.2	HHDT,MHDT
Septic Tanks Abatements	Hauling	2.00	50.0	HHDT
Septic Tanks Abatements	Onsite truck	—	—	HHDT
Linear, Paving	—	—	—	—
Linear, Paving	Worker	2.50	18.5	LDA,LDT1,LDT2
Linear, Paving	Vendor	0.00	10.2	HHDT,MHDT
Linear, Paving	Hauling	0.00	20.0	HHDT
Linear, Paving	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Pipeline Installation	—	3,480	3.67	0.00	—
Septic Tanks Abatements	—	—	3.67	0.00	—

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Road Construction	3.67	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O

2026	29.4	532	0.03	< 0.005
2027	29.4	532	0.03	< 0.005
2028	58.7	532	0.03	< 0.005
2029	29.4	532	0.03	< 0.005
2030	29.4	532	0.03	< 0.005
2031	29.4	532	0.03	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.9	annual days of extreme heat
Extreme Precipitation	0.65	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	2.84	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	0	0	0	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	1	1	2
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	1	1	1	2
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	93.6
AQ-PM	4.26
AQ-DPM	11.2
Drinking Water	29.5
Lead Risk Housing	10.2

Pesticides	0.00
Toxic Releases	1.45
Traffic	4.08
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	0.00
Sensitive Population	—
Asthma	78.9
Cardio-vascular	91.3
Low Birth Weights	51.0
Socioeconomic Factor Indicators	—
Education	14.2
Housing	6.32
Linguistic	8.49
Poverty	30.8
Unemployment	11.9

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	54.72860259
Employed	19.33786732
Median HI	48.32542025
Education	—

Bachelor's or higher	51.84139612
High school enrollment	100
Preschool enrollment	35.76286411
Transportation	—
Auto Access	93.63531374
Active commuting	39.17618375
Social	—
2-parent households	91.6976774
Voting	62.9026049
Neighborhood	—
Alcohol availability	97.0101373
Park access	16.24534839
Retail density	3.977928911
Supermarket access	2.399589375
Tree canopy	12.79353266
Housing	—
Homeownership	70.96111895
Housing habitability	89.42640832
Low-inc homeowner severe housing cost burden	62.7229565
Low-inc renter severe housing cost burden	87.21929937
Uncrowded housing	78.31387142
Health Outcomes	—
Insured adults	76.54305146
Arthritis	0.0
Asthma ER Admissions	19.1
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0

Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	56.2
Cognitively Disabled	38.1
Physically Disabled	62.2
Heart Attack ER Admissions	31.0
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	6.6
SLR Inundation Area	0.0
Children	92.8
Elderly	1.7
English Speaking	81.9
Foreign-born	22.3
Outdoor Workers	19.6
Climate Change Adaptive Capacity	—
Impervious Surface Cover	86.8
Traffic Density	6.6

Traffic Access	23.0
Other Indices	—
Hardship	51.7
Other Decision Support	—
2016 Voting	73.0

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	7.00
Healthy Places Index Score for Project Location (b)	56.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	60 months of construction anticipated
Construction: Off-Road Equipment	Specific equipment provided by client
Construction: Trips and VMT	Worker trips and hauling trips provided by applicant

16694 - Area D-3 Detailed Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	16694 - Area D-3
Construction Start Date	4/2/2031
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.30
Precipitation (days)	14.2
Location	6609 San Juan Rd, Desert Hot Springs, CA 92240, USA
County	Riverside-Salton Sea
City	Desert Hot Springs
Air District	South Coast AQMD
Air Basin	Salton Sea
TAZ	5641
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.30

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Road Construction	0.85	Mile	0.41	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.61	1.34	11.6	17.7	0.04	0.32	0.89	1.20	0.29	0.23	0.53	—	5,231	5,231	0.15	0.29	3.37	5,326
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.89	0.75	4.41	7.32	0.02	0.13	0.37	0.50	0.12	0.09	0.21	—	2,669	2,669	0.09	0.08	0.03	2,695
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.45	0.38	2.92	4.45	0.01	0.08	0.23	0.31	0.07	0.06	0.13	—	1,425	1,425	0.04	0.07	0.35	1,447
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.08	0.07	0.53	0.81	< 0.005	0.01	0.04	0.06	0.01	0.01	0.02	—	236	236	0.01	0.01	0.06	240

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2031	1.61	1.34	11.6	17.7	0.04	0.32	0.89	1.20	0.29	0.23	0.53	—	5,231	5,231	0.15	0.29	3.37	5,326

Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2031	0.89	0.75	4.41	7.32	0.02	0.13	0.37	0.50	0.12	0.09	0.21	—	2,669	2,669	0.09	0.08	0.03	2,695
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2031	0.45	0.38	2.92	4.45	0.01	0.08	0.23	0.31	0.07	0.06	0.13	—	1,425	1,425	0.04	0.07	0.35	1,447
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2031	0.08	0.07	0.53	0.81	< 0.005	0.01	0.04	0.06	0.01	0.01	0.02	—	236	236	0.01	0.01	0.06	240

3. Construction Emissions Details

3.1. Linear, Grading & Excavation (2031) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.33	1.11	8.67	13.6	0.03	0.23	—	0.23	0.21	—	0.21	—	2,899	2,899	0.12	0.02	—	2,909
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.24	0.20	1.57	2.45	0.01	0.04	—	0.04	0.04	—	0.04	—	524	524	0.02	< 0.005	—	526
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.29	0.45	< 0.005	0.01	—	0.01	0.01	—	0.01	—	86.8	86.8	< 0.005	< 0.005	—	87.1
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.08	1.63	0.00	0.00	0.34	0.34	0.00	0.08	0.08	—	345	345	< 0.005	0.01	0.70	350
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	54.5	54.5	< 0.005	0.01	0.11	56.8
Hauling	0.04	0.02	1.56	0.22	0.01	0.04	0.50	0.53	0.04	0.14	0.18	—	1,583	1,583	0.01	0.25	2.50	1,660
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.21	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	56.9	56.9	< 0.005	< 0.005	0.05	57.6
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.85	9.85	< 0.005	< 0.005	0.01	10.3
Hauling	0.01	< 0.005	0.30	0.04	< 0.005	0.01	0.09	0.10	0.01	0.03	0.03	—	286	286	< 0.005	0.04	0.20	300
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.42	9.42	< 0.005	< 0.005	0.01	9.54
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.63	1.63	< 0.005	< 0.005	< 0.005	1.70
Hauling	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	47.4	47.4	< 0.005	0.01	0.03	49.6

3.3. Linear, Drainage, Utilities, & Sub-Grade (2031) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.82	0.69	3.99	6.54	0.02	0.12	—	0.12	0.11	—	0.11	—	2,100	2,100	0.09	0.02	—	2,107
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.82	0.69	3.99	6.54	0.02	0.12	—	0.12	0.11	—	0.11	—	2,100	2,100	0.09	0.02	—	2,107
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.12	0.72	1.18	< 0.005	0.02	—	0.02	0.02	—	0.02	—	380	380	0.02	< 0.005	—	381
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.13	0.22	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	62.9	62.9	< 0.005	< 0.005	—	63.1
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.06	1.26	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	266	266	< 0.005	0.01	0.54	269
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	54.5	54.5	< 0.005	0.01	0.11	56.8
Hauling	0.01	< 0.005	0.28	0.04	< 0.005	0.01	0.09	0.10	0.01	0.03	0.03	—	288	288	< 0.005	0.04	0.45	302
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.06	0.71	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	227	227	< 0.005	0.01	0.01	229
Vendor	< 0.005	< 0.005	0.06	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	54.5	54.5	< 0.005	0.01	< 0.005	56.8

Hauling	0.01	< 0.005	0.31	0.04	< 0.005	0.01	0.09	0.10	0.01	0.03	0.03	—	288	288	< 0.005	0.04	0.01	301
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.16	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	43.8	43.8	< 0.005	< 0.005	0.04	44.3
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.85	9.85	< 0.005	< 0.005	0.01	10.3
Hauling	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	52.1	52.1	< 0.005	0.01	0.04	54.5
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.24	7.24	< 0.005	< 0.005	0.01	7.34
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.63	1.63	< 0.005	< 0.005	< 0.005	1.70
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	8.62	8.62	< 0.005	< 0.005	0.01	9.03

3.5. Paving (2031) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.12	1.25	2.06	< 0.005	0.05	—	0.05	0.05	—	0.05	—	316	316	0.01	< 0.005	—	317
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.23	0.37	< 0.005	0.01	—	0.01	0.01	—	0.01	—	57.1	57.1	< 0.005	< 0.005	—	57.2

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.04	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.45	9.45	< 0.005	< 0.005	—	9.48
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.16	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	33.2	33.2	< 0.005	< 0.005	0.07	33.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.47	5.47	< 0.005	< 0.005	0.01	5.54
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.91	0.91	< 0.005	< 0.005	< 0.005	0.92
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Linear, Grading & Excavation	Linear, Grading & Excavation	4/2/2031	7/2/2031	5.00	66.0	—
Linear, Drainage, Utilities, & Sub-Grade	Linear, Drainage, Utilities, & Sub-Grade	7/3/2031	10/2/2031	5.00	66.0	—
Paving	Linear, Paving	4/2/2031	7/2/2031	5.00	66.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Linear, Grading & Excavation	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Linear, Grading & Excavation	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Linear, Grading & Excavation	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Linear, Grading & Excavation	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Linear, Grading & Excavation	Rollers	Diesel	Average	1.00	8.00	36.0	0.38
Linear, Grading & Excavation	Off-Highway Trucks	Diesel	Average	1.00	8.00	376	0.38

Linear, Grading & Excavation	Signal Boards	Electric	Average	1.00	8.00	6.00	0.82
Linear, Drainage, Utilities, & Sub-Grade	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Linear, Drainage, Utilities, & Sub-Grade	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Linear, Drainage, Utilities, & Sub-Grade	Off-Highway Trucks	Diesel	Average	1.00	2.00	376	0.38
Linear, Drainage, Utilities, & Sub-Grade	Off-Highway Trucks	Diesel	Average	1.00	8.00	376	0.38
Linear, Drainage, Utilities, & Sub-Grade	Signal Boards	Electric	Average	1.00	8.00	6.00	0.82
Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Linear, Grading & Excavation	—	—	—	—
Linear, Grading & Excavation	Worker	26.0	18.5	LDA,LDT1,LDT2
Linear, Grading & Excavation	Vendor	2.00	10.2	HHDT,MHDT
Linear, Grading & Excavation	Hauling	11.0	50.0	HHDT
Linear, Grading & Excavation	Onsite truck	—	—	HHDT
Linear, Drainage, Utilities, & Sub-Grade	—	—	—	—
Linear, Drainage, Utilities, & Sub-Grade	Worker	20.0	18.5	LDA,LDT1,LDT2
Linear, Drainage, Utilities, & Sub-Grade	Vendor	2.00	10.2	HHDT,MHDT
Linear, Drainage, Utilities, & Sub-Grade	Hauling	2.00	50.0	HHDT

Linear, Drainage, Utilities, & Sub-Grade	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	2.50	18.5	LDA,LDT1,LDT2
Paving	Vendor	0.00	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Linear, Grading & Excavation	—	392	0.41	0.00	—
Linear, Drainage, Utilities, & Sub-Grade	—	—	0.41	0.00	—

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Road Construction	0.41	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2031	58.7	532	0.03	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.9	annual days of extreme heat
Extreme Precipitation	0.65	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	2.84	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	0	0	0	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	1	1	2
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	1	1	1	2
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	93.6
AQ-PM	3.55

AQ-DPM	8.62
Drinking Water	29.5
Lead Risk Housing	35.2
Pesticides	0.00
Toxic Releases	2.65
Traffic	5.91
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	9.67
Sensitive Population	—
Asthma	66.4
Cardio-vascular	77.4
Low Birth Weights	61.2
Socioeconomic Factor Indicators	—
Education	54.4
Housing	66.5
Linguistic	14.9
Poverty	78.6
Unemployment	—

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	16.68163737

Employed	17.00243809
Median HI	21.37815989
Education	—
Bachelor's or higher	28.85923264
High school enrollment	25.92069806
Preschool enrollment	32.52919287
Transportation	—
Auto Access	33.77389965
Active commuting	41.11382009
Social	—
2-parent households	30.73270884
Voting	20.92903888
Neighborhood	—
Alcohol availability	85.02502246
Park access	23.52110869
Retail density	8.032849994
Supermarket access	15.05196972
Tree canopy	0.474785064
Housing	—
Homeownership	50.03208007
Housing habitability	61.99153086
Low-inc homeowner severe housing cost burden	84.47324522
Low-inc renter severe housing cost burden	52.0980367
Uncrowded housing	38.27794174
Health Outcomes	—
Insured adults	27.4990376
Arthritis	0.0
Asthma ER Admissions	23.6

High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	30.9
Cognitively Disabled	5.2
Physically Disabled	9.2
Heart Attack ER Admissions	38.6
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	50.1
Elderly	30.9
English Speaking	74.3
Foreign-born	28.3
Outdoor Workers	21.4

Climate Change Adaptive Capacity	—
Impervious Surface Cover	85.0
Traffic Density	7.4
Traffic Access	23.0
Other Indices	—
Hardship	73.0
Other Decision Support	—
2016 Voting	32.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	18.0
Healthy Places Index Score for Project Location (b)	21.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification

Construction: Construction Phases	6 months of construction anticipated
Construction: Off-Road Equipment	Specific equipment provided by client
Construction: Trips and VMT	Worker Trips and Hauling trips provided by applicant
Construction: Architectural Coatings	s

16694 - Area G Detailed Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	16694 - Area G
Construction Start Date	10/3/2031
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.30
Precipitation (days)	11.2
Location	67067 Desert View Ave, Desert Hot Springs, CA 92240, USA
County	Riverside-Salton Sea
City	Desert Hot Springs
Air District	South Coast AQMD
Air Basin	Salton Sea
TAZ	5640
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.30

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Road Construction	1.84	Mile	0.89	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.57	1.31	11.3	17.5	0.04	0.30	0.89	1.19	0.28	0.23	0.51	—	5,188	5,188	0.15	0.28	3.03	5,278
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.59	1.33	11.8	16.9	0.04	0.32	0.89	1.20	0.29	0.23	0.53	—	5,176	5,176	0.15	0.29	0.09	5,267
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.60	0.50	3.60	5.77	0.02	0.10	0.29	0.39	0.09	0.07	0.17	—	1,897	1,897	0.06	0.08	0.39	1,924
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.11	0.09	0.66	1.05	< 0.005	0.02	0.05	0.07	0.02	0.01	0.03	—	314	314	0.01	0.01	0.06	318

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2032	1.57	1.31	11.3	17.5	0.04	0.30	0.89	1.19	0.28	0.23	0.51	—	5,188	5,188	0.15	0.28	3.03	5,278

Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2031	1.59	1.33	11.8	16.9	0.04	0.32	0.89	1.20	0.29	0.23	0.53	—	5,176	5,176	0.15	0.29	0.09	5,267
2032	1.56	1.30	11.5	16.8	0.04	0.30	0.89	1.19	0.28	0.23	0.51	—	5,134	5,134	0.15	0.29	0.08	5,225
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2031	0.28	0.23	2.06	3.02	0.01	0.06	0.16	0.21	0.05	0.04	0.09	—	915	915	0.03	0.05	0.26	932
2032	0.60	0.50	3.60	5.77	0.02	0.10	0.29	0.39	0.09	0.07	0.17	—	1,897	1,897	0.06	0.08	0.39	1,924
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2031	0.05	0.04	0.38	0.55	< 0.005	0.01	0.03	0.04	0.01	0.01	0.02	—	152	152	< 0.005	0.01	0.04	154
2032	0.11	0.09	0.66	1.05	< 0.005	0.02	0.05	0.07	0.02	0.01	0.03	—	314	314	0.01	0.01	0.06	318

3. Construction Emissions Details

3.1. Linear, Grading & Excavation (2031) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.33	1.11	8.67	13.6	0.03	0.23	—	0.23	0.21	—	0.21	—	2,899	2,899	0.12	0.02	—	2,909
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.20	1.53	2.39	< 0.005	0.04	—	0.04	0.04	—	0.04	—	511	511	0.02	< 0.005	—	512
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.28	0.44	< 0.005	0.01	—	0.01	0.01	—	0.01	—	84.5	84.5	< 0.005	< 0.005	—	84.8
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.08	0.92	0.00	0.00	0.34	0.34	0.00	0.08	0.08	—	295	295	< 0.005	0.01	0.02	298
Vendor	< 0.005	< 0.005	0.06	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	54.5	54.5	< 0.005	0.01	< 0.005	56.8
Hauling	0.04	0.02	1.69	0.23	0.01	0.04	0.50	0.53	0.04	0.14	0.18	—	1,584	1,584	0.01	0.25	0.07	1,658

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.20	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	55.4	55.4	< 0.005	< 0.005	0.05	56.1
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.60	9.60	< 0.005	< 0.005	0.01	10.0
Hauling	0.01	< 0.005	0.29	0.04	< 0.005	0.01	0.09	0.09	0.01	0.02	0.03	—	279	279	< 0.005	0.04	0.19	292
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.17	9.17	< 0.005	< 0.005	0.01	9.29
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.59	1.59	< 0.005	< 0.005	< 0.005	1.66
Hauling	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	46.2	46.2	< 0.005	0.01	0.03	48.4

3.3. Linear, Grading & Excavation (2032) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.30	1.09	8.46	13.5	0.03	0.21	—	0.21	0.20	—	0.20	—	2,899	2,899	0.12	0.02	—	2,909
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.30	1.09	8.46	13.5	0.03	0.21	—	0.21	0.20	—	0.20	—	2,899	2,899	0.12	0.02	—	2,909

Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24	0.20	1.54	2.47	0.01	0.04	—	0.04	0.04	—	0.04	—	528	528	0.02	< 0.005	—	529
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.28	0.45	< 0.005	0.01	—	0.01	0.01	—	0.01	—	87.4	87.4	< 0.005	< 0.005	—	87.7
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.07	1.54	0.00	0.00	0.34	0.34	0.00	0.08	0.08	—	340	340	< 0.005	< 0.005	0.62	342
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	52.9	52.9	< 0.005	0.01	0.10	55.1
Hauling	0.04	0.02	1.54	0.22	0.01	0.04	0.50	0.53	0.04	0.14	0.18	—	1,547	1,547	0.01	0.25	2.25	1,623

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.06	0.08	0.87	0.00	0.00	0.34	0.34	0.00	0.08	0.08	—	290	290	< 0.005	0.01	0.02	294
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	52.9	52.9	< 0.005	0.01	< 0.005	55.1
Hauling	0.04	0.02	1.65	0.23	0.01	0.04	0.50	0.53	0.04	0.14	0.18	—	1,547	1,547	0.01	0.25	0.06	1,621
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.20	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	56.5	56.5	< 0.005	< 0.005	0.05	57.2
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.63	9.63	< 0.005	< 0.005	0.01	10.0
Hauling	0.01	< 0.005	0.30	0.04	< 0.005	0.01	0.09	0.10	0.01	0.03	0.03	—	282	282	< 0.005	0.04	0.18	295
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.35	9.35	< 0.005	< 0.005	0.01	9.47
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.59	1.59	< 0.005	< 0.005	< 0.005	1.66
Hauling	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	46.6	46.6	< 0.005	0.01	0.03	48.9

3.5. Linear, Drainage, Utilities, & Sub-Grade (2032) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.81	0.68	3.83	6.54	0.02	0.11	—	0.11	0.11	—	0.11	—	2,100	2,100	0.09	0.02	—	2,107
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.81	0.68	3.83	6.54	0.02	0.11	—	0.11	0.11	—	0.11	—	2,100	2,100	0.09	0.02	—	2,107
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.29	0.24	1.38	2.35	0.01	0.04	—	0.04	0.04	—	0.04	—	754	754	0.03	0.01	—	756
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.25	0.43	< 0.005	0.01	—	0.01	0.01	—	0.01	—	125	125	0.01	< 0.005	—	125
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.05	1.19	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	262	262	< 0.005	< 0.005	0.48	263
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	52.9	52.9	< 0.005	0.01	0.10	55.1
Hauling	0.01	< 0.005	0.28	0.04	< 0.005	0.01	0.09	0.10	0.01	0.03	0.03	—	281	281	< 0.005	0.04	0.41	295
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.06	0.67	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	223	223	< 0.005	0.01	0.01	226
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	52.9	52.9	< 0.005	0.01	< 0.005	55.1
Hauling	0.01	< 0.005	0.30	0.04	< 0.005	0.01	0.09	0.10	0.01	0.03	0.03	—	281	281	< 0.005	0.04	0.01	295
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.30	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	85.6	85.6	< 0.005	< 0.005	0.07	86.7
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	19.0	19.0	< 0.005	< 0.005	0.01	19.8
Hauling	< 0.005	< 0.005	0.11	0.01	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	101	101	< 0.005	0.02	0.06	106
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	14.2	14.2	< 0.005	< 0.005	0.01	14.4
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.14	3.14	< 0.005	< 0.005	< 0.005	3.27
Hauling	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	16.7	16.7	< 0.005	< 0.005	0.01	17.5

3.7. Linear, Paving (2031) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.12	1.25	2.06	< 0.005	0.05	—	0.05	0.05	—	0.05	—	316	316	0.01	< 0.005	—	317
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.22	0.36	< 0.005	0.01	—	0.01	0.01	—	0.01	—	55.6	55.6	< 0.005	< 0.005	—	55.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.04	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.20	9.20	< 0.005	< 0.005	—	9.23
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.09	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	28.3	28.3	< 0.005	< 0.005	< 0.005	28.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.33	5.33	< 0.005	< 0.005	0.01	5.40
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.88	0.88	< 0.005	< 0.005	< 0.005	0.89
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Linear, Paving (2032) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.11	1.21	2.05	< 0.005	0.05	—	0.05	0.04	—	0.04	—	316	316	0.01	< 0.005	—	317
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.11	1.21	2.05	< 0.005	0.05	—	0.05	0.04	—	0.04	—	316	316	0.01	< 0.005	—	317
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.02	0.02	0.22	0.37	< 0.005	0.01	—	0.01	0.01	—	0.01	—	57.4	57.4	< 0.005	< 0.005	—	57.6
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.04	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.51	9.51	< 0.005	< 0.005	—	9.54
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.15	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	32.7	32.7	< 0.005	< 0.005	0.06	32.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	27.9	27.9	< 0.005	< 0.005	< 0.005	28.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.43	5.43	< 0.005	< 0.005	< 0.005	5.50
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.90	0.90	< 0.005	< 0.005	< 0.005	0.91
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Linear, Grading & Excavation	Linear, Grading & Excavation	10/3/2031	4/2/2032	5.00	131	—
Linear, Drainage, Utilities, & Sub-Grade	Linear, Drainage, Utilities, & Sub-Grade	4/5/2032	10/4/2032	5.00	131	—
Linear, Paving	Linear, Paving	10/3/2031	4/2/2032	5.00	131	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Linear, Grading & Excavation	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Linear, Grading & Excavation	Excavators	Diesel	Average	2.00	8.00	36.0	0.38

Linear, Grading & Excavation	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Linear, Grading & Excavation	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Linear, Grading & Excavation	Rollers	Diesel	Average	1.00	8.00	36.0	0.38
Linear, Grading & Excavation	Off-Highway Trucks	Diesel	Average	1.00	8.00	376	0.38
Linear, Grading & Excavation	Signal Boards	Electric	Average	1.00	8.00	6.00	0.82
Linear, Drainage, Utilities, & Sub-Grade	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Linear, Drainage, Utilities, & Sub-Grade	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Linear, Drainage, Utilities, & Sub-Grade	Off-Highway Trucks	Diesel	Average	1.00	2.00	376	0.38
Linear, Drainage, Utilities, & Sub-Grade	Off-Highway Trucks	Diesel	Average	1.00	8.00	376	0.38
Linear, Drainage, Utilities, & Sub-Grade	Signal Boards	Electric	Average	1.00	8.00	6.00	0.82
Linear, Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Linear, Grading & Excavation	—	—	—	—
Linear, Grading & Excavation	Worker	26.0	18.5	LDA,LDT1,LDT2
Linear, Grading & Excavation	Vendor	2.00	10.2	HHDT,MHDT
Linear, Grading & Excavation	Hauling	11.0	50.0	HHDT
Linear, Grading & Excavation	Onsite truck	—	—	HHDT

Linear, Drainage, Utilities, & Sub-Grade	—	—	—	—
Linear, Drainage, Utilities, & Sub-Grade	Worker	20.0	18.5	LDA,LDT1,LDT2
Linear, Drainage, Utilities, & Sub-Grade	Vendor	2.00	10.2	HHDT,MHDT
Linear, Drainage, Utilities, & Sub-Grade	Hauling	2.00	50.0	HHDT
Linear, Drainage, Utilities, & Sub-Grade	Onsite truck	—	—	HHDT
Linear, Paving	—	—	—	—
Linear, Paving	Worker	2.50	18.5	LDA,LDT1,LDT2
Linear, Paving	Vendor	0.00	10.2	HHDT,MHDT
Linear, Paving	Hauling	0.00	20.0	HHDT
Linear, Paving	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Linear, Grading & Excavation	—	844	0.89	0.00	—

Linear, Drainage, Utilities, & Sub-Grade	—	—	0.89	0.00	—

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Road Construction	0.89	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2031	29.4	532	0.03	< 0.005
2032	58.7	532	0.03	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	26.6	annual days of extreme heat
Extreme Precipitation	0.85	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	3.15	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A

Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	0	0	0	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	1	1	2
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	1	1	1	2
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	93.6
AQ-PM	5.02
AQ-DPM	18.0
Drinking Water	29.5
Lead Risk Housing	45.9
Pesticides	0.00
Toxic Releases	1.73
Traffic	18.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	35.6
Impaired Water Bodies	0.00
Solid Waste	0.00
Sensitive Population	—
Asthma	79.3
Cardio-vascular	92.0
Low Birth Weights	78.6
Socioeconomic Factor Indicators	—
Education	78.1
Housing	97.2
Linguistic	59.4
Poverty	94.8
Unemployment	36.4

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	3.118182985
Employed	5.838573078
Median HI	5.376620044
Education	—
Bachelor's or higher	10.88156037
High school enrollment	5.492108302
Preschool enrollment	29.34684974
Transportation	—
Auto Access	41.51161299
Active commuting	52.8551264
Social	—
2-parent households	31.86192737
Voting	3.618632106
Neighborhood	—
Alcohol availability	59.24547671
Park access	11.34351341
Retail density	28.20479918
Supermarket access	61.01629668
Tree canopy	0.949570127
Housing	—
Homeownership	14.25638393
Housing habitability	23.64942897
Low-inc homeowner severe housing cost burden	90.52996279
Low-inc renter severe housing cost burden	8.610291287

Uncrowded housing	25.95919415
Health Outcomes	—
Insured adults	23.55960477
Arthritis	0.0
Asthma ER Admissions	19.1
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	2.2
Cognitively Disabled	23.2
Physically Disabled	5.2
Heart Attack ER Admissions	31.0
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	68.9
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0

Children	8.5
Elderly	88.9
English Speaking	47.1
Foreign-born	49.1
Outdoor Workers	36.8
Climate Change Adaptive Capacity	—
Impervious Surface Cover	81.3
Traffic Density	16.3
Traffic Access	23.0
Other Indices	—
Hardship	89.5
Other Decision Support	—
2016 Voting	6.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	37.0
Healthy Places Index Score for Project Location (b)	4.00
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	12 months of construction anticipated
Construction: Off-Road Equipment	Specific equipment provided by client
Construction: Trips and VMT	Worker trips and hauling trips provided by applicant

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5.18.1.1. Unmitigated
5.18.1. Biomass Cover Type
5.18.1.1. Unmitigated
5.18.2. Sequestration
5.18.2.1. Unmitigated
6. Climate Risk Detailed Report
6.1. Climate Risk Summary
6.2. Initial Climate Risk Scores
6.3. Adjusted Climate Risk Scores
6.4. Climate Risk Reduction Measures
7. Health and Equity Details
7.1. CalEnviroScreen 4.0 Scores
7.2. Healthy Places Index Scores
7.3. Overall Health & Equity Scores
7.4. Health & Equity Measures
7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	16694 - Area H
Construction Start Date	10/5/2032
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.30
Precipitation (days)	11.2
Location	67705 Monterey Rd, Desert Hot Springs, CA 92240, USA
County	Riverside-Salton Sea
City	Desert Hot Springs
Air District	South Coast AQMD
Air Basin	Salton Sea
TAZ	5640
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.30

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Road Construction	3.07	Mile	1.49	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.53	1.28	11.1	17.4	0.04	0.27	0.89	1.16	0.25	0.23	0.49	—	5,150	5,150	0.15	0.27	2.70	5,236
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.56	1.30	11.5	16.8	0.04	0.30	0.89	1.19	0.28	0.23	0.51	—	5,134	5,134	0.15	0.29	0.08	5,225
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.91	0.77	6.18	9.67	0.03	0.15	0.50	0.65	0.14	0.13	0.27	—	3,031	3,031	0.09	0.14	0.63	3,076
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.17	0.14	1.13	1.77	< 0.005	0.03	0.09	0.12	0.03	0.02	0.05	—	502	502	0.02	0.02	0.10	509

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2033	1.53	1.28	11.1	17.4	0.04	0.27	0.89	1.16	0.25	0.23	0.49	—	5,150	5,150	0.15	0.27	2.70	5,236

2034	0.85	0.72	3.92	7.62	0.02	0.11	0.37	0.47	0.10	0.09	0.19	—	2,676	2,676	0.09	0.07	0.77	2,699
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2032	1.56	1.30	11.5	16.8	0.04	0.30	0.89	1.19	0.28	0.23	0.51	—	5,134	5,134	0.15	0.29	0.08	5,225
2033	1.51	1.26	11.2	16.7	0.04	0.27	0.89	1.16	0.25	0.23	0.49	—	5,096	5,096	0.15	0.28	0.07	5,184
2034	0.84	0.71	3.96	7.17	0.02	0.11	0.37	0.47	0.10	0.09	0.19	—	2,639	2,639	0.09	0.07	0.02	2,661
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2032	0.27	0.22	1.97	2.94	0.01	0.05	0.15	0.20	0.05	0.04	0.09	—	888	888	0.03	0.05	0.23	904
2033	0.91	0.77	6.18	9.67	0.03	0.15	0.50	0.65	0.14	0.13	0.27	—	3,031	3,031	0.09	0.14	0.63	3,076
2034	0.32	0.27	1.49	2.76	0.01	0.04	0.14	0.18	0.04	0.03	0.07	—	1,002	1,002	0.03	0.03	0.13	1,011
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2032	0.05	0.04	0.36	0.54	< 0.005	0.01	0.03	0.04	0.01	0.01	0.02	—	147	147	< 0.005	0.01	0.04	150
2033	0.17	0.14	1.13	1.77	< 0.005	0.03	0.09	0.12	0.03	0.02	0.05	—	502	502	0.02	0.02	0.10	509
2034	0.06	0.05	0.27	0.50	< 0.005	0.01	0.03	0.03	0.01	0.01	0.01	—	166	166	0.01	< 0.005	0.02	167

3. Construction Emissions Details

3.1. Linear, Grading & Excavation (2032) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	1.30	1.09	8.46	13.5	0.03	0.21	—	0.21	0.20	—	0.20	—	2,899	2,899	0.12	0.02	—	2,909
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.22	0.19	1.46	2.33	< 0.005	0.04	—	0.04	0.03	—	0.03	—	499	499	0.02	< 0.005	—	501
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.27	0.43	< 0.005	0.01	—	0.01	0.01	—	0.01	—	82.7	82.7	< 0.005	< 0.005	—	82.9
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.06	0.08	0.87	0.00	0.00	0.34	0.34	0.00	0.08	0.08	—	290	290	< 0.005	0.01	0.02	294
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	52.9	52.9	< 0.005	0.01	< 0.005	55.1
Hauling	0.04	0.02	1.65	0.23	0.01	0.04	0.50	0.53	0.04	0.14	0.18	—	1,547	1,547	0.01	0.25	0.06	1,621
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.19	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	53.4	53.4	< 0.005	< 0.005	0.05	54.1
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.11	9.11	< 0.005	< 0.005	0.01	9.48
Hauling	0.01	< 0.005	0.28	0.04	< 0.005	0.01	0.09	0.09	0.01	0.02	0.03	—	266	266	< 0.005	0.04	0.17	279
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.84	8.84	< 0.005	< 0.005	0.01	8.96
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.51	1.51	< 0.005	< 0.005	< 0.005	1.57
Hauling	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	44.1	44.1	< 0.005	0.01	0.03	46.2

3.3. Linear, Grading & Excavation (2033) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.27	1.06	8.29	13.5	0.03	0.19	—	0.19	0.18	—	0.18	—	2,899	2,899	0.12	0.02	—	2,909
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.27	1.06	8.29	13.5	0.03	0.19	—	0.19	0.18	—	0.18	—	2,899	2,899	0.12	0.02	—	2,909
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.58	0.49	3.81	6.22	0.01	0.09	—	0.09	0.08	—	0.08	—	1,333	1,333	0.05	0.01	—	1,338
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.70	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	221	221	0.01	< 0.005	—	222
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.06	1.45	0.00	0.00	0.34	0.34	0.00	0.08	0.08	—	336	336	< 0.005	< 0.005	0.55	337
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	51.4	51.4	< 0.005	0.01	0.09	53.6
Hauling	0.04	0.02	1.51	0.22	0.01	0.04	0.50	0.53	0.04	0.14	0.18	—	1,515	1,515	0.01	0.23	2.01	1,587
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.07	0.82	0.00	0.00	0.34	0.34	0.00	0.08	0.08	—	287	287	< 0.005	0.01	0.01	290
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	51.4	51.4	< 0.005	0.01	< 0.005	53.6
Hauling	0.04	0.02	1.63	0.23	0.01	0.04	0.50	0.53	0.04	0.14	0.18	—	1,516	1,516	0.01	0.23	0.05	1,586
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.47	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	141	141	< 0.005	< 0.005	0.11	141
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	23.6	23.6	< 0.005	< 0.005	0.02	24.6
Hauling	0.02	0.01	0.73	0.10	0.01	0.02	0.23	0.24	0.02	0.06	0.08	—	697	697	0.01	0.11	0.40	730
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.09	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	23.3	23.3	< 0.005	< 0.005	0.02	23.4
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.91	3.91	< 0.005	< 0.005	< 0.005	4.08
Hauling	< 0.005	< 0.005	0.13	0.02	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	115	115	< 0.005	0.02	0.07	121

3.5. Linear, Drainage, Utilities, & Sub-Grade (2033) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.80	0.67	3.69	6.53	0.02	0.11	—	0.11	0.10	—	0.10	—	2,100	2,100	0.09	0.02	—	2,107
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.80	0.67	3.69	6.53	0.02	0.11	—	0.11	0.10	—	0.10	—	2,100	2,100	0.09	0.02	—	2,107
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.20	0.17	0.94	1.66	< 0.005	0.03	—	0.03	0.02	—	0.02	—	534	534	0.02	< 0.005	—	536
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.17	0.30	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	88.4	88.4	< 0.005	< 0.005	—	88.8

Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.04	1.11	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	258	258	< 0.005	< 0.005	0.42	259
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	51.4	51.4	< 0.005	0.01	0.09	53.6
Hauling	0.01	< 0.005	0.28	0.04	< 0.005	0.01	0.09	0.10	0.01	0.03	0.03	—	276	276	< 0.005	0.04	0.37	289
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.05	0.63	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	220	220	< 0.005	0.01	0.01	223
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	51.4	51.4	< 0.005	0.01	< 0.005	53.6
Hauling	0.01	< 0.005	0.30	0.04	< 0.005	0.01	0.09	0.10	0.01	0.03	0.03	—	276	276	< 0.005	0.04	0.01	288
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.20	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	59.9	59.9	< 0.005	< 0.005	0.05	60.0
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.1	13.1	< 0.005	< 0.005	0.01	13.6
Hauling	< 0.005	< 0.005	0.07	0.01	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	70.1	70.1	< 0.005	0.01	0.04	73.4
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.91	9.91	< 0.005	< 0.005	0.01	9.94
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.16	2.16	< 0.005	< 0.005	< 0.005	2.26
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.6	11.6	< 0.005	< 0.005	0.01	12.1

3.7. Linear, Drainage, Utilities, & Sub-Grade (2034) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.79	0.66	3.56	6.51	0.02	0.10	—	0.10	0.09	—	0.09	—	2,100	2,100	0.09	0.02	—	2,107
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.79	0.66	3.56	6.51	0.02	0.10	—	0.10	0.09	—	0.09	—	2,100	2,100	0.09	0.02	—	2,107
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.30	0.25	1.35	2.46	0.01	0.04	—	0.04	0.03	—	0.03	—	793	793	0.03	0.01	—	796
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.05	0.25	0.45	< 0.005	0.01	—	0.01	0.01	—	0.01	—	131	131	0.01	< 0.005	—	132
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.04	1.05	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	255	255	< 0.005	< 0.005	0.37	256
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	49.9	49.9	< 0.005	0.01	0.08	52.0
Hauling	0.01	< 0.005	0.27	0.04	< 0.005	0.01	0.09	0.10	0.01	0.03	0.03	—	271	271	< 0.005	0.04	0.32	284
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.05	0.60	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	218	218	< 0.005	< 0.005	0.01	218
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	50.0	50.0	< 0.005	0.01	< 0.005	52.0
Hauling	0.01	< 0.005	0.29	0.04	< 0.005	0.01	0.09	0.10	0.01	0.03	0.03	—	271	271	< 0.005	0.04	0.01	283
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.28	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	87.8	87.8	< 0.005	< 0.005	0.06	88.1
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	18.9	18.9	< 0.005	< 0.005	0.01	19.6
Hauling	< 0.005	< 0.005	0.11	0.01	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	102	102	< 0.005	0.02	0.05	107
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	14.5	14.5	< 0.005	< 0.005	0.01	14.6

Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.12	3.12	< 0.005	< 0.005	< 0.005	3.25
Hauling	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	16.9	16.9	< 0.005	< 0.005	0.01	17.7

3.9. Linear, Paving (2032) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.11	1.21	2.05	< 0.005	0.05	—	0.05	0.04	—	0.04	—	316	316	0.01	< 0.005	—	317
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.21	0.35	< 0.005	0.01	—	0.01	0.01	—	0.01	—	54.3	54.3	< 0.005	< 0.005	—	54.5
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.04	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.00	9.00	< 0.005	< 0.005	—	9.03
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	27.9	27.9	< 0.005	< 0.005	< 0.005	28.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.14	5.14	< 0.005	< 0.005	< 0.005	5.20
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.85	0.85	< 0.005	< 0.005	< 0.005	0.86
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Linear, Paving (2033) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.11	1.18	2.05	< 0.005	0.04	—	0.04	0.04	—	0.04	—	316	316	0.01	< 0.005	—	317

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.11	1.18	2.05	< 0.005	0.04	—	0.04	0.04	—	0.04	—	316	316	0.01	< 0.005	—	317
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.54	0.94	< 0.005	0.02	—	0.02	0.02	—	0.02	—	145	145	0.01	< 0.005	—	146
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.10	0.17	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	24.0	24.0	< 0.005	< 0.005	—	24.1
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.14	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	32.3	32.3	< 0.005	< 0.005	0.05	32.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	27.6	27.6	< 0.005	< 0.005	< 0.005	27.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	13.5	13.5	< 0.005	< 0.005	0.01	13.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.24	2.24	< 0.005	< 0.005	< 0.005	2.25
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Linear, Grading & Excavation	Linear, Grading & Excavation	10/5/2032	8/23/2033	5.00	231	—
Linear, Drainage, Utilities, & Sub-Grade	Linear, Drainage, Utilities, & Sub-Grade	8/24/2033	7/12/2034	5.00	231	—

Linear, Paving	Linear, Paving	10/5/2032	8/23/2033	5.00	231	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Linear, Grading & Excavation	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Linear, Grading & Excavation	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Linear, Grading & Excavation	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Linear, Grading & Excavation	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Linear, Grading & Excavation	Rollers	Diesel	Average	1.00	8.00	36.0	0.38
Linear, Grading & Excavation	Off-Highway Trucks	Diesel	Average	1.00	8.00	376	0.38
Linear, Grading & Excavation	Signal Boards	Electric	Average	1.00	8.00	6.00	0.82
Linear, Drainage, Utilities, & Sub-Grade	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Linear, Drainage, Utilities, & Sub-Grade	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Linear, Drainage, Utilities, & Sub-Grade	Off-Highway Trucks	Diesel	Average	1.00	2.00	376	0.38
Linear, Drainage, Utilities, & Sub-Grade	Off-Highway Trucks	Diesel	Average	1.00	8.00	376	0.38
Linear, Drainage, Utilities, & Sub-Grade	Signal Boards	Electric	Average	1.00	8.00	6.00	0.82
Linear, Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Linear, Grading & Excavation	—	—	—	—
Linear, Grading & Excavation	Worker	26.0	18.5	LDA,LDT1,LDT2
Linear, Grading & Excavation	Vendor	2.00	10.2	HHDT,MHDT
Linear, Grading & Excavation	Hauling	11.0	50.0	HHDT
Linear, Grading & Excavation	Onsite truck	—	—	HHDT
Linear, Drainage, Utilities, & Sub-Grade	—	—	—	—
Linear, Drainage, Utilities, & Sub-Grade	Worker	20.0	18.5	LDA,LDT1,LDT2
Linear, Drainage, Utilities, & Sub-Grade	Vendor	2.00	10.2	HHDT,MHDT
Linear, Drainage, Utilities, & Sub-Grade	Hauling	2.00	50.0	HHDT
Linear, Drainage, Utilities, & Sub-Grade	Onsite truck	—	—	HHDT
Linear, Paving	—	—	—	—
Linear, Paving	Worker	2.50	18.5	LDA,LDT1,LDT2
Linear, Paving	Vendor	0.00	10.2	HHDT,MHDT
Linear, Paving	Hauling	0.00	20.0	HHDT
Linear, Paving	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Linear, Grading & Excavation	—	1,409	1.49	0.00	—
Linear, Drainage, Utilities, & Sub-Grade	—	—	1.49	0.00	—

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Road Construction	1.49	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2032	29.4	532	0.03	< 0.005
2033	58.7	532	0.03	< 0.005
2034	29.4	532	0.03	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	26.6	annual days of extreme heat
Extreme Precipitation	0.85	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	3.15	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	0	0	0	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	1	1	2
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A

Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	1	1	1	2
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	93.6
AQ-PM	4.75
AQ-DPM	13.0
Drinking Water	40.3
Lead Risk Housing	28.4
Pesticides	0.00
Toxic Releases	1.83
Traffic	11.9
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00

Haz Waste Facilities/Generators	19.2
Impaired Water Bodies	0.00
Solid Waste	24.8
Sensitive Population	—
Asthma	79.3
Cardio-vascular	92.0
Low Birth Weights	64.5
Socioeconomic Factor Indicators	—
Education	78.5
Housing	60.6
Linguistic	71.7
Poverty	79.1
Unemployment	2.29

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	15.28294623
Employed	30.46323624
Median HI	14.97497754
Education	—
Bachelor's or higher	19.11972283
High school enrollment	100
Preschool enrollment	29.19286539
Transportation	—
Auto Access	50.17323239
Active commuting	12.04927499

Social	—
2-parent households	47.56833055
Voting	13.71743873
Neighborhood	—
Alcohol availability	75.46516104
Park access	12.65238034
Retail density	16.27101245
Supermarket access	18.54228153
Tree canopy	1.93763634
Housing	—
Homeownership	39.81778519
Housing habitability	39.31733607
Low-inc homeowner severe housing cost burden	64.37828821
Low-inc renter severe housing cost burden	29.35968177
Uncrowded housing	36.78942641
Health Outcomes	—
Insured adults	21.00603105
Arthritis	0.0
Asthma ER Admissions	19.5
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	45.8
Cognitively Disabled	52.2
Physically Disabled	26.6

Heart Attack ER Admissions	31.9
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	25.4
Elderly	75.4
English Speaking	26.3
Foreign-born	51.7
Outdoor Workers	17.3
Climate Change Adaptive Capacity	—
Impervious Surface Cover	83.6
Traffic Density	19.3
Traffic Access	23.0
Other Indices	—
Hardship	68.7
Other Decision Support	—
2016 Voting	22.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	20.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	22 months of construction anticipated
Construction: Off-Road Equipment	Specific equipment provided by client
Construction: Trips and VMT	Worker trips and hauling trips provided by applicant

16694 - Area I Detailed Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	16694 - Area I
Construction Start Date	7/13/2034
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.30
Precipitation (days)	11.2
Location	13211 Quinta Way, Desert Hot Springs, CA 92240, USA
County	Riverside-Salton Sea
City	Desert Hot Springs
Air District	South Coast AQMD
Air Basin	Salton Sea
TAZ	5640
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.30

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Road Construction	2.73	Mile	1.32	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.49	1.25	10.9	17.3	0.04	0.26	0.89	1.15	0.24	0.23	0.47	—	5,117	5,117	0.15	0.27	2.39	5,203
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.48	1.24	11.0	16.6	0.04	0.26	0.89	1.15	0.24	0.23	0.47	—	5,064	5,064	0.15	0.27	0.06	5,148
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.74	0.63	4.38	7.45	0.02	0.10	0.38	0.49	0.10	0.10	0.19	—	2,460	2,460	0.08	0.10	0.36	2,491
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.14	0.11	0.80	1.36	< 0.005	0.02	0.07	0.09	0.02	0.02	0.04	—	407	407	0.01	0.02	0.06	412

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2034	1.49	1.25	10.9	17.3	0.04	0.26	0.89	1.15	0.24	0.23	0.47	—	5,117	5,117	0.15	0.27	2.39	5,203

2033	1.46	1.22	10.7	17.2	0.04	0.23	0.89	1.12	0.22	0.23	0.45	—	5,089	5,089	0.15	0.27	2.11	5,175
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2034	1.48	1.24	11.0	16.6	0.04	0.26	0.89	1.15	0.24	0.23	0.47	—	5,064	5,064	0.15	0.27	0.06	5,148
2035	1.44	1.21	10.8	16.6	0.04	0.23	0.89	1.12	0.22	0.23	0.45	—	5,037	5,037	0.15	0.27	0.05	5,121
2036	0.82	0.70	3.68	7.09	0.02	0.09	0.37	0.46	0.08	0.09	0.18	—	2,624	2,624	0.09	0.07	0.02	2,647
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2034	0.50	0.42	3.69	5.67	0.01	0.09	0.30	0.38	0.08	0.08	0.16	—	1,712	1,712	0.05	0.09	0.35	1,740
2035	0.74	0.63	4.38	7.45	0.02	0.10	0.38	0.49	0.10	0.10	0.19	—	2,460	2,460	0.08	0.10	0.36	2,491
2036	0.08	0.07	0.37	0.73	< 0.005	0.01	0.04	0.05	0.01	0.01	0.02	—	269	269	0.01	0.01	0.03	271
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2034	0.09	0.08	0.67	1.03	< 0.005	0.02	0.05	0.07	0.01	0.01	0.03	—	283	283	0.01	0.01	0.06	288
2035	0.14	0.11	0.80	1.36	< 0.005	0.02	0.07	0.09	0.02	0.02	0.04	—	407	407	0.01	0.02	0.06	412
2036	0.02	0.01	0.07	0.13	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	44.5	44.5	< 0.005	< 0.005	< 0.005	44.8

3. Construction Emissions Details

3.1. Linear, Grading & Excavation (2034) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.25	1.05	8.12	13.5	0.03	0.18	—	0.18	0.17	—	0.17	—	2,899	2,899	0.12	0.02	—	2,909

Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.25	1.05	8.12	13.5	0.03	0.18	—	0.18	0.17	—	0.17	—	2,899	2,899	0.12	0.02	—	2,909
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.42	0.35	2.73	4.54	0.01	0.06	—	0.06	0.06	—	0.06	—	976	976	0.04	0.01	—	979
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.06	0.50	0.83	< 0.005	0.01	—	0.01	0.01	—	0.01	—	162	162	0.01	< 0.005	—	162

Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.06	1.37	0.00	0.00	0.34	0.34	0.00	0.08	0.08	—	332	332	< 0.005	< 0.005	0.49	333
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	49.9	49.9	< 0.005	0.01	0.08	52.0
Hauling	0.04	0.02	1.49	0.21	0.01	0.04	0.50	0.53	0.04	0.14	0.18	—	1,488	1,488	0.01	0.23	1.79	1,560
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.07	0.78	0.00	0.00	0.34	0.34	0.00	0.08	0.08	—	283	283	< 0.005	< 0.005	0.01	284
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	50.0	50.0	< 0.005	0.01	< 0.005	52.0
Hauling	0.04	0.02	1.60	0.22	0.01	0.04	0.50	0.53	0.04	0.14	0.18	—	1,489	1,489	0.01	0.23	0.05	1,559
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.33	0.00	0.00	0.11	0.11	0.00	0.03	0.03	—	102	102	< 0.005	< 0.005	0.07	102
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	16.8	16.8	< 0.005	< 0.005	0.01	17.5
Hauling	0.01	0.01	0.53	0.07	< 0.005	0.01	0.17	0.18	0.01	0.05	0.06	—	501	501	< 0.005	0.08	0.26	525
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.06	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	16.8	16.8	< 0.005	< 0.005	0.01	16.9
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.78	2.78	< 0.005	< 0.005	< 0.005	2.90
Hauling	< 0.005	< 0.005	0.10	0.01	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	83.0	83.0	< 0.005	0.01	0.04	86.9

3.3. Linear, Grading & Excavation (2035) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.22	1.02	7.96	13.5	0.03	0.16	—	0.16	0.15	—	0.15	—	2,899	2,899	0.12	0.02	—	2,909
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.22	1.02	7.96	13.5	0.03	0.16	—	0.16	0.15	—	0.15	—	2,899	2,899	0.12	0.02	—	2,909
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.29	0.24	1.90	3.22	0.01	0.04	—	0.04	0.04	—	0.04	—	692	692	0.03	0.01	—	695
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.35	0.59	< 0.005	0.01	—	0.01	0.01	—	0.01	—	115	115	< 0.005	< 0.005	—	115
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.05	1.30	0.00	0.00	0.34	0.34	0.00	0.08	0.08	—	328	328	< 0.005	< 0.005	0.42	329
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	48.6	48.6	< 0.005	0.01	0.07	50.6
Hauling	0.04	0.02	1.48	0.21	0.01	0.04	0.50	0.53	0.04	0.14	0.18	—	1,466	1,466	0.01	0.23	1.58	1,537
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.05	0.73	0.00	0.00	0.34	0.34	0.00	0.08	0.08	—	280	280	< 0.005	< 0.005	0.01	281
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	48.6	48.6	< 0.005	0.01	< 0.005	50.6
Hauling	0.04	0.02	1.58	0.22	0.01	0.04	0.50	0.53	0.04	0.14	0.18	—	1,467	1,467	0.01	0.23	0.04	1,537
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.22	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	71.4	71.4	< 0.005	< 0.005	0.04	71.6
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.6	11.6	< 0.005	< 0.005	0.01	12.1
Hauling	0.01	0.01	0.37	0.05	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	350	350	< 0.005	0.06	0.16	367
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.8	11.8	< 0.005	< 0.005	0.01	11.8

Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.92	1.92	< 0.005	< 0.005	< 0.005	2.00
Hauling	< 0.005	< 0.005	0.07	0.01	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	58.0	58.0	< 0.005	0.01	0.03	60.7

3.5. Linear, Drainage, Utilities, & Sub-Grade (2035) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.78	0.66	3.45	6.50	0.02	0.09	—	0.09	0.09	—	0.09	—	2,100	2,100	0.09	0.02	—	2,107
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.78	0.66	3.45	6.50	0.02	0.09	—	0.09	0.09	—	0.09	—	2,100	2,100	0.09	0.02	—	2,107
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.37	0.31	1.63	3.08	0.01	0.04	—	0.04	0.04	—	0.04	—	994	994	0.04	0.01	—	998
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.30	0.56	< 0.005	0.01	—	0.01	0.01	—	0.01	—	165	165	0.01	< 0.005	—	165
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.04	1.00	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	252	252	< 0.005	< 0.005	0.33	253
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	48.6	48.6	< 0.005	0.01	0.07	50.6
Hauling	0.01	< 0.005	0.27	0.04	< 0.005	0.01	0.09	0.10	0.01	0.03	0.03	—	267	267	< 0.005	0.04	0.29	280
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.04	0.56	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	215	215	< 0.005	< 0.005	0.01	216
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	48.6	48.6	< 0.005	0.01	< 0.005	50.6
Hauling	0.01	< 0.005	0.29	0.04	< 0.005	0.01	0.09	0.10	0.01	0.03	0.03	—	267	267	< 0.005	0.04	0.01	279
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.34	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	109	109	< 0.005	< 0.005	0.07	109

Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	23.0	23.0	< 0.005	< 0.005	0.01	24.0
Hauling	< 0.005	< 0.005	0.13	0.02	< 0.005	< 0.005	0.04	0.05	< 0.005	0.01	0.02	—	126	126	< 0.005	0.02	0.06	132
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.06	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	18.0	18.0	< 0.005	< 0.005	0.01	18.1
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.81	3.81	< 0.005	< 0.005	< 0.005	3.97
Hauling	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	20.9	20.9	< 0.005	< 0.005	0.01	21.9

3.7. Linear, Drainage, Utilities, & Sub-Grade (2036) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.77	0.65	3.31	6.49	0.02	0.08	—	0.08	0.08	—	0.08	—	2,100	2,100	0.09	0.02	—	2,107
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.34	0.66	< 0.005	0.01	—	0.01	0.01	—	0.01	—	214	214	0.01	< 0.005	—	214

Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.12	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	35.4	35.4	< 0.005	< 0.005	—	35.5
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.04	0.54	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	213	213	< 0.005	< 0.005	0.01	214
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	47.4	47.4	< 0.005	0.01	< 0.005	49.4
Hauling	0.01	< 0.005	0.28	0.04	< 0.005	0.01	0.09	0.10	0.01	0.03	0.03	—	263	263	< 0.005	0.04	0.01	276
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.07	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	23.2	23.2	< 0.005	< 0.005	0.01	23.2
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.82	4.82	< 0.005	< 0.005	< 0.005	5.03
Hauling	< 0.005	< 0.005	0.03	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	26.8	26.8	< 0.005	< 0.005	0.01	28.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.84	3.84	< 0.005	< 0.005	< 0.005	3.85

Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.80	0.80	< 0.005	< 0.005	< 0.005	0.83
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.43	4.43	< 0.005	< 0.005	< 0.005	4.65

3.9. Linear, Paving (2034) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.11	1.16	2.05	< 0.005	0.04	—	0.04	0.04	—	0.04	—	316	316	0.01	< 0.005	—	317
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.11	1.16	2.05	< 0.005	0.04	—	0.04	0.04	—	0.04	—	316	316	0.01	< 0.005	—	317
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.39	0.69	< 0.005	0.01	—	0.01	0.01	—	0.01	—	106	106	< 0.005	< 0.005	—	107
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.01	0.01	0.07	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	17.6	17.6	< 0.005	< 0.005	—	17.6
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.13	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	31.9	31.9	< 0.005	< 0.005	0.05	32.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.07	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	27.2	27.2	< 0.005	< 0.005	< 0.005	27.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.78	9.78	< 0.005	< 0.005	0.01	9.81
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.62	1.62	< 0.005	< 0.005	< 0.005	1.62
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Linear, Paving (2035) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.10	1.11	2.05	< 0.005	0.03	—	0.03	0.03	—	0.03	—	316	316	0.01	< 0.005	—	317
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.10	1.11	2.05	< 0.005	0.03	—	0.03	0.03	—	0.03	—	316	316	0.01	< 0.005	—	317
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.27	0.49	< 0.005	0.01	—	0.01	0.01	—	0.01	—	75.3	75.3	< 0.005	< 0.005	—	75.6
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	< 0.005	0.05	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12.5	12.5	< 0.005	< 0.005	—	12.5
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.01	0.01	0.01	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	31.5	31.5	< 0.005	< 0.005	0.04	31.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.07	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	26.9	26.9	< 0.005	< 0.005	< 0.005	27.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.86	6.86	< 0.005	< 0.005	< 0.005	6.88
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.14	1.14	< 0.005	< 0.005	< 0.005	1.14
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Linear, Grading & Excavation	Linear, Grading & Excavation	7/13/2034	5/2/2035	5.00	210	—
Linear, Drainage, Utilities, & Sub-Grade	Linear, Drainage, Utilities, & Sub-Grade	5/4/2035	2/21/2036	5.00	210	—
Linear, Paving	Linear, Paving	7/13/2034	5/2/2035	5.00	210	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Linear, Grading & Excavation	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Linear, Grading & Excavation	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Linear, Grading & Excavation	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Linear, Grading & Excavation	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Linear, Grading & Excavation	Rollers	Diesel	Average	1.00	8.00	36.0	0.38
Linear, Grading & Excavation	Off-Highway Trucks	Diesel	Average	1.00	8.00	376	0.38
Linear, Grading & Excavation	Signal Boards	Electric	Average	1.00	8.00	6.00	0.82
Linear, Drainage, Utilities, & Sub-Grade	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Linear, Drainage, Utilities, & Sub-Grade	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Linear, Drainage, Utilities, & Sub-Grade	Off-Highway Trucks	Diesel	Average	1.00	2.00	376	0.38

Linear, Drainage, Utilities, & Sub-Grade	Off-Highway Trucks	Diesel	Average	1.00	8.00	376	0.38
Linear, Drainage, Utilities, & Sub-Grade	Signal Boards	Electric	Average	1.00	8.00	6.00	0.82
Linear, Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Linear, Grading & Excavation	—	—	—	—
Linear, Grading & Excavation	Worker	26.0	18.5	LDA,LDT1,LDT2
Linear, Grading & Excavation	Vendor	2.00	10.2	HHDT,MHDT
Linear, Grading & Excavation	Hauling	11.0	50.0	HHDT
Linear, Grading & Excavation	Onsite truck	—	—	HHDT
Linear, Drainage, Utilities, & Sub-Grade	—	—	—	—
Linear, Drainage, Utilities, & Sub-Grade	Worker	20.0	18.5	LDA,LDT1,LDT2
Linear, Drainage, Utilities, & Sub-Grade	Vendor	2.00	10.2	HHDT,MHDT
Linear, Drainage, Utilities, & Sub-Grade	Hauling	2.00	50.0	HHDT
Linear, Drainage, Utilities, & Sub-Grade	Onsite truck	—	—	HHDT
Linear, Paving	—	—	—	—
Linear, Paving	Worker	2.50	18.5	LDA,LDT1,LDT2
Linear, Paving	Vendor	0.00	10.2	HHDT,MHDT
Linear, Paving	Hauling	0.00	20.0	HHDT
Linear, Paving	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Linear, Grading & Excavation	—	1,253	1.32	0.00	—
Linear, Drainage, Utilities, & Sub-Grade	—	—	1.32	0.00	—

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Road Construction	1.32	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2034	29.4	532	0.03	< 0.005
2035	58.7	532	0.03	< 0.005
2036	29.4	532	0.03	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	26.6	annual days of extreme heat

Extreme Precipitation	0.85	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	3.15	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	0	0	0	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score

Temperature and Extreme Heat	1	1	1	2
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	1	1	1	2
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	93.6
AQ-PM	5.02
AQ-DPM	18.0
Drinking Water	29.5
Lead Risk Housing	45.9
Pesticides	0.00
Toxic Releases	1.73
Traffic	18.0

Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	35.6
Impaired Water Bodies	0.00
Solid Waste	0.00
Sensitive Population	—
Asthma	79.3
Cardio-vascular	92.0
Low Birth Weights	78.6
Socioeconomic Factor Indicators	—
Education	78.1
Housing	97.2
Linguistic	59.4
Poverty	94.8
Unemployment	36.4

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	3.118182985
Employed	5.838573078
Median HI	5.376620044
Education	—
Bachelor's or higher	10.88156037
High school enrollment	5.492108302
Preschool enrollment	29.34684974

Transportation	—
Auto Access	41.51161299
Active commuting	52.8551264
Social	—
2-parent households	31.86192737
Voting	3.618632106
Neighborhood	—
Alcohol availability	59.24547671
Park access	11.34351341
Retail density	28.20479918
Supermarket access	61.01629668
Tree canopy	0.949570127
Housing	—
Homeownership	14.25638393
Housing habitability	23.64942897
Low-inc homeowner severe housing cost burden	90.52996279
Low-inc renter severe housing cost burden	8.610291287
Uncrowded housing	25.95919415
Health Outcomes	—
Insured adults	23.55960477
Arthritis	0.0
Asthma ER Admissions	19.1
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0

Life Expectancy at Birth	2.2
Cognitively Disabled	23.2
Physically Disabled	5.2
Heart Attack ER Admissions	31.0
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	68.9
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	8.5
Elderly	88.9
English Speaking	47.1
Foreign-born	49.1
Outdoor Workers	36.8
Climate Change Adaptive Capacity	—
Impervious Surface Cover	81.3
Traffic Density	16.3
Traffic Access	23.0
Other Indices	—
Hardship	89.5

Other Decision Support	—
2016 Voting	6.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	37.0
Healthy Places Index Score for Project Location (b)	4.00
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	20 months of construction anticipated
Construction: Off-Road Equipment	Specific equipment provided by client
Construction: Trips and VMT	Worker trips and hauling trips provided by applicant

16694 - Area J-2 Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	16694 - Area J-2
Construction Start Date	2/22/2036
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.30
Precipitation (days)	11.2
Location	12695 Avenida Alta Loma, Desert Hot Springs, CA 92240, USA
County	Riverside-Salton Sea
City	Desert Hot Springs
Air District	South Coast AQMD
Air Basin	Salton Sea
TAZ	5640
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.30

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Road Construction	2.97	Mile	1.44	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.43	1.20	10.4	17.1	0.04	0.21	0.89	1.10	0.20	0.23	0.43	—	5,065	5,065	0.15	0.27	1.85	5,150
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.42	1.19	10.5	16.5	0.04	0.21	0.89	1.10	0.20	0.23	0.43	—	5,014	5,014	0.15	0.27	0.05	5,097
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.87	0.73	6.45	10.3	0.03	0.13	0.54	0.67	0.12	0.14	0.26	—	3,093	3,093	0.09	0.16	0.49	3,145
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.16	0.13	1.18	1.87	< 0.005	0.02	0.10	0.12	0.02	0.03	0.05	—	512	512	0.02	0.03	0.08	521

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2036	1.43	1.20	10.4	17.1	0.04	0.21	0.89	1.10	0.20	0.23	0.43	—	5,065	5,065	0.15	0.27	1.85	5,150

2037	0.82	0.69	3.52	7.45	0.02	0.08	0.37	0.45	0.08	0.09	0.17	—	2,654	2,654	0.09	0.06	0.52	2,676
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2036	1.42	1.19	10.5	16.5	0.04	0.21	0.89	1.10	0.20	0.23	0.43	—	5,014	5,014	0.15	0.27	0.05	5,097
2037	1.39	1.17	10.3	16.5	0.04	0.19	0.89	1.08	0.18	0.23	0.41	—	4,994	4,994	0.15	0.26	0.04	5,074
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2036	0.87	0.73	6.45	10.3	0.03	0.13	0.54	0.67	0.12	0.14	0.26	—	3,093	3,093	0.09	0.16	0.49	3,145
2037	0.54	0.46	2.42	4.84	0.01	0.06	0.25	0.30	0.05	0.06	0.11	—	1,754	1,754	0.06	0.05	0.15	1,769
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2036	0.16	0.13	1.18	1.87	< 0.005	0.02	0.10	0.12	0.02	0.03	0.05	—	512	512	0.02	0.03	0.08	521
2037	0.10	0.08	0.44	0.88	< 0.005	0.01	0.05	0.06	0.01	0.01	0.02	—	290	290	0.01	0.01	0.03	293

3. Construction Emissions Details

3.1. Linear, Grading & Excavation (2036) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.20	1.01	7.77	13.5	0.03	0.14	—	0.14	0.13	—	0.13	—	2,899	2,899	0.12	0.02	—	2,909
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.20	1.01	7.77	13.5	0.03	0.14	—	0.14	0.13	—	0.13	—	2,899	2,899	0.12	0.02	—	2,909
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.74	0.62	4.77	8.27	0.02	0.09	—	0.09	0.08	—	0.08	—	1,781	1,781	0.07	0.01	—	1,788
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.11	0.87	1.51	< 0.005	0.02	—	0.02	0.01	—	0.01	—	295	295	0.01	< 0.005	—	296
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.04	1.24	0.00	0.00	0.34	0.34	0.00	0.08	0.08	—	325	325	< 0.005	< 0.005	0.37	326
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	47.4	47.4	< 0.005	0.01	0.06	49.4
Hauling	0.04	0.02	1.46	0.21	0.01	0.04	0.50	0.53	0.04	0.14	0.18	—	1,447	1,447	0.01	0.23	1.39	1,518
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.05	0.70	0.00	0.00	0.34	0.34	0.00	0.08	0.08	—	277	277	< 0.005	< 0.005	0.01	278
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	47.4	47.4	< 0.005	0.01	< 0.005	49.4
Hauling	0.04	0.02	1.56	0.22	0.01	0.04	0.50	0.53	0.04	0.14	0.18	—	1,448	1,448	0.01	0.23	0.04	1,518
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.54	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	182	182	< 0.005	< 0.005	0.10	182
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	29.1	29.1	< 0.005	< 0.005	0.01	30.4
Hauling	0.02	0.01	0.95	0.13	0.01	0.02	0.30	0.33	0.02	0.09	0.11	—	889	889	0.01	0.14	0.37	933
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.10	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	30.1	30.1	< 0.005	< 0.005	0.02	30.2
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.82	4.82	< 0.005	< 0.005	< 0.005	5.03
Hauling	< 0.005	< 0.005	0.17	0.02	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	147	147	< 0.005	0.02	0.06	154

3.3. Linear, Grading & Excavation (2037) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.18	0.99	7.58	13.4	0.03	0.13	—	0.13	0.12	—	0.12	—	2,899	2,899	0.12	0.02	—	2,909
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.13	0.24	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	51.1	51.1	< 0.005	< 0.005	—	51.2
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.45	8.45	< 0.005	< 0.005	—	8.48
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.04	0.68	0.00	0.00	0.34	0.34	0.00	0.08	0.08	—	275	275	< 0.005	< 0.005	0.01	275
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	46.3	46.3	< 0.005	0.01	< 0.005	48.2
Hauling	0.04	0.02	1.55	0.22	0.01	0.04	0.50	0.53	0.04	0.14	0.18	—	1,432	1,432	0.01	0.22	0.03	1,498
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.17	5.17	< 0.005	< 0.005	< 0.005	5.18
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.82	0.82	< 0.005	< 0.005	< 0.005	0.85
Hauling	< 0.005	< 0.005	0.03	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	25.2	25.2	< 0.005	< 0.005	0.01	26.4
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.86	0.86	< 0.005	< 0.005	< 0.005	0.86
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.14
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.17	4.17	< 0.005	< 0.005	< 0.005	4.37

3.5. Linear, Drainage, Utilities, & Sub-Grade (2037) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.76	0.64	3.18	6.48	0.02	0.08	—	0.08	0.07	—	0.07	—	2,100	2,100	0.09	0.02	—	2,107

Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.76	0.64	3.18	6.48	0.02	0.08	—	0.08	0.07	—	0.07	—	2,100	2,100	0.09	0.02	—	2,107
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.48	0.40	2.01	4.10	0.01	0.05	—	0.05	0.04	—	0.04	—	1,329	1,329	0.05	0.01	—	1,334
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.07	0.37	0.75	< 0.005	0.01	—	0.01	0.01	—	0.01	—	220	220	0.01	< 0.005	—	221

Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.03	0.92	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	248	248	< 0.005	< 0.005	0.25	248
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	46.3	46.3	< 0.005	0.01	0.05	48.2
Hauling	0.01	< 0.005	0.26	0.04	< 0.005	0.01	0.09	0.10	0.01	0.03	0.03	—	260	260	< 0.005	0.04	0.22	273
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.52	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	211	211	< 0.005	< 0.005	0.01	212
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	46.3	46.3	< 0.005	0.01	< 0.005	48.2
Hauling	0.01	< 0.005	0.28	0.04	< 0.005	0.01	0.09	0.10	0.01	0.03	0.03	—	260	260	< 0.005	0.04	0.01	272
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.41	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	143	143	< 0.005	< 0.005	0.07	143
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	29.3	29.3	< 0.005	< 0.005	0.01	30.5
Hauling	< 0.005	< 0.005	0.18	0.02	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	165	165	< 0.005	0.03	0.06	172
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.07	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	23.6	23.6	< 0.005	< 0.005	0.01	23.7
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.85	4.85	< 0.005	< 0.005	< 0.005	5.05
Hauling	< 0.005	< 0.005	0.03	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	27.3	27.3	< 0.005	< 0.005	0.01	28.5

3.7. Linear, Paving (2036) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.10	1.08	2.04	< 0.005	0.03	—	0.03	0.03	—	0.03	—	316	316	0.01	< 0.005	—	317
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.10	1.08	2.04	< 0.005	0.03	—	0.03	0.03	—	0.03	—	316	316	0.01	< 0.005	—	317
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.66	1.25	< 0.005	0.02	—	0.02	0.02	—	0.02	—	194	194	0.01	< 0.005	—	195
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.12	0.23	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	32.1	32.1	< 0.005	< 0.005	—	32.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	31.2	31.2	< 0.005	< 0.005	0.04	31.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.07	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	26.7	26.7	< 0.005	< 0.005	< 0.005	26.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	17.5	17.5	< 0.005	< 0.005	0.01	17.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.90	2.90	< 0.005	< 0.005	< 0.005	2.90
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Linear, Paving (2037) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	1.04	2.04	< 0.005	0.02	—	0.02	0.02	—	0.02	—	316	316	0.01	< 0.005	—	317
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.56	5.56	< 0.005	< 0.005	—	5.58
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.92	0.92	< 0.005	< 0.005	—	0.92
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.06	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	26.4	26.4	< 0.005	< 0.005	< 0.005	26.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.50	0.50	< 0.005	< 0.005	< 0.005	0.50
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.08	0.08	< 0.005	< 0.005	< 0.005	0.08
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Linear, Grading & Excavation	Linear, Grading & Excavation	2/22/2036	1/9/2037	5.00	231	—
Linear, Drainage, Utilities, & Sub-Grade	Linear, Drainage, Utilities, & Sub-Grade	1/12/2037	11/30/2037	5.00	231	—
Linear, Paving	Linear, Paving	2/22/2036	1/9/2037	5.00	231	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Linear, Grading & Excavation	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Linear, Grading & Excavation	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Linear, Grading & Excavation	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Linear, Grading & Excavation	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Linear, Grading & Excavation	Rollers	Diesel	Average	1.00	8.00	36.0	0.38
Linear, Grading & Excavation	Off-Highway Trucks	Diesel	Average	1.00	8.00	376	0.38
Linear, Grading & Excavation	Signal Boards	Electric	Average	1.00	8.00	6.00	0.82
Linear, Drainage, Utilities, & Sub-Grade	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Linear, Drainage, Utilities, & Sub-Grade	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Linear, Drainage, Utilities, & Sub-Grade	Off-Highway Trucks	Diesel	Average	1.00	2.00	376	0.38
Linear, Drainage, Utilities, & Sub-Grade	Off-Highway Trucks	Diesel	Average	1.00	8.00	376	0.38
Linear, Drainage, Utilities, & Sub-Grade	Signal Boards	Electric	Average	1.00	8.00	6.00	0.82
Linear, Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix

Linear, Grading & Excavation	—	—	—	—
Linear, Grading & Excavation	Worker	26.0	18.5	LDA,LDT1,LDT2
Linear, Grading & Excavation	Vendor	2.00	10.2	HHDT,MHDT
Linear, Grading & Excavation	Hauling	11.0	50.0	HHDT
Linear, Grading & Excavation	Onsite truck	—	—	HHDT
Linear, Drainage, Utilities, & Sub-Grade	—	—	—	—
Linear, Drainage, Utilities, & Sub-Grade	Worker	20.0	18.5	LDA,LDT1,LDT2
Linear, Drainage, Utilities, & Sub-Grade	Vendor	2.00	10.2	HHDT,MHDT
Linear, Drainage, Utilities, & Sub-Grade	Hauling	2.00	50.0	HHDT
Linear, Drainage, Utilities, & Sub-Grade	Onsite truck	—	—	HHDT
Linear, Paving	—	—	—	—
Linear, Paving	Worker	2.50	18.5	LDA,LDT1,LDT2
Linear, Paving	Vendor	0.00	10.2	HHDT,MHDT
Linear, Paving	Hauling	0.00	20.0	HHDT
Linear, Paving	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Linear, Grading & Excavation	—	1,366	1.44	0.00	—
Linear, Drainage, Utilities, & Sub-Grade	—	—	1.44	0.00	—

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Road Construction	1.44	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2036	29.4	532	0.03	< 0.005
2037	58.7	532	0.03	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	26.6	annual days of extreme heat
Extreme Precipitation	0.85	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	3.15	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	0	0	0	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	1	1	2
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	1	1	1	2
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	93.6
AQ-PM	4.75
AQ-DPM	13.0
Drinking Water	40.3
Lead Risk Housing	28.4
Pesticides	0.00
Toxic Releases	1.83
Traffic	11.9
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	19.2
Impaired Water Bodies	0.00
Solid Waste	24.8
Sensitive Population	—
Asthma	79.3
Cardio-vascular	92.0
Low Birth Weights	64.5

Socioeconomic Factor Indicators	—
Education	78.5
Housing	60.6
Linguistic	71.7
Poverty	79.1
Unemployment	2.29

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	15.28294623
Employed	30.46323624
Median HI	14.97497754
Education	—
Bachelor's or higher	19.11972283
High school enrollment	100
Preschool enrollment	29.19286539
Transportation	—
Auto Access	50.17323239
Active commuting	12.04927499
Social	—
2-parent households	47.56833055
Voting	13.71743873
Neighborhood	—
Alcohol availability	75.46516104
Park access	12.65238034
Retail density	16.27101245

Supermarket access	18.54228153
Tree canopy	1.93763634
Housing	—
Homeownership	39.81778519
Housing habitability	39.31733607
Low-inc homeowner severe housing cost burden	64.37828821
Low-inc renter severe housing cost burden	29.35968177
Uncrowded housing	36.78942641
Health Outcomes	—
Insured adults	21.00603105
Arthritis	0.0
Asthma ER Admissions	19.5
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	45.8
Cognitively Disabled	52.2
Physically Disabled	26.6
Heart Attack ER Admissions	31.9
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0

Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	25.4
Elderly	75.4
English Speaking	26.3
Foreign-born	51.7
Outdoor Workers	17.3
Climate Change Adaptive Capacity	—
Impervious Surface Cover	83.6
Traffic Density	19.3
Traffic Access	23.0
Other Indices	—
Hardship	68.7
Other Decision Support	—
2016 Voting	22.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	20.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	22 months of construction anticipated
Construction: Off-Road Equipment	Specific equipment provided by client
Construction: Trips and VMT	Worker trips and hauling trips provided by applicant

16694 - Area K Detailed Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	16694 - Area K
Construction Start Date	12/1/2037
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.30
Precipitation (days)	11.2
Location	12526 Spruce St, Desert Hot Springs, CA 92240, USA
County	Riverside-Salton Sea
City	Desert Hot Springs
Air District	South Coast AQMD
Air Basin	Salton Sea
TAZ	5640
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.30

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Road Construction	2.37	Mile	1.15	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.39	1.16	10.0	17.0	0.04	0.18	0.90	1.08	0.17	0.23	0.40	—	5,037	5,037	0.15	0.26	1.41	5,118
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.39	1.17	10.3	16.5	0.04	0.19	0.90	1.08	0.18	0.23	0.41	—	4,995	4,995	0.15	0.26	0.04	5,075
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.70	0.59	4.24	7.52	0.02	0.08	0.40	0.48	0.08	0.10	0.18	—	2,433	2,433	0.08	0.10	0.25	2,465
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.13	0.11	0.77	1.37	< 0.005	0.01	0.07	0.09	0.01	0.02	0.03	—	403	403	0.01	0.02	0.04	408

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2038	1.39	1.16	10.0	17.0	0.04	0.18	0.90	1.08	0.17	0.23	0.40	—	5,037	5,037	0.15	0.26	1.41	5,118

Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	1.39	1.17	10.3	16.5	0.04	0.19	0.89	1.08	0.18	0.23	0.41	—	4,995	4,995	0.15	0.26	0.04	5,075
2038	1.38	1.15	10.1	16.4	0.04	0.18	0.90	1.08	0.17	0.23	0.40	—	4,986	4,986	0.15	0.26	0.04	5,066
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	0.08	0.07	0.62	1.01	< 0.005	0.01	0.05	0.07	0.01	0.01	0.02	—	304	304	0.01	0.02	0.04	309
2038	0.70	0.59	4.24	7.52	0.02	0.08	0.40	0.48	0.08	0.10	0.18	—	2,433	2,433	0.08	0.10	0.25	2,465
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	0.02	0.01	0.11	0.18	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	50.4	50.4	< 0.005	< 0.005	0.01	51.2
2038	0.13	0.11	0.77	1.37	< 0.005	0.01	0.07	0.09	0.01	0.02	0.03	—	403	403	0.01	0.02	0.04	408

3. Construction Emissions Details

3.1. Linear, Grading & Excavation (2037) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.18	0.99	7.58	13.4	0.03	0.13	—	0.13	0.12	—	0.12	—	2,899	2,899	0.12	0.02	—	2,909
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.46	0.82	< 0.005	0.01	—	0.01	0.01	—	0.01	—	176	176	0.01	< 0.005	—	176
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.15	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	29.1	29.1	< 0.005	< 0.005	—	29.2
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.04	0.68	0.00	0.00	0.34	0.34	0.00	0.08	0.08	—	275	275	< 0.005	< 0.005	0.01	275
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	46.3	46.3	< 0.005	0.01	< 0.005	48.2
Hauling	0.04	0.02	1.55	0.22	0.01	0.04	0.50	0.53	0.04	0.14	0.18	—	1,432	1,432	0.01	0.22	0.03	1,498

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	17.8	17.8	< 0.005	< 0.005	0.01	17.8
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.81	2.81	< 0.005	< 0.005	< 0.005	2.92
Hauling	< 0.005	< 0.005	0.09	0.01	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	86.9	86.9	< 0.005	0.01	0.03	90.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.95	2.95	< 0.005	< 0.005	< 0.005	2.95
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.47	0.47	< 0.005	< 0.005	< 0.005	0.48
Hauling	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	14.4	14.4	< 0.005	< 0.005	0.01	15.1

3.3. Linear, Grading & Excavation (2038) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.17	0.98	7.43	13.4	0.03	0.12	—	0.12	0.11	—	0.11	—	2,899	2,899	0.12	0.02	—	2,909
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.17	0.98	7.43	13.4	0.03	0.12	—	0.12	0.11	—	0.11	—	2,899	2,899	0.12	0.02	—	2,909

Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.35	0.29	2.21	4.00	0.01	0.04	—	0.04	0.03	—	0.03	—	862	862	0.03	0.01	—	865
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.40	0.73	< 0.005	0.01	—	0.01	0.01	—	0.01	—	143	143	0.01	< 0.005	—	143
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.04	1.17	0.00	0.00	0.34	0.34	0.00	0.08	0.08	—	322	322	< 0.005	< 0.005	0.28	323
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	45.4	45.4	< 0.005	0.01	0.04	47.3
Hauling	0.04	0.02	1.49	0.23	0.01	0.04	0.51	0.55	0.04	0.14	0.18	—	1,424	1,424	0.01	0.22	1.06	1,491

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.04	0.66	0.00	0.00	0.34	0.34	0.00	0.08	0.08	—	275	275	< 0.005	< 0.005	0.01	276
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	45.5	45.5	< 0.005	0.01	< 0.005	47.4
Hauling	0.04	0.02	1.60	0.23	0.01	0.04	0.51	0.55	0.04	0.14	0.18	—	1,424	1,424	0.01	0.22	0.03	1,491
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.25	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	87.3	87.3	< 0.005	< 0.005	0.04	87.5
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	13.5	13.5	< 0.005	< 0.005	0.01	14.1
Hauling	0.01	0.01	0.47	0.07	< 0.005	0.01	0.15	0.16	0.01	0.04	0.05	—	424	424	< 0.005	0.07	0.14	443
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	14.5	14.5	< 0.005	< 0.005	0.01	14.5
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.24	2.24	< 0.005	< 0.005	< 0.005	2.33
Hauling	< 0.005	< 0.005	0.09	0.01	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	70.1	70.1	< 0.005	0.01	0.02	73.4

3.5. Linear, Drainage, Utilities, & Sub-Grade (2038) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.76	0.63	3.06	6.48	0.02	0.07	—	0.07	0.07	—	0.07	—	2,100	2,100	0.09	0.02	—	2,107
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.76	0.63	3.06	6.48	0.02	0.07	—	0.07	0.07	—	0.07	—	2,100	2,100	0.09	0.02	—	2,107
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27	0.23	1.10	2.32	0.01	0.03	—	0.03	0.02	—	0.02	—	754	754	0.03	0.01	—	756
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.20	0.42	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	125	125	0.01	< 0.005	—	125
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.03	0.90	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	248	248	< 0.005	< 0.005	0.22	248
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	45.4	45.4	< 0.005	0.01	0.04	47.3
Hauling	0.01	< 0.005	0.27	0.04	< 0.005	0.01	0.09	0.10	0.01	0.03	0.03	—	259	259	< 0.005	0.04	0.19	271
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.51	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	212	212	< 0.005	< 0.005	0.01	212
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	45.5	45.5	< 0.005	0.01	< 0.005	47.4
Hauling	0.01	< 0.005	0.29	0.04	< 0.005	0.01	0.09	0.10	0.01	0.03	0.03	—	259	259	< 0.005	0.04	0.01	271
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.01	0.23	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	81.0	81.0	< 0.005	< 0.005	0.03	81.2
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	16.3	16.3	< 0.005	< 0.005	0.01	17.0
Hauling	< 0.005	< 0.005	0.10	0.01	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	92.9	92.9	< 0.005	0.01	0.03	97.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	13.4	13.4	< 0.005	< 0.005	0.01	13.4
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.70	2.70	< 0.005	< 0.005	< 0.005	2.81
Hauling	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	15.4	15.4	< 0.005	< 0.005	< 0.005	16.1

3.7. Linear, Paving (2037) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	1.04	2.04	< 0.005	0.02	—	0.02	0.02	—	0.02	—	316	316	0.01	< 0.005	—	317
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.12	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	19.1	19.1	< 0.005	< 0.005	—	19.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.17	3.17	< 0.005	< 0.005	—	3.18
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.06	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	26.4	26.4	< 0.005	< 0.005	< 0.005	26.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.71	1.71	< 0.005	< 0.005	< 0.005	1.72
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.28	0.28	< 0.005	< 0.005	< 0.005	0.28
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Linear, Paving (2038) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	1.02	2.04	< 0.005	0.02	—	0.02	0.02	—	0.02	—	316	316	0.01	< 0.005	—	317
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	1.02	2.04	< 0.005	0.02	—	0.02	0.02	—	0.02	—	316	316	0.01	< 0.005	—	317
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.03	0.03	0.30	0.61	< 0.005	0.01	—	0.01	0.01	—	0.01	—	93.9	93.9	< 0.005	< 0.005	—	94.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	< 0.005	0.06	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.5	15.5	< 0.005	< 0.005	—	15.6
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.11	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	31.0	31.0	< 0.005	< 0.005	0.03	31.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.06	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	26.4	26.4	< 0.005	< 0.005	< 0.005	26.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.39	8.39	< 0.005	< 0.005	< 0.005	8.41
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.39	1.39	< 0.005	< 0.005	< 0.005	1.39
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Linear, Grading & Excavation	Linear, Grading & Excavation	12/1/2037	6/1/2038	5.00	131	—
Linear, Drainage, Utilities, & Sub-Grade	Linear, Drainage, Utilities, & Sub-Grade	6/2/2038	12/1/2038	5.00	131	—
Linear, Paving	Linear, Paving	12/1/2037	6/1/2038	5.00	131	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Linear, Grading & Excavation	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Linear, Grading & Excavation	Excavators	Diesel	Average	2.00	8.00	36.0	0.38

Linear, Grading & Excavation	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Linear, Grading & Excavation	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Linear, Grading & Excavation	Rollers	Diesel	Average	1.00	8.00	36.0	0.38
Linear, Grading & Excavation	Off-Highway Trucks	Diesel	Average	1.00	8.00	376	0.38
Linear, Grading & Excavation	Signal Boards	Electric	Average	1.00	8.00	6.00	0.82
Linear, Drainage, Utilities, & Sub-Grade	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Linear, Drainage, Utilities, & Sub-Grade	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Linear, Drainage, Utilities, & Sub-Grade	Off-Highway Trucks	Diesel	Average	1.00	2.00	376	0.38
Linear, Drainage, Utilities, & Sub-Grade	Off-Highway Trucks	Diesel	Average	1.00	8.00	376	0.38
Linear, Drainage, Utilities, & Sub-Grade	Signal Boards	Electric	Average	1.00	8.00	6.00	0.82
Linear, Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Linear, Grading & Excavation	—	—	—	—
Linear, Grading & Excavation	Worker	26.0	18.5	LDA,LDT1,LDT2
Linear, Grading & Excavation	Vendor	2.00	10.2	HHDT,MHDT
Linear, Grading & Excavation	Hauling	11.0	50.0	HHDT
Linear, Grading & Excavation	Onsite truck	—	—	HHDT

Linear, Drainage, Utilities, & Sub-Grade	—	—	—	—
Linear, Drainage, Utilities, & Sub-Grade	Worker	20.0	18.5	LDA,LDT1,LDT2
Linear, Drainage, Utilities, & Sub-Grade	Vendor	2.00	10.2	HHDT,MHDT
Linear, Drainage, Utilities, & Sub-Grade	Hauling	2.00	50.0	HHDT
Linear, Drainage, Utilities, & Sub-Grade	Onsite truck	—	—	HHDT
Linear, Paving	—	—	—	—
Linear, Paving	Worker	2.50	18.5	LDA,LDT1,LDT2
Linear, Paving	Vendor	0.00	10.2	HHDT,MHDT
Linear, Paving	Hauling	0.00	20.0	HHDT
Linear, Paving	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Linear, Grading & Excavation	—	1,088	1.15	0.00	—

Linear, Drainage, Utilities, & Sub-Grade	—	—	1.15	0.00	—

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Road Construction	1.15	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2037	29.4	532	0.03	< 0.005
2038	58.7	532	0.03	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	26.6	annual days of extreme heat
Extreme Precipitation	0.85	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	3.15	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A

Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	0	0	0	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	1	1	2
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	1	1	1	2
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	93.6
AQ-PM	4.75
AQ-DPM	13.0
Drinking Water	40.3
Lead Risk Housing	28.4
Pesticides	0.00
Toxic Releases	1.83
Traffic	11.9
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	19.2
Impaired Water Bodies	0.00
Solid Waste	24.8
Sensitive Population	—
Asthma	79.3
Cardio-vascular	92.0
Low Birth Weights	64.5
Socioeconomic Factor Indicators	—
Education	78.5
Housing	60.6
Linguistic	71.7
Poverty	79.1
Unemployment	2.29

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	15.28294623
Employed	30.46323624
Median HI	14.97497754
Education	—
Bachelor's or higher	19.11972283
High school enrollment	100
Preschool enrollment	29.19286539
Transportation	—
Auto Access	50.17323239
Active commuting	12.04927499
Social	—
2-parent households	47.56833055
Voting	13.71743873
Neighborhood	—
Alcohol availability	75.46516104
Park access	12.65238034
Retail density	16.27101245
Supermarket access	18.54228153
Tree canopy	1.93763634
Housing	—
Homeownership	39.81778519
Housing habitability	39.31733607
Low-inc homeowner severe housing cost burden	64.37828821
Low-inc renter severe housing cost burden	29.35968177

Uncrowded housing	36.78942641
Health Outcomes	—
Insured adults	21.00603105
Arthritis	0.0
Asthma ER Admissions	19.5
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	45.8
Cognitively Disabled	52.2
Physically Disabled	26.6
Heart Attack ER Admissions	31.9
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0

Children	25.4
Elderly	75.4
English Speaking	26.3
Foreign-born	51.7
Outdoor Workers	17.3
Climate Change Adaptive Capacity	—
Impervious Surface Cover	83.6
Traffic Density	19.3
Traffic Access	23.0
Other Indices	—
Hardship	68.7
Other Decision Support	—
2016 Voting	22.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	20.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	12 months of construction anticipated
Construction: Off-Road Equipment	Specific equipment provided by client
Construction: Trips and VMT	Worker trips and hauling trips provided by applicant

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5.3.1. Unmitigated

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

5.5. Architectural Coatings

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

5.6.2. Construction Earthmoving Control Strategies

5.7. Construction Paving

5.8. Construction Electricity Consumption and Emissions Factors

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	16694 - Area I-10 Corridor
Construction Start Date	12/2/2038
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.30
Precipitation (days)	11.2
Location	19995 N Indian Canyon Dr, Palm Springs, CA 92262, USA
County	Riverside-Salton Sea
City	Palm Springs
Air District	South Coast AQMD
Air Basin	Salton Sea
TAZ	5694
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.30

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Road Construction	6.29	Mile	8.00	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.47	1.23	10.9	19.3	0.05	0.19	0.90	1.09	0.17	0.23	0.40	—	5,405	5,405	0.16	0.26	1.23	5,488
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.48	1.24	11.2	18.8	0.05	0.19	0.90	1.09	0.18	0.23	0.41	—	5,369	5,369	0.16	0.26	0.04	5,451
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.05	0.88	7.86	13.5	0.03	0.13	0.64	0.77	0.12	0.16	0.29	—	3,839	3,839	0.12	0.18	0.38	3,898
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.19	0.16	1.43	2.47	0.01	0.02	0.12	0.14	0.02	0.03	0.05	—	636	636	0.02	0.03	0.06	645

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2039	1.47	1.23	10.9	19.3	0.05	0.19	0.90	1.09	0.17	0.23	0.40	—	5,405	5,405	0.16	0.26	1.23	5,488

2040	1.46	1.22	10.8	19.3	0.05	0.18	0.90	1.08	0.17	0.23	0.40	—	5,394	5,394	0.16	0.26	1.06	5,476
2041	0.79	0.66	3.14	7.33	0.02	0.07	0.37	0.44	0.07	0.09	0.16	—	2,640	2,640	0.09	0.06	0.29	2,662
2042	0.78	0.66	3.11	7.31	0.02	0.07	0.37	0.44	0.06	0.09	0.16	—	2,637	2,637	0.09	0.06	0.25	2,659
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2038	1.48	1.24	11.2	18.8	0.05	0.19	0.90	1.09	0.18	0.23	0.41	—	5,369	5,369	0.16	0.26	0.04	5,451
2039	1.46	1.21	11.0	18.8	0.05	0.19	0.90	1.09	0.17	0.23	0.40	—	5,355	5,355	0.16	0.26	0.03	5,436
2040	1.45	1.20	10.9	18.8	0.05	0.18	0.90	1.08	0.17	0.23	0.40	—	5,344	5,344	0.16	0.26	0.03	5,425
2041	0.79	0.66	3.17	6.98	0.02	0.07	0.37	0.44	0.07	0.09	0.16	—	2,605	2,605	0.09	0.06	0.01	2,626
2042	0.78	0.65	3.13	6.96	0.02	0.07	0.37	0.44	0.06	0.09	0.16	—	2,602	2,602	0.09	0.06	0.01	2,624
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2038	0.09	0.07	0.66	1.12	< 0.005	0.01	0.05	0.06	0.01	0.01	0.02	—	316	316	0.01	0.02	0.04	321
2039	1.05	0.88	7.86	13.5	0.03	0.13	0.64	0.77	0.12	0.16	0.29	—	3,839	3,839	0.12	0.18	0.38	3,898
2040	0.97	0.80	6.97	12.3	0.03	0.12	0.58	0.70	0.11	0.15	0.26	—	3,546	3,546	0.11	0.16	0.30	3,598
2041	0.56	0.47	2.26	5.07	0.02	0.05	0.26	0.31	0.05	0.06	0.11	—	1,870	1,870	0.06	0.05	0.09	1,886
2042	0.44	0.37	1.75	3.96	0.01	0.04	0.21	0.25	0.04	0.05	0.09	—	1,464	1,464	0.05	0.04	0.06	1,476
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2038	0.02	0.01	0.12	0.20	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	52.4	52.4	< 0.005	< 0.005	0.01	53.2
2039	0.19	0.16	1.43	2.47	0.01	0.02	0.12	0.14	0.02	0.03	0.05	—	636	636	0.02	0.03	0.06	645
2040	0.18	0.15	1.27	2.24	0.01	0.02	0.11	0.13	0.02	0.03	0.05	—	587	587	0.02	0.03	0.05	596
2041	0.10	0.09	0.41	0.92	< 0.005	0.01	0.05	0.06	0.01	0.01	0.02	—	310	310	0.01	0.01	0.01	312
2042	0.08	0.07	0.32	0.72	< 0.005	0.01	0.04	0.04	0.01	0.01	0.02	—	242	242	0.01	0.01	0.01	244

3. Construction Emissions Details

3.1. Linear, Grading & Excavation (2038) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.27	1.06	8.49	15.8	0.03	0.13	—	0.13	0.12	—	0.12	—	3,282	3,282	0.13	0.03	—	3,293
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.50	0.93	< 0.005	0.01	—	0.01	0.01	—	0.01	—	193	193	0.01	< 0.005	—	193
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.09	0.17	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	31.9	31.9	< 0.005	< 0.005	—	32.0

Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.04	0.66	0.00	0.00	0.34	0.34	0.00	0.08	0.08	—	275	275	< 0.005	< 0.005	0.01	276
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	45.5	45.5	< 0.005	0.01	< 0.005	47.4
Hauling	0.04	0.02	1.60	0.23	0.01	0.04	0.51	0.55	0.04	0.14	0.18	—	1,424	1,424	0.01	0.22	0.03	1,491
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	17.2	17.2	< 0.005	< 0.005	0.01	17.3
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.67	2.67	< 0.005	< 0.005	< 0.005	2.78
Hauling	< 0.005	< 0.005	0.09	0.01	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	83.6	83.6	< 0.005	0.01	0.03	87.5
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.85	2.85	< 0.005	< 0.005	< 0.005	2.86
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.44	0.44	< 0.005	< 0.005	< 0.005	0.46
Hauling	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	13.8	13.8	< 0.005	< 0.005	< 0.005	14.5

3.3. Linear, Grading & Excavation (2039) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.26	1.05	8.34	15.8	0.03	0.13	—	0.13	0.12	—	0.12	—	3,282	3,282	0.13	0.03	—	3,293
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.26	1.05	8.34	15.8	0.03	0.13	—	0.13	0.12	—	0.12	—	3,282	3,282	0.13	0.03	—	3,293
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.90	0.75	5.96	11.3	0.02	0.09	—	0.09	0.08	—	0.08	—	2,344	2,344	0.10	0.02	—	2,352
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.14	1.09	2.06	< 0.005	0.02	—	0.02	0.02	—	0.02	—	388	388	0.02	< 0.005	—	389
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.04	1.13	0.00	0.00	0.34	0.34	0.00	0.08	0.08	—	320	320	< 0.005	< 0.005	0.24	320
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	44.6	44.6	< 0.005	0.01	0.03	46.5
Hauling	0.04	0.02	1.49	0.21	0.01	0.04	0.51	0.55	0.04	0.14	0.18	—	1,413	1,413	0.01	0.22	0.93	1,480
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.04	0.63	0.00	0.00	0.34	0.34	0.00	0.08	0.08	—	273	273	< 0.005	< 0.005	0.01	274
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	44.6	44.6	< 0.005	0.01	< 0.005	46.5
Hauling	0.04	0.02	1.59	0.22	0.01	0.04	0.51	0.55	0.04	0.14	0.18	—	1,414	1,414	0.01	0.22	0.02	1,480
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.57	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	208	208	< 0.005	< 0.005	0.08	209
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	31.8	31.8	< 0.005	< 0.005	0.01	33.2
Hauling	0.03	0.02	1.12	0.15	0.01	0.03	0.36	0.39	0.03	0.10	0.13	—	1,010	1,010	0.01	0.16	0.29	1,057
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.10	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	34.5	34.5	< 0.005	< 0.005	0.01	34.5
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.27	5.27	< 0.005	< 0.005	< 0.005	5.49
Hauling	< 0.005	< 0.005	0.20	0.03	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	167	167	< 0.005	0.03	0.05	175

3.3. Linear, Grading & Excavation (2040) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.25	1.05	8.25	15.8	0.03	0.12	—	0.12	0.11	—	0.11	—	3,282	3,282	0.13	0.03	—	3,293
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.25	1.05	8.25	15.8	0.03	0.12	—	0.12	0.11	—	0.11	—	3,282	3,282	0.13	0.03	—	3,293
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.76	0.64	5.02	9.62	0.02	0.07	—	0.07	0.07	—	0.07	—	1,997	1,997	0.08	0.02	—	2,004

Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.12	0.92	1.76	< 0.005	0.01	—	0.01	0.01	—	0.01	—	331	331	0.01	< 0.005	—	332
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.04	1.10	0.00	0.00	0.34	0.34	0.00	0.08	0.08	—	318	318	< 0.005	< 0.005	0.21	318
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	43.8	43.8	< 0.005	0.01	0.03	45.7
Hauling	0.04	0.02	1.48	0.21	0.01	0.04	0.51	0.55	0.04	0.14	0.18	—	1,404	1,404	0.01	0.22	0.81	1,472
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.04	0.61	0.00	0.00	0.34	0.34	0.00	0.08	0.08	—	271	271	< 0.005	< 0.005	0.01	272
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	43.8	43.8	< 0.005	0.01	< 0.005	45.7
Hauling	0.04	0.02	1.59	0.22	0.01	0.04	0.51	0.55	0.04	0.14	0.18	—	1,405	1,405	0.01	0.22	0.02	1,471
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.03	0.47	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	176	176	< 0.005	< 0.005	0.06	177
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	26.7	26.7	< 0.005	< 0.005	0.01	27.8

Hauling	0.02	0.01	0.95	0.13	0.01	0.02	0.31	0.33	0.02	0.08	0.11	—	855	855	0.01	0.13	0.21	895
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	< 0.005	0.09	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	29.2	29.2	< 0.005	< 0.005	0.01	29.2
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.41	4.41	< 0.005	< 0.005	< 0.005	4.60
Hauling	< 0.005	< 0.005	0.17	0.02	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	142	142	< 0.005	0.02	0.04	148

3.7. Linear, Drainage, Utilities, & Sub-Grade (2040) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.74	0.62	2.86	6.46	0.02	0.07	—	0.07	0.06	—	0.06	—	2,100	2,100	0.09	0.02	—	2,107
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.31	0.70	< 0.005	0.01	—	0.01	0.01	—	0.01	—	226	226	0.01	< 0.005	—	227

Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	37.4	37.4	< 0.005	< 0.005	—	37.5
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.03	0.47	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	209	209	< 0.005	< 0.005	< 0.005	209
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	43.8	43.8	< 0.005	0.01	< 0.005	45.7
Hauling	0.01	< 0.005	0.29	0.04	< 0.005	0.01	0.09	0.10	0.01	0.03	0.03	—	255	255	< 0.005	0.04	< 0.005	268
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.06	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	24.0	24.0	< 0.005	< 0.005	0.01	24.0
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.71	4.71	< 0.005	< 0.005	< 0.005	4.91
Hauling	< 0.005	< 0.005	0.03	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	27.5	27.5	< 0.005	< 0.005	0.01	28.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	3.97	3.97	< 0.005	< 0.005	< 0.005	3.98

Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.78	0.78	< 0.005	< 0.005	< 0.005	0.81
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.55	4.55	< 0.005	< 0.005	< 0.005	4.77

3.9. Linear, Drainage, Utilities, & Sub-Grade (2041) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.74	0.62	2.81	6.46	0.02	0.06	—	0.06	0.06	—	0.06	—	2,100	2,100	0.09	0.02	—	2,107
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.74	0.62	2.81	6.46	0.02	0.06	—	0.06	0.06	—	0.06	—	2,100	2,100	0.09	0.02	—	2,107
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.53	0.44	2.01	4.61	0.01	0.05	—	0.05	0.04	—	0.04	—	1,500	1,500	0.06	0.01	—	1,505
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.08	0.37	0.84	< 0.005	0.01	—	0.01	0.01	—	0.01	—	248	248	0.01	< 0.005	—	249
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.02	0.82	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	243	243	< 0.005	< 0.005	0.14	243
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	43.1	43.1	< 0.005	0.01	0.02	44.9
Hauling	0.01	< 0.005	0.27	0.04	< 0.005	0.01	0.09	0.10	0.01	0.03	0.03	—	254	254	< 0.005	0.04	0.13	266
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.03	0.46	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	208	208	< 0.005	< 0.005	< 0.005	208
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	43.1	43.1	< 0.005	0.01	< 0.005	45.0
Hauling	0.01	< 0.005	0.29	0.04	< 0.005	0.01	0.09	0.10	0.01	0.03	0.03	—	254	254	< 0.005	0.04	< 0.005	266
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.02	0.41	0.00	0.00	0.19	0.19	0.00	0.04	0.04	—	158	158	< 0.005	< 0.005	0.04	159

Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	30.8	30.8	< 0.005	< 0.005	0.01	32.1
Hauling	< 0.005	< 0.005	0.20	0.03	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	181	181	< 0.005	0.03	0.04	190
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.08	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	26.2	26.2	< 0.005	< 0.005	0.01	26.3
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.10	5.10	< 0.005	< 0.005	< 0.005	5.32
Hauling	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	30.0	30.0	< 0.005	< 0.005	0.01	31.5

3.11. Linear, Drainage, Utilities, & Sub-Grade (2042) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.74	0.62	2.77	6.46	0.02	0.06	—	0.06	0.06	—	0.06	—	2,100	2,100	0.09	0.02	—	2,107
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.74	0.62	2.77	6.46	0.02	0.06	—	0.06	0.06	—	0.06	—	2,100	2,100	0.09	0.02	—	2,107

Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.41	0.35	1.55	3.61	0.01	0.03	—	0.03	0.03	—	0.03	—	1,175	1,175	0.05	0.01	—	1,179
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.06	0.28	0.66	< 0.005	0.01	—	0.01	0.01	—	0.01	—	195	195	0.01	< 0.005	—	195
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.02	0.80	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	242	242	< 0.005	< 0.005	0.12	242
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	42.4	42.4	< 0.005	0.01	0.02	44.2
Hauling	0.01	< 0.005	0.27	0.04	< 0.005	0.01	0.09	0.10	0.01	0.03	0.03	—	253	253	< 0.005	0.04	0.11	265

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.02	0.45	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	206	206	< 0.005	< 0.005	< 0.005	207
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	42.5	42.5	< 0.005	0.01	< 0.005	44.2
Hauling	0.01	< 0.005	0.28	0.04	< 0.005	0.01	0.09	0.10	0.01	0.03	0.03	—	253	253	< 0.005	0.04	< 0.005	265
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.31	0.00	0.00	0.15	0.15	0.00	0.03	0.03	—	123	123	< 0.005	< 0.005	0.03	124
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	23.8	23.8	< 0.005	< 0.005	< 0.005	24.7
Hauling	< 0.005	< 0.005	0.16	0.02	< 0.005	< 0.005	0.05	0.06	< 0.005	0.01	0.02	—	142	142	< 0.005	0.02	0.03	148
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.06	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	20.4	20.4	< 0.005	< 0.005	< 0.005	20.5
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.93	3.93	< 0.005	< 0.005	< 0.005	4.09
Hauling	< 0.005	< 0.005	0.03	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	23.4	23.4	< 0.005	< 0.005	< 0.005	24.6

3.13. Linear, Paving (2038) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	1.02	2.04	< 0.005	0.02	—	0.02	0.02	—	0.02	—	316	316	0.01	< 0.005	—	317
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.12	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	18.5	18.5	< 0.005	< 0.005	—	18.6
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.07	3.07	< 0.005	< 0.005	—	3.08
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.06	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	26.4	26.4	< 0.005	< 0.005	< 0.005	26.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.66	1.66	< 0.005	< 0.005	< 0.005	1.66
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.27	0.27	< 0.005	< 0.005	< 0.005	0.27
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Linear, Paving (2039) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	1.00	2.04	< 0.005	0.02	—	0.02	0.02	—	0.02	—	316	316	0.01	< 0.005	—	317
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	1.00	2.04	< 0.005	0.02	—	0.02	0.02	—	0.02	—	316	316	0.01	< 0.005	—	317
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.06	0.71	1.46	< 0.005	0.02	—	0.02	0.01	—	0.01	—	225	225	0.01	< 0.005	—	226
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.13	0.27	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	37.3	37.3	< 0.005	< 0.005	—	37.4

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.11	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	30.7	30.7	< 0.005	< 0.005	0.02	30.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	< 0.005	0.06	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	26.3	26.3	< 0.005	< 0.005	< 0.005	26.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	20.0	20.0	< 0.005	< 0.005	0.01	20.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.31	3.31	< 0.005	< 0.005	< 0.005	3.32
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.17. Linear, Paving (2040) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.99	2.04	< 0.005	0.02	—	0.02	0.02	—	0.02	—	316	316	0.01	< 0.005	—	317
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.99	2.04	< 0.005	0.02	—	0.02	0.02	—	0.02	—	316	316	0.01	< 0.005	—	317
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.05	0.60	1.24	< 0.005	0.01	—	0.01	0.01	—	0.01	—	192	192	0.01	< 0.005	—	193
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.11	0.23	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	31.8	31.8	< 0.005	< 0.005	—	31.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.01	0.01	< 0.005	0.11	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	30.5	30.5	< 0.005	< 0.005	0.02	30.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.06	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	26.1	26.1	< 0.005	< 0.005	< 0.005	26.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	16.9	16.9	< 0.005	< 0.005	0.01	17.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.81	2.81	< 0.005	< 0.005	< 0.005	2.81
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Linear, Grading & Excavation	Linear, Grading & Excavation	12/2/2038	11/6/2040	5.00	504	—
Linear, Drainage, Utilities, & Sub-Grade	Linear, Drainage, Utilities, & Sub-Grade	11/7/2040	10/13/2042	5.00	504	—
Linear, Paving	Linear, Paving	12/2/2038	11/6/2040	5.00	504	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Linear, Grading & Excavation	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Linear, Grading & Excavation	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Linear, Grading & Excavation	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Linear, Grading & Excavation	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Linear, Grading & Excavation	Rollers	Diesel	Average	1.00	8.00	36.0	0.38
Linear, Grading & Excavation	Off-Highway Trucks	Diesel	Average	1.00	8.00	376	0.38
Linear, Grading & Excavation	Signal Boards	Electric	Average	1.00	8.00	6.00	0.82
Linear, Grading & Excavation	Bore/Drill Rigs	Diesel	Average	1.00	8.00	83.0	0.50
Linear, Drainage, Utilities, & Sub-Grade	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Linear, Drainage, Utilities, & Sub-Grade	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37

Linear, Drainage, Utilities, & Sub-Grade	Off-Highway Trucks	Diesel	Average	1.00	2.00	376	0.38
Linear, Drainage, Utilities, & Sub-Grade	Off-Highway Trucks	Diesel	Average	1.00	8.00	376	0.38
Linear, Drainage, Utilities, & Sub-Grade	Signal Boards	Electric	Average	1.00	8.00	6.00	0.82
Linear, Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Linear, Grading & Excavation	—	—	—	—
Linear, Grading & Excavation	Worker	26.0	18.5	LDA,LDT1,LDT2
Linear, Grading & Excavation	Vendor	2.00	10.2	HHDT,MHDT
Linear, Grading & Excavation	Hauling	11.0	50.0	HHDT
Linear, Grading & Excavation	Onsite truck	—	—	HHDT
Linear, Drainage, Utilities, & Sub-Grade	—	—	—	—
Linear, Drainage, Utilities, & Sub-Grade	Worker	20.0	18.5	LDA,LDT1,LDT2
Linear, Drainage, Utilities, & Sub-Grade	Vendor	2.00	10.2	HHDT,MHDT
Linear, Drainage, Utilities, & Sub-Grade	Hauling	2.00	50.0	HHDT
Linear, Drainage, Utilities, & Sub-Grade	Onsite truck	—	—	HHDT
Linear, Paving	—	—	—	—
Linear, Paving	Worker	2.50	18.5	LDA,LDT1,LDT2
Linear, Paving	Vendor	0.00	10.2	HHDT,MHDT
Linear, Paving	Hauling	0.00	20.0	HHDT

Linear, Paving	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Linear, Grading & Excavation	—	6,885	8.00	0.00	—
Linear, Drainage, Utilities, & Sub-Grade	—	—	8.00	0.00	—

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Road Construction	8.00	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2038	29.4	532	0.03	< 0.005
2039	29.4	532	0.03	< 0.005
2040	58.7	532	0.03	< 0.005
2041	29.4	532	0.03	< 0.005
2042	29.4	532	0.03	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	24.8	annual days of extreme heat
Extreme Precipitation	0.20	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	3.09	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	0	0	0	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	1	1	2
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	1	1	1	2
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	91.1
AQ-PM	4.06

AQ-DPM	14.0
Drinking Water	25.8
Lead Risk Housing	39.6
Pesticides	14.3
Toxic Releases	3.98
Traffic	59.9
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	26.7
Impaired Water Bodies	0.00
Solid Waste	54.8
Sensitive Population	—
Asthma	50.6
Cardio-vascular	58.7
Low Birth Weights	13.9
Socioeconomic Factor Indicators	—
Education	73.8
Housing	59.7
Linguistic	48.7
Poverty	95.2
Unemployment	55.0

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	25.81804183

Employed	23.88040549
Median HI	16.89978186
Education	—
Bachelor's or higher	26.08751444
High school enrollment	2.489413576
Preschool enrollment	1.873476197
Transportation	—
Auto Access	42.71782369
Active commuting	10.08597459
Social	—
2-parent households	35.96817657
Voting	48.09444373
Neighborhood	—
Alcohol availability	80.90594123
Park access	8.340818683
Retail density	1.745155909
Supermarket access	5.864237136
Tree canopy	1.308866932
Housing	—
Homeownership	80.90594123
Housing habitability	65.12254587
Low-inc homeowner severe housing cost burden	43.62889773
Low-inc renter severe housing cost burden	64.41678429
Uncrowded housing	45.28422944
Health Outcomes	—
Insured adults	2.55357372
Arthritis	0.0
Asthma ER Admissions	54.0

High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	24.6
Cognitively Disabled	43.0
Physically Disabled	5.4
Heart Attack ER Admissions	51.2
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	91.1
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	67.0
Elderly	5.7
English Speaking	42.6
Foreign-born	50.4
Outdoor Workers	10.8

Climate Change Adaptive Capacity	—
Impervious Surface Cover	84.9
Traffic Density	32.5
Traffic Access	23.0
Other Indices	—
Hardship	74.8
Other Decision Support	—
2016 Voting	47.2

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	33.0
Healthy Places Index Score for Project Location (b)	8.00
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification

Construction: Construction Phases	48 months of construction anticipated
Construction: Off-Road Equipment	Specific equipment provided by client Bore/Drills Rigs added to account for Caltrans I-10 ROW
Construction: Trips and VMT	Worker trips and hauling trips provided by applicant

APPENDIX 2

Biological Resources Assessment



Mission Springs Water District
Areas A, D-3 G, H, I, J-2, K and I-10 Area Sewer Improvements Project

Biological Resources Assessment

Version 2

January 2026

Tom Dodson & Associates

Project No:	W3X83304 (MS-277)
Document Title:	Biological Resources Assessment
Document No.:	Version 2
Date:	January 2026
Client Name:	Tom Dodson & Associates
Project Manager:	Lisa Patterson
Author:	Lisa Patterson
File Name:	2026 MSWD Sewer-BRA

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Appendices

Appendix A. Special-Status Species and Potential to Occur in the Vicinity of the Project Area

Appendix B. Site Photos and Photo-point Map

Appendix C. Regulatory Framework

Executive Summary

Tom Dodson and Associates to conduct a Biological Resources Assessment (BRA) for the Mission Springs Water District's (MSWD) proposed Areas A, D-3,G, H, I, J-2, K, and I-10 Sewer Improvements Project (Project) located in Desert Hot Springs, Riverside County, California. The BRA includes a desktop and field biological resources survey, aquatic resources survey, and land use consistency analysis for the Coachella Valley Multiple Species Habitat Conservation Plan (CVMSHCP). The Project Area includes Areas A, G, H, I, J-2, and K totaling 822 acres. The Project would consist of installing sewer pipeline to eliminate septic tanks that threaten contamination of groundwater supplies by expanding MSWD's wastewater collection system.

In May of 2025, biologists conducted a biological resources assessment survey to assess potential sensitive biological resources at the Project site. Results of the biological resources assessment provide baseline information to MSWD, City and/or County planning officials, and federal and state regulatory agencies. It also assesses the likelihood of the Project to cause adverse effects on sensitive biological resources and to identify mitigation measures. The field survey found no state or federally listed species within the Project Area.

Due to the environmental conditions on site and adjacent disturbances, the Project Area does not contain suitable habitat to support special status plant or wildlife species that have been documented in the Project vicinity (within approximately 3 miles), except for burrowing owl (*Athene cunicularia*). Burrowing owl could occur within the Project Area due to the proximity of documented occurrences and the species' ability to tolerate human disturbance. Field survey results for burrowing owl were negative, with very few potentially suitable burrows observed. Their potential to occur within the Project Area is low also due to limited marginal habitat as a result of development and habitat fragmentation. Provided that Project activities are restricted to the existing paved roadways, potential impacts to burrowing owls can be avoided through implementation of the avoidance and minimization measures provided below for nesting birds.

biologists also assessed the Project Area for the potential presence of state and/or federal aquatic resources. The delineation assessment was conducted in accordance with the U.S. Army Corps of Engineers *Wetlands Delineation Manual, Jurisdictional Determination Form Instructional Guidebook, Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region* and the Environmental Protection Agency and the current Waters of the United States Conforming Rule *(effective September 8, 2023)*. Little Morongo Creek crosses Augusta Avenue, which is within the Project's disturbance footprint, at an at-grade 'Arizona' stream crossing subject to Regional Water Quality Control Board (RWQCB) Clean Water Act under Section 401 and the Porter-Cologne Water Quality Control Act, and the Section 1602 of the California Fish and Game Code regulated by the California Department of Fish and Wildlife (CDFW). Therefore, the Project may impact RWQCB/CDFW jurisdictional waters of the State and require permits if impacted. No other wetland or non-wetland jurisdictional waters were observed within the Project Area. Because aquatic resources in and near the site have low streamflow durations, they are ephemeral and therefore by regulation not federal waters of the United States. Therefore, no Section 404 permit would be required from the U.S. Army Corps of Engineers.

The Project site falls entirely within the CVMSHCP area and the MSWD, and City of Desert Hot Springs are both signatories to the CVMSHCP. Therefore, this assessment also includes a Land Use Consistency analysis to assess consistency with the Conservation Goals and Objectives of the CVMSHCP.

This report describes resources, provides an aquatic resource delineation map, identifies state and/or federally listed species with potential to occur and presents representative site photographs.

The delineation results and conclusions presented in this report are considered preliminary and valid under current regulatory context. Additionally, according to protocol and standard practices, the results of the biological resources assessment surveys will remain valid for the period of one year, or until May 2026, after which time, if the site has not been disturbed in the interim, another survey may be required to determine the persisting absence of special status species and to verify environmental conditions on site. Regardless of survey results and conclusions given herein, if any state or federally listed species are found on site during Project-related work activities, all activities likely to affect the animal(s) should cease immediately and regulatory agencies should be contacted to determine appropriate management actions.

1. Introduction

MSWD provides water and sewer services to the communities of Desert Hot Springs, West Garnet, North Palm Springs, and various portions of unincorporated Riverside County. MSWD, as the Lead Agency pursuant to California Environmental Quality Act (CEQA), is proposing to install linear sewer pipeline within Areas A, G, H, I, J-2, K , and I-10 (Project Area)(**Figures 1, 2, 3a-h**) to eliminate septic tanks that threaten contamination of groundwater supplies, expanding MSWD's wastewater collection system. This would also protect hot mineral water, which is the economic basis of the community's spa industry.

Tom Dodson and Associates (TDA) has prepared this Biological Resources Assessment (BRA) report for the District's proposed Project Area Sewer Improvements Project. The BRA fieldwork was conducted by biologists Aaron Newton and Ayoola Folarin in May 2025, and Deanna Cummings in January 2026. The purpose of the BRA survey was to address potential effects of the Project on designated U.S. Fish and Wildlife Service (USFWS) Critical Habitats and/or any species currently listed or formally proposed for listing as endangered or threatened under the federal Endangered Species Act (ESA) and/or the California Endangered Species Act (CESA), as well as any species otherwise designated as sensitive by the California Department of Fish and Wildlife (CDFW) and/or the California Native Plant Society (CNPS).

The Project Area was assessed for sensitive species known to occur locally. Attention was focused on those state and/or federally listed as threatened or endangered species and California Fully Protected species that have been documented in the vicinity of the Project Area, whose habitat requirements are present within or adjacent to the Project Area. Results of the habitat assessment are intended to provide sufficient baseline information to the Project Proponent (MSWD), City and/or County planning officials, and federal and state regulatory agencies. It also assesses the likelihood of the Project in causing adverse effects on sensitive biological resources and to identify mitigation measures. The field survey found no state or federally listed species within the Project Area.

In addition to the BRA survey, Project Area for the presence of state and/or federal jurisdictional waters potentially subject to regulation by the U.S. Army Corps of Engineers (USACE) under Section 404 of the Clean Water Act (CWA), RWQCB under Section 401 of the CWA and Porter Cologne Water Quality Control Act, and CDFW under Section 1600 of the California Fish and Game Code.

Finally, the Project site falls entirely within the CVMSHCP area. The MSWD and City of Desert Hot Springs are both signatories to the CVMSHCP. Therefore, a Land Use Consistency analysis to assess whether the Project's consistency with the Conservation Goals and Objectives of the CVMSHCP was completed.

1.1. Project Description

MSWD proposes to construct new sewer pipeline that would be 8-inch in diameter within Sub Areas A, G, H, I, J-2, K, and I-10 and of the District's service area, within an area of approximately 822- acres. The Project will utilize open cut trenching and jack and bore techniques. The trench width will be 3 feet maximum with a maximum of 5 feet at the top for pavement cutting. The depth to the invert of the pipe will be approximately 8 feet deep in the open cut trench areas. Therefore, it is anticipated that installation of 30,000 LF of sewer line will occur over approximately 125 days of construction over a period of about 6 months. The final activity associated with the sewer installation is repaving of roads disturbed by the construction, anticipated to occur over a 20-day period. Equipment and crews consist of the following:

- 1 Excavator
- 1 Backhoe
- 1 Paver
- 1 Roller
- 1 Water truck

- Traffic Control Signage and Devices
- 10 Dump/delivery trucks (80 miles round trip distance)
- Employees (11 members per team)

1.2. Location

The proposed Project is in the City of Desert Hot Springs, Riverside County, California, in Section 32 of Township 2 south, Range 5 east, Section 33 of Township 2 south, Range 5 east, Section 23 of Township 2 south, Range 4 east, San Bernardino Base Meridian (**Figure 1**). The Project Area is depicted on the *Desert Hot Springs* and *Seven Palms Valley* U. S. Geological Survey's (USGS) 7.5-Minute Series Quadrangle maps.

Generally, the Project Area is located approximately 5 miles north of the Interstate 10 (I-10) Exit 123 (Palm Drive, Gene Autry Trail) (**Figure 2**) and includes Area A, G, H, I, J-2, and K:

Area A (33.980617°, -116.535837°) is the western and northern most Project Area and is generally confined to the Mission Lakes Country Club and surrounding residential community. Area A is bound by Mission Lakes Blvd to the south, Little Morongo Road to the east, Augusta and Annadale Avenue to the north, and Clubhouse Blvd and Doral Drive to the west.

Area D-3 (33.973500°, -116.503176°) is generally bound by 12th Street to the south, Palm Drive to the east,Mission Lakes Blvd to the north, and Santa Cruz Road to the west.

Area G (33.958551°, -116.487940°) is generally bound by Hacienda Avenue to the south, Miricale Hill Road to the east, Pierson Blvd to the north, and Verbena Drive to the west.

Area H (33.951777°, -116.482087°) is generally bound by Desert View Avenue to the north; Hidalgo Street and Yerxa Road to the east; Reposo Way, Maui Way, and Miricle Hill Road to the west; and a mostly undeveloped parcel to the south.

Area I (33.952077°, -116.477212°) is generally bound by Mountain View Road to the east, Desert View Avenue to the north, and Hidalgo Street and Yerxa Road to the west.

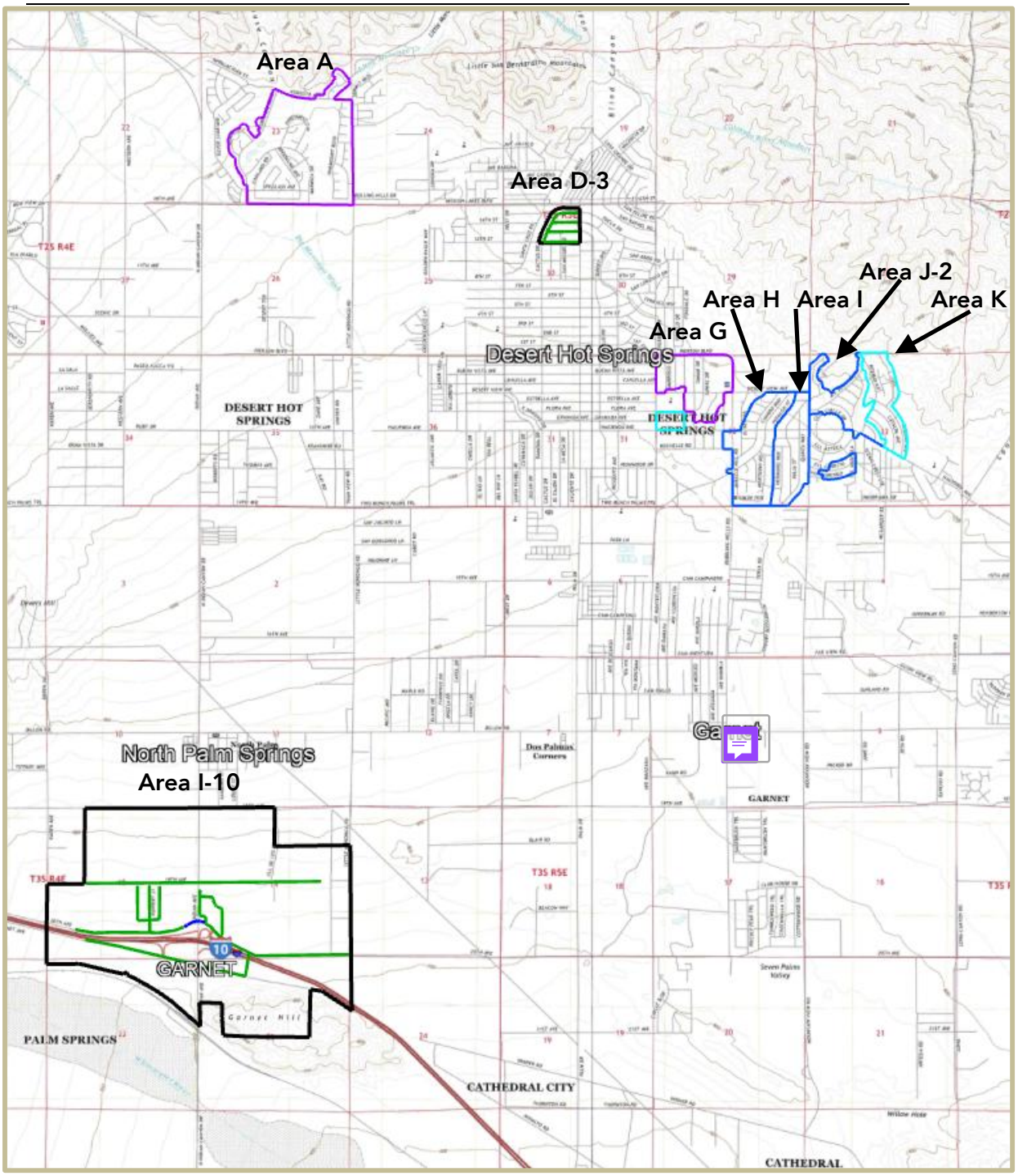
Area J-2 (33.956399°, -116.471114°) is generally bound by undeveloped land to the north, Acacia Avenue and Redbud Road to the east, Hacienda Avenue to the south, and Redbud Road to the west.

Area K (33.956838°, -116.466614°) is the eastern most area and is bound by undeveloped land to the north, Acacia Avenue and Redbud Road to the west, Hacienda Avenue to the south, and Deodar Avenue and Skyline Drive to the east.

Area I-10 (33.907404°, -116.546882°) is the southen most area and is bound by undeveloped and developing lands to the north, Karen Drive to the west, the UPRR Railroad Right of Way to the south, and Deodar Avenue and Little Mountain Road to the east.



Figure 1
Regional Location



SOURCE: Google Earth/US Topo

Figure 2
Topographic Map
of Project Areas



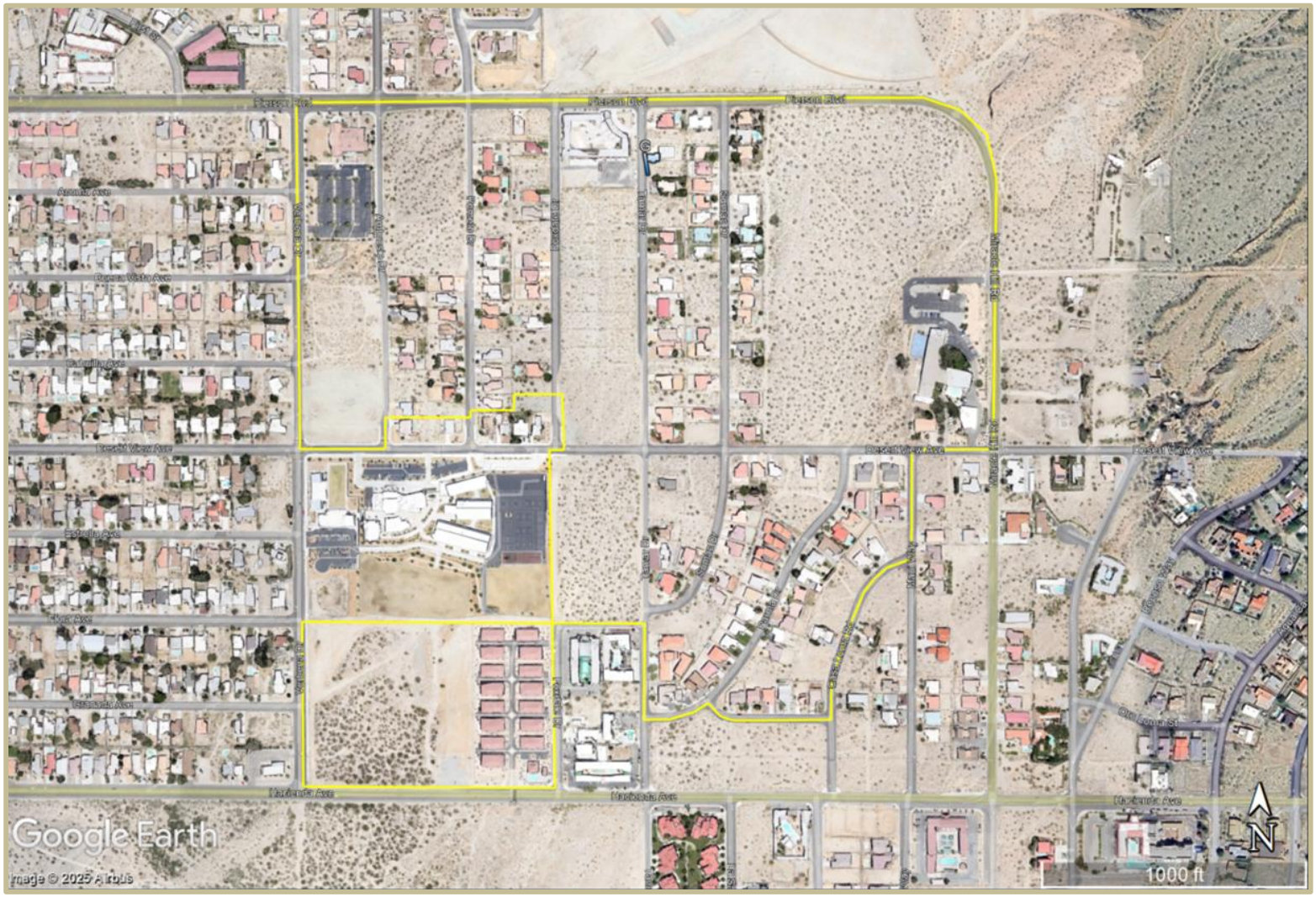
SOURCE: Google Earth

Figure 3a.
Area A Sewer Improvements



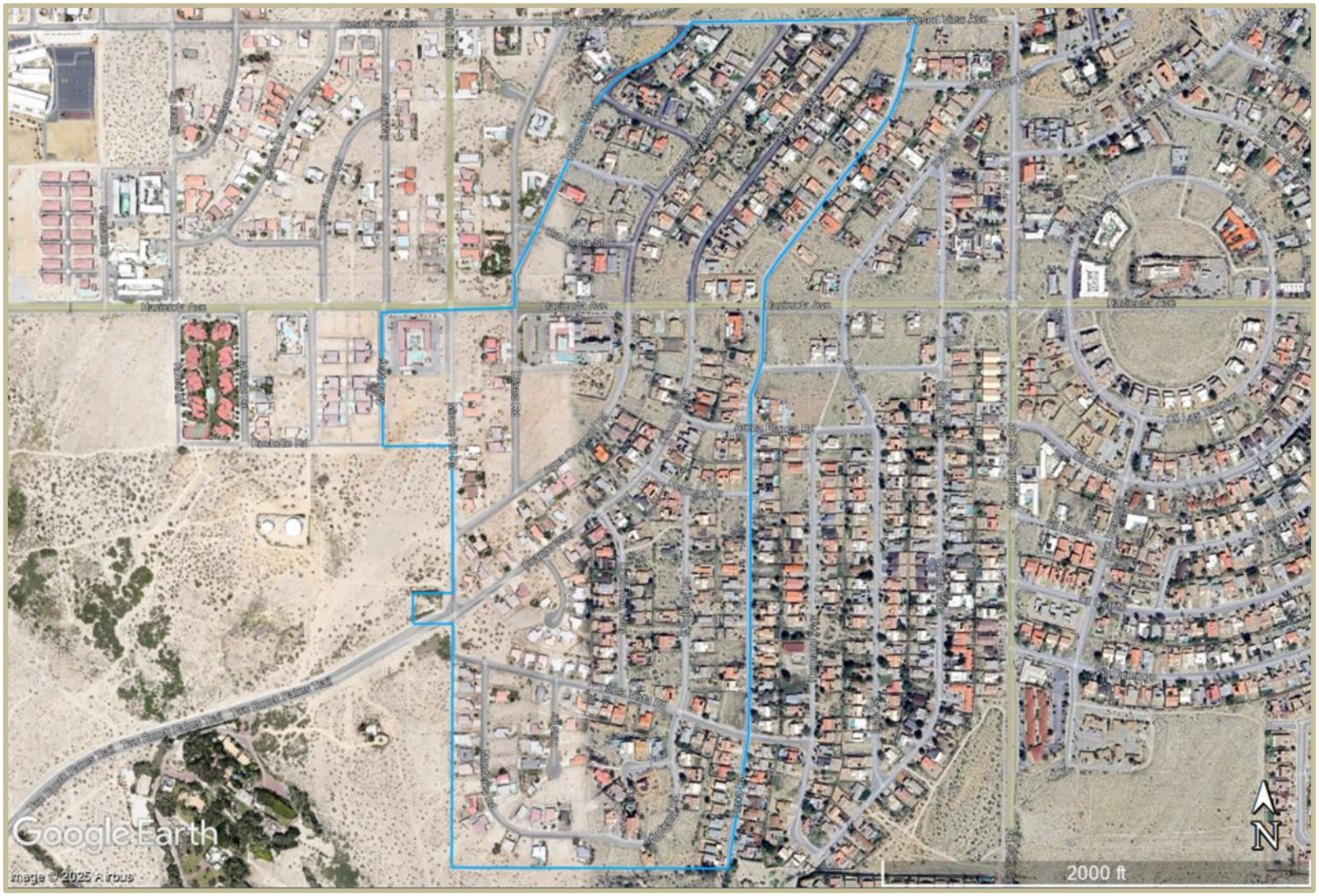
SOURCE: Spicer Consulting Group & MSWD

Figure 3b
Area D-3 Sewer Improvements



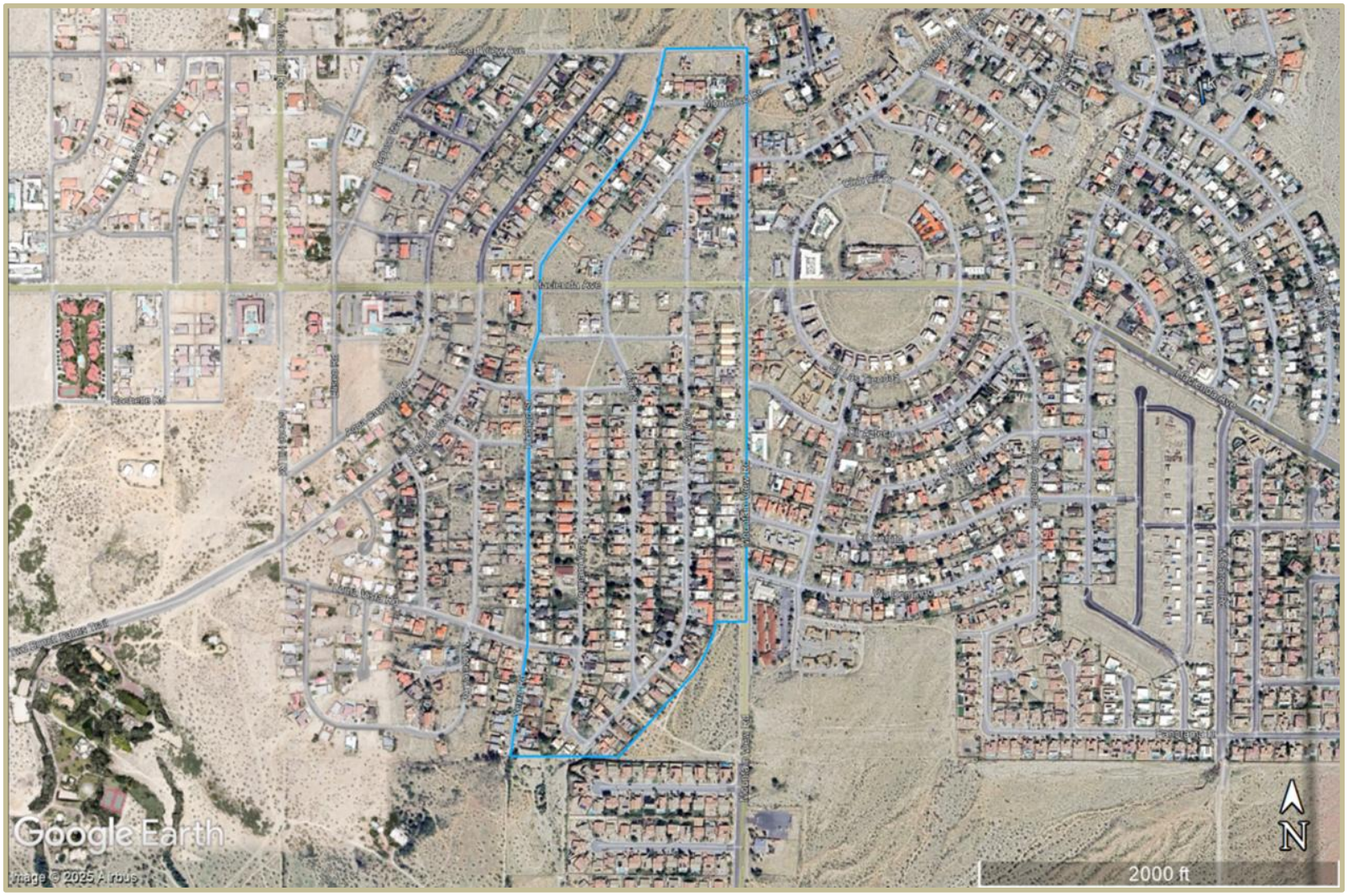
SOURCE: Google Earth

Figure 3c.
Area G Sewer Improvements



SOURCE: Google Earth

Figure 3d.
Area H Sewer Improvements



SOURCE: Google Earth

Figure 3e.
Area I Sewer Improvements



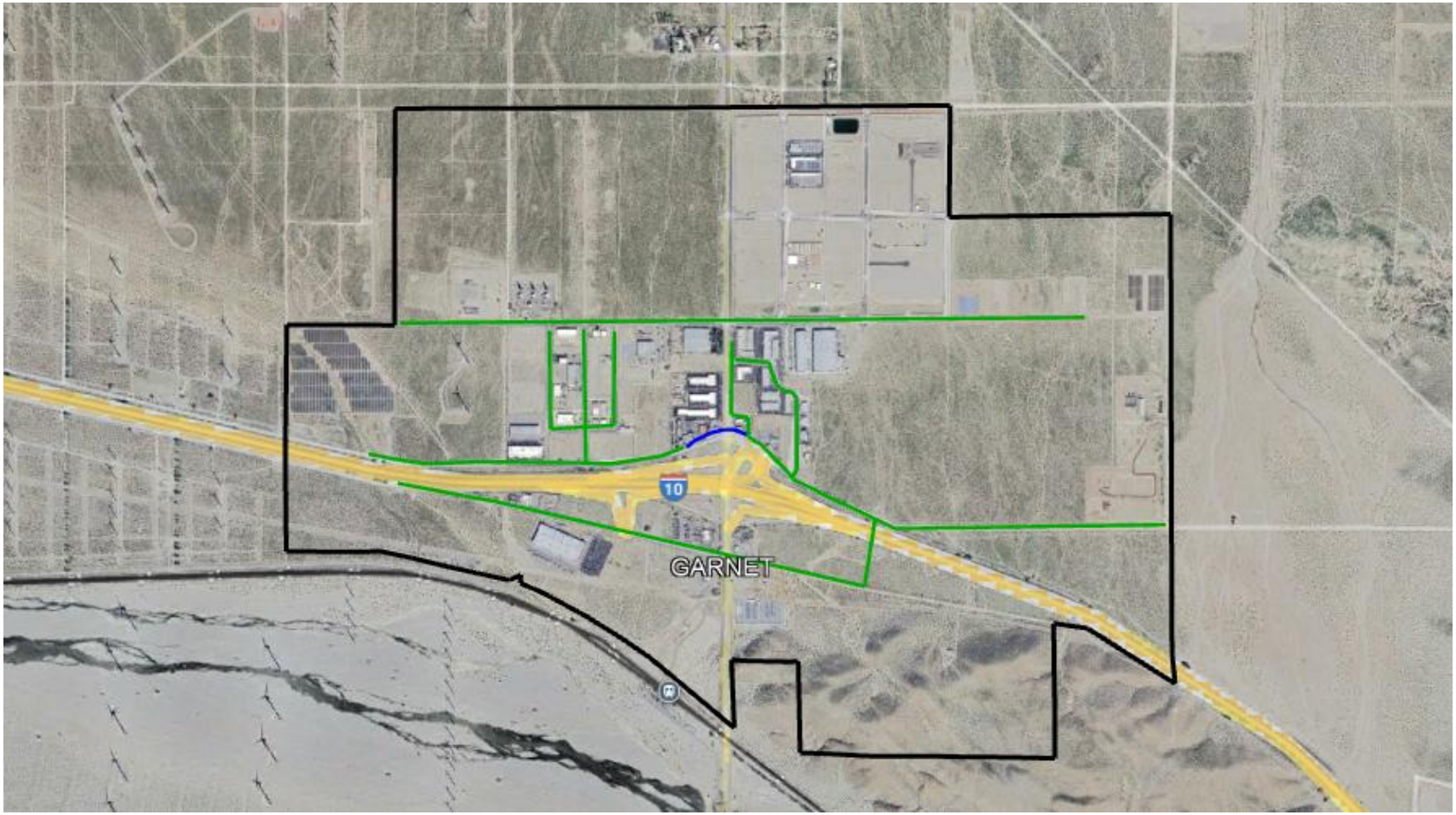
SOURCE: Google Earth

Figure 3f.
Area J-2 Sewer Improvements



SOURCE: Google Earth

Figure 3g.
Area K Sewer Improvements



SOURCE: Google Earth

Figure 3h.
Area I-10 Sewer Improvements

Area D-3 Sewer Improvements

1.3. Environmental Setting

The Project Area is situated in the geographically based ecological classification known as the Upper Coachella Valley and Hills of the Sonoran Basin and Range in southern California (Griffith et al. 2016). The goal of regional ecological classifications is to reduce variability based on spatial covariance in climate, geology, topography, climax vegetation, hydrology, and soils. The Upper Coachella Valley and Hills ecoregion is a transitional desert region with some affinities to the Mojave Basin and Range ecoregion to the north and is surrounded by mountains, except to the south where it descends toward the agricultural lands and the Salton Sea (Griffith et al. 2016).

The Desert Hot Springs area is situated in the northwestern end of the Coachella Valley and is bordered on the north and northeast by the Little San Bernardino Mountains, on the east/southeast by the Seven Palms Valley and Edom Hills and on the west by the San Bernardino Mountain foothills. The topography of the Project Area consists of an urban landscape that slopes downward from northeast to southwest, built over naturally occurring alluvial fans and bajadas. The elevation of the Project Area ranges from approximately 1,055 feet above mean sea level (amsl) near the southern limits of the Project Area to 1,520 feet amsl near the northeastern-most limits.

The Project Area is within a hot desert climate (BWh), characterized by year-round high temperatures, low humidity, and considerable variation in the occurrence, intensity, and distribution of precipitation. Average annual maximum temperatures within the Project Area peak at 108.5 degrees Fahrenheit (° F) in July and fall to an average annual minimum temperature of 37° F in December and January (Palm Springs Airport temperature data average over 27 years, 1998-2025; NOAA 2025). Average total annual precipitation is approximately 3.73 inches and reaches a peak in January (0.87 inches) (Palm Springs Airport precipitation data average over 27 years, 1998-2025; NOAA 2025). Precipitation is lowest in the month of June (0.00 inches average (NOAA 2025)).

Hydrologically, the eastern portions of the Project Area are situated within the Miracle Hill Hydrologic Sub-Area (HSA 719.43) and the western portions are within the Mission Creek Hydrologic Sub-Area (HSA 719.42). The Miracle Hill and Mission Creek HSAs comprise 44,525-acre and 73,871-acre drainage areas respectively; both within the larger Whitewater River Watershed (HUC 18100201). The Whitewater River is the major hydrogeomorphic feature within the Whitewater River Watershed and is one of the main tributaries to the Salton Sea. The nearest tributary to the Whitewater River is Morongo Wash, which is southwest-adjacent to Area A at its closest point to the Project Area.

Soils within the Project Area are comprised mostly of Carsitas Series soils including Carsitas gravelly sand, 0 to 9 percent slopes, Carsitas gravelly sand, 9 to 30 percent slopes, Carsitas cobbly sand, 2 to 9 percent slopes and Carsitas fine sand, 0 to 5 percent slopes (USDA 2025). Carsitas family soils consist of gravelly sand that is comprised of gravelly alluvium derived from granite. This soil type is excessively drained, with a low to very low runoff class and does not have a hydric soil rating.

The Project is also located within the City of Palm Springs and Unincorporated Riverside County. Here is what I suggest this paragraph reads as:

The City of Desert Hot Springs is a desert community situated north of the City of Palms Springs, along the southern foothills of the Little San Bernardino Mountains, which consists of a mix of urban landscapes and undeveloped desert scrub habitats. The project area is entirely within a disturbed environment, with only minor areas of the project footprint containing native desert species (such as any areas outside of road ROW). The mix of land uses that occur within the project area includes nearly all of the land uses that could be found within the City of Desert Hot Springs; and further, within the City of Palm Springs, the land use is generally Industrial (IND) in nature, with some areas designated for Open Space Desert (OS-D), and a small area designated for Medium Density Residential (MDR). Within Unincorporated Riverside County, the predominant land uses are Medium Density Residential, Commercial Retail, Open Space Recreation, Conservation, and Medium High Density Residential. Within all “lettered” Sub Areas, the predominant land uses are residential in nature. Habitat within the surrounding undeveloped areas consist mostly of Creosote bush scrub (Larrea tridentata) Shrubland Alliance plant communities.

2. Assessment Methodology

2.1. Biological Resources Assessment

Data regarding biological resources in the Project vicinity were obtained through literature review, desktop evaluation and field investigation. Prior to performing the field survey, available databases, and documentation relevant to the Project Area were reviewed for documented occurrences of sensitive species that could potentially occur in the Project vicinity. The USFWS designated Critical Habitat online mapper, USFWS Information for Planning and Consultation System (IPaC), and the most recent versions of the California Natural Diversity Database (CNDDB) and California Native Plant Society (CNPS) Rare Plant Inventory were searched for sensitive species data in the *Joshua Tree South, Myoma, East Deception Canyon, Seven Palms Valley, Morongo Valley, Desert Hot Springs, Yucca Valley South, Cathedral City* and *Palm Springs* USGS 7.5-Minute Series Quadrangles. These databases contain records of reported occurrences of state and federally listed species or otherwise sensitive species and habitats that may occurwithin the vicinity of the Project site and the surrounding quadrangles. The potential for occurrence of all CNDDB sensitive species is documented (**Appendix A**, *Special-Status Species and Potential to Occur in the Vicinity of the Project Area*). Other available technical information on the biological resources of the area was also reviewed including previous surveys and recent findings.

2.2. Biological Resources Assessment Field Survey

Biologists Aaron Newton and Ayoola Folarin conducted a biological resources field survey of the Project Area on May 28 and 29, 2025, and January 2026. The field survey area encompassed the entire proposed Project Area and consisted of a pedestrian survey of the proposed Project footprint, as well as the immediate surrounding area where feasible and appropriate (i.e. no adjacent private properties were accessed). Wildlife species were detected by either sight, calls, tracks, scat, and/or other sign. In addition to species observed, expected wildlife usage of the site was assessed based on known habitat preferences of regional wildlife species and data about their relative distributions in the area. The focus of the faunal species survey was to identify potential suitable habitat for special status wildlife that may occur within the Project or its vicinity.

2.3. Aquatic Resources Delineation

- On May 28 and 29, 2025, Aaron Newton and Ayoola Folarin also evaluated the Project Area for the presence of aquatic resources and potentially jurisdictional waters, i.e. Waters of the U.S. (WOTUS), as regulated by the USACE and RWQCB, and/or jurisdictional streambed and associated riparian habitat as regulated by the CDFW. Prior to the field visit, aerial images of the Project Area were viewed and compared with the surrounding USGS 7.5-Minute Topographic Quadrangle maps to identify drainage features within the survey area as indicated from topographic changes, blue-line features, or visible drainage patterns. The USFWS National Wetland Inventory (NWI) and Environmental Protection Agency (EPA) Water Program “My Waters” Google Earth Pro data layers were also reviewed to review whether any hydrologic features and wetland areas had been documented within the vicinity of the site. Similarly, the United States Department of Agriculture (USDA) – Natural Resources Conservation Service (NRCS) “Web Soil Survey” was reviewed for soil types found within the Project Area to identify the soil series in the area and to check these soils to determine whether they are regionally identified as hydric soils. Upstream and downstream connectivity of waterways (if present) were reviewed on Google Earth Pro aerial imagery and topographic maps to understand the site in context of the watershed. The lateral extent of potential WOUS was measured at the Ordinary High Water Mark (OHWM) in accordance with regulations set forth in 33 CFR part 328 and the current Waters of the United States Conforming Rule (effective September 8, 2023) as well as the following USACE guidance and policies: USACE – Corps of Engineers Wetlands Delineation Manual, Wetlands Research Program Technical Report Y-87-1 (on-line edition), January 1987 - Final Report.
- USACE – A Field Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States (A Delineation Manual), August 2008.
- USACE – National Ordinary High Water Mark Field Delineation Manual for Rivers and Streams: Final Version. January 2025.

- USACE – Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0), September 2008.

To be considered a *jurisdictional adjacent wetland* under the federal CWA an area must possess three (3) wetland characteristics: a dominance of hydrophytic *vegetation*, hydric *soils*, and wetland *hydrology*.

- *Hydrophytic vegetation*: Hydrophytic vegetation is plant life that grows, and is typically adapted for life, in permanently or periodically saturated soils. The hydrophytic vegetation criterion is met if more than 50 percent of the dominant plant species from all strata (tree, shrub, and herb layers) is hydrophytic. Hydrophytic species are those included on the National Wetland Plant List for the Arid West Region (USACE 2022). Each species on the lists is rated with a wetland indicator category, as shown in Table 1.

Table 1. Wetland Indicator Vegetation Categories

Category	Probability
Obligate Wetland (OBL)	Almost always occur in wetlands (estimated probability >99%)
Facultative Wetland (FACW)	Usually occur in wetlands (estimated probability 67 to 99%)
Facultative (FAC)	Equally likely to occur in wetlands and non-wetlands (estimated probability 34 to 66%)
Facultative Upland (FACU)	Usually occur in non-wetlands (estimated probability 67 to 99%)
Obligate Upland (UPL)	Almost always occur in non-wetlands (estimated probability >99%)

- *Hydric Soil*: Soil maps from the USDA-NRCS Web Soil Survey (USDA 2025) were reviewed for soil types found within the Project Area. Hydric soils are saturated or inundated long enough during the growing season to develop anaerobic conditions that favor growth and regeneration of hydrophytic vegetation. There are several indirect indicators that may signify the presence of hydric soils including hydrogen sulfide generation, the presence of iron and manganese concretions, certain soil colors, gleying, and the presence of mottling. Generally, hydric soils are dark in color or may be gleyed (bluish, greenish, or grayish), resulting from soil development under anoxic (without oxygen) conditions. Bright mottles within an otherwise dark soil matrix indicate periodic saturation with intervening periods of soil aeration. Hydric indicators are particularly difficult to observe in sandy soils, which are often recently deposited soils of flood plains (entisols) and usually lack sufficient fines (clay and silt) and organic material to allow use of soil color as a reliable indicator of hydric conditions. Hydric soil indicators in sandy soils include accumulations of organic matter in the surface horizon, vertical streaking of subsurface horizons by organic matter, and organic pans.

  The hydric soil criterion is satisfied at a location if soils in the area can be inferred or observed to have a high groundwater table, if there is evidence of prolonged soil saturation, or if there are any indicators suggesting a long-term reducing environment in the upper part of the soil profile. Reducing conditions are most easily assessed using soil color. Soil colors are evaluated using the Munsell Soil Color Charts (Munsell 2000). Soil pits are dug (when necessary) to an approximate depth of 16-20 inches to evaluate soil profiles for indications of anaerobic and redoximorphic (hydric) conditions in the subsurface.
- *Wetland Hydrology*: The wetland hydrology criterion is satisfied at a location based upon conclusions inferred from field observations that indicate an area has a high probability of being inundated or saturated (flooded, ponded, or tidally influenced) long enough during the growing season to develop anaerobic conditions in the surface soil environment, especially the root zone (USACE 1987 and USACE 2008).

Evaluation of CDFW jurisdiction followed guidance in the California Fish and Game Code and *A Review of Stream Processes and Forms in Dryland Watersheds* (CDFW, 2010). Specifically, CDFW jurisdiction would occur where a stream has a definite course showing evidence of where waters rise and to the extent of associated riparian vegetation.

3. Results

3.1. Existing Biological and Physical Conditions

The Project Area consists of the approximately 822-acre area that encompasses the entire extent of the proposed temporary footprints of the new sewer lines, which includes all anticipated construction ground disturbance and physical location of new sewer line. Existing disturbances within the immediate Project Area are primarily associated with residential development and paved roadways. Habitat within the Project Area is disturbed and highly fragmented. Land cover within Project Area consists of residential development, and surrounding land cover consists of a mix of development and undeveloped scrub habitats.

The proposed impact area is completely disturbed, consisting of paved streets (**Appendix B**, Site *Photos and Photo-point Map*). Because there are no undisturbed habitat within the Project Area, the only species expected to occur are those adapted to urban environments. This list of the most common species observed in the Project Area reflects these disturbance characteristics:

- greater roadrunner (Geococcyx californianus)
- Gambel's quail (Callipepla gambelii)
- rock pigeon (*Columba livia*)
- common raven (*Corvus corax*)
- house finch (Haemorhous mexicanus)
- northern mockingbird (*Mimus polyglottos*)
- house sparrow (Passer domesticus)
- great-tailed grackle (*Quiscalus mexicanus*)
- Eurasian collared-dove (*Streptopelia decaocto*)
- mourning dove (*Zenaida macroura*)
- Costa's hummingbird (*Calypte costae*)
- Anna's hummingbird (*Calypte anna*)
- white-crowned sparrow (*Zonotrichia leucophrys*)
- western fence lizard (*Sceloporus occidentalis*)
- desert cottontail (*Sylvilagus audubonii*)

3.2. Special Status Species and Habitats

According to the CNDDB, CNPS, and other relevant literature and databases, 95 sensitive species (57 plant species, 38 animal species) have been documented in the surrounding nine quad search within the surrounding Project Area (*Joshua Tree South, Myoma, East Deception Canyon, Seven Palms Valley, Morongo Valley, Desert Hot Springs, Yucca Valley South, Cathedral City* and *Palm Springs)* USGS 7.5-Minute Series Quadrangles. This list of sensitive species and habitats includes any state and/or federally listed threatened or endangered species, California Fully Protected species, CDFW designated Species of Special Concern (SSC), and otherwise Special Animals. "Special Animals" is a general term that refers to all the taxa the CNDDB is interested in tracking, regardless of their legal or protection status. This list is also referred to as the list of "species at risk" or "special status species." The CDFW considers the taxa on this list to be those of greatest conservation need.

Of the 16 state and/or federally listed (or state candidate) species documented within the Joshua Tree South, Myoma, East Deception Canyon, Seven Palms Valley, Morongo Valley, Desert Hot Springs, Yucca Valley South, Cathedral City and Palm Springs quads, the following six state and/or federally listed (or state candidate) species have been documented in the Project vicinity (within approximately 3 miles):

- Coachella Valley milk-vetch (*Astragalus lentiginosus* var. *coachellae;* FE)

- Triple-ribbed milk-vetch (*Astragalus tricarinatus;* FE)
- Burrowing owl (*Athene cunicularia* [BUOW]; SCE)
- Mojave desert tortoise (*Gopherus agassizii;* FT, CT)
- Coachella Valley fringe-toed lizard (*Uma inornata;* FT, CE)
- Least Bell's vireo (*Vireo bellii pusillus;* FE, CE)

However, the Project Area consists entirely of residential development and the habitat requirements for these species are absent from the proposed impact area. The habitat within the undeveloped portions of the Project Area is disturbed and highly fragmented, and the aeolian sand dune habitat that Coachella Valley fringe-toed lizard and Coachella Valley milk-vetch require are absent from the Project Area and immediate vicinity, as well as the rocky slopes required for triple-ribbed milk-vetch. The Project Area is not suitable to support Mojave desert tortoise (due to disturbance and habitat fragmentation) or least Bell's vireo (due to absence of riparian habitat) and these species are not expected to occur within or adjacent the Project Area.

BUOW have been documented adjacent to Areas A, G, K,. I-10. BUOW tolerate some degree of human disturbance. However, there is little suitable BUOW habitat within or adjacent the Project Area, due to development and habitat fragmentation. Additionally, few fossorial mammal burrows were detected during the reconnaissance survey; BUOW do not create their own burrows and therefore require mammal burrows, and no BUOWs or BUOW sign was detected during the survey. BUOW may occur within the Project Area due to the proximity of documented occurrences and the species' ability to tolerate human disturbance, but their potential to occur within the Project Area is low.

3.2.1 Special Status Species

No state and/or federally listed threatened or endangered species, or other sensitive species were observed within the Project Area during the reconnaissance-level field survey and due to the environmental conditions within and adjacent the proposed Project footprint, none are expected to occur with the exception of BUOW, which has a low potential to occur within the Project Area. An analysis of the likelihood and potential for occurrence of all CNDDB sensitive species is documented (**Appendix A**, *Special-Status Species and Potential to Occur in the Vicinity of the Project Area*). The analysis considers species' range as well as documentation within the vicinity of the Project Area. It also includes the habitat requirements for each species and the potential for their occurrence on site, based on required habitat elements and range relative to the current site conditions.

3.2.2 Special Status Habitats

The Project Area does not contain any sensitive habitats or USFWS designated Critical Habitat for any federally listed species. However, the nearest Critical Habitat unit is adjacent to Area A. This Critical Habitat unit is part of the Mission Creek Morongo Wash System (Unit 3) for the federally listed endangered Coachella Valley milk-vetch. However, no portion of the Project Area is within Critical Habitat or sensitive habitat. Therefore, the Project will not result in any loss or adverse modification of USFWS designated Critical Habitat, or any other special status habitats.

3.3. Jurisdictional Delineation

The Project Area is within two Hydrologic Sub-Areas: Miracle Hill (HSA 719.43) and Mission Creek (HSA 719.42). The Miracle Hill HSA comprises a 44,525-acre drainage area and Mission Creek comprises a 73,871-acre drainage area; both HSAs are within the larger Whitewater River Watershed (HUC 18100201). This watershed is primarily within Riverside County, with a small portion in San Bernardino County. The Whitewater River Watershed is bound on the north by the Santa Ana and Southern Mojave Watersheds, on the southeast by the Salton Sea Watershed, on the southwest by the San Felipe Creek and Santa Margarita Watersheds, and on the west by the San Jacinto Watershed. The Whitewater River Watershed encompasses a portion of the San Bernardino and Little San Bernardino Mountains to the north and the San Jacinto Mountains to the south and is approximately 1,500 square miles in area. The Whitewater River is the major hydrogeomorphic feature within the Whitewater River Watershed. The nearest tributary to the Whitewater River is Big Morongo Wash just west of Area A and Little Morongo Creek which travels through Area A as a highly altered swale entering and exiting a golf course.

The swale feature includes indicators of hydrology, including sedimentation and flow patterns with a weak ordinary high water mark upstream and downstream of the paved road, along with flow pattern indications on the paved road, the feature has the potential to be a waters of the State regulated under the Porter-Cologne Water Quality Control Act. Because the paved road previously impacted the feature, any impacts to the swale across the paved road would result in no loss of functions and would not result in a discharge of fill material. As a result, impacts to the paved road would only require implementation of best management practices to avoid discharges of fill to nearby upstream and downstream portions of the swale.

3.2.3 Waters of the United States

The USACE has authority to regulate the discharge of dredged or fill material in WOTUS under Section 404 of the CWA. The U.S. Environmental Protection Agency (EPA) and USACE 'Waters of the United States,' Conforming Rule is defined generally as territorial seas, interstate waters, tributaries that are relatively permanent, standing or continuously flowing bodies of waters, wetlands adjacent to regulated waters, and intrastate lakes and ponds. The Conforming Rule specifically excludes from the definition of WOTUS:

1) Waste treatment systems, including treatment ponds or lagoons, designed to meet the requirements of the Clean Water Act;
2) Prior converted cropland designated by the Secretary of Agriculture. The exclusion would cease upon a change of use, which means that the area is no longer available for the production of agricultural commodities. Notwithstanding the determination of an area's status as prior converted cropland by any other Federal agency, for the purposes of the Clean Water Act, the final authority regarding Clean Water Act jurisdiction remains with EPA;
3) Ditches (including roadside ditches) excavated wholly in and draining only dry land and that do not carry a relatively permanent flow of water;
4) Artificially irrigated areas that would revert to dry land if the irrigation ceased;
5) Artificial lakes or ponds created by excavating or diking dry land to collect and retain water and which are used exclusively for such purposes as stock watering, irrigation, settling basins, or rice growing;
6) Artificial reflecting or swimming pools or other small ornamental bodies of water created by excavating or diking dry land to retain water for primarily aesthetic reasons;
7) Waterfilled depressions created in dry land incidental to construction activity and pits excavated in dry land for the purpose of obtaining fill, sand, or gravel unless and until the construction or excavation operation is abandoned and the resulting body of water meets the definition of waters of the United States; and
8) Swales and erosional features (*e.g.,* gullies, small washes) characterized by low volume, infrequent, or short duration flow.

Areas meeting all three wetland parameters (i.e. hydrophytic vegetation, hydric soils and wetland hydrology) and are adjacent to other jurisdictional waters would be designated as USACE wetlands. As described in the EPA/USACE 'Memorandum To The Field Between The U.S. Department Of The Army, U.S. Army Corps Of Engineers And The U.S. Environmental Protection Agency Concerning The Proper Implementation Of "Continuous Surface Connection" Under The Definition Of "Waters Of The United States" Under The Clean Water Act' (dated March 12, 2025) an adjacent wetland is where there is a 'continuous surface connection to a requisite covered water making it difficult to determine where the water ends and wetland begins.'

There are no wetland or non-wetland WOTUS within the Project Area. Because all aquatic resources have ephemeral flow durations, none are relatively permanent waters and therefore are not federal WOTUS. Therefore, the Project will not result in any permanent or temporary impacts to WOTUS.

3.2.4 State Lake/Streambed

Little Morongo Creek is an ephemeral drainage that originates in the hills north of the Project Area. The creek runs southwest into a wide concrete-sided channel just north of Area A, and crosses Augusta Avenue into the north side of Area A via a concrete Arizona crossing during high flows. Once within Area A, the creek enters an area of mowed lawn with concrete walls along the margins for a short distance before entering the golf course. Project-related ground disturbance is proposed for Augusta Avenue. A second Arizona crossing on the southern side of Area A

conveys high flows out of the Project Area and across Mission Lakes Boulevard into the existing continuation of Little Morongo Creek; no Project-related ground disturbance is proposed for Mission Lakes Boulevard, so the Arizona crossing at the south end of Area A will not be impacted by the Project.

The at-grade 'Arizona' stream crossing of Little Morongo Creek at Augusta Avenue, subject to RWQCB Porter-Cologne Water Quality Control Act, and Section 1602 of the California Fish and Game Code regulated by CDFW.

3.4. Land Use Designations

3.2.5 Coachella Valley MSHCP

The County of Riverside developed the CVMSHCP to enhance and maintain biological diversity and ecosystem processes while allowing future economic growth. The CVMSHCP sets Conservation Goals and Objectives to ensure the conservation of the Covered Species and conserved natural communities in the MSHCP Reserve System. In addition to setting Conservation Goals and Objectives for the Covered Species and conserved natural communities, the MSHCP has designated Core Habitat, Other Conserved Habitat, Essential Ecological Processes, and Biological Corridors and Linkages. The CVMSHCP area is divided into Conservation Areas based on a combination of ecological and jurisdictional factors. The CVMSHCP is intended to satisfy the legal requirements to authorize the "take" of species covered under the Plan during otherwise lawful activities, by providing for the conservation of the Covered Species.

The Project Area is outside any CVMSHCP Conservation Areas, the nearest Conservation Area is along the southern border of Area A and the northern border of Area K (Upper Mission Creek/Big Morongo Canyon Conservation Area (**Figure 4a**). Additionally, The Upper Mission Creek/Big Morongo Canyon Conservation Area boarder the easter side of the 1-10 Area. Although none of theI-10 Area propose disturbance areas occur with a conservation area, the portion of the I-10 Area that is south of I-10 is within the Santa Rosa and Saj Jacinto Conservation Area.

the Project as described, would be consistent with the Conservation Goals and Objectives set forth in the CVMSHCP, and no conservation lands or avoidance measures are expected to be required. However, the project is within the CVMSHCP boundary. Although the project site is not within any Conservation Areas and will not impact any Essential Ecological Processes or Biological Corridors and Linkages, the project site is adjacent (west of) the two Conservation Areaa. Therefore, the project will need to conform with the Guidelines for projects that are adjacent CVMSHCP Conservation Areas. Section 4.5 of the CVMSHCP identifies guidelines to avoid or minimize indirect effects from development sharing a common boundary with Conservation Areas. These Guidelines are designed to minimize the edge effects, and shall be implemented where applicable:

4.5.1 Drainage

Proposed Development adjacent to or within a Conservation Area shall incorporate plans to ensure that the quantity and quality of runoff discharged to the adjacent Conservation Area is not altered in an adverse way when compared with existing conditions. Stormwater systems shall be designed to prevent the release of toxins, chemicals, petroleum products, exotic plant materials or other elements that might degrade or harm biological resources or ecosystem processes within the adjacent Conservation Area.

4.5.2 Toxics

Land uses proposed adjacent to or within a Conservation Area that use chemicals or generate bioproducts such as manure that are potentially toxic or may adversely affect wildlife and plant species, Habitat, or water quality shall incorporate measures to ensure that application of such chemicals does not result in any discharge to the adjacent Conservation Area.

4.5.3 Lighting

For proposed Development adjacent to or within a Conservation Area, lighting shall be shielded and directed toward the developed area. Landscape shielding or other appropriate methods shall be incorporated in project designs to minimize the effects of lighting adjacent to or within the adjacent Conservation Area in accordance with the guidelines to be included in the Implementation Manual.

4.5.4 Noise

Proposed Development adjacent to or within a Conservation Area that generatesnoise in excess of 75 dBA Leq hourly shall incorporate setbacks, berms, or walls, as appropriate, to minimize the effects of noise on the adjacent Conservation Area in accordance with the guidelines to be included in the Implementation Manual.

4.5.5 Invasives

Invasive, non-native plant species shall not be incorporated in the landscape for land uses adjacent to or within a Conservation Area. Landscape treatments within or adjacent to a Conservation Area shall incorporate native plant materials to the maximum extent Feasible; recommended native species are listed in Table 4-112. The plants listed in Table 4-113 shall not be used within or adjacent to a Conservation Area. This list may be amended from time to time through a Minor Amendment with Wildlife Agency Concurrence

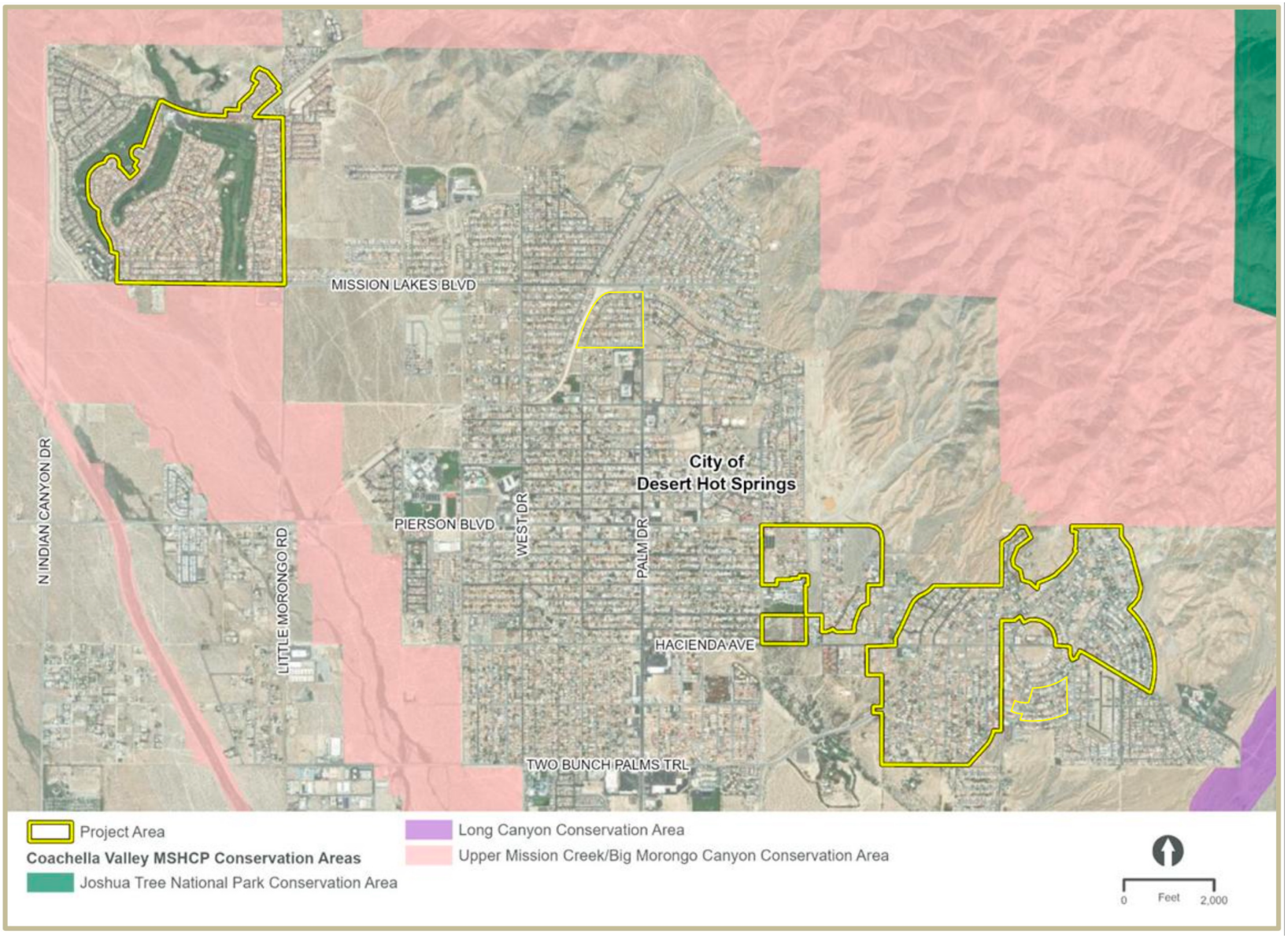


Figure 4a.
CVMSHCP Conservation Areas
MSWD Project Area Sewer Improvements Project

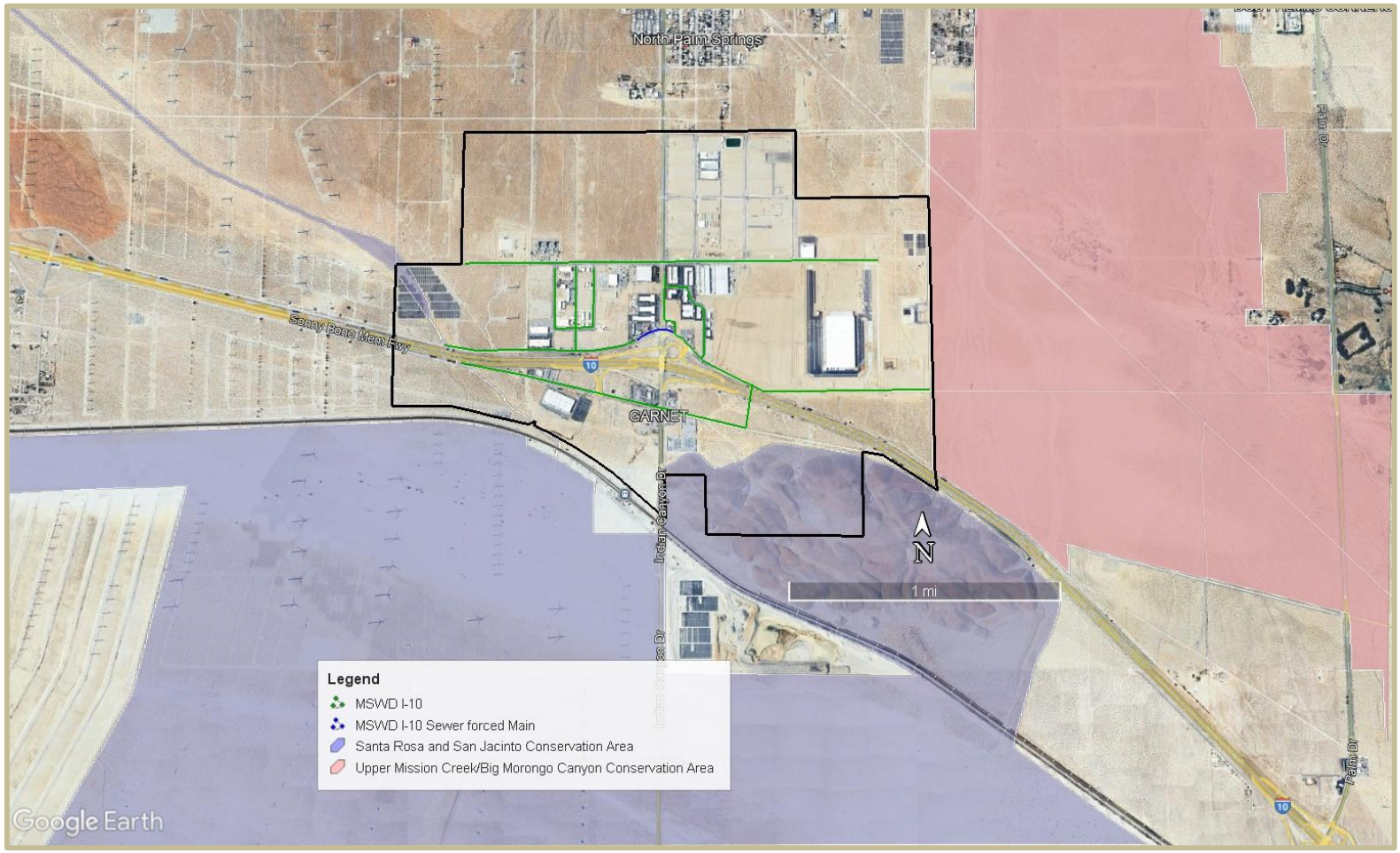


Figure 4b.
CVMSHCP Conservation Areas
MSWD Project Area Sewer Improvements Project

4. Conclusions and Recommendations

4.1. Sensitive Biological Resources

No sensitive species were observed within the Project Area during the field survey and due to the environmental conditions on site, none are expected to occur except BUOW, which has a low potential to occur. The Project Area is completely disturbed, consisting of paved streets and previously graded, compact, and otherwise disturbed bare ground (see attached Site Photos). Existing disturbances within the immediate Project Area are primarily associated with residential development and paved roadways, and habitat within the Project Area is highly fragmented. Due to the environmental conditions on site and the adjacent disturbances, the Project Area is likely not suitable to support most of the special status plant and wildlife species that have been documented in the Project vicinity (within approximately 3 miles), including the federally listed as endangered Coachella Valley milk-vetch, the federally listed as endangered triple-ribbed milk-vetch, the state and federally listed as threatened Mojave desert tortoise, the state listed as endangered and federally listed as threatened Coachella Valley fringe-toed lizard, and the state and federally listed as endangered least Bell's vireo.

The CESA candidate for listing, endangered BUOW, has the potential to occur within the Project Area due to the proximity of documented occurrences and the species' ability to tolerate some degree of human disturbance; however the potential for occurrence is low due to habitat fragmentation and scarcity of burrows. No BUOW or BUOW signs were observed during the survey. Provided Project activities are restricted to the existing paved roadways, impacts to BUOW can be avoided through implementation of the avoidance and minimization measures provided below for nesting birds.

The Project Area does not contain any USFWS designated Critical Habitat for any federally listed species, therefore, the Project will not result in any loss or adverse modification of Critical Habitat. Additionally, the Project will not impact any CVMSHCP Conservation Areas. The Coachella Valley milk-vetch, Mojave desert tortoise, Peninsular bighorn sheep, burrowing owl, least Bell's vireo, southwester willow flycatcher and Coachella Valley fringe-toed lizard are all CVMSHCP Covered Species (CVAG 2007). The CVMSHCP provides "take" authorization for Covered Species during otherwise lawful activities, by providing for the conservation of the Covered Species. The District and the City of Desert Hot Springs are both signatories to the CVMSHCP. Since the Coachella Valley milk-vetch, triple-ribbed milk-vetch, Mojave desert tortoise, Peninsular bighorn sheep, southwester willow flycatcher, Coachella Valley fringe-toed lizard, least Bell's vireo, and BUOW are all Covered Species under the CVMSHCP and the Project will not impact any MSHCP Conservation Areas or USFWS designated Critical Habitat for Coachella Valley milk-vetch, "take" authorization is provided for any potential Project-related impacts to these species that may occur.

3.2.6 Nesting Birds

Habitat within the Project Area includes suitable to support nesting birds, including both vegetation and man-made structures. Most native bird species are protected from unlawful take by the MBTA (**Appendix C,** *Regulatory Framework*). In December 2017, the Department of the Interior (DOI) issued a memorandum concluding that the MBTA's prohibitions on take apply "[…] only to affirmative actions that have as their purpose the taking or killing of migratory birds, their nests, or their eggs" (DOI 2017). Then in April 2018, the USFWS issued a guidance memorandum that further clarified that the take of migratory birds or their active nests (i.e., with eggs or young) that is incidental to, and not the purpose of, an otherwise lawful activity does not constitute a violation of the MBTA (USFWS 2018).

However, the State of California provides additional protection for native bird species and their nests in the California Fish and Game Code**.** Bird nesting protections in the California Fish and Game Code include the following (Sections 3503, 3503.5, 3511, 3513 and 3800):

- Section 3503 prohibits the take, possession, or needless destruction of the nest or eggs of any bird.
- Section 3503.5 prohibits the take, possession, or needless destruction of any nests, eggs, or birds in the orders Falconiformes (new world vultures, hawks, eagles, ospreys, and falcons, among others), and Strigiformes (owls).

- Section 3511 prohibits the take or possession of Fully Protected birds.
- Section 3513 prohibits the take or possession of any migratory nongame bird or part thereof, as designated in the MBTA. To avoid violation of the take provisions, it is generally required that Project-related disturbance at active nesting territories be reduced or eliminated during the nesting cycle.
- Section 3800 prohibits the take of any non-game bird (i.e., bird that is naturally occurring in California that is not a gamebird, migratory game bird, or fully protected bird).

In general, impacts to all bird species (common and special status) can be avoided by conducting work outside of the nesting season, which is generally February 1st through August 31st. However, if all work cannot be conducted outside of nesting season, the following is recommended:

- To avoid impacts to nesting birds (common and special status) during the nesting season, a qualified avian biologist should conduct pre-construction nesting bird surveys prior to Project-related disturbance to suitable nesting areas to identify any active nests. If no active nests are found, no further action would be required. If an active nest is found, the biologist should set appropriate no-work buffers around the nest which would be based upon the nesting species, its sensitivity to disturbance, nesting stage and expected types, intensity and duration of disturbance. The nest(s) and buffer zones should be field checked weekly by a qualified biological monitor. The approved no-work buffer zone should be clearly marked in the field, within which no disturbance activity should commence until the qualified biologist has determined the young birds have successfully fledged and the nest is inactive.

4.2. Jurisdictional Aquatic Resources

In addition to the BRA survey, the project areas was for the presence of any state and/or federal jurisdictional waters. The result of the jurisdictional waters assessment is that there are no wetland or non-wetland WOTUS or waters of the State potentially subject to regulation by the USACE under Section 404 of the CWA. However, as discussed in Section 3.3 above, Little Morongo Creek crosses Augusta Avenue, which is within the Project's disturbance footprint, at an Arizona crossing that may fall under the jurisdiction of the RWQCB under Section 401 of the CWA and/or Porter Cologne Water Quality Control Act, or the CDFW under Section 1602 of the California Fish and Game Code. Therefore, the Project may impact RWQCB/CDFW jurisdictional waters and state jurisdictional waters permitting may be required.

4.3. Land Use Designations

The Project is within the CVMSHCP boundary but is outside any CVMSHCP Conservation Areas. The nearest Conservation Areas is the Upper Mission Creek/Big Morongo Canyon Conservation Area, which is north-adjacent to Area K and south-adjacent to Area A and south and east from Area I-10 (**Figures 4a and 4b**). The Project Proponent should be prepared to pay the MSHCP fees and restrict all Project related impacts to existing right-of-way and/or other areas outside of the Conservation Areas. Additionally, in areas adjacent to CVMSHCP Conservation Areas, the Project Proponent should evaluate the Proposed Project's potential for edge effects in accordance with the Land Use Adjacency Guidelines outlined in Sectiuon 4.5 of the Final Major Amendment to the CVMSHCP – August 2016.

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Appendix A.
Special-Status Species and Potential to Occur in the Vicinity of the Project Area

Special Status Species Occurrence Potential Analysis

Scientific Name	Common Name	Listing Status Federal/ State	Habitat	Occurrence Potential
Abronia villosa var. aurita	Chaparral sand verbena	US: None CA: None CNPS: 1B.1	Annual herb. Sandy soils in chaparral, coastal scrub, and desert dunes. Found at 75 to 1,600 meters (246 to 5,249 feet) above MSL. Blooms January through September.	Not Expected: The Project footprint is within existing paved roads and previously graded, compact bare ground.
Acmispon haydonii	Pygmy lotus	US: None CA: None CNPS: 1B.3	Perennial herb. Occurs in rocky Sonoran desert scrub and pinyon and juniper woodland from 520 to 1200 meters (1705 to 3935 feet) above MSL. Blooms January through June.	Not Expected. Site below known elevational range.
Allium atrorubens var. cristatum	Inyo onion	US: None CA: None CNPS: 4.3	Perennial bulbiferous herb. Occurs in sometimes rocky or sandy Joshua tree "woodland", Mojavean desert scrub, pinyon and juniper woodland from 1200 to 2560 meters (3935 to 8400 feet) above MSL. Blooms April through June.	Not Expected. Site below known elevational range.
Allium parishii	Parish's onion	US: None CA: None CNPS: 4.3	Perennial bulbiferous herb. Occurs in rocky Joshua tree "woodland", Mojavean desert scrub, pinyon and juniper woodland from 900 to 1735 meters (2955 to 5695 feet) above MSL. Blooms April through May.	Not Expected. Site below known elevational range.
Almutaster pauciflorus	Alkali marsh aster	US: None CA: None CNPS: 2B.2	Perennial herb. Occurs in alkaline meadows and seeps from 240 to 800 meters (785 to 2625 feet) above MSL. Blooms June through October.	Not Expected: The Project footprint is within existing paved roads and previously graded, compact bare ground.
Aloysia wrightii	Wright's beebrush	US: None CA: None CNPS: 4.3	Perennial evergreen shrub. Occurs in rocky, often carbonate Josua tree "woodland" and pinyon and juniper woodland from 900 to 1600 meters (2955 to 5250 feet) above MSL. Blooms April through October.	Not Expected. Site below known elevational range.
Ambrosia monogyra	Singlewhorl burrobrush	US: None CA: None CNPS: 2B.2	Perennial shrub. Occurs in sandy chaparral and Sonoran desert scrub from 10 to 500 meters (35 to 1640 feet) above MSL. Blooms August through November.	Not Expected: The Project footprint is within existing paved roads and previously graded, compact bare ground.

Scientific Name	Common Name	Listing Status Federal/ State	Habitat	Occurrence Potential
Anniella stebbinsi	Southern California legless lizard	US: None CA: SSC	Found in moist, warm, loose soil in sparsely vegetated coastal sand dunes, sandy washes, alluvial fans, chaparral, and stream terraces with sycamores, cottonwoods, or oaks. Leaf litter under trees and bushes in sunny areas and dunes stabilized with bush lupine and mock heather often indicate suitable habitat. Often can be found under surface objects such as rocks, boards, driftwood, and logs.	Not Expected: The Project Area is within an urban environment and due to existing human disturbances and poor habitat quality, this species not expected to occur within or adjacent the Project Area.
Antrozous pallidus	Pallid bat	US: None CA: SSC	Most common in open, dry habitats with rocky areas for roosting. Day roosts in caves, crevices, rocky outcrops, tree hollows or crevices, mines and occasionally buildings, culverts, and bridges. Night roosts may include more open sites, such as porches and open buildings. Occurs in grasslands, shrublands, woodlands, and forest in western North America. Active year-round, nocturnal.	Not Expected: The Project Area is within an urban environment and due to existing human disturbances and poor habitat quality, this species not expected to occur within or adjacent the Project Area.
Aquila chrysaetos	golden eagle	US: None CA: FP	Rolling foothills, mountain areas, sage- juniper flats, and desert. Cliff-walled canyons provide nesting habitat in most parts of range; also, large trees in open areas.	Not Expected: The Project Area is within an urban environment and there are no suitable nesting sites for this species within the Project Area.
Asio otus	Long-eared owl	US: None CA: SSC	Species known to be widespread and a winter migrant of the Central Valley, the western Sierra Nevada foothills, and along the California coastline. Requires dense stands of vegetation including various grasses and brush, as well as ditches, and wetlands for resting and roosting. Species known to nest on dry ground concealed in vegetation.	Not Expected: The Project Area is within an urban environment and due to existing human disturbances and poor habitat quality, this species not expected to occur within or adjacent the Project Area.
Astragalus bernardinus	San Bernardino milk-vetch	US: None CA: None CNPS: 1B.2	Perennial herb. Often in granitic or carbonate soils in Joshua tree woodland and Pinyon and juniper woodland from 900 to 2,000 meters (2,955 to 6,560 feet) above MSL. Blooms April through June.	Not Expected. Site below known elevational range.
Astragalus hornii var. hornii	Horn's milk-vetch	US: None CA: None CNPS: 1B.1	Annual herb. Occurs in meadows and seeps and playas from 60 to 850 meters (195 to 2,790 feet) above MSL. Blooms May through October.	Not Expected: The Project footprint is within existing paved roads and previously graded, compact bare ground.

Scientific Name	Common Name	Listing Status Federal/ State	Habitat	Occurrence Potential
Astragalus lentiginosus var. coachellae	Coachella Valley milk-vetch	US: FE CA None: CNPS: 1B.2	Annual/perennial herb. Occurs in desert dunes and sandy Sonoran desert scrub from 40 to 655 meters (130 to 2,150 feet) above MSL. Blooms February through May	Not Expected: The Project footprint is within existing paved roads and previously graded, compact bare ground.
Astragalus tricarinatus	triple-ribbed milk- vetch	US: FE CA None: CNPS: 1B.2	Perennial herb. Occurs in Joshua tree woodland, Sonoran desert scrub. Hot, rocky slopes in canyons and along edge of boulder-strewn desert washes, with *Larrea* and *Encelia* from 450 to 1190 meters (1475 to 3905 feet) above MSL. Blooms February through May.	Not Expected: The Project footprint is within existing paved roads and previously graded, compact bare ground.
Athene cunicularia	burrowing owl	US: None CA: SCE	Open, dry annual or perennial grasslands, deserts, and scrublands characterized by low-growing vegetation. Subterranean nester, dependent upon burrowing mammals, most notably, the California ground squirrel.	**Low Potential**: This species is able to tolerate some human disturbance/development and there are multiple documented occurrences of the species adjacent to the Project Area, however habitat is fragmented, and only a few mammal burrows were observed during the survey.
Atriplex parishii	Parish's brittlescale	US: FE CA: None CNPS: 1B.1	Annual herb. Occurs in alkaline chenopod scrub, playas and vernal pools from 25 to 1900 meters (80 to 6235 feet) above MSL. Blooms June through October.	Not Expected: The Project footprint is within existing paved roads and previously graded, compact bare ground.
Ayenia compacta	California ayenia	US: None CA: None CNPS: 2B.3	Perennial herb. Occurs in rocky soils in Mojavean desert scrub and Sonoran desert scrub habitats from 150 to 1,095 meters (490 to 3,595 feet) above MSL. Blooms March through April.	Not Expected: The Project footprint is within existing paved roads and previously graded, compact bare ground.
Boechera dispar	Pinyon rockcress	US: None CA: None CNPS: 2B.3	Perennial herb. Occurs in granitic, gravelly Joshua tree "woodland", Mojavean desert scrub and pinyon and juniper woodland from 1200 to 2540 meters (3935 to 8335 feet) above MSL. Blooms March through June.	Not Expected. Site below known elevational range.
Boechera lincolnensis	Lincoln rockcress	US: None CA: None CNPS: 2B.3	Perennial herb. Occurs in carbonate chenopod scrub and Mojavean desert scrub from 1100 to 2705 meters (3610 to 8875 feet) above MSL. Blooms March through May.	Not Expected. Site below known elevational range.

Scientific Name	Common Name	Listing Status Federal/ State	Habitat	Occurrence Potential
Bombus crotchii	Crotch's bumble bee	US: None CA: SCE	Found between San Diego and Redding in a variety of habitats including open grasslands, shrublands, chaparral, desert margins including Joshua tree and creosote scrub, and semi-urban settings. It is near endemic to California, with only a few records from Nevada and Mexico (CDFW 2022). Williams et al. (2014) report plants in the genera *Asclepias*, *Chaenactis*, *Lupinus*, *Medicago*, *Phacelia*, and *Salvia* as example food plants.	Not Expected: The Project Area is within an urban environment and due to existing human disturbances and poor habitat quality, this species not expected to occur within or adjacent the Project Area.
Calochortus palmeri var. palmeri	Palmer's mariposa-lily	US: None CA: None CNPS: 1B.2	Perennial bulbiferous herb. Occurs in mesic chaparral, lower montane coniferous forest, meadows and seeps from 710 to 2390 meters (2330 to 7840 feet) above MSL. Blooms April through July.	Not Expected. Site below known elevational range.
Caulanthus simulans	Payson's jewelflower	US: None CA: None CNPS: 4.2	Annual herb. Occurs in granitic, sandy, chaparral and coastal scrub from 90 to 2200 meters (295 to 7220 feet) above MSL. Blooms February through June.	Not Expected: The Project footprint is within existing paved roads and previously graded, compact bare ground.
Chorizanthe parryi var. parryi	Parry's spineflower	US: None CA: None CNPS: 1B.1	Annual herb. Occurs in openings and sometimes rocky and sandy chaparral, cismontane woodland, coastal scrub and valley and foothill grassland from 275 to 1220 meters (900 to 4005 feet) above MSL. Blooms April through June.	Not Expected: The Project footprint is within existing paved roads and previously graded, compact bare ground.
Chorizanthe xanti var. leucotheca	white-bracted spineflower	US: None CA: None CNPS: 1B.2	Annual herb. Mojavean desert scrub, pinyon and juniper woodland, coastal scrub (alluvial fans). Sandy or gravelly places. 300 to 1200 m (985 to 3935 feet) above MSL. Blooms April through June.	Not Expected: The Project footprint is within existing paved roads and previously graded, compact bare ground.
Cordylanthus eremicus ssp. eremicus	Desert bird's beak	US: None CA: None CNPS: 4.3	Annual herb (hemiparasitic). Occurs in Joshua tree "woodland", Mojavean desert scrub, pinyon and juniper woodland from 1000 to 3000 meters (3280 to 9845 feet) above MSL. Blooms July through October.	Not Expected. Site below known elevational range.
Corynorhinus townsendii	Townsend's big- eared bat	US: None CA: SSC	Throughout California in a wide variety of habitats. Most common in mesic sites. Roosts in the open, hanging from walls and ceilings. Roosting sites limiting. Extremely sensitive to human disturbance.	Not Expected: The Project Area is within an urban environment and due to existing human disturbances and poor habitat quality, this species not expected to occur within or adjacent the Project Area.

Scientific Name	Common Name	Listing Status Federal/ State	Habitat	Occurrence Potential
Crotalus ruber	red-diamond rattlesnake	US: None CA: SSC	Chaparral, woodland, grassland, and desert areas from coastal San Diego County to the eastern slopes of the mountains. Occurs in rocky areas and dense vegetation. Needs rodent burrows, cracks in rocks or surface cover objects.	Not Expected: The Project Area is within an urban environment and due to existing human disturbances and poor habitat quality, this species not expected to occur within or adjacent the Project Area.
Cuscuta californica var. apiculata	Pointed dodder	US: None CA: None CNPS: 3	Annual vine (parasitic). Occurs in Mojavean desert scrub and Sonoran desert scrub from 0 to 500 meters (0 to 1,640 feet) above MSL. Blooms February through August.	Not Expected: The Project footprint is within existing paved roads and previously graded, compact bare ground.
Cyprinodon macularius	Desert pupfish	US: FE CA: CE	Springs, seeps, and slow-moving streams, as well as backwaters and sloughs.	Not Expected: The Project Area is within an urban environment and due to existing human disturbances and poor habitat quality, this species not expected to occur within or adjacent the Project Area.
Cypseloides niger	Black swift	US: None CA: SSC	Found in open skies over mountains and coastal cliffs. Forages widely over any kind of terrain. Nests on ledges or in crevices in steep cliffs, either along coast or near streams or waterfalls in mountains. Summer resident in parts of California, mostly migrates to and from breeding grounds in British Columbia and Washington.	Not Expected: The Project Area is within an urban environment and due to existing human disturbances and poor habitat quality, this species not expected to occur within or adjacent the Project Area.
Danaus Plexippus	Monarch Butterfly	US: PT CA: None	Typically overwinter in groves of eucalyptus (*Eucalyptus* sp.), Monterey pine (*Pinus radiata*), or Monterey cypress (*Hesperocyparis macrocarpa*) along the California coast. Adult females lay eggs on milkweed species (*Asclepias* spp.). Milkweeds are critical for successful development of the caterpillar into an adult butterfly (Western Monarch Milkweed Mapper 2025).	Not Expected. The site does not contain suitable overwintering or milkweed habitat to support this species.
Dinacoma caseyi	Casey's June beetle	US: FE CA: None	Found in alluvial fans, river wash areas and associated desert wash and desert scrub vegetation.	Not Expected: The Project Area is within an urban environment and due to existing human disturbances and poor habitat quality, this species not expected to occur within or adjacent the Project Area.

Scientific Name	Common Name	Listing Status Federal/ State	Habitat	Occurrence Potential
Dodecahema leptoceras	slender-horned spineflower	US: FE CA: CE CNPS: 1B.1	Annual herb. Chaparral, cismontane woodland, coastal scrub (alluvial fan sage scrub). Flood deposited terraces and washes; associates include *Encelia, Dalea, Lepidospartum*, etc. Sandy soils. 200 to 765 meters (655 to 2495 feet) above MSL. Blooms April through June.	Not Expected: The Project footprint is within existing paved roads and previously graded, compact bare ground.
Empidonax traillii extimus	Southwestern willow flycatcher	US: FE CA: CE	Requires extensive, dense riparian areas with willows or tamarisk. Require standing water.	Not Expected: The Project Area is within an urban environment and due to existing human disturbances and poor habitat quality, this species not expected to occur within or adjacent the Project Area.
Eremothera boothii ssp. boothii	Booth's evening-primerose	US: None CA: None CNPS: 2B.3	Annual herb. Occurs in Joshua tree "woodland", Pinyon and juniper woodland habitat from 815 to 2,400 meters (2,675 to 7,875 feet) above MSL. Blooms April through September.	Not Expected. Site below known elevational range.
Eriastrum harwoodii	Harwood's eriastrum	US: None CA: None CNPS: 1B.2	Annual herb. Occurs in desert dunes. Sandy soils from 15 to 1100 meters (410 to 3000 feet) above MSL. Blooming period March through June.	Not Expected: The Project footprint is within existing paved roads and previously graded, compact bare ground.
Erigeron parishii	Parish's daisy	US: FT CA: None CNPS: 1B.1	Perennial herb. Occurs in usually carbonate and sometime granitic mojavean desert scrub, pinyon and juniper woodland habitat from 800 to 2,000 meters (2,625 to 6,560 feet) above MSL. Blooms May through August.	Not Expected. Site below known elevational range.
Eschscholzia androuxii	Joshua Tree poppy	US: None CA: None CNPS: 4.3	Annual herb. Occurs in desert washes of Joshua tree "woodland" and Mojavean desert scrub from 585 to 1685 meters (1920 to 5530 feet) above MSL. Blooms February through June.	Not Expected. Site below known elevational range.
Euphorbia abramsiana	Abrams' spurge	US: None CA: None CNPS: 2B.2	Annual herb. Occurs in Mojavean desert scrub and Sonoran desert scrub from -5 to 1,310 meters (-15 to 4,300 feet) above MSL. Blooms August through November	Not Expected: The Project footprint is within existing paved roads and previously graded, compact bare ground.
Euphorbia arizonica	Arizona spurge	US: None CA: None CNPS: 2B.3	Perennial herb. Occurs in sandy Sonoran desert scrub from 50 to 300 meters (165 to 985 feet) above MSL. Blooms March through April.	Not Expected: The Project footprint is within existing paved roads and previously graded, compact bare ground.

Scientific Name	Common Name	Listing Status Federal/ State	Habitat	Occurrence Potential
Euphorbia misera	cliff spurge	US: None CA: None CNPS: 2B.2	Perennial shrub. Occurs in rocky scrubs in coastal bluff scrub, coastal scrub, Mojavean desert scrub from 10 to 500 meters (35 to 1640 feet) above MSL. Blooms October, December through August.	Not Expected: The Project footprint is within existing paved roads and previously graded, compact bare ground.
Euphorbia platysperma	flat-seeded spurge	US: None CA: None CNPS: 1B.2	Annual herb. Occurs in desert dunes and sandy Sonoran desert scrub from 65 to 100 meters (215 to 330 feet) above MSL. Blooms February through September.	Not Expected: The Project footprint is within existing paved roads and previously graded, compact bare ground.
Galium angustifolium ssp. gracillimum	Slender bedstraw	US: None CA: None CNPS: 4.2	Perennial herb. Occurs in granitic or rocky Sonoran desert scrub and Joshua tree "woodland" from 130 to 1,550 meters (425 to 5,085 feet) above MSL. Blooms April through July.	Not Expected: The Project footprint is within existing paved roads and previously graded, compact bare ground.
Galium johnstonii	Johnston's bedstraw	US: None CA: None CNPS: 4.3	Perennial herb. Occurs in chaparral, lower montane coniferous forest, pinyon and juniper woodland and riparian woodland from 1220 to 2300 meters (4005 to 7545 feet) above MSL. Blooms June through July.	Not Expected. Site below known elevational range.
Gopherus agassizii	desert tortoise	US: FT CA: CT	Most common in desert scrub, desert wash, and Joshua tree habitats; occurs in almost every desert habitat. Require friable soil for burrow and nest construction. Creosote bush habitat with large annual wildflower blooms preferred.	Not Expected: The Project Area is within an urban environment and due to existing human disturbances and poor habitat quality, this species not expected to occur within or adjacent the Project Area.
Heuchera hirsutissima	Shaggy-haired alumroot	US: None CA: None CNPS: 1B.3	Perennial rhizomatous herb. Occurs in granitic, rocky subalpine coniferous forest and upper montane coniferous forest from 1520 to 3500 meters (4985 to 11485 feet) above MSL. Blooms May through July.	Not Expected. Site below known elevational range.
Horsfordia newberryi	Newberry's velvet-mallow	US: None CA: None CNPS: 4.3	Perennial shrub. Occurs in rocky Sonoran desert scrub from 3 to 800 meters (10 to 2,6250 feet) above MSL. Blooms February through December.	Not Expected: The Project footprint is within existing paved roads and previously graded, compact bare ground.
Hulsea vestita ssp. callicarpha	Beautiful hulsea	US: None CA: None CNPS: 4.2	Perennial herb. Occurs in granitic, sometimes gravelly and rocky chaparral and lower montane coniferous forest from 915 to 3050 meters (3000 to 10005 feet) above MSL. Blooms May through October.	Not Expected. Site below known elevational range.

Scientific Name	Common Name	Listing Status Federal/ State	Habitat	Occurrence Potential
Hulsea vestita ssp. parryi	Parry's sunflower	US: None CA: None CNPS: 4.3	Perennial herb. Occurs in openings, rocky and sometimes carbonate and granitic upper and lower montane coniferous forest and pinyon and juniper woodlands from 1370 to 2895 meters (4495 to 9500 feet) above MSL. Blooms April through August.	Not Expected. Site below known elevational range.
Icteria virens	Yellow-breasted chat	US: None CA: SSC	Riparian thickets of willow, brushy tangles near watercourses. Nests in riparian woodland throughout much of western North America. Winters in Central America.	Not Expected: The Project Area is within an urban environment and due to existing human disturbances and poor habitat quality, this species not expected to occur within or adjacent the Project Area.
Imperata brevifolia	California satintail	US: None CA: None CNPS: 2B.1	Perennial rhizomatous herb. Occurs in mesic chaparral, coastal scrub, Mojavean desert scrub, riparian scrub, meadows and seeps (often alkali) from 0 to 1215 meters (0 to 3985 feet) above MSL. Blooms September through May.	Not Expected: The Project footprint is within existing paved roads and previously graded, compact bare ground.
Johnstonella costata	Ribbed cryptantha	US: None CA: None CNPS: 4.3	Annual herb. Occurs in desert dunes, Mojavean desert scrub, Sonoran desert scrub from -60 to 500 meters (-195 to 1,640 feet) above MSL. Blooms February through May	Not Expected: The Project footprint is within existing paved roads and previously graded, compact bare ground.
Johnstonella holoptera	Winged cryptantha	US: None CA: None CNPS: 4.3	Annual herb. Occurs in Mojavean desert scrub, Sonoran desert scrub from 100 to 1,690 meters (330 to 5,545 feet) above MSL. Blooms March through April.	Not Expected: The Project footprint is within existing paved roads and previously graded, compact bare ground.
Juncus acutus ssp. leopoldii	Southwestern spiny rush	US: None CA: None CNPS: 4.2	Perennial rhizomatous herb. Occurs in coastal dunes (mesic), coastal scrub, meadows and seeps (alkaline seeps), marshes and swamps (coastal salt) from 3 to 900 meters (10 to 2,955 feet) above MSL. Blooms March through June.	Not Expected: The Project footprint is within existing paved roads and previously graded, compact bare ground.
Juncus cooperi	Cooper's rush	US: None CA: None CNPS: 4.3	Perennial herb. Occurs in meadows and seeps (mesic, alkaline or saline) from -260 to 1,770 meters (-855 to 5,805 feet) above MSL. Blooms April through August.	Not Expected: The Project footprint is within existing paved roads and previously graded, compact bare ground.

Scientific Name	Common Name	Listing Status Federal/ State	Habitat	Occurrence Potential
Lanius ludovicianus	Loggerhead shrike	US: None CA: SSC	Inhabits open country with short vegetation and well-spaced shrubs or low trees, particular those with spines or thorns. Frequent agricultural fields, pastures, old orchards, riparian areas, desert scrublands, savannas, prairies, golf courses, and cemeteries.	Not Expected: The Project Area is within an urban environment and due to existing human disturbances and poor habitat quality, this species not expected to occur within or adjacent the Project Area.
Lasiurus xanthinus	Western yellow bat	US: None CA: SSC	Arid to dry areas including savannas, secluded woodlands, pasture or croplands, and urban areas.	Not Expected: The Project Area is within an urban environment and due to existing human disturbances and poor habitat quality, this species not expected to occur within or adjacent the Project Area.
Lilium parryi	Lemon lily	US: None CA: None CNPS: 1B.2	Perennial bulbiferous herb. Occurs in mesic upper and lower montane coniferous forest, riparian forests, meadows and seeps from 1220 to 2745 meters (4005 to 9005 feet) above MSL. Blooms July through August.	Not Expected. Site below known elevational range.
Linanthus jaegeri	San Jacinto linanthus	US: None CA: None CNPS: 1B.2	Perennial herb. Occurs in granitic, rocky subalpine coniferous forest and upper montane coniferous forest from 2195 to 3050 meters (7200 to 10005 feet) above MSL. Blooms July through September.	Not Expected. Site below known elevational range.
Linanthus maculatus ssp. maculatus	Little San Bernardino Mtns. linanthus	US: None CA: None CNPS: 1B.2	Annual herb. Desert dunes, Sonoran desert scrub, Mojavean desert scrub, Joshua tree woodland. Sandy places. Usually in light-colored quartz sand; often in wash or bajada from 140 to 1220 meters (460 to 4005 feet) above MSL. Blooms March through May.	Not Expected: The Project footprint is within existing paved roads and previously graded, compact bare ground.
Lycium torreyi	Torrey's box-thorn	US: None CA: None CNPS: 4.2	Perennial shrub. Occurs in Mojavean desert scrub, Sonoran desert scrub from -50 to 1,220 meters (-165 to 4,005 feet) above MSL. Blooms January through November.	Not Expected: The Project footprint is within existing paved roads and previously graded, compact bare ground.
Mentzelia tricuspis	spiny-hair blazing star	US: None CA: None CNPS: 2B.1	Annual herb. Occurs in Mojavean desert scrub in Sandy or gravelly slopes and washes from 150 to 1280 meters (490 to 4200 feet) above MSL. Blooms March through May.	Not Expected: The Project footprint is within existing paved roads and previously graded, compact bare ground.

Scientific Name	Common Name	Listing Status Federal/ State	Habitat	Occurrence Potential
Monardella robisonii	Robinson's monardella	US: None CA: None CNPS: 1B.3	Perennial rhizomatous herb. Occurs in pinyon and juniper woodland habitat from 610 to 1,500 meters (2,000 to 4,920 feet) above MSL. Blooms February through October.	Not Expected. Site below known elevational range.
Nemacaulis denudata var. gracilis	slender cottonheads	US: None CA: None CNPS: 2B.2	Annual herb. Occurs in coastal dunes, desert dunes, Sonoran desert scrub, in dunes or sand from -50 to 400 meters (-165 to 1310 feet) above MSL. Blooms March through May.	Not Expected: The Project footprint is within existing paved roads and previously graded, compact bare ground.
Neotoma lepida intermedia	San Diego desert woodrat	US: None CA: SSC	Coastal scrub of Southern California from San Diego County to San Luis Obispo County. Moderate to dense canopies preferred. They are particularly abundant in rock outcrops, rocky cliffs, and slopes.	Not Expected: The Project Area is within an urban environment and due to existing human disturbances and poor habitat quality, this species not expected to occur within or adjacent the Project Area.
Nyctinomops femorosaccus	Pocketed free-tailed bat	US: None CA: SSC	Usually associated with cliffs, rock outcrops, or slopes. May roost in buildings (including roof tiles) or caves. Rare in California, where it is found in Riverside, San Diego, Imperial and possibly Los Angeles Counties. More common in Mexico. Year-round; nocturnal.	Not Expected: The Project Area is within an urban environment and due to existing human disturbances and poor habitat quality, this species not expected to occur within or adjacent the Project Area.
Nyctinomops macrotis	Big free-tailed bat	US: None CA: SSC	Rare in California. Roosts in buildings, caves, crevices of high cliffs and rock outcrops and occasionally in holes in trees. Often observed foraging over water sources.	Not Expected: The Project Area is within an urban environment and due to existing human disturbances and poor habitat quality, this species not expected to occur within or adjacent the Project Area.
Ovis canadensis nelsoni	desert bighorn sheep	US: None CA: FP	Widely distributed from the White Mountains in Mono County, to the Chocolate Mountains in Imperial County. Open, rocky, steep areas with available water and herbaceous forage.	Not Expected: The Project Area is within an urban environment and due to existing human disturbances and poor habitat quality, this species not expected to occur within or adjacent the Project Area.
Ovis canadensis nelsoni pop. 2	Peninsular bighorn sheep DPS	US: FE CA: FT, FP	Eastern slopes of the Peninsular Ranges below 4,600 ft elevation. This DPS of the subspecies inhabits the Peninsular Ranges in southern California from the San Jacinto Mountains south to the US-Mexico International Border. Optimal habitat includes steep walled canyons and ridges bisected by rocky or sandy washes, with available water.	Not Expected: The Project Area is within an urban environment and due to existing human disturbances and poor habitat quality, this species not expected to occur within or adjacent the Project Area.

Scientific Name	Common Name	Listing Status Federal/ State	Habitat	Occurrence Potential
Pelazoneuron puberulum var. sonorense	Sonoran maiden fern	US: None CA: None CNPS: 2B.2	Perennial rhizomatous herb. Occurs in meadows and seeps (seeps, streams) from 50 to 610 meters (165 to 2000 feet) above MSL. Blooms January through September.	Not Expected: The Project footprint is within existing paved roads and previously graded, compact bare ground.
Penstemon clevelandii var. connatus	San Jacinto beardtongue	US: None CA: None CNPS: 4.3	Perennial herb. Occurs in rocky chapparal, pinyon and juniper woodland and Sonoran desert scrub from 400 to 1500 meters (1310 to 4920 feet) above MSL. Blooms March through May.	Not Expected: The Project footprint is within existing paved roads and previously graded, compact bare ground.
Penstemon clevelandii var. mohavensis	Mojave beardtongue	US: None CA: None CNPS: 1B.2	Perennial herb. Occurs in often granitic and rocky Mojavean desert scrub and pinyon and juniper woodland from 925 to 1620 meters (3035 to 5315 feet) above MSL. Blooms March through May.	Not Expected. Site below known elevational range.
Perognathus longimembris bangsi	Palm Springs pocket mouse	US: None CA: SSC	Desert riparian, desert scrub, desert wash and sagebrush habitats. Most common in creosote-dominated desert scrub. Rarely found on rocky sites. Occurs in all canopy coverage classes.	Not Expected: The Project Area is within an urban environment and due to existing human disturbances and poor habitat quality, this species not expected to occur within or adjacent the Project Area.
Petalonyx linearis	Narrow-leaf sandpaper-plant	US: None CA: None CNPS: 2B.3	Perennial shrub. Occurs in Mojavean desert scrub, Sonoran desert scrub from -25 to 1,115 meters (-80 to 3,660 feet) above MSL. Blooms January through December.	Not Expected: The Project footprint is within existing paved roads and previously graded, compact bare ground.
Phrynosoma blainvillii	coast horned lizard	US: None CA: SSC	Frequents a wide variety of habitats, most common in lowlands along sandy washes with scattered low bushes. Open areas for sunning, bushes for cover, patches of loose soil for burial, and abundant supply of ants and other insects.	Not Expected: The Project Area is within an urban environment and due to existing human disturbances and poor habitat quality, this species not expected to occur within or adjacent the Project Area.
Phrynosoma mcallii	flat-tailed horned lizard	US: None CA: SSC	Restricted to desert washes and desert flats in central Riverside, eastern San Diego, and Imperial counties. Critical habitat element is fine sand, into which lizards burrow to avoid temperature extremes; requires vegetative cover and ants.	Not Expected: The Project Area is within an urban environment and due to existing human disturbances and poor habitat quality, this species not expected to occur within or adjacent the Project Area.
Piranga rubra	Summer tanager	US: None CA: SSC	Breeds in low-elevation willow and cottonwood woodlands and mesquite and saltcedar stands at higher elevations in the southwest.	Not Expected: The Project Area is within an urban environment and due to existing human disturbances and poor habitat quality, this species not expected to occur within or adjacent the Project Area.

Scientific Name	Common Name	Listing Status Federal/ State	Habitat	Occurrence Potential
Polioptila californica californica	Coastal California gnatcatcher	US: FT CA: SSC	Year-round resident that occurs in coastal sage scrub and valleys up to about 500 meters (1,640 feet).	Not Expected: The Project Area is within an urban environment and due to existing human disturbances and poor habitat quality, this species not expected to occur within or adjacent the Project Area.
Pyrocephalus rubinus	Vermilion flycatcher	US: None CA: SSC	Scrub, desert, cultivated lands, and riparian woodlands.	Not Expected: The Project Area is within an urban environment and due to existing human disturbances and poor habitat quality, this species not expected to occur within or adjacent the Project Area.
Rana draytonii	California red-legged frog	US: FT CA: SSC	Ponds/streams in humid forests, woodlands, grasslands, coastal scrub, and streamsides with plant cover in lowlands or foothills. Breeding habitat includes permanent or ephemeral water sources; lakes, ponds, reservoirs, slow streams, marshes, bogs, and swamps. Ephemeral wetland habitats require animal burrows or other moist refuges for estivation when the wetlands are dry. From sea level to 5,000 feet. Occurs along the Coast Ranges from Mendocino County south to northern Baja California, and inland across the northernmost reaches of the Sacramento Valley and locally south through portions of the Sierra Nevada foothills as far south as northern Tulare County.	Not Expected: The Project Area is within an urban environment and due to existing human disturbances and poor habitat quality, this species not expected to occur within or adjacent the Project Area.
Rana muscosa	Southern mountain yellow-legged frog	US: FE CA: CE	In Southern California, populations are restricted to perennial streams in ponderosa pine, montane hardwood-conifer, and montane riparian habitats. Isolated populations exist in the San Gabriel, San Bernardino, and San Jacinto mountains. Active from March (ice melt) to August. Adults hibernate during winter and some individuals in Southern California aestivate during late summer.	Not Expected: The Project Area is within an urban environment and due to existing human disturbances and poor habitat quality, this species not expected to occur within or adjacent the Project Area.
Saltugilia latimeri	Latimer's woodland-gilia	US: None CA: None CNPS: 1B.2	Annual herb. Occurs in granitic, rocky, sandy, washes in chaparral, Mojavean desert scrub and pinyon and juniper woodland habitats from 400 to 1,900 meters (1,310 to 6,235 feet) above MSL. Blooms March through June.	Not Expected: The Project Area is within an urban environment and due to existing human disturbances and poor habitat quality, this species not expected to occur within or adjacent the Project Area.

Scientific Name	Common Name	Listing Status Federal/ State	Habitat	Occurrence Potential
Selaginella eremophila	desert spike-moss	US: None CA: None CNPS: 2B.2	Perennial rhizomatous herb. Occurs in Sonoran desert scrub, chaparral. Shaded sites, gravelly soils; crevices or among rocks from 200 to 1295 meters (655 to 4250 feet) above MSL. Bloms May through July.	Not Expected: The Project footprint is within existing paved roads and previously graded, compact bare ground.
Setophaga petechia	Yellow warbler	US: None CA: SSC	Nests in riparian woodland, more widespread in brushy areas and woodlands during migration. Migrants are widespread and common.	Not Expected: The Project Area is within an urban environment and due to existing human disturbances and poor habitat quality, this species not expected to occur within or adjacent the Project Area.
Stemodia durantifolia	Purple stemodia	US: None CA: None CNPS: 2B.1	Perennial herb. Occurs in mesic or sandy soils in Sonoran desert scrub habitat from 180 to 300 meters (590 to 985 feet) above MSL. Blooms January through December.	Not Expected. Site above known elevational range.
Streptanthus campestris	Southern jewelflower	US: None CA: None CNPS: 1B.3	Perennial herb. Occurs in rocky chaparral, lower montane coniferous forest and pinyon and juniper woodland habitat from 900 to 2300 meters (2955 to 7545 feet) above MSL. Blooms April through July.	Not Expected. Site below known elevational range.
Taxidea taxus	American badger	US: None CA: SSC	Agricultural land, grassland and other open areas and brush lands with sparse groundcover.	Not Expected: The Project Area is within an urban environment and due to existing human disturbances and poor habitat quality, this species not expected to occur within or adjacent the Project Area.
Tetraoccus hallii	Hall's tetracoccus	US: None CA: None CNPS: 4.3	Perennial deciduous shrub. Occurs in Mojavean and Sonoran desert scrub from 30 to 1200 meters (100 to 3935 feet) above MSL. Blooms January through May.	Not Expected: The Project footprint is within existing paved roads and previously graded, compact bare ground.
Toxostoma Crissale	Crissal thrasher	US: None CA: SSC	Found in dense, low scrubby vegetation, such as desert and foothill scrub and riparian brush.	Not Expected: The Project Area is within an urban environment and due to existing human disturbances and poor habitat quality, this species not expected to occur within or adjacent the Project Area.

Scientific Name	Common Name	Listing Status Federal/ State	Habitat	Occurrence Potential
Toxostoma lecontei	Le Conte's thrasher	US: None CA: SSC	Desert resident; primarily of open desert wash, desert scrub, alkali desert scrub, and desert succulent scrub habitats. Commonly nests in a dense, spiny shrub or densely branched cactus in desert wash habitat, usually 2-8 feet above ground.	Not Expected: The Project Area is within an urban environment and due to existing human disturbances and poor habitat quality, this species not expected to occur within or adjacent the Project Area.
Uma inornata	Coachella Valley fringe-toed lizard	US: FT CA: CE	Limited to sandy areas in the Coachella Valley, Riverside County. Requires fine, loose, windblown sand (for burrowing), interspersed with hardpan and widely spaced desert shrubs.	Not Expected: The Project Area is within an urban environment and due to existing human disturbances and poor habitat quality, this species not expected to occur within or adjacent the Project Area.
Vireo bellii pusillus	least Bell's vireo	US: FE CA: CE	Summer resident of Southern California in low riparian in vicinity of water or in dry river bottoms; below 2,000 ft. Nests placed along margins of bushes or on twigs projecting into pathways, usually willow, Baccharis, mesquite.	Not Expected: The Project Area is within an urban environment and due to existing human disturbances and poor habitat quality, this species not expected to occur within or adjacent the Project Area.
Xerospermophilus tereticaudus chlorus	Palm Springs round-tailed ground squirrel	US: None CA: SSC	Restricted to the Coachella Valley. Prefers desert succulent scrub, desert wash, desert scrub, alkali scrub, and levees. Prefers open, flat, grassy areas in fine-textured, sandy soil. Density correlated with winter rainfall.	The Project Area is within an urban environment and due to existing human disturbances and poor habitat quality, this species not expected to occur within or adjacent the Project Area. Occurrence potential is **low**.
Xylorhiza cognata	Mecca-aster	US: None CA: None CNPS: 1B.2	Perennial herb. Occurs in Sonoran desert scrub habitat from 20 to 400 meters (65 to 1,310 feet) above MSL. Blooms January through June.	This species has the potential to occur in the area and favors steep canyon slops and washes. Due to the disturbed site and lack of canyon washes, suitable habitat is not likely to occur in the Project Area. Occurrence potential is **low**.

Coding and Terms

E = Endangered **T = Threatened** **C = Candidate** **FP = Fully Protected** **SSC = Species of Special Concern** **R = Rare** **PT = Proposed Threatened**

State Species of Special Concern: An administrative designation given to vertebrate species that appear to be vulnerable to extinction because of declining populations, limited acreages, and/or continuing threats. Raptor and owls are protected under section 3502.5 of the California Fish and Game code: "It is unlawful to take, possess or destroy any birds in the orders Falconiformes or Strigiformes or to take, possess or destroy the nest or eggs of any such bird."

State Fully Protected: The classification of Fully Protected was the State's initial effort in the 1960's to identify and provide additional protection to those animals that were rare or faced possible extinction. Lists were created for fish, mammals, amphibians and reptiles. Fully Protected species may not be taken or possessed at any time and no licenses or permits may be issued for their take except for collecting these species for necessary scientific research and relocation of the bird species for the protection of livestock.

Global Rankings (Species or Natural Community Level):

G1 = Critically Imperiled – At very high risk of extinction due to extreme rarity (often 5 or fewer populations), very steep declines, or other factors. G2 = Imperiled – At high risk of extinction due to very restricted range, very few populations (often 20 or fewer), steep declines, or other factors.
G3 = Vulnerable – At moderate risk of extinction due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors. G4 = Apparently Secure – Uncommon but not rare; some cause for long-term concern due to declines or other factors.
G5 = Secure – Common; widespread and abundant.

Subspecies Level: Taxa which are subspecies or varieties receive a taxon rank (T-rank**)** attached to their G-rank. Where the G-rank reflects the condition of the entire species, the T-rank reflects the global situation of just the subspecies. For example: the Point Reyes mountain beaver, *Aplodontia rufa* ssp. *phaea* is ranked G5T2. The G-rank refers to the whole species range i.e., *Aplodontia rufa.* The T-rank refers only to the global condition of ssp. *phaea*.

State Ranking:
S1 = Critically Imperiled – Critically imperiled in the State because of extreme rarity (often 5 or fewer populations) or because of factor(s) such as very steep declines making it especially vulnerable to extirpation from the State.
S2 = Imperiled – Imperiled in the State because of rarity due to very restricted range, very few populations (often 20 or fewer), steep declines, or other factors making it very vulnerable to extirpation from the State.
S3 = Vulnerable – Vulnerable in the State due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors making it vulnerable to extirpation from the State.
S4 = Apparently Secure – Uncommon but not rare in the State; some cause for long-term concern due to declines or other factors. S5 = Secure – Common, widespread, and abundant in the State.

California Rare Plant Rankings (CNPS List):
1A = Plants presumed extirpated in California and either rare or extinct elsewhere. 1B = Plants rare, threatened, or endangered in California and elsewhere.
2A = Plants presumed extirpated in California, but common elsewhere.
2B = Plants rare, threatened, or endangered in California, but more common elsewhere. 3 = Plants about which more information is needed; a review list.
4 = Plants of limited distribution; a watch list.

Threat Ranks:
.1 = Seriously threatened in California (over 80% of occurrences threatened / high degree and immediacy of threat)
.2 = Moderately threatened in California (20-80% occurrences threatened / moderate degree and immediacy of threat)
.3 = Not very threatened in California (less than 20% of occurrences threatened / low degree and immediacy of threat or no current threats known)

Appendix B.
Site Photos



Photograph 1. Looking south along the proposed Project alignment from the intersection of Clubhouse Blvd. and Augusta Ave. within Area A.



Photograph 2. Looking southeast along the proposed Project alignment on Desert Air Ct. within Area A.



Photograph 3. Photo looking west along the proposed Project alignment at Arizona crossing on Augusta Ave. Flows from Little Morongo Creek entering Area A.



Photograph 4. Looking east along the proposed Project alignment from the intersection of Oakmount Blvd. and Ray Ct. within Area A.



Photograph 5. Looking northeast along the proposed Project alignment from the intersection of Warwick Drive and Pinehurst Circle within Area A.



Photograph 6. Looking northwest along the proposed Project alignment from the intersection of Warwick Drive and Diegel Ct. within Area A.



Photograph 7. Photo looking east along proposed Project alignment of culvert outlet from nearby road runoff at intersection of Warwick Dr. and Spyglass Ave. within Area A.



Photograph 8. Photo looking west along the proposed Project alignment at Arizona crossing on Mission Lakes Blvd. Flows from Little Morongo Creek exiting Area A.

	
Photograph 9. Looking north along the proposed Project alignment from 19th Avenue within Area I-10.	Photograph 10. Looking southeast along the proposed Project alignment from the intersection of Malone Street and19th within Area I-10.
	
Photograph 11. 20th Avenue looking East	Photograph 12. Photo looking west on Garnet Avenue along the south side of Area I-10.

Appendix C.
Regulatory Framework

Federal Regulations

Clean Water Act

The purpose of the Clean Water Act (CWA) of 1977 is to "restore and maintain the chemical, physical, and biological integrity of the nation's waters." Section 404 of the CWA prohibits the discharge of dredged or fill material into "waters of the United States" (WOTUS) without a permit from the United States Army Corps of Engineers (USACE). The definition of waters of the United States includes rivers, streams, estuaries, territorial seas, ponds, lakes, and wetlands. Wetlands are defined as those areas "that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions" (33 Code of Federal Regulations [CFR] 328.3 7b). The U.S. Environmental Protection Agency (EPA) also has authority over wetlands and may override a USACE permit. Substantial impacts to wetlands may require an individual permit. Projects that only minimally affect wetlands may meet the conditions of one of the existing Nationwide Permits. A Water Quality Certification or waiver pursuant to Section 401 of the CWA is required for Section 404 permit actions; in California this certification or waiver is issued by the Regional Water Quality Control Board (RWQCB).

Waters of the United States Conforming Rule

The USACE has authority to permit the discharge of dredged or fill material in WOTUS under Section 404 of the CWA. According to the EPA and the Department of the Army's Waters of the United States Conforming Rule (effective September 8, 2023) WOTUS are defined generally as territorial seas, interstate waters, tributaries that are relatively permanent, standing or continuously flowing bodies of waters, wetlands adjacent to regulated waters, and intrastate lakes and ponds. The Conforming Rule specifically excludes from the definition of WOTUS:

1) Waste treatment systems, including treatment ponds or lagoons, designed to meet the requirements of the Clean Water Act;
2) Prior converted cropland designated by the Secretary of Agriculture. The exclusion would cease upon a change of use, which means that the area is no longer available for the production of agricultural commodities. Notwithstanding the determination of an area's status as prior converted cropland by any other Federal agency, for the purposes of the Clean Water Act, the final authority regarding Clean Water Act jurisdiction remains with EPA;
3) Ditches (including roadside ditches) excavated wholly in and draining only dry land and that do not carry a relatively permanent flow of water;
4) Artificially irrigated areas that would revert to dry land if the irrigation ceased;
5) Artificial lakes or ponds created by excavating or diking dry land to collect and retain water and which are used exclusively for such purposes as stock watering, irrigation, settling basins, or rice growing;
6) Artificial reflecting or swimming pools or other small ornamental bodies of water created by excavating or diking dry land to retain water for primarily aesthetic reasons;
7) Waterfilled depressions created in dry land incidental to construction activity and pits excavated in dry land for the purpose of obtaining fill, sand, or gravel unless and until the construction or excavation operation is abandoned and the resulting body of water meets the definition of waters of the United States; and
8) Swales and erosional features (*e.g.,* gullies, small washes) characterized by low volume, infrequent, or short duration flow.

Federal Endangered Species Act (ESA)

The federal Endangered Species Act (ESA) of 1973 protects plants and wildlife that are listed by the United States Fish and Wildlife Service (USFWS) and the National Marine Fisheries Service (NMFS) as endangered or threatened. Section 9 of the ESA prohibits the taking of endangered wildlife, where taking is defined as any effort to "harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, collect, or attempt to engage in such conduct" (50 CFR 17.3). However, on April 17, 2025, a final federal regulation was published rescinding the long-standing definition of 'harm' eliminating habitat removal as a cause of harm. Therefore, take no longer includes harm through significant habitat modification or degradation, and instead now requires direct killing or injuring to meet the definition of

take. For plants, this statute governs removing, possessing, maliciously damaging, or destroying any endangered plant on federal land and removing, cutting, digging up, damaging, or destroying any endangered plant on non-federal land in knowing violation of state law (16 United States Code [USC] 1538). Under Section 7 of the ESA, federal agencies are required to consult with the USFWS if their actions, including permit approvals or funding, could adversely affect a listed species (including plants) or its critical habitat. Through consultation and the issuance of a biological opinion, the USFWS may issue an incidental take statement allowing take of the species that is incidental to an otherwise authorized activity, provided the action will not jeopardize the continued existence of the species. The ESA specifies that the USFWS designate habitat for a species at the time of its listing in which are found the physical or biological features "essential to the conservation of the species," or which may require "special Management consideration or protection..." (16 USC § 1533[a][3].2; 16 USC § 1532[a]). This designated Critical Habitat is then afforded the same protection under the ESA as individuals of the species itself, requiring issuance of an Incidental Take Permit (ITP) prior to any activity that results in "the destruction or adverse modification of habitat determined to be critical" (16 USC §1536[a][2]).

Interagency Consultation and Biological Assessments

Section 7 of ESA provides a means for authorizing the "take" of threatened or endangered species by federal agencies, and applies to actions that are conducted, permitted, or funded by a federal agency. The statute requires federal agencies to consult with the USFWS or National Marine Fisheries Service (NMFS), as appropriate, to ensure that actions they authorize, fund, or carry out are not likely to jeopardize the continued existence of threatened or endangered species or result in the destruction or adverse modification of critical habitat for these species. If a proposed project "may affect" a listed species or destroy or modify critical habitat, the lead agency is required to prepare a biological assessment evaluating the nature and severity of the potential effect.

Habitat Conservation Plans

Section 10 of the federal ESA requires the acquisition of an Incidental Take Permit (ITP) from the USFWS by non-federal landowners for activities that might incidentally harm (or "take") endangered or threatened wildlife on their land. To obtain a permit, an applicant must develop a Habitat Conservation Plan that is designed to offset any harmful impacts the proposed activity might have on the species.

Fish and Wildlife Coordination Act

The Fish and Wildlife Coordination Act (16 U.S.C. Sections 661 to 667e et seq.) applies to any federal project where any body of water is impounded, diverted, deepened, or otherwise modified. Project proponents are required to consult with the USFWS and the appropriate state wildlife agency.

Bald and Golden Eagle Protection Act

The Bald and Golden Eagle Protection Act (The Eagle Act) (1940), amended in 1962, was originally implemented for the protection of bald eagles (*Haliaeetus leucocephalus*). In 1962, Congress amended the Eagle Act to cover golden eagles (*Aquila chrysaetos*), a move that was partially an attempt to strengthen protection of bald eagles, since the latter were often killed by people mistaking them for golden eagles. This act makes it illegal to import, export, take (molest or disturb), sell, purchase, or barter any bald eagle or golden eagle or part thereof. Disturb is defined as "to agitate or bother a bald or golden eagle to a degree that causes, or is likely to cause, based on the best scientific information available: (1) injury to an eagle, (2) a decrease in its productivity, by substantially interfering with normal breeding, feeding, or sheltering behavior, or (3) nest abandonment, by substantially interfering with normal breeding, feeding, or sheltering behavior." The golden eagle, however, is accorded somewhat lighter protection under the Eagle Act than that of the bald eagle.

Migratory Bird Treaty Act

The Migratory Bird Treaty Act (MBTA) of 1918 implements international treaties between the United States and other nations created to protect migratory birds, any of their parts, eggs, and nests from activities, such as hunting, pursuing, capturing, killing, selling, and shipping, unless expressly authorized in the regulations or by permit. As authorized by the MBTA, the USFWS issues permits to qualified applicants for the following types of activities: falconry, raptor propagation, scientific collecting, special purposes (rehabilitation, education, migratory game bird propagation, and salvage), take of depredating birds, taxidermy, and waterfowl sale and disposal. The regulations governing migratory bird permits can be found in 50 CFR Part 13 General Permit Procedures and 50 CFR part 21

Migratory Bird Permits. The State of California has incorporated the protection of birds of prey in Sections 3800, 3513, and 3503.5 of the California Fish and Game Code.

Executive Orders (EO)

- *Invasive Species – EO 13112 (1999)*: Issued on February 3, 1999, promotes the prevention and introduction of invasive species and provides for their control and minimizes the economic, ecological, and human health impacts that invasive species cause through the creation of the Invasive Species Council and Invasive Species Management Plan.
- *Migratory Bird – EO 13186 (2001)*: Issued on January 10, 2001, promotes the conservation of migratory birds and their habitats and directs federal agencies to implement the Migratory Bird Treaty Act. Protection and Enhancement of Environmental Quality—EO 11514 (1970a), issued on March 5, 1970, supports the purpose and policies of the National Environmental Policy Act (NEPA) and directs federal agencies to take measures to meet national environmental goals.

Migratory Bird Treaty Reform Act

The Migratory Bird Treaty Reform Act (Division E, Title I, Section 143 of the Consolidated Appropriations Act, 2005, PL 108–447) amends the Migratory Bird Treaty Act (16 U.S.C. Sections 703 to 712) such that nonnative birds or birds that have been introduced by humans to the United States or its territories are excluded from protection under the Act. It defines a native migratory bird as a species present in the United States and its territories as a result of natural biological or ecological processes. This list excluded two additional species commonly observed in the United States, the rock pigeon (*Columba livia*) and domestic goose (*Anser domesticus*).

Birds of Conservation Concern

Birds of Conservation Concern (BCC) is a USFWS list of bird species identified to have the highest conservation priority, and with the potential for becoming candidates for listing as federally threatened or endangered. The chief legal authority for BCC is the Fish and Wildlife Conservation Act of 1980 (FWCA). Other authorities include the FESA, the Fish and Wildlife Act of 1956, and the Department of the Interior U.S Code (16 U.S.C. § 701). The 1988 amendment to the FWCA (Public Law 100-653, Title VIII) requires the Secretary of the Interior, through the USFWS, to "identify species, subspecies, and populations of all migratory nongame birds that, without additional conservation actions, are likely to become candidates for listing under the Endangered Species Act of 1973" (USFWS, 2008a).

State Regulations

California Fish and Game Code Sections 1600 through 1606

This section requires that a Streambed Alteration Application be submitted to the CDFW for "any activity that may substantially divert or obstruct the natural flow or substantially change the bed, channel, or bank of any river, stream, or lake." The CDFW reviews the proposed actions and, if necessary, submits to the applicant a proposal for measures to protect affected fish and wildlife resources. The final proposal that is mutually agreed upon by the Department and the applicant is the Streambed Alteration Agreement. Often, Projects that require a Streambed Alteration Agreement also require a permit from the USACE under Section 404 of the CWA. In these instances, the conditions of the Section 404 permit and the Streambed Alteration Agreement may overlap.

California Endangered Species Act

The California Endangered Species Act (CESA) (Sections 2050 to 2085) establishes the policy of the state to conserve, protect, restore, and enhance threatened or endangered species and their habitats by protecting "all native species of fishes, amphibians, reptiles, birds, mammals, invertebrates, and plants, and their habitats, threatened with extinction and those experiencing a significant decline which, if not halted, would lead to a threatened or endangered designation." Animal species are listed by the CDFW as threatened or endangered, and plants are listed as rare, threatened, or endangered. However, only those plant species listed as threatened or endangered receive protection under the California ESA.

CESA mandates that state agencies do not approve a Project that would jeopardize the continued existence of these species if reasonable and prudent alternatives are available that would avoid a jeopardy finding. There are no state agency consultation procedures under the California ESA. For Projects that would affect a species that is

federally and State listed, compliance with ESA satisfies the California ESA if the California Department of Fish and Wildlife (CDFW) determines that the federal incidental take authorization is consistent with the California ESA under Section 2080.1. For Projects that would result in take of a species that is state listed only, the Project sponsor must apply for a take permit, in accordance with Section 2081(b).

Fully Protected Species

Four sections of the California Fish and Game Code list 37 fully protected species (CFGC Sections 3511, 4700, 5050, and 5515). These sections prohibit take or possession "at any time" of the species listed, with few exceptions, and state that "no provision of this code or any other law will be construed to authorize the issuance of permits or licenses to 'take' the species," and that no previously issued permits or licenses for take of the species "shall have any force or effect" for authorizing take or possession.

Bird Nesting Protections

Bird nesting protections (Sections 3503, 3503.5, 3511, 3513 and 3800) in the California Fish and Game Code include the following:

- Section 3503 prohibits the take, possession, or needless destruction of the nest or eggs of any bird.
- Section 3503.5 prohibits the take, possession, or needless destruction of any nests, eggs, or birds in the orders Falconiformes (new world vultures, hawks, eagles, ospreys, and falcons, among others), and Strigiformes (owls).
- Section 3511 prohibits the take or possession of Fully protected birds.
- Section 3513 prohibits the take or possession of any migratory nongame bird or part thereof, as designated in the MBTA. To avoid violation of the take provisions, it is generally required that Project-related disturbance at active nesting territories be reduced or eliminated during the nesting cycle.

Section 3800 prohibits the take of any non-game bird (i.e., bird that is naturally occurring in California that is not a gamebird, migratory game bird, or fully protected bird).

California Native Plant Protection Act

The California Native Plant Protection Act was enacted in 1977 to preserve, protect and enhance rare and endangered plants in California. It gave the California Fish and Game Commission ('Commission') the authority to designate native plants as endangered or rare and authorized the Commission to require permits for collecting, transporting, or selling such plants. Through these permits, CDFW is authorized to prohibit the unauthorized take of CESA-listed plants from the wild and allows CDFW to salvage any rare plants that would otherwise be destroyed (California Fish and Game Code section 1900 et seq).

APPENDIX 3

IDENTIFICATION AND EVALUATION OF HISTORIC PROPERTIES

GROUNDWATER QUALITY PROTECTION PROGRAM SEPTIC-TO-SEWER UPDATE PROJECT

In and near the City of Desert Hot Springs
Riverside County, California

CRM TECH
1016 East Cooley Drive, Suite A/B
Colton, CA 92324

November 1, 2025
Updated December 22, 2025

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1.0 Executive Summary

Between May and October 2025, at the request of Tom Dodson and Associates, CRM TECH performed a cultural resources assessment on the Area of Potential Effects (APE) for the proposed Mission Springs Water District (MSWD) Septic to Sewer Update Project in and near the City of Desert Hot Springs, Riverside County, California. This study is a part of the environmental review process for the project, as required by the lead public agency, namely the MSWD, pursuant to the California Environmental Quality Act (CEQA). The project may involve federal funding administered by the U.S. Army Corps of Engineers (USACE) and thereby qualify as a federal "undertaking," which would mandate compliance with Section 106 of the National Historic Preservation Act (NHPA) as well.

Description of the Undertaking: As a part of the MSWD Groundwater Quality Protection Program, the undertaking proposes the installation of approximately 142,000 linear feet (26.9 miles) of 8-inch sewer main pipelines and an estimated total of 2,500 4- to 6-inch service laterals along the routes, as well as the abatement of more than 2,000 on-site septic tanks. The primary objective of the undertaking is to switch approximately 2,600 parcels in the MSWD service area from private septic works to the district's sewer system.

Area of Potential Effects (APE): The APE is delineated to encompass the maximum extent of ground disturbance required for the implementation of the undertaking. The horizontal extent of the APE includes the proposed 26.9 linear miles of sewer main pipeline alignments within roadways and existing rights-of-way as well as the sites of the 2,500 service laterals and the septic tanks. In general, the portion of the APE for future laterals and septic tank abatement coincides with the portions of the individual parcels lying immediately adjacent to the sewer main pipeline alignments, between the public rights-of-way and the buildings.

The vertical extent of the APE, representing the maximum depth of excavation required for pipeline installation, is estimated to range from seven to ten feet below surface for the sewer mains and from four to six feet for the service laterals but may reach up to 15 feet in some areas due to the natural terrain or to cross under existing drainage channels. The APE is located in Section 23 of T2S R4E, Sections 30, 32, and 33 of T2S R5E, and Sections 14, 15, 22, and 23 of T3S R4E, San Bernardino Baseline and Meridian, as depicted in the United States Geological Survey Desert Hot Springs and Seven Palms Valley, California, 7.5' quadrangles.

Steps Taken to Identify Historic Properties: CRM TECH conducted a cultural resources records search, historical and geoarchaeological background research, Native American outreach, and a systematic field survey of the APE. The results of these research procedures indicate that four cultural resources of historical origin were previously recorded within, partially within, or in very close proximity to the APE, all of them in the vicinity of I-10 Corridor. Among these, Site 33-028591, Isolate 33-028593, and Site 33-028595 consisted of refuse items from the 1930s-1970s era, while Site 33-008410 represented the former alignment of the main construction access road for the 1930s Colorado River Aqueduct project, which coincided partially with the segments of Indian Canyon Drive in the APE.

All four of these known cultural resources were previously determined not to be eligible for the National Register of Historic Places or the California Register of Historical Resources. Furthermore, Site 33-028591, Isolate 33-028593, and Site 33-028595 could not be located during the field survey and were deemed to be no longer extant. The segments of Indian Canyon Drive in the APE are essentially modern in appearance today due to upgrading and maintenance during recent decades and retain little historic integrity to relate to the road's period of origin. Therefore, the present study concurs with the previous evaluation of Site 33-008410 and concludes that it does not meet the definition of a "historic property" under Section 106 or a "historical resource" under CEQA.

Most of the existing roadways in the APE are now more than 50 years of age. However, as with Indian Canyon Drive, the current characteristics of these roadways are a direct result of upgrading and maintenance during the modern era. As working components of the modern transportation infrastructure, they are not considered potential "historic properties" or "historical resources." Adjacent to the APE, numerous buildings along the project alinements also date to the historic period. Since the installation of underground pipelines and associated laterals and the abatement of existing septic tanks have little potential to compromise their historic integrity in terms of location, design, setting, materials, workmanship, feeling, and association, the buildings adjacent to the project alignments were not included in the APE and do not require any further consideration.

In conclusion, the proposed undertaking would not cause an "adverse effect" or a "substantial adverse change" to any known "historic properties" or "historical resources." While most of the APE appears relatively low in sensitivity for subsurface archaeological deposits, two areas of moderate to high sensitivity were identified from the sources consulted. The results of past studies nearby indicate that the eastern extent of a prehistoric Native American village site around the Two Bunch Palms oasis, designated Site 33-001246, lies relatively close to the southwestern portion of Area H, namely along the southernmost segment of Miracle Hill Road and the westernmost segments of Loma Vista Road and Monterey Road. The southern portions of Areas H and I, around the intersection of Hidalgo Street/Yerxa Road and Loma Vista Road, are known to be the general location of well-known early settler Cabot Yerxa's homestead. Consequently, these portions of the APE are considered to be higher in potential for encountering buried archaeological deposits of prehistoric or early historic origin during construction activities.

Since the APE lies predominantly within the paved roadbeds of existing public roads or on adjacent private properties, standard subsurface exploration procedures known as Extended Phase I do not appear to be a feasible approach to determine the presence or absence of subsurface cultural remains in the vertical APE. In order to identify such remains in a timely manner and, if necessary, protect them from project impact, CRM TECH recommends that excavations and other ground-disturbing operations that will reach beyond the roadbed fill (generally speaking the uppermost five to six feet of surface and near-surface soils) in the archaeologically sensitive areas be conducted under the direction and close observation of a qualified archaeologist. If any potentially significant cultural remains are encountered, the mechanical excavations should be halted or diverted while an archaeological team recovers the materials through procedures consistent to a Phase II archaeological testing program.

Under this condition, the proposed undertaking may be cleared to proceed in compliance with Section 106 and CEQA provisions on cultural resources. No further cultural resources investigation is recommended for the rest of the APE unless project plans undergo such changes as to include areas not covered by this study. However, if buried cultural materials are encountered during earth-moving operations anywhere within the APE, all work in the immediate vicinity of the discovery should be halted or diverted until a qualified archaeologist can evaluate the nature and significance of the finds.

2.0 Introduction

Between May and October 2025, at the request of Tom Dodson and Associates, CRM TECH performed a cultural resources assessment on the Area of Potential Effects (APE) for the proposed Mission Springs Water District (MSWD) Septic to Sewer Update Project in and near the City of Desert Hot Springs, Riverside County, California (Figs. 1-9). This study is a part of the environmental review process for the project, as required by the lead public agency, namely the MSWD, pursuant to the California Environmental Quality Act (CEQA). The project may involve federal funding administered by the U.S. Army Corps of Engineers (USACE) and thereby qualify as a federal "undertaking," which would mandate compliance with Section 106 of the National Historic Preservation Act (NHPA) as well.

As parts of the study, CRM TECH conducted a cultural resources records search, historical and geoarchaeological background research, Native American outreach, and a systematic field survey of the APE. The following report is a complete account of the methods and results of the various avenues of research and the final conclusion of the study. Personnel who participated in the study are named in the appropriate sections below, and their qualifications are provided in Appendix A.

2.1 Project Location

The APE for this undertaking lies along the northern, eastern, and southern edge of the City of Desert Hot Springs, both inside and outside the city limits. It comprises eight

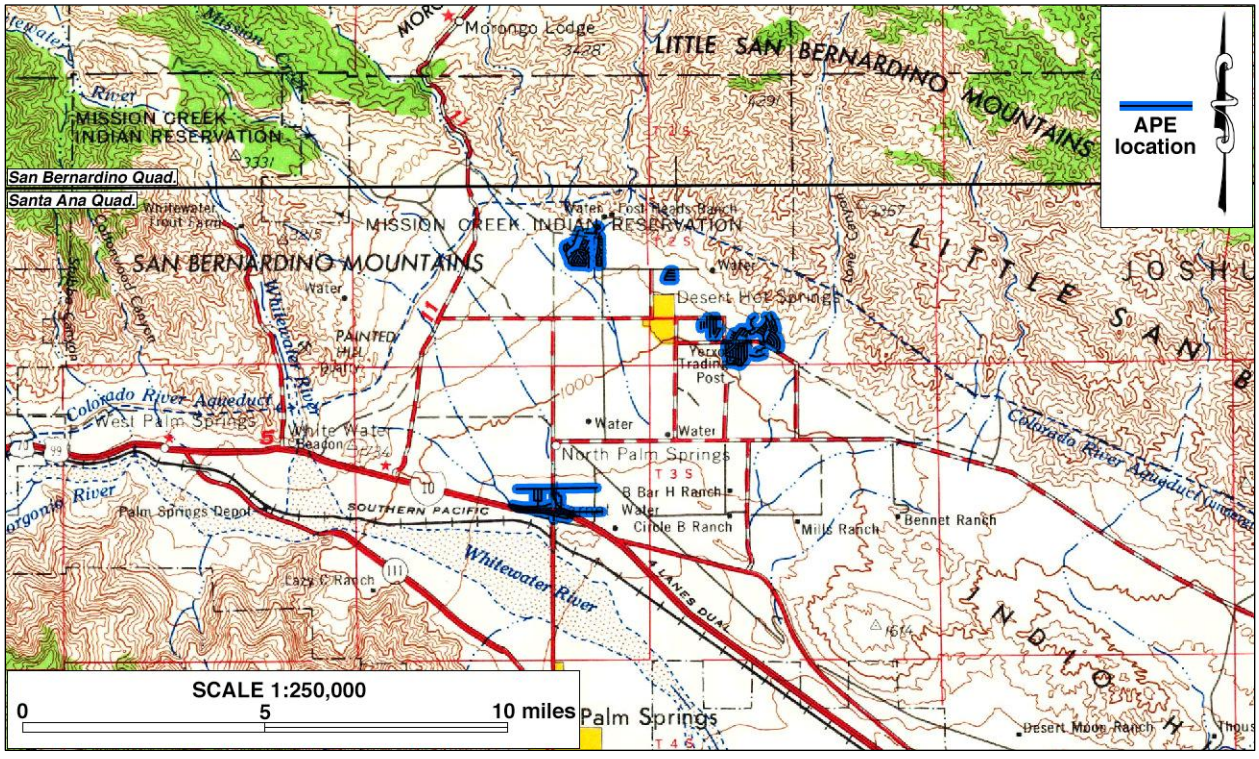

Figure 1. Project vicinity. Based on USGS San Bernardino and Santa Ana, Calif., 120'x60' quadrangles (USGS 1969; 1979).

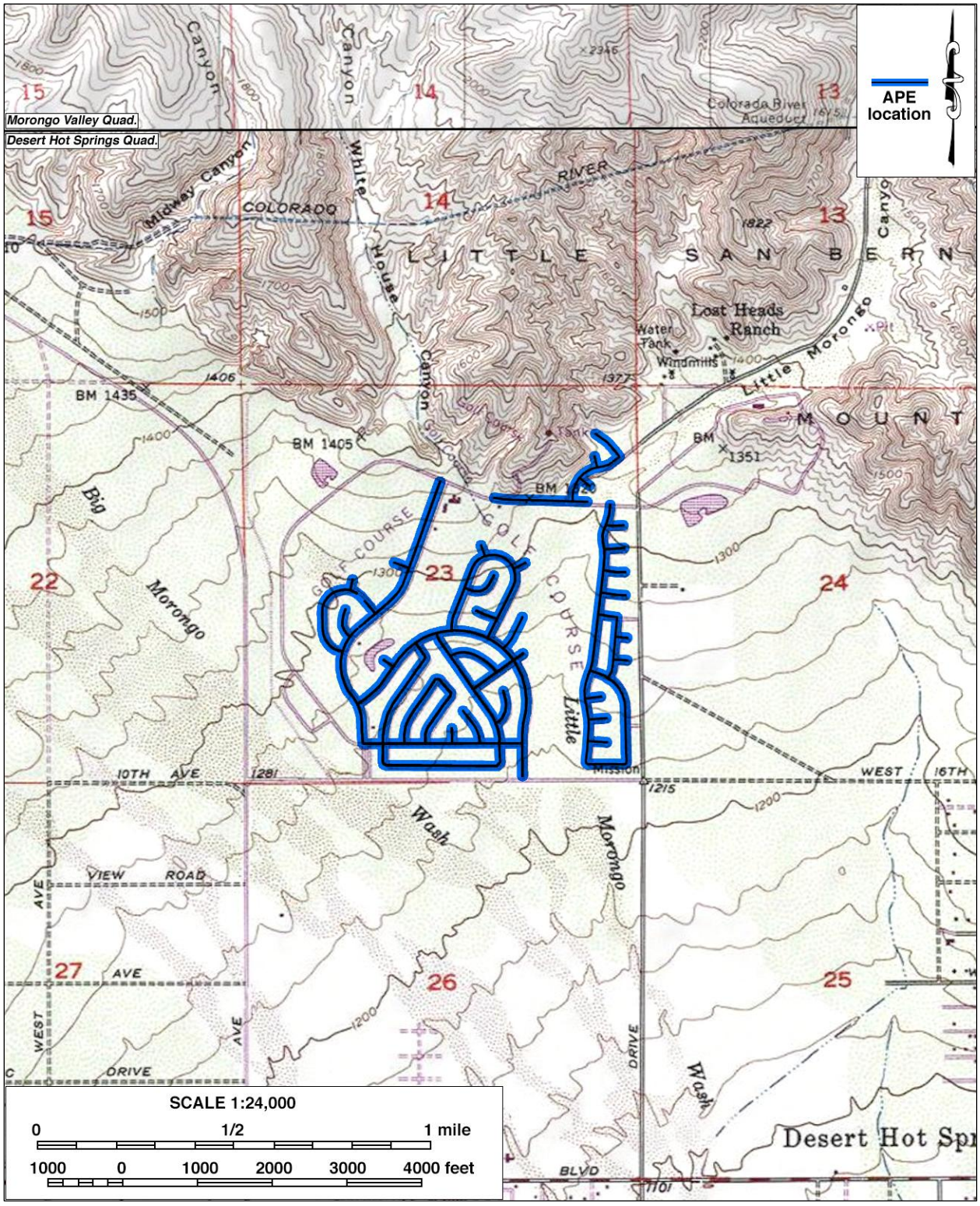

Figure 2. Location and configuration of the APE (Area A). Based on USGS Desert Hot Springs and Morongo Valley, Calif., 7.5' quadrangles (USGS 1978a; 1994).

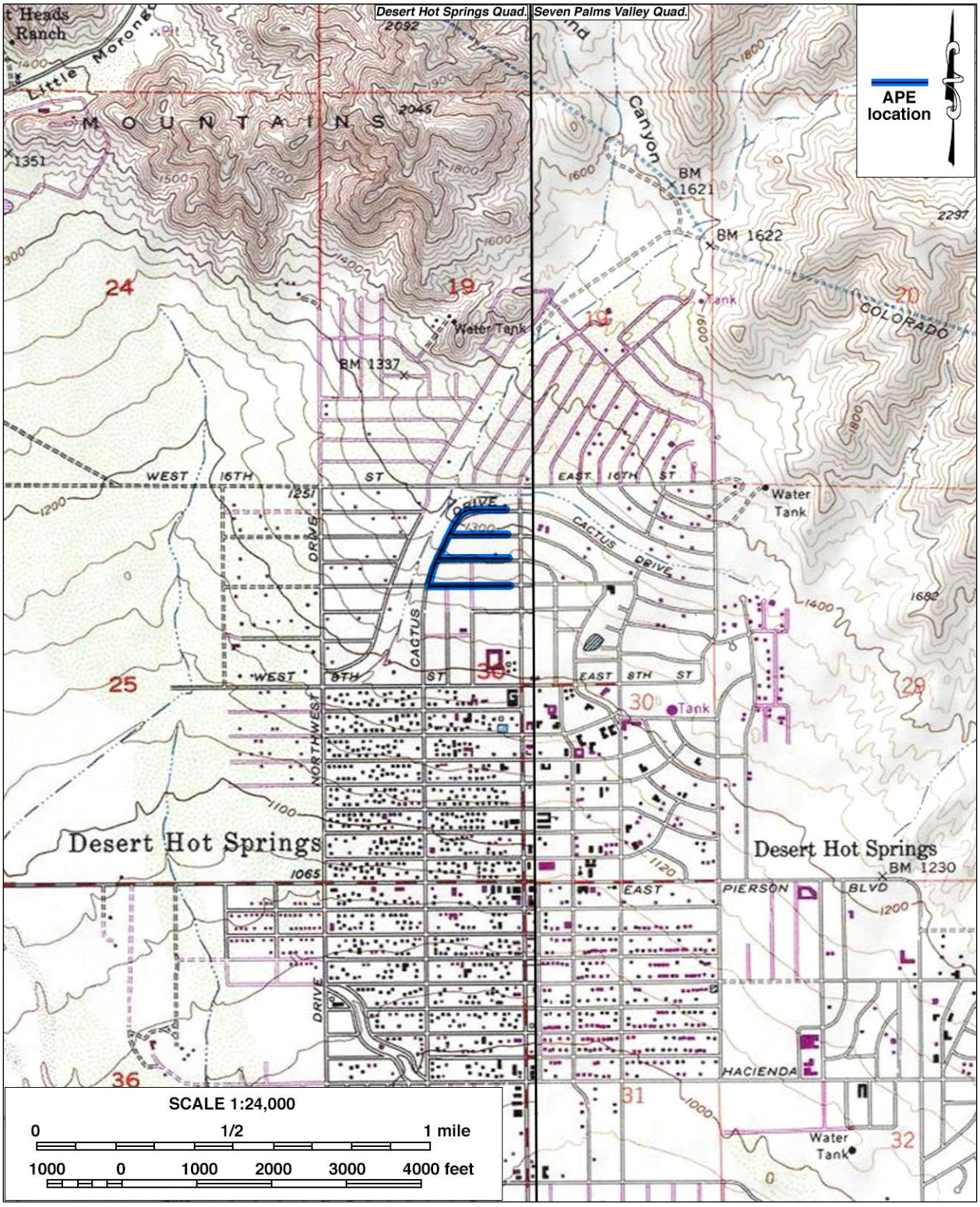

Figure 3. Location and configuration of the APE (Area D-3). Based on USGS Desert Hot Springs and Seven Palms Valley, Calif., 7.5' quadrangles (USGS 1978a; 1978b).

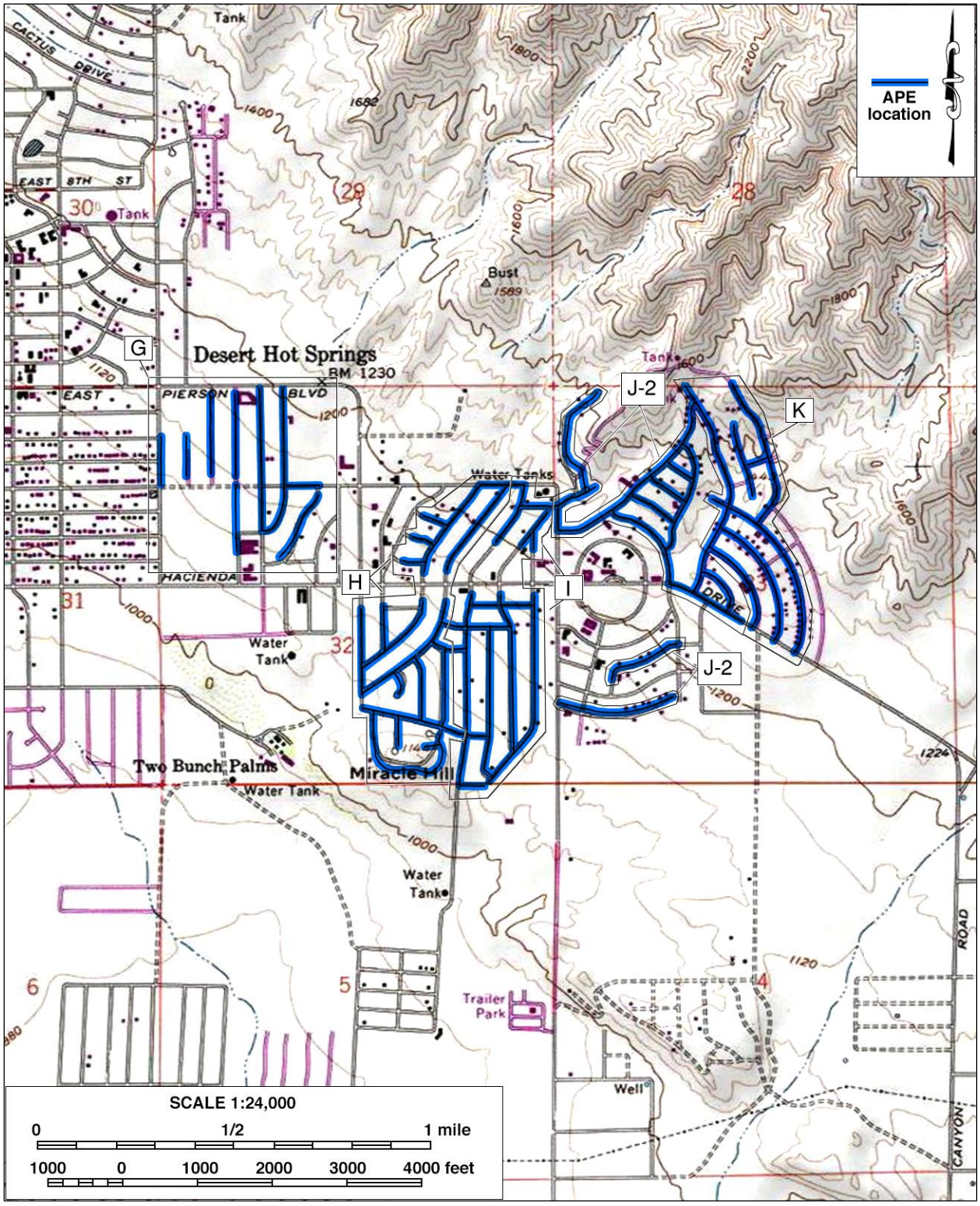

Figure 4. Location and configuration of the APE (Areas G, H, I, J-2 and K). Based on USGS Seven Palms Valley, Calif., 7.5' quadrangle (USGS 1978b).

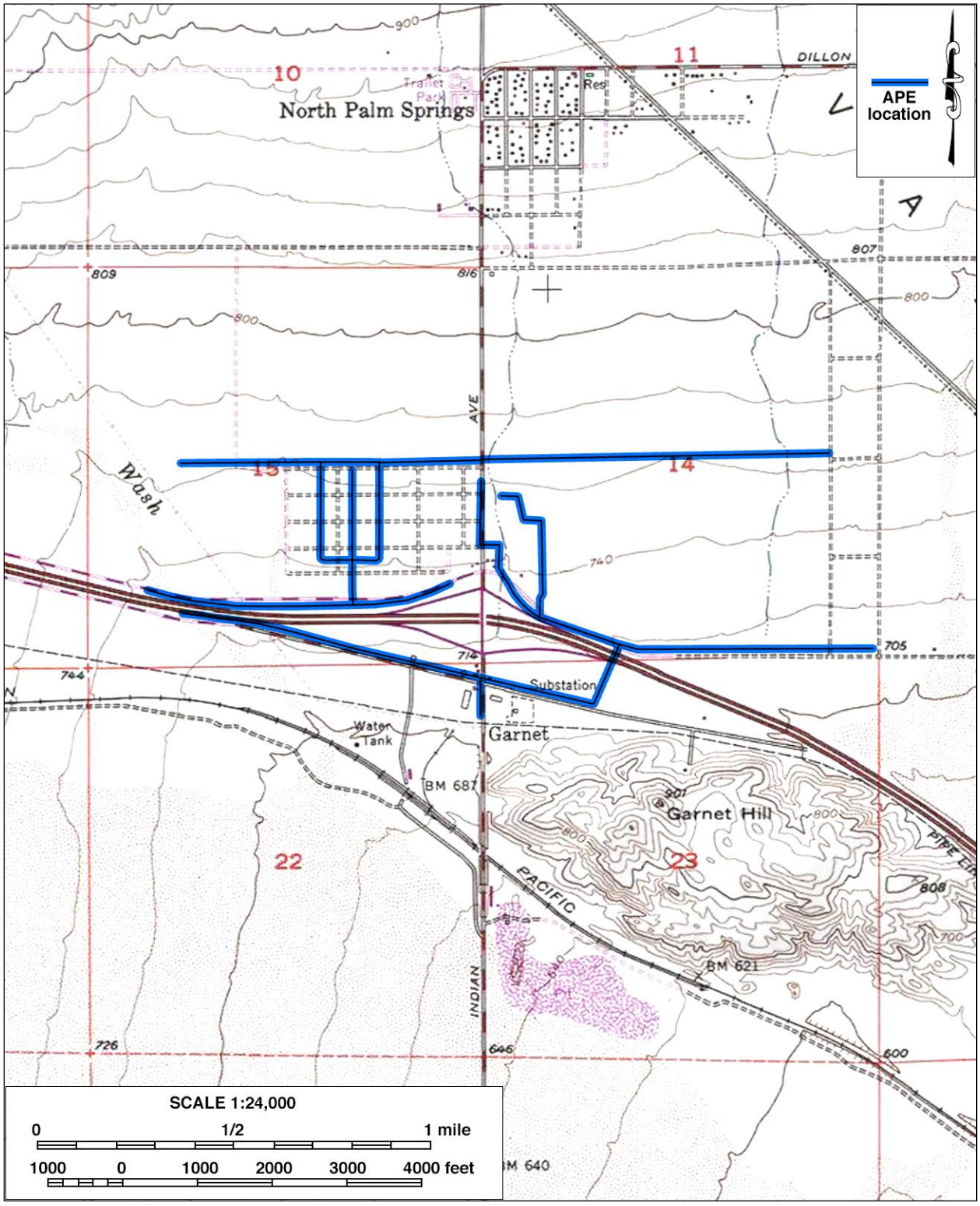

Figure 5. Location and configuration of the APE (I-10 Corridor). Based on USGS Desert Hot Springs, Calif., 7.5' quadrangle (USGS 1978a).



Figure 6. Satellite image of the APE (Area A).



Figure 7. Satellite image of the APE (Area D-3).

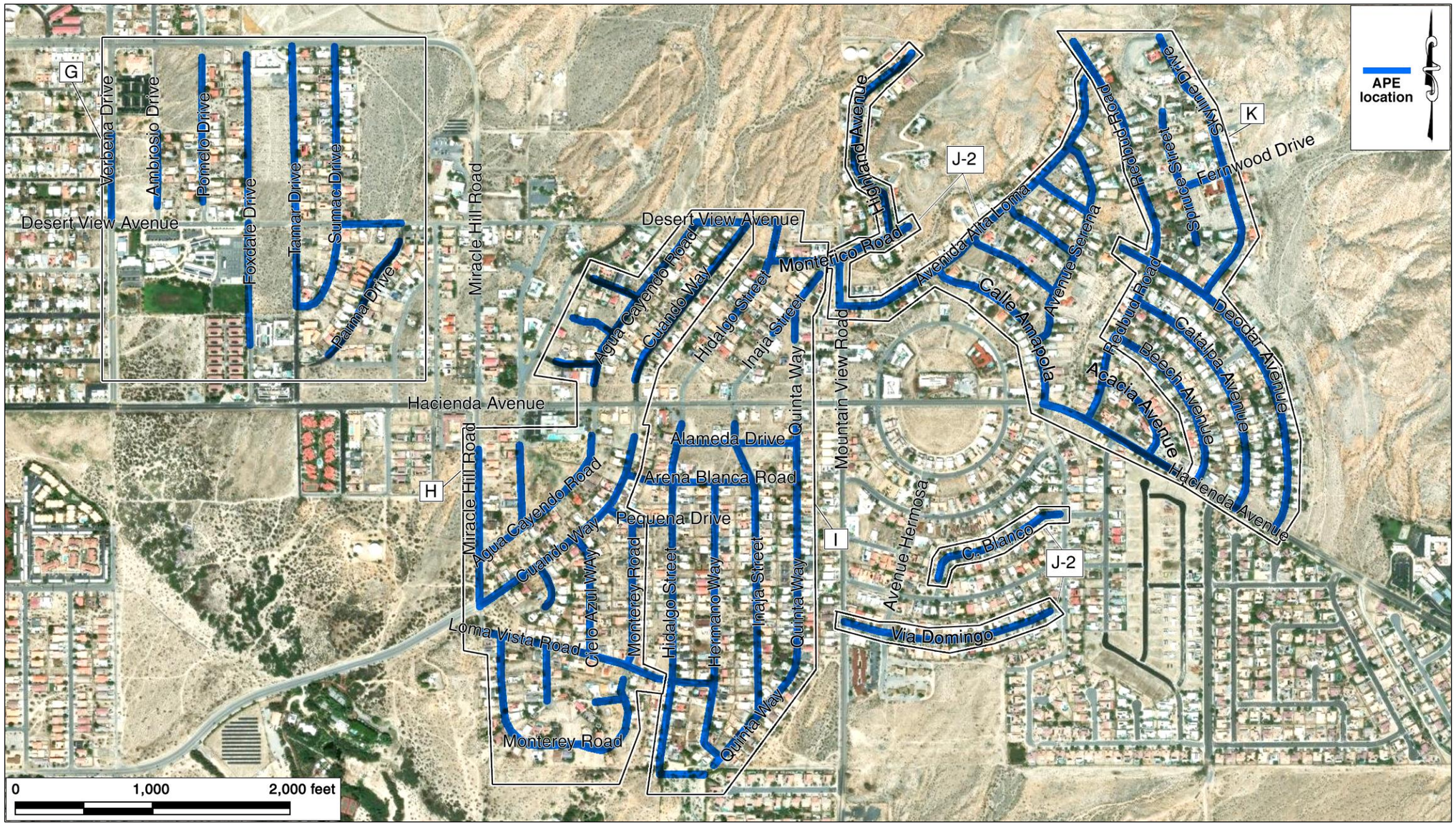

Figure 8. Satellite image of the APE (Areas G, H, I, J-2 and K).

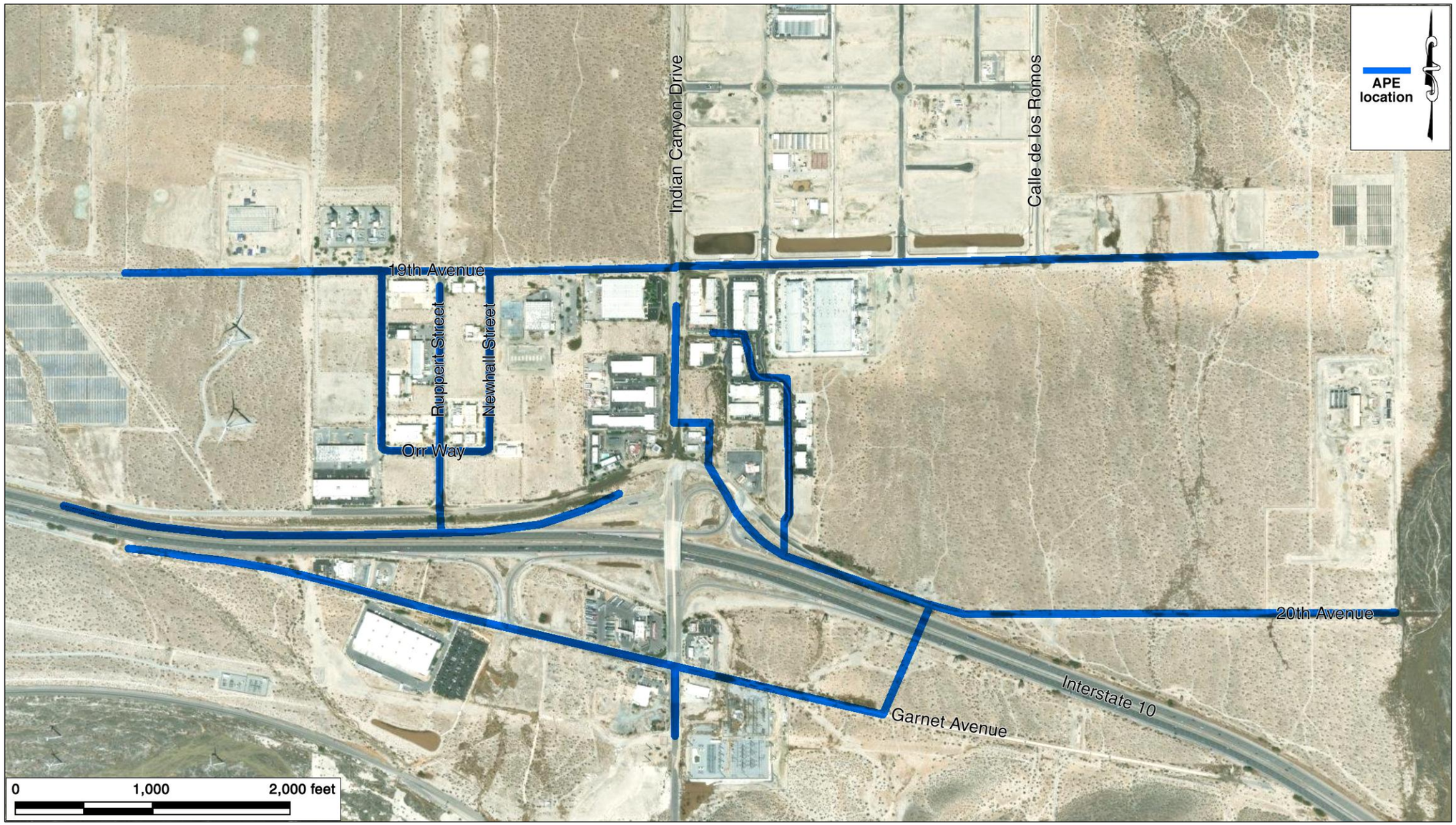

Figure 9. Satellite image of the APE (I-10 Corridor).

designated areas at four separate locations. Area A is located in the residential neighborhood around the golf courses of the Mission Lakes Country Club, just outside the northern boundary of the city (Figs. 2, 6). Areas D-3 is located in a residential neighborhood to the south of Mission Lakes Boulevard between Palm Drive and Santa Cruze Road, in the northeastern portion of the city (Figs. 3, 7). Areas G, H, I, J-2, and K are clustered in a residential neighborhood on both sides of Hacienda Avenue and between Verbena Drive and Deodar Avenue, in the easternmost portion of the city (Figs. 4, 8). The final area, known as I-10 Corridor, lies across the southwestern boundary of the city and on both sides of Indian Canyon Drive between 19th Avenue and the Union Pacific Railroad (Figs. 5, 9). The various components of the APE are scattered among Section 23 of T2S R4E, Sections 30, 32, and 33 of T2S R5E, and Sections 14, 15, 22, and 23 of T3S R4E, San Bernardino Baseline and Meridian, as depicted in the United States Geological Survey (USGS) Desert Hot Springs and Seven Palms Valley, California, 7.5' quadrangles (Figs. 2-5).

2.2 Project Description

As a part of the MSWD Groundwater Quality Protection Program, the undertaking proposes the installation of approximately 142,000 linear feet (26.9 miles) of 8-inch sewer main pipelines and an estimated total of 2,500 4- to 6-inch service laterals along the routes, as well as the abatement of more than 2,000 on-site septic tanks. The primary objective of the undertaking is to switch approximately 2,600 parcels in the MSWD service area from private septic works to the district's sewer system. The ultimate goal of the undertaking is to eliminate contamination risk posed by the septic tanks to potable groundwater supplies and the underground hot mineral water, which is the economic basis of the community's spa industry.

In February 1999, MSWD launched a sewer improvement project to convert approximately 5,000 septic disposal treatment systems to a sewer conveyance and treatment system by installing 62.8 miles of sewer pipelines and expanding the capacity of the district's Horton Wastewater Treatment Plant. In March 2011, MSWD adopted an addendum to the project to install 57 miles of sewer pipelines. The current undertaking is an extension of the original project from 1999. Because more than 25 years have passed since the original project was approved and some of the sewer improvement has been completed, this study is prepared to address specifically the project components identified above.

Construction work for this undertaking is anticipated to occur over a period of approximately 20 years, with one of the eight areas to be completed roughly every 30 months. The undertaking will utilize open cut trenching for the vast majority of the sewer reaches and septic abatement areas, with jack and bore techniques for certain small areas, such as across the I-10 freeway and existing drainage channels. The depth to the invert of the pipe will be approximately 8 feet deep in the open cut trench areas and approximately 12-15 feet deep under the drainage channel between Hidalgo Street and Quinta Way.

3.0 Area of Potential Effects (APE)

According to Section 106 of the NHPA, the APE is: *the geographic area or areas within which an undertaking may directly or indirectly cause alterations in the character or use of historic properties, if anysuch properties exist. The APE is influenced by the scale and nature of an*

undertaking and may be different for different kinds of effects caused by the undertaking (36 Code of Federal Regulations [CFR] 800.16[d]).

For this undertaking, the APE was delineated to encompass the maximum extent of ground disturbance required for the construction work. The horizontal extent of the APE includes the proposed 26.9 linear miles of sewer main pipeline alignments within roadways and existing rights-of-way as well as the sites of the 2,500 service laterals and the septic tanks, as depicted in Figs. 2-9. In general, the portion of the APE for future laterals and septic tank abatement coincides with the portions of the individual parcels lying immediately adjacent to the sewer main pipeline alignments, between the public rights-of-way and the buildings. The vertical extent of the APE, representing the maximum depth of excavation required for pipeline installation, is estimated to range from seven to ten feet below surface for the sewer mains and from four to six feet for the service laterals but may reach up to 15 feet in some areas due to the natural terrain or to cross under existing drainage channels, as discussed above.

4.0 Environmental Setting and Background

4.1 Natural Setting

The APE is situated in and near the City of Desert Hot Springs, which is located near the northwestern end of the Coachella Valley, a northwest-southeast trending desert valley that constitutes the western end of the Colorado Desert (Fig. 1). Dictated by this geographic setting, the climate and environment of the region are typical of southern California's desert country, marked by extremes in temperature and aridity. Temperatures in the region reach over 120 degrees in summer, and dip to freezing in winter. Average annual precipitation is less than five inches, and the average annual evaporation rate exceeds three feet.

The APE alignments are confined primarily within and immediately adjacent to the existing rights-of-way of paved public roadways, mostly two-lane residential streets with some local thoroughfare and freeway on/off-ramps in the I-10 Corridor area (Figs. 6-17). As such, most



Figure 10. Area A at the intersection of Leith Avenue and Inglewood Avenue, view to the east. Photograph taken on June 18, 2025.



Figure 11. Area D-3 at the intersection of San Juan Road and Cactus Drive, view to the east. Photograph taken on July 7, 2025.



Figure 12. Area G at the intersection of Pierson Boulevard and Tamar Drive, view to the south. Photograph taken on June 18, 2025.



Figure 13. Area H at the intersection of Loma Vista Road and Monterey Road, view to the east. Photograph taken on June 18, 2025.



Figure 14. Area I at the intersection of Quinta Way and Inaja Street, view to the northeast. Photograph taken on June 18, 2025.



Figure 15. Area J-2 at the intersection of Avenida Alta Loma and Calle Descanso, view to the southeast. Photograph taken on July 7, 2025.



Figure 16. Area K at the intersection of Skyline Drive and Deodar Avenue, view to the northeast. Photograph taken on June 18, 2025.



Figure 17. I-10 Corridor at the intersection of 19th Street and Indian Canyon Drive, view to the west. Photograph taken on June 18, 2025.

of the APE has been extensively disturbed in the past by road construction and underground utility work. The surrounding land in Areas A, D-3, G, H, I, J-2, and K is occupied predominantly by single-family residences with some vacant land also present, especially towards the base of the Little San Bernardino Mountains to the north (Figs. 6-8). Around I-10 Corridor, the prevailing land use is commercial, but much of the land along the project alignments remains undeveloped (Fig. 9).

The vast majority of the APE lies across the gentle slope of an alluvial fan extending from the southern base of the Little San Bernardino Mountains, at elevations ranging approximately from 700 feet to 1,300 feet above mean sea level. On the northern edge, small portions of the APE reach into the foothills of the mountain range and rise in elevation to nearly 1,500 feet above mean sea level. In its natural state, the project location is a part of the Creosote Bush Scrub Plant Community. Native plant species common to this community include creosote bush, prickly pear cactus, cholla, brittlebush, and globemallow. However, very little of the APE is in the natural state today, with most of the ground surface paved or landscaped. The existing vegetation in and around the APE features mainly introduced landscaping plants, including a wide variety of trees, bushes, flowers, and grass (Figs. 10-17).

4.2 Prehistoric Setting

The study of pre-European culture in southern California's desert region has drawn the interest of academics for more than a century, and a considerable amount of archaeological research in the last 50 years is credited to practitioners of cultural resource management. Archaeological frameworks of analysis were built upon the foundational academic work of Elizabeth W.C. Campbell (1931; see also Campbell and Campbell 1935 and Campbell et al. 1937) and Malcolm J. Rogers (1929; 1939), later supplemented by compliance-based research (e.g., Weide 1973; Wilke and Weide 1976; Stickel and Weinman-Roerts 1980) and synthesized by Warren (1984) into a macroregional archaeological framework for inland southern California. In the last four decades, archaeologists' interest in cultural variability prompted the desert region to be separated into subregions that include the Mojave Desert (e.g., Sutton 1996; Sutton et al. 2007), Colorado Desert (e.g., Love and Dahdul 2002; Schafer

1994; Schaefer and Laylander 2007; Wilke 1978), and inland valleys (e.g., Goldberg 2001; Grenda 1997; O'Connell et al. 1974).

The prehistory of the Colorado Desert may be divided into several chronological periods: Paleoarchiac, Early Archaic, Late Archaic, and Late Prehistoric. This differs from the archaeological framework for the neighboring Mojave Desert, which is divided into archaeological complexes representing distinct sets of material traits, settlement patterns, and subsistence strategies that are independent of chronological periods. This distinction is significant for several reasons: 1) few sites in the Colorado Desert date older than 2,000 years (cf. Indian Hill Rock Shelter [McDonald 1992; Wilke and McDonald 1989; Wilke et al. 1986], northern Coachella Valley [Love and Dahdul 2002], and northwestern shoreline of Lake Cahuilla [*ibid.*]); 2) the majority of sites in the Colorado Desert are associated with Late Prehistoric cultures as most notably defined by the presence of ceramics and desert series projectile points (i.e., Cottonwood triangular and Desert side-notched); and 3) while the published work on the Colorado Desert is commendable (e.g., Schaefer 1994; Love and Dahdul 2002; Schaefer and Laylander 2007), there has been a greater effort to synthesize research and publish on the archaeology of the Mojave Desert, likely due in part to its geographic proximity to, and association with, the Great Basin.

The earliest period identified is the Paleoarchic (ca. 8,000 to 10,000-12,000 years ago), when "small, mobile bands" of hunters and gatherers, who relied on a variety of small and large game animals as well as wild plants for subsistence, roamed the region (Schaefer 1994:63). These small groups settled "on mesas and terraces overlooking larger washes" (*ibid*.:64). Typical artifacts and features from that period include very simple stone tools, "cleared circles, rock rings, [and] some geoglyph types" (*ibid*.). The Early Archaic Period follows and dates to ca. 8,000 to 4,000 years ago. It appears that a decrease in population density occurred at this time and that the indigenous groups of the area relied more on foraging than hunting. Very few archaeological sites have been identified to this period.

The ensuing Late Archaic Period (ca. 4,000 to 1,500 years ago) is characterized by continued low population densities and groups of "flexible" sizes that settled near available seasonal food resources and relied on "opportunistic" hunting of game animals. Groundstone artifacts for food processing were prominent during this period. The most recent period in Schaefer's scheme, the Late Prehistoric, dates from ca. 1,500 years ago to the time of the Spanish missions and saw the continuation of the seasonal settlement pattern. Peoples of the Late Prehistoric Period were associated with the Patayan cultural pattern and relied more heavily on the availability of seasonal "wild plants and animal resources" (Schaefer 1994:66). It was during this period that brown and buff ware ceramics were introduced into the region.

The shores of Holocene Lake Cahuilla, during times of its presence, attracted much settlement and resource procurement. After the last desiccation of the lake around the 1730s A.D. (Rockwell et al. 2022), the Native people moved away from its receding shores towards rivers, streams, and mountains. Numerous archaeological sites dating to this period have been identified along the former shoreline of Holocene Lake Cahuilla in the Coachella Valley. Testing and mitigative excavations at these sites have recovered brown and buff ware ceramics, a variety of groundstone and projectile point types, ornaments, and cremation remains.

4.3 Ethnographic Setting

The Coachella Valley is a historical center of Native American settlement, where U.S. surveyors noted large numbers of Indian villages and *rancherías*, occupied by the Cahuilla people, in the mid-19th century. The Takic-speaking Cahuilla are generally divided by anthropologists into three groups, according to their geographic setting: Pass Cahuilla of the San Gorgonio Pass-Palm Springs area, Mountain Cahuilla of the San Jacinto and Santa Rosa Mountains and the Cahuilla Valley, and Desert Cahuilla of the eastern Coachella Valley. The basic written sources on Cahuilla culture and history include Kroeber (1925), Strong (1929), and Bean (1978). The following ethnohistoric discussion is based primarily on these sources.

The Cahuilla did not have a single name that referred to an all-inclusive tribal affiliation. Instead, membership was in terms of lineages or clans. Each lineage or clan belonged to one of two main divisions of the people, known as moieties. Members of clans in one moiety had to marry into clans from the other moiety. Individual clans had villages, or central places, and territories they called their own, for purposes of hunting game, gathering food, or utilizing other necessary resources. They interacted with other clans through trade, intermarriage, and ceremonies.

The Cahuilla exploited nearly all of the resources available in a highly developed seasonal mobility system. They were adapted to the arid conditions of the desert floor, the lacustral cycles of Holocene Lake Cahuilla, and the environments of the nearby mountains. When the lake was full, or nearly full, the Cahuilla would take advantage of the resources presented by the body of fresh water. Once the lake had desiccated, they utilized the available terrestrial resources. They also migrated to the higher elevations of the nearby mountains to take advantage of the resources and cooler temperatures available in that environment.

The Cahuilla cultivated and collected seeds, roots, wild fruits and berries, acorns, wild onions, piñon nuts, and mesquite and screw beans. Common game animals included deer, antelope, big horn sheep, rabbits, wood rats and, when Holocene Lake Cahuilla was present, fish and waterfowls. The Cahuilla hunted with throwing sticks, clubs, nets, traps, snares, as well as bows and arrow (Bean 1978; CSRI 2002). Common tools and utensils included manos and metates, mortars and pestles, hammerstones, fire drills, awls, arrow-straighteners, and stone knives and scrapers. These lithic tools were made from locally available material as well as exotic material procured through trade or travel. They also used wood, horn, and bone spoons and stirrers; baskets for winnowing, leaching, grinding, transporting, parching, storing, and cooking; and pottery vessels for carrying water, storage, cooking, and serving food and drink.

4.4 Historic Setting

In 1823-1825, José Romero, José Maria Estudillo, and Romualdo Pacheco became the first noted European explorers to travel through the Coachella Valley when they led a series of expeditions in search of a route to Yuma (Johnston 1987:92-95). Due to its harsh environment, few non-Indians ventured into the desert valley during the Mexican and early

American periods, except those who traveled along the established trails. The most important of these trails was the Cocomaricopa Trail, an ancient Indian trading route that was "discovered" in 1862 by William David Bradshaw and known after that as the Bradshaw Trail (Gunther 1984:71; Ross 1992:25). In much of the Coachella Valley, this historic wagon road traversed a similar course to that of present-day Highway 111. During the 1860s-1870s, the Bradshaw Trail served as the main thoroughfare between coastal southern California and the Colorado River, until the completion of the Southern Pacific Railroad in 1876-1877 brought an end to its heyday (Johnston 1987:185).

Non-Indian settlement in the Coachella Valley began in the 1870s with the establishment of railroad stations along the Southern Pacific Railroad and spread further in the 1880s after public land was opened for claims under the Homestead Act, the Desert Land Act, and other federal land laws (Laflin 1998:35-36; Robinson 1948:169-171). Farming became the dominant economic activity in the valley thanks to the development of underground water sources, often in the form of artesian wells. Around the turn of the century, the date palm was introduced into the Coachella Valley, and by the late 1910s dates were the main agricultural crop and the tree an iconic image celebrating the region as the "Arabia of America" (Shields Date Gardens 1957). Then, starting in the 1920s, a new industry featuring equestrian camps, resorts, hotels, and eventually country clubs began to spread throughout the Coachella Valley, transforming it into southern California's premier winter retreat.

The present-day City of Desert Hot Springs is among the communities that were largely created by the Coachella Valley's resort industry. Although sporadic settlement took place in the vicinity as early as 1908, the city owes much of its early growth to the abundance of hot mineral water along the San Andreas fault line. L.W. Coffee, who subdivided the Desert Hot Springs townsite in 1933, is also credited with the first successful development of the hot springs for commercial use (Gunther 1984:151). Advertised in the early and mid-20th century primarily for its potential for health spas and convalescent homes, Desert Hot Springs saw sufficient growth by 1944 to warrant the establishment of a post office. After a further growth spurt during the post-WWII boom, Desert Hot Springs incorporated as a city in 1963.

5.0 Regulatory Framework

National Historic Preservation Act (NHPA)

The principal federal law addressing historic properties is the NHPA, as amended (54 United States Code of Laws [USC] 300101 et seq.), and its implementing regulations (36 CFR Part 800). Section 106 requires a federal agency with jurisdiction over a proposed federal action (referred to as an "undertaking" under the NHPA) to take into account the effects of the undertaking on historic properties, and to provide the Advisory Council on Historic Preservation (ACHP) an opportunity to comment on the undertaking. The term "historic properties" refers to "any prehistoric or historic district, site, building, structure, or object included in, or eligible for inclusion in, the National Register" (36 CFR Part 800.16(*l*)(1)). The implementing regulations (36 CFR Part 800) describe the process for identifying and evaluating historic properties, for assessing the potential adverse effects of federal undertakings on historic properties, and seeking to develop measures to avoid, minimize, or mitigate adverse effects. The Section 106 process does not require the preservation of

historic properties; instead, it is a procedural requirement mandating that federal agencies take into account effects to historic properties from an undertaking prior to approval.

The steps of the Section 106 process are accomplished through consultation with the State Historic Preservation Officer (SHPO), federally recognized Indian tribes, local governments, and other interested parties. The goal of consultation is to identify potentially affected historic properties, assess effects to such properties, and seek waysto avoid, minimize, or mitigate any adverse effects on such properties. The agency also must provide an opportunity for public involvement (36 CFR 800.1(a)). Consultation with Indian tribes regarding issues related to Section 106 and other authorities (such as NEPA and Executive Order No. 13007) must recognize the government-to-government relationship between the Federal government and Indian tribes, as set forth in ExecutiveOrder 13175, 65 FR 87249 (Nov. 9, 2000), and Presidential Memorandum of Nov. 5, 2009.

National Register of Historic Places (NRHP)

The National Register of Historic Places was established by the NHPA of 1966, as “an authoritative guide to be used by federal, State, and local governments, private groups and citizens to identify the Nation’s historic resources andto indicate what properties should be considered for protection from destruction or impairment” (36 CFR 60.2). The National Register recognizes a broad range of cultural resources that are significant at the national, state, and local levels and can include districts, buildings, structures, objects, prehistoric archaeological sites, historic-period archaeological sites, traditional cultural properties, and cultural landscapes. As noted above, a resource that is listed in or eligible for listing in the National Register is considered “historic property” under Section106 of the NHPA.

To be eligible for listing in the National Register, a property must be significant in American history, architecture, archaeology, engineering, or culture. Properties of potential significance must meet one or more of the following four established criteria:

A. that are associated with events that have made a significant contribution to the broad patterns of our history; or
B. that are associated with the lives of persons significant in our past; or
C. that embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or
D. that have yielded, or may be likely to yield, information important in prehistory or history. (36 CFR 60.4)

In addition to meeting one or more of the criteria of significance, a property must have integrity. Integrity is defined as “the ability of a property to convey its significance.” The National Register recognizes seven qualities that,in various combinations, define integrity. The seven factors that define integrity are location, design, setting, materials, workmanship, feeling, and association. To retain historic integrity a property must possess several, and usually most, of these seven aspects. Thus, the retention of the specific aspects of integrity is paramount for a property to convey its significance.

Ordinarily religious properties, moved properties, birthplaces or graves, cemeteries, reconstructed properties, commemorative properties, and properties that have achieved significance within the past 50 years are not considered eligible for the National Register unless they meet one of the Criteria Considerations (A-G), in addition to meeting at least one of the four significance criteria and possessing integrity.

California Environmental Quality Act (CEQA)

For CEQA-compliance considerations, the State of California Public Resources Code (PRC) establishes that "a project that may cause a substantial adverse change in the significance of a historical resource is a project that may have a significant effect on the environment" (PRC §21084.1). "Substantial adverse change," according to PRC §5020.1(q), "means demolition, destruction, relocation, or alteration such that the significance of a historical resource would be impaired." As defined by PRC §5020.1(j), "'historical resource' includes, but is not limited to, any object, building, site, area, place, record, or manuscript which is historically or archaeologically significant, or is significant in the architectural, engineering, scientific, economic, agricultural, educational, social, political, military, or cultural annals of California."

More specifically, CEQA guidelines state that the term "historical resources" applies to any such resources listed in or determined to be eligible for listing in the California Register of Historical Resources, included in a local register of historical resources, or determined to be historically significant by the lead agency (Title 14 CCR §15064.5(a)(1)-(3)). Regarding the proper criteria of historical significance, CEQA guidelines mandate that "generally a resource shall be considered by the lead agency to be 'historically significant' if the resource meets the criteria for listing on the California Register of Historical Resources" (Title 14 CCR §15064.5(a)(3)). A resource may be listed in the California Register if it meets any of the following criteria:

(1) Is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage.
(2) Is associated with the lives of persons important in our past.
(3) Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values.
(4) Has yielded, or may be likely to yield, information important in prehistory or history. (PRC §5024.1(c))

6.0 Archival Research

6.1 Records Search

On May 23 and June 5, 2025, CRM TECH archaeologist Deirdre Encarnación conducted the records search at the South Coastal Information Center (SCIC), San Diego State University, San Diego. During the records search, Encarnación examined the SCIC's maps, records, and databases for previously identified cultural resources and existing cultural resources

reports within a one-mile radius of the APE. Previously identified cultural resources include properties designated as California Historical Landmarks, Points of Historical Interest, or Riverside County Landmarks, as well as those listed in the National Register of Historic Places, the California Register of Historical Resources, or the California Historical Resources Inventory.

According to SCIC records, 14 studies have been conducted across the various areas of the APE (Figs. 18-20). Area A was included in the scope of a project-specific survey completed in 1979 (RI-00712 in Fig. 18), which covered approximately 560 acres of the then-undeveloped portion of the Mission Lakes Country Club (Scientific Resource Surveys 1979). Areas A, G, H, I, J-2, and K lie across or close to the study area of a 2010 Phase I survey for an earlier phase of the MSWD's sewer improvement project (RI-10254 in Figs. 18 and 19; Jacquemain et al. 2010). Neither of these surveys identified any cultural resources in or near the APE (*ibid.*). Various portions of I-10 Corridor fall within the scope of 12 previous studies for various projects ranging from commercial and industrial development to power transmission lines (Fig. 20). Like the two surveys mentioned above, all of these studies are now at least eight years old and are considered out-of-date for Section 106- or CEQA-compliance purposes today.

Within the one-mile scope of the records search, SCIC records identify approximately 150 additional studies and 127 previously recorded historical/archaeological resources (see Table 1). Four of these known cultural resources, designated Sites 33-008410, 33-028591, and 33-0028595, and Isolate 33-28593, were found within, partially within, or in very close proximity to the APE. All four of these localities dated to the historic period, and all of them were located in the vicinity of I-10 Corridor. Sites 33-028591 and 33-0028595 were refuse scatters made up of various types of metal cans from the 1930-1975 era, while Isolate 33-28593 consisted of a single crushed matchstick-filler vent-hole can that dated to the same period (Myers 2017a-c; see App. B). At the time of their recordation in 2017, these three localities were all determined not to be eligible for listing in the National Register of Historic Places or the California Register of Historical Resources (*ibid.*).

Site 33-008410 represented the former main access road built by the Metropolitan Water District of Southern California in the early 1930s for the construction of the Colorado River Aqueduct. After the completion of the project in 1938, the road was transferred to the County of Riverside and dedicated as a public highway named Dillon Highway, after County Supervisor Robert Emmet Dillon (Smallwood 2015:3; see App. B). In the Desert Hot Springs area, the original alignment of the 1933 access road has evolved into present-day Dillon Road and the segment of Indian Canyon Drive between Dillon Road and Garnet Avenue (*ibid*.:1). Despite its early associations with one of the most important water supply projects in California history, Dillon Road was previously determined not to meet any of the criteria for the National Register of Historic Places or the California Register of Historical Resources or to retain sufficient historic integrity in relation to its period of origin (*ibid*.:3-6; Brock and di Iorio 1998:8-9; see App. B).

None of the other 123 previously identified cultural resources within the records search scope was found in the immediate vicinity of the APE. However, the easternmost portion of Site 33-

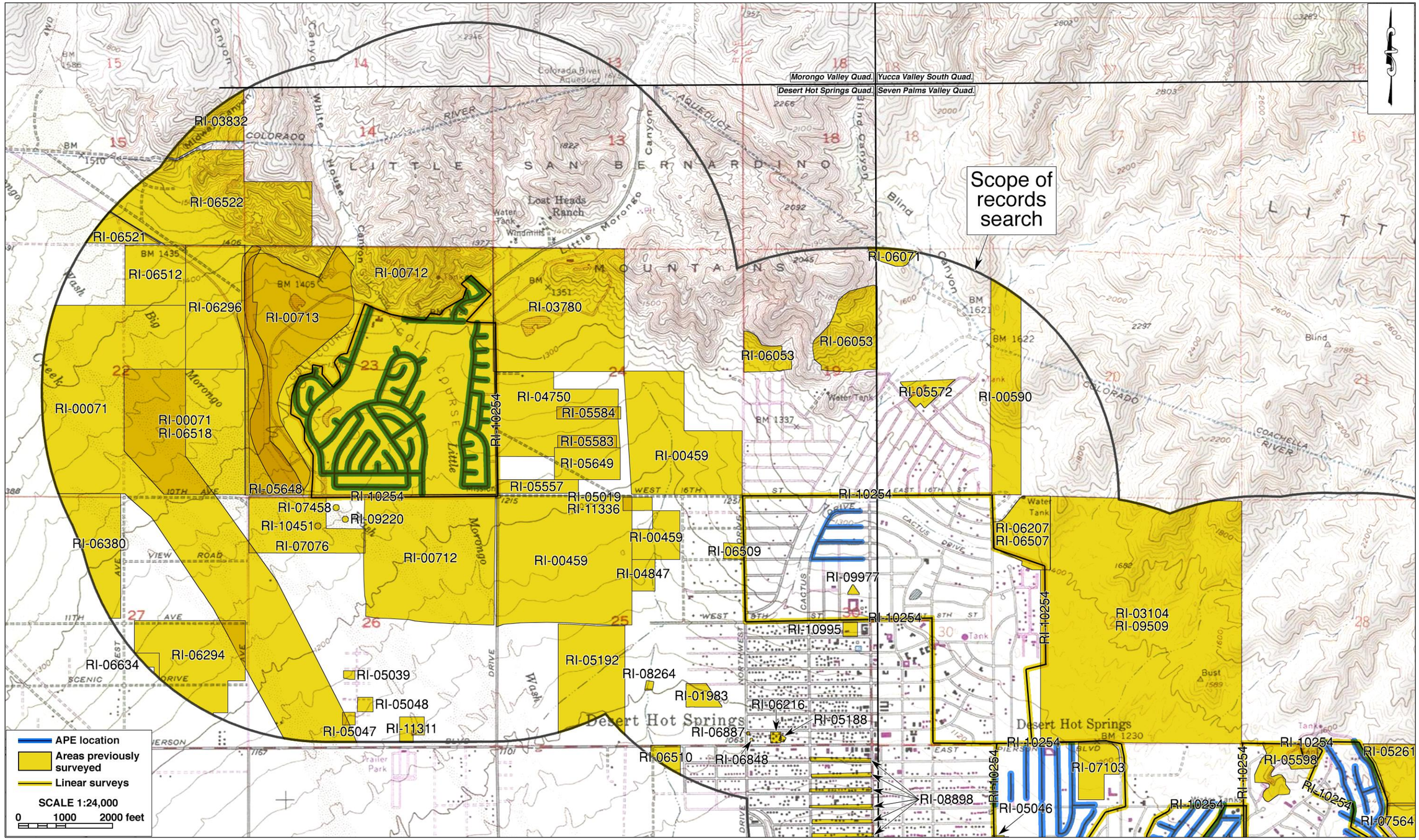

Figure 18. Previous cultural resources studies in and near Areas A and D-3, listed by SCIC file number. Locations of historical/archaeological resources are not shown as a protective measure.

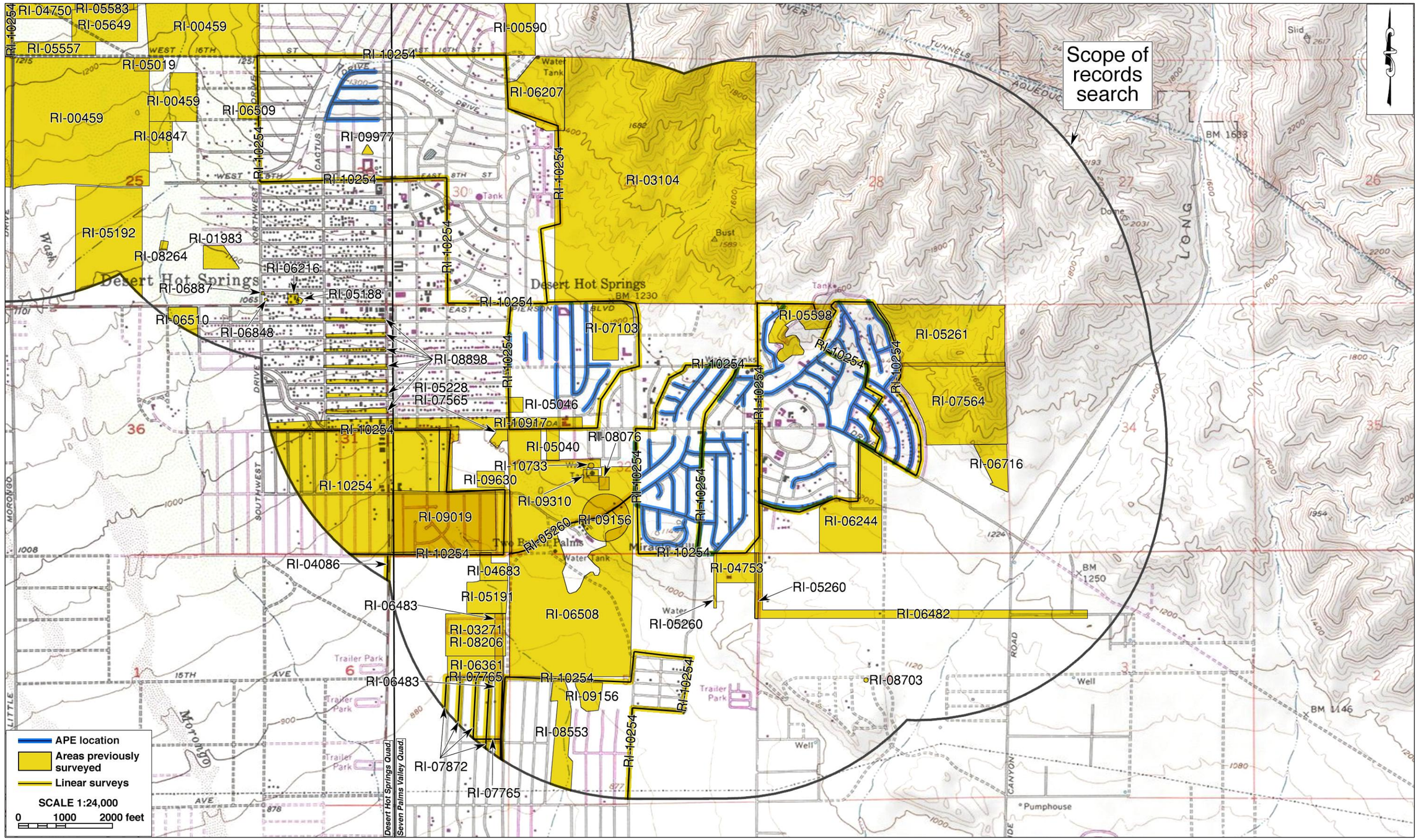

Figure 19. Previous cultural resources studies in and near Areas G, H, I, J-2, and K.

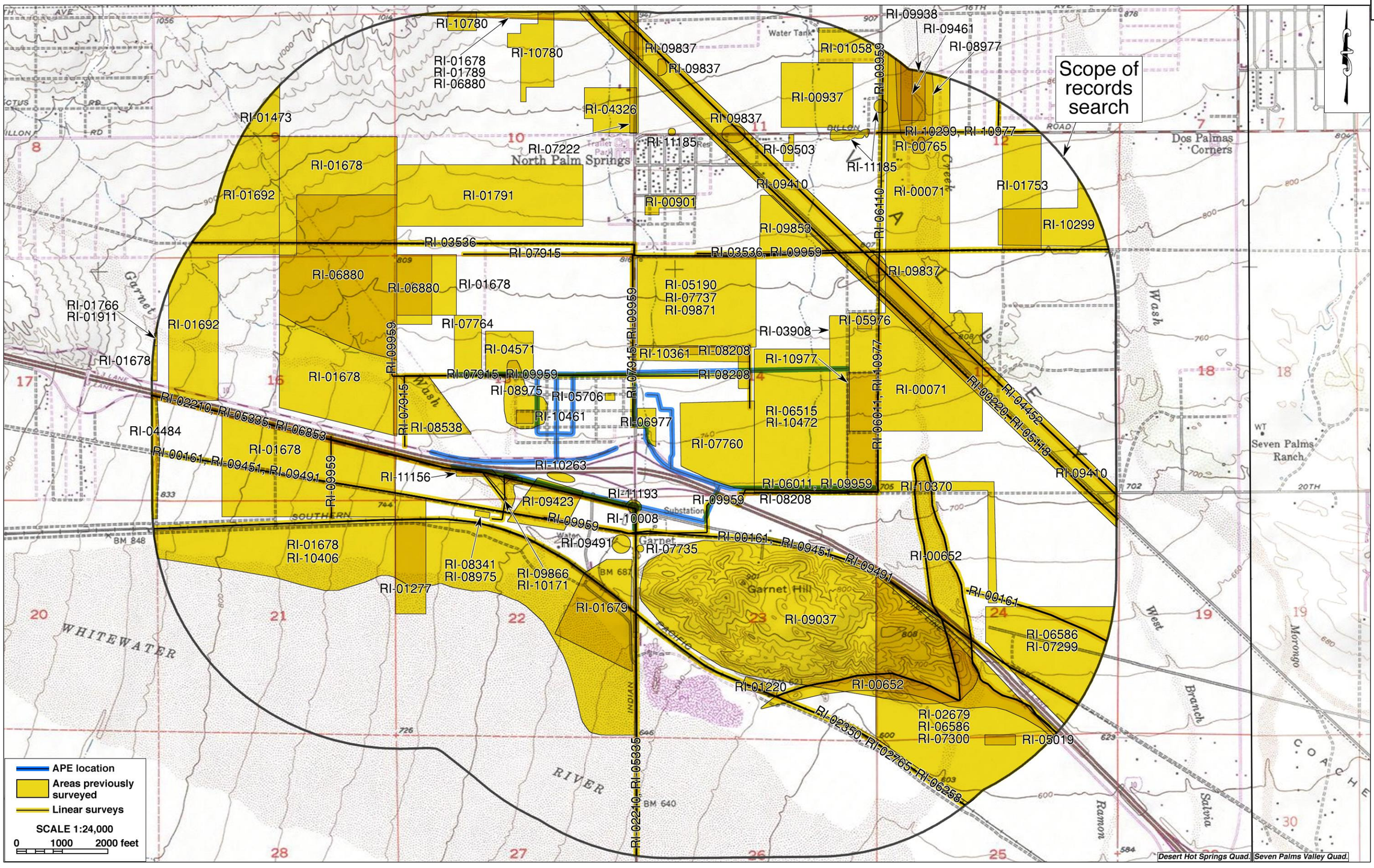

Figure 20. Previous cultural resources studies in and near I-10 Corridor.

Table 1. Previously Recorded Cultural Resources within the Scope of the Records Search		
Resource Number	**Date Recorded**	**Description**
33-001118/CA-RIV-01118	1976, 2004	Prehistoric ceramic sherd scatter
33-001119/CA-RIV-01119	1972-2004	Prehistoric habitation site
33-001246/CA-RIV-01246	1977, 2004	Prehistoric site
33-001294/CA-RIV-01294H	1972	Historic-period residential building made of local cobbles and mortar
33-001808/CA-RIV-01808	1979, 2004	Prehistoric ceramic scatter (destroyed by residential development)
33-003441/CA-RIV-03441H	1988	Historic-period structural foundations and refuse
33-006837	1983	Gurney Ranch, 1938
33-006840	1983	B Bar H Ranch, 1936
33-006842	1980, 1983	Cabot's Indian Pueblo, ca. 1941; California Point of Historical Interest
33-006843	1983	Lost Heads Ranch, 1950
33-006844	1983	Coffee's Pool, 1948
33-006845	1983	Historic-period Desert Hot Springs Library & Museum
33-006847	1983	Two residential buildings, 1932
33-006848	1983	Residential building, circa pre-1946
33-006849	1983	Cliff's Shop, 1951
33-006850	1983	Desert Hot Springs School House, ca. 1935
33-006887	1983	Residential building, 1946
33-006888	1983	Residential building, ca. 1935
33-006889	1983	Residential building, 1951
33-006891	1983	Residential building, 1946
33-006892	1983	Residential building, 1946
33-006893	1983	Residential building, 1941
33-006894	1983	Residential building, ca. 1940
33-006895	1983	Residential building, 1946
33-006896	1983	Residential building, 1946
33-006897	1983	Residential building, 1945
33-006898	1983	Los Chimeneas, 1949
33-006899	1983	Residential building, 1946
33-006900	1983	Residential building, 1950
33-006901	1983	Residential building, 1946
33-006902	1983	Residential building, 1945
33-006903	1983	Residential building, 1949
33-006904	1983	Residential building, 1950
33-006905	1983	Residential building, 1943
33-006906	1983	Residential building, 1946
33-006907	1983	Stone Crest, 1949
33-006908	1983	Residential building, 1942
33-008403	1998	Two-lane asphalt road, ca. 1940s
33-008408	1998-2015	Varner Road, ca. 1915
33-008409	1998	Palm Drive, ca. 1930s and 1967
33-008410/CA-RIV-13015H*	1998, 2015	Dillon Road, 1933
33-009498/CA-RIV-06381H	1999-2017	Southern Pacific Railroad, ca. 1870
33-011265	2000-2013	California River Aqueduct, ca. 1930s
33-012629	1992	Isolate: prehistoric ceramic sherd
33-012922	1979	Isolate: historic-period nail
33-013425	1979	Prehistoric ceramic sherd and two portable metates
33-013426	1979	Historic-period glass fragments
33-013435	1979	Prehistoric ceramic sherds and two metates
33-013605/CA-RIV-7491H	2004	Scott Farris Date Farm, 1947

Table 1. Previously Recorded Cultural Resources within the Scope of the Records Search		
Resource Number	**Date Recorded**	**Description**
33-013898/CA-RIV-07606H	2004, 2006	Historic-period concrete foundation and four associated artifact concentrations
33-014810	2004	Residential building, 1948
33-014849	2005	Isolate: prehistoric ceramic scatter
33-014863	1979	Duplicate of 33-013426
33-015035	1998-2019	Chino-Hayfield 200kV Transmission Line
33-015145/CA-RIV-08054	2006	Possible prehistoric stone circle
33-015281	2006	Isolate: prehistoric ceramic scatter
33-015282	2006	Isolate: prehistoric lithic flake
33-015298	2005	Isolate: historic-period bottle neck
33-016938/CA-RIV-08105	2008	Prehistoric artifact scatter
33-017841/CA-RIV-09232H	2009	Historic-period refuse scatter
33-017842/CA-RIV-09233H	2009, 2015	Historic-period foundation, collapsed walls, and refuse scatter
33-018094	2010	Isolate: prehistoric lithic flake
33-018166	2010	Isolate: prehistoric ceramic sherds
33-018169	2010	Isolate: historic-period can and glass bottle
33-018665	2010	Historic-period porcelain insulators
33-018666	2010	Ceramic doll head, ca. 1950s
33-019935/CA-RIV-10127	2011	Prehistoric ceramic scatter
33-022389	2012	Devers-Vista #1 220kV Transmission Line (partially encompassed by 33-015035)
33-024265	2015	Isolate: prehistoric ceramic sherds
33-024266	2015	Isolate: prehistoric ceramic sherds
33-024705/CA-RIV-12230H	2015	Historic-period road
33-024712/CA-RIV-12236H	2015	Historic-period road
33-024713/CA-RIV-12237H	2015	Historic-period road
33-024714	2015	Historic-period road
33-024716/CA-RIV-12239H	2015	Historic-period electrical substation
33-024717	2015	Historic-period cans and bottle fragment
33-026494	2011	Prehistoric ceramic sherds
33-026706	2016	Isolate: prehistoric lithic flake
33-026872	2016	Isolate: historic-period can
33-026873	2016	Isolate: historic-period can
33-026874	2016	Isolate: historic-period can
33-026875	2016	Isolate: historic-period cans
33-028014	2017	Prehistoric obsidian debitage
33-028015	2017	Isolate: historic-period cans
33-028053	2017	Historic-period segment of 20th Avenue
33-028585	2017	Isolate: historic-period can
33-028586	2017	Isolate: historic-period can
33-028587	2017	Isolate: historic-period can
33-028591/CA-RIV-12879H*	2017	Historic-period refuse scatter
33-028592/CA-RIV-12880H	2017	Historic-period refuse scatter
33-028593*	2017	Isolate: historic-period can
33-028594	2017	Isolate: historic-period can
33-028595/CA-RIV-12881H*	2017	Historic-period refuse scatter
33-028596	2017	Isolate: historic-period can
33-028597	2017	Isolate: historic-period cans
33-028598/CA-RIV-12882H	2017	Historic-period refuse scatter
33-028599	2017	Isolate: historic-period glass bottle isolate
33-028600	2017	Isolate: historic-period can and bottle fragment

Table 1. Previously Recorded Cultural Resources within the Scope of the Records Search		
Resource Number	**Date Recorded**	**Description**
33-028601	2017	Isolate: historic-period can
33-028951	2018	Isolate: historic-period can
33-028952	2018	Historic-period metal automobile part
33-028969	2019	Prehistoric percussing tool
33-028970	2019	Isolate: prehistoric lithic flake
33-028971	2019	Isolate: prehistoric lithic flake
33-029139/CA-RIV-13022H	2022	Historic-period refuse scatter
33-029140/CA-RIV-13023H	2022	Historic-period power transmission line
33-029326/CA-RIV-13110H	2015, 2018	Historic-period refuse scatter
33-029328/CA-RIV-13112H	2015	Isolate: historic-period can
33-029329/CA-RIV-13113H	2015	Historic-period glass insulator fragment
33-029330/CA-RIV-13114H	2015	Isolate: historic-period cans
33-029331	2015	Isolate: historic-period glass bottle stopper
33-029332/CA-RIV-13116H	2015	Isolate: historic-period can
33-029333/CA-RIV-13117H	2015	Isolate: historic-period can
33-029334/CA-RIV-13118H	2015	Isolate: historic-period can
33-029335/CA-RIV-13119H	2015	Isolate: historic-period can
33-029336/CA-RIV-13120H	2015	Isolate: historic-period can
33-029337/CA-RIV-13121H	2015	Isolate: historic-period can
33-029338/CA-RIV-13122H	2015	Isolate: historic-period can
33-029339/CA-RIV-13123H	2015	Isolate: historic-period can
33-029340/CA-RIV-13124H	2015	Isolate: historic-period can
33-029417	2023	Isolate: historic-period can
33-029418	2023	Isolate: prehistoric ceramic sherd
33-029419/CA-RIV-13172H	2023	Historic-period concrete foundation and two posts
33-029420/CA-RIV-13173H	2023	Historic-period road
33-029421/CA-RIV-13174H	2023	Historic-period road
33-029740/CA-RIV-13257H	2015, 2018	Historic-period refuse scatter
33-029778/CA-RIV-13268H	2023	Historic-period refuse scatter

* Recorded as lying within, partially within, or in close proximity to the APE

001246 was located within a few hundred feet of the APE along Miracle Hill Road. First recorded in 1977, Site 33-001246 was subject to archaeological testing and a data recovery program in 2006. Excavations into the various mesquite dunes within the site boundary resulted in the discovery of deeply buried and stratified archaeological deposits associated with Late Archaic and Late Prehistoric cultures. These deposits contain dense clusters of artifacts and features of diverse types, suggesting intensive residential occupation and extensive use over the past 2,500 years.

Late Prehistoric living surfaces with multiple thermal features and distinct work areas have been discovered in the easternmost portion of the site, approximately 900 feet west of the APE. This includes the remains of a *ramada* floor, a processing area with groundstone but few flaked-stone artifacts, and a flaked-stone tool production area surrounding a thermal feature and containing a multitude of Cottonwood Triangular and Desert Side-Notched projectile points. Deposits in this area of the site ranged from the surface to depths of more than one meter.

The deepest archaeological deposits encountered during the excavations at Site 33-001246 were in the western portion of the site and extended to a depth of approximately three meters

below the surface of a large mesquite dune. It was here that the region's only known Archaic pit house feature was discovered in association with a concentration of stone beads, groundstone and flaked-stone artifacts, a bone awl, and several thermal features, including a large rock-lined oven or roasting pit. Based on the quantity, quality, and diversity of cultural remains it contains, Site 33-001246, dubbed the Two Bunch Palms village site, is considered to be one the most significant and unique prehistoric archaeological resources in the western Colorado Desert.

6.2 Sacred Lands File and Tribal Coordination

On May 12, 2025, CRM TECH submitted a written request to the State of California Native American Heritage Commission (NAHC) for a records search in the commission's Sacred Lands File (SLF; see App. C). In response, the NAHC reported in a letter dated May 28, 2025, that the SLF identified no Native American cultural resources in the vicinity of the APE. However, noting that tribes are not required to list their sacred sites in the SLF, the NAHC recommended that local Native American groups be contacted for further information. For that purpose, the NAHC provided a referral list of 29 individuals affiliated with 14 tribal organizations in the region (see App. C).

Following the commission's recommendations and previously established consultation protocol, on June 3, 2025, CRM TECH sent written requests for comments to all 14 of the tribes on the referral list (see App. C). Follow-up telephone solicitations were subsequently made on June 17 and 24, 2025 (see App. C). For some of the tribes, the designated spokespersons on cultural resources issues were contacted in lieu of the individuals on the NAHC's referral list, as recommended by the pertinent tribal government staff in the past. The 14 tribal representatives who were the primary points of contact are listed below:

- Lacy Padilla, Director of Historic Preservation/Tribal Historic Preservation Officer (THPO), Agua Caliente Band of Cahuilla Indians
- Tribal Operations, Augustine Band of Cahuilla Indians
- Michael Mirelez, Director of Cultural Affairs, Cabazon Band of Cahuilla Indians
- BobbyRay Esparza, Cultural Director, Cahuilla Band of Indians
- Ray Chapparosa, Chairperson, Los Coyotes Band of Cahuilla and Cupeño Indians
- Ann Brierty, THPO, Morongo Band of Mission Indians
- Jill McCormick, Historic Preservation Officer, Quechan Indian Tribe of the Fort Yuma Reservation
- John Gomez, Environmental Coordinator, Ramona Band of Cahuilla
- Vanessa Minott, Tribal Administrator, Santa Rosa Band of Cahuilla Indians
- Wayne Walker, Co-Chairperson, Serrano Nation of Mission Indians
- Jessica Valdez, Cultural Resource Specialist, Soboba Band of Luiseno Indians
- Abraham Becerra, Cultural Coordinator, Torres Martinez Desert Cahuilla Indians
- Christopher Nicosia, Cultural Resources Manager/THPO Manager, Twenty-Nine Palms Band of Mission Indians
- Alexandra McCleary, Senior Manager of Cultural Resources Management, Yuhaaviatam of San Manuel Nation (a.k.a. the San Manuel Band of Mission Indians)

As of this time, five of the tribes have responded to the inquiry in writing, and three others have provided their comments by telephone (see App. C). Among them, the Augustine Band, the Quechan Indian Tribe, and the Santa Rosa Band expressed no concerns over this undertaking. The Quechan Indian Tribe deferred to other tribes in closer proximity to the APE, while the Soboba Band and the Torres Martinez band deferred specifically to the Agua Caliente Band. The Twenty-nine Palms Band stated that they were unaware of any cultural resources in the APE, and the Yuhaaviatam found the area to be low in sensitivity for cultural resources. Both tribes, however, consider the project location to be a part of their traditional territory, and both requested further consultation regarding this undertaking. The Agua Caliente Band also consider the APE a part of their traditional use area. In addition, the Agua Caliente Band reported that there were several tribal cultural resources adjacent to the APE. Therefore, the tribe requested to review all cultural resources documentation generated for this undertaking, including the records search results.

6.3 Historic Maps and Aerial Photographs

Historical background research for this study was conducted by CRM TECH archaeologist Elizabeth Beckner on the basis of published literature in local and regional history as well as historical maps and aerial/satellite photographs of the project vicinity. Among the maps consulted were the U.S. General Land Office's (GLO) land survey plat maps dated 1856 and USGS topographic maps dated 1940-1994, which are available at the websites of the U.S. Bureau of Land Management and the USGS. The aerial and satellite photographs, taken between 1955 and 2025, are available on the Nationwide Environmental Title Research (NETR) Online website and through Google Earth software.

In 1856, Area A of the APE was large devoid of any signs of human activities with the exception of a "Road Leading to the Mohave River" running in a northeast-southwest direction across the project alignments at present-day Clubhouse Boulevard and Augusta Avenue (Fig. 21). Similarly, Areas D-3, G, H, I, J-2 and K were situated on unsettled and undeveloped land, and the only human-made feature noted nearby was an "Indian trail" running in a northwest-southeast direction to the southwest of these portions of the APE (Figs. 22, 23). At I-10 Corridor, an "Indian trail" crossed the APE in a generally east-west direction, while another road passed to the south along the Whitewater River (Fig. 24). The "Indian trail" across this portion of the APE was clearly a branch of the Cocomaricopa-Bradshaw Trail that would eventually evolve into U.S. Route 60/70/99 in the early 20th century and, after World War II, today's I-10 (Johnston 1987).

By 1940, Desert Hot Springs was a budding resort town known for its hot mineral water found along the San Andreas fault line, accompanied by a few outlying settlements such as the Two Bunch Palms Ranch and early settler Cabot Yerxa's homestead on Miracle Hills, both in close proximity to Area H (Figs. 25-28). At that time, some of the main thoroughfares across or near the various portions of the APE were in place, such as Indian Canyon Drive, Little Morongo Road, Palm Drive, Garnet Avenue (then U.S. Route 60/70/99), 20th Avenue, and the forerunner of Hacienda Avenue, but few of the secondary streets containing the proposed sewer pipeline alignments had yet appeared (Figs. 25-28). In contract, by the 1950s all of the residential streets in the Areas D-3, G, H, I, J-2, and K had been paid out,

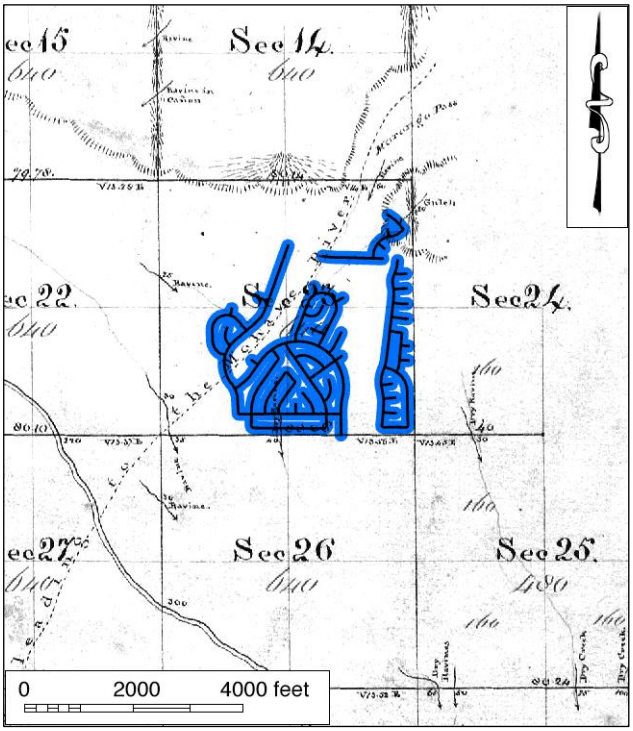

Figure 21. Area A in 1855-1856. (Source: GLO 1856a)

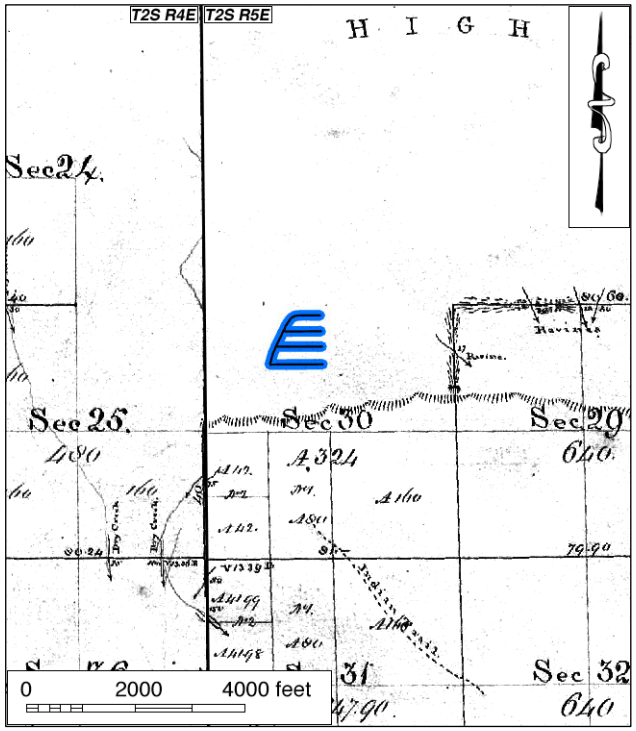

Figure 22. Area D-3 in 1855-1856. (Source: GLO 1856a; 1865b)

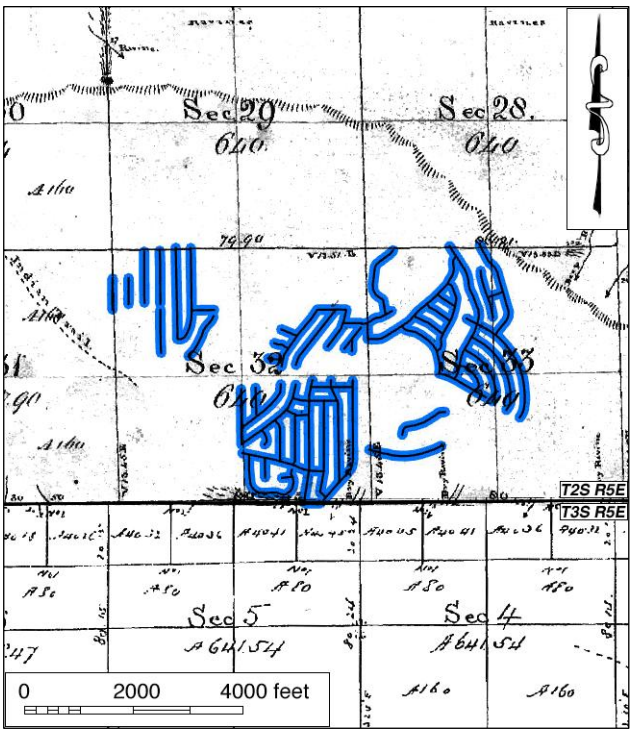

Figure 23. Areas G, H, I, J-2, and K in 1855-1856. (Source: USGS 1856b; 1856d)

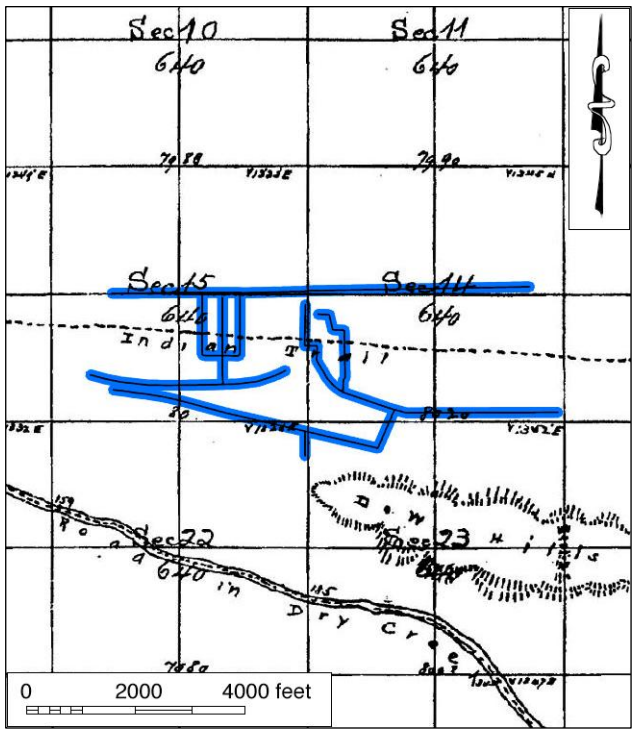

Figure 24. I-10 Corridor in 1855-1856. (Source: GLO 1856c)

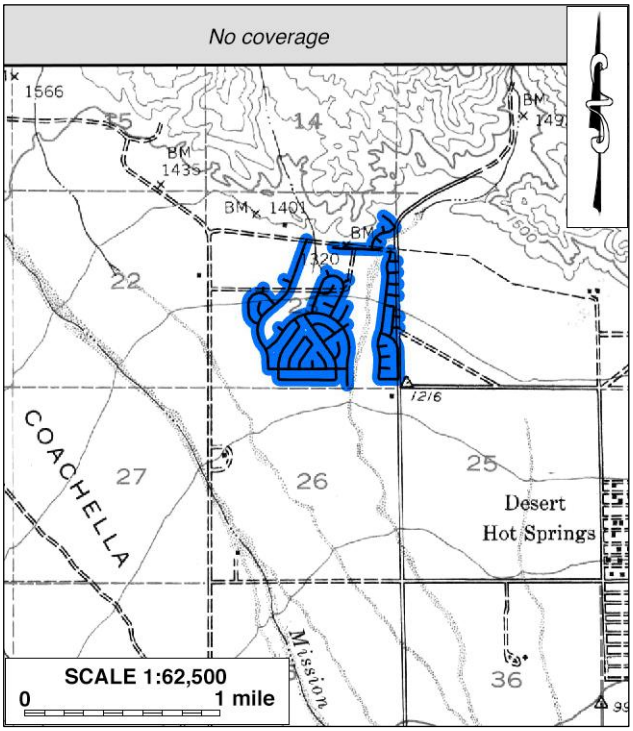

Figure 25. Area A in 1940. (Source: USGS 1940)

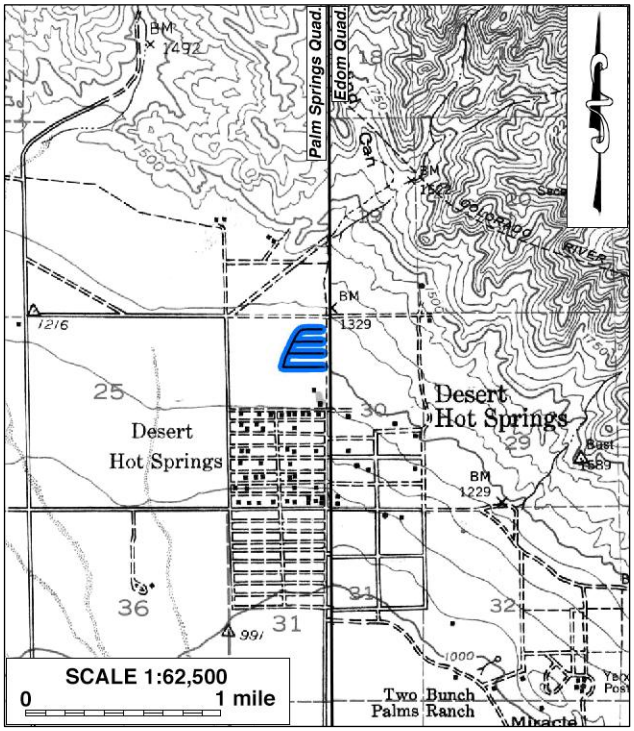

Figure 26. Area D-3 in 1940-1941. (Source: USGS 1940; 1941)

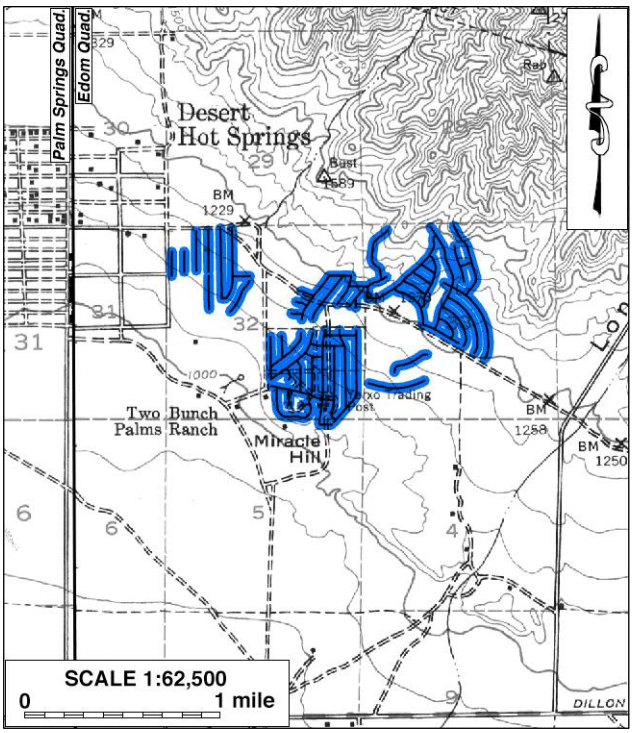

Figure 27. Areas G, H, I, J-2, and K in 1940-1941. (Source: USGS 1940; 1941)

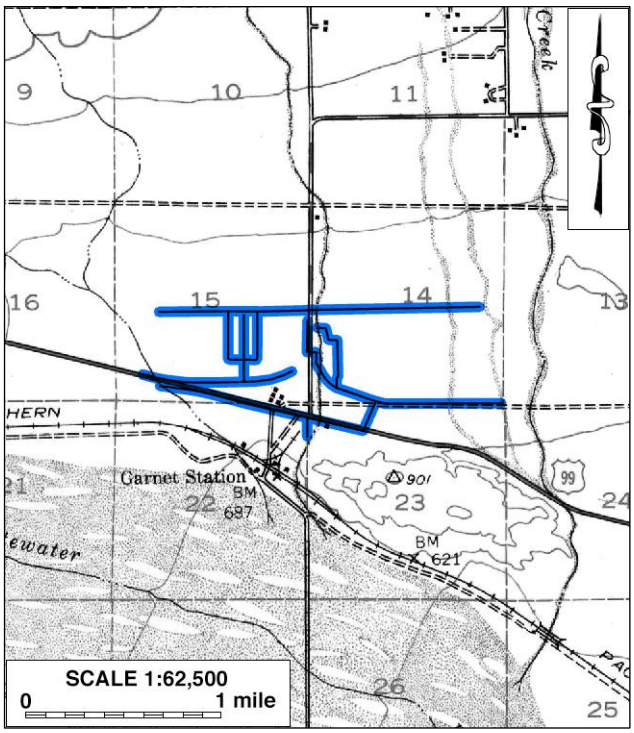

Figure 28. I-10 Corridor in 1940. (Source: USGS 1940)

followed by those in Area A by the early 1970s (Figs. 29-31; NETR Online 1955; 1972). Over the second half of the 20th century, all of these residential neighborhoods were gradually built out (NETR Online 1955-2002).

To the southwest, the I-10 Corridor area remained sparsely developed prior to the 1980s, with only a few buildings clustered around the I-10 on- and off-ramps at Indian Canyon Drive (Fig. 32; NETR Online 1955-1979). Beginning in the 1980s, commercial development greatly accelerated in that area, especially to the north of the freeway interchange (NETR Online 1984-2022; Google Earth 1996-2025). Most of the roadways along the proposed sewer pipeline alignments in the area have been constructed since the mis-1980s (*ibid*.).

6.4 Geoarchaeological Analysis

As a part of the research procedures, CRM TECH archaeologist Elizabeth Beckner pursued geoarchaeological analysis to assess the APE's potential for the deposition and preservation of subsurface cultural deposits from the prehistoric period, which cannot be detected through a standard surface archaeological survey. Sources consulted for this purpose included primarily topographic and geologic maps and reports pertaining to the project vicinity. Findings from these sources were used to develop a geomorphologic history of the APE and address geoarchaeological sensitivity of the vertical APE.

Lancaster et al. (2012) identify most of the soils in Area A of the APE as *Qyf*, or young alluvial fan deposits, with the rest of the area featuring *Qw*, alluvial wash deposits, and a very small

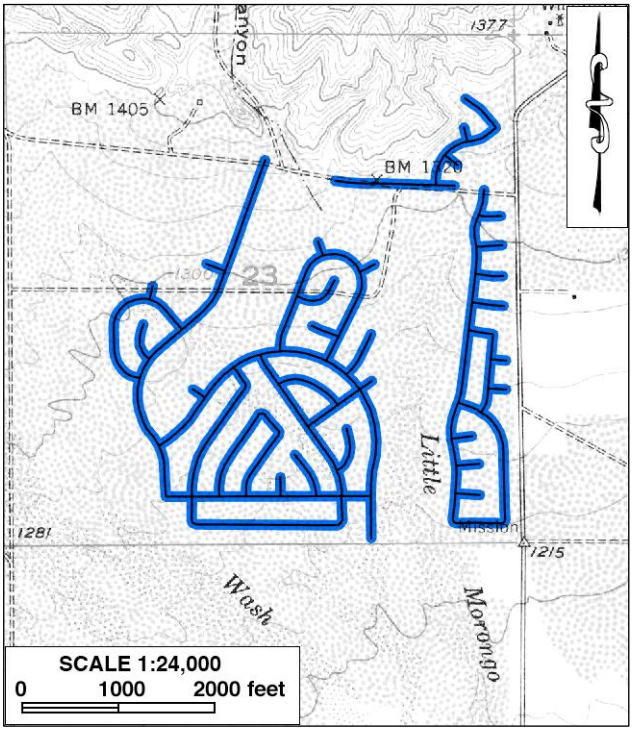

Figure 29. Area A in 1951-1955. (Source: USGS 1955)

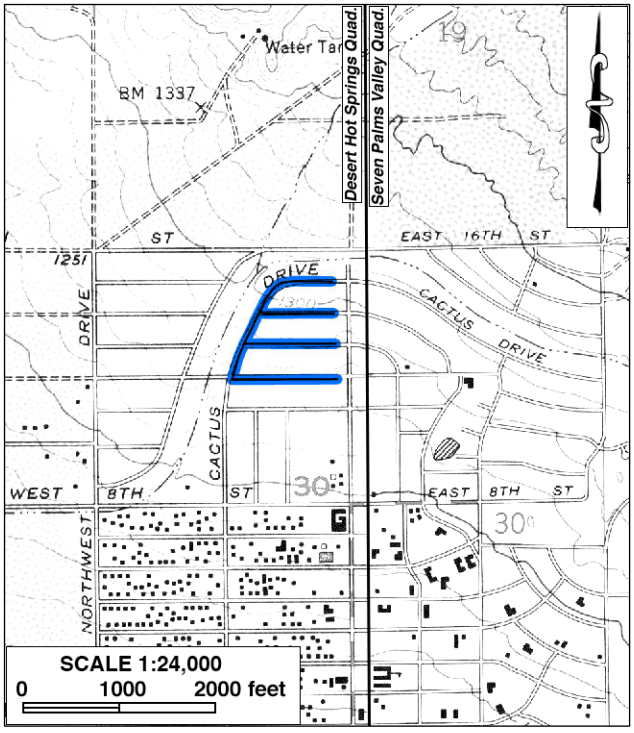

Figure 30. Area D-3 in 1951-1958. (Source: USGS 1955; 1958)

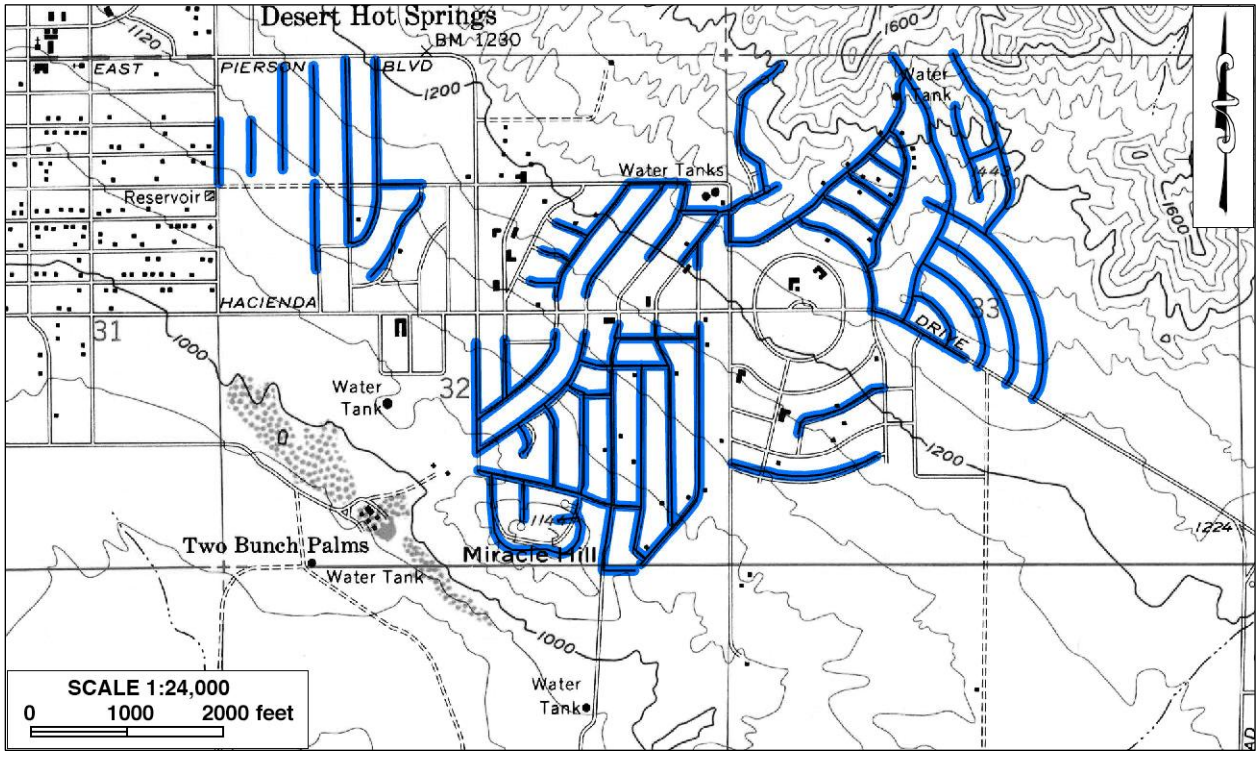

Figure 31. Areas G, H, I, J-2, and K in 1956-1958. (Source: USGS 1958)

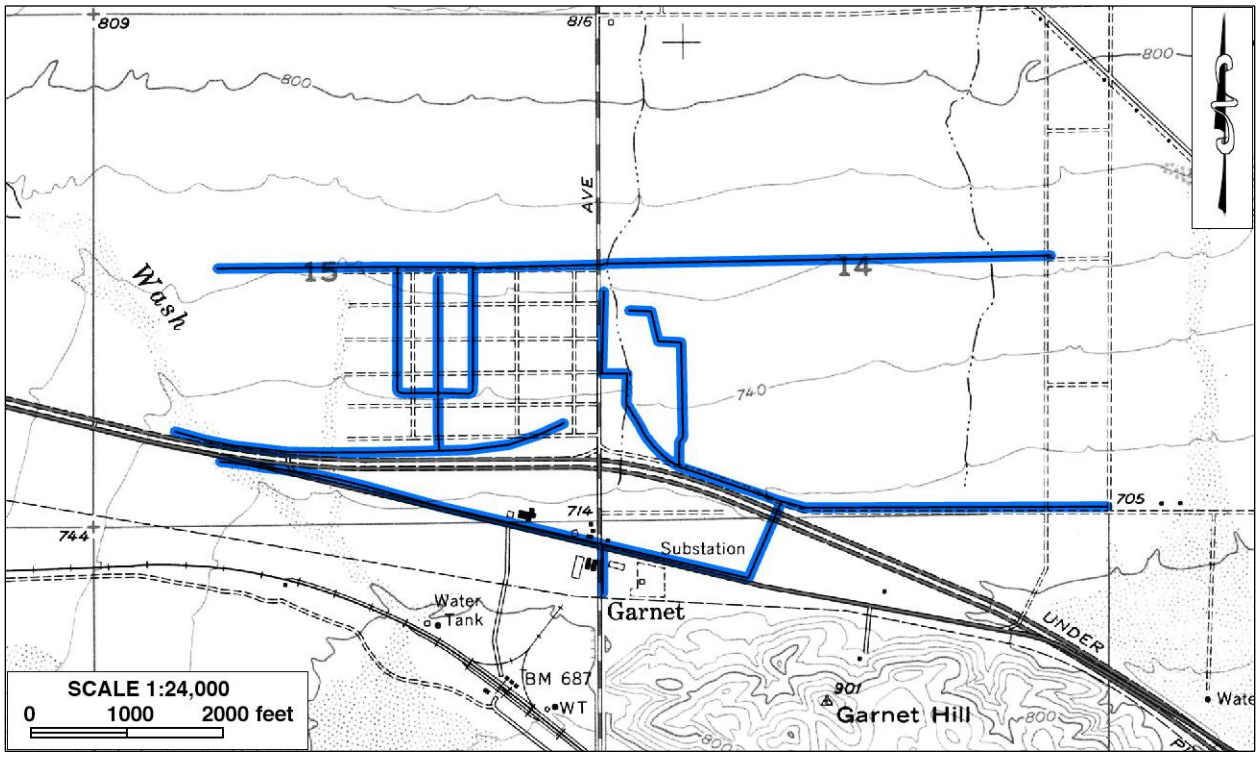

Figure 32. I-10 Corridor in 1951-1955. (Source: USGS 1955)

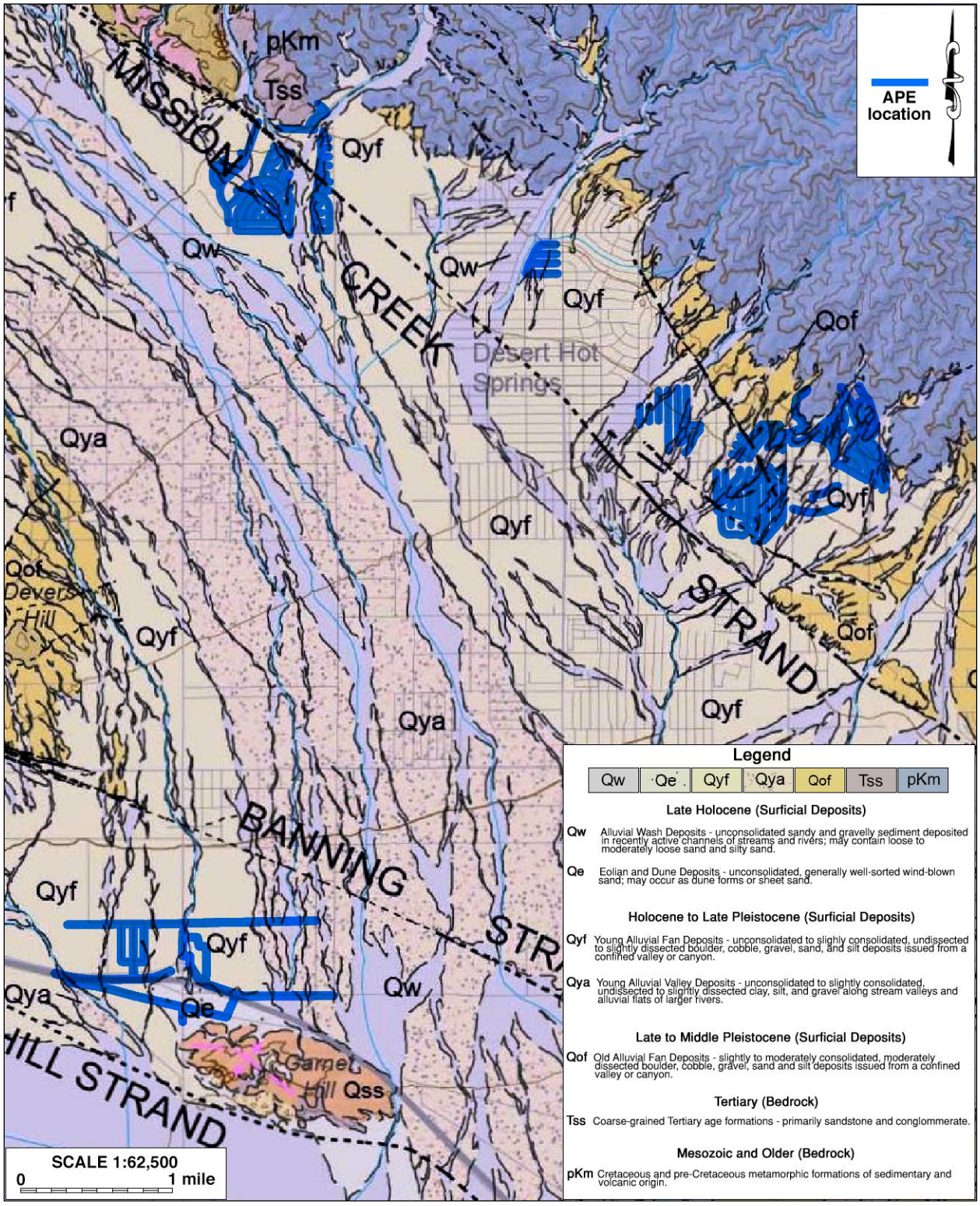

Figure 33. Surface sediments in and around the APE. (Source: Lancaster et al. 2012)

amount of *pKm*, Cretaceous and pre-Cretaceous metamorphic formations (Fig. 32). The young alluvial fan deposits, *Qyf*, date to the Holocene to Late Pleistocene and is described as “unconsolidated to slightly consolidated, undissected to slightly dissected boulder, cobble, gravel, sand, and silt deposits issued from a confined valley or canyon” (*ibid.*). *Qw* dates to the late Holocene and is described as “unconsolidated sandy and gravelly sediment deposited in recently active channels of streams and rivers,” while *pKm* is Mesozoic in age or older and is of “sedimentary and volcanic origin” (*ibid.*).

The surface soils in Area D-3 are identified as *Qyf* and *Qw*, while the soils in Area G are identified primarily as *Qyf*, with portions consisting of *Qw* (Fig. 32). In Areas H and I, the soils also consist of *Qyf* and *Qw*, with the northern portion of the areas having some *Qof*, or old alluvial fan deposits (Fig. 32), which date to the late to middle Pleistocene and are described as “slightly to moderately consolidated, moderately dissected boulder, cobble, gravel, sand and silt deposits issued from a confined valley or canyon” (Lancaster et al. 2012). The soils in Areas J-2 are identified as *Qyf*, *Qof*, and a small portion as *pKm*, while Area K is identified as *Qyf*, *Qw*, and *pKm* (Fig. 32). The soils in I-10 Corridor are identified as *Qyf*, *Qe* (eolian and dune deposits), and *Qya* (young alluvial valley deposits; Fig. 32). The eolian and dune deposits, *Qe*, date to the late Holocene and are described as “unconsolidated, generally well-sorted wind-blown sand,” while *Qya* dates to the Holocene to Late Pleistocene and is described as “unconsolidated to slightly consolidated, undissected to slightly dissected clay, silt, sand, and gravel along stream valleys and alluvial flats of larger rivers” (*ibid.*).

The potential for encountering buried archaeological deposits in the Holocene-age alluvial and fluvial soils that cover the majority of the APE ranges from low to high. The Pleistocene-age or older soils are known to be present on or very close to the surface. Deposited largely before widespread human habitation in this region, these soils are generally considered unlikely to contain deeply buried cultural materials.

Areas A, D-3, G, H, I, J-2, and K of the APE lie at a higher elevation, at and above the northwest-southeast trending Mission Creek branch of the San Andreas Fault, where geologic processes forced groundwater to the surface near Two Bunch Palms. Active springs in that area led to the development of an oasis lush with vegetation and full of wild game, which attracted human populations to settle the area over 2,000 years ago (Hogan and Tang 2005). These oases and the mesquite dunes that formed around them also provided shelter against the sometimes turbulent winds in the San Gorgonio Pass area, which was an important factor in the establishment of Native American settlements.

In comparison, the areas within the APE lacked both perennial water sources and vegetation that could provide shelter from the wind. Therefore, they would be considered less favorable for long-term human habitation in prehistoric times. They would likely be used as resource gathering areas where plant and animal resources were harvested for consumption and use at nearby habitation sites (e.g., the Two Bunch Palms oasis). As such, there is a low potential for substantial prehistoric archaeological deposits to be encountered subsurface in most of the APE. Conversely, along the southern portion Miracle Hill Road and the western portions of Loma Vista Road and Monterey Road, near the Two Bunch Palms village site, the potential for encountering buried, intact prehistoric archaeological deposits appears to be high.

During the historic period, the southern portions of Areas H and I were partially occupied by Cabot Yerxa's homestead with several buildings, including the Yerxa Trading Post identified on the 1940s USGS maps (Fig. 27). These buildings were evidently removed prior to the subdivision and residential development that occurred in the Miracle Hill area following WWII (Fig. 31; NETR Online 1955; 1972). At this time, the extent of ground disturbance resulting from the more recent development is unclear, as is the depth at which native sediments may be encountered underneath the existing roadbeds. As such, it is possible that buried archaeological deposits associated with the early 20th century settlement may be encountered during excavation in the southern portion of Areas H and I, around the intersection of Hidalgo Street/Yerxa Road and Loma Vista Road.

In summary, there is a low potential for encountering buried archaeological deposits associated with prehistoric and historic land use and settlement in most of the APE. However, areas with a moderate to high potential for encountering such deposits are identified along the southern portion Miracle Hill Road and the western portions of Loma Vista Road and Monterey Road, as well as around the intersection of Hidalgo Street/Yerxa Road and Loma Vista Road.

7.0 Cultural Resources Survey

7.1 Survey Methods

On June 18, 2025, CRM TECH archaeologist Melissa Portilla carried out the field survey of Areas A, G, H, I, K, and I-10 Corridor of the APE with the assistance of two tribal monitors from the Agua Caliente Band of Cahuilla Indians. On July 7, 2025, Areas D-3 and J-2 were surveyed by CRM TECH field director Daniel Ballester. In Areas A, D-3, G, H, I, J-2, K, and the portions of I-10 Corridor along paved roads, the survey was conducted at a reconnaissance level by driving slowly along each roadway included in the APE and visually inspecting the public rights-of-way and the portions of the parcels along the routes lying immediately adjacent to the rights-of-way.

For the portions of the APE in I-10 Corridor that are unpaved or are inaccessible by vehicle, the survey team conducted an intensive-level pedestrian survey by walking along the linear path of the APE and visually inspecting the adjacent land. In this way, the ground surface in the entire APE was systematically and carefully examined for any evidence of human activities dating to prehistoric or historic period (i.e., 50 years of age or older). Visibility of the native ground surface was essentially 0% in the paved areas but was mostly excellent (90-100%) in unpaved areas where vegetation was sparse. A portion of the APE within I-10 Corridor on 20th Avenue, north of the I-10 freeway, is covered by dense brush within the drainage, which reduced ground visibility to less than 15%.

7.2 Survey Results

Areas A, D-3, G, H, I, J-2, and K are predominantly residential neighborhoods with some commercial establishments, while I-10 Corridor consists of commercial and industrial properties and vacant land. Much of the ground surface in the APE is paved or covered by

landscaping, with little vestige of the native ground surface visible. In addition, two small portions of the APE in I-10 Corridor had restricted access, where the survey team was unable to enter due to active road construction east of Indian Canyon Drive on 20th Avenue and east of Calle de los Romos on 19th Avenue. Both of these areas, however, are located within and adjacent to paved roadbeds. in light of the extent of past ground disturbances in the vicinity, the visibility level and restricted access were not considered a major hindrance to the survey effort.

The field survey of the APE yielded negative results for potential “historic properties” or “historical resources,” and no buildings, structures, objects, features, or artifacts of potential historic significance were observed within the APE boundaries. No trace of Sites 33-028591 and 33-0028595, the two previously recorded historic-period refuse scatters, or Isolate 33-28593, the metal can, were discovered at or near their previously reported locations. As demonstrated by the historical research results, most of the roadways in the APE are now more than 50 years old, including the segment of Indian Canyon Drive between Dillon Road and Garnet Avenue, which is a part of Site 33-008410. However, the current appearance of these roads reflects the results of decades of upgrading and maintenance during the modern era, and none of them demonstrates any particularly historical character (Fig. 34).



Figure 34. Segment of Indian Canyon Drive in the APE (Site 33-008410), south of Garnet Avenue. (Photographs taken on June 18, 2025; view to the north)

8.0 Significance Evaluation

As stated above, four cultural resources of historical origin were previously recorded within, partially within, or in very close proximity to the APE, all of them in the vicinity of I-10 Corridor. Among these, Site 33-028591, Isolate 33-028593, and Site 33-028595 consisted of refuse items from the 1930s-1970s period. Isolates like 33-028593, or localities with fewer than three artifacts, by definition do not qualify as archaeological sites due to the lack of contextual integrity. Therefore, 33-028593 would not constitute a potential "historic property" or "historical resource." Both of the sites, meanwhile, were determined not to be eligible for the National Register of Historic Places or the California Register of Historical Resources when they were first recorded in 2017 (Myers 2017a; Myers 2017b; see App. B). During the field survey, none of the artifacts recorded at these three localities could be found. As such, Site 33-028591, Isolate 33-028593, and Site 33-028595 were deemed to be no longer extant and thus require no further consideration during this study.

Site 33-008410 represents the former alignment of the main construction access road for the Colorado River Aqueduct project, which coincided partially with the segments of Indian Canyon Drive in the APE. Like Sites 33-028591 and 33-0028595, Site 33-008410 was previously determined not to be eligible for listing in the National Register of Historic Places or the California Register of Historical Resources (Smallwood 2015:3-6; Brock and di Iorio 1998:8-9; see App. B). Field observations during this study show the segments of Indian Canyon Drive in the APE to be essentially modern in appearance due to upgrading and maintenance during recent decades and retain little historic integrity to relate to the road's 1930s period of origin (Fig. 34). Therefore, the present study concurs with the previous evaluation of Site 33-008410.

9.0 Conclusions and Recommendations

9.1 Historical Architectural Resources

The only built-environment feature in the APE that was previously identified as a cultural resource, Site 33-008410, does not meet the definition of a "historic property" under Section 106 or a "historical resource" under CEQA. Also in the APE, most of the existing roadways containing the proposed sewer main pipelines are now more than 50 years of age, but their current characteristics are a direct result of upgrading and maintenance during the modern era. As working components of the modern transportation infrastructure, they are not considered potential "historic properties" or "historical resources."

Adjacent to the APE, numerous buildings along the project alinements date to the historic period. Since the installation of underground pipelines and associated laterals and the abatement of existing septic tanks have little potential to compromise their historic integrity in terms of location, design, setting, materials, workmanship, feeling, and association, the buildings adjacent to the project alignments were not included in the APE and do not require any further consideration. In summary, the proposed undertaking would not cause an "adverse effect" or a "substantial adverse change" to any historical architectural resources that qualify as "historic properties" or "historical resources."

9.2 Archaeological Resources

None of the three archaeological resources previously recorded within, partially within, or in very close proximity to the APE, Site 33-028591, Isolate 33-028593, and Site 33-028595, could be found in the field today. Therefore, the proposed undertaking would not affect any known archaeological resources. The geoarchaeological analysis suggests that most of the vertical APE is relatively low in sensitivity for subsurface deposits of intact, potentially significant archaeological remains from the prehistoric or early historic period. However, two areas of moderate to high sensitivity for buried archaeological deposits were identified from the sources consulted.

Historical maps indicate that buildings associated with well-known early settler Cabot Yerxa's homestead and trading post once stood in or near the southern portions of Areas H and I, around the intersection of Hidalgo Street/Yerxa Road and Loma Vista Road. To the west of that location, existing archaeological records show the eastern extent of Site 36-001246, known as the Two Bunch Palms village site, lies a few hundred feet from the southwestern portion of Area H, namely along the southernmost segment of Miracle Hill Road and the westernmost segments of Loma Vista Road and Monterey Road.

Yerxa's homestead was evidently removed prior to the development of the Miracle Hill area, but it is possible that archaeological features and/or artifact deposits associated with the homestead may survive in this area at depth. Similarly, given the close distance, the possibility that buried prehistoric cultural deposits associated with Site 36-001246 may extend into the APE cannot be ruled out. Any archaeological discovery that is potentially related to either Cabot Yerxa's homestead or the Two Bunch Palms village site would require further study to examine its possible association with a historical figure of recognized importance to the community and the potential to yield important information for the study of local history or prehistory.

9.3 Recommendations

In conclusion, the undertaking as currently proposed would not cause an "adverse effect" or a "substantial adverse change" to any known "historic properties" or "historical resources," as defined by Section 106 and CEQA. While most of the APE appears relatively low in sensitivity for subsurface cultural deposits, the southern portions of Areas H and I and the southwestern portion of Area H demonstrate a moderate to high potential for such deposits, as outlined above.

Since the APE lies predominantly within the paved roadbeds of existing public roads or on adjacent private properties, standard subsurface exploration procedures known as Extended Phase I do not appear to be a feasible approach to determine the presence or absence of subsurface cultural remains in the vertical APE. In order to identify such remains in a timely manner and, if necessary, protect them from project impact, CRM TECH recommends that excavations and other ground-disturbing operations that will reach beyond the roadbed fill (generally speaking the uppermost five to six feet of surface and near-surface soils) in the archaeologically sensitive areas be conducted under the direction and close observation of a qualified archaeologist.

If any potentially significant cultural remains are encountered, the mechanical excavations should be halted or diverted while an archaeological team recovers the materials through procedures consistent to a Phase II archaeological testing program. These procedures should include, at a minimum, the following:

- Hand excavations in the immediate vicinity of unearthed cultural remains to remove all artifacts;
- Immediate notification of the Riverside County Coroner and consultation with the NAHC and local Native American groups if human remains or potential human remains are discovered, pursuant to California Health and Safety Code §7050.5 and Public Resources Code §5097.98;
- Cataloguing, laboratory analysis, and permanent curation of the recovered artifacts;
- Compilation of archaeological site records and/or site record updates, as appropriate, to document any archaeological discoveries in the California Historical Resources Inventory;
- Preparation of a final report as a comprehensive record of the research procedures and study findings.

Under this condition, the proposed undertaking may be cleared to proceed in compliance with Section 106 and CEQA provisions on cultural resources. No further cultural resources investigation is recommended for the rest of the APE unless project plans undergo such changes as to include areas not covered by this study. However, if buried cultural materials are encountered during earth-moving operations anywhere within the APE, all work in the immediate vicinity of the discovery should be halted or diverted until a qualified archaeologist can evaluate the nature and significance of the finds.

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Sutton, Mark Q., Mark E. Basgall, Jill K. Gardner, and Mark W. Allen
2007 Advances in Understanding Mojave Desert Prehistory. In T.L. Jones and K.A. Klar (eds.): *California Prehistory, Colonization, Culture, and Complexity*; pp. 229-246. Alta Mira Press, New York.
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1940 Map: Palm Springs, Calif. (15’, 1:62,500); aerial photographs taken in 1940.
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1955 Map: Desert Hot Springs, Calif. (7.5’, 1:24,000); aerial photographs taken in 1951, field checked in 1955.
1958 Map: Seven Palms Valley, Calif. (7.5’, 1:24,000); aerial photographs taken in 1956, field checked in 1958.
1969 Map: San Bernardino, Calif. (120’x60’, 1:250,000); 1958 edition revised.
1978a Map: Desert Hot Springs, Calif. (7.5’, 1:24,000); 1955 edition photorevised in 1972, photoinspected 1978.
1978b Map: Seven Palms Valley, Calif. (7.5’, 1:24,000); 1958 edition photorevised in 1972, photoinspected in 1978.
1979 Map: Santa Ana, Calif. (120’x60’, 1:250,000); 1959 edition revised.
1994 Map: Morongo Valley, Calif. (7.5’, 1:24,000); 1972 edition revised in 1989-1994.
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Wilke, Philip J., and David L. Weide
1976 *Background to Prehistory of the Yuha Desert Region*. Ballena Press Anthropological Papers No. 5. Menlo Park, California.
Wilke, Philip J., Meg McDonald, and Louis A. Payen
1986 Excavations at Indian Hill Rockshelter, Anza-Borrego Desert State Park, California 1984-1985. On file, California Department of Parks and Recreation, Cultural Resource Division, Sacramento.

Appendix A: Personnel Qualifications

PRINCIPAL INVESTIGATOR, HISTORY/ARCHITECTURAL HISTORY
Bai "Tom" Tang, M.A.

Education

1988-1993	Graduate Program in Public History/Historic Preservation, University of California, Riverside.
1987	M.A., American History, Yale University, New Haven, Connecticut.
1982	B.A., History, Northwestern University, Xi'an, China.
2000	"Introduction to Section 106 Review," presented by the Advisory Council on Historic Preservation and the University of Nevada, Reno.
1994	"Assessing the Significance of Historic Archaeological Sites," presented by the Historic Preservation Program, University of Nevada, Reno.

Professional Experience

2002-	Principal Investigator, CRM TECH, Riverside/Colton, California.
1993-2002	Project Historian/Architectural Historian, CRM TECH, Riverside, California.
1993-1997	Project Historian, Greenwood and Associates, Pacific Palisades, California.
1991-1993	Project Historian, Archaeological Research Unit, University of California, Riverside.
1990	Intern Researcher, California State Office of Historic Preservation, Sacramento.
1990-1992	Teaching Assistant, History of Modern World, University of California, Riverside.
1988-1993	Research Assistant, American Social History, University of California, Riverside.
1985-1988	Research Assistant, Modern Chinese History, Yale University.
1985-1986	Teaching Assistant, Modern Chinese History, Yale University.
1982-1985	Lecturer, History, Xi'an Foreign Languages Institute, Xi'an, China.

Cultural Resources Management Reports

Preliminary Analyses and Recommendations Regarding California's Cultural Resources Inventory System (with Special Reference to Condition 14 of NPS 1990 Program Review Report). California State Office of Historic Preservation working paper, Sacramento, September 1990.

Numerous cultural resources management reports with the Archaeological Research Unit, Greenwood and Associates, and CRM TECH, since October 1991.

PRINCIPAL INVESTIGATOR, ARCHAEOLOGY
Michael Hogan, Ph.D., RPA (Registered Professional Archaeologist)

Education

1991	Ph.D., Anthropology, University of California, Riverside.
1981	B.S., Anthropology, University of California, Riverside; with honors.
2025	"Introductory Sedimentology for Archaeology," SAA Online Semina by Ervan Garrison.
2021	"An Introduction to Geoarchaeology: How Understanding Basic Soils, Sediments, and Landforms Can Make You a Better Archaeologist," SAA Online Seminar.
2002	"Section 106—National Historic Preservation Act: Federal Law at the Local Level," UCLA Extension Course #888.
2002	"Recognizing Historic Artifacts," workshop by Richard Norwood, Historical Archaeologist.
2002	"Wending Your Way through the Regulatory Maze," symposium by the Association of Environmental Professionals.
1992	"Southern California Ceramics Workshop," presented by Jerry Schaefer.
1992	"Historic Artifact Workshop," presented by Anne Duffield-Stoll.

Professional Experience

2002-	Principal Investigator, CRM TECH, Riverside/Colton, California.
1999-2002	Project Archaeologist/Field Director, CRM TECH, Riverside, California.
1996-1998	Project Director and Ethnographer, Statistical Research, Inc., Redlands, California.
1992-1998	Assistant Research Anthropologist, University of California, Riverside.
1992-1995	Project Director, Archaeological Research Unit, University of California Riverside.
1991-1992	Crew Chief, Archaeological Research Unit, University of California Riverside.
1984-1998	Project Director, Field Director, Crew Chief, and Archaeological Technician for various southern California cultural resources management firms.

Cultural Resources Management Reports

Principal investigator for, author or co-author of, and contributor to numerous cultural resources management study reports since 1986.

Memberships

Society for American Archaeology; Society for California Archaeology; Pacific Coast Archaeological Society.

PROJECT ARCHAEOLOGIST/REPORT WRITER
Elizabeth L. Beckner, Ph.D.

Education

2024	Ph.D., Anthropology, University of California, Riverside.
2017	M.A., Anthropology, University of California, Riverside.
2016	B.A., Anthropology, University of California, Riverside.
2014	A.A., Anthropology, Chaffey College, Rancho Cucamonga, California.

Professional Experience

2025-	Project Archaeologist, CRM TECH, Colton, California.
2025-	Lecturer, California State University, San Bernardino.
2019-	Adjunct Instructor, Chaffey College, Rancho Cucamonga, California.
2019	Archaeologist, Dudek, Pasadena, California
2017-2019	Teaching Assistant, University of California, Riverside.
2018	Archaeologist, Proyecto Sacbé Cobá-Yaxuna (Sacbé Cobá-Yaxuna Project), Cobá, Quintana Roo, Mexico.
2016-2017	Field Assistant, Proyecto de Interacción Política del Centro de Yucatán (Political Interaction Project of Central Yucatan), Yaxuna, Yucatan, Mexico.
2015-2017	Information Officer, Eastern Information Center, Riverside, California.

Publication

2023 T.W. Stanton, Traci Ardren, Nicolas C. Barth, Juan C. Fernandez Diaz, Steph J. Miller, Karl A. Taube, Patrick Rohrer, Elizabeth Beckner, and Aline Magnoni: Roads, Temples, and the Community Boundaries of Cobá, Quintana Roo. In T.H. Guderjan and J.P. Mathews (eds.): *Construction of Maya Space: Causeways, Walls, and Open Areas from Ancient to Modern Times*; pp. 71-98. University of Arizona Press, Tucson.

PROJECT ARCHAEOLOGIST
Melissa A. Portilla, B.A.

Education

2023	A.A. (*cum laude*), Anthropology, Fullerton College.
2019	B.A., Ancient History: Classics, University of Hawaii, Manoa.

Professional Experience

2023-	Project Archaeologist, CRM TECH, Colton, California.
2023-2024	Project Archaeologist, Psomas, Pasadena, California.
2020	Collections Assistant, Museum of Us, San Diego, California.

PROJCT ARCHAEOLOGIST/FIELD DIRECTOR
Daniel Ballester, M.S., RPA (Registered Professional Archaeologist)

Education

2013	M.S., Geographic Information System (GIS), University of Redlands, California.
1998	B.A., Anthropology, California State University, San Bernardino.
1997	Archaeological Field School, University of Las Vegas and University of California, Riverside.
1994	University of Puerto Rico, Rio Piedras, Puerto Rico.
2021	An Introduction to Geoarchaeology: How Understanding Basic Soils, Sediments, and Landforms Can Make You a Better Archaeologist; Society for American Archaeology online seminar.
2007	Certificate in Geographic Information Systems (GIS), California State University, San Bernardino.
2002	Historic Archaeology Workshop; presented by Richard Norwood, Base Archaeologist, Edwards Air Force Base, at CRM TECH, Riverside, California.

Professional Experience

2002-	Field Director/GIS Specialist, CRM TECH, Riverside/Colton, California.
2011-2012	GIS Specialist for Caltrans District 8 Project, Garcia and Associates, San Anselmo, California.
2009-2010	Field Crew Chief, Garcia and Associates, San Anselmo, California.
2009-2010	Field Crew, ECorp, Redlands.
1999-2002	Project Archaeologist, CRM TECH, Riverside, California.
1998-1999	Field Crew, K.E.A. Environmental, San Diego, California.
1998	Field Crew, A.S.M. Affiliates, Encinitas, California.
1998	Field Crew, Archaeological Research Unit, University of California, Riverside.

Cultural Resources Management Reports

Field Director, co-author, and contributor to numerous cultural management reports since 2002.

Memberships

Society for American Archaeology; Society for California Archaeology.

PROJECT ARCHAEOLOGIST
Deirdre Encarnación, M.A.

Education

2003	M.A., Anthropology, San Diego State University, California.
2000	B.A., Anthropology, minor in Biology, with honors, San Diego State University, California.
2021	Certificate of Specialization, Kumeyaay Studies, Cuyamaca College, California.
2001	Archaeological Field School, San Diego State University.
2000	Archaeological Field School, San Diego State University.

Professional Experience

2016-	Archaeological Consultant, Friends of Maha'ulepu, Koloa, Hawai'i.
2004-	Project Archaeologist/Report Writer, CRM TECH, Riverside/Colton, California.
2001-2003	Part-time Lecturer, San Diego State University, California.
2001	Research Assistant for Dr. Lynn Gamble, San Diego State University.
2001	Archaeological Collection Catalog, San Diego State University Foundation.

Presentations

2023	"The Kumeyaay-Critical Awareness, Critical Activation," Salaam, San Diego College of Continuing Education.
2023	"A Look at the Three Wise Men and Their Global Celebrations," The Epiphany Project.
2022	"Voices: A Latina Advocate Shares about Life, Stereotypes, & Rising Above," Salaam online event.
2022	"The Original Beach Town: San Diego's Coastal Heritage," San Diego Archaeological Center Living Room Lecture.

Memberships

Society for California Archaeology; Society for Hawaiian Archaeology; California Native Plant Society.

Appendix B: California Historical Resources Inventory Record Forms

(33-001246, 1233-008410, 33-028591, 33-028593, and 33-028595)

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # 33-1246
HRI #
Trinomial CA-RIV-1246 Update
NRHP Status Code
Other Listings
Review Code _____ Reviewer _____ Date

RECEIVED

Page 1 of 3 *Resource Name or #: (Assigned by recorder)

P1. Other Identifier:

*P2. Location: X Not for Publication ___ Unrestricted

*a. County Riverside and (P2b and P2c or P2d. Attach a Location Map as necessary.)

*b. USGS 7.5' quad *Seven Palms Valley* Date 1955 (Photorevised 1978)

c. Address Two Bunch Palms Road, between Verbena and Miracle Hill Road City Desert Hot Springs ZIP

d. UTM (Give more than one for large and/or linear resources) Zone 11S 0547487 mE / 3756598 mN
11S 0547471 3756600

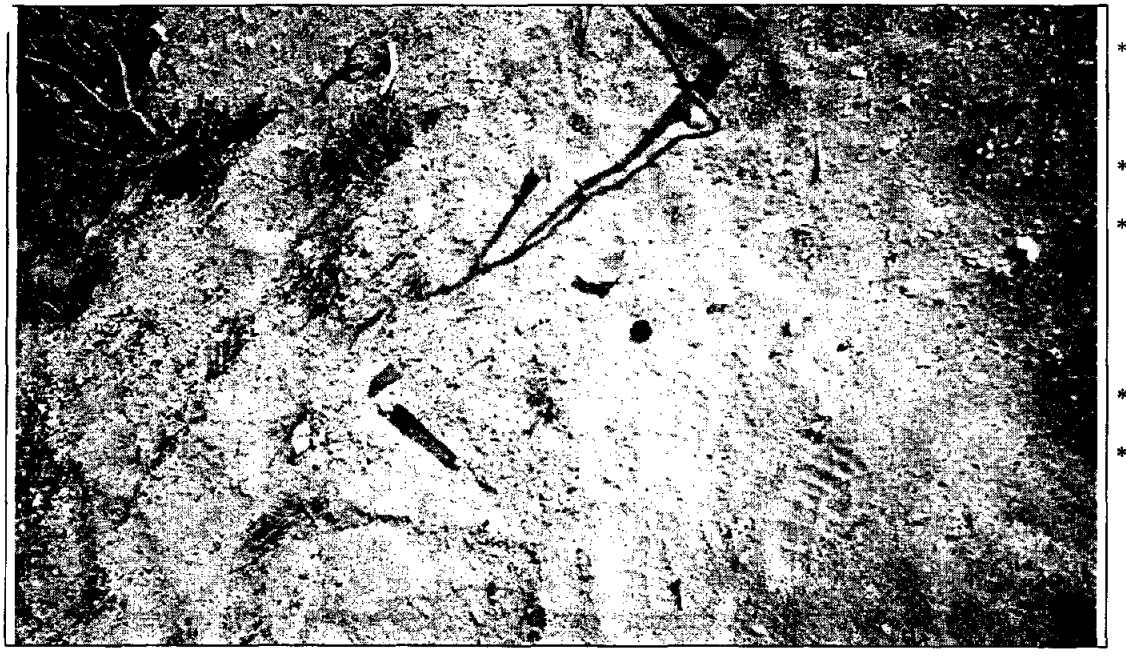
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, etc., as appropriate) South side of Two Bunch Palms Rd, Northwest side of Miracle Hill, near private property line, east of Two Bunch Palms Spa. Site "B" is 46 meters southwest from fire hydrant next to street and 24.5 meters west from the "Private Property No Trespassing" sign. Site is eroding out of dunes.

*P3a. Description: (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries) Four pottery shard scatters/concentrations, 9 pieces, one section of pot lip, another with distinct finger indentations from the maker.

*P3b. Resource Attributes: (List attributes and codes) AP3.Ceramic Scatter.

*P4. Resources Present: ___ Building ___ Structure ___ Object X Site ___ District ___ Element of District ___ Other (Isolates, etc.):

P5a. Photo or drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, data, accession #)

*P6. Date Constructed/Age and Sources:
___ Historic X Prehistoric ___ Both

*P7. Owner and Address:

*P8. Recorded by:

Heidi Sellers
LSA Associates, Inc.
1650 Spruce St, 5th Floor
Riverside, CA 92507

*P9. Date recorded: 10/7/04

*P10. Survey Type: (Describe)
Construction monitoring

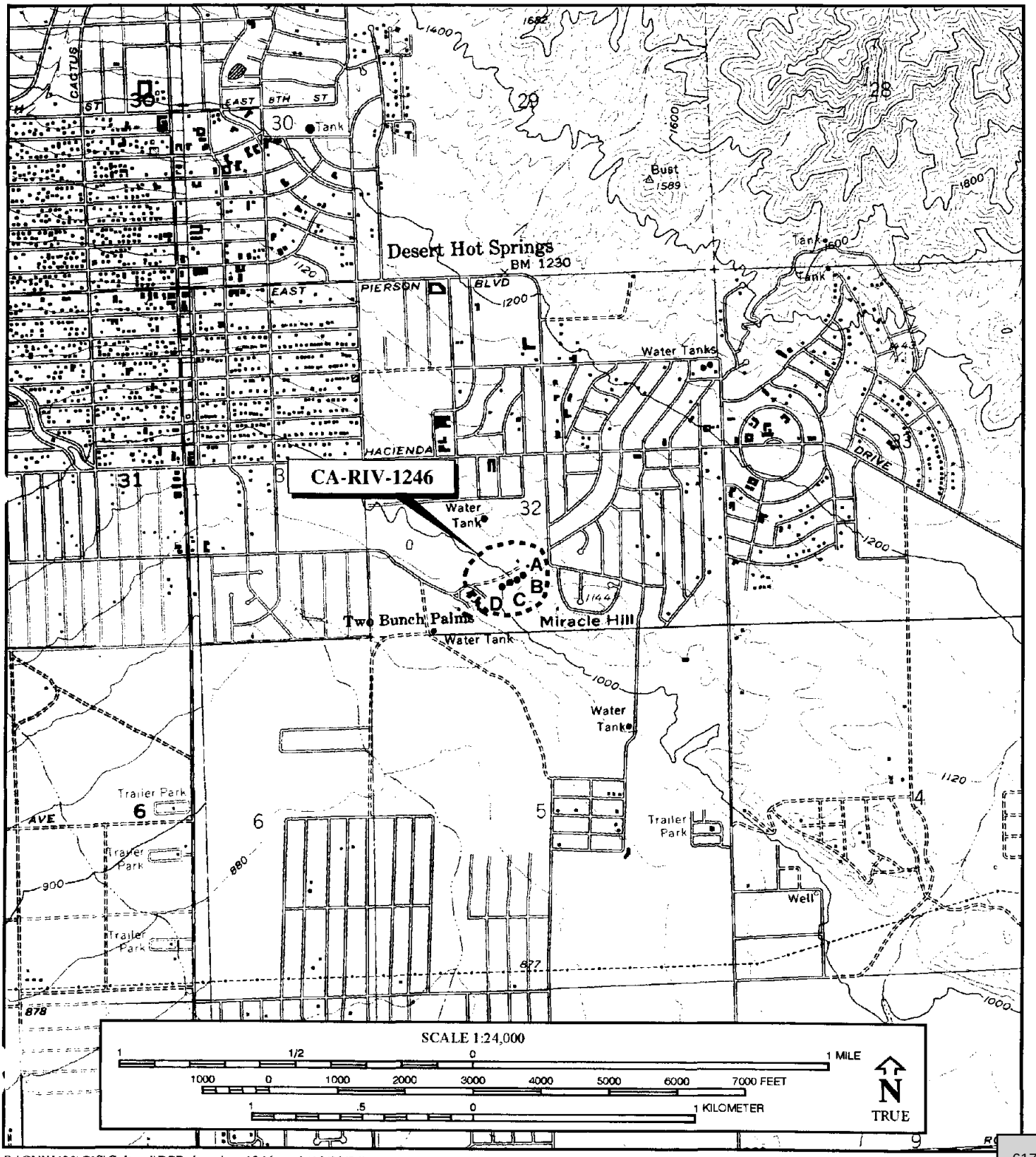
*P11. Report citation: (Cite survey report and other sources or enter "none.")

Attachments: ___ None X Location Map X Sketch Map ___ Continuation Sheet ___ Building, Structure, and Object Record
___ Archaeological Record ___ District Record ___ Linear Feature Record ___ Milling Station Record
___ Rock Art Record ___ Artifact Record ___ Photograph Record ___ Other (list):

[redacted]

Page 2 of 3 *Resource Name or # (Assigned by recorder) CA-RIV-1246 Update

*Map Name: USGS 7.5' Quad, Seven Palms Valley and Desert Hot Springs, California *Scale: 1:24000 *Date of Map: Photoinspected 1978



R:\CHW430\GIS\Cultural\DPR_location_1246.mxd (10/29/04)

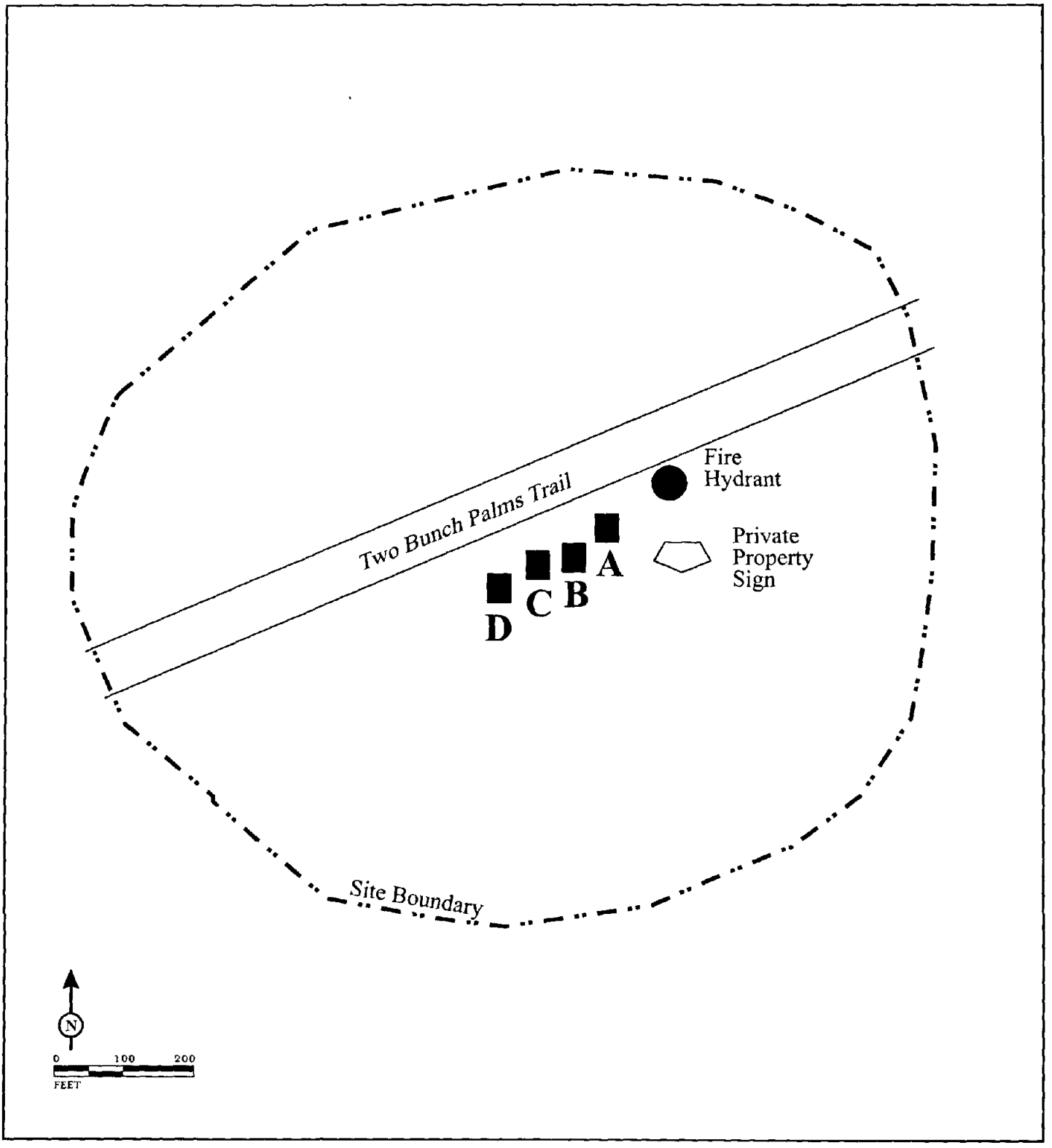
* Required Informa

State of California – The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
SKETCH MAP

Primary # _____
Trinomial _____

Page 3 of 3 *Resource Name or # (Assigned by recorder) CA-RIV-1246 Update

Drawn By: Heidi Sellers Date: 10/07/04



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DPR 523J (1/95) *Required Information

Item 16.

ARCHAEOLOGICAL SITE SURVEY RECORD

UTM: Zone 11-3756400/547600

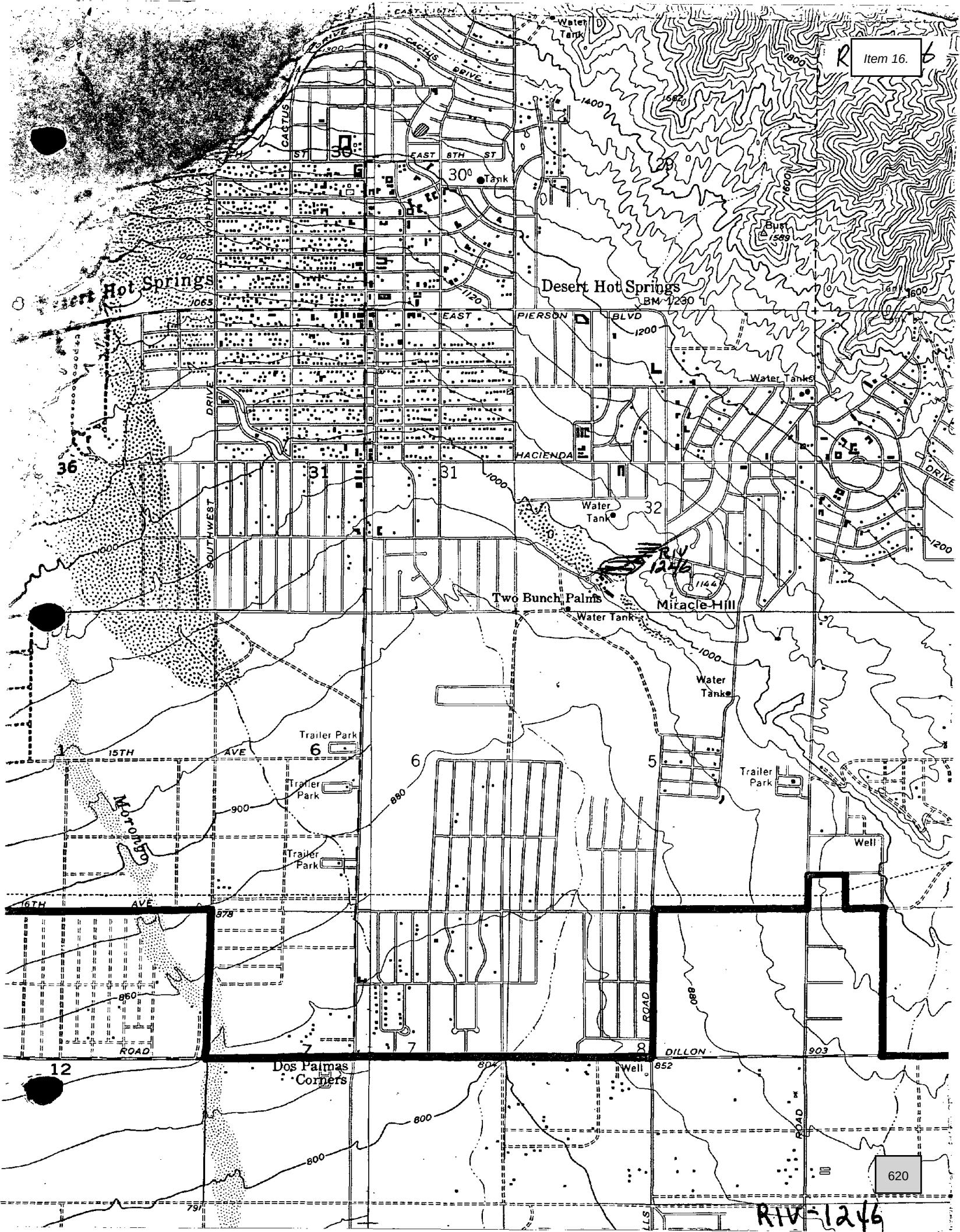
SITE No. Riv 1246

1. Previous Site Designation Two Bunch Palms 2. Temporary Field No. SBCM-171
3. USGS Quad ~~Thousand Palms~~ Seven Palms Valley XX 7.5 ~~15'~~ Year 1958
5. Twp. 2S Range 5E ; N 1/2 ¼ of SE 1/4SW ¼ of Sec. 32
6. Location Both sides of the road leading to Two Bunch Palms from Desert Hot Springs on the northwest side of Miracle Hill
7. Contour 1040 ± ft. 8. Owner & Address
9. Prehistoric XX Ethnographic XX Historic 10. Site Description Late Desert Cahuilla, in blowout dunes along wash area
11. Area 750 x 500 meters, square meters. 12. Depth of Midden surface/unknown
13. Site Vegetation mesquite Surrounding Vegetation same
14. Location & Proximity of Water intermittent stream, hot springs
15. Site Soil sandy Surrounding Vegetation
16. Previous Excavation none
17. Site Disturbance due to sandblowout and wash water, road through site
18. Destruction Possibility due to ecological conditions and building in the area
19. Features fire cracked rocks
20. Burials possible
21. Artifacts pottery, TCB point, bone material (some burnt), metate fragment, mano, flakes UTM 547380mE 3756440mN
22. Faunal Remains yes 547600mE 3756280mN
547800mE 3756420mN
23. Comments site is eroding out of dunes 547600mE 3756580mN
CENTER 547600mE 3756420mN
24. Accession No. 171 25. Sketch Map by where
26. Date Recorded 10/1/77 27. Recorded by G. A. Smith
28. Photo Roll No. Frame No. Film Type(s) Taken By
29. % Destroyed 10 How road Test Excavated % if known
30. National Register Status; Listed Potential No Determination XX
Nominated Ineligible
31. State Historical Landmark (No.) Point of Historical Interest

SPECIAL ATTRIBUTES (Place and X in only those spaces which pertain to the site)

32. Midden/Habitation Debris XX, Lithic and/or Ceramic Scatter XX
33. Bedrock Mortars/Milling Surfaces Petroglyphs/Pictographs, Stone Features
34. Burials, Caches Hearths/Roasting Pits XX Housepits Structure Remains
35. Underwater Open Air XX Rockshelter Cave Quarry Trails

REMARKS


Item 16.
Desert Hot Springs
Desert Hot Springs
BM 1230
EAST 8TH ST
CACTUS DRIVE
EAST PIERSON BLVD
HACIENDA
SOUTHWEST DRIVE
NORTHWEST
Water Tank
Water Tanks
Bust
Two Bunch Palms
Miracle Hill
Trailer Park
15TH AVE
16TH AVE
Moronga
Well
DILLON ROAD
Dos Palmas Corners
RIV 1246
RIV-1246

State of California--The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
PRIMARY RECORD

Primary # 33-008410 (update)
HRI #
Trinomial CA-RIV-013015
NRHP Status Code 6Z
Other Listings
Review Code Reviewer Date

 Resource Name or # Dillon Highway (MWD's Garnet-to-Indio trunk road)

P1. Other Identifier: Æ-1376-T56-1

P2. Location: a. County Riverside ☐ Not for Publication ☒ Unrestricted

b. USGS 7.5' Quadrangles (from west to east)

Desert Hot Springs, Calif., 1:24,000 scale (1955 photo-revised 1972);
Seven Palms Valley, Calif., 1:24,000 scale (1958 photo-revised 1972);
Thousand Palms, Calif., 1:62,500 scale (1958);
Myoma, Calif., 1:24,000 scale (1958 photo-revised 1972);
West Berdoo Canyon, Calif., 1:24,000 scale (1988);
Indio, Calif., 1:24,000 scale (1956 photo-revised 1972)

Crosses portions of Township 3 South, Ranges 4, 5, 6, and 7 East; Township 4 South, Ranges 7 and 8 East; and Township 5 South, Range 8 East, San Bernardino Baseline & Meridian

c. Address Dillon Road City Extends from North Palm Springs east to Coachella Zip various

d. UTM: Zone 11;

West end of Dillon Road (intersection of Indian Avenue): 542,031 **mE** / 3,753,914 **mN**
Southeast end (intersection of State Route 111): 574,923 **mE** / 3,729,223 **mN**

UTM Derivation: ☐ USGS Quad ☒ GPS; Google Earth NAD 1983

e. **Other Locational Data:** The historic-period segment of Dillon Road traverses 31.2 miles beginning at the intersection of North Indian Canyon Avenue in North Palm Springs and extending east to State Route 111 in Coachella. Dillon Highway included this route as well as North Indian Canyon Avenue to U.S. 60/70/99 at Garnet (see attached maps).

P3a. **Description:** Dillon Road originated as one of Metropolitan Water District's (MWD) numerous trunk roads which were built to support construction of the Colorado River Aqueduct (CRA) in the 1930s. The Garnet-to-Indio trunk road, as this segment was called, was built in 1933 (MWD 1939:141–145). It travelled 35.9 miles across the north side of the Coachella Valley to provide access to as many as eight or nine branch roads which penetrate into the Little San Bernardino Mountains to the north (see maps, figures 6 and 7). These roads led the way to MWD work camps set up along the Coachella Tunnels alignment. The 35.9 mile-long Garnet-to-Indio trunk road began at State Route 111 south of Indio and headed north, then northwest across the valley north of Indio Hills; ultimately converging with U.S. Highway 60/70/99 at the community of Garnet. This route today comprises Dillon Road between State Route 111 in Coachella to the intersection of North Indian Canyon Avenue, as well as North Indian Canyon Avenue to U.S. 60/70/99 at Garnet.

The MWD trunk and branch roads serving the 1930s CRA construction were uniformly designed and built as a 20-ft-wide oil cake pavement having a thickness of three inches. On both sides of the pavement, shoulders extended 2 to 6 ft, flanked by drainage ditches. The entire roadway including shoulders and ditches measured a minimum of 24 ft wide. By 1938, MWD had completed construction of the Coachella Tunnels and deeded their Garnet-to-Indio trunk road to the County of Riverside. The County designated the road as "Dillon Highway", named after County Supervisor Robert Emmet Dillon. Soon after, Indian Avenue was extended north from Palm Springs to intersect U.S. 60/70/99 and join Dillon Highway (USGS 1940). That segment of Dillon Highway was renamed Indian Avenue, and Dillon Highway was renamed Dillon Road. At the southeast end of Dillon Road, an S-shaped curve was straightened by 1972 (USGS 1972). In more recent decades, a grade separation was built to carry Dillon Road over SR 111 and the Union Pacific Railroad tracks at Avenue 48 in Coachella. A grade separation also exists in Coachella to carry State Route 86 over Dillon Road.

As mentioned above, MWD's Garnet-to-Indio trunk road was built to support construction of the CRA in the 1930s. Later, Dillon Highway supported the establishment of several small desert communities during the 1940s and 1950s, such as Indio Hills, Sky Valley, Desert Edge, and North Palm Springs. The MWD's 20-ft-wide Garnet-to-Indio trunk road no longer exists as it was constructed, other than its alignment. As a County-maintained road since 1938, the MWD trunk road was replaced with an asphalt-concrete paved, two-lane striped road. At present, Dillon Road is

RECEIVED IN
APR 19 2016
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State of California--The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
PRIMARY RECORD

Primary # 33-008410 (update)
HRI #
Trinomial **CA-RIV-013015**
NRHP Status Code 6Z

 Resource Name or # Dillon Highway (MWD's Garnet-to-Indio trunk road)

P3a. Description (continued):

two-lane, 30 ft wide, asphalt-concrete paved road with dirt shoulders that measure approximately eight ft wide. The pavement width is consistent for most of its length, but widens to as much as 95 ft where it intersects Interstate 10, to accommodate a center median and four lanes of traffic. Indian Canyon Drive, previously known as Indian Avenue, and formerly a segment of Dillon Highway and MWD's Garnet-to-Indio trunk road, is also a two-lane, 30 ft wide, asphalt-concrete paved road. It is flanked by six-ft-wide paved shoulders and bordered by 10-ft-wide dirt shoulders.

The entire length of Dillon Road and Indian Canyon Drive were surveyed at a reconnaissance level by Applied EarthWorks architectural historian Josh Smallwood, M.A., on August 5, 2015. Smallwood drove the entire length of the route to document its physical appearance, design, construction, and current condition. Photographs of segments of Dillon Road were taken to document its setting and current condition (see Figures 1 through 5 on the attached Continuation Sheets). Smallwood pursued historical background research on the basis of historical US Army and USGS topographical maps of the region dating to the 1940s and 1950s, and the MWD's *History and First Annual Report for the Period Ending June 30, 1938*, in the collection of the author.

P3b. Resource Attributes: HP37. Highway

P4. Resources Present: □ Building ☒ Structure □ Object □ Site □ District □ Element of District □ Other:

P5a. Photograph or Drawing See attached Continuation sheets for photographs

P5b. Description of Photo: Photographs taken on August 5, 2015.

P6. Date Constructed/Age of Sources: □ Prehistoric ☒ Historic □ Both

P7. Owner and Address: Riverside County Transportation Department

P8. Recorded by: : Josh Smallwood, Applied EarthWorks, Inc., 3550 E. Florida Avenue, Suite H, Hemet, CA 92544

P9. Date Recorded: August 5, 2015

P10. Survey Type: Reconnaissance level survey for Section 106 and CEQA compliance

P11. Report Citation: Josh Smallwood (2015): Phase I Cultural Resource Assessment of the Dillon Road Transmission Pipeline Replacement Phase 2 Project, Riverside County, California. Applied EarthWorks, Inc., Hemet, CA.

Attachments: □ None ☒ Location Map ☒ Sketch Map ☒ Continuation Sheet ☒ Building, Structure, and Object Record □ Archaeological Record □ District Record □ Linear Feature Record □ Milling Station Record □ Rock Art Record □ Artifact Record □ Photograph Record Other:

State of California--The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
BUILDING, STRUCTURE, OBJECT RECORD

Primary # 33-008410 (update)
HRI #
CA-RIV-013015

NRHP Status Code 6Z
Resource Name or # Dillon Highway (MWD's Garnet-to-Indio trunk road)

B1. Historic Name: Dillon Highway; MWD's Garnet-to-Indio trunk road
B2. Common Name: Dillon Road
B3. Original Use: MWD's Garnet-to-Indio trunk road built to support construction of the Colorado River Aqueduct in the 1930s
B4. Present Use: local route; alternative route between the towns of Coachella and North Palm Springs

B5. Architectural Style: The vast majority of the road is a 30-ft-wide, two-lane asphalt-concrete paved road of standard construction.

B6. Construction History: Dillon Road originated as one of MWD's numerous trunk roads which were built to support construction of the CRA in the 1930s. The Garnet-to-Indio trunk road, as this segment was called, was built in 1933 (MWD 1939:141–145). By 1938, MWD had completed construction of the Coachella Tunnels and deeded their Garnet-to-Indio trunk road to the County of Riverside. The County designated the road as "Dillon Highway", named after County Supervisor Robert Emmet Dillon. Soon after, Indian Avenue was extended north from Palm Springs to intersect U.S. 60/70/99 and join Dillon Highway (USGS 1940). That segment of Dillon Highway was renamed Indian Avenue, and Dillon Highway was renamed Dillon Road. At the southeast end of Dillon Road, an S-shaped curve was straightened by 1972 (USGS 1972). In more recent decades, a grade separation was built to carry Dillon Road over SR 111 and the Union Pacific Railroad tracks at Avenue 48 in Coachella. A grade separation to carry State Route 86 over Dillon Road was also built in recent decades.

B7. Moved? ☒ No ☐ Yes ☐ Unknown **Date:** **Original Location:**

B8. Related Features: As many as eight or nine branch roads were constructed by MWD to penetrate into the Little San Bernardino Mountains to the north. These roads led the way to MWD work camps set up along the Coachella Tunnels alignment.

B9a. Architect: MWD b. Builder: MWD; and later, Riverside County Transportation Department

B10. Significance: Theme Development of local roads during the early and middle twentieth century
Area Coachella Valley, Riverside County
Period of Significance None
Property Type highway/local road **Applicable Criteria** None

The results of this investigation conclude that Dillon Highway/Dillon Road does not appear to meet any of the criteria of the NRHP or CRHR. Jim Brock of Archaeological Advisory Group first recorded a segment of Dillon Road at the intersection of Palm Drive near Desert Hot Springs (Brock 1998). Brock's record does not provide a formal evaluation of its historical significance; however, it is stated that "the point considered in our study (intersection of Palm Drive and Dillon Road) has been heavily modified by improvements to the intersection" (Brock 1998:2). Brock's report was generated for Section 106 review by Caltrans District 8 as part of the Palm Drive Widening Project. The FHWA (Federal Highway Administration) and DOE (Department of Energy) both determined that segment of Dillon Road (33-008410) was not eligible for the NRHP or CRHR on February 4, 1999 (OHP 2007). The current study, however, considers the historical significance of Dillon Road as part of former Dillon Highway, and MWD's Garnet-to-Indio trunk road, which served to provide access across the northern Coachella Valley region to the various branch roads for construction along the Coachella Tunnels portion of the CRA during the 1930s.

Historical research has established that Dillon Road is the descendent of Dillon Highway, and its alignment originated in 1933 as one of MWD's trunk roads. It served to provide access across the northern Coachella Valley region to the various branch roads for construction along the Coachella Tunnels portion of the CRA. Thus, it is directly associated with the construction of the CRA. The CRA has previously been evaluated for historical significance and found eligible for the NRHP and CRHR, as explained below.

B10. Significance (continued):

Colorado River Aqueduct

The Colorado River Aqueduct (CRA) is a water conveyance system operated by the Metropolitan Water District of Southern California. Construction began in 1933 and water first flowed through the system in 1941. The CRA system carries Colorado River water, impounded at Lake Havasu on the California-Arizona border, through, over, and across mountains and desert to the coastal and inland valleys of southern California. The CRA stretches 242 miles from Parker Dam to Lake Mathews (formerly known as Cajalco Reservoir). Water from Lake Mathews was then distributed to local water districts in the Los Angeles Basin and lower Santa Ana River drainage. The system is composed of two reservoirs, five pumping plants, 63 miles of canals, 92 miles of tunnels, and 84 miles of buried conduit and siphons.

The project involved ingenious engineering solutions and newly introduced equipment at the time of its construction. It also employed over 35,000 people during an eight-year span of construction, and as many as 10,000 people at one time, making it southern California's single largest work opportunity during the Great Depression (Gruen 1998). Due to its many engineering merits, the CRA has been named a National Historic Civil Engineering Landmark by the American Society of Civil Engineers. Today, it is one of the principal water supplies for southern California.

In building the CRA, Metropolitan chose an aqueduct route that required four pump lift stations. A fifth was added when the Granite Mountains tunnel could not be easily holed through. Each station was built with three pumps and the capability for expansion to nine pumps (Gruen 1998). Large amounts of electricity were required to operate the pumps, which necessitated construction of transmission lines from Hoover Dam to the pump stations.

Construction of the transmission lines to power the system began in 1934 with the grading of dirt roads to provide access to the tower locations. The line is constructed of single H-frame steel towers with cross supports. The contractor for construction of the transmission lines was Fritz Ziebarth of Long Beach. He established a construction camp at Camino where the steel towers were assembled using steel made in San Francisco. The steel was sent by rail to Goffs on the Santa Fe Railroad line and then by truck to Camino. Reinforced concrete footings were poured at each tower location and then the towers were erected on the footings. Erection of the towers began in February 1936 and the line from Hoover Dam to Iron Mountain Pump Lift was completed by the end of 1936. Construction of the line from Iron Mountain Pump Lift to Hayfield Pump Lift was completed in July, 1937 (Gruen 1998).

Documentation of the CRA as a cultural resource was prepared for the Historic American Engineering Record (HAER) in 1998 (Gruen 1998):

> The Colorado River Aqueduct pumps water through, over, and across mountains and desert in a 242-mile long march to the coastal plain of southern California. When completed, it was one of the longest water conveyance facilities in the world. The aqueduct includes powerlines, tunnels, siphons, covered conduits, open canals, dams, reservoirs, and five pumping plants, involving ingenious engineering solutions and newly introduced construction equipment. The project also employed over 35,000 people during its eight-year span, and as many as 10,000 at one time, making it southern California's single largest work opportunity during the Great Depression. In 1995 the Colorado River Aqueduct was named a National Historic Civil Engineering Landmark by the American Society of Civil Engineers. Today it is the major water supply for urban and suburban southern California [Gruen 1998].

Based on the HAER significance statement, the CRA is clearly eligible for the NRHP. Nonetheless, the CRA system, as a whole, has not been formally evaluated for NRHP listing or eligibility. An evaluation of the Casa Loma Siphon/Canal, originating east of the San Jacinto Tunnel and a component of the CRA system near San Jacinto, California, resulted in those elements of the CRA being considered eligible for the NRHP under Criterion A (association with important historical events) and Criterion C (distinctive architectural or engineering characteristics). Under Criterion A, the Casa Loma Siphon/Canal were evaluated as eligible because its construction

B10. Significance (continued):

"was a driving and enabling force for the economic development of southern California" during the Great Depression (Hamilton and Beedle 2005:5). Under Criterion C the CRA was evaluated as eligible because it is "a marvel of civil engineering as outlined by Gruen (1998)" (Hamilton and Beedle 2005:5). Although only these two components of the entire CRA system were formally evaluated at the time, the SHPO concurred that the Casa Loma Siphon and Canal would be eligible as contributing elements of the system should the system be formally evaluated for NRHP eligibility in the future (Hamilton and Beedle 2005:5).

Based on the HAER documentation (Gruen 1998), the Colorado River Aqueduct system, including numerous engineering features such as dams, reservoirs, pumping plants, tunnels, canals, conduits, siphons, and transmission lines, is recommended eligible for the NRHP as an important water conveyance system supplying southern California (Criterion A), and for its engineering merits (Criterion C).

Based on a study by Smallwood et al. (2012:57–58), similar branch roads of the CRA exist in the Chuckwalla Valley and Rice Valley to the east of Coachella Valley. Rice Road/State Route 177, and the eastern portion of State Route 62, were constructed and paved between Desert Center and Parker, Arizona in 1933. For several years this route was simply known as the Aqueduct Road, or Parker Dam Highway, and was built in support of the construction of the CRA in the 1930s. While Rice Road/SR 177 was originally constructed as an access road for the purpose of aqueduct construction, Smallwood et al. argued that its association does not appear to be an integral part of the historical CRA system, or contribute to its eligibility for the NRHP under Criterion A and C. Rice Road/SR 177 and SR 62 are not recognized as one of the important engineering features in the HAER documentation (Gruen 1998), nor is the former route directly associated with water supply and conveyance. Therefore, Smallwood et al. (2012) concluded that Rice Road/SR 177/SR 62 do not appear to be contributors to the significance of the CRA system, and recommended that Rice Road/SR 177 is not eligible for the NRHP or CRHR for this association (Smallwood et al. 2012:57–58, 71). The Bureau of Land Management (BLM) and State Historic Preservation Officer (SHPO) concurred on this finding in 2012.

Similarly, the MWD's Garnet-to-Indio trunk road was ancillary to the engineering and construction of the CRA, and its association does not appear to be an integral part of the historical CRA system, or contribute to its eligibility for the NRHP under Criterion A and C. The Garnet-to-Indio trunk road is not one of the important engineering features of the CRA, nor is the former route directly associated with water supply and conveyance. Therefore, Dillon Road does not appear to be a contributor to the significance of the CRA system, and is recommended *not* eligible for the NRHP Criterion A and C, or CRHR Criterion 1 and 3, for this association.

While Dillon Highway/Dillon Road did provide a route through the rugged terrain north of Indio Hills, which opened up the area to residential development, that association is also ancillary to the formation of towns and communities, as every road across the Coachella Valley and Riverside County is responsible for the further development of the town, community, or neighborhood it leads to. Dillon Highway/Dillon Road never achieved any recognition as one of the more important alignments or thoroughfares within the history of the Coachella Valley or Riverside County region. Rather, it served as a local thoroughfare across the north side of the Indio Hills, or at best, as a secondary route between the Desert Hot Springs area and Coachella, if U.S. 60/70/99 or State Route 111 were not in favor. Thus, Dillon Highway/Dillon Road does not appear to meet NRHP Criterion A or CRHR Criterion 1.

While Dillon Road was named after Riverside County Supervisor Robert Emmet Dillon, the namesake is purely because of his career-contribution to the development of roads in the Coachella Valley. In fact, Dillon was in office at the time that the MWD's trunk road was deeded to the county. However, Dillon Road has no known direct association with the productive life of this individual, or any other important historical figures. Therefore, Dillon Road does not appear to meet NRHP Criterion B/CRHR Criterion 2.

B10. Significance (continued):

Dillon Highway/Dillon Road today is completely modern in its appearance, and of standard design and construction. It does not exhibit any of the characteristics of the 1930s CRA construction road; it is merely a semi-rural modern paved road spanning between Coachella and North Palm Springs, which follows the same alignment as an older travelled route. It does not exhibit any architectural or engineering merits that would deem it significant under NRHP Criterion C or CRHR Criterion 3.

Furthermore, Dillon Highway/Dillon Road does not have the potential to yield any important archaeological data about early or middle twentieth century road-building techniques, or other subjects of local, state, or national history that is not already known or that cannot be gained from traditional avenues of research. As such, Dillon Highway/Dillon Road does not appear to meet NRHP Criterion D or CRHR Criterion 4.

In summary, Dillon Highway/Dillon Road does not appear to meet any of the criteria of the NRHP or CRHR.

B11. Additional Resource Attributes: (List attributes and codes) None

B12. References:

Brock, James
1998 Department of Parks & Recreation recording forms, 33-008410. On file, Eastern Information Center, University of California, Riverside.

Gruen, J. Phillip
1998 Colorado River Aqueduct Historical Report. In *Colorado River Aqueduct Recording Project*. Published version of Historic American Engineering Record CA 226. Groucho Publications, Los Angeles, California.

Hamilton, M. C., and P. Beedle
2005 Department of Parks & Recreation (DPR) 523 recording form, P33-11265 (CA-RIV-6726H), Casa Loma Siphon, Barrel 1. On file, Eastern Information Center, University of California, Riverside.

MWD (Metropolitan Water District)
1939 *History and First Annual Report for the Period Ending June 30, 1938*. F.E. Weymouth, General Managaer and Chief Engineer. Compiled and edited by Chas. A. Bissell. Metropolitan Water District of Southern California, Los Angeles.

OHP (Office of Historic Preservation)
2007 Directory of Properties in the Historic Property Data File for Riverside County, page 21. On file, Eastern Information Center, University of California, Riverside.

Smallwood, Josh, Susan K. Goldberg, Victoria Smith, and M. Colleen Hamilton
2012 Assessment of Indirect and Cumulative Effects to Historic Properties for Desert Harvest Solar Farm Project, Desert Center Vicinity, Riverside County, California. Submitted to Bureau of Land Management. On file, Eastern Information Center, University of California, Riverside.

B12. References (continued):

U.S. Army (Army Corps of Engineers)

1940 Palm Springs, Calif. 15-minute topographic quadrangle (1:62,500), aerial photographs taken 1940. Road data 1943.

1941 Coachella, Calif. 15-minute topographic quadrangle (1:62,500), aerial photographs taken 1941. Road data 1943.

1941 Edom, Calif. 15-minute topographic quadrangle (1:62,500), aerial photographs taken 1941. Road data 1943.

1944 Pinyon Well, Calif. 15-minute topographic quadrangle (1:62,500), aerial photographs taken 1941. Road data 1943.

USGS (U.S. Geological Survey)

1956 Coachella, Calif. 15-minute topographic quadrangle (1:62,500), aerial photographs taken 1952 and 1953. Compiled in 1960 from 1:24,000 scale maps surveyed 1955–1956.

1957 Palm Springs, Calif. 15-minute topographic quadrangle (1:62,500), aerial photographs taken 1951, 1954, 1955, and 1956; north half field check 1955 and south half field check 1957.

1958 Lost Horse Mtn, Calif. 15-minute topographic quadrangle (1:62,500), aerial photographs taken 1956; field check 1958.

1958 Thousand Palms, Calif. 15-minute topographic quadrangle (1:62,500), aerial photographs taken 1951 and 1956; field check 1958.

B13. Remarks:

B14. Evaluator: Josh Smallwood, M.A., RPA
Applied EarthWorks, Inc.
3550 E. Florida Avenue, Suite I,
Hemet, CA 92544

Date of Evaluation: August 14, 2015

State of California--The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
CONTINUATION SHEET

Primary # 33-008410 (update)
HRI #
Trinomial **CA-RIV-013015**

Page 8 of 25 Resource Name or # Dillon Highway (MWD's Garnet-to-Indio trunk road)

Recorded by: Josh Smallwood Date August 5, 2015 ☒ Continuation ☐ Update



Figure 1. A segment of Dillon Road heading northwest from Happy Valley Drive in the Indio Hills community (view to the northwest; photograph taken August 5, 2015).

State of California--The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
CONTINUATION SHEET

Primary # 33-008410 (update)
HRI #
Trinomial **CA-RIV-013015**

 Resource Name or # Dillon Highway (MWD's Garnet-to-Indio trunk road)

Recorded by: Josh Smallwood **Date** August 5, 2015 ☒ **Continuation** ☐ **Update**



Figure 2. A segment of Dillon Road heading northwest toward 28th Avenue in the Indio Hills community (view to the northwest; photograph taken August 5, 2015).

State of California--The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
CONTINUATION SHEET

Primary # 33-008410 (update)
HRI #
Trinomial **CA-RIV-013015**

 Resource Name or # Dillon Highway (MWD's Garnet-to-Indio trunk road)

Recorded by: Josh Smallwood **Date** August 5, 2015 ☒ **Continuation** ☐ **Update**



Figure 3. A segment of Dillon Road heading northwest toward the community of Sky Valley (view to the northwest; photograph taken August 5, 2015).

State of California--The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
CONTINUATION SHEET

Primary # 33-008410 (update)
HRI #
Trinomial **CA-RIV-013015**

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Recorded by: Josh Smallwood Date August 5, 2015 ☒ Continuation ☐ Update



Figure 4. Dillon Road as it heads west through the community of Desert Edge (view to the west; photograph taken August 5, 2015).

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DEPARTMENT OF PARKS AND RECREATION
CONTINUATION SHEET

Primary # 33-008410 (update)
HRI #
Trinomial **CA-RIV-013015**

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Recorded by: Josh Smallwood Date August 5, 2015 ☒ Continuation ☐ Update



Figure 5. Intersection of Dillon Road and Bubbling Wells Road in Desert Hot Springs (view to the west; photograph taken August 5, 2015).

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Primary # 33-008410 (update)
HRI #
Trinomial **CA-RIV-013015**

Page 13 of 25 Resource Name or # Dillon Highway (MWD's Garnet-to-Indio trunk road)

Recorded by: Josh Smallwood Date August 5, 2015 ☒ Continuation ☐ Update

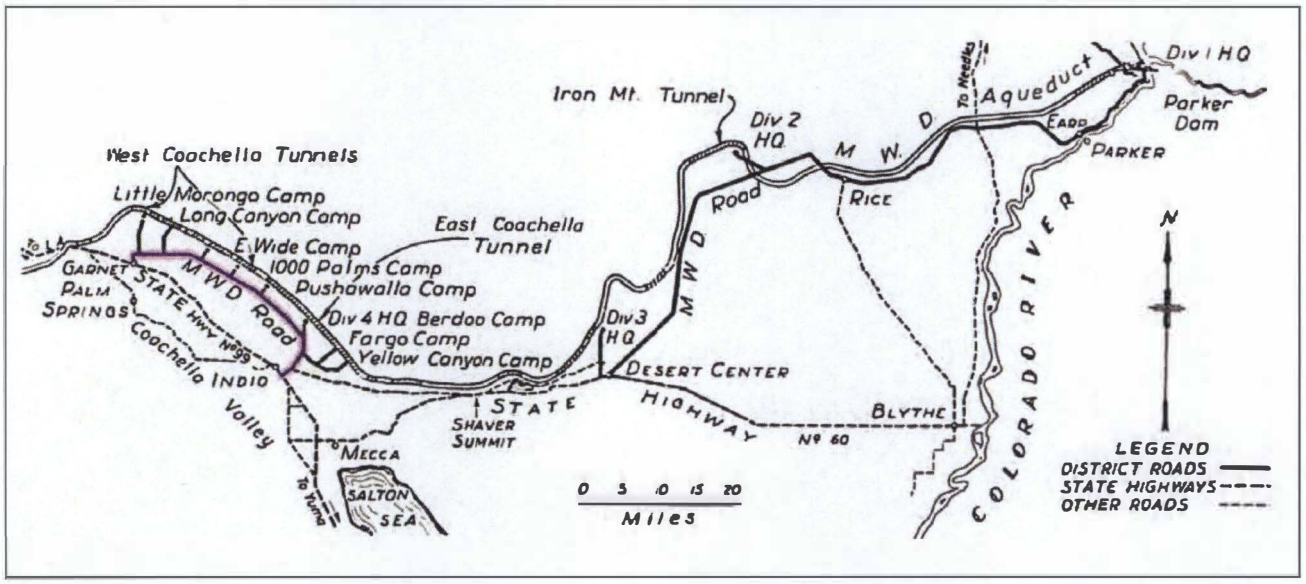

Figure 6. An MWD map of the CRA construction roads, circa 1938. The "MWD Road" depicted in purple between Garnet and Indio ultimately became the same route for Dillon Highway/Dillon Road once MWD deeded the road to the County of Riverside (MWD 1939:142).

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CONTINUATION SHEET

Primary # 33-008410 (update)
HRI #
Trinomial **CA-RIV-013015**

Page 14 of 25 Resource Name or # Dillon Highway (MWD's Garnet-to-Indio trunk road)

Recorded by: Josh Smallwood Date August 5, 2015 ☒ Continuation ☐ Update



Figure 7. MWD map and profile of the CRA, from *History and First Annual Report for the Period Ending June 30, 1938* (MWD 1939:fold-out map in back of book).

State of California —The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
CONTINUATION SHEET

Primary # 33-008410 (upd
HRI#
Trinomial

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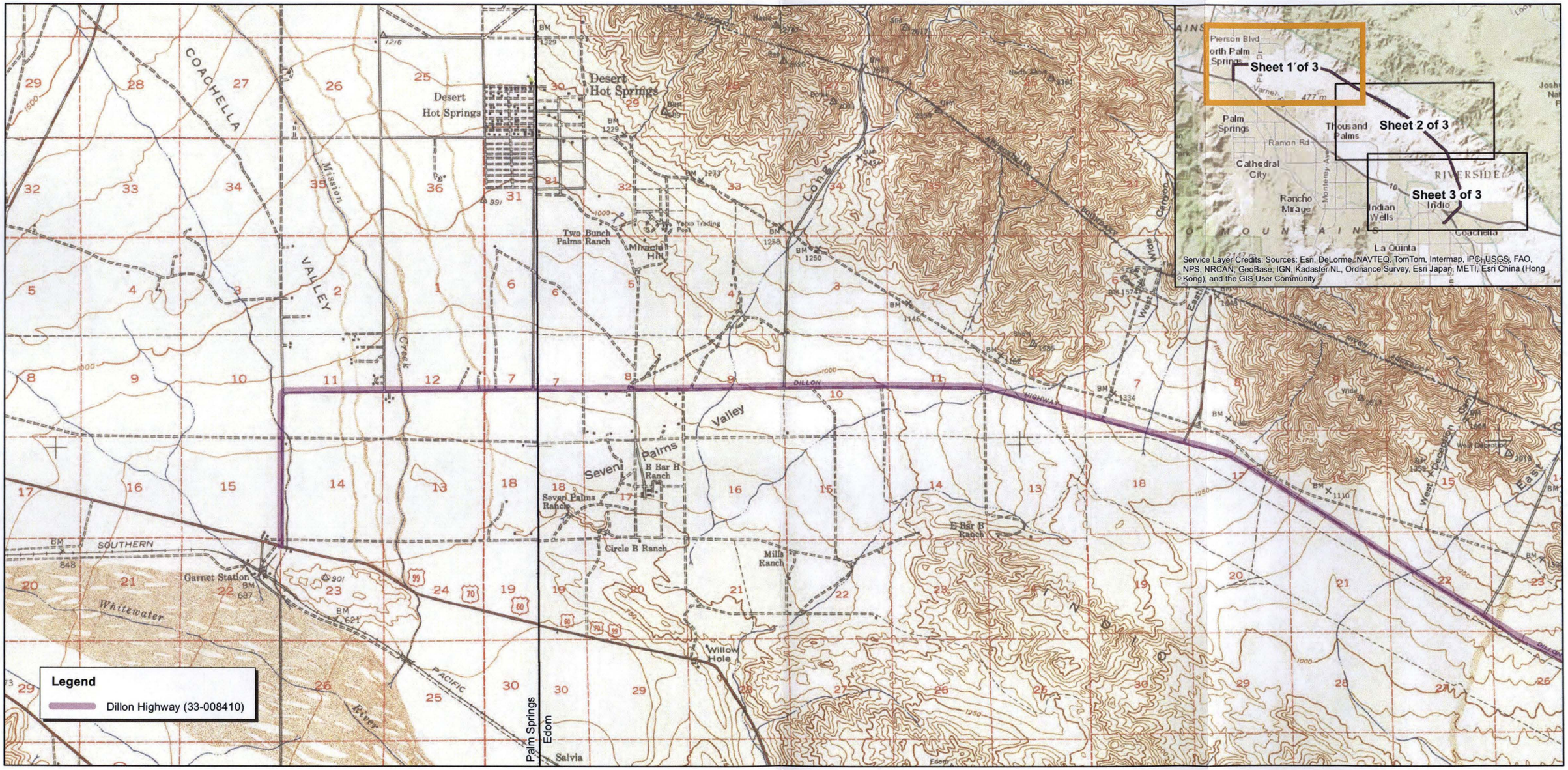
Resource Name or #: Dillon Highway (MWD's Garnet-to-Indio trunk road)

Map Name: Palm Springs (1940) and Edom (1941), CA 15' USGS/Army COE quadrangles

Scale: 1:62,500 **CA-RIV-013015**

Date: 2015



TRUE NORTH

1 0.5 0 1 2 3 4 Miles

2,000 0 2,000 4,000 6,000 8,000 10,000 12,000 14,000 16,000 18,000 20,000 Feet

1 0.5 0 1 2 3 4 5 Kilometers

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CONTINUATION SHEET

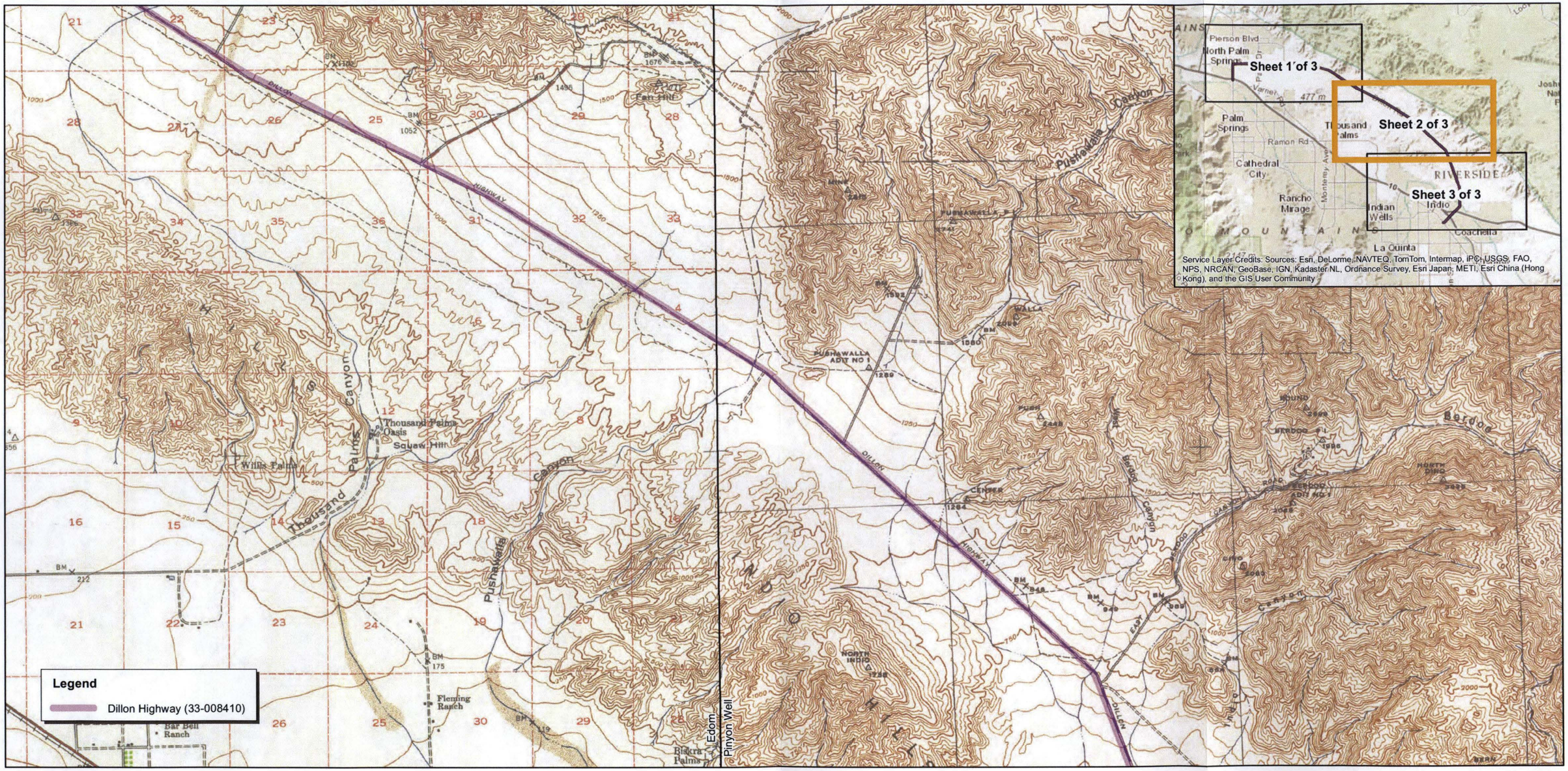
Primary # 33-008410 (upd
HRI#
Trinomial **CA-RIV-013015**

Resource Name or #: Dillon Highway (MWD's Garnet-to-Indio trunk road)

Map Name: Edom (1941) and Pinyon Well (1944), CA 15' USGS/Army COE quadrangles

Scale: 1:62,500

Date: 2015



TRUE NORTH

1 0.5 0 1 2 3 4 Miles

2,000 0 2,000 4,000 6,000 8,000 10,000 12,000 14,000 16,000 18,000 20,000 Feet

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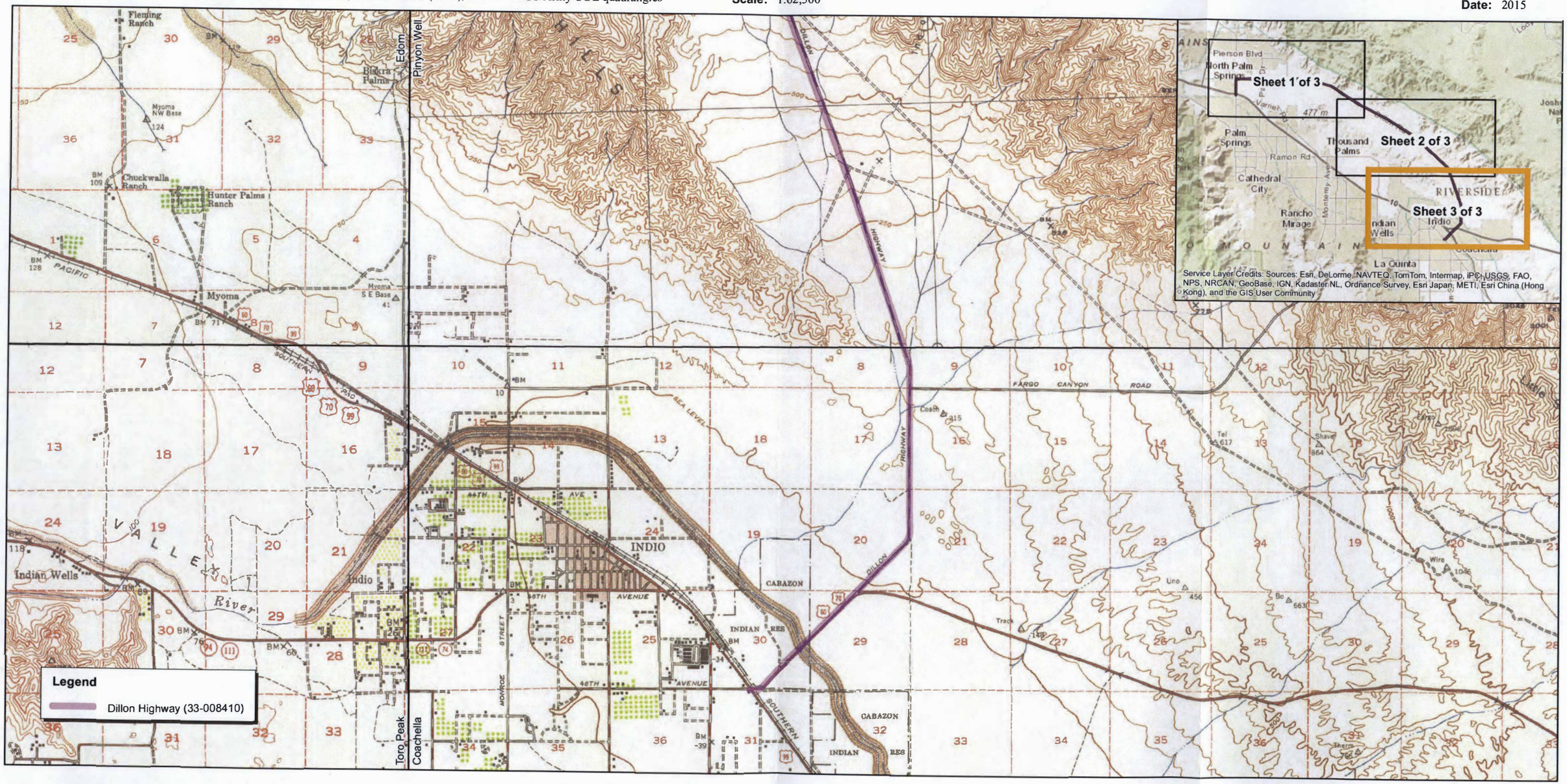
Resource Name or #: Dillon Highway (MWD's Garnet-to-Indio trunk road)

Map Name: Edom (1941), Pinyon Well (1944) Toro Peak (1941) and Coachella (1941), CA 15' USGS/Army COE quadrangles

Scale: 1:62,500

Date: 2015



State of California —The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
SKETCH MAP

Primary # 33-008410 (upd
HRI#
Trinomial

CA-RIV-013015

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Drawn by: J. Smallwood
Resource Name or #: Dillon Highway (MWD's Garnet-to-Indio trunk road)
Scale: 1:120,000 (1 inch = 10,000 feet)
Date: 2015



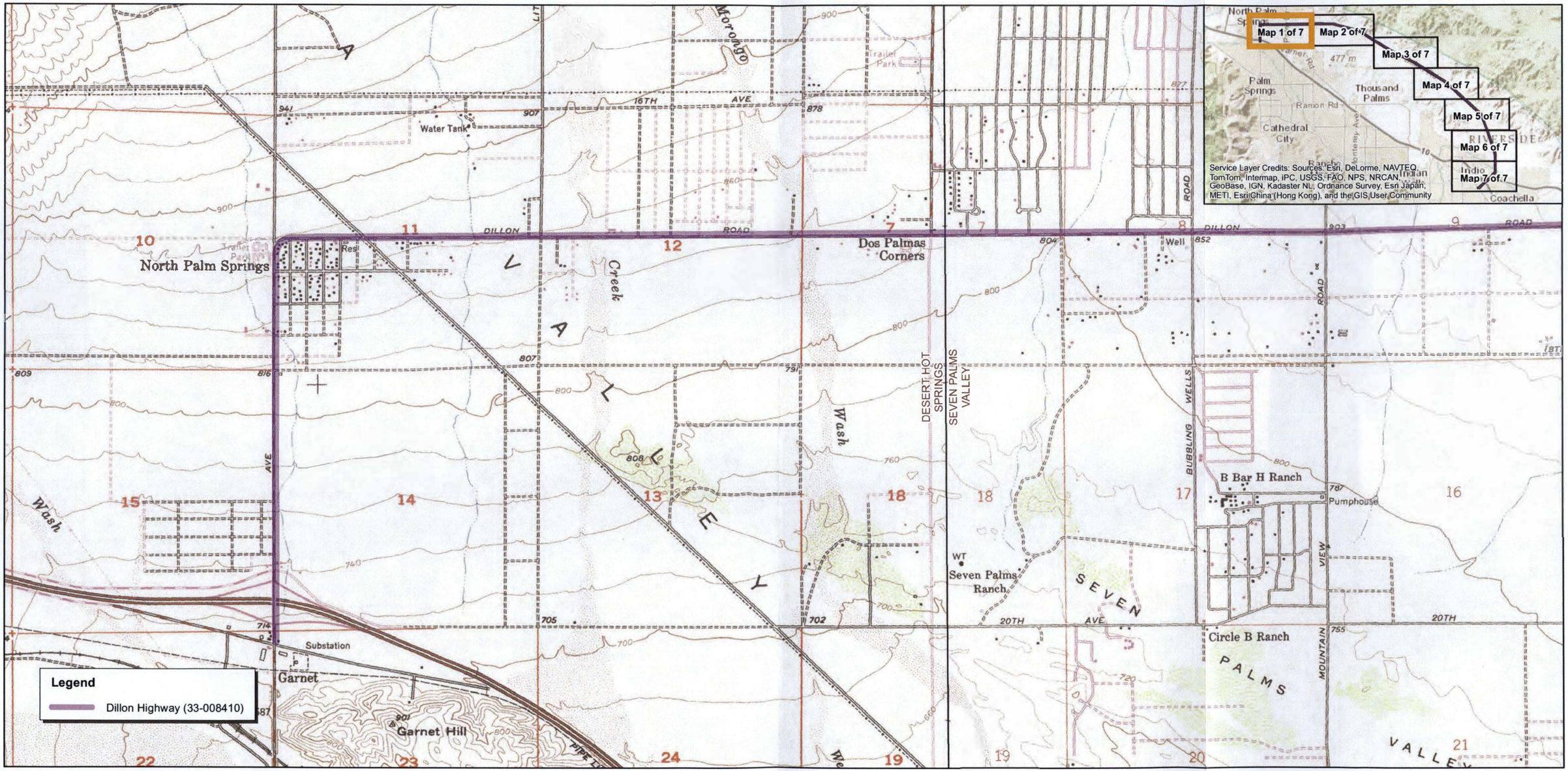
State of California —The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
LOCATION MAP

Primary # 33-008410 (upd
HRI#
Trinomial

Page 19 **of** 25 **Resource Name or #:** Dillon Highway (MWD's Garnet-to-Indio trunk road)

CA-RIV-013015

Map Name: Desert Hot Springs (1955, photorev. 1972, photoinsp. 1978) and Seven Palms Valley (1958, photorev. 1972), CA 7.5' USGS Quads **Scale:** 1:24,000 **Date:** 2015



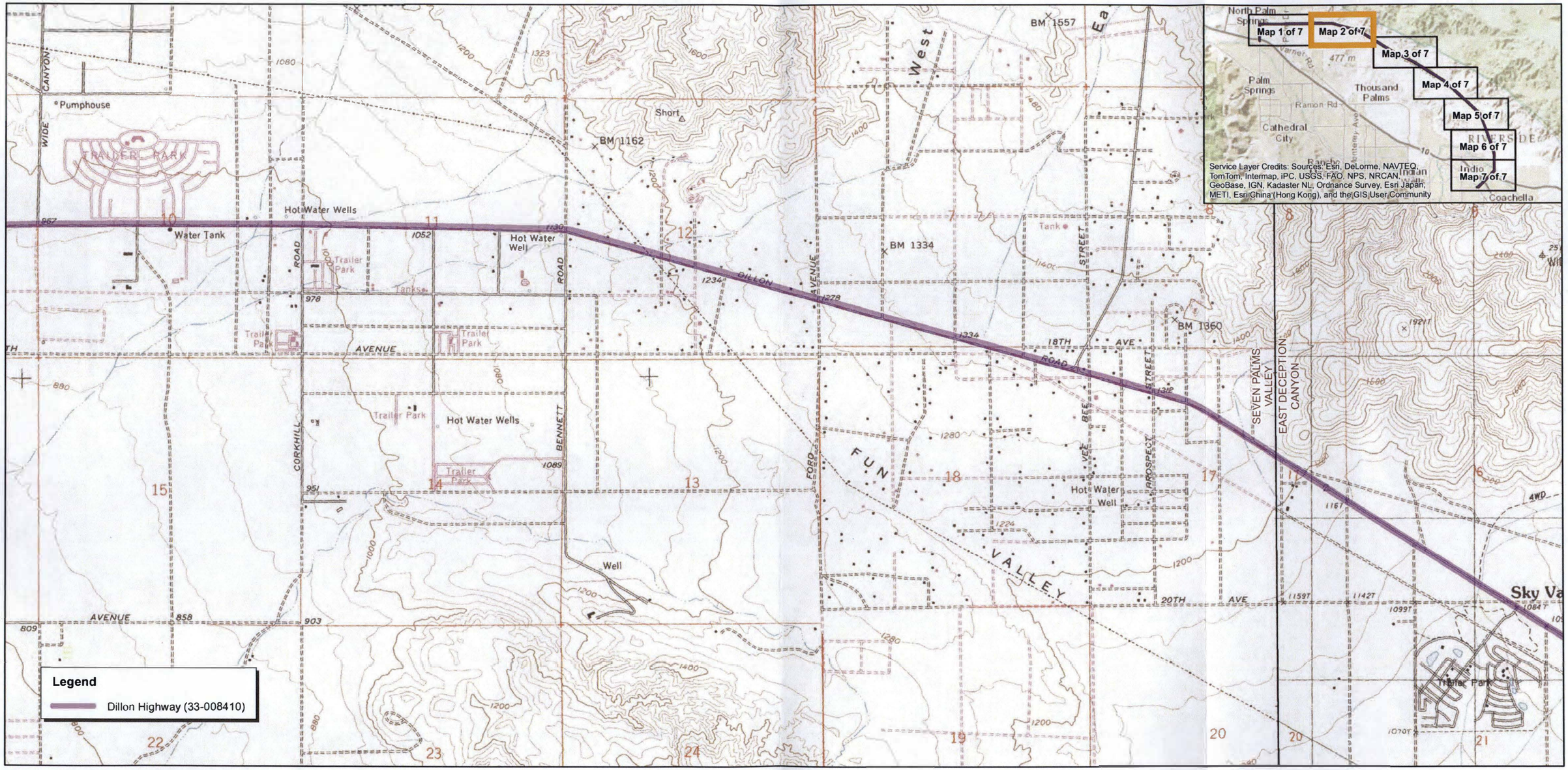
State of California —The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
LOCATION MAP

Primary # 33-008410 (upd
HRI#
Trinomial

CA-RIV-013015

Resource Name or #: Dillon Highway (MWD's Garnet-to-Indio trunk road)

Map Name: Seven Palms Valley (1958, photorevised 1972) and East Deception Canyon (1988 Provisional), CA 7.5' USGS Quadrangles **Scale:** 1:24,000 **Date:** 2015



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DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

Primary # 33-008410 (upda
HRI#
Trinomial

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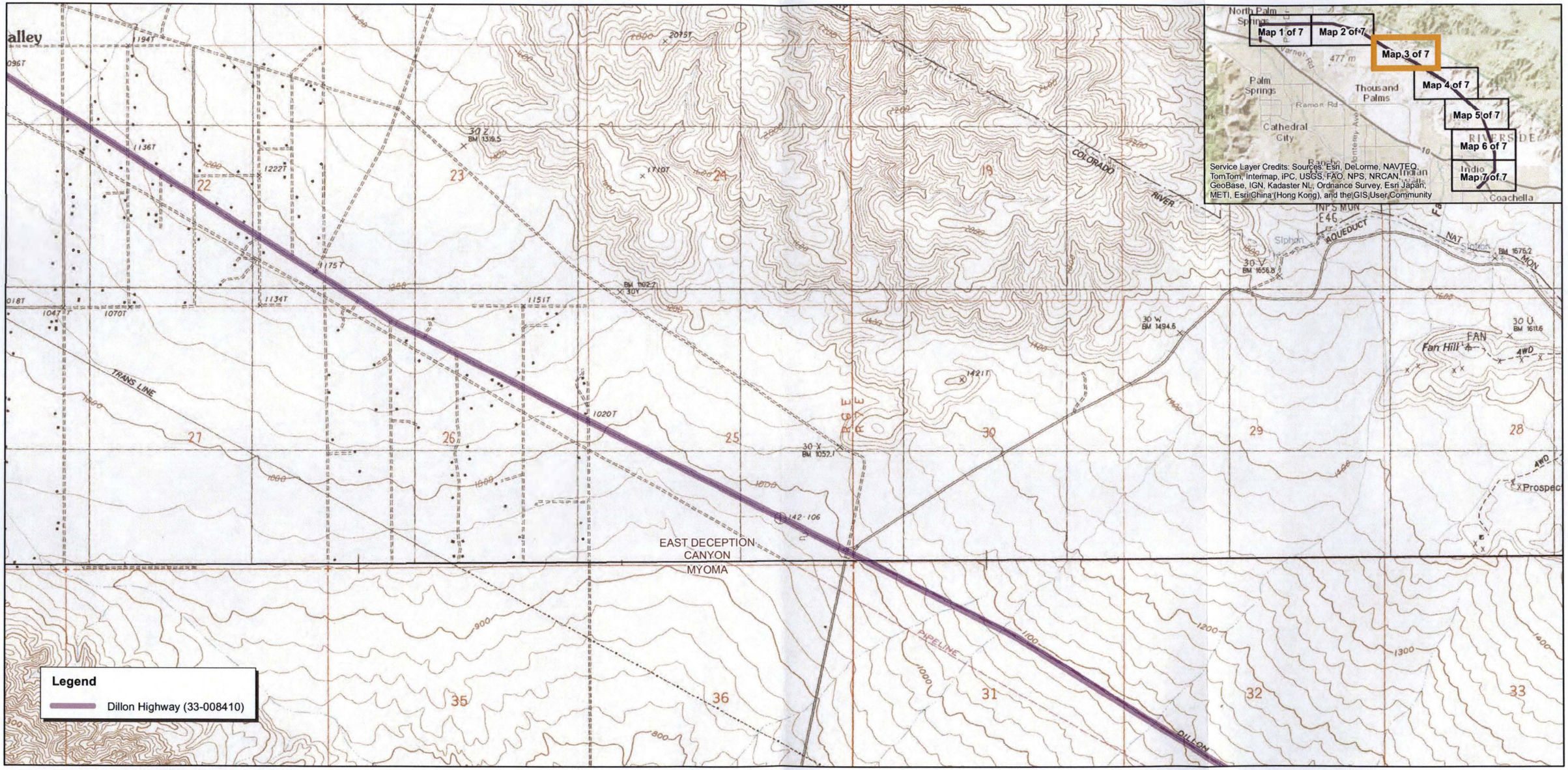
Resource Name or #: Dillon Highway (MWD's Garnet-to-Indio trunk road)

CA-RIV-013015

Map Name: East Deception Canyon (1988 Provisional) and Myoma (1958, photorevised 1972), CA 7.5' USGS Quadrangles

Scale: 1:24,000

Date: 2015



State of California —The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
LOCATION MAP

Primary # 33-008410 (upda
HRI#
Trinomial

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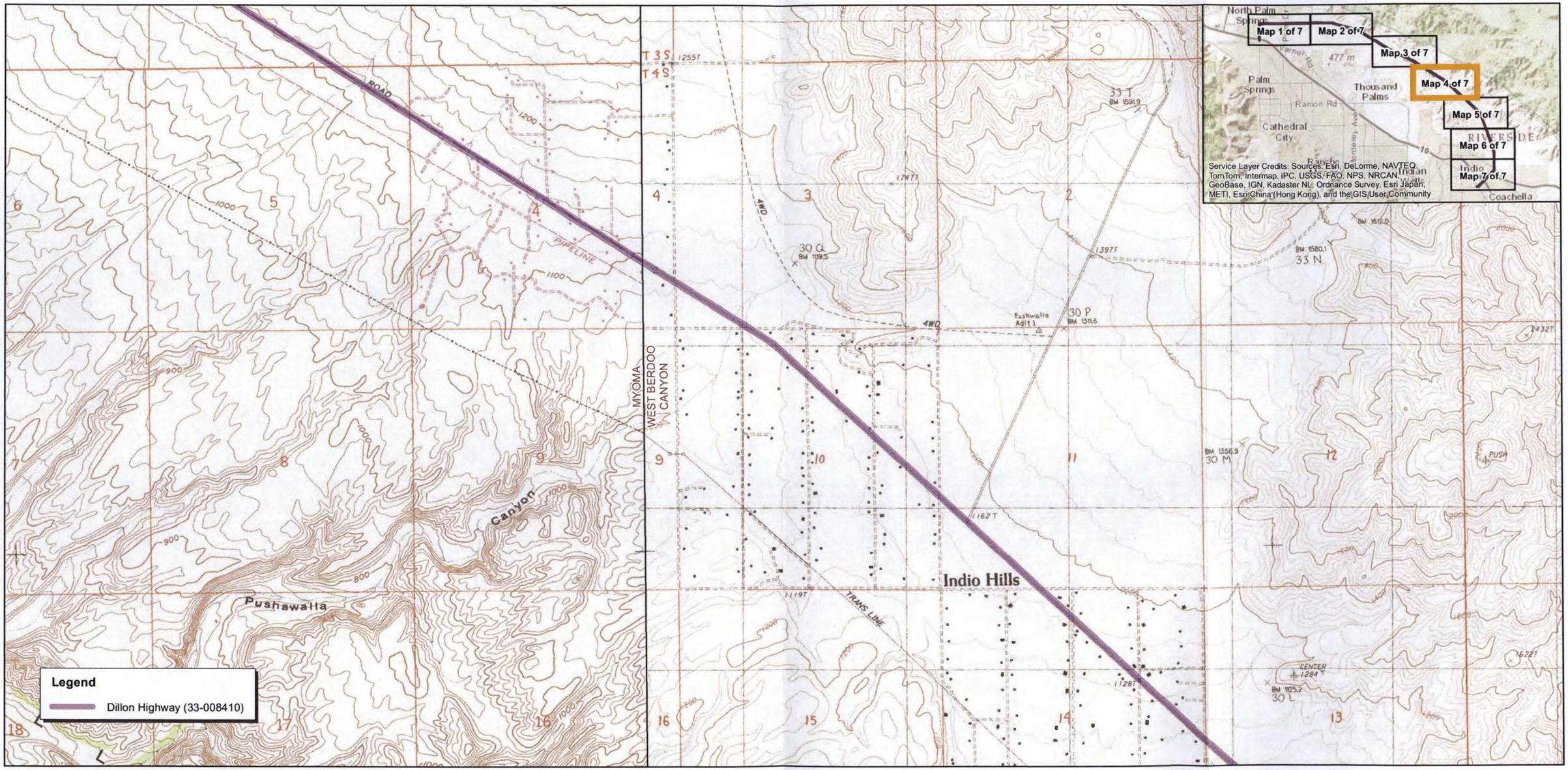
Resource Name or #: Dillon Highway (MWD's Garnet-to-Indio trunk road)

CA-RIV-013015

Map Name: Myoma (1958, photorevised 1972) and West Berdoo Canyon (1988), CA 7.5' USGS Quadrangles

Scale: 1:24,000

Date: 2015



TRUE NORTH

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2,000 0 2,000 4,000 6,000 Feet

0.5 0.25 0 0.5 1 1.5 Kilometers

Map 4 of 7

State of California —The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
LOCATION MAP

Primary # 33-008410 (upda
HRI#
Trinomial

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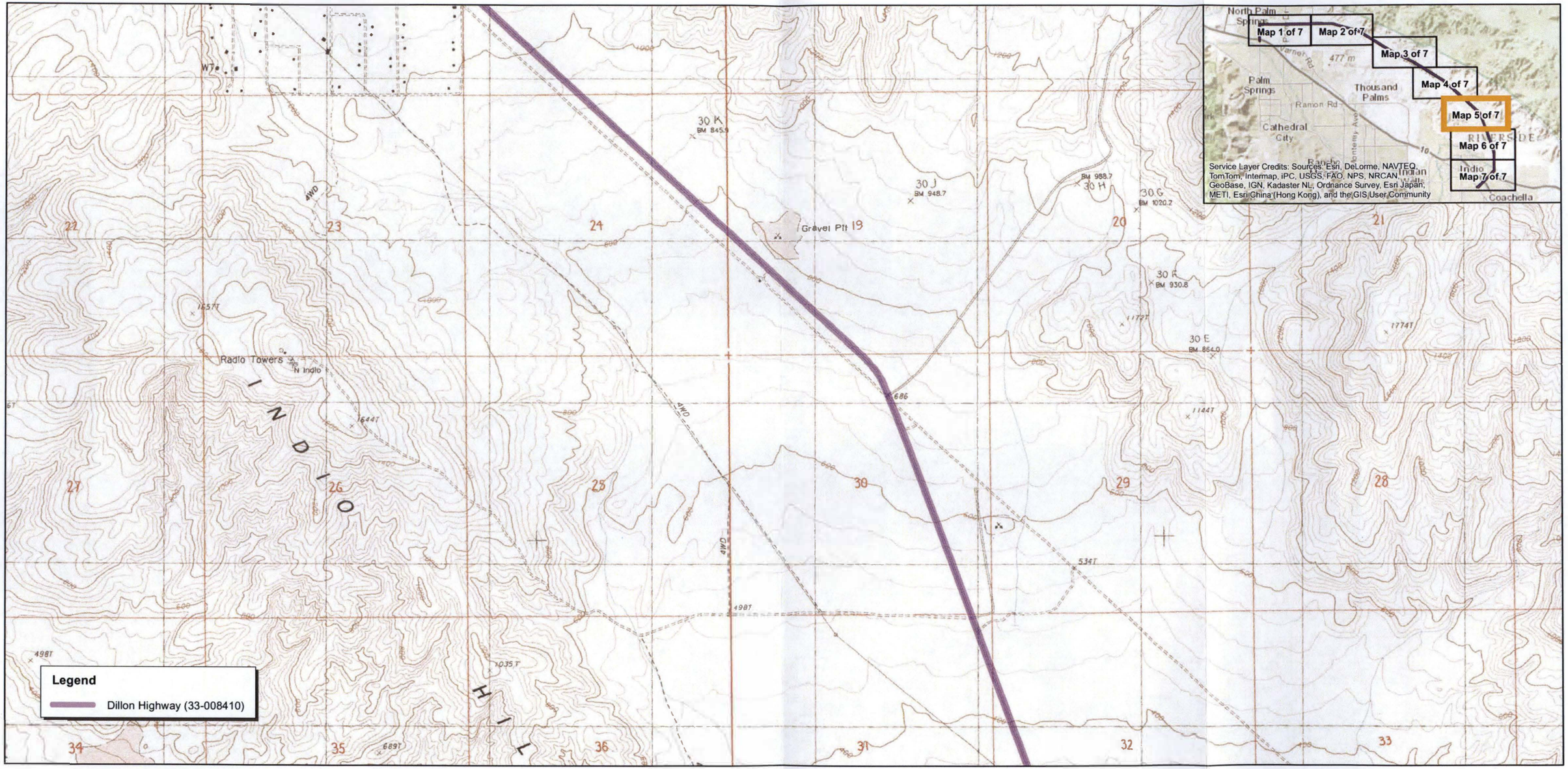
Resource Name or #: Dillon Highway (MWD's Garnet-to-Indio trunk road)

CA-RIV-013015

Map Name: West Berdoo Canyon (1988), CA 7.5' USGS Quadrangle

Scale: 1:24,000

Date: 2015



TRUE NORTH

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2,000 0 2,000 4,000 6,000 Feet

0.5 0.25 0 0.5 1 1.5 Kilometers

Map 5 of 7

State of California —The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

Primary # 33-008410 (upda
HRI#
Trinomial

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Resource Name or #: Dillon Highway (MWD's Garnet-to-Indio trunk road)

CA-RIV-013015

Map Name: West Berdoo Canyon (1988) and Indio (1956, photorevised 1972), CA 7.5' USGS Quadrangles

Scale: 1:24,000

Date: 2015



Map 6 of 7

State of California —The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

Primary # 33-008410 (upda
HRI#
Trinomial

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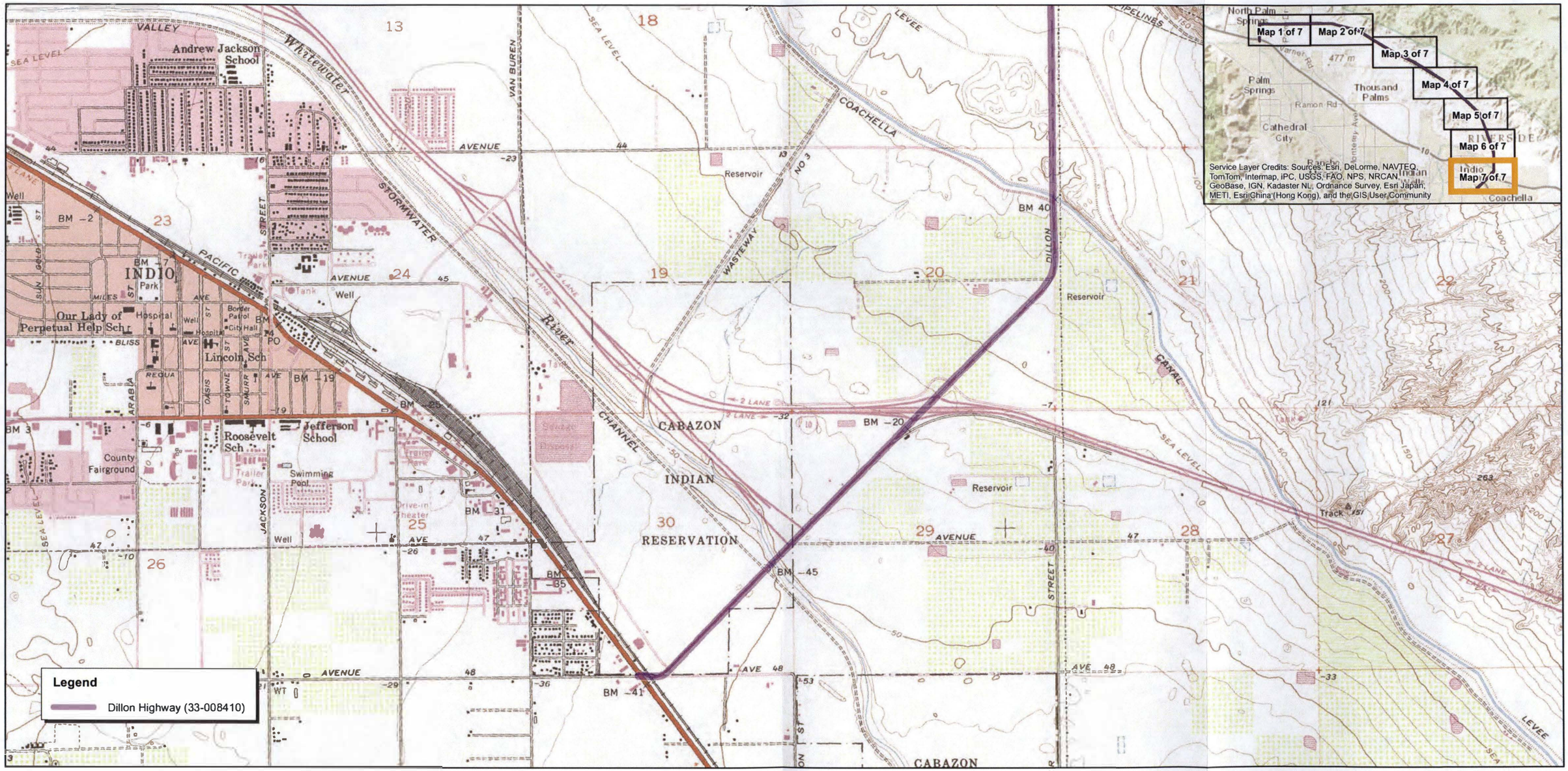
Resource Name or #: Dillon Highway (MWD's Garnet-to-Indio trunk road)

CA-RIV-013015

Map Name: Indio (1956, photorevised 1972), CA 7.5' USGS Quadrangle

Scale: 1:24,000

Date: 2015



PROV # 121339
DOE-33-99-0003-0000

State of California – The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # 33-8410
HRI #
Trinomial CA-RIV-013015
NRHP Status Code 6Y2
Other Listings
Review Code ____ Reviewer ____ Date / /

*Resource Name or #: Dillon Road

P1. Other Identifier: Dillon Highway

*P2. Location: ☐ Not for Publication ☒ Unrestricted a. County Riverside

b. USGS 7.5' Quad Desert Hot Springs Date 55/78 T 03S ; R 05E ; SE 1/4 of NW/4 of Sec 07 ; SBM B.M.

c. Address ____ City ____ Zip ____

d. UTM: (Give more than one for large and/or linear feature) Zone 11 , 546130 mE/ 3753750 mN

e. Other Locational Data: (e.g. parcel #, legal description, directions to resource, elevation, additional UTMs, etc. as appropriate)

Entire length: western terminus of 30-mile segment was originally at Indian Avenue (542105 mE, 3753730 mN), eastern terminus is at Avenue 48 in Indio (575080 mE, 3729040 mN). 880 to -40 ft. msl.

*P3a. Description: (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries.)

Dillon Road, named for former County Supervisor Robert Dillon, is a two lane asphalt road that traverses the northern part of the Coachella Valley in a northwest to southeast direction, from North Palm Springs to Indio. It is the primary access route to, and across, this region. Literature/maps indicate a construction date of circa 1933-1939. The boundaries of the segment recorded for the Palm Drive Improvements study extend 100 feet both east and west of the 110 foot wide Palm Drive right-of-way (310 feet total). While most of Dillon Road maintains its original character, the intersection with Palm Drive has had many modifications, particularly with the extension of Palm Drive from Dillon Road to I-10 in 1967 and subsequent signalization. The Palm Drive/Dillon Road intersection also has buildings on the NW, NE, and SW corners and utility lines running along the south side of Dillon.

*P3b. Resource Attributes: (List attributes and codes) HP37. Highway/Trail

*P4. Resource Present: ☐ Building ☒ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects)

Date of Photo: 08/23/1998

Photo Number: BW2-10

P5b. Description of Photo: (View, date, etc.)
Looking west across Palm Drive on 08/23/1998

*P6. Date Constructed/Age and Sources:
☐ Prehistoric ☒ Historic ☐ Both
Literature/maps indicate construction circa 1933-1939

*P7. Owner and Address:
County of Riverside
P.O. Box 1090
Riverside, CA 92502
C--County

*P8. Recorded by: (Name, affiliation, address)
J. Brock
Archaeological Advisory Group
P.O. Box 491
Pioneertown, CA 92268

*P9. Date Recorded: 08/23/1998

*P10. Survey Type: (Describe)
Intensive, systematic, Caltrans Section 106

*P11. Report Citation: (Cite survey report/other sources or "none") J. Brock & C. di Iorio 1998 Historic Resource Evaluation Report Palm Drive Widening, Desert Hot Springs. Ms. on file, CHRIS, UCR.

*Attachments: ☐ NONE ☒ Location Map ☐ Sketch Map ☐ Continuation Sheet ☐ Building, Structure and Object Record
☐ Archaeological Record ☐ District Record ☒ Linear Feature Record ☐ Milling Station Record ☐ Rock Art Record ☐ Artifact Record
☐ Photograph Record ☐ Other: (List)

DPR 523A (1/95) *Required Information

State of California – The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
LINEAR FEATURE RECORD

Primary # 33-8410
HRI #
Trinomial **CA-RIV-013015**

Page 2 of 3

Resource Name or #: Dillon Road

L1. Historic and/or Common Name: Dillon Highway

L2a. Portion Described: ☐ Entire Resource ■ Segment ☐ Point Observation Designation: Intersec. w/Palm Dr.

b. Location of point or segment: (Provide UTM coordinates, legal description, etc. Show field inspected area on a Location Map.)

Intersection of Dillon Road and Palm Drive. 310 foot segment consists of 110 foot Palm Drive right-of-way along with 100 feet east and west of right-of-way.

L3. Description: (Describe construction details, materials, and artifacts found at this segment or point. Provide plans or sections as appropriate.)

Recorded segment only: 4 lane asphalt road with curbs and gutters.

L4. Dimensions: (In feet for historic features and meters for prehistoric features.)

a. Top Width 76 feet
b. Bottom Width
c. Height or Depth
d. Length of Segment 310 feet

L5. Associated Resources:

L4c Sketch of Cross-Section (Include scale) Facing:

L6. Setting: (Describe natural features, landscape characteristics, slope, etc. as appropriate.):

Creosote scrub community. Landscape is fairly level. Setting is rural.

L7. Integrity Considerations:

The segment considered in our study (intersection of Palm Drive and Dillon Road) has been heavily modified by improvements to the intersection.

L8a. Photograph, Map or Drawing

Date of Photo: / /

Photo Number: see P5a

Graphics Filename: @ 0DPI

L8b. Description of Photo, Map, or Drawing: (View, scale, etc.)

L9. Remarks:

L10. Form Prepared by: (Name, affiliation & address)

J. Brock
Archaeological Advisory Group
P.O. Box 491
Pioneertown, CA 92268

L11. Date: 08/23/1998

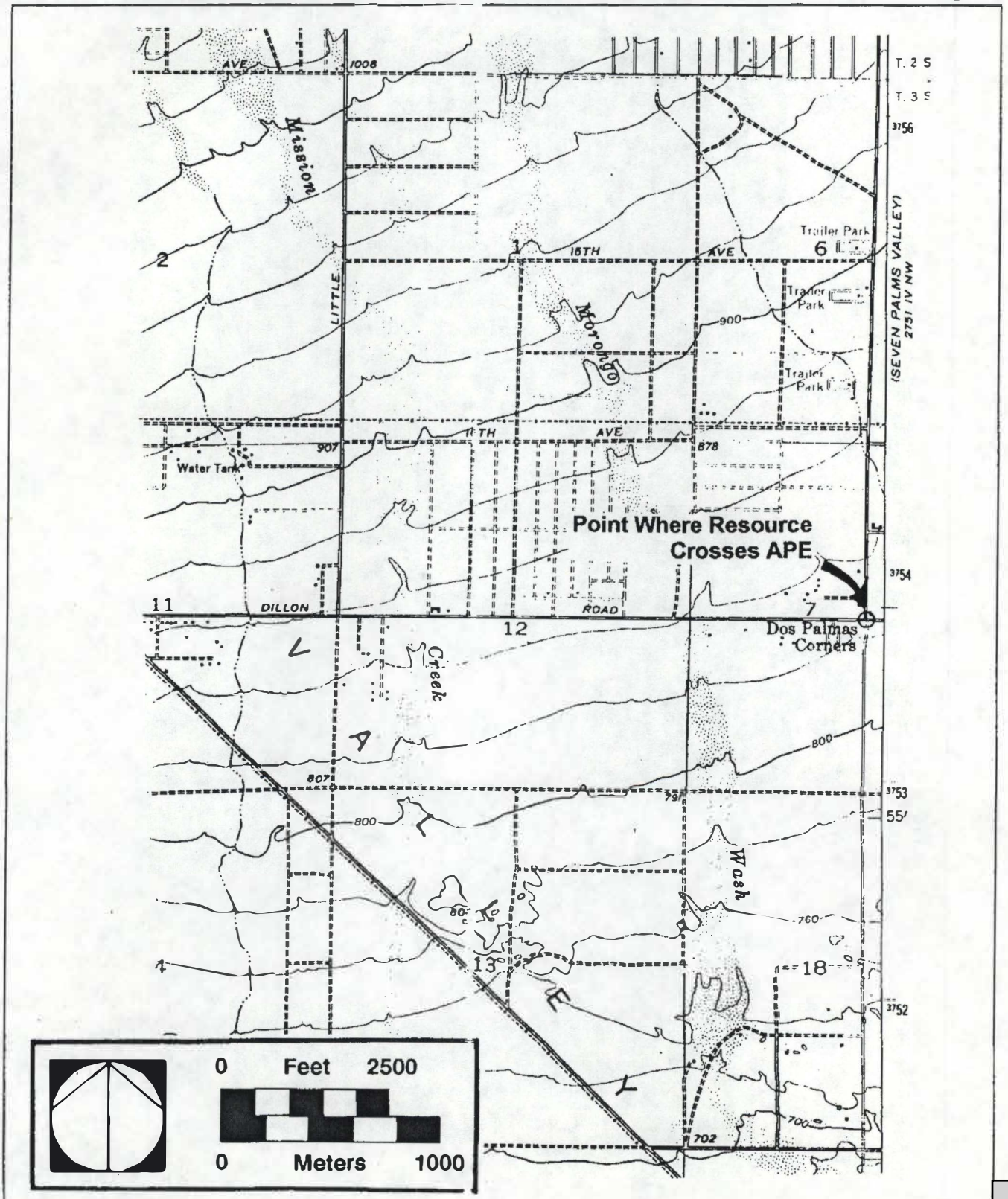
DPR 523E-Test (01/95)

Primary # 33-8410

CA-RIV-013015

*Resource Name or #: Dillon Road

*Map Name: Desert Hot Springs, Calif. *Scale: 1:24,000 *Date of Map: 1955, pi78



*Required information

P-33-008410
CA-RIV-013015



State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
PRIMARY RECORD

Primary #
HRI #
Trinomial #
NRHP Status Code 6Z
CA-RIV-12870

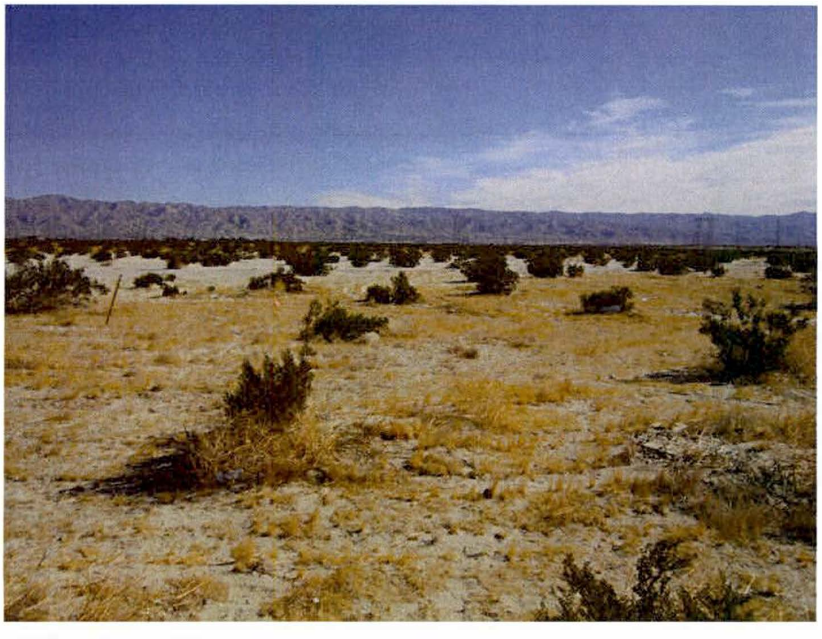
Other Listings
Review Code | Reviewer | Date

*Resource Name or #: BW-001

P1. Other Identifier: None
*P2. Location: ☒ Not for Publication ☐ Unrestricted *a. County: Riverside
*b. USGS 7.5' Quad: Desert Hot Springs, California Date: 1952 (Photorevised 1972) T3S; R4E; SW ¼ of the NE ¼ of Sec 14; San Bernardino B. M.
c. Address: N/A City: Desert Hot Springs, CA Zip: 92240
d. UTM: NAD 83; Zone: 11N 542872mE / 3752303mN
e. Other Locational Data: 755 feet above mean sea level
Directions: From the intersection of Interstate-10 and North Indian Canyon Drive in the City of Desert Hot Springs, proceed north on North Indian Canyon Drive for 0.01 mile to the intersection of North Indian Canyon Drive and 20th Avenue. At this point turn right (east) onto 20th Avenue and proceed east/southeast 0.58 mile. At this point the site is located 0.47 mile north on undeveloped desert landscape.

*P3a. Description: This historic-period site consists of two crushed matchstick-filler (MSF) vent-hole cans and a single upright pocket tobacco tin. Matchstick-filler cans were manufactured from 1930 to 1975 and were typically used for packaging condensed or evaporated milk (Simonis n.d.). This site is located among intertwining northwest by southeast seasonal drainages and is likely out-of-situ.

*P3b. Resource Attributes: AH4. Privies/dumps/trash scatters



*P4. Resources Present: ☐Building ☐Structure ☐Object ☒Site ☐District ☐Element of District ☐Other (Isolates, etc.)

P5b. Description of Photo: BW-001, Overview, Facing Northeast. 9/25/2017. Photo # 002

*P6. Date Constructed/Age and Sources:
☒Historic
☐Prehistoric ☐Both

*P7. Owner and Address: Private Owner

*P8. Recorded by:
Andrew Myers
ECORP Consulting, Inc.
215 N. 5th Street
Redlands, Ca 92373

*P9. Date Recorded: September 25, 2017

*P10. Survey Type: Pedestrian survey

*P11. Report Citation:
Myers, Andrew and Wendy Blumel
2017 Cultural Resources Investigation for the Interstate West Industrial Park Project in the City of Desert Hot Springs, Riverside County, California. Prepared by ECORP Consulting, Inc., Redlands, California. Prepared for Interstate West Industrial, LLC, Palm Springs, California.
Simonis, Don
n.d. Condensed/Evaporated Milk Cans: Chronology for Dating Historical Sites. U.S. Department of the Interior, Bureau of Land Management, Washington, D.C.

*Attachments: ☐NONE ☒Location Map ☐Sketch Map ☐Continuation Sheet ☐Building, Structure, and Object Record ☒Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record ☐Artifact Record ☐Photograph Record ☐ Other (List):

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State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
ARCHAEOLOGICAL SITE RECORD

Primary #
Trinomial

CA-RIV- 1287 9

 *Resource Name or #: BW-001

*A1. Dimensions: a. Length N-S: 39 feet (12 meters) x b. Width E-W: 144 feet (44 meters)
Method of Measurement: ☐ Paced ☐ Taped ☐ Visual estimate ☒Other: GPS
Method of Determination (Check any that apply.): ☒Artifacts ☐ Features ☐ Soil ☐ Vegetation ☐ Topography ☐ Cut bank ☐ Animal burrow ☐ Excavation ☐Property boundary ☐ Other (Explain):

Reliability of Determination: ☒ High ☐ Medium ☐ Low Explain: Historical context and seasonal drainages identified via aerials.

Limitations (Check any that apply): ☒ Restricted access ☐ Paved/built over ☐ Site limits incompletely defined ☒ Disturbances ☐ Vegetation ☐ Other (Explain):

A2. Depth: ☐ None ☒ Unknown Method of Determination: Not Tested

*A3. Human Remains: ☐ Present ☐ Absent ☐ Possible ☒ Unknown (Explain): Not Tested

*A4. Features (Number, briefly describe, indicate size, list associated cultural constituents, and show location of each feature on sketch map.):

There are no identified features associated with this site.

*A5. Cultural Constituents (Describe and quantify artifacts, ecofacts, cultural residues, etc., not associated with features.):

Artifact 1 (A1) is a historic-period crushed match-stick-filler (MSF) can.

Artifact 2 (A2) is a historic-period crushed match-stick-filler (MSF) can.

Artifact 3 (A3) is a historic-period upright pocket-tobacco tin.

*A6. Were Specimens Collected? ☒ No ☐ Yes (If yes, attach Artifact Record or catalog and identify where specimens are curated.)

*A7. Site Condition: ☐ Good ☒ Fair ☐ Poor (Describe disturbances.): numerous intertwining northwest to southeast trending seasonal drainages were noted in the vicinity of the site.

*A8. Nearest Water (Type, distance, and direction.): Mission Creek, identified on the 7.5' USGS Desert Hot Springs Quadrangle is located 0.67 mile east of BW-001.

*A9. Elevation: 755 feet above mean sea level

A10. Environmental Setting (Describe culturally relevant variables such as vegetation, fauna, soils, geology, landform, slope, aspect, exposure, etc.): The site is located on open desert landscape. The primary vegetation community is creosote. The site itself is highly exposed on a slight northwest to southeast slope of sandy silt.

A11. Historical Information: No archival research was conducted as part of this study.

*A12. Age: ☐ Prehistoric ☐ Protohistoric ☐ 1542-1769 ☐ 1769-1848 ☐ 1848-1880 ☒ 1880-1914 ☒ 1914-1945 ☐ Post 1945 ☒ Undetermined **Describe position in regional prehistoric chronology or factual historic dates if known:** MSF cans were manufactured from 1930-1975 and were typically used for condensed or evaporated milk (Simonis n.d) Pocket tobacco tins of this nature were introd in 1907 or early 1908 (Rock 1989)

A13. Interpretations (Discuss data potential, function[s], ethnic affiliation, and other interpretations): BW-001 appears to have diffused from a larger more discreet historic-period refuse deposit likely upslope its current location

A14. Remarks: BW-001 consists of a historic-period refuse scatter and cannot be tied to any significant impact on local history. The constituents of BW-001 are practical in nature and commonly found in the region. The constituents associated with the site would have contributed little to any broad pattern of local history. Therefore, the site is not recommended eligible for the California Register of Historical Resources (CRHR) under Criterion 1. There is no evidence that this site was part of a residence or had any strong association with the region. This specific site, therefore, did not contribute to standing of any individuals in the community. The subsequent owners of the site are not known to have been significant individuals in either Desert Hot Springs or North Palm Springs history. Thus, this site is not recommended eligible under Criterion 2. The site does not display unique characteristics, represent the work of a master, or display innovative technologies. As a result, the site is not recommended eligible under Criterion 3. Because there is no indication of any residential use of the property, this resource is not likely to

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Primary #
Trinomial

CA-RIV- 12879

contain significant subsurface archaeological deposits. Furthermore, the limited data potential of this resource, which is limited to common and ubiquitous items in the area, has been nearly exhausted by the level of recording and research that has already been conducted. The site is highly unlikely to yield any additional information to aid our understanding of the region's history. Therefore, the site is not recommended eligible for the CRHR under Criterion 4. Because the site does not appear to meet any of the eligibility criteria, the site is not evaluated as eligible for the CRHR.

A15. References (Documents, informants, maps, and other references):

Myers, Andrew and Wendy Blumel
2017 Cultural Resources Investigation of an approximately 100-acre Project Area in the City of Desert Hot Springs, Riverside County, California. Prepared by ECORP Consulting, Inc., Redlands, California. Prepared for Big Wave Holdings, LLC, Palm Springs, California.

Simonis, Don
n.d. Condensed/Evaporated Milk Cans: Chronology for Dating Historical Sites. U.S. Department of the Interior, Bureau of Land Management, Washington, D.C.

Rock, Jim
1989 Tin Canisters Their Identification. Yreka, California

A16. Photographs (List subjects, direction of view, and accession numbers or attach a Photograph Record.):
23 Photos on-file Kept at: ECORP Consulting, Inc. 215 N Fifth Street, Redlands, California 92373

***A17. Form Prepared by:** Andrew Myers **Date:** 10/12/2017
Affiliation and Address: ECORP Consulting, Inc. 215 N Fifth Street, Redlands, California 92373

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
SKETCH

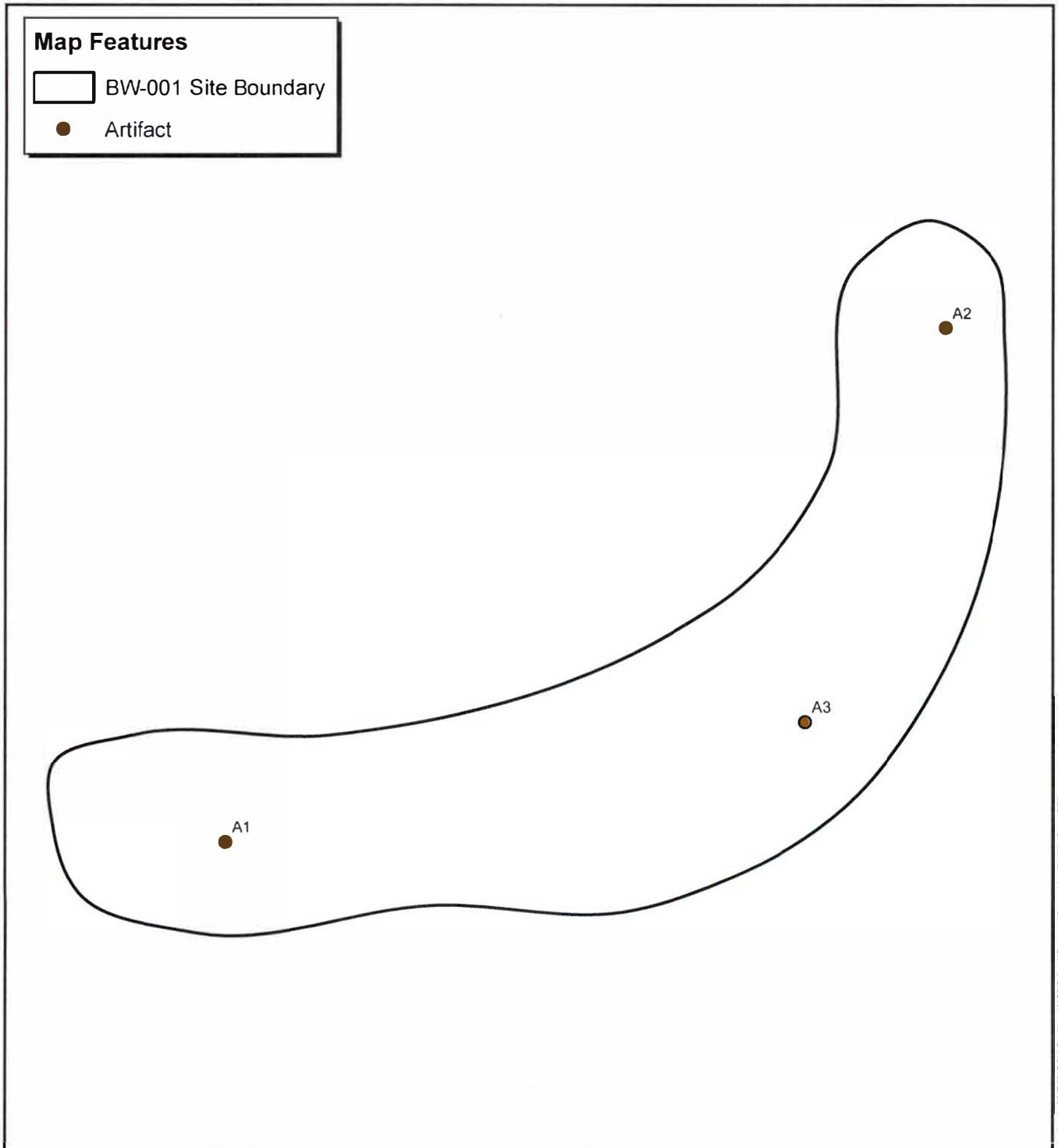
Primary #
HRI #
Trinomial

CA-RIV- 1287

MAP Page 4 of 5
*Drawn By: Andrew Myers

*Resource Name or #: BW-001

*Date: 09/25/2017



*Required Information

DPR 523K (1/95)

0 7.5 15 30 Feet
0 2.5 5 10 Meters

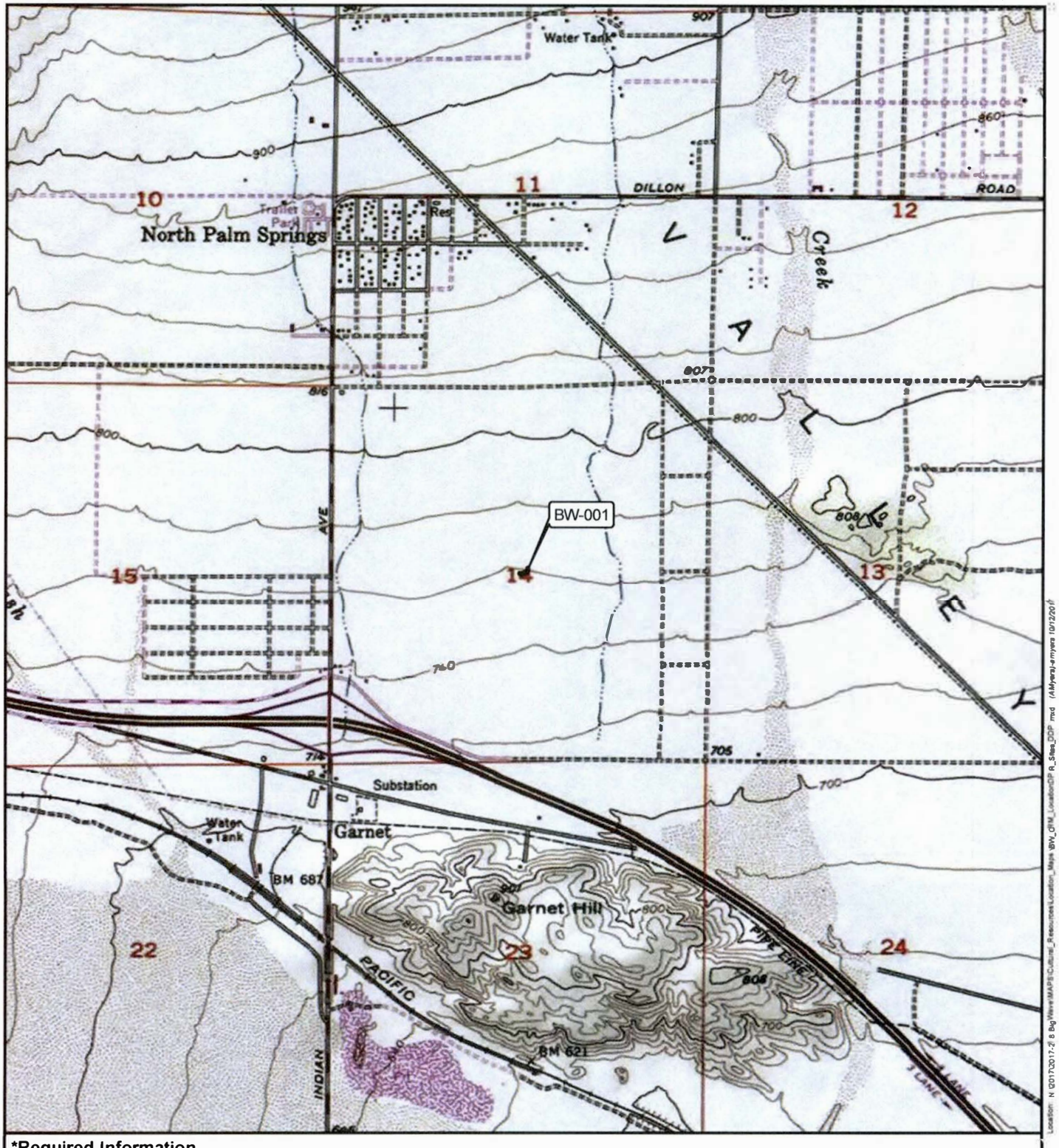
ECORP Consulting, Inc.
ENVIRONMENTAL CONSULTANTS

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
LOCATION MAP

Primary #
HRI #
Trinomial
CA-RIV- 12879

Page 5 **of** 5 ***Resource Name or #:** BW-001

***Map Name:** Desert Hot Springs, CA ***Scale:** 1:24,000 ***Date of Map:** 1952 (rev. 1972)



***Required Information**

0 1,000 2,000 4,000 Feet
0 250 500 1,000 Meters

ECORP Consulting, Inc.
ENVIRONMENTAL CONSULTANTS

DPR 523J (1/95)

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
PRIMARY RECORD

Primary #
HRI #
Trinomial #
NRHP Status Code 6Z

Other Listings
Review Code | Reviewer | Date

*Resource Name or #: BW-003-I

P1. **Other Identifier:** None
*P2. **Location:** ☒ **Not for Publication** ☐ **Unrestricted** *a. **County:** Riverside
*b. **USGS 7.5' Quad:** Desert Hot Springs, California **Date:** 1952 (Photorevised 1972) **T**3S; **R**4E; NW ¼ **of the** SE ¼ **of Sec** 14; San Bernardino B. M.
c. Address: N/A City: Desert Hot Springs, CA Zip: 92240
d. UTM: NAD 83; Zone: 11N 543060mE / 3752273mN
e. Other Locational Data: 751 feet above mean sea level
Directions: From the intersection of Interstate-10 and North Indian Canyon Drive in the City of Desert Hot Springs, proceed north on North Indian Canyon Drive for 0.01 mile to the intersection of North Indian Canyon Drive and 20th Avenue. At this point turn right (east) onto 20th Avenue and proceed east/southeast 0.74 mile. At this point the site is located 0.46 mile north across undeveloped desert landscape.

*P3a. **Description:** This historic-period isolate consists one crushed matchstick-filler (MSF) vent-hole can. Matchstick-filler cans were manufactured from 1930 to 1975 and were typically used for packaging condensed or evaporated milk (Simonis n.d.). The can was opened via ice-pick. This isolate is located among intertwining northwest by southeast seasonal drainages and is likely out-of-situ.

*P3b. **Resource Attributes:** AH4. Privies/dumps/trash scatters



*P4. **Resources Present:** ☐Building ☐Structure ☐Object ☐Site ☐District ☐Element of District ☒Other (Isolates, etc.)

P5b. Description of Photo: BW-003-I, Detail, Facing Ground. 9/25/2017. Photo # 004

*P6. **Date Constructed/Age and Sources:**
☒Historic
☐Prehistoric ☐Both

*P7. **Owner and Address:** Private Owner

*P8. **Recorded by:**
Andrew Myers
ECORP Consulting, Inc.
215 N. 5th Street
Redlands, Ca 92373

*P9. **Date Recorded:** September 25, 2017

*P10. **Survey Type:** Pedestrian survey

*P11. **Report Citation:**
Myers, Andrew and Wendy Blumel
2017 Cultural Resources Investigation for the Interstate West Industrial Park Project in the City of Desert Hot Springs, Riverside County, California. Prepared by ECORP Consulting, Inc., Redlands, California. Prepared for Interstate West Industrial, LLC, Palm Springs, California.

Simonis, Don
n.d. Condensed/Evaporated Milk Cans: Chronology for Dating Historical Sites. U.S. Department of the Interior, Bureau of Land Management, Washington, D.C.

*Attachments: ☐NONE ☒Location Map ☐Sketch Map ☐Continuation Sheet ☐Building, Structure, and Object Record ☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record ☐Artifact Record ☐Photograph Record ☐ Other (List):

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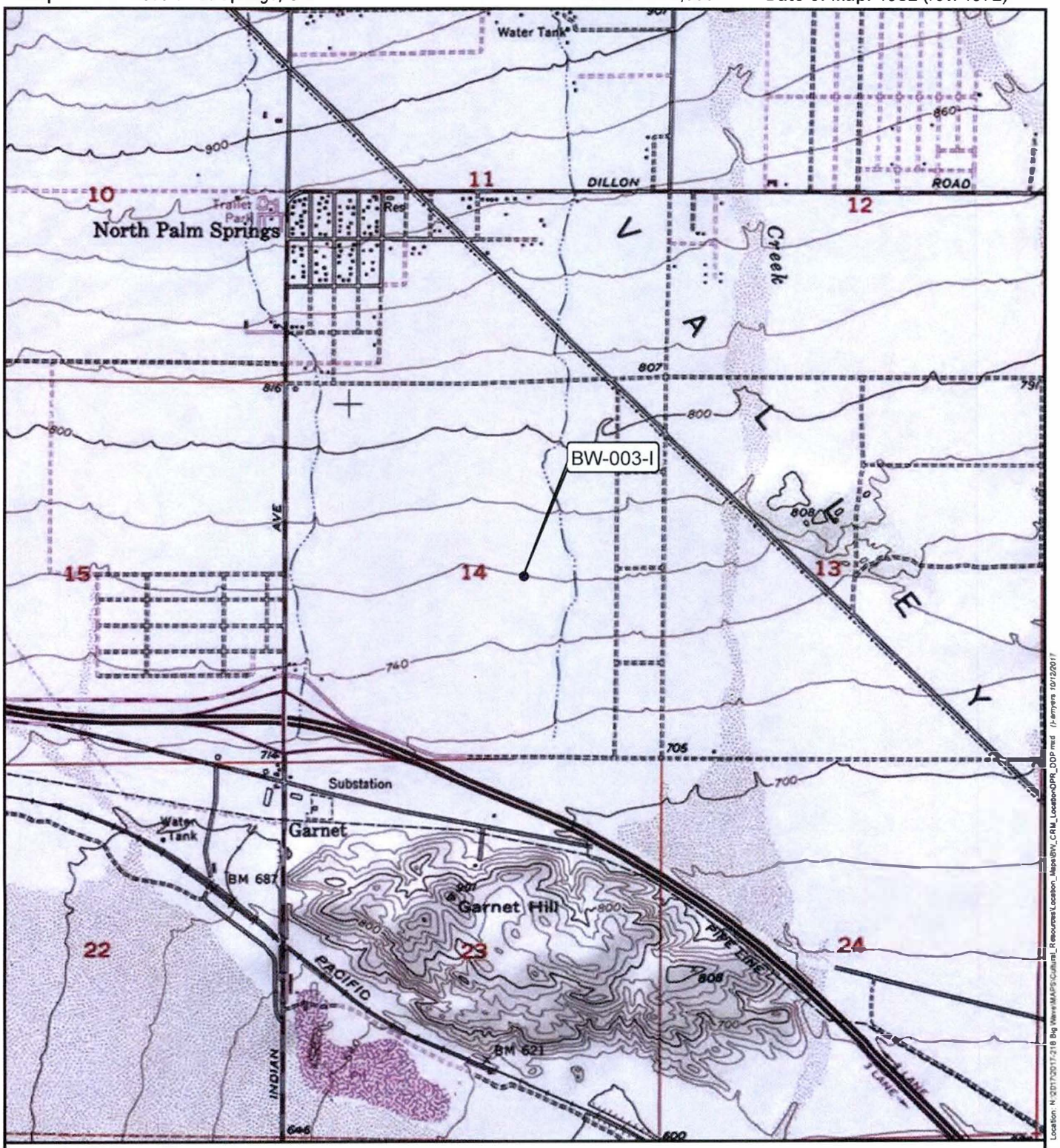
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

Primary # 33-29
HRI #
Trinomial

Page 2 **of** 2 ***Resource Name or #:** BW-003-I

***Map Name:** Desert Hot Springs, CA ***Scale:** 1:24,000 ***Date of Map:** 1952 (rev. 1972)



***Required Information**

0 1,000 2,000 4,000 Feet
0 250 500 1,000 Meters

ECORP Consulting, Inc.
ENVIRONMENTAL CONSULTANTS

DPR 523J (1/95)

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
PRIMARY RECORD

Primary #
HRI #
Trinomial #
NRHP Status Code 6Z
CA-RIV- 12881

Other Listings
Review Code Reviewer Date

*Resource Name or #: BW-005

P1. Other Identifier: None

***P2. Location:** ☒ **Not for Publication** ☐ **Unrestricted** ***a. County:** Riverside

***b. USGS 7.5' Quad:** Desert Hot Springs, California **Date:** 1952 (Photorevised 1972) T3S; R4E; NE ¼ of the SE ¼ of Sec 14; San Bernardino B. M.

c. Address: N/A City: Desert Hot Springs, CA Zip: 92240

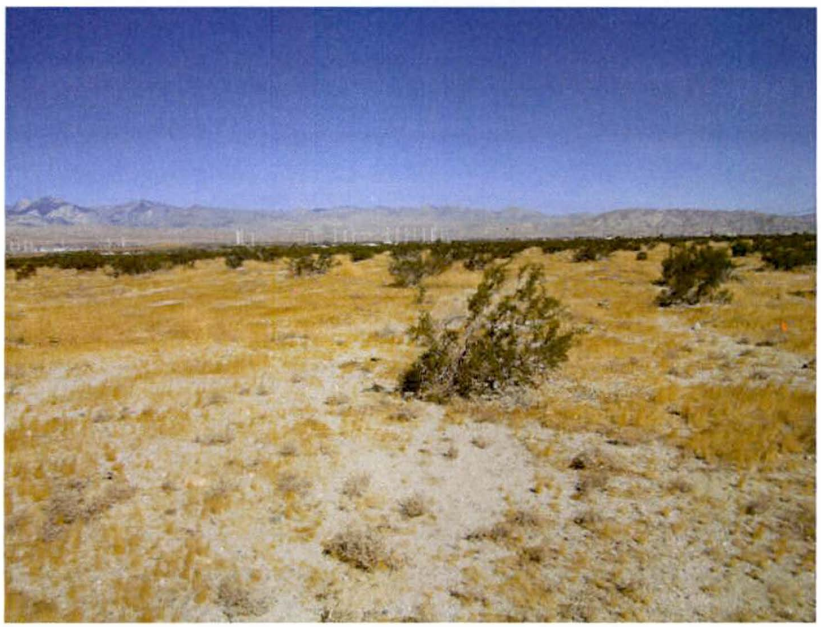
d. UTM: NAD 83; Zone: 11N 543215mE / 3752282mN

e. Other Locational Data: 755 feet above mean sea level

Directions: From the intersection of Interstate-10 and North Indian Canyon Drive in the City of Desert Hot Springs, proceed north on North Indian Canyon Drive for 0.01 mile to the intersection of North Indian Canyon Drive and 20th Avenue. At this point turn right (east) onto 20th Avenue and proceed east/southeast 0.83 mile. At this point the site is located 0.46 mile north on undeveloped desert landscape.

***P3a. Description:** This historic-period site consists of three crushed matchstick-filler (MSF) vent-hole cans, one complete MSF vent-hole can, one flat-top beverage can, one oil quart can and a single crushed cone-top beverage can. Matchstick-filler cans were manufactured from 1930 to 1975 and were typically used for packaging condensed or evaporated milk (Simonis n.d.). This site is located among intertwining northwest by southeast seasonal drainages and is likely out-of-situ.

***P3b. Resource Attributes:** AH4. Privies/dumps/trash scatters



***P4. Resources Present:** ☐Building ☐Structure ☐Object ☒Site ☐District ☐Element of District ☐Other (Isolates, etc.)

P5b. Description of Photo: BW-005, Overview, Facing Northwest. 9/25/2017. Photo # 005

***P6. Date Constructed/Age and Sources:**
☒Historic
☐Prehistoric ☐Both

***P7. Owner and Address:** Private Owner

***P8. Recorded by:**
Andrew Myers
ECORP Consulting, Inc.
215 N. 5th Street
Redlands, Ca 92373

***P9. Date Recorded:** September 25, 2017

***P10. Survey Type:** Pedestrian survey

***P11. Report Citation:**

Myers, Andrew and Wendy Blumel
2017 Cultural Resources Investigation for the Interstate West Industrial Park Project in the City of Desert Hot Springs, Riverside County, California. Prepared by ECORP Consulting, Inc., Redlands, California. Prepared for Interstate West Industrial, LLC, Palm Springs, California.

Simonis, Don
n.d. Condensed/Evaporated Milk Cans: Chronology for Dating Historical Sites. U.S. Department of the Interior, Bureau of Land Management, Washington, D.C.

***Attachments:** ☐NONE ☒Location Map ☐Sketch Map ☐Continuation Sheet ☐Building, Structure, and Object Record ☒Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record ☐Artifact Record ☐Photograph Record ☐ Other (List):

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DEPARTMENT OF PARKS AND RECREATION
Primary #
Trinomial

ARCHAEOLOGICAL SITE RECORD

CA-RIV- 12881

 *Resource Name or #: BW-005

*A1. Dimensions: a. Length N-S: 101 feet (31 meters) x b. Width E-W: 122 feet (37 meters)
Method of Measurement: ☐ Paced ☐ Taped ☐ Visual estimate ☒ Other: GPS
Method of Determination (Check any that apply.): ☒ Artifacts ☐ Features ☐ Soil ☐ Vegetation ☐ Topography ☐ Cut bank ☐ Animal burrow ☐ Excavation ☐ Property boundary ☐ Other (Explain):

Reliability of Determination: ☐ High ☒ Medium ☐ Low Explain: Regional Historical context and seasonal drainages identified via aerials.

Limitations (Check any that apply): ☒ Restricted access ☐ Paved/built over ☐ Site limits incompletely defined ☒ Disturbances ☐ Vegetation ☐ Other (Explain):

A2. Depth: ☐ None ☒ Unknown Method of Determination: Not Tested

*A3. Human Remains: ☐ Present ☐ Absent ☐ Possible ☒ Unknown (Explain): Not Tested

*A4. Features (Number, briefly describe, indicate size, list associated cultural constituents, and show location of each feature on sketch map.):

There are no identified features associated with this site.

*A5. Cultural Constituents (Describe and quantify artifacts, ecofacts, cultural residues, etc., not associated with features.):

Artifact 1 (A1) is a historic-period crushed match-stick-filler (MSF) can.

Artifact 2 (A2) is a historic-period crushed match-stick-filler (MSF) can.

Artifact 3 (A3) is a historic-period crushed match-stick-filler (MSF) can.

Artifact 4 (A4) is a historic-period complete match-stick-filler (MSF) can measuring 3 and 15/16 inches in height by 2 and 15/16 inches and is knife opened.

Artifact 5 (A5) is a flat-top beverage can.

Artifact 6 (A6) is a one-quart oil-can

Artifact 7 (A7) is a crushed cone-top beverage can

*A6. Were Specimens Collected? ☒ No ☐ Yes (If yes, attach Artifact Record or catalog and identify where specimens are curated.)

*A7. Site Condition: ☐ Good ☒ Fair ☐ Poor (Describe disturbances.): numerous intertwining northwest to southeast trending seasonal drainages were noted in the vicinity of the site.

*A8. Nearest Water (Type, distance, and direction.): Mission Creek, identified on the 7.5' USGS Desert Hot Springs Quadrangle is located 0.67 mile east of BW-005.

*A9. Elevation: 755 feet above mean sea level

A10. Environmental Setting (Describe culturally relevant variables such as vegetation, fauna, soils, geology, landform, slope, aspect, exposure, etc.): The site is located on open desert landscape. The primary vegetation community is creosote. The site itself is highly exposed on a slight northwest to southeast slope of sandy silt.

A11. Historical Information: No archival research was conducted as part of this study.

*A12. Age: ☐ Prehistoric ☐ Protohistoric ☐ 1542-1769 ☐ 1769-1848 ☐ 1848-1880 ☒ 1880-1914 ☒ 1914-1945 ☐ Post 1945 ☒ Undetermined **Describe position in regional prehistoric chronology or factual historic dates if known:** Matchstick-filler cans were manufactured from 1930 to 1975 and were typically used for packaging condensed or evaporated milk (Simonis n.d.)

A13. Interpretations (Discuss data potential, function[s], ethnic affiliation, and other interpretations): BW-005 appears to have diffused from a larger more discreet historic-period refuse deposit likely upslope its current location

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
Primary #
Trinomial

ARCHAEOLOGICAL SITE RECORD

CA-RIV- 12881

 *Resource Name or #: BW-005

A14. Remarks: BW-005 consists of a historic-period refuse scatter and cannot be tied to any significant impact on local history. The constituents of BW-005 are practical in nature and commonly found in the region. The constituents associated with the site would have contributed little to any broad pattern of local history. Therefore, the site is not recommended eligible for the California Register of Historical Resources (CRHR) under Criterion 1. There is no evidence that this site was part of a residence or had any strong association with the region. This specific site, therefore, did not contribute to standing of any individuals in the community. The subsequent owners of the site are not known to have been significant individuals in either Desert Hot Springs or North Palm Springs history. Thus, this site is not recommended eligible under Criterion 2. The site does not display unique characteristics, represent the work of a master, or display innovative technologies. As a result, the site is not recommended eligible under Criterion 3. Because there is no indication of any residential use of the property, this resource is not likely to contain significant subsurface archaeological deposits. Furthermore, the limited data potential of this resource, which is limited to common and ubiquitous items in the area, has been nearly exhausted by the level of recording and research that has already been conducted. The site is highly unlikely to yield any additional information to aid our understanding of the region's history. Therefore, the site is not recommended eligible for the CRHR under Criterion 4. Because the site does not appear to meet any of the eligibility criteria, the site is recommended as not eligible for the CRHR.

A15. References (Documents, informants, maps, and other references):

Myers, Andrew and Wendy Blumel
2017 Cultural Resources Investigation of an Approximately 100-acre Project Area in the City of Desert Hot Springs, Riverside County, California. Prepared by ECORP Consulting, Inc., Redlands, California. Prepared for Big Wave Holdings, LLC, Palm Springs, California.

Simonis, Don
n.d. Condensed/Evaporated Milk Cans: Chronology for Dating Historical Sites. U.S. Department of the Interior, Bureau of Land Management, Washington, D.C.

A16. Photographs (List subjects, direction of view, and accession numbers or attach a Photograph Record.):
23 Photos on-file Kept at: ECORP Consulting, Inc. 215 N Fifth Street, Redlands, California 92373

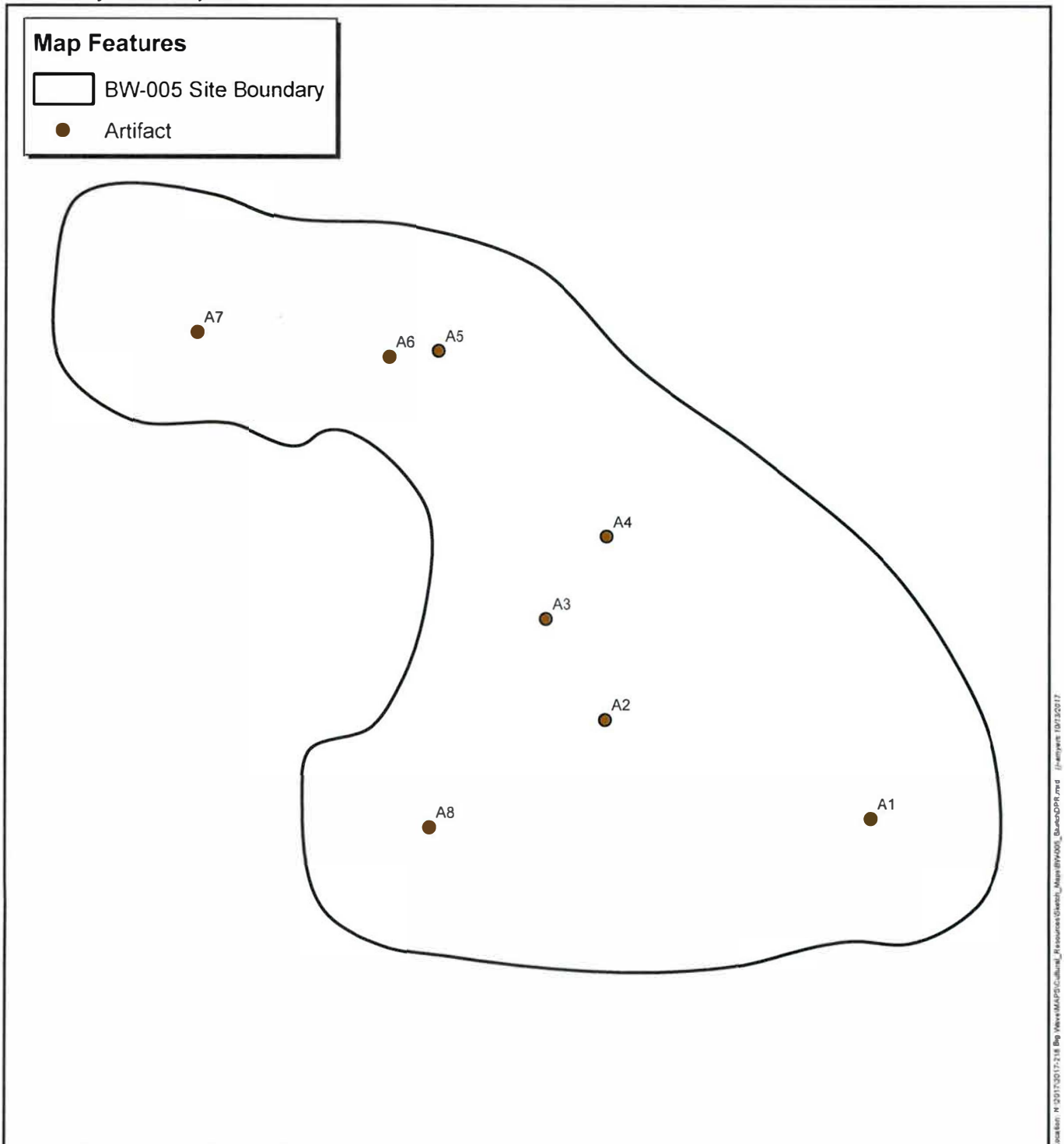
*A17. Form Prepared by: Andrew Myers Date: 10/12/2017
Affiliation and Address: ECORP Consulting, Inc. 215 N Fifth Street, Redlands, California 92373

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
SKETCH MAP

Primary #
HRI #
Trinomial CA-RIV- 12881

Page 4 of 5 ***Resource Name or #:** BW-005

***Drawn By:** Andrew Myers ***Date:** 09/25/2017



***Required Information**

0 5 10 20 Feet
0 1.5 3 6 Meters

ECORP Consulting, Inc.
ENVIRONMENTAL CONSULTANTS

DPR 523K (1/95)

33-23525

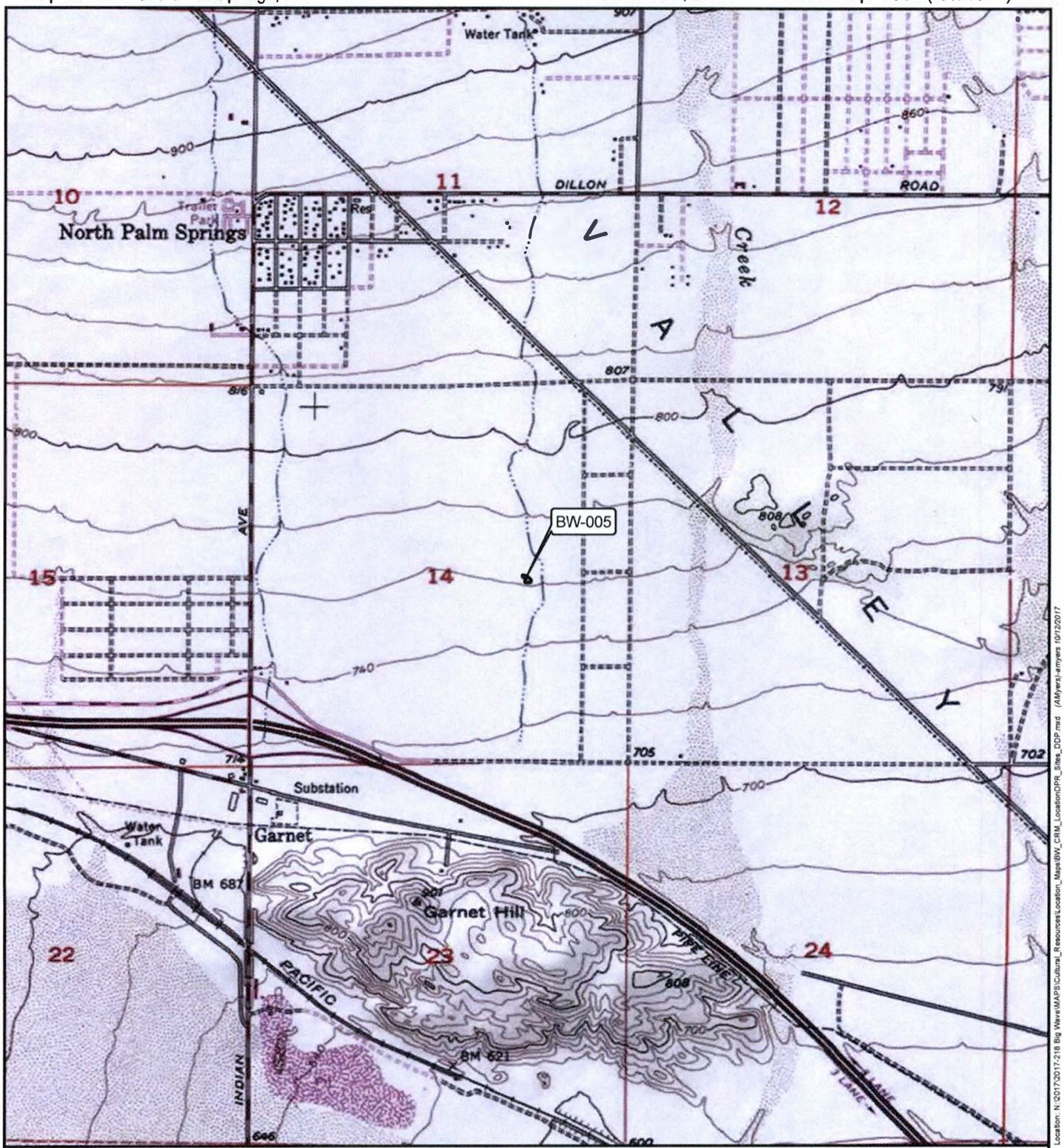
State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
LOCATION MAP

Primary #
HRI #
Trinomial CA-RIV-12887

Item 16.

Page 5 **of** 5 ***Resource Name or #:** BW-005

***Map Name:** Desert Hot Springs, CA ***Scale:** 1:24,000 ***Date of Map:** 1952 (rev. 1972)



Location: N:\2017\2017-218 Big Wave\MAPS\Cultural_Resources\Location_Maps\BW_CRM_LocationDPR_Sites_DDP.mxd (AMyers)-amyers 10/12/2017

***Required Information**

0 1,000 2,000 4,000 Feet
0 250 500 1,000 Meters

ECORP Consulting, Inc.
ENVIRONMENTAL CONSULTANTS

DPR 523J (1/95)

Appendix C: Correspondence with Native American Representatives

SACRED LANDS FILE & NATIVE AMERICAN CONTACTS LIST REQUEST

NATIVE AMERICAN HERITAGE COMMISSION
1550 Harbor Boulevard, Suite 100
West Sacramento, CA 95691
(916)373-3710
(916)373-5471 (Fax)
nahc@nahc.ca.gov

Project: Proposed Mission Springs Water District (MSWD) Groundwater Quality Protection Program, Assessment District 18 USACE Phasing Summary Project (CRM TECH No. 4271A)

County: Riverside

USGS Quadrangle Name: Desert Hot Springs and Seven Palms Valley, Calif.

Desert Hot Springs:
Area A: **Township** 2 South **Range** 4 East SB **BM; Section(s)** 23
Area D-3: **Township** 2 South **Range** 5 East SB **BM; Section(s)** 30
I-10 Corridor: **Township** 3 South **Range** 4 East SB **BM; Section(s)** 14, 15, 22, and 23
Seven Palms Valley:
Areas G, H, and I: **Township** 2 South **Range** 5 East SB **BM; Section(s)** 32
Areas J-2 and K: **Township** 2 South **Range** 5 East SB **BM; Section(s)** 33

Company/Firm/Agency: CRM TECH

Contact Person: Nina Gallardo

Street Address: 1016 E. Cooley Drive, Suite A/B

City: Colton, CA **Zip:** 92324

Phone: (909) 824-6400 **Fax:** (909) 824-6405

Email: ngallardo@crmtech.us

Project Description: The undertaking primarily entails the conversion of individual properties in specific areas of the MSWD service area from septic to sewer. The APE lies across approximately 2,237 acres of land in and near the City of Desert Hot Springs, Riverside County, California.

May 12, 2025

STATE OF CALIFORNIA Gavin Newsom, *Governor*

NATIVE AMERICAN HERITAGE COMMISSION

CHAIRPERSON
Reginald Pagaling
Chumash

VICE-CHAIRPERSON
Buffy McQuillen
Yokayo Pomo, Yuki, Nomlaki

SECRETARY
Sara Dutschke
Miwok

PARLIAMENTARIAN
Wayne Nelson
Luiseño

COMMISSIONER
Isaac Bojorquez
Ohlone-Costanoan

COMMISSIONER
Stanley Rodriguez
Kumeyaay

COMMISSIONER
Reid Milanovich
Cahuilla

COMMISSIONER
Bennae Calac
Pauma-Yuima Band of Luiseño Indians

COMMISSIONER
Vacant

ACTING EXECUTIVE SECRETARY
Steven Quinn

NAHC HEADQUARTERS
1550 Harbor Boulevard
Suite 100
West Sacramento,
California 95691
(916) 373-3710
nahc@nahc.ca.gov

May 28, 2025

Nina Gallardo
CRM TECH

Via Email to: ngallardo@crmtech.us

Re: Proposed Mission Springs Water District (MSWD): Groundwater Quality Protection Program Assessment District 18 USACE Phasing Summary Project, Riverside County

To Whom It May Concern:

As requested, a record search of the Native American Heritage Commission (NAHC) Sacred Lands File (SLF) was completed based on information submitted for the above referenced project. The results were negative. Please note that tribes do not always record their sacred sites in the SLF, nor are they required to do so. As such, a SLF search is not a substitute for consultation with all tribes that are traditionally and culturally affiliated with a project's geographic area.

Attached is a list of Native American tribes who may also have knowledge of cultural resources in the project area. This list should provide a starting place in locating areas of potential adverse impact within the proposed project area. Please contact all of those listed; if they cannot supply information, they may recommend others with specific knowledge. If within two weeks of notification, a response has not been received, the Commission requests that you follow-up with a telephone call or email to ensure that the project information was received.

If you receive notification of a change of address or phone number from a tribe, please notify the NAHC so that we can assure that our lists contain current information.

In addition to engaging in tribal consultation, you should consult the appropriate regional California Historical Research Information System (CHRIS) archaeological Information Center to determine whether it has information regarding the presence of recorded archaeological sites within the project area.

If you have any questions or need additional information, please contact me at Andrew.Green@nahc.ca.gov.

Sincerely,

Andrew Green

Andrew Green
Cultural Resources Analyst

Attachment

Native American Heritage Commission
Native American Contact List
Riverside County
5/28/2025

Tribe Name	Fed (F) Non-Fed (N)	Contact Person	Contact Address	Phone #	Fax #	Email Address	Cultural Affiliation	Counties
Agua Caliente Band of Cahuilla Indians	F	Lacy Padilla, Director of Historic Preservation/THPO	5401 Dinah Shore Drive Palm Springs, CA, 92264	(760) 333-5222	(760) 699-6919	ACBCI-THPO@aguacaliente.net	Cahuilla	Imperial, Riverside, San Bernardino, San Diego
Augustine Band of Cahuilla Indians	F	Tribal Operations,	84-001 Avenue 54 Coachella, CA, 92236	(760) 398-4722		info@augustinetribe-nsn.gov	Cahuilla	Imperial, Riverside, San Bernardino, San Diego
Cabazon Band of Cahuilla Indians	F	Doug Welmas, Chairperson	84-245 Indio Springs Parkway Indio, CA, 92203	(760) 342-2593	(760) 347-7880	jstapp@cabazonindians-nsn.gov	Cahuilla	Imperial, Riverside, San Bernardino, San Diego
Cahuilla Band of Indians	F	Erica Schenk, Chairperson	52701 CA Highway 371 Anza, CA, 92539	(951) 590-0942	(951) 763-2808	chair@cahuilla-nsn.gov	Cahuilla	Imperial, Los Angeles, Orange, Riverside, San Bernardino, San Diego
Cahuilla Band of Indians	F	BobbyRay Esparza, Cultural Director	52701 CA Highway 371 Anza, CA, 92539	(951) 763-5549		besparza@cahuilla-nsn.gov	Cahuilla	Imperial, Los Angeles, Orange, Riverside, San Bernardino, San Diego
Cahuilla Band of Indians	F	Anthony Madrigal, Tribal Historic Preservation Officer	52701 CA Highway 371 Anza, CA, 92539	(951) 763-5549		anthonymad2002@gmail.com	Cahuilla	Imperial, Los Angeles, Orange, Riverside, San Bernardino, San Diego
Los Coyotes Band of Cahuilla and Cupeño Indians	F	Ray Chapparosa, Chairperson	P.O. Box 189 Warner Springs, CA, 92086-0189	(760) 782-0711	(760) 782-0712		Cahuilla Cupeno	Imperial, Riverside, San Bernardino, San Diego
Morongo Band of Mission Indians	F	Robert Martin, Chairperson	12700 Pumarra Road Banning, CA, 92220	(951) 755-5110	(951) 755-5177	abrierty@morongo-nsn.gov	Cahuilla Serrano	Imperial, Kern, Los Angeles, Riverside, San Bernardino, San Diego
Morongo Band of Mission Indians	F	Ann Brierty, THPO	12700 Pumarra Road Banning, CA, 92220	(951) 755-5259	(951) 572-6004	abrierty@morongo-nsn.gov	Cahuilla Serrano	Imperial, Kern, Los Angeles, Riverside, San Bernardino, San Diego
Quechan Indian Tribe of the Fort Yuma Reservation	F	Jill McCormick, Historic Preservation Officer	P.O. Box 1899 Yuma, AZ, 85366-1899	(928) 261-0254		historicpreservation@quechantribe.com	Quechan	Imperial, Kern, Los Angeles, Riverside, San Bernardino, San Diego
Quechan Indian Tribe of the Fort Yuma Reservation	F	Jordan Joaquin, President, Quechan Tribal Council	P.O. Box 1899 Yuma, AZ, 85366-1899	(760) 919-3600		executivesecretary@quechantribe.com	Quechan	Imperial, Kern, Los Angeles, Riverside, San Bernardino, San Diego
Ramona Band of Cahuilla	F	Joseph Hamilton, Chairperson	P.O. Box 391670 Anza, CA, 92539	(951) 763-4105	(951) 763-4325	admin@ramona-nsn.gov	Cahuilla	Imperial, Riverside, San Bernardino, San Diego
Ramona Band of Cahuilla	F	John Gomez, Environmental Coordinator	P. O. Box 391670 Anza, CA, 92539	(951) 763-4105	(951) 763-4325	jgomez@ramona-nsn.gov	Cahuilla	Imperial, Riverside, San Bernardino, San Diego
San Manuel Band of Mission Indians	F	Alexandra McCleary, Senior Manager of Cultural Resources Management	26569 Community Center Drive Highland, CA, 92346	(909) 633-0054		alexandra.mccleary@sanmanuel-nsn.gov	Serrano	Kern, Los Angeles, Riverside, San Bernardino
Santa Rosa Band of Cahuilla Indians	F	Steven Estrada, Tribal Chairman	P.O. Box 391820 Anza, CA, 92539	(951) 659-2700	(951) 659-2228	sestrada@santarosa-nsn.gov	Cahuilla	Imperial, Los Angeles, Orange, Riverside, San Bernardino, San Diego
Santa Rosa Band of Cahuilla Indians	F	Mercedes Estrada, Cultural Director	P.O. Box 391820 Anza, CA, 92539	(951) 659-2700	(951) 659-2228	mestrada@santarosa-nsn.gov	Cahuilla	Imperial, Los Angeles, Orange, Riverside, San Bernardino, San Diego
Santa Rosa Band of Cahuilla Indians	F	Vanessa Minott, Tribal Administrator	P.O. Box 391820 Anza, CA, 92539	(951) 659-2700	(951) 659-2228	vminott@santarosa-nsn.gov	Cahuilla	Imperial, Los Angeles, Orange, Riverside, San Bernardino, San Diego
Serrano Nation of Mission Indians	N	Mark Cochrane, Co-Chairperson	P. O. Box 343 Patton, CA, 92369	(909) 578-2598		serranonation1@gmail.com	Serrano	Kern, Los Angeles, Riverside, San Bernardino
Serrano Nation of Mission Indians	N	Wayne Walker, Co-Chairperson	P. O. Box 343 Patton, CA, 92369	(253) 370-0167		serranonation1@gmail.com	Serrano	Kern, Los Angeles, Riverside, San Bernardino
Soboba Band of Luiseno Indians	F	Joseph Ontiveros, Tribal Historic Preservation Officer	P.O. Box 487 San Jacinto, CA, 92581	(951) 663-5279	(951) 654-4198	jontiveros@soboba-nsn.gov	Cahuilla Luiseno	Imperial, Los Angeles, Orange, Riverside, San Bernardino, San Diego
Soboba Band of Luiseno Indians	F	Jessica Valdez, Cultural Resource Specialist	P.O. Box 487 San Jacinto, CA, 92581	(951) 663-6261	(951) 654-4198	jvaldez@soboba-nsn.gov	Cahuilla Luiseno	Imperial, Los Angeles, Orange, Riverside, San Bernardino, San Diego
Torres-Martinez Desert Cahuilla Indians	F	Mary Belardo, Cultural Committee Vice Chair	P.O. Box 1160 Thermal, CA, 92274	(760) 397-0300		belardom@gmail.com	Cahuilla	Imperial, Riverside, San Bernardino, San Diego
Torres-Martinez Desert Cahuilla Indians	F	Gary Resvaloso, TM MLD	P.O. Box 1160 Thermal, CA, 92274	(760) 777-0365		grestmtm@gmail.com	Cahuilla	Imperial, Riverside, San Bernardino, San Diego
Torres-Martinez Desert Cahuilla Indians	F	Thomas Tortez, Chairperson	P.O. Box 1160 Thermal, CA, 92274	(760) 397-0300	(760) 397-8146	thomas.tortez@tmdci.org	Cahuilla	Imperial, Riverside, San Bernardino, San Diego

Native American Heritage Commission
Native American Contact List
Riverside County
5/28/2025

Tribe Name	Fed (F) Non-Fed (N)	Contact Person	Contact Address	Phone #	Fax #	Email Address	Cultural Affiliation	Counties
Torres-Martinez Desert Cahuilla Indians	F	Alesia Reed, Cultural Committee Chairwoman	P.O. Box 1160 Thermal, CA, 92274	(760) 397-0300		lisareed990@gmail.com	Cahuilla	Imperial, Riverside, San Bernardino, San Diego
Torres-Martinez Desert Cahuilla Indians	F	Abraham Becerra, Cultural Coordinator	P.O. Box 1160 Thermal, CA, 92274	(760) 397-0300		abecerra@tmdci.org	Cahuilla	Imperial, Riverside, San Bernardino, San Diego
Twenty-Nine Palms Band of Mission Indians	F	Christopher Nicosia, Cultural Resources Manager/THPO Manager	46-200 Harrison Place Coachella, CA, 92236	(760) 863-3972		christopher.nicosia@29palmsbomi-nsn.gov	Chemehuevi	Imperial, Inyo, Riverside, San Bernardino
Twenty-Nine Palms Band of Mission Indians	F	Nicolas Garza, Cultural Resources Specialist	46-200 Harrison Place Coachella, CA, 92236	(760) 863-2486		nicolas.garza@29palmsbomi-nsn.gov	Chemehuevi	Imperial, Inyo, Riverside, San Bernardino
Twenty-Nine Palms Band of Mission Indians	F	Sarah O'Brien, Tribal Archivist	46-200 Harrison Place Coachella, CA, 92236	(760) 863-2460		sobrien@29palmsbomi-nsn.gov	Chemehuevi	Imperial, Inyo, Riverside, San Bernardino

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resources Code and Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed Mission Springs Water District (MSWD): Groundwater Quality Protection Program Assessment District 18 USACE Phasing Summary Project, Riverside County.

Record: PROJ-2025-002854
Report Type: List of Tribes
Counties: Riverside
NAHC Group: All

CRM TECH
1016 E. Cooley Drive, Suite A/B
Colton, CA 92324

June 3, 2025

RE: Proposed Mission Springs Water District:
Groundwater Quality Protection Program
Assessment District 18 USACE Phasing Summary
Near and In the City of Desert Hot Springs
Riverside County, California
CRM TECH Contract # 4271A

Dear Tribal Representative:

I am writing to bring your attention to an ongoing Section 106/CEQA-Plus study for the project referenced above. The Area of Potential Effects (APE) for the undertaking lies within approximately 2,237 acres of land, proposing new sewer pipeline alignments and connections that will mainly be located within existing street rights-of-way, that will connect to the individual parcels within the Mission Springs Water District (MSWD) service areas scattered around and in the City of Desert Hot Springs, Riverside County, California. The accompanying maps, based on the USGS Desert Hot Springs, Calif., 7.5'quadrangle, depicts the locations of the APE, Areas A-I within Section 23, T2SR4E, D-3 within Section 30, T2SR5E, and I-10 within Sections 14, 15, 22, and 23, T3SR4E, SBBM. The accompanying map, based on the USGS Seven Palms Valley, Calif., 7.5'quadrangle, depicts the locations of the APE, Areas # G, H and I within Section 32, J-2 and K within Section 33, T2SR5E, SBBM.

The Native American Heritage Commission reports in a letter dated May 28, 2025, that Sacred Lands File search was negative for tribal cultural resources in the vicinity but recommends contacting local Native American groups for any additional information (see attached). Therefore, as part of the cultural resources study for this project, I am writing to request your input on potential Native American cultural resources in or near the APE, and/or any other information to consider during the cultural resources investigations. Any information or concerns may be forwarded to CRM TECH by telephone, e-mail, facsimile, or standard mail. Requests for documentation or information we cannot provide will be forwarded to our client and/or the lead agencies for the project, namely the U. S. Army Corps of Engineers and the Mission Springs Water District.

We would also like to clarify that, as the cultural resources consultant for the project, CRM TECH is not involved in the AB 52-compliance process or in government-to-government consultations. The purpose of this letter is to seek any information that you may have to help us determine if there are cultural resources within and/ or near the APE area that we should be aware of and to help us assess the sensitivity of the APE. Thank you for your time and effort in addressing this important matter.

Respectfully,



Nina Gallardo
Project Archaeologist/Native American Liaison
Email: ngallardo@crmtech.us
Encl.: NAHC response letter and project location maps

From: Jill Mccormick <historicpreservation@quechantribe.com>
Sent: June 5, 2025 at 04:02 AM
To: Eulices Lopez <elopez@crmtech.us>
Subject: Re: [EXTERNAL]:Re: NA Scoping Letter for the Proposed Mission Springs Water District Groundwater Quality Protection Program Assessment District 18, near and in the City of Desert Hot Springs, Riverside Co. (CRM TECH # 4271A)

Good morning,

This email is to inform you that the Historic Preservation Office of the Ft. Yuma Quechan Tribe does not wish to comment on this project. We defer to the local Tribes and support their determinations on this matter.

Jill

H. Jill McCormick, M.A.
Historic Preservation Office
Ft. Yuma Quechan Indian Tribe
P.O. Box 1899
Yuma, AZ 85366-1899
Office: 760-919-3631
Cell: 928-920-6521

From: THPO Consulting <ACBCI-THPO@aguacaliente.net>
Sent: Friday, June 6, 2025 at 10:52 AM
To: elopez@crmtech.us <elopez@crmtech.us>
Subject: Proposed Mission Springs Water District Groundwater Quality Protection Program, Assessment District 18, near and in the City of Desert Hot Springs, Riverside CO. (CRM TECH No. 4271A)

Hello Eulices,

Attached to this email is a formal response to the scoping letter. I did not include the survey as part of the recommendations since its already confirmed.

If you have any questions about the attached letter please feel free to contact me.

Best Regards,
Luz Salazar
Cultural Resources Analyst
lsalazar@aguacaliente.net
C: (760) 423-3148 | D: (760) 883-1137
5401 Dinah Shore Drive, Palm Springs, CA 92264

AGUA CALIENTE BAND OF CAHUILLA INDIANS
TRIBAL HISTORIC PRESERVATION

03-067-2025-001

June 06, 2025

[VIA EMAIL TO:elopez@crmtech.us]
CRM TECH
Eulices Lopez
1016 E. Cooley Drive, Ste. A/B
Colton, CA Y92324

Re: Proposed Mission Springs Water District Groundwater Quality Protection Program, Assessment District 18, near and in the City of Desert Hot Springs, Riverside CO. (CRM TECH No. 4271A)

Dear Eulices Lopez,

The Agua Caliente Band of Cahuilla Indians (ACBCI) appreciates your efforts to include the Tribal Historic Preservation Office (THPO) in the Groundwater Quality Protection Program Assessment District USACE Phasing Summary project. The project area is not located within the boundaries of the ACBCI Reservation. However, it is within the Tribe's Traditional Use Area. For this reason, the ACBCI THPO requests the following:

*A copy of the records search with associated survey reports and site records from the information center.

*Copies of any cultural resource documentation (report and site records) generated in connection with this project.

* There are several TCR's adjacent to the project boundaries.

Again, the Agua Caliente appreciates your interest in our cultural heritage. If you have questions or require additional information, please call me at (760) 883-1137. You may also email me at ACBCI-THPO@aguacaliente.net.

Cordially,

Luz Salazar
Cultural Resources Analyst
Tribal Historic Preservation Office
AGUA CALIENTE BAND
OF CAHUILLA INDIANS

5401 DINAH SHORE DRIVE, PALM SPRINGS, CA 92264
T 760/699/6800 F 760/699/6924 WWW.AGUACALIENTE-NSN.GOV

From: Raylene Borrego <Raylene.Borrego@sanmanuel-nsn.gov>
Sent: Monday, June 9, 2025 at 12:52 PM
To: Eulices Lopez <elopez@crmtech.us>
Cc: Ngallardo <ngallardo@crmtech.us>
Subject: Response to Information Request: Proposed Mission Springs Water District Groundwater Quality Protection Program Assessment District 18, near and in the City of Desert Hot Springs, Riverside Co. (CRM TECH # 4271A)

Hello Eulices,

Thank you for contacting the Yuhaaviatam of San Manuel Nation (YSMN, formerly known as the San Manuel Band of Mission Indians) concerning the above-mentioned proposed project area. San Manuel appreciates the opportunity to review the project documentation received by the Cultural Resources Management Department on June 3rd, 2025. Based on our current knowledge, the proposed project area has a low sensitivity for cultural resources. However, the proposed project is located within Serrano Ancestral Territory and is therefore of interest to the Tribe. As such, YSMN will still wish to engage in government-to-government consultation pursuant to AB 52, should this project be subject to CEQA review.

Thank you again for your correspondence. If you have any additional questions or comments, please reach out to me at your earliest convenience.

Kind Regards,

Raylene

Raylene Borrego
Cultural Resources Technician
Raylene.Borrego@sanmanuel-nsn.gov
O:(909) 864-8933 x 50-2035
M:(909) 737-3349
26569 Community Center Dr Highland, California 92346

AUGUSTINE BAND OF CAHUILLA INDIANS
84-001 AVENUE 54 COACHELLA, CA 92236 | T: 760-398-4722 F: 760-369-7161
TRIBAL CHAIRPERSON: AMANDA AUGUSTINE TRIBAL TREASURER: WILLIAM VANCE

June 17, 2025

Nina Gallardo
Project Archaeologist/Native American Liaison
1016 E. Cooley Drive, Suite A/B
Colton, CA 92324

Re: Proposed Mission Springs Water District: Groundwater Quality Protection Program Assessment District 18 USACE Phasing Summary Near and in the City of Desert Hot Springs Riverside County, California CRM Tech Contract #471A

Dear Ms. Gallardo

Thank you for contacting the Augustine Band of Cahuilla Indians about the proposed project**.** We appreciate your consideration of the cultural resources in the project area.

At this time, we are not aware of any specific cultural resources within the project area that would be affected by the proposed development. Therefore, we do not believe that formal consultation is necessary at this stage.

Thank you once again for your attention to this important matter.

Very truly yours,

Analise Perez

Analise Perez, Tribal Executive Assistant
Augustine Band of Cahuilla Indians



TWENTY-NINE PALMS BAND OF MISSION INDIANS
46-200 Harrison Place, Coachella, CA 92236. Ph. 760.863.2444. Fax: 760.863.3449

July 11, 2025

Nina Gallardo, Project Archaeologist
CRM Tech
1016 E. Cooley Drive, Suite A/B
Colton, CA 92324

RE: Proposed Mission Springs Water District: Groundwater Quality Protection Program. Assessment District 18 USACE Phasing Summary. CRM TECH Contract #4271A

Dear Ms. Gallardo:

This letter is regarding a consultation for Proposed Mission Springs Water District: Groundwater Quality Protection Program - Assessment District 18 USACE Phasing Summary. The Area of Potential Effects (APE) for the undertaking lies within approximately 2,237 acres of land, proposing new sewer pipeline alignments and connections that will mainly be located within existing street rights-of-way, that will connect to the individual parcels within the Mission Springs Water District (MSWD) service areas scattered around and in the City of Desert Hot Springs, Riverside County, California.

After reviewing the proposed project, the Twenty-Nine Palms Band of Mission Indians (Tribe) has determined: The project is within the Chemehuevi Traditional Use Area (TUA). Presently, no known cultural resources are located within the project APE, but there exists the possibility of surface and/or buried archaeological materials. The Tribe requests that the agency follow specific conditions for all cultural resources on any developmental plans or entitlement applications.

Additionally, the Tribe and THPO request the following: The Tribe and THPO look forward to working with CRM Tech on this project. This letter is not intended to be considered government to government consultation; it is a communication of possible concerns or comments regarding the project. Additional emails, letters, phone calls, virtual meetings, or in-person meetings may be requested. If you have any questions, please do not hesitate to contact the Tribal Historic Preservation Office at (760) 863-2486 or email at Nicolas.Garza@29Palmsbomi-nsn.gov.

Sincerely,

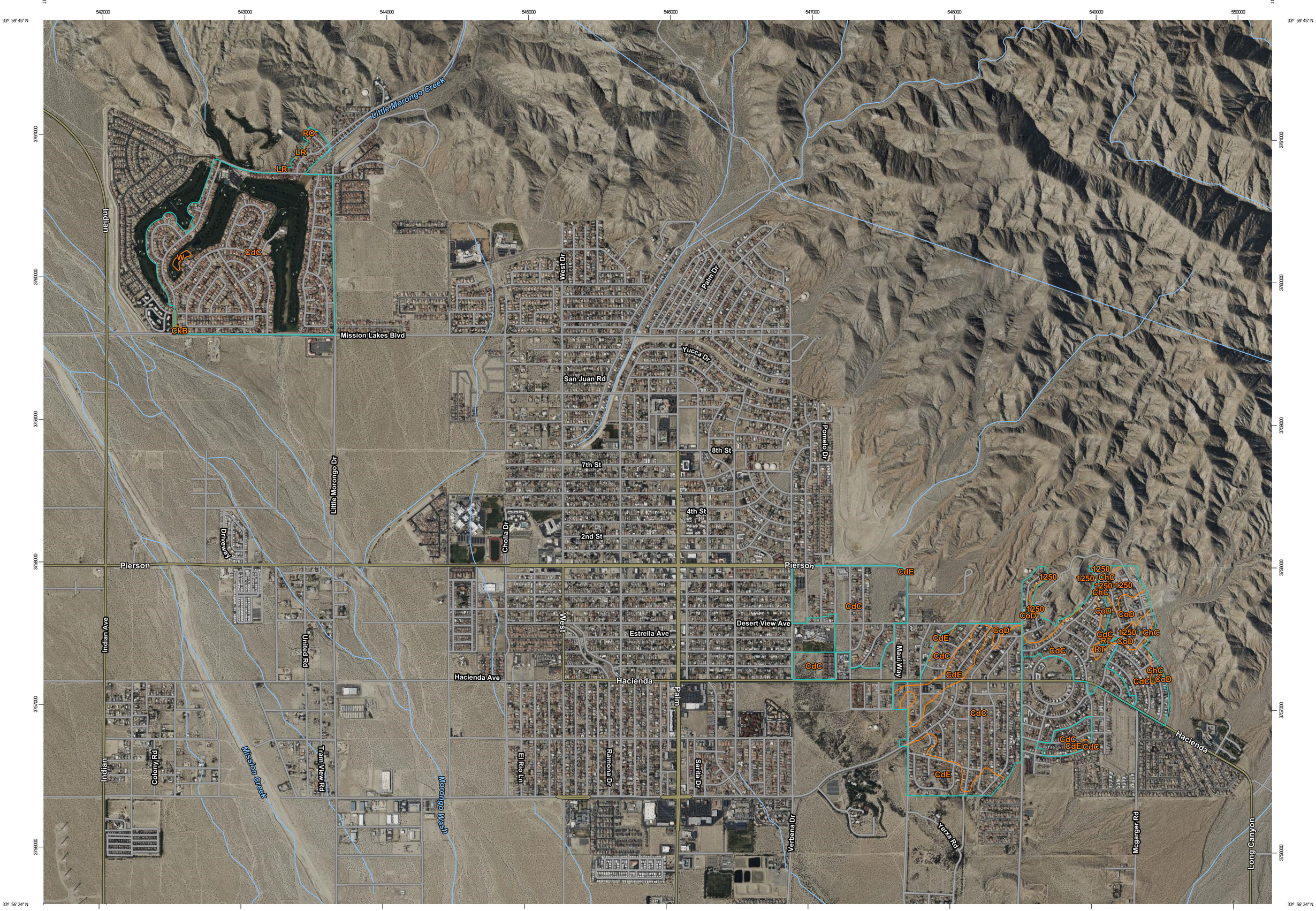
Darrell Mike
Chairman, Twenty-Nine Palms Band of Mission Indians

Telephone Log

Name	Tribe/Affiliation	Telephone Contacts	Note
Lacy Padilla, Director of Historic Preservation/THPO	Agua Caliente Band of Cahuilla Indians	None	Luz Salazar, Cultural Resources Analyst, responded in a letter dated June 6, 2025 (copy attached).
Tribal Operations	Augustine Band of Cahuilla Indians	10:12 am, June 17, 2025	Analise Perez, Tribal Executive Assistant, responded in a letter dated June 17, 2025 (copy attached).
Michael Mirelez, Cultural Director	Cabazon Band of Cahuilla Indians	10:15 am, June 17, 2025 10:46 am, June 24, 2025	Left messages; no response to date.
BobbyRay Esparza, Cultural Director	Cahuilla Band of Indians	10:17 am, June 17, 2025 10:50 am, June 24, 2025	Left messages; no response to date.
Ray Chapparosa, Chairman	Los Coyotes Band of Cahuilla and Cupeño Indians	10:20 am, June 17, 2025 10:53 am, June 24, 2025	Left messages; no response to date.
Ann Brierty, THPO	Morongo Band of Mission Indians	10:30 am, June 17, 2025 10: 55 am, June 24, 2025	Ms. Brierty stated that she would review the letter and respond later; no further response to date.
Jill McCormick, Historic Preservation Officer	Quechan Indian Tribe of the Fort Yuma Reservation	None	Ms. McCormick responded by email on June 5, 2025 (copy attached).
John Gomez, Environmental Coordinator	Ramona Band of Cahuilla	10:33 am, June 17, 2025 10:58 am, June 24, 2025	Left messages; no response to date.
Alexandra McCleary, Senior Manager of Cultural Resources Management	San Manuel Band of Mission Indians	None	Raylene Borrego, Cultural Resources Technician, responded by email on June 9, 2025 (copy attached).
Vanessa Minott, Tribal Administrator	Santa Rosa Band of Cahuilla Indians	10:38 am, June 17, 2025 11:00 am, June 24, 2025	Ms. Minott stated that the tribe had no comment regarding this undertaking.
Wayne Walker, Co-Chairperson	Serrano Nation of Mission Indians	10:41 am, June 17, 2025 11:03 am, June 24, 2025	Left voice messages; no response to date.
Jessica Valdez, Cultural Resource Specialist	Soboba Band of Luiseno Indians	10:43 am, June 17, 2025	Ms. Valdez stated that the tribe would defer to the Agua Caliente Band of Cahuilla Indians and asked CRM TECH to inform Agua Caliente of their comment.
Abraham Becerra, Cultural Coordinator	Torres Martinez Desert Cahuilla Indians	10:45 am, June 17, 2025	Mr. Becerra stated that the tribe would defer to the Agua Caliente Band of Cahuilla Indians.
Christopher Nicosia, Cultural Resources Manager/THPO Manager	Twenty-Nine Palms Band of Mission Indians	10:50 am, June 17, 2025 11: 06 am, June 24, 2025	Darrel Mike, Tribal Chairman, responded in a letter dated July 11, 2025 (copy attached).

APPENDIX 4

Soil Map—Riverside County, Coachella Valley Area, California (MS-306)



Map Scale: 1:17,400 if printed on C landscape (22" x 17") sheet.

N

Meters: 0 250 500 1000 1500

Feet: 0 500 1000 2000 3000

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 11N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Riverside County, Coachella Valley Area, California
Survey Area Data: Version 18, Sep 8, 2025

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

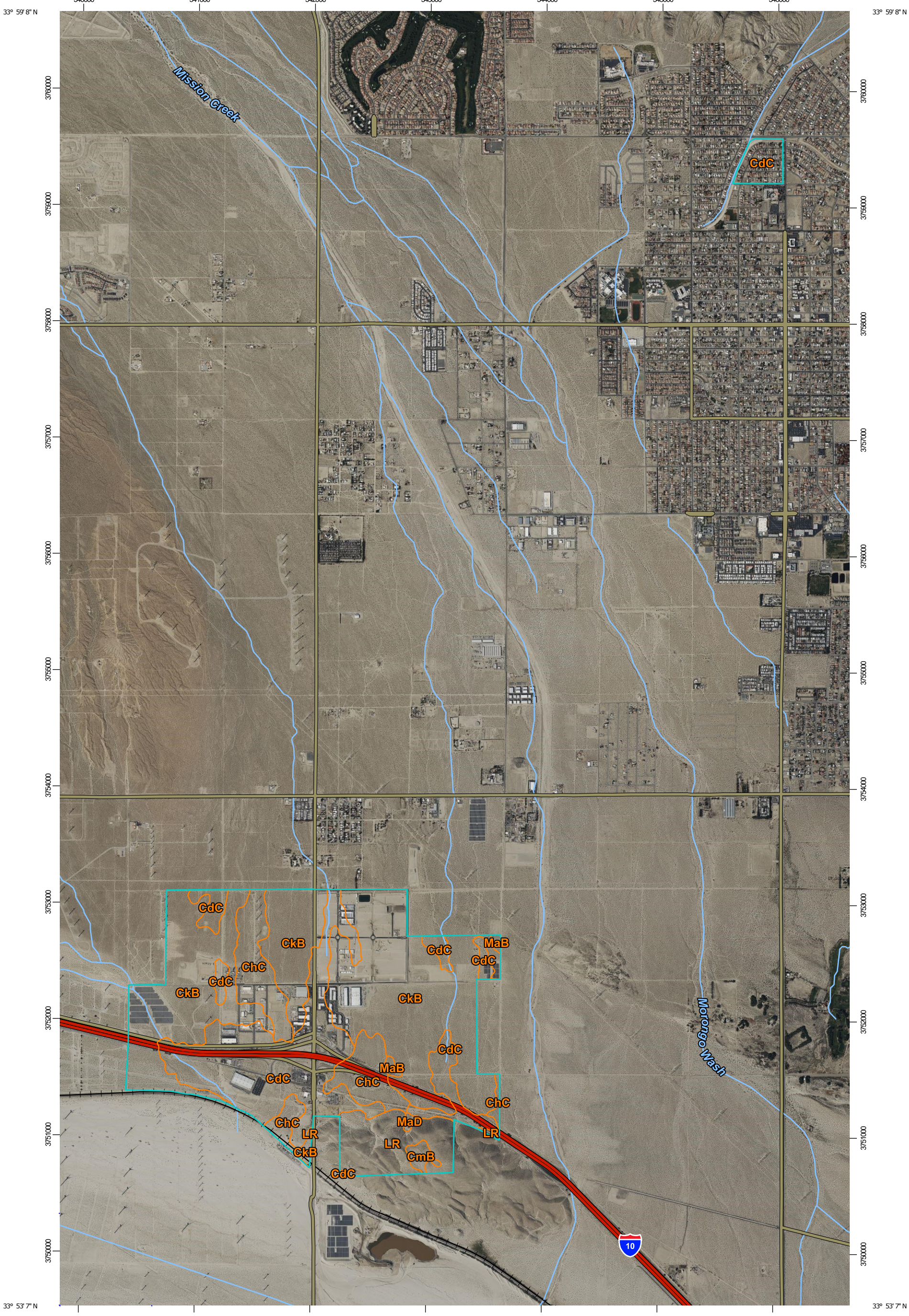
Date(s) aerial images were photographed: Mar 15, 2022—May 28, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
1250	Ironlung-Rock outcrop complex, 30 to 75 percent slopes	25.5	3.0%
CdC	Carsitas gravelly sand, 0 to 9 percent slopes	702.8	82.6%
CdE	Carsitas gravelly sand, 9 to 30 percent slopes	68.6	8.1%
ChC	Carsitas cobbly sand, 2 to 9 percent slopes	6.7	0.8%
CkB	Carsitas fine sand, 0 to 5 percent slopes	1.0	0.1%
CoD	Chuckawalla very gravelly sandy clay loam, 5 to 15 percent slopes	40.5	4.8%
LR	Lithic Torripsamments-Rock outcrop complex	0.5	0.1%
RO	Rock outcrop	0.9	0.1%
RT	Rock outcrop-Lithic Torripsamments complex	2.7	0.3%
W	Water	1.6	0.2%
Totals for Area of Interest		**850.8**	**100.0%**

Soil Map—Riverside County, Coachella Valley Area, California
(MS-302 2)



Map Scale: 1:31,200 if printed on B portrait (11" x 17") sheet.

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Meters: 0 450 900 1800 2700

Feet: 0 1500 3000 6000 9000

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 11N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

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- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

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The soil surveys that comprise your AOI were mapped at 1:24,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

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This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Riverside County, Coachella Valley Area, California
Survey Area Data: Version 18, Sep 8, 2025

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Mar 15, 2022—May 28, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
CdC	Carsitas gravelly sand, 0 to 9 percent slopes	434.3	28.6%
ChC	Carsitas cobbly sand, 2 to 9 percent slopes	165.0	10.9%
CkB	Carsitas fine sand, 0 to 5 percent slopes	786.5	51.7%
CmB	Carsitas variant, 2 to 5 percent slopes	10.8	0.7%
LR	Lithic Torripsamments-Rock outcrop complex	114.4	7.5%
MaB	Myoma fine sand, 0 to 5 percent slopes	6.3	0.4%
MaD	Myoma fine sand, 5 to 15 percent slopes	3.0	0.2%
Totals for Area of Interest		**1,520.3**	**100.0%**

APPENDIX 5

CRM TECH
1016 E. Cooley Drive, Suite A/B
Colton, CA 92324

MEMORANDUM

Date: November 3, 2025; updated December 22, 2025
From: Bai "Tom" Tang, Principal, CRM TECH
To: Kaitlyn Dodson-Hamilton, Vice-President, Tom Dodson and Associates
Subject: Paleontological Resources Sensitivity Assessment: Mission Springs Water District (MSWD) Septic to Sewer Update Project, in and near the City of Desert Hot Springs, Riverside County, California

Dear Ms. Dodson-Hamilton:

At your request, CRM TECH has completed a paleontological resource sensitivity assessment on the area of potential effects (APE) for the proposed Mission Springs Water District (MSWD) Septic to Sewer Update Project in and near the City of Desert Hot Springs, Riverside County, California (Figs. 1-9). As a part of the MSWD Groundwater Quality Protection Program, the project proposes the installation of approximately 142,000 linear feet (26.9 miles) of 8-inch sewer main pipelines and an estimated total of 2,500 4- to 6-inch service laterals along the routes, as well as the abatement of more than 2,000 on-site septic tanks. This study is a part of the environmental review process for the project, as required by the lead public agency, namely the MSWD, pursuant to the California Environmental Quality Act (CEQA). The project may involve federal funding administered by the U.S. Army Corps of Engineers (USACE), which would mandate compliance with the National Environmental Policy Act (NEPA) as well.

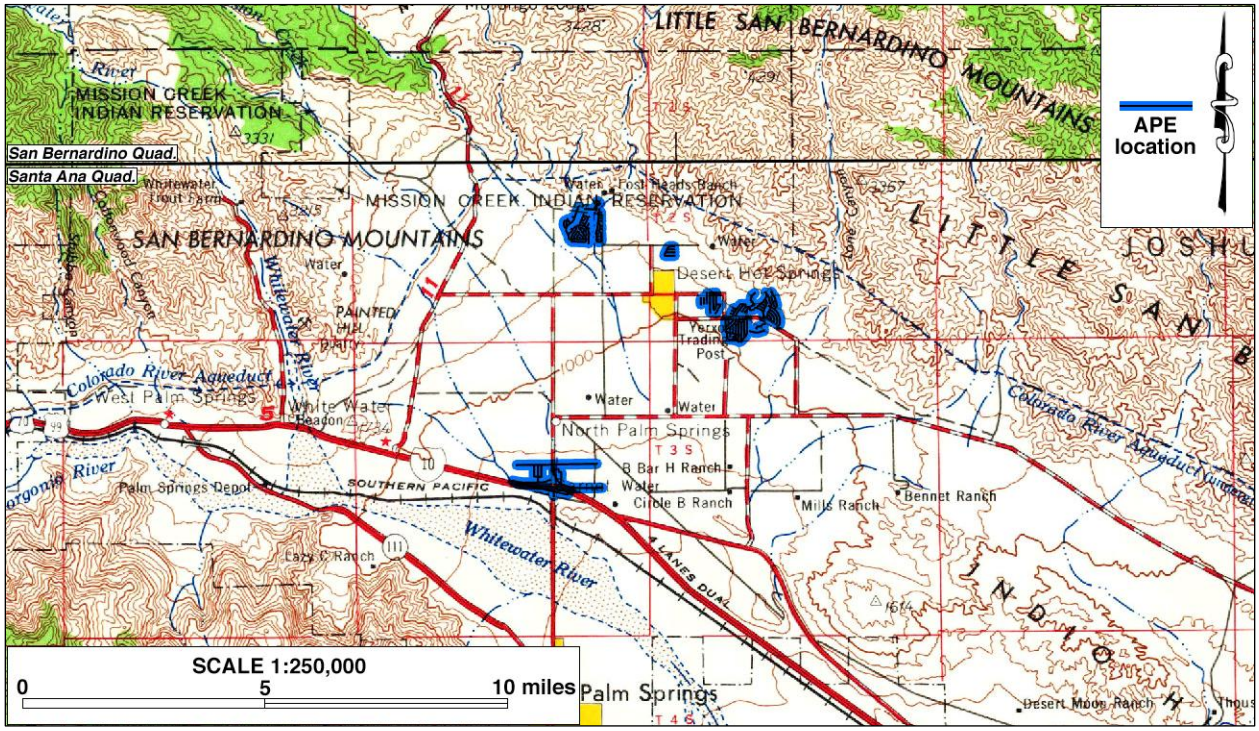


Figure 1. Project vicinity. Based on USGS San Bernardino and Santa Ana, Calif., 120'x60' quadrangles.

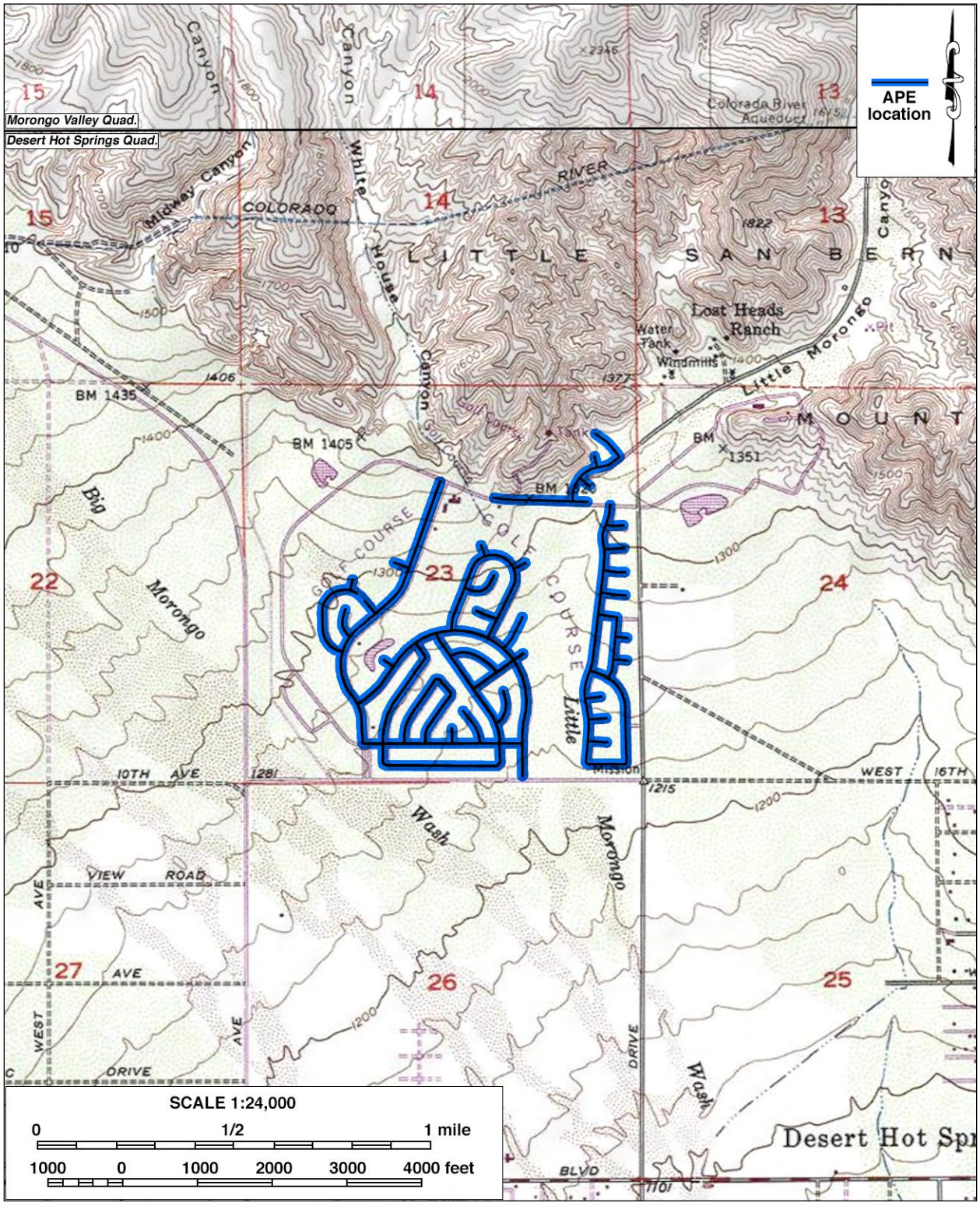


Figure 2. Location and configuration of the APE (Area A). Based on USGS Desert Hot Springs and Morongo Valley, Calif., 7.5' quadrangles.

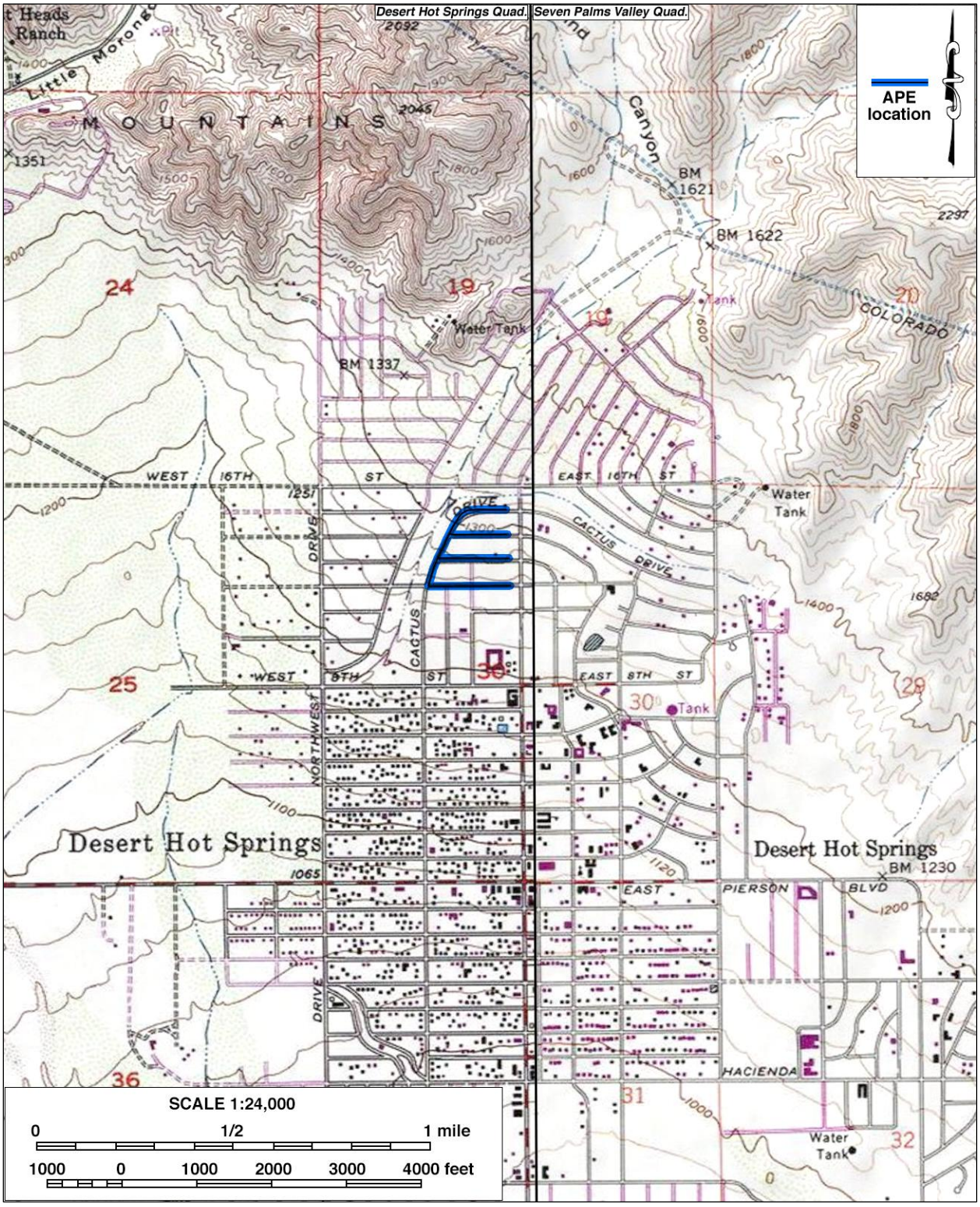


Figure 3. Location and configuration of the APE (Area D-3). Based on USGS Desert Hot Springs and Seven Palms Valley, Calif., 7.5' quadrangles.

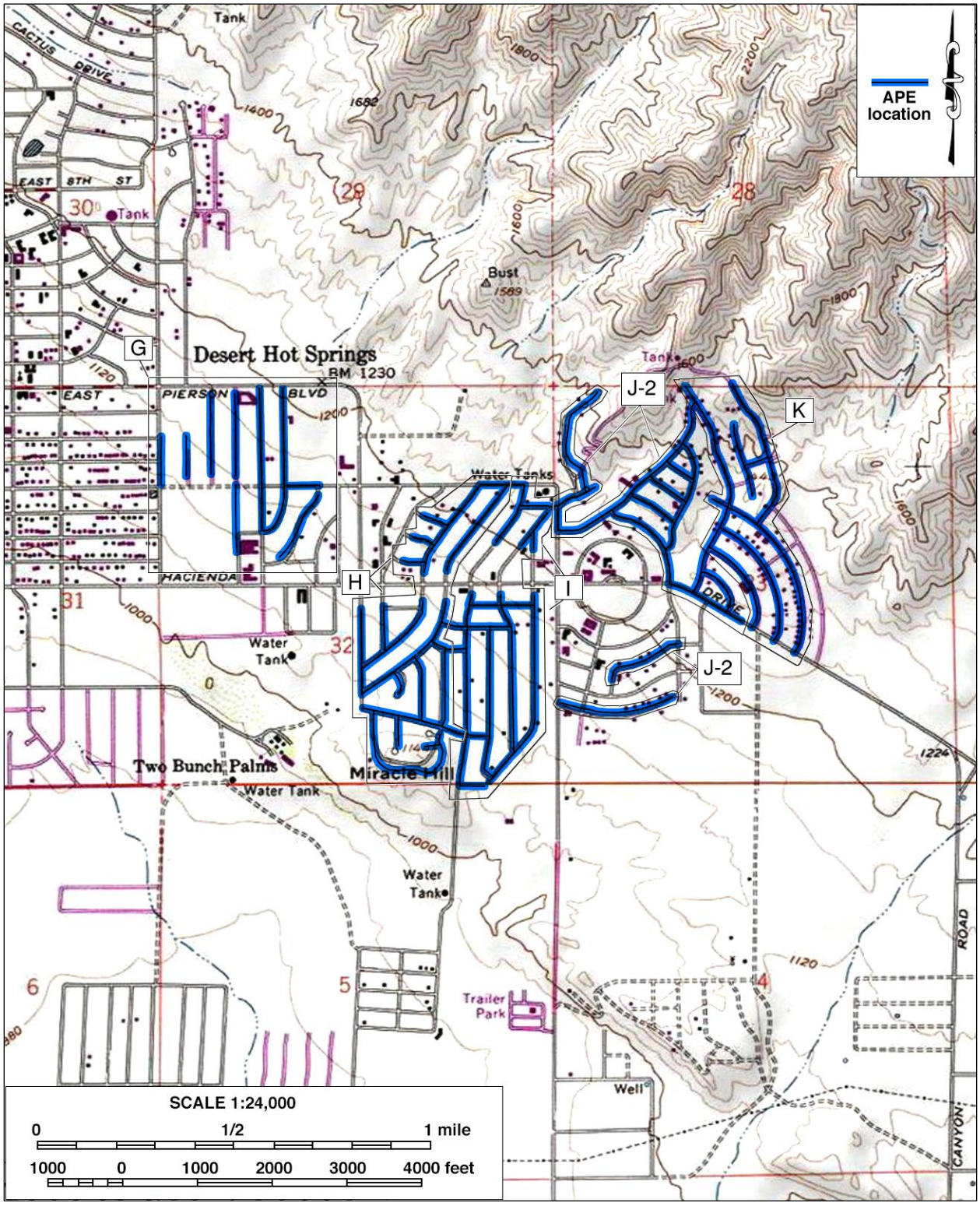


Figure 4. Location and configuration of the APE (Areas G, H, I, J-2 and K). Based on USGS Seven Palms Valley, Calif., 7.5' quadrangle.

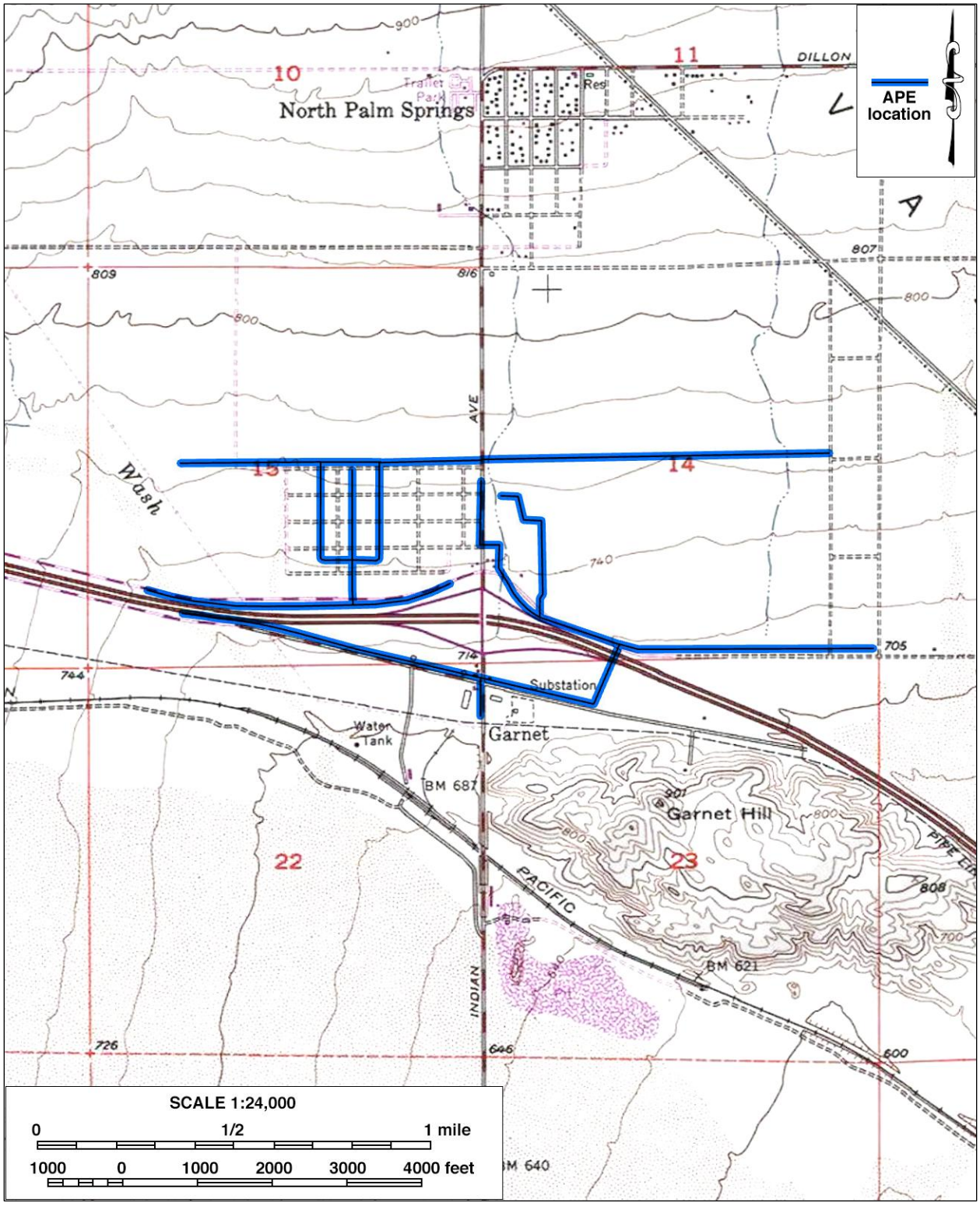


Figure 5. Location and configuration of the APE (I-10 Corridor). Based on USGS Desert Hot Springs, Calif., 7.5' quadrangle.



Figure 6. Satellite image of the APE (Area A).



Figure 7. Satellite image of the APE (Area D-3).

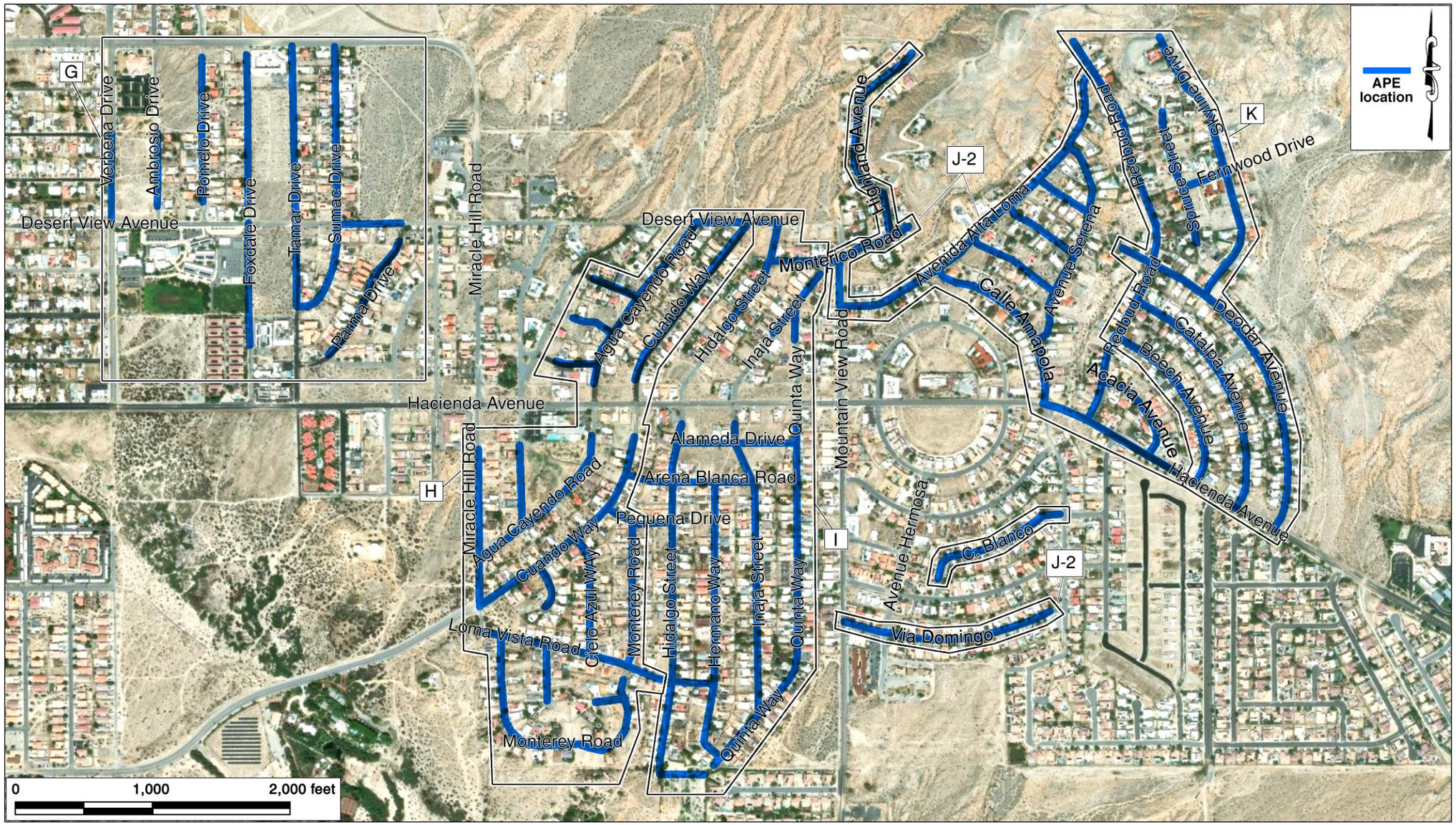


Figure 8. Satellite image of the APE (Areas G, H, I, J-2 and K).

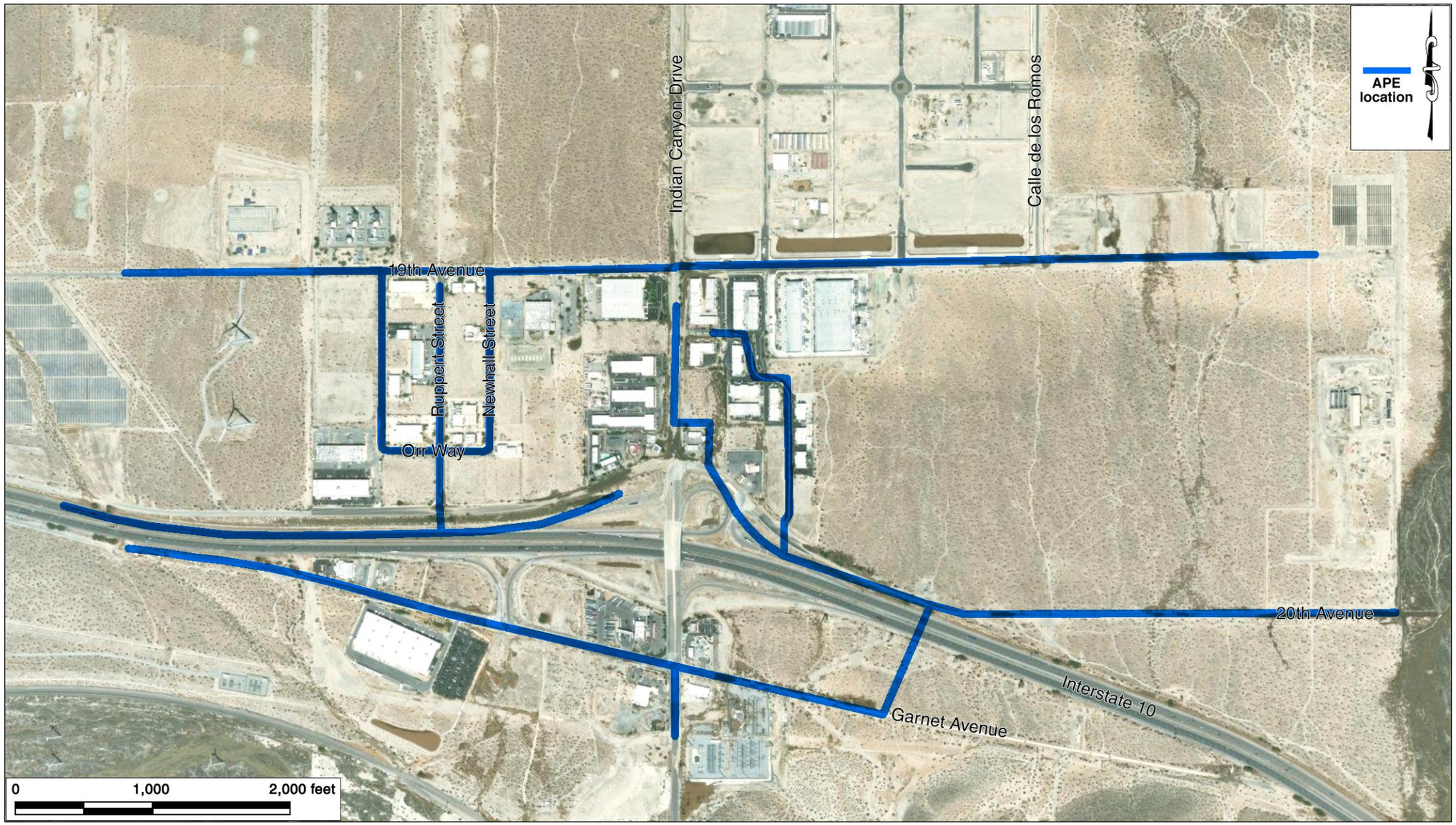


Figure 9. Satellite image of the APE (I-10 Corridor).

The APE is delineated to encompass the maximum extent of ground disturbance required for the implementation of the project. The horizontal extent of the APE includes the proposed 26.9 linear miles of sewer main pipeline alignments within roadways and existing rights-of-way as well as the sites of the 2,500 service laterals and the septic tanks. In general, the portion of the APE for future laterals and septic tank abatement coincides with the portions of the individual parcels lying immediately adjacent to the sewer main pipeline alignments, between the public rights-of-way and the buildings. The vertical extent of the APE, representing the maximum depth of excavation required for pipeline installation, is estimated to range from seven to ten feet below surface for the sewer mains and from four to six feet for the service laterals but may reach up to 15 feet in some areas due to the natural terrain or to cross under existing drainage channels.

The APE comprises eight designated areas at four separate locations along the northern, eastern, and southern edge of the City of Desert Hot Springs, both inside and outside the city limits. Area A is located in the residential neighborhood around the golf courses of the Mission Lakes Country Club, just outside the northern boundary of the city (Figs. 2, 6). Areas D-3 is located in a residential neighborhood to the south of Mission Lakes Boulevard between Palm Drive and Santa Cruze Road, in the northeastern portion of the city (Figs. 3, 7). Areas G, H, I, J-2, and K are clustered in a residential neighborhood on both sides of Hacienda Avenue and between Verbena Drive and Deodar Avenue, in the easternmost portion of the city (Figs. 4, 8). The final area, known as I-10 Corridor, lies across the southwestern boundary of the city and on both sides of Indian Canyon Drive between 19th Avenue and the Union Pacific Railroad (Figs. 5, 9). The various components of the APE are scattered among Section 23 of T2S R4E, Sections 30, 32, and 33 of T2S R5E, and Sections 14, 15, 22, and 23 of T3S R4E, San Bernardino Baseline and Meridian, as depicted in the United States Geological Survey (USGS) Desert Hot Springs and Seven Palms Valley, California, 7.5' quadrangles (Figs. 2-5).

The purpose of the study is to assist the MSWD and the USACE in identifying any paleontological localities that may be affected by the proposed project and assessing the potential for such localities to be encountered during construction. To accomplish this objective, CRM TECH initiated a records search at the appropriate repository, conducted a literature review, and carried out a systematic field survey of the APE. This memorandum represents a summary of the methods and findings of these research procedures and the final conclusion of the study.

Records Search

The records search service for this study was provided by the Western Science Center (WSC) in Hemet, California. The records search found no fossil localities within the APE or within a one-mile radius (McDonald 2025; see Appendix 1). The WSC notes:

> The corridor occupied by the project area is surrounded by mountains with non-fossiliferous Precambrian metamorphic rocks. However, the geologic units underlying the project areas themselves are mapped as alluvial deposits from the Quaternary (Pleistocene-Holocene)… Quaternary alluvial units are considered to be fossiliferous and highly paleontologically sensitive. (McDonald 2025)

Essentially, the WSC considers the area to be high in paleontological sensitivity, stating that "any fossil specimens recovered from the project would be scientifically significant" (McDonald 2025).

Therefore, the WSC recommends that a paleontological resource mitigation program be implemented, including monitoring, to salvage and curate fossil remains potentially present within the APE.

Literature Review

In conjunction with the records search, CRM TECH report writer Elizabeth Beckner pursued a literature review on the APE and vicinity under the direction of principal paleontologist Ron Schmidtling (see App. 2 for qualifications). Sources consulted during the review include primarily topographic, geologic, and soil maps of the Desert Hot Springs area, published geologic literature pertaining to the project location, and other materials in the CRM TECH library, including unpublished reports generated by other similar surveys in the vicinity.

Dibblee (2004) identifies the surface sediments in Area A, Area D-3, and I-10 Corridor as *Qa* (Holocene alluvial sand and gravel of valley areas), *Qg* (Holocene alluvial sand and gravelly sand of stream channel washes), and a small portion as *gn* (Precambrian to Mesozoic gneissic and mafic igneous rocks). Areas G, H, I, J-2, and K are identified by Dibblee (2008) as *Qa* (Holocene alluvial sand and gravel of major creeks and stream washes), with *Qfg* (Pleistocene fanglomerate) in a small portion of Area I and *gn* (possibly Precambrian gneissic rock that is part of a metasedimentary complex) in a small portion of Area K.

Lancaster et al. (2012) identify most of the soils in Area A as *Qyf* (young alluvial fan deposits), with the rest of the area featuring *Qw* (alluvial wash deposits) and a very small amount of *pKm* (Cretaceous and pre-Cretaceous metamorphic formations; Fig. 10). The young alluvial fan deposits, *Qyf*, date to the Holocene to Late Pleistocene and is described as "unconsolidated to slightly consolidated, undissected to slightly dissected boulder, cobble, gravel, sand, and silt deposits issued from a confined valley or canyon" (*ibid.*). *Qw* dates to the late Holocene and is described as "unconsolidated sandy and gravelly sediment deposited in recently active channels of streams and rivers," while *pKm* is Mesozoic in age or older and is of "sedimentary and volcanic origin" (*ibid.*).

The surface soils in Area D-3 are identified as *Qyf* and *Qw*, while the soils in Area G are identified primarily as *Qyf*, with portions consisting of *Qw* (Fig. 10). In Areas H and I, the soils also consist of *Qyf* and *Qw*, with the northern portion of the areas having some *Qof* (old alluvial fan deposits; Fig. 10). *Qof* dates to the late to middle Pleistocene and is described as "slightly to moderately consolidated, moderately dissected boulder, cobble, gravel, sand and silt deposits issued from a confined valley or canyon" (Lancaster et al. 2012). The soils in Areas J-2 are identified as *Qyf*, *Qof*, and a small portion as *pKm*, while Area K is identified as *Qyf*, *Qw*, and *pKm* (Fig. 10). The soils in I-10 Corridor are identified as *Qyf*, *Qe* (eolian and dune deposits), and *Qya* (young alluvial valley deposits; Fig. 10). The eolian and dune deposits, *Qe*, date to the late Holocene and are described as "unconsolidated, generally well-sorted wind-blown sand," while *Qya* dates to the Holocene to Late Pleistocene and is described as "unconsolidated to slightly consolidated, undissected to slightly dissected clay, silt, sand, and gravel along stream valleys and alluvial flats of larger rivers" (*ibid.*).

Field Inspection

On June 18, 2025, CRM TECH paleontological surveyor Melissa Portilla (see App. 2 for qualifications) carried out the field survey of Areas A, G, H, I, K, and I-10 Corridor of the APE. On

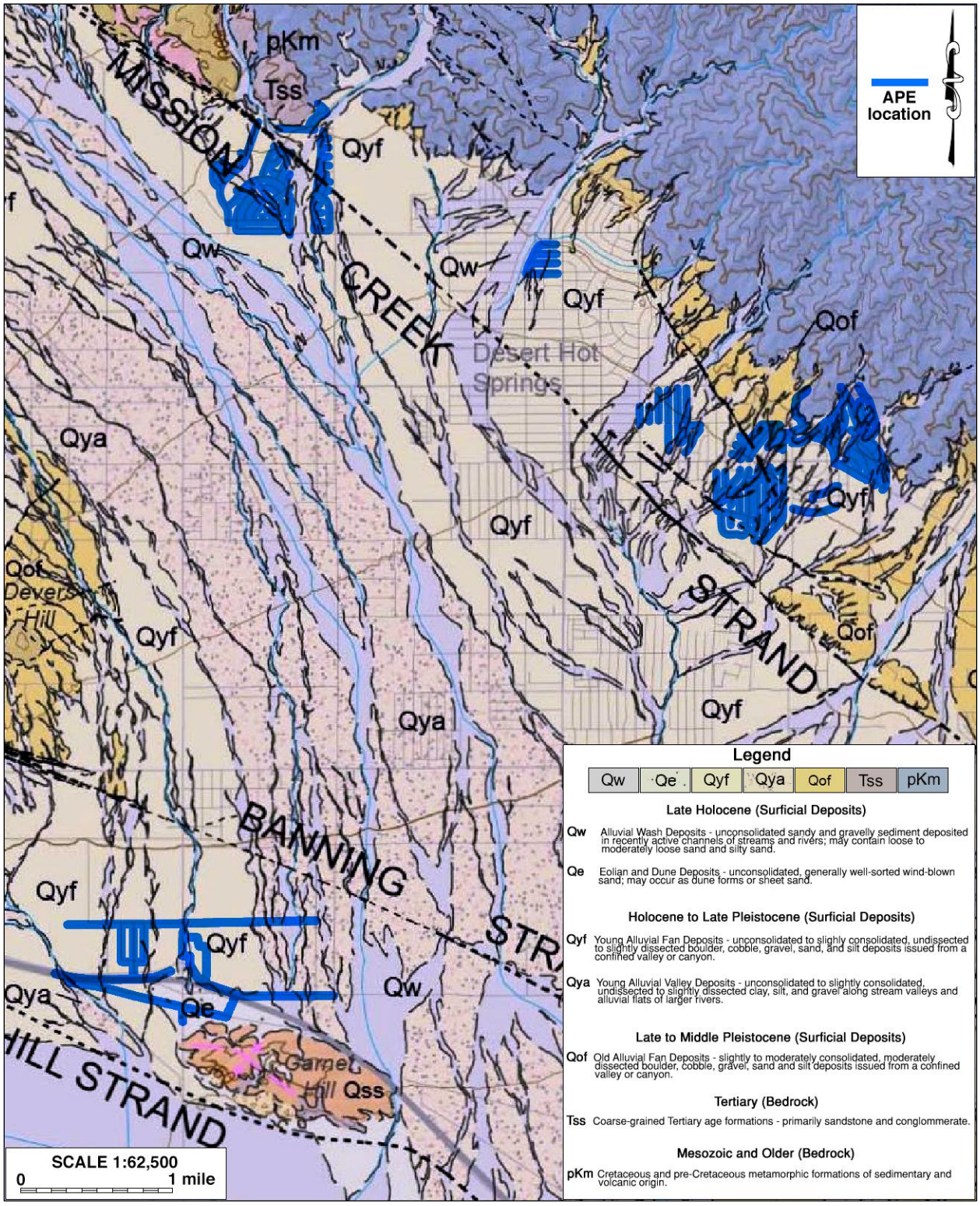


Figure 10. Surface sediments in and around the APE. (Source: Lancaster et al. 2012)

On July 7, 2025, Areas D-3 and J-2 were surveyed by CRM TECH field director Daniel Ballester (see App. 2 for qualifications). In Areas A, D-3, G, H, I, J-2, K, and the portions of I-10 Corridor along paved roads, the survey was conducted at a reconnaissance level by driving slowly along each roadway included in the APE and visually inspecting the public rights-of-way and the portions of the parcels along the routes lying immediately adjacent to the rights-of-way.

For the portions of the APE in I-10 Corridor that are unpaved or are inaccessible by vehicle, the survey team conducted an intensive-level pedestrian survey by walking along the linear path of the APE and visually inspecting the adjacent land. In this way, the ground surface in the entire APE was systematically and carefully examined to determine the soil types, verify the geological formations, and to look for any indications of paleontological remains. Visibility of the native ground surface was essentially 0% in the paved areas but was mostly excellent (90-100%) in unpaved areas where vegetation was sparse. A portion of the APE within I-10 Corridor on 20th Avenue, north of the I-10 freeway, is covered by dense brush within the drainage, which reduced ground visibility to less than 15%.

Areas A, D-3, G, H, I, J-2, and K are predominantly residential neighborhoods with some commercial establishments, while I-10 Corridor consists of commercial and industrial properties and vacant land. Much of the ground surface in the APE is paved or covered by landscaping, with little vestige of the native ground surface visible. In addition, two small portions of the APE in I-10 Corridor had restricted access, where the survey team was unable to enter due to active road construction east of Indian Canyon Drive on 20th Avenue and east of Calle de los Romos on 19th Avenue. Both of these areas, however, are located within and adjacent to paved roadbeds. in light of the extent of past ground disturbances in the vicinity, the visibility level and restricted access were not considered a major hindrance to the survey effort.

The field survey of the APE encountered no surface evidence of any paleontological resources. Surface soils observed in the unpaved portions of I-10 Corridor were alluvial silty sand deposits, and no other geological formations or any indications of fossil remains were noted.
As noted above, the ground surface in most of the APE has been extensively disturbed by past construction activities associated with the existing roadways, underground utility lines, and adjacent developments, leaving little vestige of the native landscape. As a result, it does not represent an accurate reflection of the paleontological sensitivity of the native soils in the vicinity.

Conclusion and Recommendations

In summary of the research results presented above, no paleontological localities were previously found within or in the immediate vicinity of the APE, and no surface manifestation of any fossil remains were observed during the field survey. However, the prevailing sediments at the APE location have been identified as Pleistocene-age alluvium, which generally has a high potential to contain significant, nonrenewable fossil remains beyond the extensively disturbed surface soils.

Based on the sensitivity assessment outlined above, CRM TECH recommends to the MSWD and the USACE a conclusion that the proposed project may impact paleontological resources that are potentially present in the relatively undisturbed subsurface sediments. Therefore, CRM TECH further recommends that a mitigation plan be prepared for the project by a qualified paleontologist.

As the primary component of the mitigation plan, paleontological monitoring should be required during the project, as outlined in detail below:

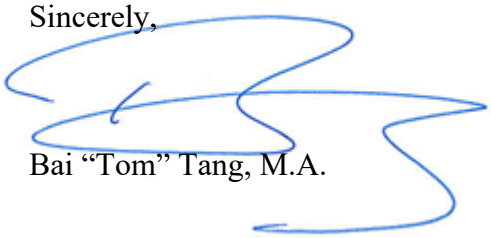
- All earth-moving operations reaching beyond the disturbed surface soils, generally five to six feet in depth within the existing roadbed, should be monitored by a qualified paleontological monitor. The monitor should be prepared to quickly salvage fossils as they are unearthed to avoid construction delays and should collect samples of sediments that are likely to contain fossil remains of small vertebrates or invertebrates. However, the monitor must have the power to temporarily halt or divert grading equipment to allow for the removal of abundant or large specimens.
- Collected samples of sediment should be processed to recover small fossils, and all recovered specimens should be identified and curated at a repository with permanent retrievable storage.
- A report of findings, including an itemized inventory of recovered specimens, should be prepared upon completion of the procedures outlined above. The report should include a discussion of the significance of the paleontological findings, if any. The report and the inventory, when submitted to the MSWD and the USACE, would signify completion of the statutory compliance process regarding paleontological resources.

Under this condition, the proposed project may be cleared to proceed in compliance with CEQA and NEPA provisions on paleontological resources.

Thank you for this opportunity to be of service. If you have any questions or need further information regarding the findings of this study, please do not hesitate to contact me at (909) 824-6400 or ttang@crmtech.us.

Thank you for this opportunity to be of service.

Sincerely,



Bai “Tom” Tang, M.A.

References Cited

Dibblee, Thomas W., Jr.
2004 Geologic Map of the Desert Hot Springs Quadrangle, Riverside County, California. Dibblee Geology Center Map #DF-121. Dibblee Geological Foundation, Santa Barbara, California.
2008 Geologic Map of the Thousand Palms and Lost Horse Mountain Quadrangles, Riverside County, California. Dibblee Geology Center Map #DF-327. Dibblee Geological Foundation, Santa Barbara, California.
Lancaster, Jeremy T., Cheryl A. Hayhurst, and Trinda L. Bedrossian
2012 Preliminary Geologic Map of Quaternary Surficial Deposits in Southern California, Palm Springs 30’x60’ Quadrangle. In Trinda L. Bedrossian, Peter Roffers, Cheryl A. Hayhurst, Jeremy

T. Lancaster, and William R. Short: *Geologic Compilation of Quaternary Surficial Deposits in Southern California*; Plate 24. California Geological Survey Special Report 217. Sacramento, California.

McDonald, Andrew

2025 Letter of findings, paleontological resources records search for the proposed project. Records review letter report prepared by the Western Science Center, Hemet, California. (See Appendix 1)

APPENDIX 1

RECORDS SEARCH RESULTS

WESTERN SCIENCE CENTER

July 9, 2025

CRM TECH
Nina Gallardo
1016 E. Cooley Drive, Suite A/B
Colton, CA 92324

Dear Nina Gallardo,

This letter presents the results of a record search conducted for the Proposed Mission Springs Water District (MSWD): Groundwater Quality Protection Program Assessment District 18 USACE Phasing Summary Project (CRM TECH No. 4271P) in Riverside County, California.

The corridor occupied by the project areas is surrounded by mountains with non-fossiliferous Precambrian metamorphic rocks. However, the geologic units underlying the project areas themselves are mapped as alluvial deposits dating from the Quaternary (Pleistocene-Holocene) (Dibblee & Minch 2004, *Geologic map of the Desert Hot Springs quadrangle, Riverside County, California*; Dibblee & Minch 2008, *Geologic map of the Thousand Palms & Lost Horse Mountain 15 minute quadrangles, Riverside County, California*). Quaternary alluvial units are considered to be fossiliferous and highly paleontologically sensitive. Although the Western Science Center does not have any fossil localities within the project areas or one-mile radii, Quaternary alluvial units throughout Southern California have produced large quantities of fossils, such as the extensive collection from Diamond Valley Lake housed at Western Science Center.

Any fossil specimens recovered from the project would be scientifically significant. Excavation activity associated with the development of the project area would impact the paleontologically sensitive Quaternary units, and it is the recommendation of the Western Science Center that a paleontological resource mitigation program be put in place to monitor, salvage, and curate any recovered fossils from the study area.

If you have any questions, or would like further information, please feel free to contact me at amcdonald@westerncentermuseum.org

Sincerely,

Andrew McDonald

Andrew McDonald, PhD
Curator

2345 Searl Parkway ♦ Hemet, CA 92543 ♦ phone 951.791.0033 ♦ fax 951.791.0032 ♦ WesternScienceCenter.org

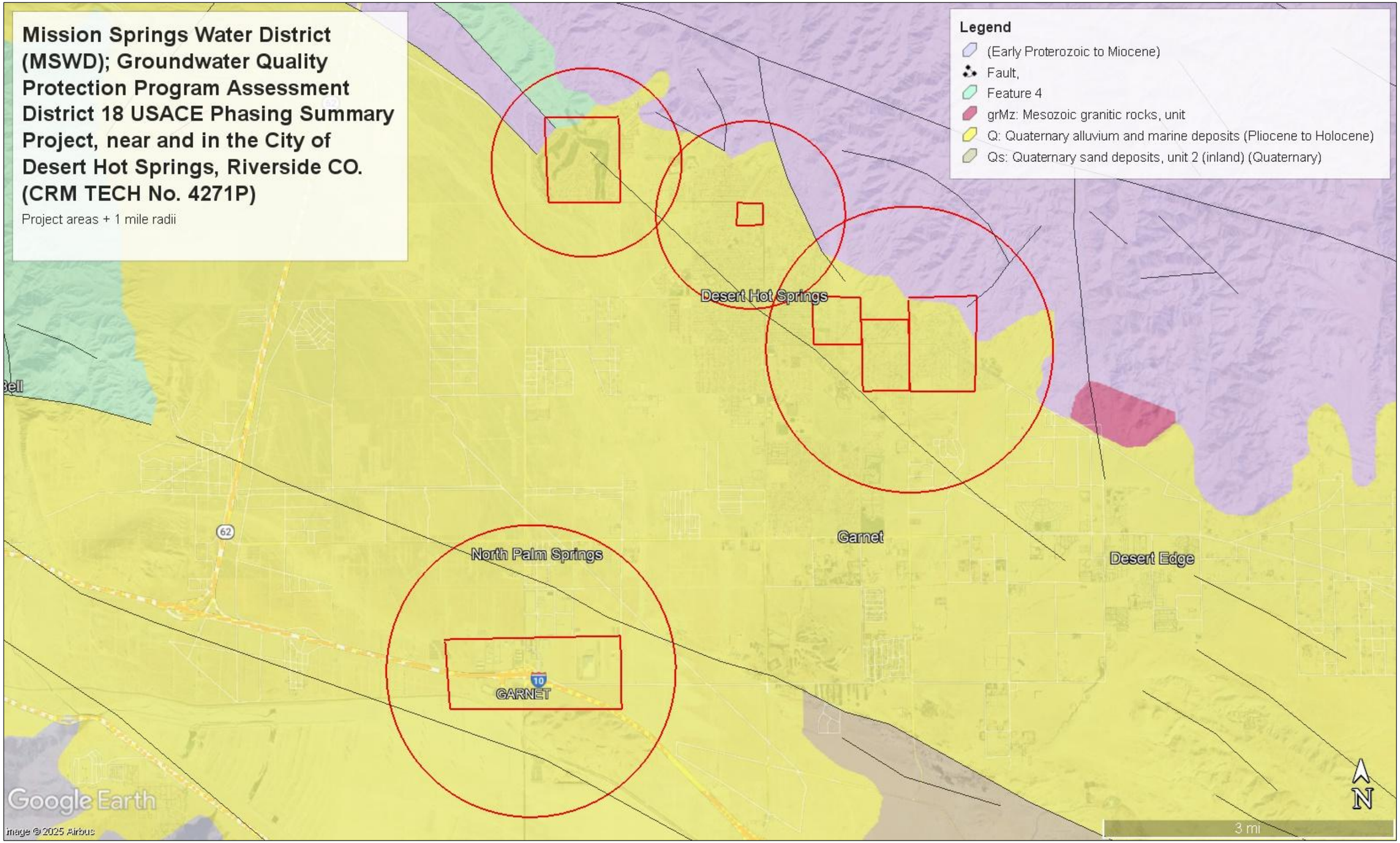

Mission Springs Water District (MSWD); Groundwater Quality Protection Program Assessment District 18 USACE Phasing Summary Project, near and in the City of Desert Hot Springs, Riverside CO. (CRM TECH No. 4271P)
Project areas + 1 mile radii
Legend
(Early Proterozoic to Miocene)
Fault,
Feature 4
grMz: Mesozoic granitic rocks, unit
Q: Quaternary alluvium and marine deposits (Pliocene to Holocene)
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Image © 2025 Airbus
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APPENDIX 2
PERSONNEL QUALIFICATIONS

PRINCIPAL PALEONTOLOGIST
Ron Schmidtling, M.S.

Education

1995	M.S., Geology, University of California, Los Angeles.
1991	Pasadena City College, Pasadena, California.
1985	B.A., Archaeology, Paleontology, Ancient Folklore, and Art History, University of Southern Mississippi, Hattiesburg.

Professional Experience:

2020-	Principal Paleontologist, CRM TECH, Colton, California.
2014-	Instructor of Earth Science, History of Life, Ecology, and Evolutionary Biology, Columbia College Hollywood, Reseda, California.
2013, 2015	Volunteer, excavation of a camarasaur and a diplodocid in southern Utah, Natural History Museum of Los Angeles County, California.
1993-2014	Consultant, Getty Conservation Institute, Brentwood, California.
	• Geological Consultant on the Renaissance Bronze Project, characterizing constituents of bronze core material;
	• Paleontological Consultant for Antiquities/Conservation, identifying the foraminifera and mineral constituents of a limestone torso of Aphrodite;
	• Scientific Consultant on the Brentwood Site Building Project, testing building materials for their suitability in the museum galleries.
1999-2001	Archaeological and Paleontological Monitor, Michael Brandman Associates, Irvine, California.
1997	Department of Archaeology, University of California, Los Angeles.
1994	Scientific Illustrator and Teaching Assistant, Department of Earth and Space Sciences and Department of Biological Sciences, University of California, Los Angeles.

Memberships

AAPS (Association of Applied Paleontological Sciences), USA; CSEOL (Center for the Study of Evolution and the Origin of Life), Department of Earth Sciences, University of California, Los Angeles.

Publications and Reports

Author, co-author, and contributor on numerous paleontological publications and paleontological resource management reports.

REPORT WRITER
Elizabeth L. Beckner, Ph.D.

Education

2024	Ph.D., Anthropology, University of California, Riverside.
2017	M.A., Anthropology, University of California, Riverside.
2016	B.A., Anthropology, University of California, Riverside.
2014	A.A., Anthropology, Chaffey College, Rancho Cucamonga, California.

Professional Experience

2025-	Project Archaeologist, CRM TECH, Colton, California.
2025-	Lecturer, California State University, San Bernardino.
2019-	Adjunct Instructor, Chaffey College, Rancho Cucamonga, California.
2019	Archaeologist, Dudek, Pasadena, California
2017-2019	Teaching Assistant, University of California, Riverside.
2018	Archaeologist, Proyecto Sacbé Cobá-Yaxuna (Sacbé Cobá-Yaxuna Project), Cobá, Quintana Roo, Mexico.
2016-2017	Field Assistant, Proyecto de Interacción Política del Centro de Yucatán (Political Interaction Project of Central Yucatan), Yaxuna, Yucatan, Mexico.
2015-2017	Information Officer, Eastern Information Center, Riverside, California.

PALEONTOLOGICAL SURVEYOR
Melissa A. Portilla, B.A.

Education

2023	A.A. (*cum laude*), Anthropology, Fullerton College.
2019	B.A., Ancient History: Classics, University of Hawaii, Manoa.

- Cross-trained in paleontological field procedures and identifications by CRM TECH Principal Geologist/Paleontologist Ron Schmidtling.

Professional Experience

2023-	Project Archaeologist/Paleontologist, CRM TECH, Colton, California.
2023-2024	Project Archaeologist/Paleontologist, Psomas, Pasadena, California.
2020	Collections Assistant, Museum of Us, San Diego, California.

PROJCT PALEONTOLOGIST/FIELD DIRECTOR
Daniel Ballester, M.S.

Education

2013	M.S., Geographic Information System (GIS), University of Redlands, California.
1998	B.A., Anthropology, California State University, San Bernardino.
1997	Archaeological Field School, University of Las Vegas and University of California, Riverside.
1994	University of Puerto Rico, Rio Piedras, Puerto Rico.
2021	"An Introduction to Geoarchaeology: How Understanding Basic Soils, Sediments, and Landforms can make you a Better Archaeologist." SAA Online Seminar.
2007	Certificate in Geographic Information Systems (GIS), California State University, San Bernardino.

- Cross-trained in paleontological field procedures and identifications by CRM TECH Principal Geologist/Paleontologists Harry M. Quinn and Ron Schmidtling.

Professional Experience

2002-	Field Director/GIS Specialist, CRM TECH, Riverside/Colton, California.
2011-2012	GIS Specialist for Caltrans District 8 Project, Garcia and Associates, San Anselmo, California.
2009-2010	Field Crew Chief, Garcia and Associates, San Anselmo, California.
2009-2010	Field Crew, ECorp, Redlands.
1999-2002	Project Paleontologist/Archaeologist, CRM TECH, Riverside, California.
1998-1999	Field Crew, K.E.A. Environmental, San Diego, California.
1998	Field Crew, A.S.M. Affiliates, Encinitas, California.
1998	Field Crew, Archaeological Research Unit, University of California, Riverside.

Paleontological and Cultural Resources Management Reports

Co-author and contributor to numerous paleontological and cultural resources management reports since 2002.

APPENDIX 6

MISSION SPRINGS WATER DISTRICT GROUNDWATER QUALITY PROTECTION PROGRAM SEPTIC TO SEWER UPDATE PROJECT

NOISE AND VIBRATION ANALYSIS

Prepared By:

Bill Maddux | bmaddux@urbanxroads.com

Reference Number	Agency	Date
16694-03	MSWD	March 17, 2026

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LIST OF ABBREVIATED TERMS

(1)	Reference
ANSI	American National Standards Institute
Calveno	California Vehicle Noise
CEQA	California Environmental Quality Act
CNEL	Community Noise Equivalent Level
dBA	A-weighted decibels
EIR	Environmental Impact Report
EPA	Environmental Protection Agency
FHWA	Federal Highway Administration
FTA	Federal Transit Administration
INCE	Institute of Noise Control Engineering
Leq	Equivalent continuous (average) sound level
Lmax	Maximum level measured over the time interval
mph	Miles per hour
PPV	Peak Particle Velocity
Project	Mission Springs Water District Groundwater Quality Protection Program Septic to Sewer Update Project
REMEL	Reference Energy Mean Emission Level
RMS	Root-mean-square
VdB	Vibration Decibels

EXECUTIVE SUMMARY

Urban Crossroads, Inc. has prepared this noise study to determine the noise exposure and the necessary noise mitigation measures for the proposed Mission Springs Water District (MSWD) Groundwater Quality Protection Program (GQPP) Septic to Sewer Update Project (Project) in the MSWD. The Project proposes to construct 146,200 linear feet of new 8-inch sewer pipeline within various locations throughout the County of Riverside, and cities of Desert Hot Springs and Palm Springs. This noise study has been prepared to satisfy applicable MSWD noise standards and significance criteria based on Appendix G of the California Environmental Quality Act (CEQA) Guidelines. (1)

The results of this Noise and Vibration Analysis are summarized below based on the significance criteria in Section 4 of this report consistent with Appendix G of the California Environmental Quality Act (CEQA) Guidelines. (1) Table ES-1 shows the findings of significance for each potential noise and/or vibration impact under CEQA before and after any required mitigation measures.

TABLE ES-1: SUMMARY OF CEQA SIGNIFICANCE FINDINGS

Analysis	Report Section	Significance Findings	
		Unmitigated	Mitigated
Operational Noise	7	Less Than Significant	-
Project Construction Noise	8	Less Than Significant	-
Nighttime Construction	8	Less Than Significant	-
Construction Vibration	8	Less Than Significant	-

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1 INTRODUCTION

This Noise and Vibration Analysis has been completed to determine the noise impacts associated with the development of the proposed Mission Springs Water District Groundwater Quality Protection Program Septic to Sewer Update Project ("Project"). This noise and vibration analysis briefly describes the Project, provides information regarding noise fundamentals, sets out the local regulatory setting, presents the study methods and procedures for noise analysis, evaluates the future exterior noise environment, potential off-site traffic impacts, the Project-related long-term stationary-source operational noise, and Project-related short-term construction noise and vibration impacts.

1.1 SITE LOCATION

The Mission Springs Water District (MSWD or District) service area is located in southern California within the northwestern portion of the Coachella Valley. The Project will install sewer lines within existing roadways and rights-of-way within the City of Desert Hot Springs and along the I-10 corridor, as shown in Exhibit 1-1. The nearest existing noise-sensitive residential uses are located approximately 20 feet from the proposed pipeline locations within the City of Desert Hot Springs.

1.2 PROJECT DESCRIPTION

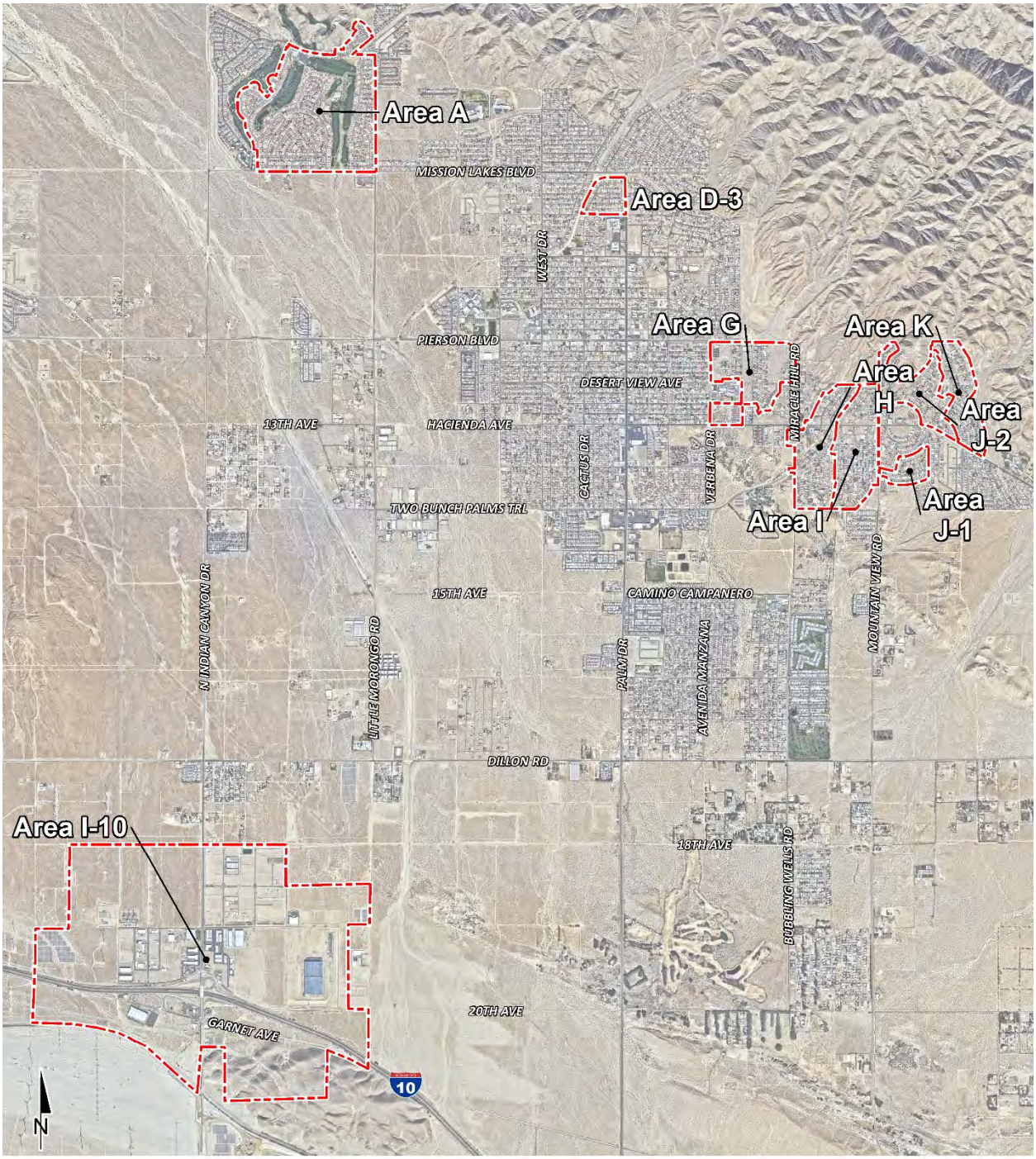
MSWD proposes to construct 146,200 linear feet of new sewer pipeline within Areas A, D-3, G, H, I, J-2, K, and along the I-10 Corridor. The following is a description of each of the individual areas where MSWD is considering connecting these houses to the MSWD's sewer collection system and decommissioning the existing septic systems.

Area A

MSWD proposes to construct 40,000 linear feet of new sewer pipeline that would be 8-inch in size within Sub Area A of the District's service area, within an area of approximately 337 acres. Exhibit 1-2 depicts Sub Area A and the proposed pipeline alignments. The Project would install enough pipeline to connect an anticipated 879 parcels to the MSWD sewer system and abate an estimated 836 on-site septic systems. In addition, Area A also proposes the installation of 879 new 4-inch service laterals. The proposed project would install the pipeline within a number of existing roadways within Sub Area A.

Construction Timing: 60 months required to construct. As funding becomes available, Area A will be phased for construction. As of now, there may be up to 5 phases of construction, with each phase lasting approximately 30 months (overlapping with subsequent phases), which equates to approximately 5 years total. Although the intent is to have construction overlap with subsequent phases, there is no guarantee that construction funding will be available to accommodate that schedule.

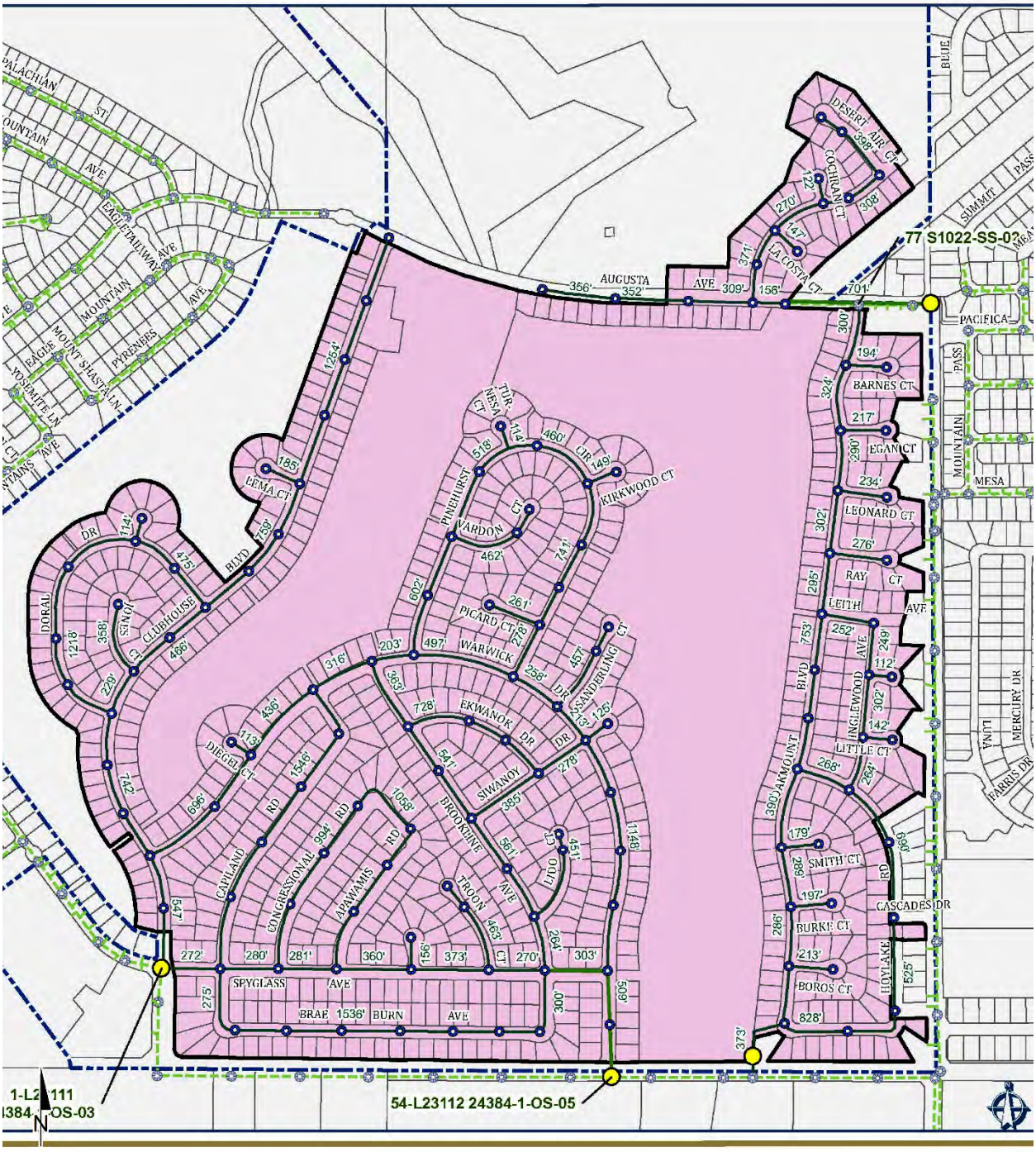
EXHIBIT 1-1: PROJECT LOCATION



LEGEND:

Site Boundary

EXHIBIT 1-2: AREA A



Area D-3

MSWD proposes to construct 4,500 linear feet of new sewer pipeline that would be 8-inch in size within Sub Area D-3 of District's service area, within an area of approximately 33 acres. Exhibit 1-3 depicts Sub Area D-3 and the proposed pipeline alignments. This project pertains to Sub Area D-3 and would install the pipeline required to connect an anticipated 102 parcels to the MSWD sewer system and abate an estimated 82 on-site septic systems. In addition, Area D-3 proposes the installation of 102 new service laterals. The proposed project would install enough pipeline within a number of existing roadways as they lie within Sub Area D-3.

Construction Timing: 6 months required to construct.

Area G

MSWD proposes to construct 9,700 linear feet of new sewer pipeline that would be 8-inch in size within Sub Area G of District's service area, within an area of approximately 119.2 acres. Exhibit 1-4 depicts Sub Area G and the proposed pipeline alignments. This project pertains to Sub Area G and would install the pipeline required to connect an anticipated 196 parcels to the MSWD sewer system and abate an estimated 124 on-site septic systems, and install 196 new 4-inch service laterals. The proposed project would install pipeline within a number of existing roadways as they lie within Sub Area G. The proposed project involves installation at one location that is not located within a defined roadway, but is along a compacted dirt pathway that extends south of Desert View Avenue at Foxdale Drive on the eastern side of Cabot Yerxa Elementary School.

Construction Timing: 12 months required to construct.

Area H

MSWD proposes to construct 16,200 linear feet of new sewer pipeline that would be 8-inch in size within Sub Area H of the District's service area, within an area of approximately 130 acres. Exhibit 1-5 depicts Sub Area H and the proposed pipeline alignments. This project pertains to Sub Area H and would install the pipeline required to connect an anticipated 342 parcels to the MSWD sewer system and abate an estimated 217 on-site septic systems, and install 342 new 4-inch service laterals. The proposed project would install enough pipeline within a number of existing roadways as they lie within Sub Area H.

Construction Timing: 22 months required to construct.

Area I

MSWD proposes to construct 14,400 linear feet of new sewer pipeline that would be 8-inch in size within Sub Area I of District's service area, within an area of approximately 92.2 acres. Exhibit 1-6 depicts Sub Area I and the proposed pipeline alignments. This project pertains to Sub Area I and would install the pipeline required to connect an anticipated 33 parcels to the MSWD sewer system, abate an estimated 251 on-site septic systems, and install 334 new 4-inch service laterals. The proposed project would install pipeline within a number of existing roadways as they lie within Sub Area I. The proposed project involves installation of pipeline at one location that is not within a roadway to connect sewer pipeline from Hidalgo Street to Quinta Way. This pipeline will skirt the boundaries of the homes within Sub Area I.

Construction Timing: 20 months required to construct.

EXHIBIT 1-2: AREA D-3



EXHIBIT 1-3: AREA G

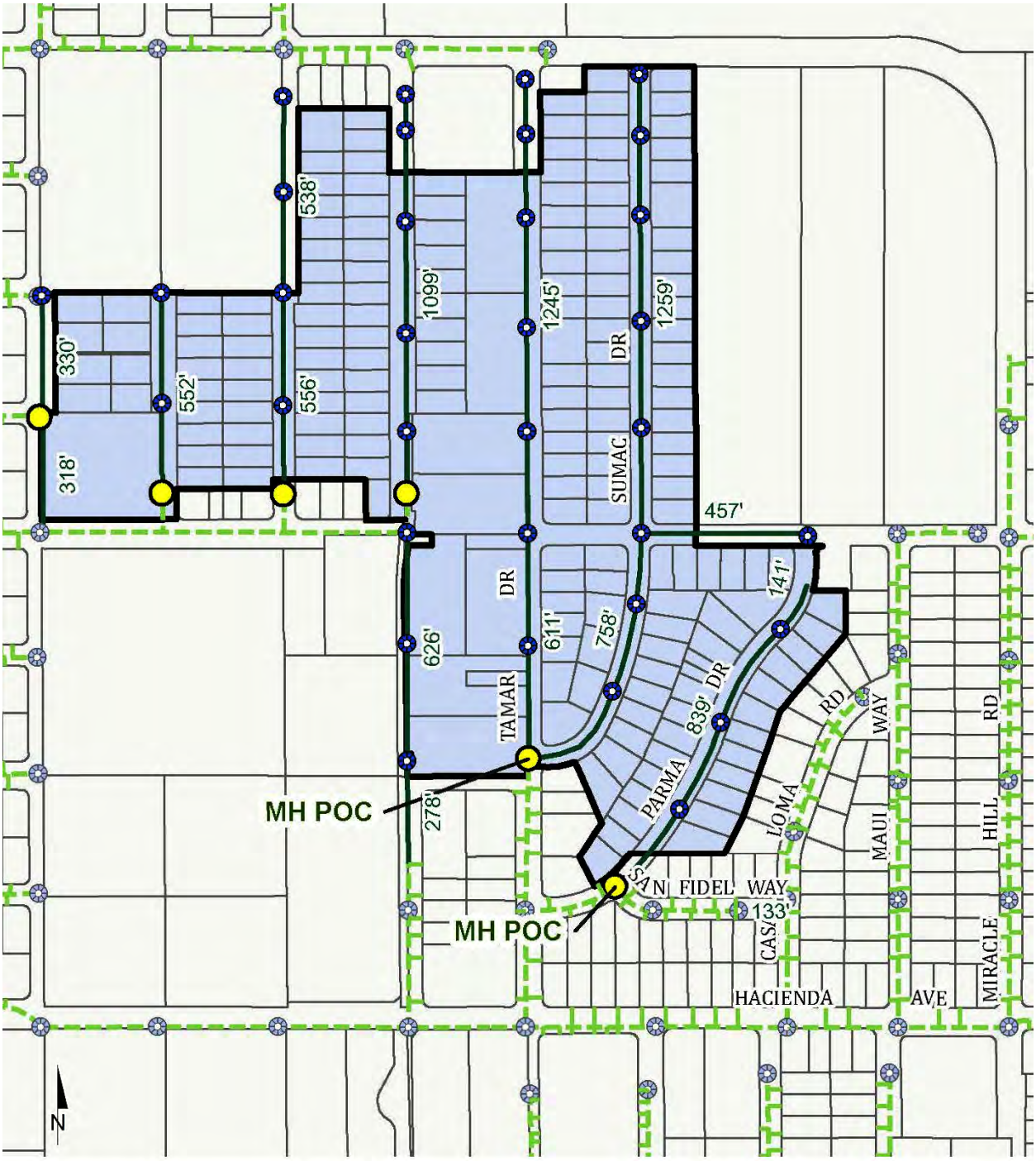
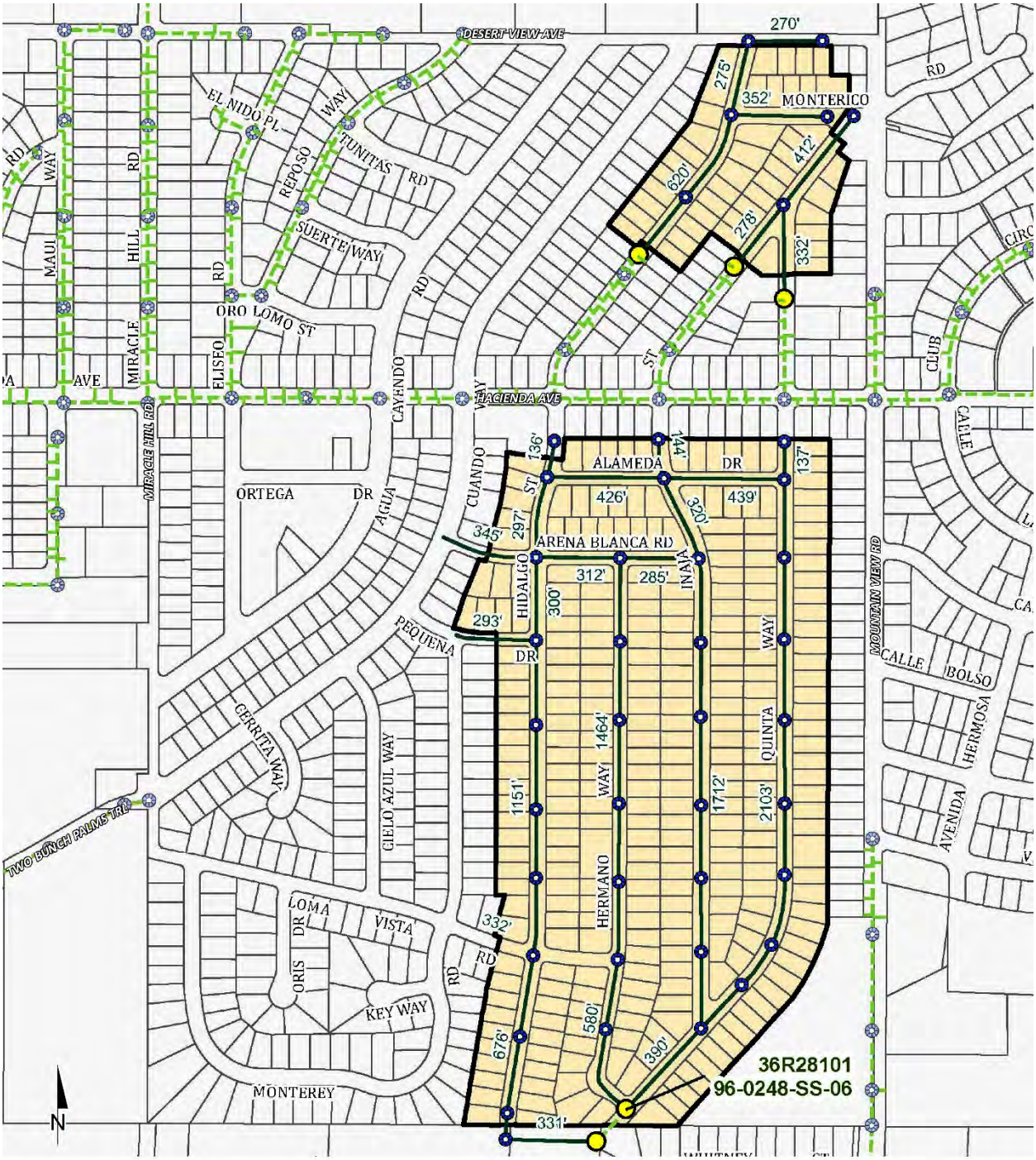


EXHIBIT 1-4: AREA H



EXHIBIT 1-5: AREA I



Area J-2

MSWD proposes to construct 15,700 linear feet of new sewer pipeline that would be 8-inch in size within Sub Area J-2 of District's service area, within an area of approximately 96.3 acres. Exhibit 1-6 depicts Sub Area J-2 and the proposed pipeline alignments. This project pertains to Sub Area J-2 and would install the pipeline required to connect an anticipated 319 parcels to the MSWD sewer system, abate an estimated 252 on-site septic systems, and install 319 new service laterals. The proposed project would install pipeline within a number of existing roadways as they lie within Sub Area J-2.

Construction Timing: 22 months required to construct.

Area K

MSWD proposes to construct 12,500 linear feet of new sewer pipeline that would be 8-inch in size within Sub Area K of District's service area, within an area of approximately 77 acres. Exhibit 1-7 depicts Sub Area K and the proposed pipeline alignments. This project pertains to Sub Area K and would install the pipeline required to connect an anticipated 248 parcels to the MSWD sewer system, abate an estimated 193 on-site septic systems, and install 248 new 4-inch service laterals. The proposed project would install pipeline within a number of existing roadways as they lie within Sub Area K

Construction Timing:12 months required to construct.

Area I-10 Corridor

MSWD proposes to construct 37,400 linear feet of new sewer pipeline that would be 8, 10, 12, 15, 18 and 21-inch in size within Sub Area I-10 Corridor of District's service area, within an area of approximately 1,120 acres. Exhibit 1-8 depicts Sub Area I-10 Corridor and the proposed pipeline alignments. This project pertains to Sub Area I-10 Corridor and would install the pipeline required to connect an anticipated 54 parcels to the MSWD sewer system and abate an estimated 42 on-site septic systems, and install an estimated 54 new 4-Inch and 6-inch service laterals The proposed project would install pipeline within a number of existing roadways as they lie within Sub Area I-10 Corridor (**Figure 15**). The proposed project involves installation of pipeline between Garnet Avenue to the east of Indian Canyon Drive, north to 20th Avenue that will require boring under the I-10. Additionally, the development of this Sub Area requires installation of pipeline within dirt roadways (20th Avenue to the east of the proposed sewer connection from Garnet Avenue to the South and 19th Street from just east of Calle de los Romos to the Nancy Wright Regional Wastewater Reclamation Facility [RWRF]).

Construction Timing: 48 months required to construct. (This project will likely be completed in phases as funding becomes available, much like Area A).

EXHIBIT 1-6: AREA J



EXHIBIT 1-7: AREA K

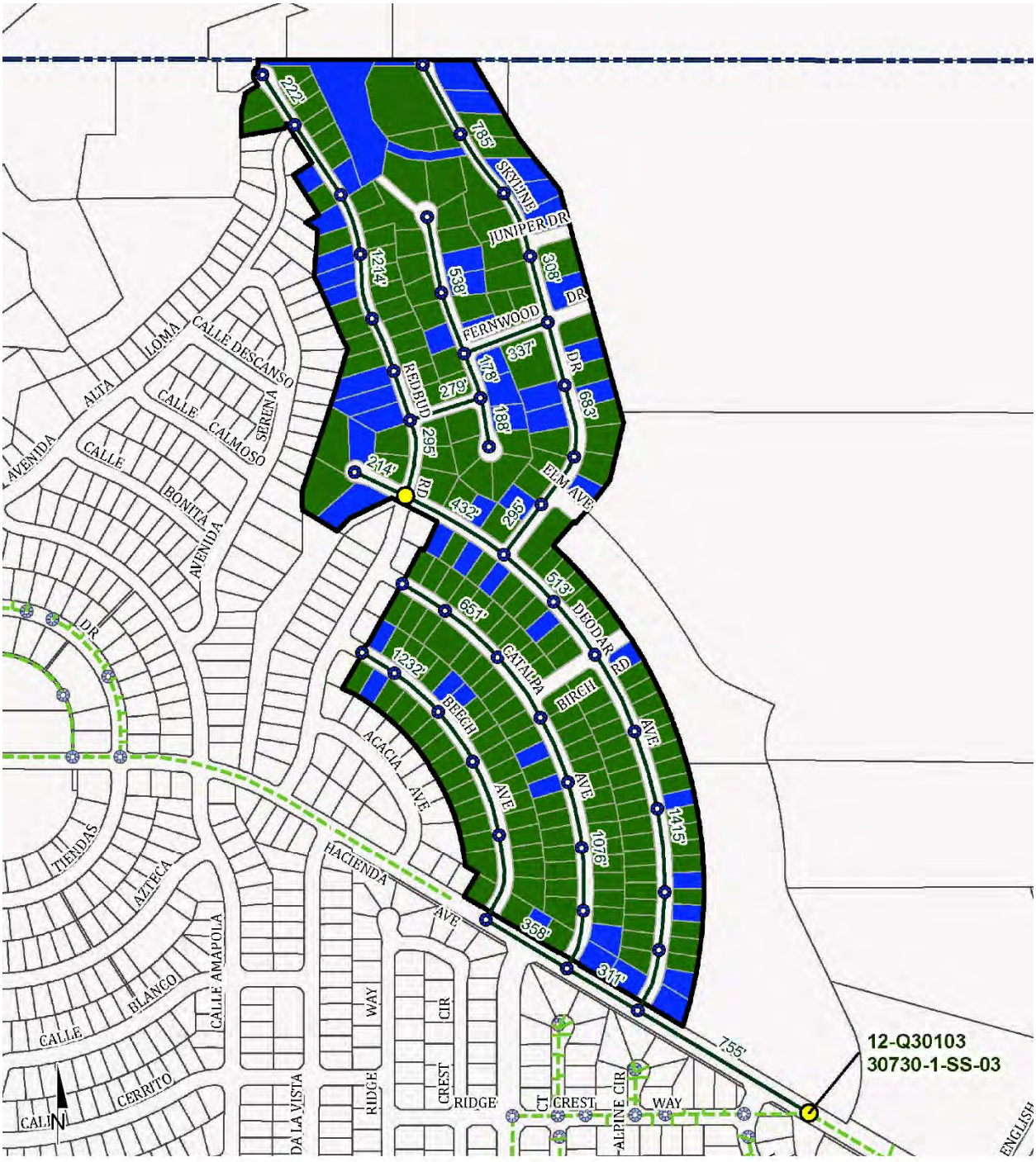
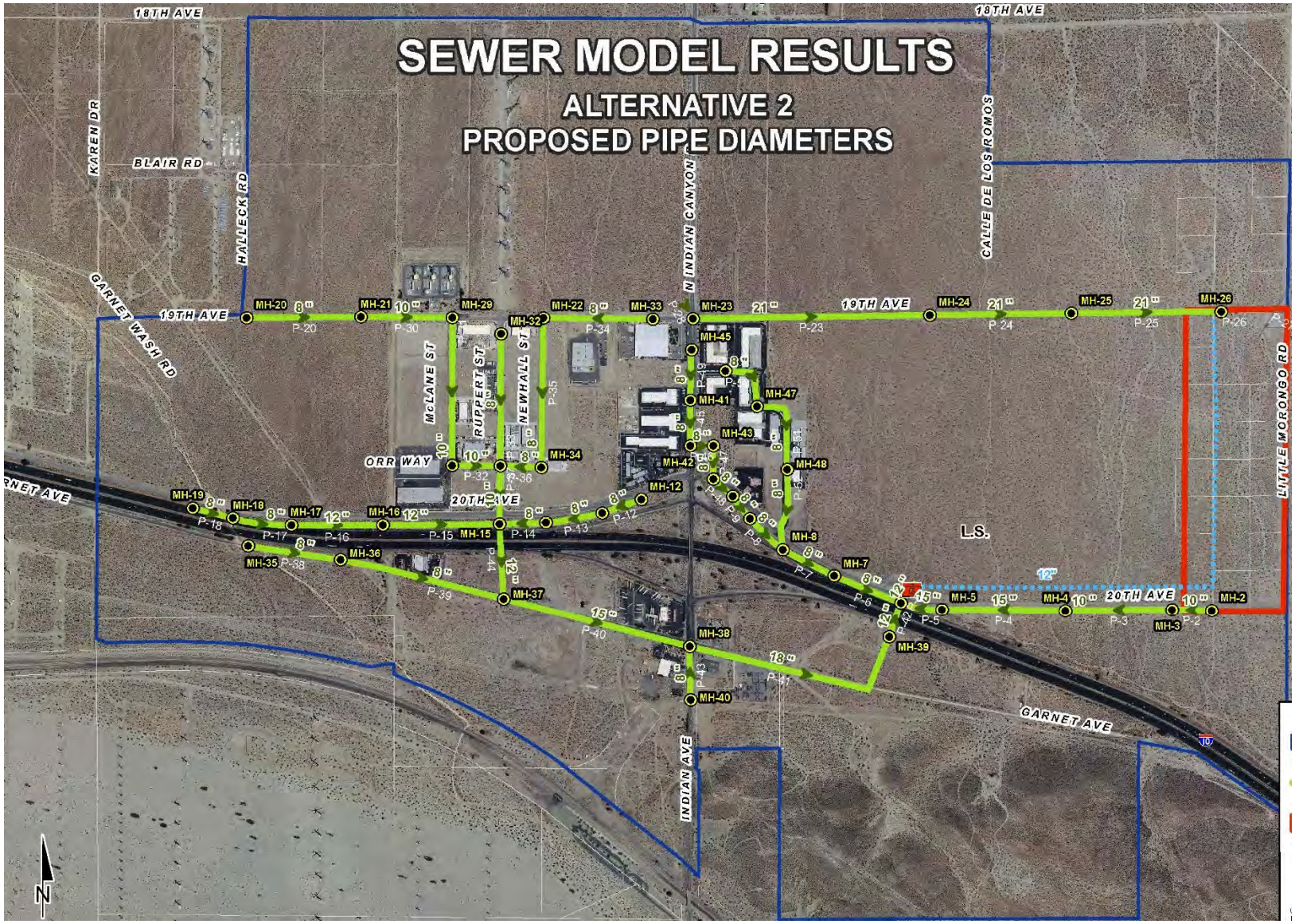


EXHIBIT 1-8: AREA I-10



2 FUNDAMENTALS

Noise is simply defined as "unwanted sound." Sound becomes unwanted when it interferes with common activities, when it causes actual physical harm, or when it has adverse effects on health. Noise is measured on a logarithmic scale of sound pressure level known as a decibel (dB). A-weighted decibels (dBA) approximate the subjective response of the human ear to a broad frequency noise source by discriminating against very low and very high frequencies of the audible spectrum. They are adjusted to reflect only those frequencies that are audible to the human ear. Exhibit 2-1 presents a summary of the typical noise levels and their subjective loudness and effects that are described in more detail below.

EXHIBIT 2-1: TYPICAL NOISE LEVELS

COMMON OUTDOOR ACTIVITIES	COMMON INDOOR ACTIVITIES	A - WEIGHTED SOUND LEVEL dBA	SUBJECTIVE LOUDNESS	EFFECTS OF NOISE
THRESHOLD OF PAIN		140	INTOLERABLE OR DEAFENING	HEARING LOSS
NEAR JET ENGINE		130		
		120		
JET FLY-OVER AT 300m (1000 ft)	ROCK BAND	110		
LOUD AUTO HORN		100	VERY NOISY	
GAS LAWN MOWER AT 1m (3 ft)		90		
DIESEL TRUCK AT 15m (50 ft), at 80 km/hr (50 mph)	FOOD BLENDER AT 1m (3 ft)	80		SPEECH INTERFERENCE
NOISY URBAN AREA, DAYTIME	VACUUM CLEANER AT 3m (10 ft)	70	LOUD	
HEAVY TRAFFIC AT 90m (300 ft)	NORMAL SPEECH AT 1m (3 ft)	60		
QUIET URBAN DAYTIME	LARGE BUSINESS OFFICE	50	MODERATE	SLEEP DISTURBANCE
QUIET URBAN NIGHTTIME	THEATER, LARGE CONFERENCE ROOM (BACKGROUND)	40		
QUIET SUBURBAN NIGHTTIME	LIBRARY	30	FAINT	NO EFFECT
QUIET RURAL NIGHTTIME	BEDROOM AT NIGHT, CONCERT HALL (BACKGROUND)	20		
	BROADCAST/RECORDING STUDIO	10	VERY FAINT	
LOWEST THRESHOLD OF HUMAN HEARING	LOWEST THRESHOLD OF HUMAN HEARING	0		

Source: Environmental Protection Agency Office of Noise Abatement and Control, Information on Levels of Environmental Noise Requisite to Protect Public Health and Welfare with an Adequate Margin of Safety (EPA/ONAC 550/9-74-004) March 1974.

2.1 RANGE OF NOISE

Since the range of intensities that the human ear can detect is so large, the scale frequently used to measure intensity is a scale based on multiples of 10, the logarithmic scale. The scale for measuring intensity is the decibel scale. Each interval of 10 decibels indicates a sound energy ten times greater than before, which is perceived by the human ear as being roughly twice as loud. (2) The most common sounds vary between 40 dBA (very quiet) to 100 dBA (very loud). Normal conversation at three feet is roughly at 60 dBA, while loud jet engine noises equate to 110 dBA at approximately

1,000 feet, which can cause serious discomfort. (3) Another important aspect of noise is the duration of the sound and the way it is described and distributed in time.

2.2 NOISE DESCRIPTORS

Environmental noise descriptors are typically based on average noise levels over time, rather than instantaneous measurements. The most commonly used metric is the equivalent continuous sound level (L_{eq}). Rather than being measured directly, Leq is calculated from A-weighted sound pressure levels (dBA) recorded over a specified period. The L_{eq} represents the constant sound level that, over a given time, would contain the same acoustic energy as the actual fluctuating sound levels. As such, it is widely used to describe average environmental noise exposure. Importantly, while sound pressure levels (e.g., L_{eq}) express the intensity of sound at a specific location and are affected by distance and environmental conditions, sound power levels (L_w) are intrinsic properties of the sound source itself. Unlike sound pressure, sound power is independent of distance and unaffected by obstacles, air absorption, or weather conditions. In contrast, sound pressure levels decrease with distance due to factors such as geometric spreading, absorption by air and surfaces, intervening barriers or obstacles, and meteorological conditions (e.g., wind, humidity).

To describe the time-varying character of environmental noise, the statistical or percentile noise descriptors $L_{50,}$ $L_{25,}$ $L_{8, \text{ and } L2}$ are commonly used. The percentile noise descriptors are the noise levels equaled or exceeded during 50 percent, 25 percent, 8 percent, and 2 percent of a stated time. Sound levels associated with the L_2 and L_8 typically describe transient or short-term events, while levels associated with the L_{50} describe the steady state (or median) noise conditions. While the L_{50} describes the median noise levels occurring 50 percent of the time, the L_{eq} accounts for the total energy (average) observed for the entire hour. Therefore, the L_{eq} noise descriptor is generally 1-2 dBA higher than the L_{50} noise level.

While useful, peak-hour or average noise levels do not completely describe a given noise environment. Noise levels lower than peak hour may be disturbing if they occur during times when quiet is most desirable, namely, evening and nighttime (sleeping) hours. To account for this, the Community Noise Equivalent Level (CNEL), representing a composite 24-hour noise level, is utilized. The CNEL is the weighted average of the intensity of a sound, with corrections for time of day, and averaged over 24 hours. The time-of-day corrections require the addition of 5 decibels to dBA L_{eq} sound levels in the evening from 7:00 p.m. to 10:00 p.m., and the addition of 10 decibels to dBA L_{eq} sound levels at night between 10:00 p.m. and 7:00 a.m. These additions are made to account for the noise-sensitive time periods during the evening and night hours when sound appears louder. CNEL does not represent the actual sound level heard at any time, but rather represents the total sound exposure. The MSWD relies on the 24-hour CNEL level to assess land use compatibility with transportation-related noise sources.

2.3 SOUND PROPAGATION

When sound propagates over a distance, it changes in level and frequency content. The way noise reduces with distance depends on the following factors.

2.3.1 Geometric Spreading

Sound from a localized source (i.e., a stationary point source) propagates uniformly outward in a spherical pattern. The sound level attenuates (or decreases) at a rate of 6 dB for each doubling of distance from a point source. Highways consist of several localized noise sources on a defined path and hence can be treated as a line source, which approximates the effect of several point sources. Noise from a line source propagates outward in a cylindrical pattern, often referred to as cylindrical spreading. Sound levels attenuate at a rate of 3 dB for each doubling of distance from a line source. (2)

2.3.2 Ground Absorption

The propagation path of noise from a highway to a receiver is usually very close to the ground. Noise attenuation from ground absorption and reflective wave canceling adds to the attenuation associated with geometric spreading. Traditionally, the excess attenuation has also been expressed in terms of attenuation per doubling of distance. This approximation is usually sufficiently accurate for distances of less than 200 feet. For acoustically hard sites (i.e., sites with a reflective surface between the source and the receiver, such as a parking lot or body of water), no excess ground attenuation is assumed. For acoustically absorptive or soft sites (i.e., those sites with an absorptive ground surface between the source and the receiver, such as soft dirt, grass, or scattered bushes and trees), an excess ground attenuation value of 1.5 dB per doubling of distance is normally assumed. When added to the cylindrical spreading, the excess ground attenuation results in an overall drop-off rate of 4.5 dB per doubling of distance from a line source. (4)

2.3.3 Atmospheric Effects

Receivers located downwind from a source can be exposed to increased noise levels relative to calm conditions, whereas locations upwind can have lowered noise levels. Sound levels can be increased at large distances (e.g., more than 500 feet) due to atmospheric temperature inversion (i.e., increasing temperature with elevation). Other factors such as air temperature, humidity, and turbulence can also have significant effects. (2)

2.3.4 Shielding

A large object or barrier in the path between a noise source and a receiver can substantially attenuate noise levels at the receiver. The amount of attenuation provided by shielding depends on the size of the object and the frequency content of the noise source. Shielding by trees and other such vegetation typically only has an "out of sight, out of mind" effect. That is, the perception of noise impact tends to decrease when vegetation blocks the line-of-sight to nearby residents. However, for vegetation to provide a substantial, or even noticeable, noise reduction, the vegetation area must be at least 15 feet in height, 100 feet wide and dense enough to completely obstruct the line-of-sight between the source and the receiver. This size of vegetation may provide up to 5 dBA of noise reduction. The Federal Highway Administration (FHWA) does not consider the planting of vegetation to be a noise abatement measure. (5)

2.4 NOISE CONTROL

Noise control is the process of obtaining an acceptable noise environment for an observation point or receiver by controlling the noise source, transmission path, receiver, or all three. This concept is known as the source-path-receiver concept. In general, noise control measures can be applied to these three elements.

2.5 NOISE BARRIER ATTENUATION

Effective noise barriers can reduce noise levels by 10 to 15 dBA, cutting the loudness of traffic noise in half. A noise barrier is most effective when placed close to the noise source or receiver. Noise barriers, however, do have limitations. For a noise barrier to work, it must block the line-of-sight path of sound from the noise source.

2.6 LAND USE COMPATIBILITY WITH NOISE

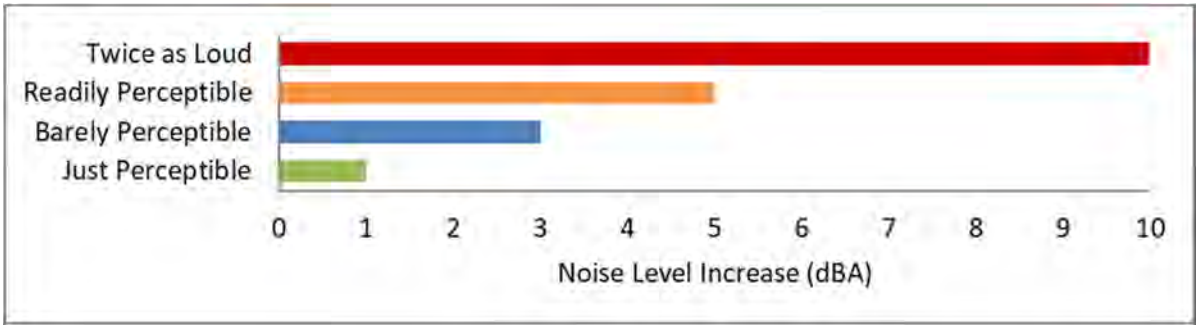
Some land uses are more tolerant of noise than others. For example, schools, hospitals, churches, and residences are more sensitive to noise intrusion than commercial or industrial developments and related activities. As ambient noise levels affect the perceived amenity or livability of a development, so too can the mismanagement of noise impacts impair the economic health and growth potential of a community by reducing the area's desirability as a place to live, shop, and work. For this reason, land use compatibility with the noise environment is an important consideration in the planning and design process. The FHWA encourages state and local governments to regulate land development in such a way that noise-sensitive land uses are either prohibited from being located adjacent to a highway or that the developments are planned, designed, and constructed in such a way that noise impacts are minimized. (6)

2.7 COMMUNITY RESPONSE TO NOISE

Approximately sixteen percent of the population has a very low tolerance for noise and will object to any noise not of their making. Consequently, even in the quietest environment, some complaints may occur. Twenty to thirty percent of the population will not complain even in very severe noise environments. (7 pp. 8-6) Thus, a variety of reactions can be expected from people exposed to any given noise environment.

Surveys have shown that community response to noise varies from no reaction to vigorous action for newly introduced noises, averaging from 10 dB below existing to 25 dB above existing. (8) According to research published in the Noise Effects Handbook (7), the percentage of high annoyance ranges from approximately 0 percent at 45 dB or less, 10 percent are highly annoyed around 60 dB, and increases rapidly to approximately 70 percent being highly annoyed at approximately 85 dB or greater. Despite this variability in behavior on an individual level, the population can be expected to exhibit the following responses to changes in noise levels, as shown in Exhibit 2-2. A change of 3 dBA is considered barely perceptible, and changes of 5 dBA are considered readily perceptible. (4)

EXHIBIT 2-2: NOISE LEVEL INCREASE PERCEPTION



2.8 VIBRATION

Per the Federal Transit Administration (FTA) *Transit Noise and Vibration Impact Assessment Manual*, vibration is the periodic oscillation of a medium or object. The rumbling sound caused by the vibration of room surfaces is called structure-borne noise. Sources of ground-borne vibrations include natural phenomena (e.g., earthquakes, volcanic eruptions, sea waves, landslides) or human-made causes (e.g., explosions, machinery, traffic, trains, construction equipment). Vibration sources may be continuous, such as factory machinery, or transient, such as explosions. As is the case with airborne sound, ground-borne vibrations may be described by amplitude and frequency.

Additionally, in contrast to airborne noise, ground-borne vibration outdoors is not a common environmental problem, and annoyance from ground-borne vibration is almost exclusively an indoor phenomenon (8). Therefore, the effects of vibrations should only be evaluated at a structure, and the effects of the building structure on the vibration should be considered. Wood-frame buildings, such as typical residential structures, are more easily excited by ground vibration than heavier buildings. In contrast, large masonry buildings with spread footings have a low response to ground vibration (8). In general, the heavier a building is, the lower the response will be to the incident vibration energy. However, all structures reduce vibration levels due to the coupling of the building to the soil.

There are several methods used to quantify vibration levels. Peak Particle Velocity (PPV) is defined as the maximum instantaneous peak of a vibration signal and is most commonly used to evaluate the impact of vibration on buildings (9) (8). However, PPV is not always suitable for assessing human response (e.g., annoyance), as the human body does not respond instantly to vibration signals. Instead, it responds to the average amplitude, more accurately represented by the Root Mean Square (RMS) value of the vibration (8).

RMS is defined as the square root of the average of the squared signal amplitude and is commonly used to evaluate human exposure to vibration. RMS and PPV are mathematically related—RMS is typically about 70% of the PPV for certain waveforms (10) (11). However, deriving RMS from PPV requires knowing the full waveform or making assumptions (e.g., sinusoidal or steady-state signals). Without this information, converting PPV to RMS introduces uncertainty and provides limited insight, especially in cases involving transient or impact vibrations (12).

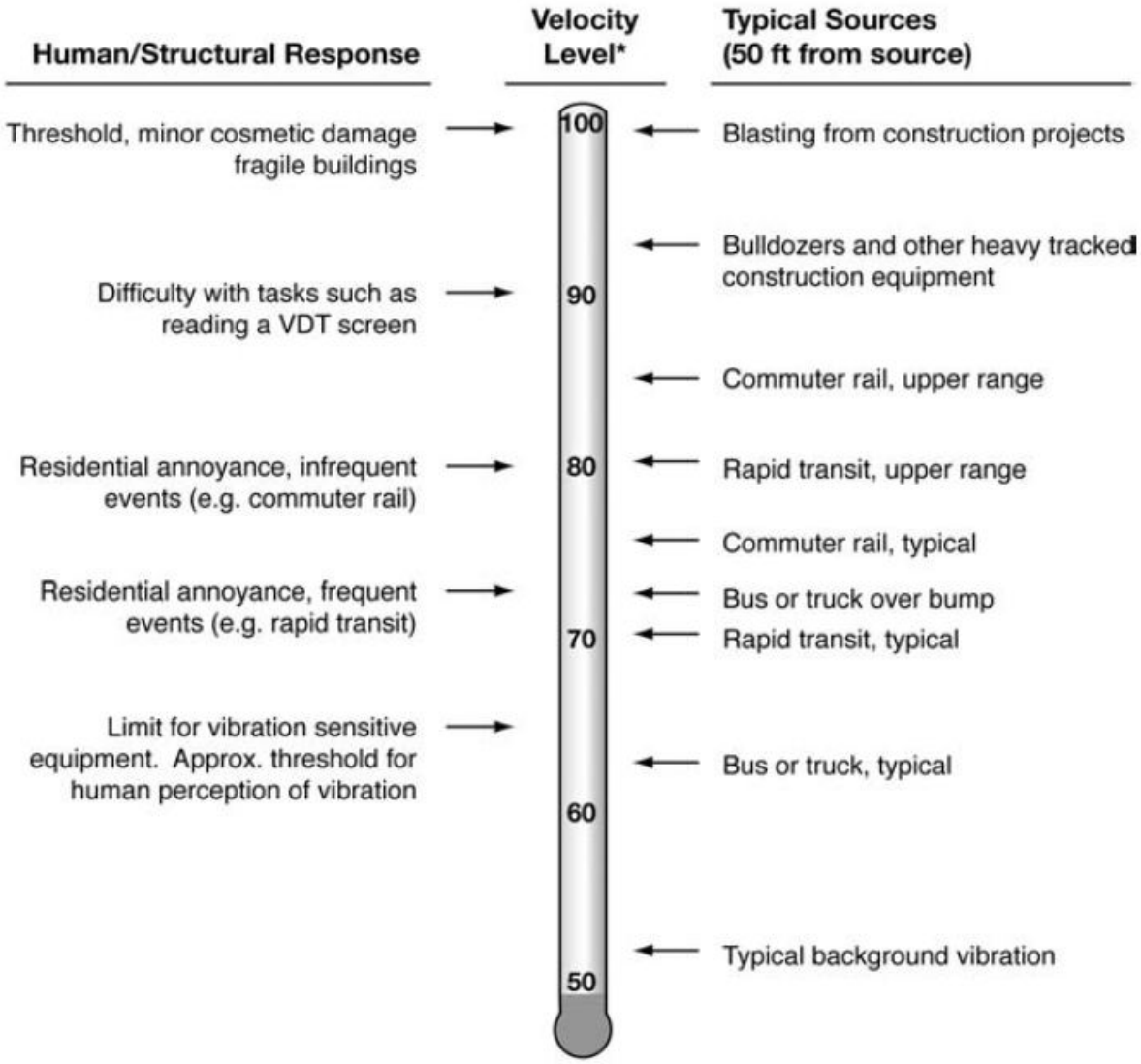
This distinction is important because human annoyance to vibration is often triggered by abrupt, intermittent events, rather than sustained energy levels. Construction-related vibrations are typically impulsive and broadband, in contrast to the continuous, tonal vibrations associated with transit systems. The FTA's RMS-based criteria were developed with train activity in mind and are not well-suited for construction vibration, where perception is driven by factors like suddenness, impact, and repetition (8).

In essence, RMS tends to average out short-duration, high-intensity events—the very events that people find most disturbing. Therefore, for construction activities, PPV-based thresholds, such as those recommended by Caltrans, are more appropriate for assessing potential human annoyance and structural impact (11).

While not universally accepted, vibration decibel notation (VdB) is another RMS-based vibration notation developed and used by the FTA in their guidance manual to describe vibration levels and provide a background of common vibration levels and set vibration limits (8). Decibel notation (VdB) serves to reduce the range of numbers used to describe vibration levels and is used in this report to describe vibration levels.

As stated in the FTA guidance manual, the background vibration-velocity level in residential areas is generally 50 VdB. Ground-borne vibration is normally perceptible to humans at approximately 65 VdB. For most people, a vibration-velocity level of 75 VdB is the approximate dividing line between barely perceptible and distinctly perceptible levels. Typical outdoor sources of perceptible ground-borne vibration are construction equipment, steel-wheeled trains, and traffic on rough roads. If a roadway is smooth, the ground-borne vibration is rarely perceptible. The range of interest is from approximately 50 VdB, which is the typical background vibration-velocity level, to 100 VdB, which is the general threshold where minor damage can occur in fragile buildings. Exhibit 2-3 illustrates common vibration sources and the human and structural response to ground-borne vibration.

EXHIBIT 2-3: TYPICAL LEVELS OF GROUND-BORNE VIBRATION



* *RMS Vibration Velocity Level in VdB relative to 10^{-6} inches/second*

Source: Federal Transit Administration (FTA) Transit Noise and Vibration Impact Assessment Manual.

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3 REGULATORY SETTING

To limit population exposure to physically and/or psychologically damaging as well as intrusive noise levels, the federal government, the State of California, various county governments, and most municipalities in the state have established standards and ordinances to control noise. In most areas, automobile and truck traffic is the major source of environmental noise. Traffic activity generally produces an average sound level that remains constant with time. Air and rail traffic, and commercial and industrial activities are also major sources of noise in some areas. Federal, state, and local agencies regulate different aspects of environmental noise. Federal and state agencies generally set noise standards for mobile sources such as aircraft and motor vehicles, while regulation of stationary sources is left to local agencies.

3.1 STATE OF CALIFORNIA NOISE REQUIREMENTS

The State of California regulates freeway noise, sets standards for sound transmission, provides occupational noise control criteria, identifies noise standards, and provides guidance for local land use compatibility. State law requires that each county and city adopt a General Plan that includes a Noise Element which is to be prepared per guidelines adopted by the Governor's Office of Planning and Research (OPR). (13) The purpose of the Noise Element is to limit the exposure of the community to excessive noise levels. In addition, the California Environmental Quality Act (CEQA) requires that all known environmental effects of a project be analyzed, including environmental noise impacts.

3.2 GENERAL PLAN NOISE ELEMENTS

City of Desert Hot Springs

The purpose of the City of Desert Hot Springs General Plan Safety and Noise Element is to coordinate the City's land uses with the existing and future noise environment. (14) To protect City of Desert Hot Springs residents from excessive noise levels, the Noise Element contains the following project related goal and policies:

Goal	A noise environment that provides peace and quiet that compliments the city's spa resort character
SN-8.1	Sensitive Land Uses. Protect noise-sensitive land uses from high noise levels from both existing and future noise sources. Sensitive uses include residences, resorts and community open space, schools, libraries, churches, hospitals, and convalescent homes.
SN-8.2	Noise Impacts. Assess proposed development and associated traffic for the potential to generate adverse and incompatible noise impacts. Require mitigation for identified impacts.
SN-8.5	Land Use Compatibility. Designate land uses that are compatible with higher noise levels adjacent to major arterial roads and highways, the Interstate10 corridor, or designated industrial lands.
SN-8.10	Noise-Generating Uses. Require specific design for noise-generating uses such as restaurants, bars, and industrial business located near sensitive uses such as residential.

SN-8.11 Noise-Level Compliance. Require new development to monitor and document compliance with all applicable noise level limits in areas subject to potentially significant noise impacts.

SN-8.13 Noise-reducing Pavement. Encourage the use of noise-reducing paving materials such as rubberized asphalt for road surfacing projects near sensitive land uses.

The noise policies and programs specified in the City of Desert Hot Springs Noise Element provide the guidelines necessary to satisfy this goal. Further, the noise criteria identified in the City of Desert Hot Springs General Plan Noise Element (Table SN-2) are guidelines to evaluate the land use compatibility of transportation-related noise. The compatibility criteria, shown in Exhibit 3-1, provides the City with a planning tool to gauge the compatibility of land uses relative to existing and future exterior noise levels.

City Of Palm Springs

The City of Palm Springs has adopted a Noise Element of the General Plan (11) to control and abate environmental noise, and to protect the citizens of the City of Palm Springs from excessive exposure to noise. The Noise Element specifies the maximum exterior and interior noise levels for new developments impacted by transportation noise sources such as arterial roads, freeways, airports and railroads. In addition, the Noise Element identifies noise polices designed to protect, create, and maintain an environment free from noise that may jeopardize the health or welfare of sensitive receptors, or degrade quality of life. To protect City residents from excessive noise, the Noise Element contains the following two goals related to the Project:

NS1 Protect residential areas and other sensitive land uses from impacts generated by exposure to excessive noise.

NS2 Minimize, to the greatest extent possible, the impact of transportation related noise on residential areas and other sensitive land uses.

The noise policies specified in the City of Palm Springs Noise Element provide the guidelines necessary to satisfy these two goals. To protect residential areas from excessive noise (NS1), the City encourages the application of site planning and architectural design techniques that reduce noise impacts on new developments. The Noise Element also provides several policies to reduce noise impacts from transportation (NS2), which includes requiring noise mitigation measures for new developments in areas exposed to noise levels greater than 60 dBA CNEL.

The County of Riverside has adopted a Noise Element of the General Plan to control and abate environmental noise, and to protect the citizens of the County of Riverside from excessive exposure to noise. (15) The Noise Element specifies the maximum allowable exterior noise levels for new developments impacted by transportation noise sources such as arterial roads, freeways, airports, and railroads. In addition, the Noise Element identifies several polices to minimize the impacts of excessive noise levels throughout the community and establishes noise level requirements for all land uses. To protect County of Riverside residents from excessive noise, the Noise Element contains the following policies related to the Project:

N 1.1 Protect noise-sensitive land uses from high levels of noise by restricting noise-producing land uses from these areas. If the noise-producing land use cannot be relocated, then noise buffers such as setbacks, landscaping, or block walls shall be used.

N 1.3 Consider the following uses noise-sensitive and discourage these uses in areas in excess of 65 CNEL:

- *Schools*
- *Hospitals*
- *Rest Homes*
- *Long Term Care Facilities*
- *Mental Care Facilities*
- *Residential Uses*
- *Libraries*
- *Passive Recreation Uses*
- *Places of Worship*

N 1.5 Prevent and mitigate the adverse impacts of excessive noise exposure on the residents, employees, visitors, and noise-sensitive uses of Riverside County.

N 4.1 Prohibit facility-related noise, received by any sensitive use, from exceeding the following worst-case noise levels:

a. 45 dBA 9-minute L_{eq} between 10:00 p.m. and 7:00 a.m.;

b. 65 dBA 9-minute L_{eq} between 7:00 a.m. and 10:00 p.m.

N 13.1 Minimize the impacts of construction noise on adjacent uses within acceptable standards.

N 13.2 Ensure that construction activities are regulated to establish hours of operation in order to prevent and/or mitigate the generation of excessive or adverse impacts on surrounding areas.

N 13.3 Condition subdivision approval adjacent to developed/occupied noise-sensitive land uses (see policy N 1.3) by requiring the developer to submit a construction-related noise mitigation plan to the [County] for review and approval prior to issuance of a grading permit. The plan must depict the location of construction equipment and how the noise from this equipment will be mitigated during construction of this project, through the use of such methods as:

i. Temporary noise attenuation fences;

ii. Preferential location and equipment; and

iii. Use of current noise suppression technology and equipment.

N 14.1 Enforce the California Building Standards that sets standards for building construction to mitigate interior noise levels to the tolerable 45 CNEL limit. These standards are utilized in conjunction with the Uniform Building Code by the County's Building Department to ensure that noise protection is provided to the public. Some design features may include extra-dense insulation, double-paned windows, and dense construction materials.

N 16.3 Prohibit exposure of residential dwellings to perceptible ground vibration from passing trains as perceived at the ground or second floor. Perceptible motion shall be presumed to be a motion velocity of 0.01 inches/second over a range of 1 to 100 Hz.

To ensure noise-sensitive land uses are protected from high levels of noise (N 1.1), Table N-1 of the Noise Element identifies guidelines to evaluate proposed developments based on exterior and interior noise level limits for land uses and requires a noise analysis to determine needed mitigation measures if necessary. The Noise Element identifies residential use as a noise-sensitive land use (N

1.3) and discourages new development in areas with transportation-related levels of 65 dBA CNEL or greater existing ambient noise levels. To prevent and mitigate noise impacts for its residents (N 1.5), the County of Riverside requires exterior noise attenuation measures for sensitive land use exposed to transportation-related noise levels higher than 65 dBA CNEL. In addition, the MSWD had adopted an interior noise level limit of 45 dBA CNEL (N 14.1). Policy N 4.1 of the Noise Element sets a stationary-source exterior noise limit to not to be exceeded for a cumulative period of more than ten minutes in any hour of 65 dBA L_{eq} for daytime hours of 7:00 a.m. to 10:00 p.m., and 45 dBA L_{eq} during the noise-sensitive nighttime hours of 10:00 p.m. to 7:00 a.m. To prevent high levels of construction noise from impacting noise-sensitive land uses, policies N 13.1 through 13.3 identify construction noise mitigation requirements for new development located near existing noise-sensitive land uses. (15)

3.3 Operational Noise Standards (Absolute)

To analyze noise impacts originating from a designated fixed location or private property, such as the Project, operational source noise is typically evaluated against standards established under a County or City Code.

Desert Hot Springs

Section 8.12.030 (A) Noise disturbances prohibited (included in Appendix 3.1), states "It is unlawful and a public nuisance for any person to make, suffer, permit, allow, continue, or cause to be made, suffered, permitted, allowed, or continued, within the City limits or within 200 feet thereof, any noise disturbance." Section 8.12.030 (b) includes the following thirteen factors in determining whether a violation occurred: "the volume, level, and intensity of the noise; whether the nature of the noise is usual or unusual; whether the origin of the noise is natural or unnatural; the level and intensity of the background (ambient) noise, if any; the proximity of the noise to residential or commercial sleeping areas; the nature and zoning of the area within which the noise emanates; the density of inhabitation of the area within which the noise emanates; the time of day or night the noise occurs; the duration of the noise; whether the noise is constant, or recurrent or intermittent; the number of persons affected by the noise; whether the noise is produced by a commercial or noncommercial activity; and if the noise is produced by a commercial activity, whether the activity is lawful under this Code and whether the noise is one that could reasonably be expected from the commercial activity. The City of Desert Hot Springs does not specify specific noise level limits.

Palm Springs

Section 11.74.031 Noise Level Limit (included in Appendix 3.2) identifies exterior noise level standards to evaluate potential operational noise levels at noise-sensitive exterior use areas. The Palm Springs Municipal Code identifies residential property noise limits of 50 dBA Leq between the hours of 7 a.m. and 6 p.m., with noise limits of 45 dBA Leq between the hours of 6 p.m. and 10 p.m., and noise limits of 40 dBA Leq between the hours of 10 p.m. and 7 a.m.. (15) If the measured ambient noise level exceeds the standards in Section 11.74.031, the ambient noise level becomes the standard.

County of Riverside

The County of Riverside General Plan Noise Element Policy N 4.1 of the County of Riverside General Plan Noise Element sets a stationary-source average L_{eq} exterior noise limit not to be exceeded for a cumulative period of more than ten minutes in any hour of 65 dBA L_{eq} for daytime hours of 7:00 a.m. to 10:00 p.m., and 45 dBA L_{eq} during the noise-sensitive nighttime hours of 10:00 p.m. to 7:00 a.m. (15) 3.4 Construction Noise Standards (Absolute)

To control noise impacts associated with the construction of the proposed Project, the City of Desert Hot Springs has established limits to the hours of work permitted. Section 9.04.030 of the City's Code of Ordinances, provided in Appendix 3.1, indicates that construction activity is not permitted between the hours of 5:00 p.m. each day and 7:00 a.m. of the next day, except when daylight savings time is in effect. During such time as daylight savings time is in effect in the City, no such activities shall be permitted between the hours of 6:00 p.m. of each day and 6:00 a.m. of the next day, and no construction activities are permitted on Sundays. (16) The City of Palm Springs Municipal Code, Section 8.04.220, included in Appendix 3.1, indicates that construction shall be limited to the hours of 7:00 a.m. to 7:00 p.m. weekdays, and from 8:00 a.m. to 5:00 p.m. on Saturdays. Construction activity is not permitted on Sundays or major holidays. (17) Riverside County Ordinance No. 847 Regulating Noise Section 2i (Code Section 9.52.020[I]) indicates that noise associated with any private construction activity located within one-quarter of a mile from an inhabited dwelling is considered exempt between the hours of 6:00 a.m. and 6:00 p.m., during the months of June through September, and 7:00 a.m. and 6:00 p.m., during the months of October through May. (18)

However, neither General Plans nor Codes of these agencies establish numeric maximum acceptable construction source noise levels at potentially affected receivers, which would allow for a quantified determination of what CEQA constitutes a *substantial temporary or permanent increase in ambient noise levels*. Therefore, a numerical construction threshold based on the Federal Transit Administration (FTA) Transit Noise and Vibration Impact Assessment Manual is used for analysis of daytime construction impacts, as discussed below.

Guidance for construction noise analysis published by the Federal Transit Administration (FTA) is appropriate and based on well-documented studies of the effects of construction noise. According to the FTA *Transit Noise and Vibration Impact Assessment Manual,* local noise ordinances are typically not very useful in evaluating construction noise impacts. They usually relate to nuisance and hours of allowed activity, and sometimes specify limits in terms of maximum levels, but are generally not practical for assessing the impact of a construction project. Project construction noise criteria should account for the existing noise environment, the absolute noise levels during construction activities, the duration of the construction, and the adjacent land use. (8 p. 172)

Due to the lack of standardized construction noise thresholds, the FTA provides guidelines that can be considered reasonable criteria for construction noise assessments. The FTA identifies two types of construction noise assessment criteria, general and detailed. For general construction noise assessments, the analysis is limited to the two noisiest pieces of equipment with an hourly daytime exterior noise level threshold for residential land use of 90 dBA $L_{eq(1hr)}$. (8 p. 179) However, for long-term construction projects that would expose sensitive receivers to noise for extended periods of time, the FTA considers a daytime 8-hour average exterior construction noise level of 80 dBA $L_{eq(8hr)}$.

The absolute FTA thresholds are intended to account for reasonable expectations regarding construction noise during the daytime hours and are intended to protect human health.

Therefore, to evaluate whether the Project will generate potentially significant short-term noise levels at nearby noise-sensitive residential receiver locations, a daytime exterior construction noise level of 80 dBA L_{eq} and a nighttime exterior construction noise level of 70 dBA L_{eq} are used as reasonable thresholds to assess construction noise level impacts based on the FTA detailed analysis of construction noise criteria. (8)

3.5 CONSTRUCTION VIBRATION STANDARDS

Construction activity can result in varying degrees of ground-borne vibration, depending on the equipment and methods used, distance to the affected structures, and soil type. Construction vibration is generally associated with pile driving and rock blasting. Other construction equipment, such as air compressors, light trucks, hydraulic loaders, etc., generates little or no ground vibration. (8) To analyze vibration impacts originating from the operation and construction of the Project, vibration-generating activities are appropriately evaluated against standards established under the Municipal Code if such standards exist. However, the City of Desert Hot Springs, the City of Palm Springs, and the County of Riverside do not identify specific construction vibration level limits. Therefore, for analysis purposes, the Caltrans *Transportation and Construction Vibration Guidance Manual*, (11 p. 38) Table 19, vibration damage is used in this noise study to assess potential temporary construction-related impacts at adjacent building locations. The nearest vibration-sensitive buildings adjacent to the Project site can best be described as "older residential structures" with a maximum acceptable continuous vibration threshold of 0.3 PPV (in/sec).

4 SIGNIFICANCE CRITERIA

The MSWD has considered the regulatory environment of the Cities of Desert Hot Springs and Palm Springs, as well as the County of Riverside, and based on the currently adopted guidance provided by Appendix G of the California Environmental Quality Act (CEQA) Guidelines (1) For the purposes of this report, impacts would be potentially significant if the Project results in or causes:

A. Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?

B. Generation of excessive ground-borne vibration or ground-borne noise levels?

C. For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?

4.1 NOISE LEVEL INCREASES (THRESHOLD A)

Noise level increases resulting from the Project are evaluated based on the Appendix G CEQA Guidelines. Under CEQA, consideration must be given to the magnitude of the increase, the existing baseline ambient noise levels, and the location of receivers to determine if a noise increase represents a significant adverse environmental impact. This approach recognizes that there is no single noise increase that renders the noise impact significant. (19) This is primarily because of the wide variation in individual thresholds of annoyance and differing individual experiences with noise. Thus, an important way of determining a person's subjective reaction to a new noise is the comparison of it to the existing environment to which one has adapted—the so-called ambient environment.

4.1.1 Noise Sensitive Receivers (Substantial Permanent Noise Level Increase)

The Federal Interagency Committee on Noise (FICON) (20) developed guidance to be used for the assessment of project-generated increases in noise levels that considers the ambient noise level. The FICON recommendations are based on studies that relate aircraft noise levels to the percentage of persons highly annoyed by aircraft noise. Although the FICON recommendations were specifically developed to assess aircraft noise impacts, these recommendations are often used in environmental noise impact assessments involving the use of cumulative noise exposure metrics, such as the average-daily noise level (CNEL) and equivalent continuous noise level (Leq). In general, the more a new noise level exceeds the previously existing ambient noise level, the less acceptable the new noise level will typically be judged.

As previously stated, the approach used in this noise study recognizes that there is no single noise increase that renders a noise impact significant, based on a 2008 California Court of Appeal ruling on Gray v. County of Madera. (19) For example, if the ambient noise environment is quiet (<60 dBA) and the new noise source greatly increases the noise levels, an impact may occur if the noise criteria may be exceeded. Therefore, for this analysis, a readily perceptible 5 dBA or greater project-related noise level increase is considered a significant impact when the without-project noise levels are below 60 dBA. Per the FICON, in areas where the without project noise levels range from 60 to 65 dBA, a 3 dBA barely perceptible noise level increase appears to be appropriate for most people.

When the without project noise levels already exceed 65 dBA, any increase in community noise louder than 1.5 dBA or greater is considered a significant impact if the noise criteria for a given land use is exceeded, since it likely contributes to an existing noise exposure exceedance.

The FICON guidance provides an established source of criteria to assess the impacts of substantial temporary or permanent increase in baseline ambient noise levels. Based on the FICON criteria, the amount to which a given noise level increase is considered acceptable is reduced when the without Project (baseline) noise levels are already shown to exceed certain land-use specific exterior noise level criteria. The specific levels are based on typical responses to noise level increases of 5 dBA or readily perceptible, 3 dBA or barely perceptible, and 1.5 dBA depending on the underlying without Project noise levels for noise-sensitive uses. These levels of increases and their perceived acceptance are consistent with guidance provided by both the Federal Highway Administration (4 p. 9) and Caltrans (21 p. 2_48).

4.1.2 Construction Noise (Substantial Temporary Noise Level Increase)

To evaluate the noise-generating construction activities, the temporary noise level increases over the existing ambient conditions must be considered under CEQA Significance Threshold A. As discussed in Section 3.4, the City of Desert Hot Springs limits the hours of construction activities, however, the County has not adopted a noise increase limit for construction sources in relation to temporary noise level increases over the existing ambient conditions.

In 2024, the City of Los Angeles adopted a temporary construction noise increase threshold for the review and preparation of environmental analysis under CEQA. (22) The City of Los Angeles CEQA threshold document was developed based on input from technical experts, including a Technical Advisory Committee consisting of noise consultants and experts with decades of experience in preparing noise studies, and included a public process and review of noise thresholds used by other state and local agencies. The City of Los Angeles supported by substantial evidence found that 10 dBA construction noise increase thresholds previously employed in the City of Los Angeles to be overly conservative, especially in the context of impacts on public health that often results in significant impact determination, even for routine construction activities that are expected to occur in an urban environment. (23 p. 7) Based on these findings, City of Los Angeles identified a daytime 80 dBA $L_{eq(8hr)}$ absolute construction noise threshold and a 5 dBA nighttime construction noise increase threshold with no increase threshold for daytime construction activities. In developing its thresholds, the City of Los Angeles noted that an 80 dBA $L_{eq(8hr)}$ absolute threshold could result in 10 to 25 dBA increases over ambient, which would be noticeable, but temporary.

Although noise ordinances vary by jurisdiction, many cities and counties in California—including Los Angeles, San Diego, and San Francisco—establish absolute construction noise limits in the range of 75 to 80 dBA L_{eq} and generally restrict construction activities to daytime hours. In contrast, operational noise standards are more stringent because they apply to continuous, long-term noise sources that can substantially affect quality of life. As a result, establish daytime operational noise limits around 60 dBA L_{eq}. This indicates that a temporary increase of up to 20 dBA above the daytime operational limit may be reasonably tolerated without resulting in significant adverse effects. While this analysis relies on the 20 dBA L_{eq} *substantial* noise increase threshold, it is important to recognize

that other jurisdictions within the State, including the City of Los Angeles, no longer maintain any daytime noise increase thresholds. Therefore, if the Project-related construction noise levels generate a temporary noise level increase over the existing daytime ambient noise levels of more than 20 dBA L_{eq} or 5 dBA L_{eq} over the existing nighttime ambient noise levels, then the Project construction noise increases will be considered a *significant* impact.

4.2 VIBRATION (THRESHOLD B)

As described in Section 3.4, the vibration impacts originating from the construction of the Project, vibration-generating activities are appropriately evaluated using standards established by the Caltrans *Transportation and Construction Vibration Guidance Manual*, Table 19. The Caltrans' vibration thresholds for building damage are used in this noise study to assess potential operational and temporary construction-related impacts at adjacent building locations. A maximum acceptable continuous vibration threshold of 0.30 PPV (in/sec) is used to describe the nearest residential buildings adjacent to the Project site.

4.3 CEQA GUIDELINES NOT FURTHER ANALYZED (THRESHOLD C)

CEQA Noise Threshold C applies when there are nearby public and private airports and/or airstrips and focuses on land use compatibility of the Project to nearby airports and airstrips. The Project site is not located within two miles of an airport or airstrip. The closest major airport is the Palm Springs International Airport (PSIA), located over 3.6 miles south of the Project site. As such, the Project site would not be exposed to excessive noise levels from airport operations, and therefore, impacts are considered less than significant, and no further noise analysis is conducted in relation to Appendix G to the CEQA Guidelines, Noise Threshold C.

4.4 SIGNIFICANCE CRITERIA SUMMARY

As indicated, the MSWD has considered the regulatory environment of the Cities of Desert Hot Springs and Palm Springs, as well as the County of Riverside and the currently adopted guidance provided by Appendix G of the California Environmental Quality Act (CEQA) Guidelines, and noise impacts shall be considered significant if any of the following occur as a direct result of the proposed development. Table 4-1 shows the significance criteria summary matrix that includes the allowable criteria used to identify potentially significant incremental noise level increases.

TABLE 4-1: SIGNIFICANCE CRITERIA SUMMARY

Analysis	Receiving Land Use	Condition(s)	Significance Criteria	
			Daytime	Nighttime
Off-Site Traffic	Noise-Sensitive[1]	If ambient is < 60 dBA CNEL	≥ 5 dBA CNEL Project increase	
		If ambient is 60 - 65 dBA CNEL	≥ 3 dBA CNEL Project increase	
		If ambient is > 65 dBA CNEL	≥ 1.5 dBA CNEL Project increase	
Operational	Noise-Sensitive	Residential Exterior Noise Level[2]	65 dBA L_{eq}	45 dBA L_{eq}
		If ambient is < 60 dBA Leq[1]	≥ 5 dBA L_{eq} Project increase	
		If ambient is 60 - 65 dBA Leq[1]	≥ 3 dBA L_{eq} Project increase	
		If ambient is > 65 dBA Leq[1]	≥ 1.5 dBA L_{eq} Project increase	
Construction	Noise-Sensitive	Noise Level Threshold[3]	80 dBA L_{eq}	70 dBA L_{eq}
		Exterior Noise Level Increase	20 dBA L_{eq}	5 dBA L_{eq}
		Vibration Level Threshold[4]	0.30 PPV (in/sec)	

[1] FICON, 1992.
[2] Country of Riverside, General Plan Policy 4.1.
[3] Federal Transit Administration, Transit Noise and Vibration Impact Assessment Manual.
[4] Caltrans Transportation and Construction Vibration Manual, April 2020 Table 19
"Daytime" = 7:00 a.m. to 10:00 p.m.; "Nighttime" = 10:00 p.m. to 7:00 a.m.

5 EXISTING NOISE LEVEL MEASUREMENTS

To assess the existing noise level environment, 24-hour noise level measurements were taken at twenty locations in the Project study area. The receiver locations were selected to describe and document the existing noise environment within the Project study area. Exhibit 5-1 provides the boundaries of the Project study area and the noise level measurement locations. To fully describe the existing noise conditions, long-term noise level measurements were collected by Urban Crossroads, Inc. on Thursday, January 26, 2024. Appendix 5.1 includes study area photos.

5.1 MEASUREMENT PROCEDURE AND CRITERIA

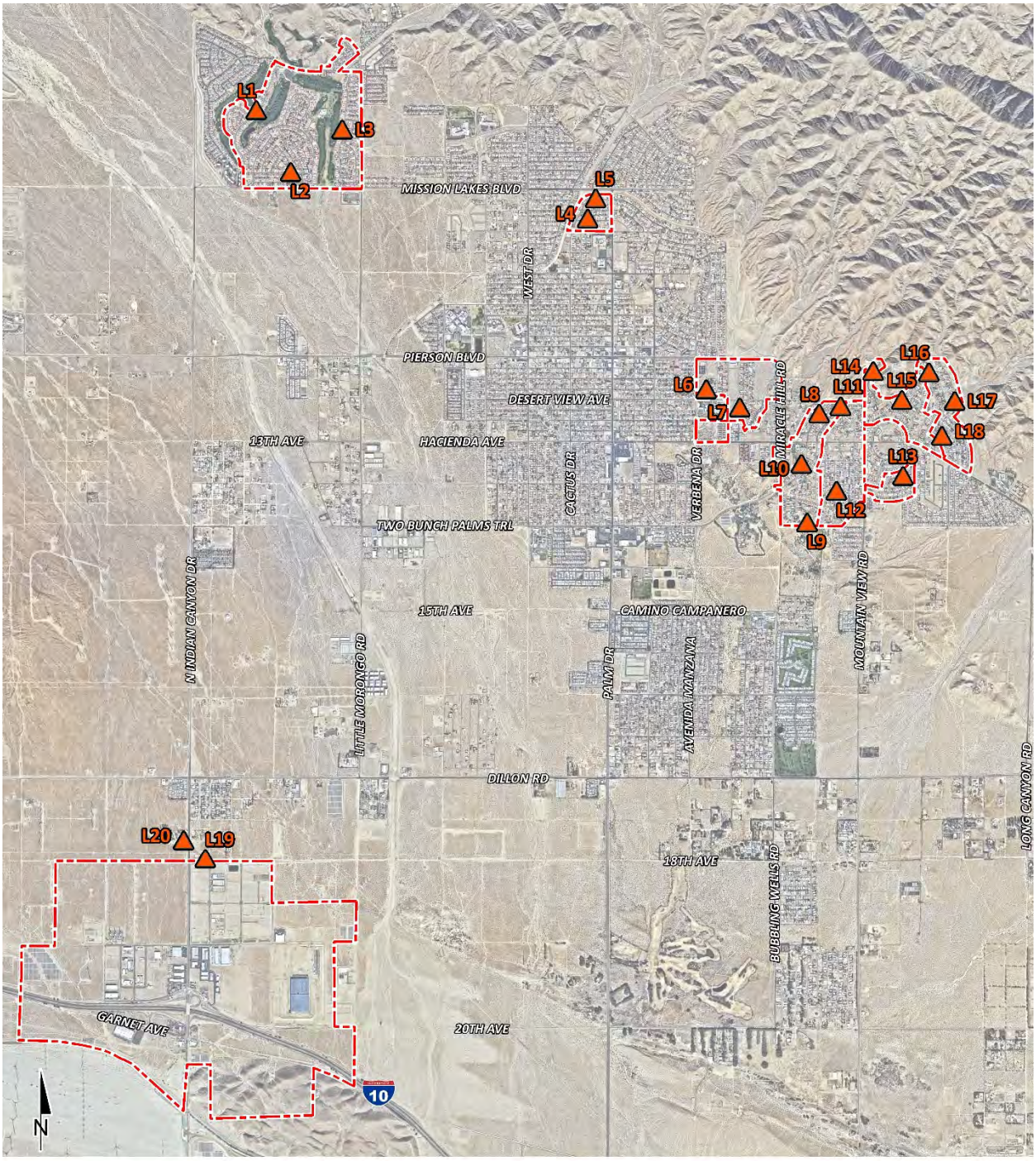
To describe the existing noise environment, the hourly noise levels were measured during typical weekday conditions over a 24-hour period. By collecting individual hourly noise level measurements, it is possible to describe the equivalent daytime and nighttime hourly noise levels. The long-term noise readings were recorded using Piccolo Type 2 integrating sound level meter and dataloggers. The Piccolo sound level meters were calibrated using a Larson-Davis calibrator, Model CAL 150. All noise meters were programmed in "slow" mode to record noise levels in "A" weighted form. The sound level meters and microphones were equipped with a windscreen during all measurements. All noise level measurement equipment satisfies the American National Standards Institute (ANSI) standard specifications for sound level meters, ANSI S1.4-2014/IEC 61672-1:2013. (24)

5.2 NOISE MEASUREMENT LOCATIONS

The long-term noise level measurements were positioned as close to the nearest sensitive receiver locations as possible to assess the existing equivalent hourly noise levels surrounding the Project site. Both Caltrans and the FTA recognize that it is not reasonable to collect noise level measurements that can fully represent every part of a private yard, patio, deck, or balcony normally used for human activity when estimating impacts for new development projects. This is demonstrated in the Caltrans general site location guidelines, which indicate that sites must be free of noise contamination by sources other than sources of interest. Avoid sites located near sources such as barking dogs, lawnmowers, pool pumps, and air conditioners unless it is the express intent of the analyst to measure these sources. (2) Further, FTA guidance states that it is not necessary nor recommended that existing noise exposure be determined by measuring at every noise-sensitive location in the project area. Rather, the recommended approach is to characterize the noise environment for clusters of sites based on measurements or estimates at representative locations in the community. (8)

Based on recommendations of Caltrans and the FTA, it is not necessary to collect measurements at each individual building or residence, because each receiver measurement represents a group of buildings that share acoustical equivalence. (8) In other words, the area represented by the receiver shares similar shielding, terrain, and geometric relationships to the reference noise source. Receivers represent a location of noise-sensitive areas and are used to estimate the future noise level impacts.

EXHIBIT 5-1: NOISE MEASUREMENT LOCATIONS



Collecting noise level measurements at the nearby sensitive receiver locations allows for a comparison of the before and after Project noise levels and is necessary to assess potential noise increase due to the Project's contribution to the ambient noise levels. This approach is necessary to calculate the temporary or permanent increase in ambient noise levels as required by the CEQA Guidelines Environmental Checklist.

5.3 NOISE MEASUREMENT RESULTS

The noise measurements presented below focus on the equivalent or the hourly energy average sound levels (L_{eq}) to describe the existing ambient conditions. Table 5-1 provides the (energy average) noise levels used to describe the hourly daytime (7:00 a.m. to 10:00 p.m.) and nighttime (10:00 p.m. to 7:00 a.m.) noise levels at each noise level measurement location. The equivalent sound level (L_{eq}) represents a steady state sound level containing the same total energy as a time-varying signal over a given sample period. The daytime and nighttime equivalent noise levels represent the average of all hourly noise levels observed during these time periods expressed as a single number.

Table 5-1 provides the equivalent noise levels used to describe the daytime and nighttime ambient conditions for each of the measurements. Appendix 5.2 provides summary worksheets of the noise levels for each hour as well as the minimum, maximum, L1, L2, L5, L8, L25, L50, L90, L95, and L99 percentile noise levels observed during the daytime and nighttime periods.

TABLE 5-1: AMBIENT NOISE LEVEL MEASUREMENTS

Location[1]	Description	Energy Average Noise Level (dBA L_{eq})[2]		CNEL
		Daytime	Nighttime	
L1	Located near the residence at 9045 Clubhouse Blvd.	55.7	53.2	57.5
L2	Located near the residence at 64537 Spyglass Ave.	59.2	55.4	59.2
L3	Located near the residence at 9100 Oakmount Blvd.	57.6	57.2	60.8
L4	Located near the residence at 66334 San Juan Rd.	49.8	47.7	52.9
L5	Located near the residence at 66402 Cactus Dr.	56.2	55.6	59.2
L6	Located near the residence at 12256 Ambrosio Dr.	62.3	57.2	61.8
L7	Located near the residence at 12550 Tamar Dr.	54.9	54.4	59.4
L8	Located near the residence at 12780 Agua Cayendo Rd.	48.4	45.3	51.4
L9	Located near the residence at 67600 Monterey Rd.	59.0	47.6	57.1
L10	Located near the residence at 13080 Agua Cayendo Rd.	52.2	48.7	54.8
L11	Located near the residence at 12550 Hidalgo St.	50.5	45.4	51.3
L12	Located near the residence at 13666 Hermano Way.	56.6	51.5	58.6
L13	Located near the residence at 68272 C. Blanco.	51.9	53.0	57.7
L14	Located near the residence at 12100 Highland Ave.	53.4	50.5	54.9
L15	Located near the residence at 12690 Avenida Alta Loma.	56.8	52.3	58.3
L16	Located near the residence at 12110 Redbud Rd.	46.9	43.4	49.4
L17	Located near the residence at 12565 Skyline Dr.	53.3	57.9	53.1
L18	Located near the residence at 12775 Beech Ave.	50.3	44.0	51.0
L19	Located near the residence at 64050 18th Ave.	65.3	65.7	69.7
L20	Located near the residence at 17725 Covey St.	61.7	60.3	65.6

[1] See Exhibit 5-A for the noise level measurement locations.
[2] Energy (logarithmic) average levels. The long-term 24-hour measurement worksheets are included in Appendix 5.2. "Daytime" = 7:00 a.m. to 10:00 p.m.; "Nighttime" = 10:00 p.m. to 7:00 a.m.

6 RECEIVER LOCATIONS

To assess the potential for long-term operational and short-term construction noise impacts, the following receiver locations, as shown on Exhibit 8-1, were identified as representative locations for analysis. The selection of receiver locations is based on FHWA guidelines and is consistent with additional guidance provided by Caltrans and the FTA, as previously described in Section 5.2. Sensitive receivers are generally defined as locations where people reside or where the presence of unwanted sound could otherwise adversely affect the use of the land. Noise-sensitive land uses are generally considered to include schools, hospitals, single-family dwellings, mobile home parks, churches, libraries, and recreation areas. Moderately noise-sensitive land uses typically include multi-family dwellings, hotels, motels, dormitories, out-patient clinics, cemeteries, golf courses, country clubs, athletic/tennis clubs, and equestrian clubs. Land uses that are considered relatively insensitive to noise include business, commercial, and professional developments. Land uses that are typically not affected by noise include: industrial, manufacturing, utilities, agriculture, undeveloped land, parking lots, warehousing, liquid and solid waste facilities, salvage yards, and transit terminals.

To describe the potential off-site Project noise levels, twenty receiver locations in the vicinity of the Project site were identified. Other sensitive land uses in the Project study area that are located at greater distances than those identified in this noise study will experience lower noise levels than those presented in this report due to the additional attenuation from distance and the shielding of intervening structures.

R1: Location R1 represents the existing residence 9045 Clubhouse Blvd. Receiver R1 is placed in the private outdoor living area (backyard) facing the Project site. A 24-hour noise measurement was taken near this location, L1, to describe the existing ambient noise environment.

R2: Location R2 represents the existing residence at 64537 Spyglass Ave. Receiver R2 is placed in the private outdoor living area (backyard) facing the Project site. A 24-hour noise measurement was taken near this location, L2, to describe the existing ambient noise environment.

R3: Location R3 represents the existing residence at 9100 Oakmount Blvd. Receiver R3 is placed in the private outdoor living area (backyard) facing the Project site. A 24-hour noise measurement was taken near this location, L3, to describe the existing ambient noise environment.

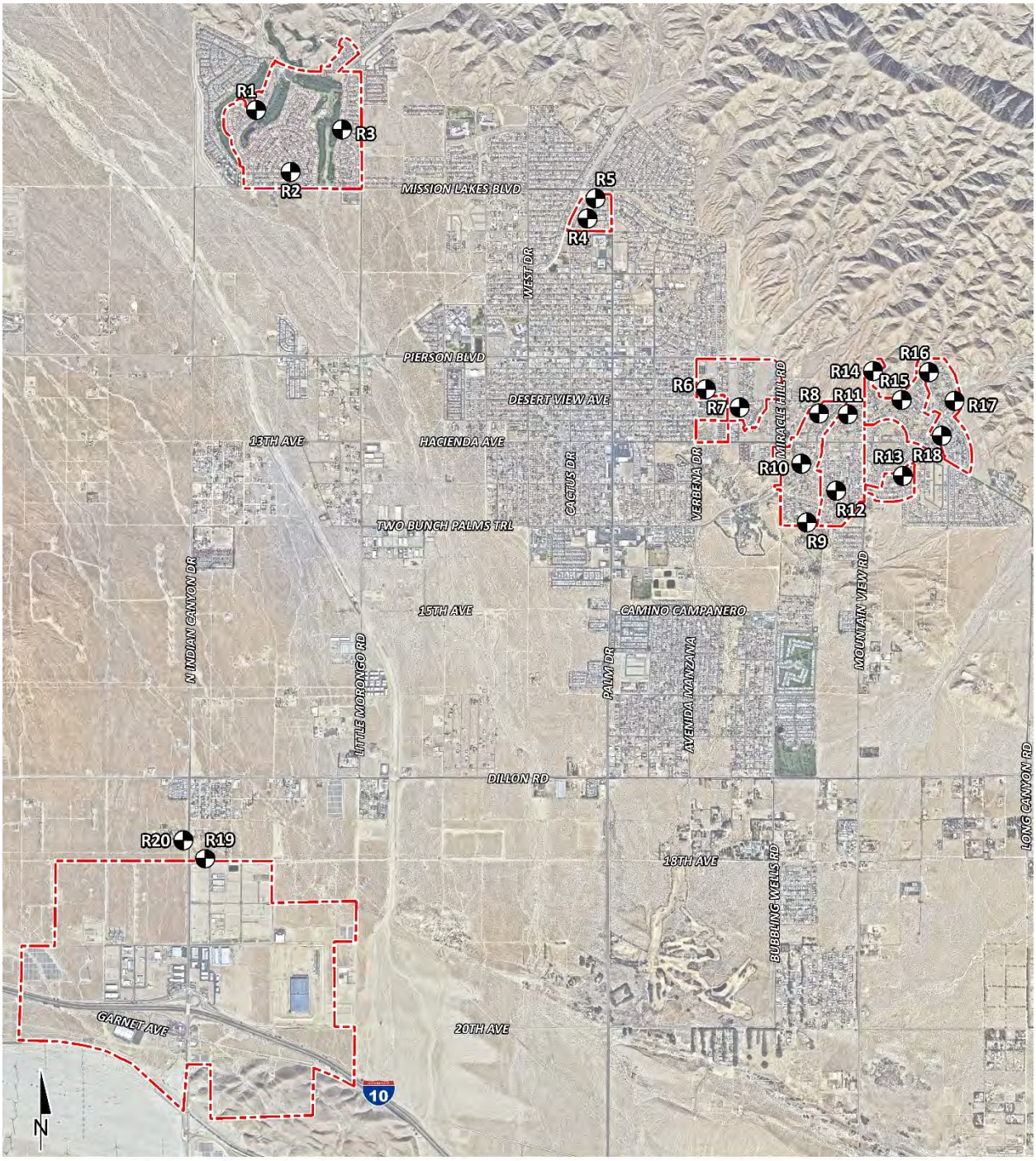
R4: Location R4 represents the existing residence at 66334 San Juan Rd. Receiver R4 is placed in the private outdoor living area (backyard) facing the Project site. A 24-hour noise measurement was taken near this location, L4, to describe the existing ambient noise environment.

R5: Location R5 represents the existing residence at 66402 Cactus Dr. Receiver R5 is placed in the private outdoor living area (backyard) facing the Project site. A 24-hour noise measurement was taken near this location, L5, to describe the existing ambient noise environment.

R6: Location R6 represents the existing residence at 12256 Ambrosio Dr. Receiver R6 is placed in the private outdoor living area (backyard) facing the Project site. A 24-hour noise measurement was taken near this location, L6, to describe the existing ambient noise environment.

R7: Location R7 represents the existing residence at 12550 Tamar Dr. Receiver R7 is placed in the private outdoor living area (backyard) facing the Project site. A 24-hour noise measurement was taken near this location, L7, to describe the existing ambient noise environment.

EXHIBIT 8-1: RECEIVER LOCATIONS



LEGEND:

Site Boundary Receiver Locations

R8: Location R8 represents the existing residence at 12780 Agua Cayendo Rd. Receiver R8 is placed in the private outdoor living area (backyard) facing the Project site. A 24-hour noise measurement was taken near this location, L8, to describe the existing ambient noise environment.

R9: Location R9 represents the existing residence at 67600 Monterey Rd. Receiver R9 is placed in the private outdoor living area (backyard) facing the Project site. A 24-hour noise measurement was taken near this location, L9, to describe the existing ambient noise environment.

R10: Location R10 represents the existing residence at 13080 Agua Cayendo Rd. Receiver R10 is placed in the private outdoor living area (backyard) facing the Project site. A 24-hour noise measurement was taken near this location, L10, to describe the existing ambient noise environment.

R11: Location R11 represents the existing residence at 12550 Hidalgo St. Receiver R11 is placed in the private outdoor living area (backyard) facing the Project site. A 24-hour noise measurement was taken near this location, L11, to describe the existing ambient noise environment.

R12: Location R12 represents the existing residence at 13666 Hermano Way. Receiver R12 is placed in the private outdoor living area (backyard) facing the Project site. A 24-hour noise measurement was taken near this location, L12, to describe the existing ambient noise environment.

R13: Location R13 represents the existing residence at 68272 C. Blanco. Receiver R13 is placed in the private outdoor living area (backyard) facing the Project site. A 24-hour noise measurement was taken near this location, L13, to describe the existing ambient noise environment.

R14: Location R14 represents the existing residence at 12100 Highland Ave. Receiver R14 is placed in the private outdoor living area (backyard) facing the Project site. A 24-hour noise measurement was taken near this location, L14, to describe the existing ambient noise environment.

R15: Location R15 represents the existing residence at 12690 Avenida Alta Loma. Receiver R15 is placed in the private outdoor living area (backyard) facing the Project site. A 24-hour noise measurement was taken near this location, L15, to describe the existing ambient noise environment.

R16: Location R16 represents the existing residence at 12110 Redbud Rd. Receiver R16 is placed in the private outdoor living area (backyard) facing the Project site. A 24-hour noise measurement was taken near this location, L16, to describe the existing ambient noise environment.

R17: Location R17 represents the existing residence at 12565 Skyline Dr. Receiver R17 is placed in the private outdoor living area (backyard) facing the Project site. A 24-hour noise measurement was taken near this location, L17, to describe the existing ambient noise environment.

R18: Location R18 represents the existing residence at 12775 Beech Ave. Receiver R18 is placed in the private outdoor living area (backyard) facing the Project site. A 24-hour noise measurement was taken near this location, L18, to describe the existing ambient noise environment.

R19: Location R19 represents the existing residence at 64050 18th Ave. Receiver R19 is placed in the private outdoor living area (backyard) facing the Project site. A 24-hour noise measurement was taken near this location, L19, to describe the existing ambient noise environment.

R20: Location R20 represents the existing residence at 17725 Covey St. Receiver R20 is placed in the private outdoor living area (backyard) facing the Project site. A 24-hour noise measurement was taken near this location, L20, to describe the existing ambient noise environment.

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7 OPERATIONAL NOISE ANALYSIS

The Project would construct new sewer lines and abate existing septic systems. None of the new systems would represent new long-term noise sources, nor would they generate new traffic on local roadways. Therefore, operational noise impacts would be *less than significant*.

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8 CONSTRUCTION IMPACTS

This section analyzes potential impacts resulting from the short-term construction activities associated with the development of the Project. Exhibit 8-1 shows the on-site construction noise source activity, including the off-site roadway and utility improvements, in relation to the nearest sensitive receiver locations previously described in Section 6, Receiver Locations.

8.1 CONSTRUCTION NOISE LEVELS

The FTA Transit Noise and Vibration Impact Assessment Manual recognizes that construction projects are accomplished in several different stages and outlines the procedures for assessing noise impacts during construction. Each stage has a specific equipment mix, depending on the work to be completed during that stage. As a result of the equipment mix, each stage has its own noise characteristics; some stages have higher continuous noise levels than others, and some have higher impact noise levels than others. The Project construction activities are expected to occur in the following stages:

- Pavement Removal/Demolition
- Road Base/Trenching
- Pipeline Placement
- Paving
- Septic System Abatement

8.2 CONSTRUCTION REFERENCE NOISE LEVELS

To describe construction noise activities, this construction noise analysis was prepared using reference construction equipment noise levels from the Federal Highway Administration (FHWA), which published the Roadway Construction Noise Model (RCNM), which includes a national database of construction equipment reference noise emission levels. (25) The RCNM equipment database provides a comprehensive list of the noise-generating characteristics of specific types of construction equipment. In addition, the database provides an acoustical usage factor to estimate the fraction of time each piece of construction equipment is operating at full power (i.e., its loudest condition) during a construction operation. According to the EPA, FTA, and FHWA, the overall construction noise level is governed primarily by the noisiest pieces of equipment. The quieter pieces do not affect the overall level, but they do reduce the magnitude of the fluctuations in the noise level. Therefore, a rough estimate of the noise level needs only include the noisiest pieces of equipment expected at the site. (26) (8) (27) Consistent with FHWA and FTA guidance for detailed construction noise assessment, Table 8-1 presents the combined noise levels for the loudest construction activities expected for each stage, assuming all equipment operates simultaneously.

EXHIBIT 8-1: SEWER CONSTRUCTION NOISE SOURCE LOCATIONS

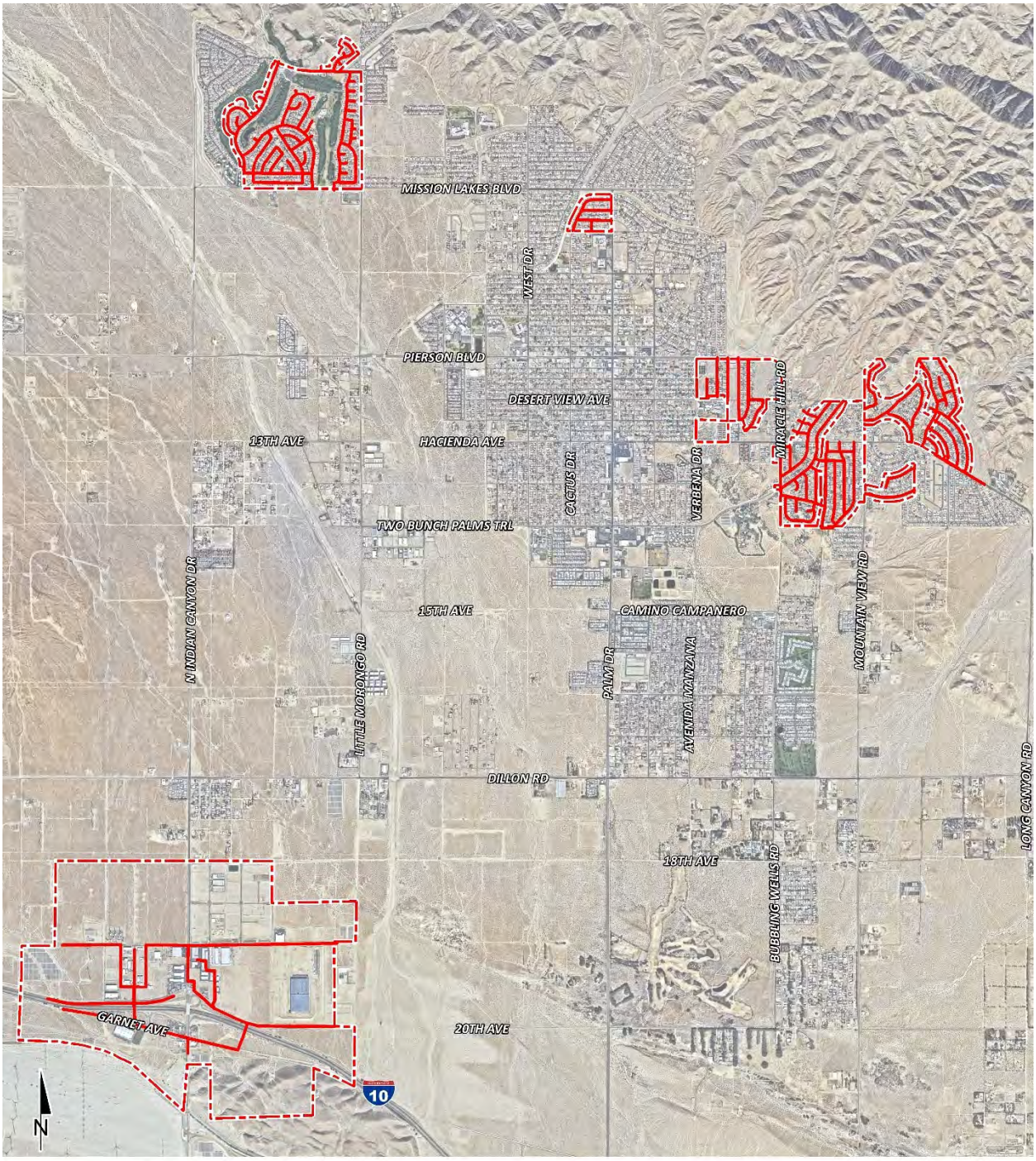

TABLE 8-1: CONSTRUCTION REFERENCE NOISE LEVELS

Construction Stage	Reference Construction Equipmnet[1]	Reference Noise Level @ 50 Feet (dBA L_{eq})	Composite Reference Noise Level (dBA L_{eq})	Reference Power Level (dBA L_w)
Pavement Removal/ Demolition	Concrete Saw	83	84.1	115.7
	Backhoe	74		
	Front End Loader	75		
Road Base/ Trenching	Excavator	77	79.5	111.2
	Compactor (ground)	76		
	Dozer	22		
Pipeline Placement	Excavator	77	79.6	111.3
	Front End Loader	75		
	Welder/Torch	70		
Paving	Paver	74	77.8	109.5
	Dump Truck	72		
	Roller	73		
Septic System Abatement	Backhoe	74	74.0	105.6

[1] FHWA Road Construction Noise Model.
[2] Update of noise database for prediction of noise on construction and open site expressed in hourly average Leq based on estimated usage factor.

8.3 CADNAA NOISE PREDICTION MODEL

To fully describe the exterior operational noise levels from the Project, Urban Crossroads, Inc. developed a noise prediction model using the CadnaA (Computer Aided Noise Abatement) computer program. CadnaA can analyze multiple types of noise sources using the spatially accurate Project site plan, georeferenced Nearmap aerial imagery, topography, buildings, and barriers in its calculations to predict outdoor noise levels. Using the ISO 9613-2 protocol, CadnaA will calculate the distance from each noise source to the noise receiver locations, using the ground absorption, distance, and barrier/building attenuation inputs to provide a summary of noise level at each receiver and the partial noise level contributions by noise source.

Consistent with the ISO 9613-2 protocol, the CadnaA noise prediction model relies on the reference sound power level (Lw) to describe individual noise sources. While sound pressure levels (e.g., Leq) quantify in decibels the intensity of given sound sources at a reference distance, sound power levels (Lw) are connected to the sound source and are independent of distance. Sound pressure levels vary substantially with distance from the source and diminish because of intervening obstacles and barriers, air absorption, wind, and other factors. Sound power is the acoustical energy emitted by the sound source and is an absolute value that is not affected by the environment. The operational noise level calculations provided in this noise study account for the distance attenuation provided due to geometric spreading, when sound from a localized stationary source (i.e., a point source) propagates uniformly outward in a spherical pattern. A default ground attenuation factor of 0.66 was used in the noise analysis to account for mixed ground representing a combination of hard and

soft surfaces. Appendix 8.1 includes the detailed noise dBA L_{eq} model inputs used to estimate the Project operational noise levels presented in this section.

8.4 SEWER PIPELINE CONSTRUCTION NOISE ANALYSIS

Construction projects involve various stages, and activities frequently shift from one location to another. For example, during site preparation and grading, noise-generating activities may concentrate in an area for a short period to remove an obstruction, while the majority of the grading involves the equipment moving back and forth in a predictable pattern throughout the site; building construction and foundation work generally concentrate near the building footprint, while paving generally involves a predictable pattern of movement throughout the site. Therefore, construction activities are best evaluated as multiple moving point sources within the construction area since the speed and power of the equipment vary, and the equipment constantly changes position in terms of its distance and direction relative to the receivers. (8) (28) Using the reference construction equipment noise levels and the CadnaA noise prediction model, calculations of the Project construction noise level impacts by phase at the nearby sensitive receiver locations were completed. To account for the dynamic nature of construction activities, the CadnaA construction noise analysis evaluates the noise source activities as multiple moving point sources, or construction crews, within the limits of construction. Construction impacts are based on the loudest activity and the highest noise level calculated at each receiver location. As shown in Table 8-2, the construction noise levels are expected to range from 44.6 to 75.2 dBA L_{eq} at the nearby receiver locations. Appendix 8.1 includes the detailed CadnaA construction noise model inputs.

8.5 DAYTIME SEWER PIPELINE CONSTRUCTION NOISE LEVEL COMPLIANCE

To evaluate whether the Project will generate potentially significant short-term noise levels at the nearest receiver locations, a construction-related daytime noise level threshold of 80 dBA L_{eq} is used as a reasonable threshold to assess the daytime construction noise level impacts. The construction noise analysis shows that the nearest receiver locations will satisfy the reasonable daytime 80 dBA L_{eq} significance threshold during Project construction activities, as shown in Table 8-3. Therefore, the noise impacts due to the Project construction noise are considered less than significant at all receiver locations.

TABLE 8-2: DAYTIME CONSTRUCTION EQUIPMENT NOISE LEVEL SUMMARY

Receiver Location[1]	Pavement Removal/ Demolition	Road Base/ Trenching	Pipeline Placement	Paving	Highest Levels[2]
R1	66.5	62.0	62.0	60.3	66.5
R2	74.1	69.6	69.6	67.9	74.1
R3	71.4	66.9	66.9	65.2	71.4
R4	74.5	70.0	70.0	68.3	74.5
R5	71.5	67.0	67.0	65.3	71.5
R6	75.2	70.7	70.7	69.0	75.2
R7	72.3	67.8	67.8	66.1	72.3
R8	72.4	67.9	67.9	66.2	72.4
R9	72.3	67.8	67.8	66.1	72.3
R10	72.2	67.7	67.7	66.0	72.2
R11	63.8	59.3	59.3	57.6	63.8
R12	70.7	66.2	66.2	64.5	70.7
R13	71.8	67.3	67.3	65.6	71.8
R14	69.5	65.0	65.0	63.3	69.5
R15	70.4	65.9	65.9	64.2	70.4
R16	70.9	66.4	66.4	64.7	70.9
R17	71.2	66.7	66.7	65.0	71.2
R18	72.5	68.0	68.0	66.3	72.5
R19	45.9	41.4	41.4	39.7	45.9
R20	44.6	40.1	40.1	38.4	44.6

[1] Construction noise source and receiver locations are shown in Exhibit 8-1.
[2] Construction noise level calculations based on distance from the construction activity, which is measured from the Project site boundary to the nearest receiver locations. CadnaA construction noise model inputs are included in Appendix 8.1.

TABLE 8-3: CONSTRUCTION NOISE LEVEL COMPLIANCE

Receiver Location[1]	Construction Noise Levels (dBA L_{eq})		
	Highest Construction Noise Levels[2]	Threshold[3]	Threshold Exceeded?[4]
R1	66.5	80	No
R2	74.1	80	No
R3	71.4	80	No
R4	74.5	80	No
R5	71.5	80	No
R6	75.2	80	No
R7	72.3	80	No
R8	72.4	80	No
R9	72.3	80	No
R10	72.2	80	No
R11	63.8	80	No
R12	70.7	80	No
R13	71.8	80	No
R14	69.5	80	No
R15	70.4	80	No
R16	70.9	80	No
R17	71.2	80	No
R18	72.5	80	No
R19	45.9	80	No
R20	44.6	80	No

[1] Construction noise source and receiver locations are shown in Exhibit 8-1.
[2] Highest construction noise level calculations based on distance from the construction noise source activity to the nearest receiver locations, as shown in Table 8-2.
[3] Construction noise level thresholds as shown in Table 4-1.
[4] Do the estimated Project construction noise levels exceed the construction noise level threshold?

8.5 SEWER PIPELINE DAYTIME CONSTRUCTION NOISE LEVEL INCREASES

To describe the temporary Project construction noise level contributions to the existing ambient noise environment, the Project construction noise levels were combined with the existing ambient noise levels measurements at the nearest off-site receiver locations. The difference between the combined Project-construction and ambient noise levels is used to describe the construction noise level contributions. Temporary noise level increases that would be experienced at sensitive receiver locations when Project construction noise is added to the ambient daytime conditions are presented in Table 8-4. A temporary noise level increase of 20 dBA is considered a *potentially significant* impact, which is used to assess the Project-construction noise level increases. (29)

As indicated in Table 8-4, the Project will contribute to construction noise increases ranging from less than 0.1 to 19.9 dBA L_{eq} during the daytime hours at the nearest receiver locations. The unmitigated construction noise analysis shows that the nearest receiver locations will not exceed the 20 dBA L_{eq} *substantial* noise level increase significance threshold during Project construction activities. The

temporary construction noise level increase analysis shows that the noise impacts due to the Project construction noise are considered *less than significant*.

TABLE 8-4: DAYTIME CONSTRUCTION NOISE LEVEL INCREASES

Receiver Location[1]	Typical Project Construction Noise Level[2]	Measurement Location[3]	Reference Ambient Noise Levels[4]	Combined Project and Ambient[5]	Project Increase[6]	Increase Criteria[7]	Increase Criteria Exceeded?
R1	49.1	L1	55.7	56.6	0.9	20	No
R2	56.7	L2	59.2	61.1	1.9	20	No
R3	54.0	L3	57.6	59.2	1.6	20	No
R4	57.1	L4	49.8	57.8	8.0	20	No
R5	54.1	L5	56.2	58.3	2.1	20	No
R6	57.8	L6	62.3	63.6	1.3	20	No
R7	54.9	L7	54.9	57.9	3.0	20	No
R8	55.0	L8	48.4	55.9	7.5	20	No
R9	54.9	L9	59.0	60.4	1.4	20	No
R10	54.8	L10	52.2	56.7	4.5	20	No
R11	46.4	L11	50.5	51.9	1.4	20	No
R12	53.3	L12	56.6	58.3	1.7	20	No
R13	54.4	L13	51.9	56.3	4.4	20	No
R14	52.1	L14	53.4	55.8	2.4	20	No
R15	53.0	L15	56.8	58.3	1.5	20	No
R16	53.5	L16	46.9	54.4	7.5	20	No
R17	53.8	L17	53.3	56.6	3.3	20	No
R18	55.1	L18	50.3	56.3	6.0	20	No
R19	28.5	L19	65.3	65.3	0.0	20	No
R20	27.2	L20	61.7	61.7	0.0	20	No

[1] Construction noise source and receiver locations are shown in Exhibit 8-1.
[2] Typical Project daytime construction noise levels as shown in Table 8-3.
[3] Reference noise level measurement locations as shown on Exhibit 5-A.
[4] Observed daytime ambient noise levels as shown in Table 5-1.
[5] Represents the combined ambient conditions plus the Project construction activities.
[6] The noise level increase expected with the addition of the proposed Project construction activities.
[7] Caltrans Traffic Noise Analysis Protocol.

8.6 NIGHTTIME CONSTRUCTION NOISE ANALYSIS

It is our understanding that nighttime activities may occur as part of the Project pipeline construction activities. Nighttime activities are often required to reduce traffic impacts in the area during daytime hours.

8.6.1 Nighttime Construction Reference Noise Levels

To estimate the noise levels due to nighttime activities, sample reference noise level measurements were taken from Table 8-1. However, due to the known high noise levels associated with construction activity, no nighttime construction would occur within 500 feet of residential land uses, no nighttime construction would occur, additionally, no demolition or pavement removal would occur during nighttime hours. While the Project noise levels will depend on the actual duration of activities and specific equipment fleet in use at the time of construction, the reference sound power level of 95.3 dBA L_w is used to describe the expected Project nighttime construction activities at 500 feet.

8.6.2 Nighttime Construction Noise Level Compliance

As shown in Table 8-5, the noise levels associated with the nighttime construction activities are estimated to range from 24.2 to 54.4 dBA L_{eq} and will satisfy the MSWD stationary-source nighttime exterior hourly average L_{eq} residential noise level threshold at all the receiver locations. Based on the results of this analysis, all the nearest noise receiver locations will experience *less than significant* impacts due to the Project-related nighttime construction activities. Appendix 8.2 includes the CadnaA nighttime construction noise model inputs.

8.6.3 Nighttime Noise Level Increases (Relative)

To describe the nighttime noise-level contributions from construction activity, the nighttime construction noise levels were combined with the existing nighttime ambient noise levels measurements at the nearest off-site receiver locations. The difference between the combined Project-construction and ambient noise levels is used to describe the construction noise level increases. Temporary noise increases that would be experienced at sensitive receiver locations when the typical Project construction-source noise is added to the ambient conditions are presented in Table 8-9. As indicated in Table 8-9, the Project nighttime construction activities will contribute to noise increases ranging from less than 0.1 to 5.0 dBA L_{eq} during the nighttime hours at the nearest receiver locations. The unmitigated nighttime construction noise analysis shows that the nearest receiver locations will not exceed the nighttime 5 dBA noise increase threshold during nighttime construction activities. Therefore, the nighttime construction noise increase analysis shows that the noise impacts due to Project nighttime construction noise are *less than significant*.

TABLE 8-5: NIGHTTIME NOISE LEVEL COMPLIANCE

Receiver Location[1]	Nighttime Construction Noise Levels (dBA L_{eq})		
	Exterior Noise Levels[2]	Threshold[3]	Threshold Exceeded?[4]
R01	44.2	70	No
R02	48.6	70	No
R03	50.3	70	No
R04	53.2	70	No
R05	50.8	70	No
R06	54.4	70	No
R07	51.3	70	No
R08	50.4	70	No
R09	51.5	70	No
R10	50.2	70	No
R11	48.1	70	No
R12	48.9	70	No
R13	51.1	70	No
R14	48.9	70	No
R15	49.6	70	No
R16	50.1	70	No
R17	49.1	70	No
R18	51.1	70	No
R19	25.5	70	No
R20	24.2	70	No

[1] Construction noise source and receiver locations are shown on Exhibit 8-1.
[2] Nighttime noise model inputs are included in Appendix 8.2.
[3] Construction noise level thresholds as shown in Table 4-1.
[4] Do the estimated Project construction noise levels exceed the construction noise level threshold?

TABLE 8-9: NIGHTTIME CONSTRUCTION NOISE INCREASES

Receiver Location[1]	Typical Project Construction Noise Level[2]	Measurement Location[3]	Reference Ambient Noise Levels[4]	Combined Project and Ambient[5]	Project Increase[6]	Increase Criteria[7]	Increase Criteria Exceeded?
R1	44.2	L1	53.2	53.7	0.5	5	No
R2	48.6	L2	55.4	56.2	0.8	5	No
R3	50.3	L3	57.2	58.0	0.8	5	No
R4	53.2	L4	52.4	55.8	3.4	5	No
R5	50.8	L5	55.6	56.8	1.2	5	No
R6	54.4	L6	57.2	59.0	1.8	5	No
R7	51.3	L7	54.4	56.1	1.7	5	No
R8	50.4	L8	47.1	52.1	5.0	5	No
R9	51.5	L9	54.6	56.3	1.7	5	No
R10	50.2	L10	50.7	53.5	2.8	5	No
R11	48.1	L11	45.4	50.0	4.6	5	No
R12	48.9	L12	51.5	53.4	1.9	5	No
R13	51.1	L13	53.0	55.2	2.2	5	No
R14	48.9	L14	50.5	52.8	2.3	5	No
R15	49.6	L15	52.3	54.2	1.9	5	No
R16	50.1	L16	49.4	52.8	3.4	5	No
R17	49.1	L17	57.9	58.4	0.5	5	No
R18	51.1	L18	51.0	54.1	3.1	5	No
R19	25.5	L19	65.7	65.7	0.0	5	No
R20	24.2	L20	60.3	60.3	0.0	5	No

[1] Construction noise source and receiver locations are shown on Exhibit 10-1.
[2] Typical Project daytime construction noise levels as shown on Table 10-3.
[3] Reference noise level measurement locations as shown on Exhibit 5-A.
[4] Observed daytime ambient noise levels as shown on Table 5-1.
[5] Represents the combined ambient conditions plus the Project construction activities.
[6] The noise level increase expected with the addition of the proposed Project construction activities.
[7] Caltrans Traffic Noise Analysis Protocol.

8.7 SEPTIC TANK ABATEMENT

Septic tank abatement includes pumping out all contents, followed by filling it with inert material like sand or gravel. The tank is disconnected from any riser pipes or drain field parts. After the tank is properly abated, it is completely covered with soil. Equipment would include a vacuum truck to empty the tank contents, a small backhoe to expose the tank, and a dump truck to bring the fill material. The operation of this equipment in the immediate area is likely to result in noise levels of approximately 74 dBA L_{eq} at 50 feet. However, these activities would only occur during daytime hours and would be coordinated with homeowners to avoid exposing residents to excessive noise levels. Therefore, construction noise impacts during septic tank removal are considered less than significant.

8.8 CONSTRUCTION VIBRATION ANALYSIS

Construction activity can result in varying degrees of ground vibration, depending on the equipment and methods employed. The operation of construction equipment causes ground vibrations that spread through the ground and diminish in strength with distance. Ground vibration levels associated with various types of construction equipment are summarized in Table 8-6. Based on the representative vibration levels presented for various construction equipment types, it is possible to estimate the potential for human response (annoyance) and building damage using the following vibration assessment methods defined by Caltrans. To describe the vibration impacts Caltrans provides the following equation: $PPV_{equip} = PPV_{ref} \times (25/D)^{1.5}$

TABLE 8-6: VIBRATION SOURCE LEVELS FOR CONSTRUCTION EQUIPMENT

Equipment	PPV (in/sec) at 25 feet
Small bulldozer	0.003
Jackhammer	0.035
Loaded Trucks	0.076
Large bulldozer	0.089
Vibratory Roller	0.210

Federal Transit Administration, Transit Noise and Vibration Impact Assessment Manual

Using the vibration source level of construction equipment provided in Table 8-6 and the construction vibration assessment methodology published by the FTA, it is possible to estimate the Project vibration impacts. The nearest occupied residences to pavement removal and paving activities are approximately 20 feet away. At distances ranging as close as 20 feet from Project construction activities, construction vibration velocity levels are estimated to range up to 0.29 PPV in/sec. During paving activities, when vibratory rollers are used. Based on the maximum acceptable continuous vibration threshold of 0.30 PPV (in/sec), the typical Project construction vibration levels will fall below the building damage thresholds at all the vibration-sensitive receiver locations. Therefore, the Project-related vibration impacts are considered *less than significant* during typical construction activities at the Project site.

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11 REFERENCES

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12 CERTIFICATION

The contents of this noise analysis report represent an accurate depiction of the noise environment and impacts associated with the Mission Springs Water District Groundwater Quality Protection Program Septic to Sewer Update Project Project. The information contained in this noise analysis report is based on the best available data at the time of preparation. If you have any questions, please contact me directly at (619) 788-1971.

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EDUCATION

Bachelor of Science in Urban and Regional Planning
California Polytechnic State University, Pomona • June 2000

PROFESSIONAL REGISTRATIONS

INCE – Institute of Noise Control Engineers, June 2024

PROFESSIONAL AFFILIATIONS

ASA – Acoustical Society of America
APA – American Planning Association
AWMA – Air and Waste Management Association

PROFESSIONAL CERTIFICATIONS

Approved Acoustical Consultant • County of San Diego
FHWA Traffic Noise Model of Training • November 2004
CadnaA Basic and Advanced Training Certificate • October 2008.

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APPENDIX 3.1:

CITY OF DESERT HOT SPRINGS MUNICIPAL CODE, CITY OF PALM SPRINGS MUNICIPAL CODE, AND COUNTY OF RIVERSIDE DEVELOPMENT CODE

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City of Desert Hot Springs, CA
Saturday, August 16, 2025

Title 8. Health and Safety

Chapter 8.12. NOISE CONTROL

§ 8.12.010. Purpose.

It is the purpose of this chapter to implement regulations and general administrative procedure to control and abate unreasonable, unnecessary, excessive and annoying noise and vibration. It is the further purpose of this chapter to recognize that the existence of unreasonable noise and vibration within the City is a condition that is detrimental to the peace, health, safety, welfare and quality of life of the citizens and shall be regulated in the public interest.
(Prior code § 90A.01; Ord. 757 6-7-22)

§ 8.12.020. Definitions.

As used in this chapter, the following terms have the meanings given:

"Construction" means any site preparation, assembly, erection, substantial repair, alteration, or similar action.

"Demolition" means any dismantling, intentional destruction or removal of structures, utilities, public or private right-of-way surfaces, or similar property.

"Leaf blower" means any portable, handheld or backpack, engine-powered device with a nozzle that creates a direct airstream capable of and intended for moving leaves and light materials.

"Noise" is interchangeable with the term "sound."

"Noise disturbance" means any sound that:

1. Endangers the safety or health of any person;
2. Disturbs a reasonable person of normal sensitivities; or
3. Endangers personal or real property.

"Noise sensitive zone" means all parcels upon which noise sensitive activities are conducted, including, but not limited to, operations of schools, libraries open to the public, spas, hotels as defined in the transient occupancy tax provisions of the municipal code, churches, hospitals, and nursing homes.

Permitted hours of operation. Where sound is restricted to "permitted hours of operation," the term means:

1. Monday through Friday, 7:00 a.m. through 6:00 p.m.
2. Saturday, 8:00 a.m. through 6:00 p.m.
3. Sunday, 9:00 a.m. through 5:00 p.m.

"Powered model vehicle" means any self-propelled airborne, waterborne, or land-borne plane, vessel, or vehicle, which is not designed to carry persons, including, but not limited to, any model airplane, boat, car, or rocket.

"Real property boundary" means an imaginary line along the ground surface, and its vertical extension, which separates the real property owned by one person or entity from that owned by an other, but not including intra-building real property divisions.

"Sound" means an oscillation in pressure, particle displacement, particle velocity or other physical parameter, in a medium with internal forces that causes compression and rarefaction of that medium. The description of sound may include any characteristic of such sound, including duration, intensity and frequency.

"Sound amplifying equipment" means any machine or device for the amplification of the human voice, music or any other sound. Sound amplifying equipment shall not be construed as including a standard automobile radio when used and heard only by the occupants of the vehicle in which it is installed or warning devices on authorized emergency vehicles.

"Sound truck" means any motor vehicle or other vehicle, regardless of motive power, whether in motion or stationary, having mounted thereon, built-in or attached thereto, any sound amplifying equipment. (Prior code § 90A.02; Ord. 757 6-7-22)

§ 8.12.030. Noise disturbances prohibited.

A. It is unlawful and a public nuisance for any person to make, suffer, permit, allow, continue, or cause to be made, suffered, permitted, allowed, or continued, within the City limits or within 200 feet thereof, any noise disturbance.

B. The factors to determine whether a violation of this chapter occurred shall include, but are not limited to, the following:

1. The volume, level, and intensity of the noise;
2. Whether the nature of the noise is usual or unusual;
3. Whether the origin of the noise is natural or unnatural;
4. The level and intensity of the background (ambient) noise, if any;
5. The proximity of the noise to residential or commercial sleeping areas;
6. The nature and zoning of the area within which the noise emanates;
7. The density of inhabitation of the area within which the noise emanates;
8. The time of day or night the noise occurs;
9. The duration of the noise;
10. Whether the noise is constant, or recurrent or intermittent;
11. The number of persons affected by the noise;
12. Whether the noise is produced by a commercial or noncommercial activity;
13. If the noise is produced by a commercial activity, whether the activity is lawful under this Code and whether the noise is one that could reasonably be expected from the commercial activity.

(Prior code § 90A.03; Ord. 757 6-7-22)

§ 8.12.040. Other specific prohibitions.

The following acts, and the causing thereof, are declared to be in violation of this chapter:

A. The sounding of any horn or other auditory signaling devices on or in any motor vehicle except as a warning of danger.

B. The use or operation of any sound production or reproduction device, radio receiving set, musical instrument, drums, phonograph, television set, loud speakers, sound amplifier, public address system or other similar machine or device for the producing or reproducing of sound:

1. Between the hours of 8:00 p.m. and 8:00 a.m. the following day in such a manner as to create a noise disturbance across a real property boundary;

2. In such a manner as to be plainly audible within any noise sensitive zone;

3. In such a manner as to be plainly audible at a distance of 50 feet from the source;

4. In such a manner as to create a noise disturbance to any person other than the operator of the device, when operated by any passenger on a common carrier.

C. The use or operation of a leaf blower:

1. Between the hours of 8:00 p.m. and 7:00 a.m. on Monday through Friday; and

2. Between the hours of 8:00 p.m. and 9:00 a.m. on Saturday and/or Sunday.

D. Owning, possessing or harboring any animal or bird which frequently or for continued duration, howls, barks, squawks, or makes other sounds which create a noise disturbance across a residential real property boundary or which are audible within a noise sensitive zone.

(Prior code § 90A.04; Ord. 757 6-7-22)

§ 8.12.050. Burglar alarms.

A. Audible burglar alarms for structures or motor vehicles are prohibited unless the operation of such burglar alarm will be terminated within 10 minutes of being activated.

B. Notwithstanding the requirements of this chapter, any member of the Police Department of the City shall have the right to take such steps as may be reasonable and necessary to disconnect any such alarm installed in any building, dwelling, or motor vehicle at any time during the period of its activation. This section does not preclude the towing and storage of vehicles in accordance with the procedures set forth in the California Vehicle Code.

(Prior code § 90A.05; Ord. 757 6-7-22)

§ 8.12.060. Sound trucks.

A. No person shall use, or cause to be used, a sound truck with its sound amplifying equipment in operation, for commercial or noncommercial purposes, in the City, before filing a written sound truck registration statement with the City Business Licensing Department.

B. Preexisting sound trucks operating in the City prior to the date of adoption of the ordinance codified in this chapter shall be granted a 60-day period from the date of adoption within which to comply with the provisions of this chapter and file a sound truck registration statement with the City Business Licensing Clerk.

C. The sound truck registration statement shall be filed in duplicate and shall state the following:

1. Name and home address of the registrant;

2. Address of place of business of registrant;

3. License number and motor number of the sound truck to be used by the registrant;

4. Name and address of person who owns the sound truck;
5. Name and address of person having direct charge of the sound truck;
6. Names and addresses of all persons who will use or operate the sound truck;
7. The purpose for which the sound truck will be used;
8. A general statement as to the section or sections of the City in which the sound truck will be used;
9. The proposed hours of operation of the sound truck;
10. The number of days of proposed operation of the sound truck;
11. Proof of current liability insurance;
12. A general description of the sound amplifying equipment that is to be used; and
13. The maximum sound producing power of the sound amplifying equipment to be used in or on the sound truck as follows:
    a. The wattage to be used;
    b. The volume in decibels of the sound that will be produced;
    c. The approximate maximum distance which sound will be thrown from the sound truck.

D. All persons using, or causing to be used, sound trucks shall amend any registration statement filed pursuant to this section within 48 hours after any change in the information therein furnished.

E. The Business Licensing Clerk shall return to the registrant one copy of the registration statement duly certified as a correct copy of the registration statement. The certified copy of the registration statement shall be in the possession of any person operating the sound truck at all times while the sound truck's sound amplifying equipment is in operation and the copy shall be presented to any enforcement officer of the City upon request.

F. Use of sound trucks in the City with sound amplifying equipment in operation shall be subject to the following regulations.
1. The only sounds permitted are music or human speech;
2. Operations are permitted during daylight hours each day. No sound amplifying equipment shall be used during hours of darkness. Darkness is defined as any time from one-half hour after sunset to one-half hour before sunrise and any other time when visibility is not sufficient to render clearly discernable any person or vehicle on the roadway at a distance of 1,000 feet;
3. Sound amplification equipment shall not be operated within 100 yards of a noise sensitive zone or polling place;
4. The human speech and music amplified shall not be profane, lewd, indecent, or slanderous;
5. The volume of sound shall be controlled so that it will not be plainly audible for a distance in excess of 100 yards from the sound truck and so that the volume is not unreasonably loud, raucous, jarring, disturbing, or a nuisance to persons within the area of audibility.

(Prior code § 90A.06; Ord. 757 6-7-22)

§ 8.12.070. Prohibited conduct for food vendors and others.

Notwithstanding the provisions of this chapter, it is unlawful for any person including, but not limited to mobile food vending vehicles as defined in Chapter **5.52** of this Code, to sound, blow or operate any

music, chimes or bells, or any similar sound device, amplified or otherwise, that can be heard for distance greater than 50 feet, for any purpose.
(Prior code § 90A.07; Ord. 757 6-7-22)

§ 8.12.080. Standing motor vehicles.

No person shall operate or permit the operation of any motor vehicle with a gross vehicle weight rating in excess of 10,000 pounds, or any auxiliary equipment attached to such a vehicle, including but not limited to refrigerated truck compressors, for a period longer than 15 minutes in any hour while the vehicle is stationary, on a public right-of-way or public space, and within 150 feet of a residential dwelling or noise sensitive zone, between the hours of 7:00 p.m. and 7:00 a.m., for reasons other than traffic congestion.
(Prior code § 90A.08; Ord. 757 6-7-22)

§ 8.12.090. Limiting noises or vibration created by vehicles, tools or machinery to permitted hours of operation.

Notwithstanding any other provisions of this chapter, it is unlawful and a public nuisance for any person to cause, suffer, allow, or permit any of the following except during permitted hours of operation:

A. Operation or use of powered model vehicles/planes.

B. Loading and unloading of vehicles, operating of forklifts or cranes within 1,000 feet of a residence or noise sensitive zone.

C. Loading, unloading, opening, closing or other handling of boxes, crates, containers, building materials, garbage cans, or similar objects in such a manner as to cause a noise disturbance across a residential real property boundary.

D. Repairing, rebuilding, modifying, or resting any motor vehicle, motorcycle, or motorboat in such a manner as to cause a noise disturbance across a residential real property boundary.

E. Operating any mechanically powered saw, sander, drill, grinder, lawn or garden tool, or similar device so as to cause a noise disturbance across a residential real property boundary.

(Prior code § 90A.09; Ord. 757 6-7-22)

§ 8.12.100. Construction—Hours of work permitted.

It is unlawful and a public nuisance for any person to cause, suffer, allow or permit any construction, drilling or demolition work, or the use of tools or equipment therefor, during those times and on those days that such activities are prohibited pursuant to Section **9.04.030** of this Code, as may be amended from time to time.
(Prior code § 90A.10; Ord. 757 6-7-22)

§ 8.12.110. Special provisions—Exemptions.

A. The following activities shall be exempt from the provisions of this chapter:

1. Those noise events in the community (e.g., arterial traffic noise) that are more accurately measured by application of the general plan noise element policy;

2. School bands, school athletic and school entertainment events;

3. Outdoor gatherings, public dances, shows and sporting and entertainment events provided such events are authorized by the City via permit, or previously approved development agreement;

4. Activities conducted in public parks and public playgrounds with a valid City permit;

5. Any mechanical device, apparatus or equipment used, related to or connected with emergency machinery, vehicle or work;

6. The emission of sound for the purpose of alerting persons to the existence of any emergency;

7. The emission of sound in the performance of emergency work.

B. The provisions of this chapter shall not preclude the construction, operation, maintenance and repairs of equipment, apparatus or facilities of park and recreation departments, public work projects or essential public services and facilities, including trash collection and those activities of public utilities subject to the regulatory jurisdiction of the California Public Utilities Commission.

C. The provisions of this chapter shall not preclude activities reasonably required to comply with any Federal, State, County or local law.

D. If at the time the enforcement officer investigates a burglar alarm or noisy animal(s) complaint, and determines that the cause of the noise is the result of a person, other than the animal's owner or caretaker, committing or attempting to commit an illegal act, such as trespass or theft, no violation of this chapter shall have taken place.

(Prior code § 90A.11; Ord. 757 6-7-22)

§ 8.12.120. Enforcement procedures.

The City may enforce this chapter using applicable procedures in Title **4** of this Code.
(Prior code § 90A.12; Ord. 757 6-7-22)

§ 8.12.130. Enforcement authority.

The Code Compliance Division, Police Department, the Building Department, the Business Licensing Department, and/or the Animal Control Department, shall have the power and authority to enforce any and all provisions of this chapter.
(Prior code § 90A.13; Ord. 757 6-7-22)

§ 8.12.140. Violation—Infractions.

Any person violating any of the provisions of this chapter shall be deemed guilty of an infraction.
(Prior code § 90A.14; Ord. 757 6-7-22)

§ 8.12.150. Continuing or subsequent violation—Misdemeanor.

A. If a violation of this chapter is of a continuing nature, each day during any part of which it occurs shall constitute an additional, separate, and distinct offense.

B. A violation of the same provision of this chapter, by any person having been previously convicted of a violation of this chapter, may be prosecuted, at the discretion of the City Attorney, as either an infraction or as a misdemeanor, punishable by a fine not exceeding $1,000 or imprisonment in the County Jail for a term not exceeding six months, or by both such fine and imprisonment.

(Prior code § 90A.15; Ord. 757 6-7-22)

§ 8.12.160. (Reserved)

§ 8.12.170. Cumulative remedies.

All remedies set forth in this chapter shall be cumulative and in addition to any and all other remedies, civil, equitable, or criminal, afforded to the City under the law.
(Prior code § 90A.17; Ord. 757 6-7-22)

Title 11. Peace, Morals and Safety

Chapter 11.74. NOISE ORDINANCE

§ 11.74.010. Declaration of policy.

It is the policy of the city of Palm Springs to reduce noise in the community and to prohibit unnecessary, excessive and annoying noises from all sources subject to its police power. At certain levels, noise can be detrimental to the health, welfare, safety and quality of life of the citizenry and in the public interest it shall be restricted. In order to implement the goals of the noise element of the city's general plan and adopt a comprehensive noise ordinance to prohibit unwanted and unnecessary sounds of all types within the community, this chapter has been created. This chapter shall be referred to and cited as the "Palm Springs Noise Ordinance."
(Ord. 1167 § 1, 1982)

§ 11.74.020. Definitions.

Terminology used in this chapter shall be in conformance with definitions in the Palm Springs zoning ordinance and is defined herein as follows:

"Ambient noise level" means an existing level of all-encompassing noise associated with a given environment, usually a composite of sounds from many sources near and far, without inclusion of intruding noises from isolated identifiable sources.

"A-weighted sound level" means the sound pressure level in decibels as measured on a sound level meter using the A-weighting network. The level so read is designated dB(A) or dBA.

"Commercial area" means land utilized for business purposes other than residential or industrial uses.

"Day" means the time period from seven a.m. to ten p.m.

"Decibel (dB)" means a unit for measuring the volume of a sound equal to twenty times the logarithm to the base ten of the ratio of the pressure of the sound measured to the reference pressure, which is twenty micropascals.

"Emergency work" means any work performed necessary to restore property to a safe condition due to property damage threatened or caused by an emergency.

"Enforcement officer" means the building and safety director or his designee who may enforce the provisions of this chapter.

"Equivalent a-weighted sound level (Leg)" means the constant sound level that, in a given situation and time period, conveys the same sound energy as the actual time-varying A-weighted sound for a given period of time. For the purposes of this chapter, it is an eight-hour period of time.

"Fixed noise source" means a stationary device which creates sounds, including but not limited to agricultural, commercial, industrial, and residential machinery and equipment, pumps, fans, compressors, air conditioners and refrigeration equipment.

"Gross vehicle weight rating (GVWR)" means the value specified by the manufacturer as the recommended maximum loaded weight of a single motor vehicle. In cases where trailers and tractors

are separable, the gross combination weight rating (GCWR), which is the value specified by the manufacturer as the recommended maximum loaded weight of the combination vehicle shall be used.

"Impulsive sound" means a short duration sound of one second or less with an abrupt onset and rapid decay (includes explosion, drop forge impact, or firearm discharge).

"Intrusive noise" means a sound which intrudes over and above the existing ambient noise level at a given location.

"Mobile noise source" means any noise source other than a fixed source.

"Motor vehicles" means any and all self-propelled vehicles, on or off road, subject to identification under **California Vehicle Code**.

"Muffler or sound dissipation device" means a device for abating the sound of escaping gases of an internal combustion engine.

"Night" means the time period from ten p.m. to seven a.m.

"Noise disturbance" means any sound which (a) endangers or injures the safety or health of humans or animals, or (b) annoys or disturbs a reasonable person of normal sensitivities, or (c) endangers or injures personal or real property.

"Noise sensitive areas" means quiet zones of the city which contain more sensitive activities. Existing quiet zones shall be considered noise sensitive areas until otherwise designated.

"Person" means any individual, association, partnership, or corporation, and includes any officer, employee, department, agency or entity, public or private.

"Powered model vehicle" means any self-propelled airborne, waterborne, or landborne plane, vessel, or vehicle, which is not designed to carry persons, including but not limited to, any model airplane, boat, car or rocket.

"Residential area" means land which is utilized or zoned for residential purposes.

"Sound amplifying equipment" means any device used for the amplification of the human voice, music or any other sound. Excluded are standard automobile radios when used and heard only by the occupants of the vehicle in which the radio is held or installed. Also excluded are warning devices on authorized emergency vehicles or horns or other warning devices on any vehicle used only for traffic safety purposes.

"Sound level meter" means an instrument, including a microphone, an amplifier, an output meter, and frequency weighting networks for the measurement of sound levels, which meets or exceeds the requirements pertinent for Type S2A meters in American National Standards Institute specifications for sound level meters, S1.4-1971, or the most recent revision thereof.

"Sound truck" means any motor vehicle, or other vehicle, regardless of motive power, whether in motion or stationary, having mounted thereon, or attached thereto, any sound amplifying equipment.

"Vibration perception threshold" means the minimum ground, or structure-borne vibrational motion necessary to cause a normal person to be aware of the vibration by such direct means as, but not limited to, sensation by touch or visual observation of moving objects. The perception threshold shall be presumed to be a motion velocity of 0.01 in/sec over the range of 1 to 100 Hz.

"Weekday" means any day, Monday through Friday, which is not a legal holiday.
(Ord. 1167 § 1, 1982)

§ 11.74.030. Fixed and nonstationary sources.

On or after the effective date of the ordinance codified in this chapter, unless a permit has been granted by the board of appeals, it shall be unlawful for any person to operate or cause to be operated any single or combination of fixed source or non-stationary source type of equipment or machinery except construction equipment used in connection with construction operations, that individually or collectively constitute an identifiable sound source in such a manner as to cause the sound level at any point on the

property line of any property to exceed by five decibels or more, the noise level limits set forth in Section **11.74.031**, plus allowances for time duration in Section **11.74.032**.
(Ord. 1167 § 1, 1982)

§ 11.74.031. Noise level limit.

The noise level or sound level referred to in this section shall mean the higher of the following:

(1) Actual measured ambient noise level; or

(2) That noise level limit as determined from the table in this subsection:

Zone	Time	Sound Level(A-weighted) Decibels
Residential	7 a.m. to 6 p.m.	50
Low Density	6 p.m. to 10 p.m.	45
	10 p.m. to 7 a.m.	40
Residential	7 a.m. to 6 p.m.	60
High Density	6 p.m. to 10 p.m.	55
	10 p.m. to 7 a.m.	50
Commercial	7 a.m. to 6 p.m.	60
	6 p.m. to 10 p.m.	55
	10 p.m. to 7 a.m.	50
Industrial	7 a.m. to 6 p.m.	70
	6 p.m. to 10 p.m.	60
	10 p.m. to 7 a.m.	55

If the measurement location is on a boundary between two different zones, the noise level limit applicable to the lower noise zone plus five dB shall apply.
(Ord. 1167 § 1, 1982)

§ 11.74.032. Time duration correction table.

The time duration allowances set forth in the table below shall apply to those noise level limits set forth in Section **11.74.031** during the daytime hours:

Duration of Sound	dB(A) Allowance
Up to 30 minutes per hour	+ 3
Up to 15 minutes per hour	+ 6
Up to 10 minutes per hour	+ 8
Up to 5 minutes per hour	+11
Up to 2 minutes per hour	+15
Up to 1 minutes per hour	+18
Up to 30 seconds per hour	+21
Up to 15 seconds per hour	+24

The provisions of this section shall not apply to construction equipment used in connection with emergenc work.

(Ord. 1167 § 1, 1982)

§ 11.74.033. Noise measurement procedure.

Upon receipt of a complaint from a citizen, or a request to investigate, the enforcement agent, equipped with sound level measurement equipment, may investigate the complaint. The investigation shall consist of measurement(s) and the gathering of data to adequately define the noise problem and shall include the following:

(a) Type of noise source;

(b) Location of noise source relative to complainant's property;

(c) Time period during which noise source is considered by complainant to be intrusive;

(d) Total duration of noise produced by noise source;

(e) Date and time of noise measurement survey.

(Ord. 1167 § 1, 1982)

§ 11.74.034. Maximum permissible sound levels by receiving land use.

(1) The noise standards for the various categories of land use identified in Section **11.74.031** shall, unless otherwise specifically indicated, apply to all such property within a designated zone.

(2) No person shall operate or cause to be operated any source of sound at any location which causes the noise level, when measured on any other property, to exceed the limits set forth in Sections **11.74.031** and **11.74.032**.

(3) If the measurement location is on a boundary between two different zones, the noise level limit applicable to the lower noise zone plus five dB, shall apply.

(Ord. 1167 § 1, 1982)

§ 11.74.035. Maximum permissible dwelling interior sound levels.

(1) The interior noise standards for multifamily residential dwellings as presented in the following table shall apply, unless otherwise specifically indicated, within all such dwellings with windows in their open position:

Land Use	Time Interval	Allowable Interior Noise Level (dBA)
Multifamily	10 p.m. to 7 a.m.	35
Residential	7 a.m. to 10 p.m.	45

(2) No person shall operate or cause to be operated within a dwelling unit, any source of sound or allow the creation of any noise which causes the noise level when measured inside a neighboring receiving dwelling unit to exceed:

(a) The noise standard as specified in subsection (1) of this section for a cumulative period of more than five minutes in any hour; or

(b) The noise standard plus five dB for a cumulative period of more than one minute in any hou or

(c) The noise standard plus the ten dB or the maximum measured ambient for any period of time.

(3) If the measured ambient noise level differs from that permissible within any of the allowable interior noise level categories above, the allowable interior noise level shall be adjusted in five-dB increments in each category as appropriate to reflect the measured ambient noise level.

(Ord. 1167 § 1, 1982)

§ 11.74.040. General guidelines.

Notwithstanding the provisions of Sections **11.74.030** through **11.74.035**, it shall be unlawful for any person to make, continue, or cause to be made or continued, within the limits of the city, any loud, unnecessary or unusual noise which causes discomfort or annoyance to any reasonable person of normal sensitiveness residing in the area.

The characteristics and conditions to be considered in determining a violation of the provisions of this section include, but are not limited to the following:

(1) The intensity of the noise;

(2) Whether the nature of the noise is usual or unusual;

(3) The level and intensity of the background noise;

(4) The proximity of the noise to sleeping facilities;

(5) The nature and zoning of the area within which the noise emanates;

(6) The density of habitation of the area within which the noise emanates;

(7) The time of the day or night the noise occurs;

(8) The duration of the noise;

(9) Whether the noise is recurrent, intermittent, or constant; and

(10) Whether the noise is produced by a commercial or noncommercial activity.

(Ord. 1167 § 1, 1982)

§ 11.74.041. Controlled hours of operation.

(a) It shall be unlawful for any person to operate, permit, use or cause to operate, any of the following between the hours of eight p.m. to eight a.m. in residential zones and between the hours of eight p.m. to seven a.m. in all other zones:

(1) Powered model vehicles;

(2) Loading and unloading vehicles such as trash collectors, fork lifts, or cranes within one thousand feet of a residence;

(3) Domestic power tools;

(4) Non-emergency exterior hardscape and landscape activities, including without limitation tree trimming, reseeding, lawn mowing, leaf blowing, dust and debris clearing, and any other landscaping or nonemergency exterior hardscape maintenance activities which would utilize any motorized saw, sander, drill, grinder, leaf-blower, lawn mower, hedge trimmer, edger, or any other similar tool or device.

(b) Notwithstanding the foregoing, this Section shall not prohibit the operation or use of any such equipment at any time within said zones by the city, its officers or employees, or any agent or franchisee of the city.

(c) The regular mowing or grooming of golf courses, grass tennis courts, grass croquet courts, and lawn bowling areas shall be exempt from the restrictions set forth in this Section. The allowed work hours for mowing or green preparation for golf courses, grass tennis courts, grass croquet courts, and lawn bowling areas shall be between five-thirty a.m. and eight p.m., seven days per week and during all seasons of the year.

(Ord. 1167 § 1, 1982; Ord. 1383 § 1, 1991; Ord. 1851 § 2, 2014)

§ 11.74.042. Construction.

It shall be unlawful for any person within the city to operate construction tools or equipment in the performance of any outside construction or repair work on buildings, structures, or projects except in accordance with Section **8.04.220**, of this code.

(Ord. 1167 § 1, 1982)

§ 11.74.043. Loud, unusual noises.

The following acts, among others, are declared to be loud, disturbing, and unnecessary noises in violation of this section, but said enumeration shall not be deemed to be exclusive:

(a) Mufflers or Sound Dissipative Devices.

No person shall operate or cause to be operated any motor vehicle in violation of the exhaust noise levels as established by the State of California Vehicle Code Division 12, Section **27158.5** Article 2.5.

(b) Horns and Signaling Devices.

No person shall operate or cause to be operated any motor vehicle horn, siren, or amplification device in violation of the State of California Vehicle Code Division 12, Section **27001** Chapter 5 Article 1.

(c) Motorized Recreational Vehicles Operating Off Public Right-of-Way.

No person shall operate or cause to be operated any motorized recreational vehicle off a public right-of-way in such a manner that the sound levels emitted therefrom violate the provisions of this chapter.

(d) Standing Motor Vehicles.

No person shall operate or permit the operation of any motor vehicle with a gross vehicle weight rating (GVWR) in excess of ten thousand pounds, or of any auxiliary equipment attached to such a vehicle, for a period longer than fifteen minutes in any hour while the vehicle is stationary, and on a public right-of-way or public space within one hundred fifty feet of a residential area or designated noise sensitive zone, between the hours of seven p.m. and seven a.m., except when movement of said vehicle is restricted by other traffic.

(e) Vehicle or Motorboat Repairs and Testing.

It shall be unlawful for any person to repair, rebuild, modify, or test any motor vehicle, motorcycle, or motorboat in such a manner as to cause a noise disturbance on residential property.

(f) Loudspeakers and Other Sound Amplifying Devices/Musical Instruments.

It shall be unlawful for any person to play, use, operate or permit to be played, used or operated, any radio receiver, musical instrument, phonograph, loudspeaker, sound amplifier, or other machine or device for the producing or reproducing of any sound upon any public street, alley, sidewalk,

passageway or thoroughfare, or in or upon any public park or other public place so as t unreasonably interfere with the peace and quiet of any other person; or if such act is done upo any private property, so as to unreasonably interfere with the peace and quiet of any person outside the boundary of such private property.

(g) Hawkers and Peddlers.

It shall be unlawful for any person to sell anything by outcry within any area of the city utilized for residential or commercial purposes. This section shall not be construed to prohibit the selling by outcry of merchandise, food and beverages at licensed sporting events, parades, fairs, circuses and similar licensed public entertainment events or auctions.

(h) Animals and Fowl.

No person shall keep or maintain, or permit the keeping of, upon any premises owned, occupied or controlled by such person, any animal or fowl otherwise permitted to be kept which, by any sound, cry or behavior shall cause annoyance or discomfort to a reasonable person of normal sensitiveness on any residential property. (See also Section **10.28.020**, Noise disturbances by animals.)

(i) Machinery, Equipment, Fans and Air Conditioning.

It shall be unlawful for any person to operate any machinery, equipment, pump, fan, air conditioning apparatus or similar mechanical device in any manner so as to create any noise which would cause the noise level at the property line or party wall line of any residential property to exceed the ambient noise level by more than five decibels.

(j) Vibration.

Operating or permitting the operation of any device that creates a vibration which is above the vibration perception threshold of an individual at or beyond the property boundary of the source if on private property or one hundred fifty feet from the source if on a public space or public right-of-way, is unlawful.

(k) Gasoline Powered Leaf Blowers.

The use of gasoline powered leaf blowers, to produce a current of air and thereby push, propel or blow cuttings, refuse or debris, or otherwise shall be prohibited within the corporate limits of the City.

(Ord. 1167 § 1, 1982; Ord. 1289 § 1, 1987; Ord. 1932 § 2, 2017)

§ 11.74.044. Wind energy conversion systems (WECS).

(a) Permit Approval.

A commercial WECS permit shall not be granted unless the applicant demonstrates that the projected WECS noise level will be no greater than that limit specified in subsection **(c)** of this section and shall be calculated in accordance with the technical specifications and criteria adopted pursuant to subsections **(f)** through **(h)** of this section. Noise level limits for WECS shall be considered a property development standard and variances thereunto may be granted pursuant to Section **94.06.00** of the Zoning Code.

(b) Point of Measurement.

The point of measurement for the calculation of the WECS noise level projected pursuant to subsection **(c)** of this section shall be determined as follows:

(1) All lots in the vicinity of the commercial WECS project property which are actually used for residential, hotel, hospital, school, library or convalescent home purposes shall be identified. For purposes of this subsection, no lot included in the commercial WECS project property shall

be deemed actually used for residential, hotel, hospital, school, library or convalescent hom purposes.

(2) The point of measurement shall be 10 feet from the outside surface of the wall of such structure, identified in subsection (b)(1) of this section, nearest the WECS being measured.

(c) Noise Level Limits.

The noise level or sound level referred to in this section shall mean the higher of the following:

(1) Fifty-five dB(A) at the point of measurement;

(2) The noise level limit shall be reduced by five dB(A) where it is projected that pure tone noise will be generated. A pure tone shall exist if the one-third octave band sound pressure level in the band width of the tone exceeds the arithmetic average of the sound pressure levels on the two contiguous one-third octave bands by five dB for center frequencies of 500 Hz and above, and eight dB for center frequencies between 160 and 400 Hz and by 15 dB for center frequencies less than or equal to 125 Hz.

(d) Noise Zones.

(1) The development of wind turbines shall be prohibited within 200 feet of any existing land use described in subsection (b)(1) of this section.

(2) The development of wind turbines at a distance between 200 feet and 3,000 feet from any land use described in subsection (b)(1) of this section shall require the submittal of an acoustical report indicating compliance with the noise level limits and the measurement methodology described in this section.

(3) At distances greater than 3,000 feet from any land use described in subsection (b)(1) of this section, wind turbine development may be permitted without acoustical study.

(e) Commercial WECS Characteristics.

All noise reports submitted to the city shall include the following information:

(1) The dimensions of the commercial WECS including tower height, total height, hub height and rotor diameter;

(2) The name of the manufacturer of the commercial WECS and any applicable model number;

(3) A description of the commercial WECS, including axis and wind orientation; and

(4) Maximum rated power output and the power curve of the WECS and wind speed plotted relative to power produced.

(f) Measurement Methodology for a Single Commercial WECS. All noise measurements shall be made and reported as follows:

(1) All noise measurements shall be made using a sound level meter meeting ANSI standard specifications for Type I equipped with Bruel and Kjaer Windscreen (Model No. UA 9237 or 0207) and calibrated to standards of National Bureau of Standards, or other instrumentation as approved by the planning director. The specific instrumentation used shall be described in the noise report.

(2) Noise measurements shall be made at a height of five feet above local terrain. Unusual circumstances may require a different measurement height, but any variance shall be explained in the noise report.

(3) Noise measurement data shall be reported as sound pressure levels derived from dB, A weighted. Noise data indexes shall be measured utilizing slow response at a sampling rate of one-quarter second or faster. A noise measurement of 10 minute duration should be made with the measurements being recorded on a strip chart recording or similar device. The L_{eq}, L_{50},

L_{80}, L_{90} and L_{99} should be measured. The measurements should be conducted during a period of relatively constant wind speed. The strip chart recording will show a fairly constant noise level that is intermittently interrupted by higher noise levels due to wind noise and possibly vegetation noise. The lower noise levels recorded on the strip chart are primarily attributable to the WECS. This noise level should correspond roughly to the L_{90} noise level. The L_{90} should be considered as the noise level attributable to the WECS. The wind speed during the measurement period should not exceed 25 miles per hour as measured at 10 feet above ground. For compliance testing, the 10 minute measurements should be repeated three times.

(4) The following parameters during noise measurements shall be noted and included in the noise report:

(A) Average wind speed;

(B) Gust wind speed;

(C) Wind direction;

(D) Temperature;

(E) Relative humidity;

(F) General weather conditions (e.g. cloudy, clear, inversions);

(G) Terrain (e.g. hills, level, ravines); and

(H) Surrounding vegetation.

(5) Three 10-minute noise measurements should be made for compliance testing.

(6) The noise level used will be the arithmetic average of the L_{90} levels recorded during the three measurement periods.

(7) Noise measurements shall be made in low, medium and high wind speeds and shall be included in the noise report. For low wind speeds, noise measurements shall be made in winds producing an average power output over a minimum 30-minute sampling period of 20 percent plus or minus five percent of maximum rated power output. For medium wind speeds, noise measurements shall be made in winds producing an average power output over a minimum 30-minute sampling period of 50 percent plus or minus 10 percent of maximum rated power output. For high wind speeds, noise measurements shall be made in winds producing an average power output over a minimum 30-minute sampling period of 90 percent plus or minus 10 percent maximum rated power output.

(8) In order to determine the dB, A weighted, reference level for low wind speeds, noise measurements shall be made 400 feet downwind from the WECS under low speed conditions, i.e. under wind conditions producing an average power output over a minimum 15-minute sampling period of 20 percent plus or minus five percent of maximum rated power output. These measurements shall be included in the noise report.

(9) The dB, A weighted, reference level for high wind speeds will be calculated using the L_{90} levels measured under subsections (f)(7) and (f)(8) of this section. The high wind speed reference level shall be the sum of low wind speed reference level measured pursuant to subsection (f)(8) of this section plus the difference between the low wind speed noise level and the high wind speed noise level measured pursuant to subsection (f)(7) of this section.

(10) If the planning director determines that any data provided in the noise report is inconsistent or inadequate, a supplemental noise report prepared by an independent acoustical consultant may be required.

(g) Modeling for Projected Noise Levels from Commercial WECS Arrays.

Projected WECS noise level shall be supplied by the permit applicant in accordance with the following procedures:

(1) Determine the noise level of each WECS (NLW) at the receptor by using the reference noise level (RNL) at four hundred feet at high speeds calculated pursuant to subsection (f)(9) of this section and the following formula:

NLW = RNL + 20 log (400/RD) - AAL

Where:

RD = Receptor Distance to the WECS noise source. WECS noise source shall be assumed to be at the rotor hub for horizontal axis WECS and at the midpoint of the rotor axis for vertical axis WECS.

AAL = Atmospheric Attenuation Loss determined from Table of Atmospheric Absorption Losses (U.S. Dept. of Transportation, Oct. 1980; Report No. FAA-EE-80-46, Volume III) Method A at 50% humidity and 70°F.

(2) Determine projected WECS noise level (PWNL) using the following formula:

$PWNL = 10 \log [\text{antilog} (NLW_1/10) + \text{antilog} (NLW_2/10) + \text{antilog} (NLW_n/10)]$

Where:

NLW_1 = Noise level of first WECS at receptor.

NLW_2 = Noise level of second WECS at receptor.

NLW_n = Noise level of nth WECS at receptor.

(h) Measurement Methodology for a Commercial WECS Array. All noise measurements shall be made and reported as follows:

(1) Required acoustical reports shall be prepared by a registered professional engineer who has an expertise in acoustical engineering or by an Institute of Noise Control engineer (INCE). The report will be reviewed and, if appropriate, approved by the city before the issuance of permits.

(2) All noise measurements shall be made using a sound level meter meeting ANSI standard specifications for Type I equipped with Bruel and Kjaer Windscreen (Model No. UA 0237 or 0207) and calibrated to standards of National Bureau of Standards. The specific instrumentation used shall be described in the noise report.

(3) Noise measurements shall be made at a height five feet above local terrain. Unusual circumstances may require a different measurement height, but any variance shall be explained in the noise report.

(4) Noise measurement data shall be reported as sound pressure levels derived from dB, A weighted. Noise data indexes shall be measured utilizing slow response at a sampling rate of one-quarter second or faster. A noise measurement of ten-minute duration should be made with the measurements being recorded on a strip chart recording or similar device. The L_{eq}, L_{50}, L_{80}, L_{90} and L_{99} should be measured. The measurements should be conducted during a period of relatively constant wind speed. The strip chart recording will show a fairly constant noise level that is intermittently interrupted by higher noise levels due to wind noise and possibly vegetation noise. The lower noise levels recorded on the strip chart are primarily attributable to the WECS. This noise level should correspond roughly to the L_{90} noise level. The L_{90} should be considered as the noise level attributable to the WECS. The wind speed during the measurement period should not exceed twenty-five miles per hour as measured at ten feet above ground. For compliance testing, the ten-minute measurements should be repeated three times.

(5) The following parameters during noise measurements shall be noted and included in the noise report:

(A) Average wind speed;

(B) Gust wind speed;

(C) Wind direction;

(D) Temperature;

(E) Relative humidity;

(F) General weather conditions (e.g. cloudy, clear, inversions);

(G) Terrain (e.g. hills, level, ravines); and

(H) Surrounding vegetation.

(6) Three ten-minute noise measurements should be made for compliance testing.

(7) The noise level used will be the arithmetic average of the L_{90} levels recorded during the three measurement periods.

(Ord. 1473 § 1, 1994; Ord. 2031 § 29, 2020; Ord. 2088, 11/9/2023)

§ 11.74.050. Exceptions.

The following noise sources are specifically excluded from the provisions of this chapter:

(1) The emission of sound for the purpose of alerting persons to the existence of an emergency, or the emission of sound in the performance of emergency work;

(2) The operation of refuse collection under franchise agreement with the city of Palm Springs.

(Ord. 1167 § 1, 1982)

§ 11.74.051. Preexisting noise sources.

Those commercial and/or industrial noise sources in existence prior to the date of adoption of the ordinance codified in this chapter, which noise sources are an integral part of a building, structure, or similar fixed and permanent installation if in compliance with local zoning statutes, shall be granted a five-year period from the date of adoption with which to comply with the provisions of this chapter. If, at the end of the five-year period, it can be shown that compliance with the provisions herein constitutes a hardship in terms of technical and economic feasibility, the time to comply may be extended on an annual basis until such time as compliance may be affected.

(Ord. 1167 § 1, 1982)

§ 11.74.052. Violation—Infraction.

Any person violating any provision of this chapter shall be guilty of an infraction for the first instance of any such violation.

(Ord. 1167 § 1, 1982; Ord. 1409 § 1, 1992)

§ 11.74.053. Continuing or subsequent violations—Misdemeanor.

Any person having been cited for violation of any provision of this chapter who within one year thereafter commits a second or any subsequent violation of the same provision of this chapter, including, without limitation thereby, suffering or permitting said violation to continue for a second or subsequent day, shall be guilty of a misdemeanor.

(Ord. 1167 § 1, 1982; Ord. 1409 § 1, 1992)

§ 11.74.054. Severability.

If any provision of this chapter is held to be unconstitutional or otherwise invalid by any court of competent jurisdiction, the remaining provisions of this chapter shall not be invalidated.
(Ord. 1167 § 1, 1982)

ORDINANCE NO. 847
(AS AMENDED THROUGH 847.1)
AN ORDINANCE OF THE COUNTY OF RIVERSIDE AMENDING ORDINANCE NO. 847 REGULATING NOISE

The Board of Supervisors of the County of Riverside Ordains as Follows:

Section 1. INTENT. At certain levels, sound becomes noise and may jeopardize the health, safety or general welfare of Riverside County residents and degrade their quality of life. Pursuant to its police power, the Board of Supervisors hereby declares that noise shall be regulated in the manner described herein. This ordinance is intended to establish countywide standards regulating noise. This ordinance is not intended to establish thresholds of significance for the purpose of any analysis required by the California Environmental Quality Act and no such thresholds are hereby established.

Section 2. EXEMPTIONS. Sound emanating from the following sources is exempt from the provisions of this ordinance:

a. Facilities owned or operated by or for a governmental agency.
b. Capital improvement projects of a governmental agency.
c. The maintenance or repair of public properties.
d. Public safety personnel in the course of executing their official duties, including, but not limited to, sworn peace officers, emergency personnel and public utility personnel. This exemption includes, without limitation, sound emanating from all equipment used by such personnel, whether stationary or mobile.
e. Public or private schools and school-sponsored activities
f. Agricultural operations on land designated Agriculture in the Riverside County General Plan, or land zoned A-1 (Light Agriculture), A-P (Light Agriculture With Poultry), A-2 (Heavy Agriculture), A-D (Agriculture-Dairy) or C/V (Citrus/Vineyard), provided such operations are carried out in a manner consistent with accepted industry standards. This exemption includes, without limitation, sound emanating from all equipment used during such operations, whether stationary or mobile.
g. Wind Energy Conversion Systems (WECS), provided such systems comply with the WECS noise provisions of Riverside County Ordinance No. 348.
h. Private construction projects located one-quarter (1/4) of a mile or more from an inhabited dwelling.
i. Private construction projects located within one-quarter (1/4) of a mile from an inhabited dwelling, provided that:
    1. Construction does not occur between the hours of 6:00 p.m. and 6:00 a.m. during the months of June through September; and
    2. Construction does not occur between the hours of 6:00 p.m. and 7:00 a.m. during the months of October through May.

j. Property maintenance, including, but not limited to, the operation of lawnmowers, leaf blowers, etc., provided such maintenance occurs between the hours of 7 a.m. and 8 p.m.
k. Motor vehicles, other than off-highway vehicles. This exemption does not include sound emanating from motor vehicle sound systems
l. Heating and air conditioning equipment.
m. Safety, warning and alarm devices, including, but not limited to, house and car alarms, and other warning devices that are designed to protect the public health, safety, and welfare.
n. The discharge of firearms consistent with all state laws.

Section 3. DEFINITIONS. As used in this ordinance, the following terms shall have the following meanings:

a. Audio Equipment. A television, stereo, radio, tape player, compact disc player, mp3 player, I-POD or other similar device.
b. Decibel (dB). A unit for measuring the relative amplitude of a sound equal approximately to the smallest difference normally detectable by the human ear, the range of which includes approximately one hundred thirty (130) decibels on a scale beginning with zero decibels for the faintest detectable sound. Decibels are measured with a sound level meter using different methodologies as defined below:
    1. A-weighting (dBA) means the standard A-weighted frequency response of a sound level meter, which de-emphasizes low and high frequencies of sound in a manner similar to the human ear for moderate sounds.
    2. Maximum Sound level (L_{max}) means the maximum sound level measured on a sound level meter.
c. Governmental Agency. The United States, the State of California, Riverside County, any city within Riverside County, any special district within Riverside County or any combination of these agencies.
d. Land Use Permit. A discretionary permit issued by Riverside County pursuant to Riverside County Ordinance No. 348.
e. Motor Vehicle. A vehicle that is self-propelled.
f. Motor Vehicle Sound System. A stereo, radio, tape player, compact disc player, mp3 player, I-POD or other similar device.
g. Noise. Any loud, discordant or disagreeable sound.
h. Occupied Property. Property upon which is located a residence, business or industrial or manufacturing use.
i. Off-Highway Vehicle. A motor vehicle designed to travel over any terrain.
j. Public Property. Property owned by a governmental agency or held open to the public, including, but not limited to, parks, streets, sidewalks, and alleys.

k. Public or Private School. An institution conducting academic instruction at the preschool, elementary school, junior high school, high school, or college level.

l. Sensitive Receptor. A land use that is identified as sensitive to noise in the Noise Element of the Riverside County General Plan, including, but not limited to, residences, schools, hospitals, churches, rest homes, cemeteries or public libraries.

m. Sound Level Meter. An instrument meeting the standards of the American National Standards Institute for Type 1 or Type 2 sound level meters or an instrument that provides equivalent data.

n. Sound Amplifying Equipment. A loudspeaker, microphone, megaphone or other similar device.

Section 4. GENERAL SOUND LEVEL STANDARDS. No person shall create any sound, or allow the creation of any sound, on any property that causes the exterior sound level on any other occupied property to exceed the sound level standards set forth in Table 1.

TABLE 1 SOUND LEVEL STANDARDS (Db L_{max})					
GENERAL PLAN FOUNDATION COMPONENT	**GENERAL PLAN LAND USE DESIGNATION**	**GENERAL PLAN LAND USE DESIGNATION NAME**	**DENSITY**	**MAXIMUM DECIBEL LEVEL**	
				7am-10pm	**10pm-7am**
Community Development	EDR	Estate Density Residential	2 AC	55	45
	VLDR	Very Low density Residential	1 AC	55	45
	LDR	Low Density Residential	1/2 AC	55	45
	MDR	Medium Density Residential	2--5	55	45
	MHDR	Medium High Density Residential	5--8	55	45
	HDR	High Density Residential	8--14	55	45
	VHDR	Very High Density Residential	14-20	55	45
	H'TDR	Highest Density Residential	20+	55	45
	CR	Retail Commercial		65	55
	CO	Office Commercial		65	55
	CT	Tourist Commercial		65	55
	CC	Community Center		65	55
	LI	Light Industrial		75	55
	HI	Heavy Industrial		75	75
	BP	Business Park		65	45
	PF	Public Facility		65	45
	SP	Specific Plan-Residential		55	45
		Specific Plan-Commercial		65	55
		Specific Plan-Light Industrial		75	55
		Specific Plan-Heavy Industrial		75	75
Rural Community	EDR	Estate Density Residential	2 ac	55	45
	VLDR	Very Low Density Residential	1 ac	55	45
	LDR	Low Density Residential	1/2 ac	55	45
Rural	RR	Rural Residential	5 ac	45	45
	RM	Rural Mountainous	10 ac	45	45
	RD	Rural Desert	10 ac	45	45
Agriculture	AG	Agriculture	10 AC	45	45
Open Space	C	Conservation		45	45
	CH	Conservation Habitat		45	45
	REC	Recreation		45	45
	RUR	Rural	20 AC	45	45
	W	Watershed		45	45
	MR	Mineral Resources		75	45

Section 5. SOUND LEVEL MEASUREMENT METHODOLOGY. Sound level measurements may be made anywhere within the boundaries of an occupied property. The actual location of a sound level measurement shall be at the discretion of the enforcement officials identified in Section 8. of this ordinance. Sound level measurements shall be made with a sound level meter. Immediately before a measurement is made, the sound level meter shall be calibrated utilizing an acoustical calibrator meeting the standards of the American National Standards Institute. Following a sound level measurement, the calibration of the sound level meter shall be re-verified. Sound level meters and calibration equipment shall be certified annually.

Section 6. SPECIAL SOUND SOURCES STANDARDS. The general sound level standards set forth in Section 4. of this ordinance apply to sound emanating from all sources, including the following special sound sources, and the person creating, or allowing the creation of, the sound is subject to the requirements of that section. The following special sound sources are also subject to the following additional standards, the failure to comply with which constitute separate violations of this ordinance.

a. Motor Vehicles.
   1. Off-Highway Vehicles.
      i. No person shall operate an off-highway vehicle unless it is equipped with a USDA qualified spark arrester and a constantly operating and properly maintained muffler. A muffler is not considered constantly operating and properly maintained if it is equipped with a cutout, bypass or similar device.
      ii. No person shall operate an off-highway vehicle unless the noise emitted by the vehicle is not more than 96 dBA if the vehicle was manufactured on or after January 1, 1986 or is not more that 101 dBA if the vehicle was manufactured before January 1, 1986. For purposes of this subsection, emitted noise shall be measured a distance of twenty (20) inches from the vehicle tailpipe using test procedures established by the Society of Automotive Engineers under Standard J-1287.
   2. Sound Systems. No person shall operate a motor vehicle sound system, whether affixed to the vehicle or not, between the hours of 10:00 p.m. and 8:00 a.m., such that the sound system is audible to the human ear inside any inhabited dwelling. No person shall operate a motor vehicle sound system, whether affixed to the vehicle or not, at any other time such that the sound system is audible to the human ear at a distance greater than one hundred (100) feet from the vehicle.

b. Power Tools and Equipment. No person shall operate any power tools or equipment between the hours of 10:00 p.m. and 8:00 a.m. such that the power tools or equipment are audible to the human ear inside an inhabited dwelling other than a dwelling in which the power tools or equipment may be located. No person shall operate any power tools or equipment at any other time such that the power tools

or equipment are audible to the human ear at a distance greater than one hundred (100) feet from the power tools or equipment.

c. Audio Equipment. No person shall operate any audio equipment, whether portable or not, between the hours of 10:00 p.m. and 8:00 a.m. such that the equipment is audible to the human ear inside an inhabited dwelling other than a dwelling in which the equipment may be located. No person shall operate any audio equipment, whether portable or not, at any other time such that the equipment is audible to the human ear at a distance greater than one hundred (100) feet from the equipment.

d. Sound Amplifying Equipment and Live Music. No person shall install, use or operate sound amplifying equipment, or perform, or allow to be performed, live music unless such activities comply with the following requirements. To the extent that these requirements conflict with any conditions of approval attached to an underlying land use permit, these requirements shall control.

1. Sound amplifying equipment or live music is prohibited between the hours of 10:00 p.m. and 8:00 a.m.
2. Sound emanating from sound amplifying equipment or live music at any other time shall not be audible to the human ear at a distance greater than two hundred (200) feet from the equipment or music.

Section 7. EXCEPTIONS. Exceptions may be requested from the standards set forth in Sections 4. or 6. of this ordinance and may be characterized as construction-related, single event or continuous events exceptions.

a. Application and Processing.

1. Construction-Related Exceptions. An application for a construction-related exception shall be made to and considered by the Director of Building and Safety on forms provided by the Building and Safety Department and shall be accompanied by the appropriate filing fee. No public hearing is required.
2. Single Event Exceptions. An application for a single event exception shall be made to and considered by the Planning Director on forms provided by the Planning Department and shall be accompanied by the appropriate filing fee. No public hearing is required.
3. Continuous Events Exceptions. An application for a continuous events exception shall be made to the Planning Director on forms provided by the Planning Department and shall be accompanied by the appropriate filing fee. Upon receipt of an application for a continuous events exception, the Planning Director shall set the matter for public hearing before the Planning Commission, notice of which shall be given as provided in Section 18.26.c. of Riverside County Ordinance No. 348. Notwithstanding the above, an application for a

continuous events exception that is associated with an application for a land use permit shall be processed concurrently with the land use permit in the same manner that the land use permit is required to be processed.

b. Requirements for Approval. The appropriate decision making body or officer shall not approve an exception application unless the applicant demonstrates that the activities described in the application would not be detrimental to the health, safety or general welfare of the community. In determining whether activities are detrimental to the health, safety or general welfare of the community, the appropriate decision making body or officer shall consider such factors as the proposed duration of the activities and their location in relation to sensitive receptors. If an exception application is approved, reasonable conditions may be imposed to minimize the public detriment, including, but not limited to, restrictions on sound level, sound duration and operating hours.

c. Appeals. The Director of Building and Safety's decision on an application for a construction-related exception is considered final. The Planning Director's decision on an application for a single event exception is considered final. After making a decision on an application for a continuous events exception, the appropriate decision making body or officer shall mail notice of the decision to the applicant. Within ten (10) calendar days after the mailing of such notice, the applicant or an interested person may appeal the decision to the Board of Supervisors. Upon receipt of an appeal and payment of the appropriate appeal fee, the Clerk of the Board shall set the matter for hearing not less than five (5) days nor more than thirty (30) days thereafter and shall give written notice of the hearing in the same manner as notice of the hearing was given by the appropriate hearing officer or body. The Board of Supervisors shall render its decision within thirty (30) days after the appeal hearing is closed.

d. Effect of a Pending Continuous Events Exception Application. For a period of one hundred and eighty (180) days from the effective date of this ordinance, no person creating any sound prohibited by this ordinance shall be considered in violation of this ordinance if the sound is related to a use that is operating pursuant to an approved land use permit, if an application for a continuous events exception has been filed to sanction the sound and if a decision on the application is pending.

Section 8. ENFORCEMENT. The Riverside County Sheriff and Code Enforcement shall have the primary responsibility for enforcing this ordinance; provided, however, the Sheriff and Code Enforcement may be assisted by the Public Health Department. Violations shall be prosecuted as described in Section 10. of this ordinance, but nothing in this ordinance shall prevent the Sheriff, Code Enforcement or the Department of Public Health from engaging in efforts to obtain voluntary compliance by means of warnings, notices, or educational programs.

Section 9. DUTY TO COOPERATE. No person shall refuse to cooperate with, or obstruct, the enforcement officials identified in Section 8. of this ordinance when they are engaged in the process of enforcing the provisions of this ordinance. This duty to cooperate may require a person to extinguish a sound source so that it can be determined whether sound emanating from the source violates the provisions of this ordinance.

Section 10. VIOLATIONS AND PENALTIES. Any person who violates any provision of this ordinance once or twice within a one hundred and eighty (180) day period shall be guilty of an infraction. Any person who violates any provision of this ordinance more than twice within a one hundred and eighty (180) day period shall be guilty of a misdemeanor. Each day a violation is committed or permitted to continue shall constitute a separate offense and shall be punishable as such. Penalties shall not exceed the following amounts.

a. For the first violation within a one hundred and eighty (180) day period the minimum mandatory fine shall be five hundred dollars ($500).
b. For the second violation within a one hundred and eighty (180) day period the minimum mandatory fine shall be seven hundred and fifty dollars ($750).
c. For any further violations within a one hundred and eighty (180) day period the minimum mandatory fine shall be one thousand dollars ($1,000) or imprisonment in the County jail for a period not exceeding six (6) months, or both.

Section 11. SEVERABILITY. If any provision of this ordinance, or the application thereof to any person or circumstance, is held invalid, such invalidity shall not affect the remainder of the ordinance or the application of such provision(s) to other persons or circumstances.

Section 12. SAVINGS CLAUSE. The adoption of this ordinance shall not in any manner affect the prosecution of ordinance violations, which violations were committed prior to the effective date of this ordinance, nor be construed as a waiver of any permit, license, penalty or penal provisions applicable to such violations. The provisions of this ordinance, insofar as they are substantially the same as ordinance provisions previously adopted by Riverside County relating to the same subject matter, shall be construed as restatements and continuations, and not as new enactments.

Section 13. EFFECTIVE DATE. This ordinance shall take effect 30 days after its adoption.

Adopted: 847 Item 3.19 of 04/04/2006 (Eff: 05/04/2006)
Amended: 847.1 Item 3.4 of 06/19/2007 (Eff: 07/19/2007)

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APPENDIX 5.1:

STUDY AREA PHOTOS

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JN: 16994 - Mission Springs - 306



16694_L1_East
33, 58' 58.866600"116, 32' 17.938680"



16694_L1_North
33, 58' 58.866600"116, 32' 17.938680"



16694_L1_South
33, 58' 58.866600"116, 32' 17.938680"



16694_L1_West
33, 58' 58.866600"116, 32' 17.938680"

JN: 16994 - Mission Springs - 306



16694_L2_East
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16694_L2_North
33, 58' 38.715599"116, 32' 5.703360"



16694_L2_South
33, 58' 38.715599"116, 32' 5.703360"



16694_L2_West
33, 58' 38.715599"116, 32' 5.703360"

JN: 16994 - Mission Springs - 306



16694_L3_East
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16694_L3_North
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16694_L3_South
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16694_L3_West
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JN: 16994 - Mission Springs - 306



16694_L4_East
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16694_L4_North
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16694_L4_South
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16694_L4_West
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JN: 16994 - Mission Springs - 306



16694_L5_East
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16694_L5_North
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16694_L5_South
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16694_L5_West
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JN: 16994 - Mission Springs - 306



16694_L6_East
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16694_L6_North
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16694_L6_South
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16694_L6_West
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JN: 16994 - Mission Springs - 306



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16694_L7_North
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16694_L7_South
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16694_L7_West
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JN: 16994 - Mission Springs - 306



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16694_L8_North
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16694_L8_South
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16694_L8_West
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JN: 16994 - Mission Springs - 306



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16694_L9_North
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16694_L9_South
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16694_L9_West
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JN: 16994 - Mission Springs - 306



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16694_L10_South
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16694_L10_West
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JN: 16994 - Mission Springs - 306



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16694_L11_South
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16694_L11_West
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JN: 16994 - Mission Springs - 306



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16694_L12_South
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16694_L12_West
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JN: 16994 - Mission Springs - 306



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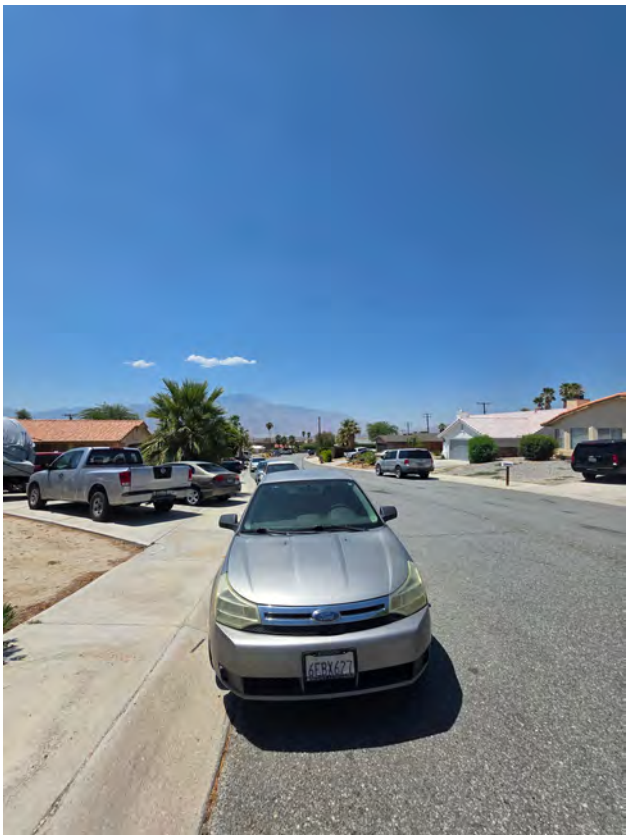

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JN: 16994 - Mission Springs - 306



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16694_L14_South
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16694_L14_West
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JN: 16994 - Mission Springs - 306



16694_L15_East
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16694_L15_North
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16694_L15_South
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16694_L15_West
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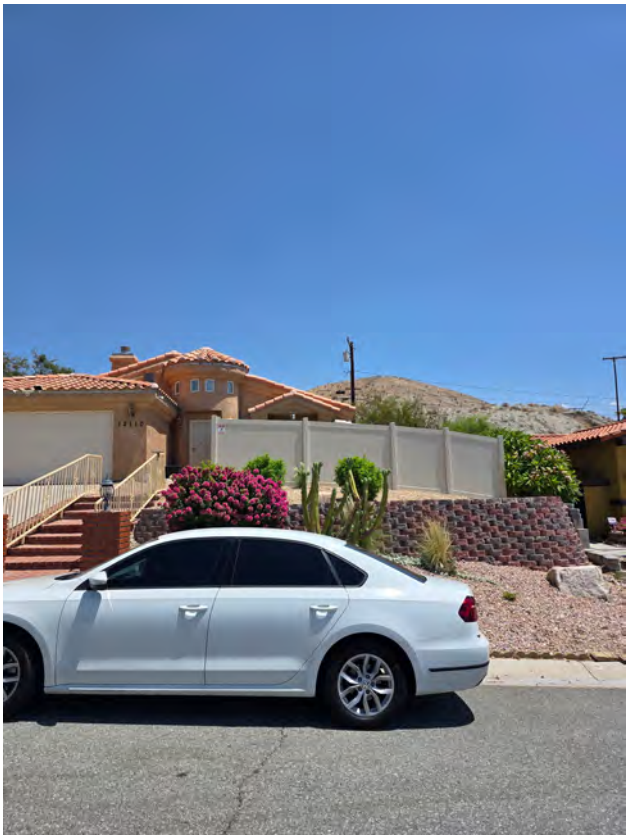
JN: 16994 - Mission Springs - 306



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16694_L16_North
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16694_L16_South
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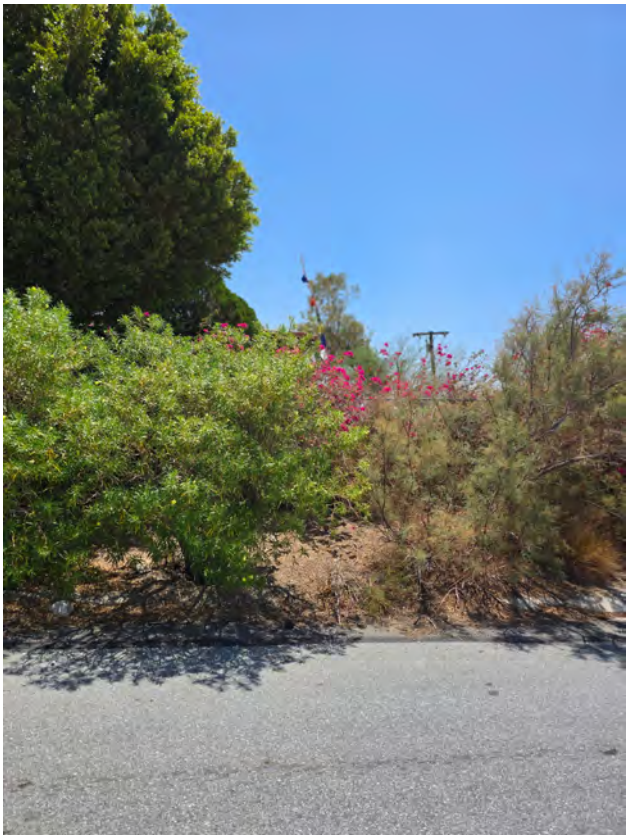
16694_L16_West
33, 57' 38.154240"116, 28' 7.999319"

JN: 16994 - Mission Springs - 306



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16694_L17_South
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16694_L17_West
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JN: 16994 - Mission Springs - 306



16694_L18_East
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16694_L18_North
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16694_L18_South
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16694_L18_West
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JN: 16994 - Mission Springs - 306



16694_L19_East
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16694_L19_North
33, 55' 9.495480"116, 32' 41.686080"



16694_L19_South
33, 55' 9.495480"116, 32' 41.686080"



16694_L19_West
33, 55' 9.495480"116, 32' 41.686080"

JN: 16994 - Mission Springs - 306



16694_L20_East
33, 55' 4.087200"116, 32' 38.119199"



16694_L20_North
33, 55' 4.115280"116, 32' 38.192640"



16694_L20_South
33, 55' 4.087200"116, 32' 38.119199"



16694_L20_West
33, 55' 4.098000"116, 32' 38.162760"

APPENDIX 5.2:

NOISE LEVEL MEASUREMENT WORKSHEETS

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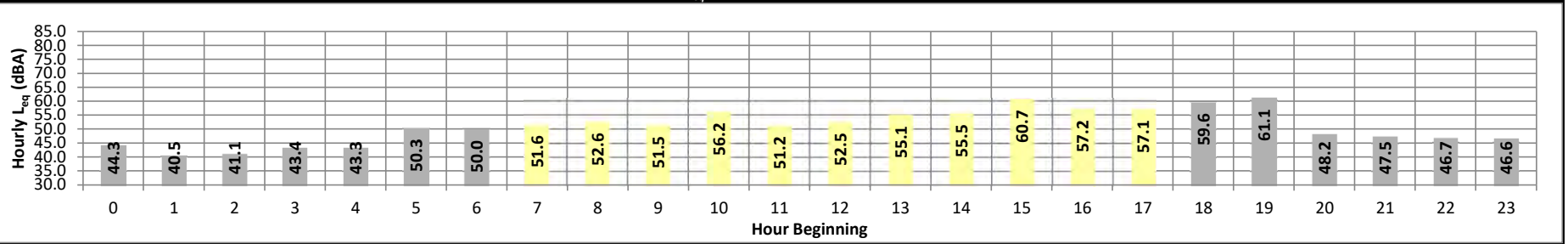
24-Hour Noise Level Measurement Summary

Date: Thursday, August 14, 2025 *Location:* L1 - Located near residence at 9045 Clubhouse Blvd *Meter:* Piccolo II *JN:* 16694

Project: Mission Springs 306 *Source:* *Analyst:* B. Maddux

Hourly L_{eq} dBA Readings (unadjusted)



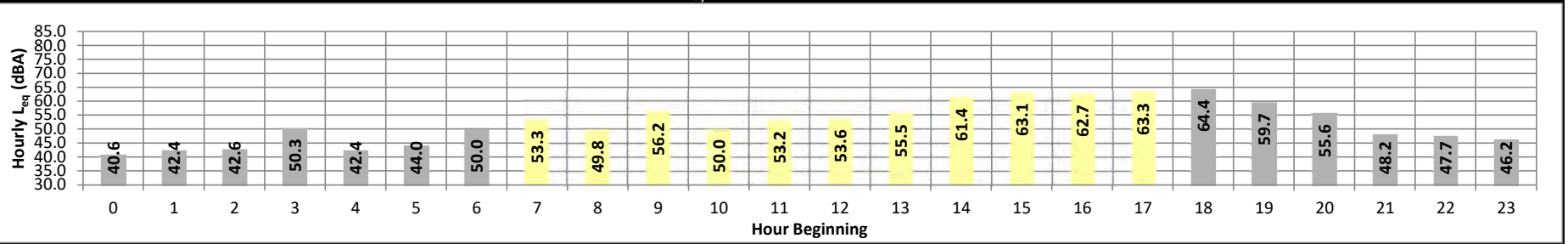
Timeframe	*Hour*	*L_{eq}*	*L_{max}*	*L_{min}*	*L1%*	*L2%*	*L5%*	*L8%*	*L25%*	*L50%*	*L90%*	*L95%*	*L99%*	*L_{eq}*	*Adj.*	*Adj. L_{eq}*
Night	0	44.3	52.7	41.6	52.3	51.6	49.1	46.9	43.4	42.7	41.8	41.6	41.5	44.3	10.0	54.3
	1	40.5	42.6	39.4	42.3	42.2	41.8	41.5	40.7	40.2	39.6	39.4	39.3	40.5	10.0	50.5
	2	41.1	48.2	38.8	47.1	46.5	45.3	44.5	41.0	39.3	38.7	38.7	38.7	41.1	10.0	51.1
	3	43.4	53.6	39.1	53.4	52.9	49.9	47.5	40.8	39.8	39.2	39.1	39.1	43.4	10.0	53.4
	4	43.3	53.6	39.1	53.4	52.9	50.6	47.5	40.0	39.4	39.1	39.1	39.1	43.3	10.0	53.3
	5	50.3	61.3	40.5	61.1	60.7	58.5	55.8	46.9	42.8	40.9	40.7	40.5	50.3	10.0	60.3
	6	50.0	60.2	42.4	59.9	59.4	57.4	54.7	48.0	45.5	43.2	42.9	42.5	50.0	10.0	60.0
Day	7	51.6	62.8	41.5	62.2	61.7	59.3	57.1	49.2	44.9	42.1	41.8	41.5	51.6	0.0	51.6
	8	52.6	63.2	41.6	62.9	62.4	60.4	58.2	50.8	45.7	42.2	41.9	41.7	52.6	0.0	52.6
	9	51.5	62.6	40.2	62.0	61.3	59.3	56.9	49.5	45.4	40.8	40.5	40.2	51.5	0.0	51.5
	10	56.2	62.4	51.1	62.2	61.9	60.7	59.5	56.3	55.4	52.5	52.4	51.7	56.2	0.0	56.2
	11	51.2	61.2	40.2	60.9	60.6	58.8	57.1	50.0	44.3	40.7	40.4	40.2	51.2	0.0	51.2
	12	52.5	62.0	46.4	61.6	61.1	58.9	56.7	51.7	49.0	47.1	46.8	46.5	52.5	0.0	52.5
	13	55.1	64.0	47.3	63.8	63.4	62.0	60.3	54.6	50.9	48.2	47.8	47.4	55.1	0.0	55.1
	14	55.5	63.2	50.8	62.8	62.4	60.7	59.2	55.4	53.5	51.6	51.3	50.9	55.5	0.0	55.5
	15	60.7	68.1	53.3	67.6	67.1	66.1	64.6	61.5	58.7	54.7	54.1	53.5	60.7	0.0	60.7
	16	57.2	64.6	52.5	64.0	63.3	61.8	60.7	57.6	55.4	53.3	52.9	52.6	57.2	0.0	57.2
	17	57.1	64.6	52.4	64.0	63.4	61.6	60.4	57.5	55.5	53.2	52.8	52.5	57.1	0.0	57.1
Night	18	59.6	69.3	53.0	68.9	68.3	66.4	64.1	58.7	56.2	53.8	53.5	53.1	59.6	0.0	59.6
	19	61.1	64.1	59.0	63.9	63.6	63.2	62.8	61.7	60.8	59.5	59.3	59.1	61.1	5.0	66.1
	20	48.2	57.6	42.8	57.2	56.8	54.9	52.7	46.9	44.9	43.3	43.1	42.8	48.2	5.0	53.2
	21	47.5	57.6	39.8	57.3	57.0	55.3	53.0	45.3	41.4	39.9	39.8	39.7	47.5	5.0	52.5
	22	46.7	57.0	40.4	56.7	56.4	54.2	51.8	43.7	41.3	40.5	40.4	40.4	46.7	10.0	56.7
	23	46.6	56.2	41.2	56.0	55.7	54.1	51.9	44.2	42.2	41.3	41.2	41.1	46.6	10.0	56.6

Timeframe	*Hour*	*L_{eq}*	*L_{max}*	*L_{min}*	*L1%*	*L2%*	*L5%*	*L8%*	*L25%*	*L50%*	*L90%*	*L95%*	*L99%*	*Leq (dBA)*		
														dBA CNEL	*Daytime (7am-6pm)*	*Nighttime (6pm-7am)*
Day	Min	51.2	61.2	40.2	60.9	60.6	58.8	56.7	49.2	44.3	40.7	40.4	40.2			
	Max	60.7	68.1	53.3	67.6	67.1	66.1	64.6	61.5	58.7	54.7	54.1	53.5			
Energy Average		55.7	Average:		63.1	62.6	60.9	59.2	54.0	50.8	47.9	47.5	47.1			
Night	Min	40.5	42.6	38.8	42.3	42.2	41.8	41.5	40.0	39.3	38.7	38.7	38.7	**57.5**	**55.7**	**53.2**
	Max	61.1	69.3	59.0	68.9	68.3	66.4	64.1	61.7	60.8	59.5	59.3	59.1			
Energy Average		53.2	Average:		56.1	55.7	53.9	51.9	46.3	44.3	43.2	43.0	42.8			

24-Hour Noise Level Measurement Summary

Date: Thursday, August 14, 2025 *Location:* L2- Located near residence at 64537 Spyglass Ave *Meter:* Piccolo II *JN:* 16694
Project: Mission Springs 306 *Source:* *Analyst:* B. Maddux

Hourly L_{eq} dBA Readings (unadjusted)



Timeframe	*Hour*	*L_{eq}*	*L_{max}*	*L_{min}*	*L1%*	*L2%*	*L5%*	*L8%*	*L25%*	*L50%*	*L90%*	*L95%*	*L99%*	*L_{eq}*	*Adj.*	*Adj. L_{eq}*
Night	0	40.6	45.7	38.1	45.3	44.8	43.9	43.2	41.1	39.6	38.4	38.3	38.2	40.6	10.0	50.6
	1	42.4	48.3	38.1	47.7	47.2	46.2	45.6	43.4	40.9	39.1	38.6	38.2	42.4	10.0	52.4
	2	42.6	50.6	39.8	49.2	47.9	45.5	44.7	43.0	41.6	40.2	40.0	39.8	42.6	10.0	52.6
	3	50.3	62.1	40.9	61.8	61.1	58.2	54.6	47.2	43.8	41.6	41.2	40.9	50.3	10.0	60.3
	4	42.4	51.0	38.6	50.8	50.3	48.6	47.0	40.9	39.6	38.9	38.8	38.7	42.4	10.0	52.4
	5	44.0	53.5	38.9	53.1	52.7	51.1	48.5	42.7	40.3	39.3	39.1	38.9	44.0	10.0	54.0
	6	50.0	59.3	45.0	58.7	58.1	56.3	54.2	48.9	47.3	45.4	45.3	45.1	50.0	10.0	60.0
Day	7	53.3	62.6	40.1	62.0	61.5	60.4	58.7	53.0	49.9	42.2	40.7	40.2	53.3	0.0	53.3
	8	49.8	60.9	39.7	60.5	60.1	58.2	55.4	46.3	42.6	40.4	40.1	39.8	49.8	0.0	49.8
	9	56.2	64.9	44.7	64.2	63.7	62.3	60.8	56.3	54.1	46.9	46.4	44.9	56.2	0.0	56.2
	10	50.0	60.0	42.3	59.5	59.1	57.3	55.3	48.8	44.5	42.8	42.6	42.4	50.0	0.0	50.0
	11	53.2	63.7	44.0	62.9	62.0	60.0	58.2	52.1	49.2	44.8	44.3	44.1	53.2	0.0	53.2
	12	53.6	61.9	48.6	61.4	60.8	59.0	57.1	53.5	51.9	49.6	49.1	48.7	53.6	0.0	53.6
	13	55.5	63.3	49.8	62.8	62.3	60.7	59.3	55.8	53.6	50.7	50.3	49.9	55.5	0.0	55.5
	14	61.4	70.2	53.4	69.4	68.5	66.8	65.6	61.7	59.1	54.9	54.2	53.6	61.4	0.0	61.4
	15	63.1	72.9	54.4	72.0	71.1	69.0	67.6	63.2	59.9	55.9	55.3	54.6	63.1	0.0	63.1
	16	62.7	72.3	54.8	71.5	70.8	68.7	66.7	62.7	59.9	56.2	55.7	54.9	62.7	0.0	62.7
	17	63.3	71.8	55.9	71.1	70.2	68.3	67.2	63.8	61.4	57.5	56.8	56.1	63.3	0.0	63.3
Night	18	64.4	73.4	56.2	72.7	71.7	69.9	68.8	64.8	61.8	57.9	57.2	56.4	64.4	0.0	64.4
	19	59.7	68.0	52.2	67.3	66.6	65.0	63.9	60.3	57.3	53.7	52.9	52.3	59.7	5.0	64.7
	20	55.6	64.7	46.8	64.1	63.6	62.2	60.9	55.0	51.3	48.0	47.5	46.9	55.6	5.0	60.6
	21	48.2	58.9	42.2	58.0	56.6	54.4	52.4	47.4	44.6	42.6	42.4	42.3	48.2	5.0	53.2
	22	47.7	58.4	41.1	58.0	57.6	55.7	52.9	44.4	42.4	41.5	41.3	41.2	47.7	10.0	57.7
	23	46.2	55.4	41.4	55.0	54.6	53.1	50.6	45.1	42.6	41.7	41.5	41.4	46.2	10.0	56.2

Timeframe	*Hour*	*L_{eq}*	*L_{max}*	*L_{min}*	*L1%*	*L2%*	*L5%*	*L8%*	*L25%*	*L50%*	*L90%*	*L95%*	*L99%*
Day	Min	49.8	60.0	39.7	59.5	59.1	57.3	55.3	46.3	42.6	40.4	40.1	39.8
	Max	63.3	72.9	55.9	72.0	71.1	69.0	67.6	63.8	61.4	57.5	56.8	56.1
Energy Average		59.2	Average:		65.2	64.6	62.8	61.1	56.1	53.3	49.3	48.7	48.1
Night	Min	40.6	45.7	38.1	45.3	44.8	43.9	43.2	40.9	39.6	38.4	38.3	38.2
	Max	64.4	73.4	56.2	72.7	71.7	69.9	68.8	64.8	61.8	57.9	57.2	56.4
Energy Average		55.4	Average:		57.1	56.4	54.6	52.9	48.0	45.6	43.7	43.4	43.1

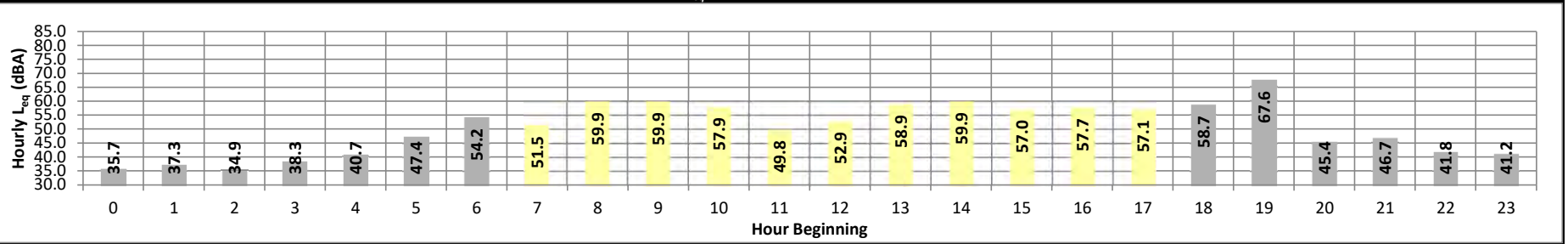
dBA CNEL	*Leq (dBA) Daytime (7am-6pm)*	*Leq (dBA) Nighttime (6pm-7am)*
59.2	**59.2**	**55.4**

24-Hour Noise Level Measurement Summary

Date: Thursday, August 14, 2025 *Location:* L3- Located near residence at 9100 Oakmount Blvd. *Meter:* Piccolo II *JN:* 16694

Project: Mission Springs 306 *Source:* *Analyst:* B. Maddux

Hourly L_{eq} dBA Readings (unadjusted)



Timeframe	Hour	L_{eq}	L_{max}	L_{min}	L1%	L2%	L5%	L8%	L25%	L50%	L90%	L95%	L99%	L_{eq}	Adj.	Adj. L_{eq}
Night	0	35.7	38.0	34.7	37.7	37.5	36.9	36.6	36.0	35.5	35.0	34.9	34.8	35.7	10.0	45.7
	1	37.3	40.7	35.5	40.5	40.4	40.1	39.6	37.6	36.7	35.9	35.8	35.6	37.3	10.0	47.3
	2	34.9	36.5	34.1	36.2	36.0	35.7	35.6	35.2	34.8	34.3	34.2	34.1	34.9	10.0	44.9
	3	38.3	45.9	34.5	45.5	45.3	43.9	42.3	38.1	36.0	34.9	34.8	34.6	38.3	10.0	48.3
	4	40.7	50.6	36.2	50.3	49.7	47.7	44.9	38.3	37.1	36.5	36.4	36.3	40.7	10.0	50.7
	5	47.4	59.7	36.3	59.3	58.7	55.8	52.7	41.2	37.5	36.6	36.5	36.3	47.4	10.0	57.4
	6	54.2	66.4	38.0	66.0	65.4	62.5	59.9	50.4	41.3	38.8	38.5	38.2	54.2	10.0	64.2
Day	7	51.5	63.0	40.0	62.5	61.9	59.2	56.6	49.1	44.5	41.0	40.6	40.2	51.5	0.0	51.5
	8	59.9	74.6	47.2	72.8	70.8	66.6	63.6	57.4	51.0	47.7	47.6	47.3	59.9	0.0	59.9
	9	59.9	71.0	49.9	70.6	70.1	67.6	64.7	57.1	53.4	51.1	50.6	50.1	59.9	0.0	59.9
	10	57.9	62.5	54.1	62.2	62.0	61.0	60.2	58.7	57.4	54.9	54.6	54.3	57.9	0.0	57.9
	11	49.8	61.8	39.4	61.3	60.6	57.7	54.9	46.0	42.0	40.0	39.8	39.5	49.8	0.0	49.8
	12	52.9	62.3	47.1	61.7	61.1	58.7	56.7	52.5	50.3	48.0	47.6	47.2	52.9	0.0	52.9
	13	58.9	69.0	47.8	68.7	68.3	66.3	64.6	57.2	52.5	48.9	48.2	47.9	58.9	0.0	58.9
	14	59.9	69.2	53.5	69.0	68.4	66.5	63.6	59.6	56.9	54.5	54.2	53.8	59.9	0.0	59.9
	15	57.0	63.8	53.4	63.3	62.6	60.8	59.5	57.4	56.1	54.0	53.8	53.5	57.0	0.0	57.0
	16	57.7	66.9	53.4	66.2	65.2	62.1	60.2	57.6	56.1	54.2	53.8	53.5	57.7	0.0	57.7
	17	57.1	63.4	53.4	62.9	62.4	60.7	59.7	57.6	56.3	54.2	53.9	53.5	57.1	0.0	57.1
Night	18	58.7	64.6	54.8	63.9	63.3	61.9	61.1	59.4	58.0	55.8	55.3	54.9	58.7	0.0	58.7
	19	67.6	70.2	64.7	70.1	69.9	69.1	68.8	68.4	67.7	65.3	65.1	64.8	67.6	5.0	72.6
	20	45.4	55.2	39.9	54.8	54.4	52.5	50.1	43.7	41.4	40.2	40.1	39.9	45.4	5.0	50.4
	21	46.7	58.1	37.7	57.6	57.1	54.5	52.3	42.9	40.0	38.2	38.0	37.8	46.7	5.0	51.7
	22	41.8	52.2	35.5	51.8	51.3	49.3	47.0	39.5	36.8	35.9	35.8	35.6	41.8	10.0	51.8
	23	41.2	52.6	35.3	52.1	51.5	48.8	45.1	37.5	36.1	35.6	35.5	35.4	41.2	10.0	51.2

Timeframe	Hour	L_{eq}	L_{max}	L_{min}	L1%	L2%	L5%	L8%	L25%	L50%	L90%	L95%	L99%
Day	Min	49.8	61.8	39.4	61.3	60.6	57.7	54.9	46.0	42.0	40.0	39.8	39.5
	Max	59.9	74.6	54.1	72.8	70.8	67.6	64.7	59.6	57.4	54.9	54.6	54.3
Energy Average		57.6	Average:		65.6	64.9	62.5	60.4	55.5	52.4	49.9	49.5	49.2
Night	Min	34.9	36.5	34.1	36.2	36.0	35.7	35.6	35.2	34.8	34.3	34.2	34.1
	Max	67.6	70.2	64.7	70.1	69.9	69.1	68.8	68.4	67.7	65.3	65.1	64.8
Energy Average		57.2	Average:		52.8	52.3	50.7	48.9	43.7	41.4	40.2	40.1	39.9

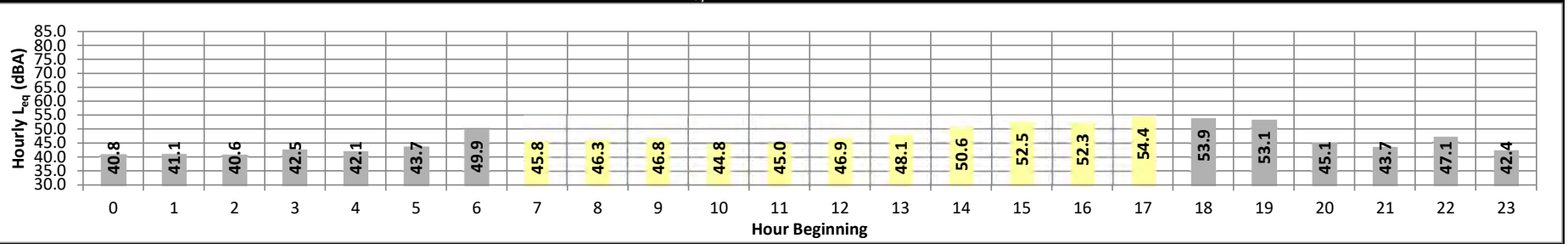
dBA CNEL	Leq (dBA) Daytime (7am-6pm)	Leq (dBA) Nighttime (6pm-7am)
60.8	**57.6**	**57.2**

24-Hour Noise Level Measurement Summary

Date: Thursday, August 14, 2025 *Location:* L4- Located near residence at 66334 San Juan Rd. *Meter:* Piccolo II *JN:* 16694

Project: Mission Springs 306 *Source:* *Analyst:* B. Maddux

Hourly L_{eq} dBA Readings (unadjusted)



Timeframe	*Hour*	*L_{eq}*	*L_{max}*	*L_{min}*	*L1%*	*L2%*	*L5%*	*L8%*	*L25%*	*L50%*	*L90%*	*L95%*	*L99%*	*L_{eq}*	*Adj.*	*Adj. L_{eq}*
Night	0	40.8	43.9	40.1	43.4	43.0	42.1	41.7	40.8	40.4	40.1	40.0	40.0	40.8	10.0	50.8
	1	41.1	44.1	40.3	43.7	43.3	42.5	42.0	41.1	40.7	40.4	40.3	40.3	41.1	10.0	51.1
	2	40.6	41.6	40.2	41.4	41.2	41.0	40.9	40.6	40.4	40.2	40.1	40.1	40.6	10.0	50.6
	3	42.5	48.3	40.6	48.1	47.8	46.2	45.1	42.2	41.3	40.7	40.6	40.5	42.5	10.0	52.5
	4	42.1	47.4	41.0	46.5	45.6	44.1	43.3	41.9	41.5	41.1	41.0	41.0	42.1	10.0	52.1
	5	43.7	51.2	40.9	50.2	49.3	47.4	46.5	44.0	42.1	41.1	41.0	40.9	43.7	10.0	53.7
	6	49.9	58.7	42.4	57.8	57.2	55.7	54.7	49.9	46.7	43.0	42.8	42.4	49.9	10.0	59.9
Day	7	45.8	54.3	41.2	53.6	53.1	51.4	50.3	45.8	43.1	41.5	41.4	41.2	45.8	0.0	45.8
	8	46.3	55.1	41.9	54.5	53.9	52.0	50.2	45.6	43.8	42.3	42.1	41.9	46.3	0.0	46.3
	9	46.8	52.3	42.7	51.9	51.5	50.5	50.0	47.2	45.8	43.3	43.0	42.7	46.8	0.0	46.8
	10	44.8	52.6	41.6	52.0	51.2	49.7	48.2	44.7	42.8	41.7	41.6	41.5	44.8	0.0	44.8
	11	45.0	52.1	42.2	51.5	50.8	49.2	47.9	45.1	43.5	42.5	42.4	42.3	45.0	0.0	45.0
	12	46.9	54.8	43.4	54.1	53.2	51.2	49.7	47.0	45.2	43.9	43.7	43.4	46.9	0.0	46.9
	13	48.1	55.0	44.1	54.5	54.0	52.6	51.4	48.5	46.4	44.7	44.4	44.2	48.1	0.0	48.1
	14	50.6	55.8	47.4	55.4	54.8	53.8	53.0	51.2	49.8	48.1	47.7	47.4	50.6	0.0	50.6
	15	52.5	57.7	48.9	57.3	56.8	55.9	55.2	53.3	51.8	49.7	49.3	49.0	52.5	0.0	52.5
	16	52.3	57.9	48.4	57.6	57.0	55.7	55.0	53.1	51.5	49.2	48.9	48.5	52.3	0.0	52.3
	17	54.4	61.4	49.6	61.2	60.8	59.4	57.8	54.5	52.9	50.6	50.2	49.7	54.4	0.0	54.4
Night	18	53.9	59.4	50.0	58.9	58.5	57.3	56.4	54.6	53.1	51.0	50.6	50.1	53.9	0.0	53.9
	19	53.1	57.8	49.5	57.5	57.1	56.2	55.4	53.8	52.6	50.4	50.1	49.6	53.1	5.0	58.1
	20	45.1	52.9	42.3	52.0	51.2	49.1	47.9	45.1	43.6	42.5	42.4	42.3	45.1	5.0	50.1
	21	43.7	49.8	41.5	49.0	48.4	47.2	46.2	43.9	42.6	41.6	41.5	41.4	43.7	5.0	48.7
	22	47.1	56.9	41.1	56.1	55.1	52.5	51.2	47.0	44.3	41.4	41.2	41.1	47.1	10.0	57.1
	23	42.4	46.4	41.1	45.9	45.4	44.5	43.9	42.5	41.8	41.2	41.1	41.0	42.4	10.0	52.4

Timeframe	*Hour*	*L_{eq}*	*L_{max}*	*L_{min}*	*L1%*	*L2%*	*L5%*	*L8%*	*L25%*	*L50%*	*L90%*	*L95%*	*L99%*
Day	Min	44.8	52.1	41.2	51.5	50.8	49.2	47.9	44.7	42.8	41.5	41.4	41.2
	Max	54.4	61.4	49.6	61.2	60.8	59.4	57.8	54.5	52.9	50.6	50.2	49.7
Energy Average		49.8	Average:		54.9	54.3	52.8	51.7	48.7	47.0	45.2	45.0	44.7
Night	Min	40.6	41.6	40.1	41.4	41.2	41.0	40.9	40.6	40.4	40.1	40.0	40.0
	Max	53.9	59.4	50.0	58.9	58.5	57.3	56.4	54.6	53.1	51.0	50.6	50.1
Energy Average		47.7	Average:		50.0	49.5	48.1	47.3	45.2	43.9	42.7	42.5	42.4

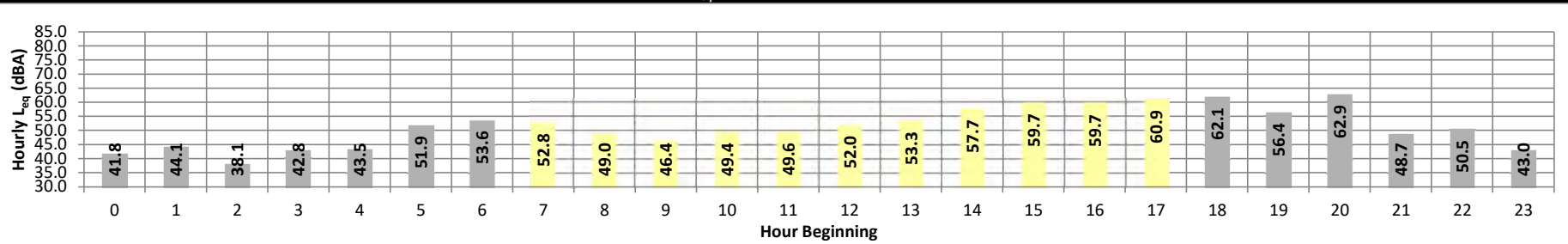
Leq (dBA)		
dBA CNEL	*Daytime (7am-6pm)*	*Nighttime (6pm-7am)*
52.9	**49.8**	**47.7**

24-Hour Noise Level Measurement Summary

Date: Thursday, August 14, 2025 *Location:* L5- Located near residence at 66402 Cactus Dr. *Meter:* Piccolo II *JN:* 16694

Project: Mission Springs 306 *Source:* *Analyst:* B. Maddux

Hourly L_{eq} dBA Readings (unadjusted)



Timeframe	Hour	L_{eq}	L_{max}	L_{min}	L1%	L2%	L5%	L8%	L25%	L50%	L90%	L95%	L99%	L_{eq}	Adj.	Adj. L_{eq}
Night	0	41.8	52.1	36.2	51.5	50.7	48.3	46.7	40.2	38.1	36.6	36.5	36.3	41.8	10.0	51.8
	1	44.1	55.2	36.3	55.0	54.5	51.8	49.8	39.8	37.7	36.6	36.5	36.4	44.1	10.0	54.1
	2	38.1	43.4	35.8	42.8	42.4	41.6	40.9	38.4	37.1	36.0	35.9	35.8	38.1	10.0	48.1
	3	42.8	52.1	37.8	51.4	50.5	47.8	46.4	42.4	40.5	38.4	38.2	37.9	42.8	10.0	52.8
	4	43.5	53.2	38.1	52.7	52.0	49.7	48.2	42.3	39.8	38.5	38.3	38.1	43.5	10.0	53.5
	5	51.9	63.7	37.1	63.3	62.8	60.5	57.9	46.3	43.3	38.0	37.6	37.2	51.9	10.0	61.9
	6	53.6	62.8	41.7	62.2	61.5	59.9	58.9	54.5	49.0	42.4	42.1	41.7	53.6	10.0	63.6
Day	7	52.8	64.6	40.1	64.2	63.5	60.6	58.1	49.5	45.6	41.3	40.7	40.3	52.8	0.0	52.8
	8	49.0	59.9	39.1	59.4	58.8	56.2	54.1	46.7	43.7	40.1	39.7	39.2	49.0	0.0	49.0
	9	46.4	56.7	37.8	56.3	55.6	53.2	51.3	45.2	41.6	38.7	38.3	37.9	46.4	0.0	46.4
	10	49.4	61.0	37.8	60.5	59.9	57.1	54.6	46.4	42.1	38.6	38.3	37.9	49.4	0.0	49.4
	11	49.6	59.6	38.6	59.2	58.7	56.6	54.9	49.1	44.2	39.8	39.2	38.8	49.6	0.0	49.6
	12	52.0	62.2	42.9	61.6	60.8	59.1	57.0	51.3	47.8	43.9	43.5	43.0	52.0	0.0	52.0
	13	53.3	62.0	45.3	61.5	61.0	59.1	57.7	53.7	50.5	46.8	46.2	45.6	53.3	0.0	53.3
	14	57.7	66.9	49.8	66.1	65.2	63.0	61.9	58.2	54.9	51.2	50.6	50.0	57.7	0.0	57.7
	15	59.7	67.5	52.1	67.0	66.4	64.9	63.9	60.5	57.5	53.7	53.0	52.3	59.7	0.0	59.7
	16	59.7	68.3	51.1	67.7	67.1	65.6	64.2	60.0	56.8	52.7	51.9	51.3	59.7	0.0	59.7
	17	60.9	69.3	52.4	68.8	68.2	66.6	65.3	61.6	58.3	54.0	53.2	52.6	60.9	0.0	60.9
Night	18	62.1	72.2	51.6	71.8	71.1	69.8	67.2	61.0	57.0	53.0	52.4	51.8	62.1	0.0	62.1
	19	56.4	66.0	48.2	65.2	64.1	62.2	60.9	56.6	53.4	49.5	49.0	48.4	56.4	5.0	61.4
	20	62.9	70.3	43.2	69.5	69.0	68.0	67.2	64.5	61.3	51.3	48.4	44.3	62.9	5.0	67.9
	21	48.7	59.0	38.1	58.2	57.4	55.3	53.8	48.7	43.7	38.8	38.6	38.3	48.7	5.0	53.7
	22	50.5	63.7	37.7	63.3	62.1	58.3	55.4	43.4	40.3	38.3	38.0	37.8	50.5	10.0	60.5
	23	43.0	52.9	37.3	52.4	52.0	49.6	47.5	41.8	39.3	37.7	37.6	37.4	43.0	10.0	53.0

Timeframe	Hour	L_{eq}	L_{max}	L_{min}	L1%	L2%	L5%	L8%	L25%	L50%	L90%	L95%	L99%
Day	Min	46.4	56.7	37.8	56.3	55.6	53.2	51.3	45.2	41.6	38.6	38.3	37.9
	Max	60.9	69.3	52.4	68.8	68.2	66.6	65.3	61.6	58.3	54.0	53.2	52.6
Energy Average		56.2	Average:		62.9	62.3	60.2	58.5	52.9	49.4	45.5	45.0	44.4
Night	Min	38.1	43.4	35.8	42.8	42.4	41.6	40.9	38.4	37.1	36.0	35.9	35.8
	Max	62.9	72.2	51.6	71.8	71.1	69.8	67.2	64.5	61.3	53.0	52.4	51.8
Energy Average		55.6	Average:		58.4	57.7	55.6	53.9	47.7	44.6	41.2	40.7	40.1

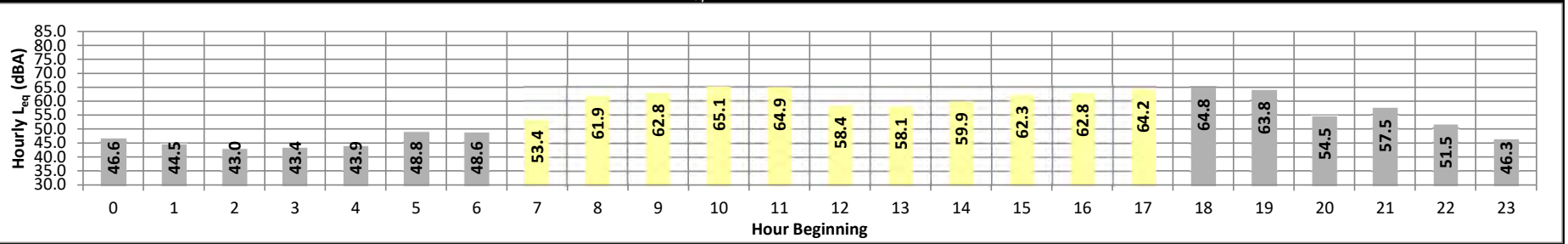
dBA CNEL	Leq (dBA) Daytime (7am-6pm)	Leq (dBA) Nighttime (6pm-7am)
59.2	**56.2**	**55.6**

24-Hour Noise Level Measurement Summary

Date: Thursday, August 14, 2025 *Location:* L6 - Located near residence at 12256 Ambrosio Dr. *Meter:* Piccolo II *JN:* 16694

Project: Mission Springs 306 *Source:* *Analyst:* B. Maddux

Hourly L_{eq} dBA Readings (unadjusted)



Timeframe	Hour	L_{eq}	L_{max}	L_{min}	L1%	L2%	L5%	L8%	L25%	L50%	L90%	L95%	L99%	L_{eq}	Adj.	Adj. L_{eq}
Night	0	46.6	58.8	40.8	58.0	56.8	52.6	49.5	44.5	42.6	41.3	41.1	40.9	46.6	10.0	56.6
	1	44.5	53.1	41.1	51.8	51.2	49.6	47.5	44.0	42.6	41.7	41.4	41.2	44.5	10.0	54.5
	2	43.0	48.5	40.8	47.8	47.3	46.2	45.0	43.1	42.3	41.3	41.1	40.9	43.0	10.0	53.0
	3	43.4	46.2	42.3	45.7	45.3	44.7	44.3	43.6	43.1	42.6	42.5	42.3	43.4	10.0	53.4
	4	43.9	46.3	42.9	46.1	45.7	45.4	45.1	44.3	43.6	43.1	43.0	43.0	43.9	10.0	53.9
	5	48.8	59.3	43.2	58.4	57.4	55.1	53.5	47.9	44.8	43.5	43.4	43.2	48.8	10.0	58.8
	6	48.6	57.5	43.7	56.7	56.0	54.5	53.1	48.5	45.5	44.2	44.0	43.8	48.6	10.0	58.6
Day	7	53.4	65.1	46.3	64.5	63.6	60.0	57.8	50.7	47.9	46.7	46.6	46.3	53.4	0.0	53.4
	8	61.9	63.6	60.5	63.5	63.4	63.1	62.8	62.3	61.8	60.8	60.6	60.5	61.9	0.0	61.9
	9	62.8	64.2	61.2	64.1	64.0	63.9	63.8	63.5	62.8	61.6	61.4	61.2	62.8	0.0	62.8
	10	65.1	66.5	63.3	66.5	66.4	66.3	66.2	65.7	65.0	63.8	63.5	63.3	65.1	0.0	65.1
	11	64.9	73.7	57.2	73.6	73.3	71.6	69.7	64.1	62.0	58.8	57.7	57.3	64.9	0.0	64.9
	12	58.4	62.5	53.9	62.3	62.0	61.4	61.0	59.6	57.9	54.7	54.3	54.1	58.4	0.0	58.4
	13	58.1	64.1	52.5	63.6	63.2	62.2	61.6	59.4	56.8	53.7	53.1	52.6	58.1	0.0	58.1
	14	59.9	66.9	52.5	66.4	65.8	64.5	63.6	60.9	58.3	54.2	53.4	52.7	59.9	0.0	59.9
	15	62.3	69.6	53.3	69.1	68.6	67.3	66.3	63.4	60.4	55.6	54.5	53.5	62.3	0.0	62.3
	16	62.8	69.8	54.0	69.3	68.8	67.6	66.9	63.9	61.1	56.3	55.3	54.2	62.8	0.0	62.8
	17	64.2	71.4	55.0	70.9	70.4	69.2	68.4	65.3	62.3	57.1	56.1	55.2	64.2	0.0	64.2
Night	18	64.8	72.5	55.0	71.9	71.3	69.8	69.0	65.9	62.9	57.6	56.5	55.4	64.8	0.0	64.8
	19	63.8	71.3	56.7	70.7	70.1	68.6	67.7	64.5	62.1	58.2	57.5	56.8	63.8	5.0	68.8
	20	54.5	62.9	48.2	62.2	61.4	59.6	58.3	55.1	52.5	49.1	48.8	48.3	54.5	5.0	59.5
	21	57.5	65.8	49.3	65.2	64.7	63.3	61.9	58.1	55.1	50.8	50.1	49.5	57.5	5.0	62.5
	22	51.5	62.5	45.5	61.3	60.5	58.1	56.6	49.6	47.8	46.0	45.7	45.6	51.5	10.0	61.5
	23	46.3	55.3	44.1	54.1	53.4	51.1	49.0	45.3	44.8	44.3	44.2	44.1	46.3	10.0	56.3

Timeframe	Hour	L_{eq}	L_{max}	L_{min}	L1%	L2%	L5%	L8%	L25%	L50%	L90%	L95%	L99%
Day	Min	53.4	62.5	46.3	62.3	62.0	60.0	57.8	50.7	47.9	46.7	46.6	46.3
	Max	65.1	73.7	63.3	73.6	73.3	71.6	69.7	65.7	65.0	63.8	63.5	63.3
Energy Average		62.3	Average:		66.7	66.3	65.2	64.4	61.7	59.7	56.7	56.1	55.5
Night	Min	43.0	46.2	40.8	45.7	45.3	44.7	44.3	43.1	42.3	41.3	41.1	40.9
	Max	64.8	72.5	56.7	71.9	71.3	69.8	69.0	65.9	62.9	58.2	57.5	56.8
Energy Average		57.2	Average:		57.7	57.0	55.3	53.9	50.3	48.4	46.4	46.1	45.8

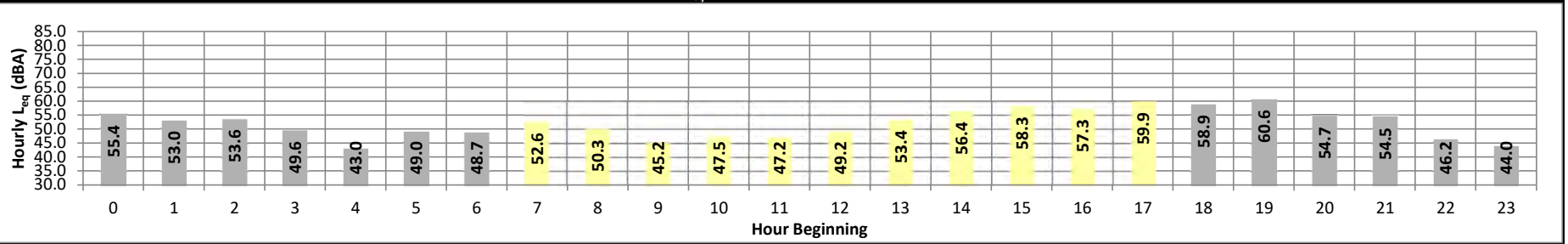
dBA CNEL	Leq (dBA) Daytime (7am-6pm)	Leq (dBA) Nighttime (6pm-7am)
61.8	**62.3**	**57.2**

24-Hour Noise Level Measurement Summary

Date: Thursday, August 14, 2025 *Location:* L7 - Located near residence at 12550 Tamar Dr. *Meter:* Piccolo II *JN:* 16694

Project: Mission Springs 306 *Source:* *Analyst:* B. Maddux

Hourly L_{eq} dBA Readings (unadjusted)



Timeframe	*Hour*	*L_{eq}*	*L_{max}*	*L_{min}*	*L1%*	*L2%*	*L5%*	*L8%*	*L25%*	*L50%*	*L90%*	*L95%*	*L99%*	*L_{eq}*	*Adj.*	*Adj. L_{eq}*
Night	0	55.4	66.6	50.2	65.8	64.6	61.7	58.1	53.6	52.3	50.9	50.6	50.4	55.4	10.0	65.4
	1	53.0	57.4	50.6	57.0	56.6	55.8	55.2	53.5	52.4	51.1	50.9	50.7	53.0	10.0	63.0
	2	53.6	56.7	51.7	56.4	56.2	55.6	55.2	54.2	53.2	52.2	52.0	51.8	53.6	10.0	63.6
	3	49.6	60.4	44.5	59.5	57.9	56.0	54.4	48.4	46.1	45.1	44.9	44.7	49.6	10.0	59.6
	4	43.0	52.2	38.7	52.0	51.6	48.9	46.6	41.8	40.6	39.3	39.0	38.8	43.0	10.0	53.0
	5	49.0	58.7	39.4	58.3	57.8	55.6	53.8	48.3	45.5	41.4	40.5	39.6	49.0	10.0	59.0
	6	48.7	58.2	42.1	57.7	57.2	55.2	53.5	47.6	45.2	42.8	42.5	42.2	48.7	10.0	58.7
Day	7	52.6	63.5	41.8	63.1	62.5	59.9	57.8	51.3	46.2	42.7	42.3	41.9	52.6	0.0	52.6
	8	50.3	63.2	39.4	62.1	60.7	57.6	55.3	47.0	42.5	40.1	39.9	39.6	50.3	0.0	50.3
	9	45.2	56.3	37.4	56.0	55.5	52.8	49.7	42.2	40.3	38.1	37.8	37.5	45.2	0.0	45.2
	10	47.5	58.8	36.9	58.2	57.6	54.3	52.1	46.2	41.4	37.8	37.5	37.0	47.5	0.0	47.5
	11	47.2	58.4	38.0	58.0	57.4	54.5	51.9	45.3	41.4	38.8	38.5	38.1	47.2	0.0	47.2
	12	49.2	60.8	39.9	60.3	59.7	56.5	53.7	47.0	43.4	40.8	40.4	40.0	49.2	0.0	49.2
	13	53.4	65.2	43.8	64.8	63.9	60.0	57.0	51.9	48.7	45.3	44.7	44.0	53.4	0.0	53.4
	14	56.4	66.3	46.7	65.5	65.0	62.9	61.0	56.4	53.1	48.3	47.6	46.9	56.4	0.0	56.4
	15	58.3	67.8	47.6	67.4	67.0	65.1	63.2	58.0	54.4	49.4	48.7	47.8	58.3	0.0	58.3
	16	57.3	66.1	47.5	65.5	64.8	63.1	61.9	58.0	54.3	49.5	48.7	47.8	57.3	0.0	57.3
	17	59.9	68.2	50.0	67.7	67.1	65.3	64.2	60.7	57.4	52.2	51.3	50.2	59.9	0.0	59.9
Night	18	58.9	67.1	49.2	66.5	65.8	64.2	63.1	59.8	56.5	51.1	50.4	49.5	58.9	0.0	58.9
	19	60.6	69.4	50.2	68.8	68.1	66.3	65.0	61.4	57.8	52.4	51.5	50.4	60.6	5.0	65.6
	20	54.7	64.6	45.3	63.9	63.1	60.9	59.3	54.8	51.2	46.8	46.2	45.5	54.7	5.0	59.7
	21	54.5	63.7	45.2	63.2	62.5	60.7	59.2	54.6	51.1	46.9	46.3	45.5	54.5	5.0	59.5
	22	46.2	56.1	40.2	55.7	55.0	52.5	50.4	45.2	42.8	40.9	40.6	40.3	46.2	10.0	56.2
	23	44.0	53.8	38.9	53.5	53.2	50.5	48.1	42.4	40.5	39.3	39.1	39.0	44.0	10.0	54.0

Timeframe	*Hour*	*L_{eq}*	*L_{max}*	*L_{min}*	*L1%*	*L2%*	*L5%*	*L8%*	*L25%*	*L50%*	*L90%*	*L95%*	*L99%*
Day	Min	45.2	56.3	36.9	56.0	55.5	52.8	49.7	42.2	40.3	37.8	37.5	37.0
	Max	59.9	68.2	50.0	67.7	67.1	65.3	64.2	60.7	57.4	52.2	51.3	50.2
Energy Average		54.9	Average:		62.6	61.9	59.3	57.1	51.3	47.6	43.9	43.4	42.8
Night	Min	43.0	52.2	38.7	52.0	51.6	48.9	46.6	41.8	40.5	39.3	39.0	38.8
	Max	60.6	69.4	51.7	68.8	68.1	66.3	65.0	61.4	57.8	52.4	52.0	51.8
Energy Average		54.4	Average:		59.9	59.2	57.2	55.5	51.2	48.9	46.2	45.7	45.2

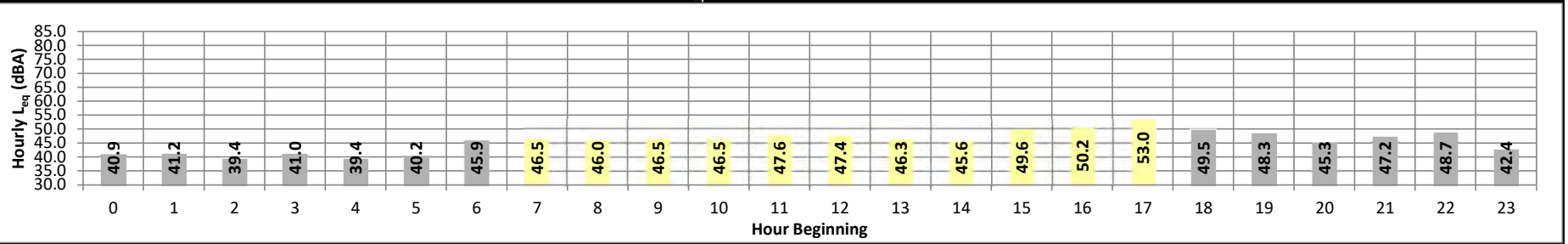
dBA CNEL	*Leq (dBA) Daytime (7am-6pm)*	*Leq (dBA) Nighttime (6pm-7am)*
59.4	**54.9**	**54.4**

24-Hour Noise Level Measurement Summary

Date: Tuesday, August 12, 2025 *Location:* L8 - Located near residence at 12780 Agua Cayendo Rd. *Meter:* Piccolo II *JN:* 16694

Project: Mission Springs 306 *Source:* *Analyst:* B. Maddux

Hourly L_{eq} dBA Readings (unadjusted)



Timeframe	Hour	L_{eq}	L_{max}	L_{min}	L1%	L2%	L5%	L8%	L25%	L50%	L90%	L95%	L99%	L_{eq}	Adj.	Adj. L_{eq}
Night	0	40.9	47.5	38.1	47.2	46.8	45.2	43.7	40.7	39.6	38.5	38.4	38.2	40.9	10.0	50.9
	1	41.2	49.7	37.6	49.4	49.0	47.0	44.8	40.2	38.9	38.0	37.8	37.7	41.2	10.0	51.2
	2	39.4	47.9	36.8	47.2	46.1	44.0	42.3	38.5	37.9	37.2	37.1	36.9	39.4	10.0	49.4
	3	41.0	48.6	36.7	47.6	46.7	45.9	45.0	41.3	39.4	37.3	37.1	36.8	41.0	10.0	51.0
	4	39.4	45.3	36.8	45.0	44.7	43.5	42.4	39.3	38.2	37.2	37.0	36.9	39.4	10.0	49.4
	5	40.2	44.5	38.4	44.1	43.5	42.3	41.7	40.5	39.8	38.8	38.7	38.5	40.2	10.0	50.2
	6	45.9	54.8	40.6	54.2	53.6	52.0	50.3	45.5	42.9	41.3	41.0	40.7	45.9	10.0	55.9
Day	7	46.5	55.7	40.8	55.2	54.7	52.7	50.4	45.8	44.1	41.5	41.3	41.0	46.5	0.0	46.5
	8	46.0	56.5	39.5	55.5	54.8	52.7	51.2	44.1	42.0	40.2	39.9	39.6	46.0	0.0	46.0
	9	46.5	54.6	42.8	54.0	53.1	50.4	48.3	46.5	45.6	43.9	43.5	43.0	46.5	0.0	46.5
	10	46.5	55.3	41.7	54.7	54.0	52.4	51.0	45.8	44.1	42.5	42.2	41.9	46.5	0.0	46.5
	11	47.6	60.0	38.1	59.6	58.9	55.3	51.7	43.2	40.8	38.8	38.5	38.2	47.6	0.0	47.6
	12	47.4	58.3	39.4	57.9	57.6	55.0	50.5	45.6	43.2	40.0	39.8	39.5	47.4	0.0	47.4
	13	46.3	55.3	40.6	54.7	54.0	52.1	49.9	46.4	43.4	41.3	41.0	40.7	46.3	0.0	46.3
	14	45.6	54.3	39.7	53.9	53.4	51.5	49.6	45.0	43.2	40.4	40.1	39.8	45.6	0.0	45.6
	15	49.6	58.9	42.0	58.4	57.7	55.8	54.0	49.6	46.5	43.2	42.7	42.2	49.6	0.0	49.6
	16	50.2	60.4	43.1	59.6	58.8	55.8	54.2	49.9	47.2	44.1	43.7	43.3	50.2	0.0	50.2
	17	53.0	62.4	45.1	61.7	61.0	58.9	57.4	53.0	50.0	46.4	45.9	45.3	53.0	0.0	53.0
Night	18	49.5	58.9	43.4	58.5	57.9	55.5	53.5	48.9	46.7	44.3	43.9	43.5	49.5	0.0	49.5
	19	48.3	56.1	43.6	55.2	54.7	53.2	52.2	48.8	46.1	44.3	44.0	43.7	48.3	5.0	53.3
	20	45.3	53.5	40.5	52.9	52.4	50.4	48.5	45.2	43.6	41.4	41.1	40.6	45.3	5.0	50.3
	21	47.2	57.6	40.8	57.0	56.3	53.8	51.8	45.6	43.5	41.5	41.2	40.8	47.2	5.0	52.2
	22	48.7	61.5	39.9	61.1	60.4	57.0	53.1	42.4	40.8	40.2	40.1	40.0	48.7	10.0	58.7
	23	42.4	52.0	39.8	51.5	50.3	46.8	44.0	41.5	40.7	40.0	39.9	39.8	42.4	10.0	52.4

Timeframe	Hour	L_{eq}	L_{max}	L_{min}	L1%	L2%	L5%	L8%	L25%	L50%	L90%	L95%	L99%
Day	Min	45.6	54.3	38.1	53.9	53.1	50.4	48.3	43.2	40.8	38.8	38.5	38.2
	Max	53.0	62.4	45.1	61.7	61.0	58.9	57.4	53.0	50.0	46.4	45.9	45.3
Energy Average		48.4	Average:		56.9	56.2	53.9	51.6	46.8	44.6	42.0	41.7	41.3
Night	Min	39.4	44.5	36.7	44.1	43.5	42.3	41.7	38.5	37.9	37.2	37.0	36.8
	Max	49.5	61.5	43.6	61.1	60.4	57.0	53.5	48.9	46.7	44.3	44.0	43.7
Energy Average		45.3	Average:		51.6	51.0	49.0	47.2	43.0	41.4	40.0	39.8	39.5

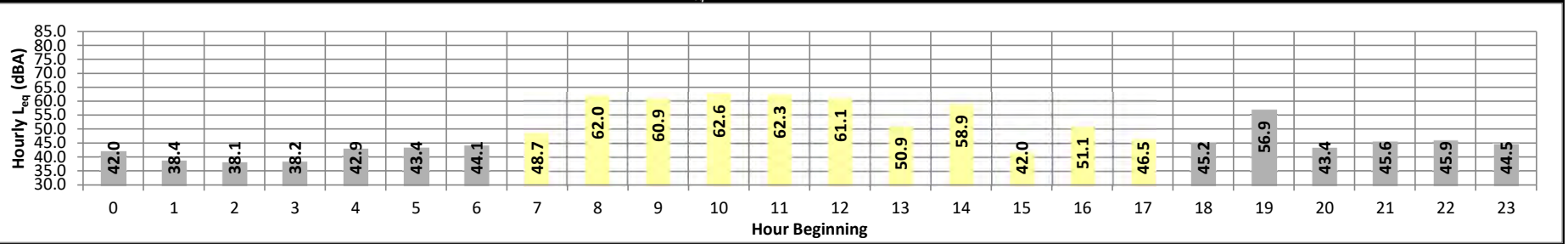
dBA CNEL	Leq (dBA) Daytime (7am-6pm)	Leq (dBA) Nighttime (6pm-7am)
51.4	**48.4**	**45.3**

24-Hour Noise Level Measurement Summary

Date: Tuesday, August 12, 2025 *Location:* L9 - Located near residence at 67600 Monterey Rd. *Meter:* Piccolo II *JN:* 16694

Project: Mission Springs 306 *Source:* *Analyst:* B. Maddux

Hourly L_{eq} dBA Readings (unadjusted)



Timeframe	Hour	L_{eq}	L_{max}	L_{min}	L1%	L2%	L5%	L8%	L25%	L50%	L90%	L95%	L99%	L_{eq}	Adj.	Adj. L_{eq}
Night	0	42.0	47.7	38.1	47.4	47.1	45.5	44.2	42.2	41.6	38.8	38.6	38.2	42.0	10.0	52.0
	1	38.4	40.9	37.1	40.5	40.2	39.7	39.5	38.8	38.2	37.5	37.4	37.2	38.4	10.0	48.4
	2	38.1	41.3	36.5	40.9	40.5	39.8	39.5	38.5	37.8	36.9	36.8	36.6	38.1	10.0	48.1
	3	38.2	43.6	36.0	43.3	43.0	41.8	40.7	38.1	37.2	36.3	36.2	36.1	38.2	10.0	48.2
	4	42.9	44.6	41.5	44.4	44.3	43.9	43.7	43.2	42.8	42.1	41.9	41.6	42.9	10.0	52.9
	5	43.4	52.1	38.2	51.5	51.0	48.7	46.8	43.1	41.5	39.3	38.9	38.4	43.4	10.0	53.4
	6	44.1	50.0	39.6	49.4	48.7	47.8	47.2	45.2	42.7	40.7	40.2	39.8	44.1	10.0	54.1
Day	7	48.7	60.9	41.6	60.2	59.2	55.4	50.5	46.2	44.7	42.6	42.2	41.8	48.7	0.0	48.7
	8	62.0	63.3	59.7	63.3	63.2	63.2	63.1	62.6	62.0	60.4	60.0	59.8	62.0	0.0	62.0
	9	60.9	62.7	58.4	62.6	62.5	62.3	62.1	61.7	61.0	59.0	58.8	58.5	60.9	0.0	60.9
	10	62.6	64.2	60.2	64.2	64.1	64.0	63.9	63.3	62.7	60.7	60.5	60.3	62.6	0.0	62.6
	11	62.3	64.3	59.1	64.2	64.1	64.0	63.8	63.2	62.3	59.9	59.5	59.2	62.3	0.0	62.3
	12	61.1	65.4	57.6	65.1	64.8	63.5	62.9	61.7	60.8	58.7	58.2	57.8	61.1	0.0	61.1
	13	50.9	63.4	36.2	63.0	62.2	59.1	56.3	44.7	40.3	37.3	36.6	36.3	50.9	0.0	50.9
	14	58.9	63.8	55.1	63.5	63.0	61.3	60.5	59.6	58.6	56.0	55.6	55.3	58.9	0.0	58.9
	15	42.0	49.4	36.5	49.0	48.6	47.2	45.9	42.4	40.0	37.5	37.1	36.6	42.0	0.0	42.0
	16	51.1	57.7	44.9	57.3	56.7	55.2	54.2	51.9	50.1	46.7	45.6	45.1	51.1	0.0	51.1
	17	46.5	55.7	40.0	55.4	54.5	52.1	50.6	45.9	44.2	41.3	40.8	40.1	46.5	0.0	46.5
Night	18	45.2	50.2	40.2	49.9	49.6	48.8	48.2	46.1	44.3	41.3	40.8	40.4	45.2	0.0	45.2
	19	56.9	59.4	53.0	59.3	59.1	58.8	58.6	57.9	56.8	53.9	53.5	53.1	56.9	5.0	61.9
	20	43.4	46.9	41.1	46.6	46.3	45.6	45.2	44.0	43.0	41.7	41.5	41.2	43.4	5.0	48.4
	21	45.6	55.9	40.3	55.4	54.6	51.6	49.1	44.2	43.0	41.0	40.7	40.5	45.6	5.0	50.6
	22	45.9	49.8	43.7	49.3	48.8	48.0	47.6	46.5	45.5	44.4	44.1	43.8	45.9	10.0	55.9
	23	44.5	47.8	42.4	47.4	47.0	46.5	46.1	45.2	44.2	42.9	42.7	42.5	44.5	10.0	54.5

Timeframe	Hour	L_{eq}	L_{max}	L_{min}	L1%	L2%	L5%	L8%	L25%	L50%	L90%	L95%	L99%
Day	Min	42.0	49.4	36.2	49.0	48.6	47.2	45.9	42.4	40.0	37.3	36.6	36.3
	Max	62.6	65.4	60.2	65.1	64.8	64.0	63.9	63.3	62.7	60.7	60.5	60.3
Energy Average		59.0	Average:		60.7	60.3	58.8	57.6	54.8	53.3	50.9	50.5	50.1
Night	Min	38.1	40.9	36.0	40.5	40.2	39.7	39.5	38.1	37.2	36.3	36.2	36.1
	Max	56.9	59.4	53.0	59.3	59.1	58.8	58.6	57.9	56.8	53.9	53.5	53.1
Energy Average		47.6	Average:		48.1	47.7	46.6	45.9	44.1	43.0	41.3	41.0	40.7

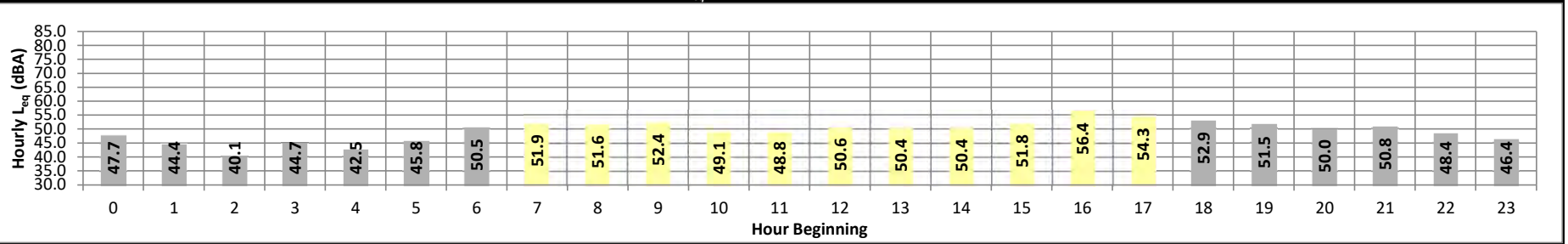
dBA CNEL	Leq (dBA) Daytime (7am-6pm)	Leq (dBA) Nighttime (6pm-7am)
57.1	**59.0**	**47.6**

24-Hour Noise Level Measurement Summary

Date: Tuesday, August 12, 2025 *Location:* L10 - Located near residence at 67600 Monterey Rd. *Meter:* Piccolo II *JN:* 16694

Project: Mission Springs 306 *Source:* *Analyst:* B. Maddux

Hourly L_{eq} dBA Readings (unadjusted)



Timeframe	Hour	L_{eq}	L_{max}	L_{min}	L1%	L2%	L5%	L8%	L25%	L50%	L90%	L95%	L99%	L_{eq}	Adj.	Adj. L_{eq}
Night	0	47.7	50.9	46.7	50.5	50.0	49.2	48.7	47.9	47.5	47.0	46.9	46.8	47.7	10.0	57.7
	1	44.4	54.4	39.6	54.0	53.4	51.0	48.7	42.7	40.9	40.0	39.9	39.7	44.4	10.0	54.4
	2	40.1	46.6	38.0	46.1	45.3	43.2	42.1	39.9	39.2	38.5	38.3	38.1	40.1	10.0	50.1
	3	44.7	57.5	36.8	56.7	55.8	52.6	49.0	40.7	38.4	37.1	37.0	36.9	44.7	10.0	54.7
	4	42.5	51.0	37.8	50.6	50.0	48.4	46.7	41.9	39.6	38.3	38.1	37.9	42.5	10.0	52.5
	5	45.8	56.0	39.5	55.6	55.0	52.7	50.2	44.1	41.9	40.1	39.9	39.6	45.8	10.0	55.8
	6	50.5	62.0	41.9	61.3	60.6	57.9	54.4	48.7	45.3	42.6	42.4	42.1	50.5	10.0	60.5
Day	7	51.9	61.9	44.4	61.5	60.9	58.7	56.4	50.9	48.2	45.4	45.0	44.6	51.9	0.0	51.9
	8	51.6	61.9	45.7	61.5	60.8	58.0	55.6	50.5	48.2	46.3	46.1	45.8	51.6	0.0	51.6
	9	52.4	63.0	41.8	62.1	61.4	59.5	58.2	51.6	46.9	42.9	42.5	42.0	52.4	0.0	52.4
	10	49.1	60.1	44.2	59.3	58.4	54.8	52.1	47.7	45.9	44.6	44.4	44.2	49.1	0.0	49.1
	11	48.8	57.1	45.4	56.7	56.1	53.8	51.9	48.3	46.9	45.8	45.7	45.5	48.8	0.0	48.8
	12	50.6	59.9	46.9	59.4	58.4	56.0	53.8	49.6	48.4	47.4	47.3	47.0	50.6	0.0	50.6
	13	50.4	56.9	47.9	56.6	56.0	54.3	53.1	50.3	49.2	48.4	48.2	48.0	50.4	0.0	50.4
	14	50.4	59.8	45.7	59.5	58.8	56.5	54.4	49.2	47.6	46.2	45.9	45.8	50.4	0.0	50.4
	15	51.8	59.2	48.4	58.9	58.4	56.8	55.2	51.6	50.3	49.0	48.8	48.5	51.8	0.0	51.8
	16	56.4	68.0	47.9	67.8	67.2	63.8	60.4	53.6	51.2	48.5	48.3	48.0	56.4	0.0	56.4
	17	54.3	64.0	47.7	63.4	62.7	60.3	58.4	54.0	51.5	48.6	48.2	47.8	54.3	0.0	54.3
Night	18	52.9	61.2	47.6	60.7	60.2	58.4	56.9	53.1	50.7	48.3	48.0	47.7	52.9	0.0	52.9
	19	51.5	59.8	47.3	59.4	58.8	56.5	54.7	51.3	49.7	48.0	47.7	47.4	51.5	5.0	56.5
	20	50.0	58.0	45.7	57.7	57.2	55.7	54.2	49.5	47.7	46.2	46.0	45.8	50.0	5.0	55.0
	21	50.8	65.1	43.1	63.6	61.5	56.0	52.7	48.1	45.6	43.7	43.5	43.2	50.8	5.0	55.8
	22	48.4	54.3	46.5	53.9	53.4	51.9	50.8	48.4	47.5	46.8	46.7	46.6	48.4	10.0	58.4
	23	46.4	53.4	43.9	53.0	52.4	50.8	49.4	46.1	45.1	44.3	44.2	44.0	46.4	10.0	56.4

Timeframe	Hour	L_{eq}	L_{max}	L_{min}	L1%	L2%	L5%	L8%	L25%	L50%	L90%	L95%	L99%
Day	Min	48.8	56.9	41.8	56.6	56.0	53.8	51.9	47.7	45.9	42.9	42.5	42.0
	Max	56.4	68.0	48.4	67.8	67.2	63.8	60.4	54.0	51.5	49.0	48.8	48.5
Energy Average		52.2	Average:		60.6	59.9	57.5	55.4	50.7	48.6	46.6	46.4	46.1
Night	Min	40.1	46.6	36.8	46.1	45.3	43.2	42.1	39.9	38.4	37.1	37.0	36.9
	Max	52.9	65.1	47.6	63.6	61.5	58.4	56.9	53.1	50.7	48.3	48.0	47.7
Energy Average		48.7	Average:		55.6	54.9	52.6	50.7	46.3	44.5	43.2	43.0	42.7

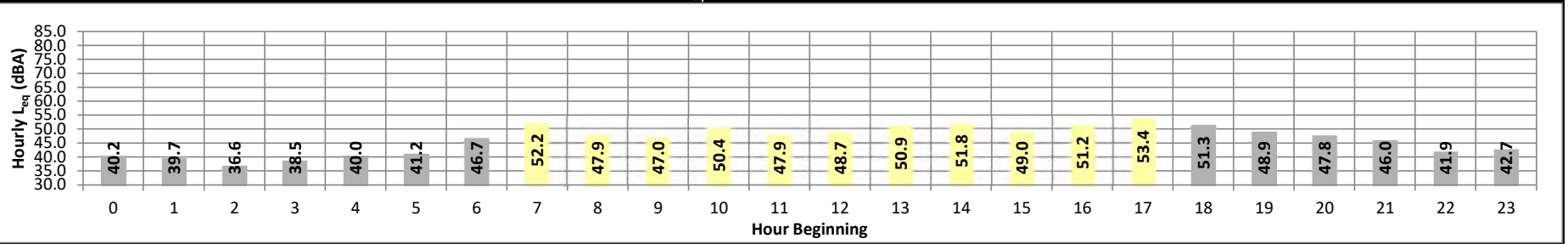
dBA CNEL	Leq (dBA) Daytime (7am-6pm)	Leq (dBA) Nighttime (6pm-7am)
54.8	**52.2**	**48.7**

24-Hour Noise Level Measurement Summary

Date: Tuesday, August 12, 2025 *Location:* L11 - Located near residence at 12550 Hidalgo St. *Meter:* Piccolo II *JN:* 16694

Project: Mission Springs 306 *Source:* *Analyst:* B. Maddux

Hourly L_{eq} dBA Readings (unadjusted)



Timeframe	Hour	L_{eq}	L_{max}	L_{min}	L11%	L2%	L5%	L8%	L25%	L50%	L90%	L95%	L99%	L_{eq}	Adj.	Adj. L_{eq}
Night	0	40.2	48.2	36.5	47.7	47.0	45.6	44.2	39.8	38.0	36.9	36.8	36.6	40.2	10.0	50.2
	1	39.7	48.1	36.3	47.4	46.3	44.1	42.8	39.6	37.8	36.8	36.6	36.4	39.7	10.0	49.7
	2	36.6	42.5	34.7	42.1	41.5	39.4	38.5	36.5	35.8	35.1	35.0	34.8	36.6	10.0	46.6
	3	38.5	47.1	34.1	46.6	45.8	43.8	42.5	38.4	36.2	34.6	34.4	34.2	38.5	10.0	48.5
	4	40.0	50.9	34.4	50.6	50.0	46.7	43.6	37.6	36.1	34.9	34.7	34.5	40.0	10.0	50.0
	5	41.2	51.5	36.4	50.9	50.0	47.3	44.9	39.7	38.2	37.0	36.7	36.5	41.2	10.0	51.2
	6	46.7	56.6	39.9	55.9	55.2	53.1	51.2	46.4	42.7	40.5	40.2	40.0	46.7	10.0	56.7
Day	7	52.2	64.7	40.1	64.2	63.3	60.1	56.8	48.2	43.9	40.9	40.6	40.3	52.2	0.0	52.2
	8	47.9	59.3	41.3	58.7	57.8	54.4	51.4	45.9	44.2	42.2	41.8	41.4	47.9	0.0	47.9
	9	47.0	56.4	40.6	56.1	55.5	52.9	50.9	46.6	44.2	41.5	41.1	40.7	47.0	0.0	47.0
	10	50.4	58.1	44.7	57.7	57.2	55.2	53.7	50.8	48.9	45.9	45.5	44.9	50.4	0.0	50.4
	11	47.9	58.3	41.7	57.4	56.5	54.4	52.3	46.8	44.4	42.4	42.0	41.7	47.9	0.0	47.9
	12	48.7	61.4	37.3	60.8	60.0	56.6	52.8	45.2	41.2	37.9	37.6	37.4	48.7	0.0	48.7
	13	50.9	63.8	39.0	63.2	62.3	58.9	54.4	46.5	43.2	39.9	39.5	39.1	50.9	0.0	50.9
	14	51.8	64.9	38.8	64.5	63.7	59.9	56.2	45.2	42.4	39.7	39.2	38.9	51.8	0.0	51.8
	15	49.0	58.5	41.9	58.0	57.3	54.5	52.4	49.1	46.4	43.1	42.5	42.0	49.0	0.0	49.0
	16	51.2	61.3	43.3	60.8	59.9	57.0	54.4	50.9	48.6	44.8	44.0	43.4	51.2	0.0	51.2
	17	53.4	64.8	45.7	63.4	61.9	58.9	56.8	53.1	50.9	47.1	46.5	45.8	53.4	0.0	53.4
Night	18	51.3	60.2	44.3	59.7	59.1	56.7	54.9	51.6	49.2	45.5	44.9	44.4	51.3	0.0	51.3
	19	48.9	57.1	42.8	56.8	56.3	54.5	52.6	49.0	46.9	43.9	43.4	42.9	48.9	5.0	53.9
	20	47.8	58.9	39.2	58.5	58.0	55.5	52.7	44.7	42.0	39.8	39.6	39.3	47.8	5.0	52.8
	21	46.0	57.7	37.9	57.3	56.6	53.7	50.7	42.6	39.8	38.4	38.2	38.0	46.0	5.0	51.0
	22	41.9	51.1	38.0	50.6	49.6	46.9	45.6	41.1	39.4	38.4	38.2	38.1	41.9	10.0	51.9
	23	42.7	51.5	38.2	50.8	50.1	48.1	46.5	42.5	40.3	38.7	38.5	38.3	42.7	10.0	52.7

Timeframe	Hour	L_{eq}	L_{max}	L_{min}	L11%	L2%	L5%	L8%	L25%	L50%	L90%	L95%	L99%
Day	Min	47.0	56.4	37.3	56.1	55.5	52.9	50.9	45.2	41.2	37.9	37.6	37.4
	Max	53.4	64.9	45.7	64.5	63.7	60.1	56.8	53.1	50.9	47.1	46.5	45.8
Energy Average		50.5	Average:		60.4	59.6	56.6	53.8	48.0	45.3	42.3	41.9	41.4
Night	Min	36.6	42.5	34.1	42.1	41.5	39.4	38.5	36.5	35.8	34.6	34.4	34.2
	Max	51.3	60.2	44.3	59.7	59.1	56.7	54.9	51.6	49.2	45.5	44.9	44.4
Energy Average		45.4	Average:		51.9	51.2	48.9	47.0	42.3	40.2	38.5	38.3	38.0

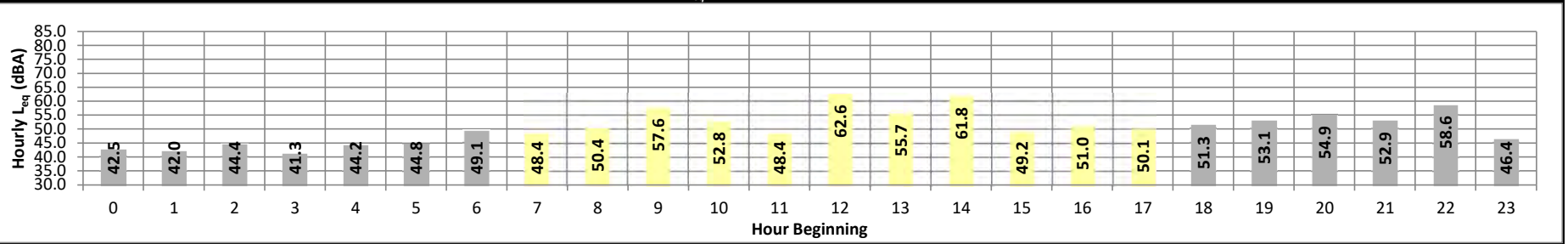
dBA CNEL	Leq (dBA) Daytime (7am-6pm)	Leq (dBA) Nighttime (6pm-7am)
51.3	**50.5**	**45.4**

24-Hour Noise Level Measurement Summary

Date: Tuesday, August 12, 2025 *Location:* L12 - Located near residence at 13666 Hermano Way. *Meter:* Piccolo II *JN:* 16694

Project: Mission Springs 306 *Source:* *Analyst:* B. Maddux

Hourly L_{eq} dBA Readings (unadjusted)



Timeframe	Hour	L_{eq}	L_{max}	L_{min}	L11%	L2%	L5%	L8%	L25%	L50%	L90%	L95%	L99%	L_{eq}	Adj.	Adj. L_{eq}
Night	0	42.5	47.2	41.1	46.4	46.1	45.3	44.7	42.6	41.6	41.2	41.1	41.0	42.5	10.0	52.5
	1	42.0	43.9	41.4	43.6	43.4	43.0	42.7	42.1	41.8	41.4	41.4	41.3	42.0	10.0	52.0
	2	44.4	51.3	40.8	50.8	50.3	49.1	48.0	45.0	42.6	40.9	40.8	40.8	44.4	10.0	54.4
	3	41.3	43.1	40.6	42.8	42.6	42.3	42.0	41.3	41.0	40.7	40.6	40.6	41.3	10.0	51.3
	4	44.2	52.3	41.1	52.1	51.8	49.8	47.8	43.3	41.9	41.2	41.1	41.0	44.2	10.0	54.2
	5	44.8	52.1	41.9	51.8	51.3	49.5	47.9	44.5	43.2	42.2	42.1	41.9	44.8	10.0	54.8
	6	49.1	59.7	43.2	59.1	58.2	55.2	53.0	48.3	45.5	43.7	43.5	43.2	49.1	10.0	59.1
Day	7	48.4	59.2	42.8	58.9	58.3	55.5	52.5	45.6	44.3	43.2	43.0	42.8	48.4	0.0	48.4
	8	50.4	62.0	44.4	61.5	60.7	56.9	53.5	47.7	46.4	44.9	44.6	44.4	50.4	0.0	50.4
	9	57.6	68.1	49.2	67.7	66.7	62.9	60.2	57.0	55.4	52.2	50.8	49.4	57.6	0.0	57.6
	10	52.8	59.6	49.9	59.1	58.5	56.5	55.0	52.6	51.8	50.7	50.3	50.0	52.8	0.0	52.8
	11	48.4	54.8	45.3	54.3	53.8	52.3	51.0	48.6	47.3	45.9	45.7	45.4	48.4	0.0	48.4
	12	62.6	64.9	61.2	64.8	64.6	64.2	63.9	63.2	62.3	61.5	61.4	61.2	62.6	0.0	62.6
	13	55.7	61.7	50.5	61.5	61.2	59.5	58.4	56.6	54.5	51.9	50.8	50.6	55.7	0.0	55.7
	14	61.8	65.4	57.5	65.1	64.9	64.3	63.8	63.0	61.9	57.9	57.8	57.6	61.8	0.0	61.8
	15	49.2	60.3	43.0	59.7	59.0	56.0	53.5	46.9	44.8	43.3	43.2	43.0	49.2	0.0	49.2
	16	51.0	61.8	45.0	61.3	60.5	57.4	54.8	49.4	47.7	45.9	45.5	45.1	51.0	0.0	51.0
	17	50.1	59.5	44.5	58.9	58.4	56.1	54.5	49.4	47.1	45.1	44.8	44.5	50.1	0.0	50.1
Night	18	51.3	61.1	45.3	60.6	59.9	57.8	55.6	50.4	48.1	45.9	45.7	45.4	51.3	0.0	51.3
	19	53.1	57.8	50.9	57.4	57.0	55.7	55.1	53.1	52.5	51.5	51.2	51.0	53.1	5.0	58.1
	20	54.9	66.1	45.7	65.7	65.1	62.6	60.2	52.5	48.5	46.2	46.0	45.8	54.9	5.0	59.9
	21	52.9	64.8	43.5	64.0	63.1	60.1	57.7	50.3	47.1	44.0	43.8	43.6	52.9	5.0	57.9
	22	58.6	68.8	43.4	68.5	68.1	66.5	65.0	57.2	48.3	43.7	43.6	43.4	58.6	10.0	68.6
	23	46.4	55.3	43.2	55.0	54.6	52.3	50.0	45.0	43.9	43.4	43.4	43.3	46.4	10.0	56.4

Timeframe	Hour	L_{eq}	L_{max}	L_{min}	L11%	L2%	L5%	L8%	L25%	L50%	L90%	L95%	L99%
Day	Min	48.4	54.8	42.8	54.3	53.8	52.3	51.0	45.6	44.3	43.2	43.0	42.8
	Max	62.6	68.1	61.2	67.7	66.7	64.3	63.9	63.2	62.3	61.5	61.4	61.2
Energy Average		56.6	Average:		61.2	60.6	58.3	56.5	52.7	51.3	49.3	48.9	48.6
Night	Min	41.3	43.1	40.6	42.8	42.6	42.3	42.0	41.3	41.0	40.7	40.6	40.6
	Max	58.6	68.8	50.9	68.5	68.1	66.5	65.0	57.2	52.5	51.5	51.2	51.0
Energy Average		51.5	Average:		55.2	54.7	53.0	51.5	47.4	45.1	43.5	43.4	43.2

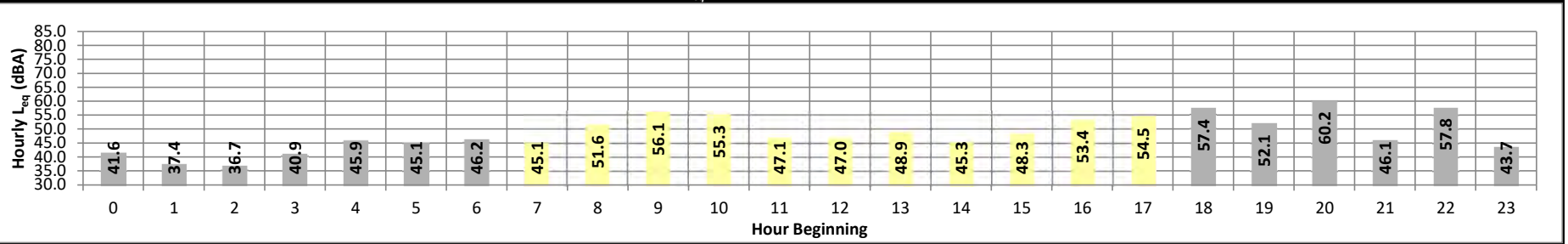
dBA CNEL	Leq (dBA) Daytime (7am-6pm)	Leq (dBA) Nighttime (6pm-7am)
58.6	**56.6**	**51.5**

24-Hour Noise Level Measurement Summary

Date: Tuesday, August 12, 2025 *Location:* L13 - Located near residence at 68272 C. Blanco. *Meter:* Piccolo II *JN:* 16694

Project: Mission Springs 306 *Source:* *Analyst:* B. Maddux

Hourly L_{eq} dBA Readings (unadjusted)



Timeframe	*Hour*	*L_{eq}*	*L_{max}*	*L_{min}*	*L1%*	*L2%*	*L5%*	*L8%*	*L25%*	*L50%*	*L90%*	*L95%*	*L99%*	*L_{eq}*	*Adj.*	*Adj. L_{eq}*
Night	0	41.6	49.2	38.3	48.5	47.9	46.2	44.6	41.6	40.1	38.9	38.8	38.5	41.6	10.0	51.6
	1	37.4	40.7	35.8	40.3	39.9	39.3	38.8	37.7	37.1	36.2	36.1	35.9	37.4	10.0	47.4
	2	36.7	43.5	34.3	42.7	42.1	40.6	39.6	37.0	35.3	34.6	34.5	34.4	36.7	10.0	46.7
	3	40.9	47.5	37.1	46.7	46.2	45.2	44.5	41.7	39.1	37.6	37.5	37.2	40.9	10.0	50.9
	4	45.9	55.3	35.4	54.6	53.8	52.0	50.7	46.4	42.4	36.5	36.0	35.6	45.9	10.0	55.9
	5	45.1	56.8	36.2	56.4	55.6	52.4	49.3	42.5	38.8	36.8	36.6	36.3	45.1	10.0	55.1
	6	46.2	55.1	40.3	54.6	53.9	51.9	50.2	46.2	43.8	41.4	40.8	40.4	46.2	10.0	56.2
Day	7	45.1	54.8	39.6	54.3	53.8	51.3	49.0	44.3	42.3	40.4	40.1	39.7	45.1	0.0	45.1
	8	51.6	59.7	44.3	59.2	58.3	56.4	55.2	52.1	49.9	45.3	45.0	44.5	51.6	0.0	51.6
	9	56.1	62.3	46.7	61.9	61.5	60.5	59.9	57.0	54.7	50.3	49.2	47.3	56.1	0.0	56.1
	10	55.3	64.7	44.1	64.2	63.7	61.7	60.0	55.3	51.9	46.9	45.5	44.2	55.3	0.0	55.3
	11	47.1	51.7	45.1	51.1	50.5	49.6	49.0	47.6	46.6	45.5	45.3	45.2	47.1	0.0	47.1
	12	47.0	54.6	43.5	54.1	53.5	51.4	50.0	47.1	45.6	44.4	44.2	43.6	47.0	0.0	47.0
	13	48.9	56.1	45.4	55.5	54.9	53.0	51.5	48.7	47.8	46.0	45.8	45.4	48.9	0.0	48.9
	14	45.3	54.1	40.4	53.6	52.9	51.2	49.4	45.0	42.5	40.8	40.6	40.5	45.3	0.0	45.3
	15	48.3	56.9	40.2	56.3	55.7	54.1	52.6	48.8	46.1	41.5	41.0	40.3	48.3	0.0	48.3
	16	53.4	65.2	42.7	64.3	62.9	60.9	58.4	51.9	48.4	44.3	43.6	42.9	53.4	0.0	53.4
	17	54.5	64.9	45.4	64.1	63.0	60.5	58.9	54.8	50.8	46.7	46.2	45.6	54.5	0.0	54.5
Night	18	57.4	70.3	45.1	69.4	68.6	65.2	61.7	52.3	49.5	46.3	45.8	45.2	57.4	0.0	57.4
	19	52.1	63.3	43.7	62.2	61.0	59.2	57.1	52.1	46.3	44.3	44.0	43.8	52.1	5.0	57.1
	20	60.2	74.5	39.2	73.7	72.3	68.3	63.6	49.8	43.3	40.3	39.9	39.4	60.2	5.0	65.2
	21	46.1	53.1	43.3	52.5	51.9	50.3	49.2	46.1	44.6	43.7	43.6	43.4	46.1	5.0	51.1
	22	57.8	71.5	42.8	70.5	69.8	67.4	61.9	47.5	44.5	43.7	43.5	43.0	57.8	10.0	67.8
	23	43.7	47.7	42.1	47.2	46.9	46.0	45.4	43.9	43.1	42.5	42.4	42.2	43.7	10.0	53.7

Timeframe	*Hour*	*L_{eq}*	*L_{max}*	*L_{min}*	*L1%*	*L2%*	*L5%*	*L8%*	*L25%*	*L50%*	*L90%*	*L95%*	*L99%*
Day	Min	45.1	51.7	39.6	51.1	50.5	49.6	49.0	44.3	42.3	40.4	40.1	39.7
	Max	56.1	65.2	46.7	64.3	63.7	61.7	60.0	57.0	54.7	50.3	49.2	47.3
Energy Average		51.9	Average:		58.1	57.3	55.5	54.0	50.2	47.9	44.7	44.2	43.6
Night	Min	36.7	40.7	34.3	40.3	39.9	39.3	38.8	37.0	35.3	34.6	34.5	34.4
	Max	60.2	74.5	45.1	73.7	72.3	68.3	63.6	52.3	49.5	46.3	45.8	45.2
Energy Average		53.0	Average:		55.3	54.6	52.6	50.5	45.0	42.1	40.2	40.0	39.6

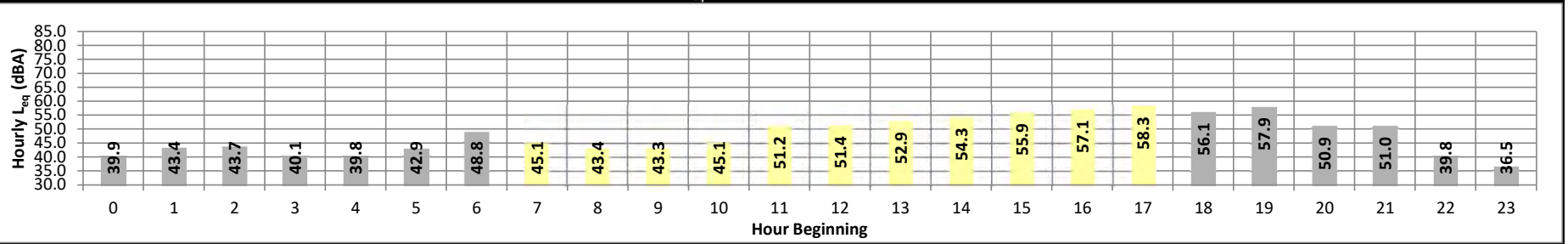
dBA CNEL	*Leq (dBA) Daytime (7am-6pm)*	*Leq (dBA) Nighttime (6pm-7am)*
57.7	**51.9**	**53.0**

24-Hour Noise Level Measurement Summary

Date: Thursday, August 14, 2025 *Location:* L14 - Located near residence at 12100 Highland Ave. *Meter:* Piccolo II *JN:* 16694

Project: Mission Springs 306 *Source:* *Analyst:* B. Maddux

Hourly L_{eq} dBA Readings (unadjusted)



Timeframe	Hour	L_{eq}	L_{max}	L_{min}	L1%	L2%	L5%	L8%	L25%	L50%	L90%	L95%	L99%	L_{eq}	Adj.	Adj. L_{eq}
Night	0	39.9	45.1	36.4	44.8	44.5	43.5	42.9	40.5	38.8	36.9	36.7	36.5	39.9	10.0	49.9
	1	43.4	52.1	37.6	51.8	51.2	48.9	47.5	43.4	41.1	38.5	38.1	37.7	43.4	10.0	53.4
	2	43.7	50.4	38.0	50.1	49.8	48.4	47.5	44.7	41.9	38.9	38.5	38.1	43.7	10.0	53.7
	3	40.1	46.4	35.6	46.0	45.6	44.3	43.4	40.8	38.9	36.5	36.1	35.7	40.1	10.0	50.1
	4	39.8	49.3	35.5	49.0	48.6	46.2	43.6	37.8	37.0	35.9	35.8	35.6	39.8	10.0	49.8
	5	42.9	49.9	39.1	49.3	48.6	47.4	46.3	43.6	41.1	39.4	39.3	39.1	42.9	10.0	52.9
	6	48.8	58.9	37.5	58.5	57.9	55.7	53.8	48.7	43.7	38.5	38.0	37.7	48.8	10.0	58.8
Day	7	45.1	57.2	38.5	55.0	53.8	51.2	49.3	44.6	40.7	38.9	38.8	38.6	45.1	0.0	45.1
	8	43.4	54.0	35.8	53.2	52.4	50.1	48.1	42.8	38.5	36.4	36.2	35.9	43.4	0.0	43.4
	9	43.3	54.0	35.0	53.3	52.4	49.9	48.2	42.1	38.6	36.3	35.8	35.1	43.3	0.0	43.3
	10	45.1	56.9	34.8	56.4	55.6	52.4	49.8	43.2	38.5	35.8	35.4	35.0	45.1	0.0	45.1
	11	51.2	62.6	39.9	62.0	61.3	58.5	56.2	49.5	46.0	41.3	40.7	40.0	51.2	0.0	51.2
	12	51.4	58.7	43.7	58.2	57.7	55.7	54.4	51.9	50.2	47.2	45.7	44.0	51.4	0.0	51.4
	13	52.9	61.9	45.0	61.2	60.5	58.4	56.8	53.4	50.6	46.8	46.1	45.2	52.9	0.0	52.9
	14	54.3	61.4	46.3	61.0	60.5	59.1	58.2	55.5	52.5	47.9	47.2	46.4	54.3	0.0	54.3
	15	55.9	63.2	48.0	62.8	62.3	61.0	60.1	56.9	54.0	49.6	48.8	48.1	55.9	0.0	55.9
	16	57.1	65.0	49.1	64.6	64.1	62.6	61.4	57.6	54.9	50.8	50.0	49.3	57.1	0.0	57.1
	17	58.3	66.8	50.5	66.3	65.6	63.7	62.4	58.6	56.0	52.0	51.4	50.7	58.3	0.0	58.3
Night	18	56.1	63.4	48.8	62.9	62.3	61.0	60.0	56.9	54.3	50.4	49.7	49.0	56.1	0.0	56.1
	19	57.9	65.9	50.1	65.4	64.8	63.1	61.9	58.5	55.7	51.9	51.2	50.3	57.9	5.0	62.9
	20	50.9	60.5	43.0	60.1	59.5	57.4	55.6	50.4	47.5	44.1	43.6	43.1	50.9	5.0	55.9
	21	51.0	60.1	42.0	59.5	58.9	57.2	55.5	51.3	48.3	43.2	42.7	42.2	51.0	5.0	56.0
	22	39.8	50.3	35.3	50.0	49.3	46.2	43.6	37.5	36.6	35.7	35.5	35.4	39.8	10.0	49.8
	23	36.5	39.3	35.2	38.8	38.4	37.8	37.5	36.8	36.3	35.6	35.4	35.3	36.5	10.0	46.5

Timeframe	Hour	L_{eq}	L_{max}	L_{min}	L1%	L2%	L5%	L8%	L25%	L50%	L90%	L95%	L99%
Day	Min	43.3	54.0	34.8	53.2	52.4	49.9	48.1	42.1	38.5	35.8	35.4	35.0
	Max	58.3	66.8	50.5	66.3	65.6	63.7	62.4	58.6	56.0	52.0	51.4	50.7
Energy Average		53.4	Average:		59.5	58.7	56.6	55.0	50.5	47.3	43.9	43.3	42.6
Night	Min	36.5	39.3	35.2	38.8	38.4	37.8	37.5	36.8	36.3	35.6	35.4	35.3
	Max	57.9	65.9	50.1	65.4	64.8	63.1	61.9	58.5	55.7	51.9	51.2	50.3
Energy Average		50.5	Average:		52.8	52.3	50.5	49.2	45.5	43.2	40.4	40.0	39.7

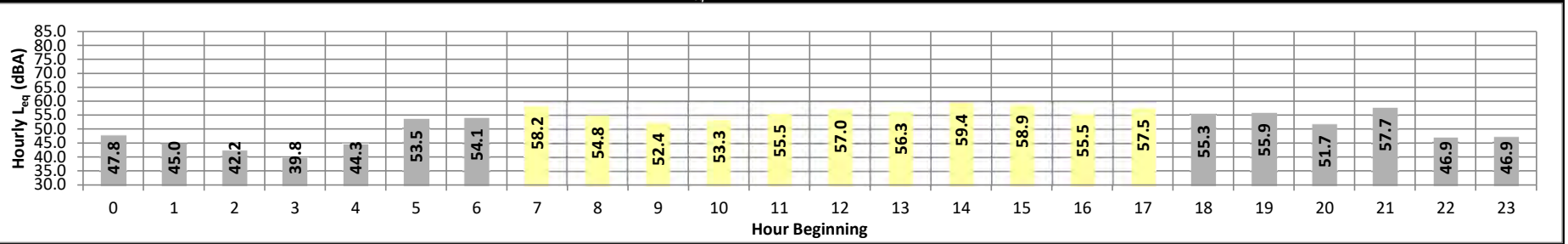
dBA CNEL	Leq (dBA) Daytime (7am-6pm)	Leq (dBA) Nighttime (6pm-7am)
54.9	**53.4**	**50.5**

24-Hour Noise Level Measurement Summary

Date: Tuesday, August 12, 2025 *Location:* L15 - Located near residence at 12690 Avenida Alta Loma. *Meter:* Piccolo II *JN:* 16694

Project: Mission Springs 306 *Source:* *Analyst:* B. Maddux

Hourly L_{eq} dBA Readings (unadjusted)



Timeframe	Hour	L_{eq}	L_{max}	L_{min}	L1%	L2%	L5%	L8%	L25%	L50%	L90%	L95%	L99%	L_{eq}	Adj.	Adj. L_{eq}
Night	0	47.8	59.3	38.8	58.9	57.9	54.9	52.0	45.7	43.3	39.9	39.3	38.9	47.8	10.0	57.8
	1	45.0	53.4	39.4	52.8	52.3	50.6	49.1	44.6	42.6	40.4	39.8	39.5	45.0	10.0	55.0
	2	42.2	53.0	37.9	52.6	51.9	48.5	45.4	39.5	38.9	38.3	38.2	38.0	42.2	10.0	52.2
	3	39.8	47.3	37.1	47.0	46.6	44.7	43.0	38.9	38.1	37.4	37.3	37.2	39.8	10.0	49.8
	4	44.3	56.1	37.4	55.8	55.1	52.0	48.8	40.2	38.6	37.8	37.7	37.5	44.3	10.0	54.3
	5	53.5	66.6	38.3	66.2	65.3	62.3	58.2	44.6	40.9	38.8	38.5	38.3	53.5	10.0	63.5
	6	54.1	66.7	40.0	66.3	65.4	61.9	58.7	50.0	45.6	41.7	41.1	40.2	54.1	10.0	64.1
Day	7	58.2	71.8	40.3	71.2	69.8	64.8	62.1	52.3	45.7	41.2	40.8	40.4	58.2	0.0	58.2
	8	54.8	69.6	40.4	68.4	67.1	62.8	60.0	51.9	46.9	42.0	41.4	40.6	54.8	0.0	54.8
	9	52.4	64.9	39.1	64.5	63.7	60.6	57.2	47.7	43.6	40.2	39.7	39.3	52.4	0.0	52.4
	10	53.3	66.3	38.2	65.8	64.9	61.1	57.7	49.4	43.6	39.5	38.9	38.3	53.3	0.0	53.3
	11	55.5	68.5	39.6	68.1	67.3	63.7	60.3	49.4	43.4	40.3	40.1	39.7	55.5	0.0	55.5
	12	57.0	66.2	52.4	65.9	65.0	61.9	59.4	56.3	55.7	53.3	53.0	52.6	57.0	0.0	57.0
	13	56.3	68.7	47.2	68.3	67.2	63.9	60.9	52.5	49.3	47.7	47.5	47.3	56.3	0.0	56.3
	14	59.4	72.9	49.9	72.3	71.1	66.6	62.8	53.6	52.0	50.5	50.3	50.0	59.4	0.0	59.4
	15	58.9	71.9	44.0	71.4	70.4	66.6	63.3	53.7	48.3	45.1	44.6	44.2	58.9	0.0	58.9
	16	55.5	67.1	45.6	66.6	65.8	62.5	59.9	53.8	50.3	46.7	46.2	45.7	55.5	0.0	55.5
	17	57.5	69.0	48.3	68.5	67.7	64.5	61.5	55.7	52.9	49.6	49.1	48.5	57.5	0.0	57.5
Night	18	55.3	66.0	46.8	65.6	64.9	61.9	59.6	54.1	51.2	48.0	47.5	46.9	55.3	0.0	55.3
	19	55.9	65.5	51.4	65.1	64.4	61.3	59.1	55.1	53.4	52.0	51.8	51.5	55.9	5.0	60.9
	20	51.7	64.4	40.2	64.0	63.3	59.9	56.5	45.9	42.3	40.8	40.5	40.3	51.7	5.0	56.7
	21	57.7	71.7	39.6	71.2	70.1	65.7	61.2	49.1	41.8	40.0	39.8	39.6	57.7	5.0	62.7
	22	46.9	59.2	40.4	58.8	57.9	53.9	50.1	42.8	41.5	40.8	40.7	40.5	46.9	10.0	56.9
	23	46.9	59.4	39.4	58.9	58.0	54.2	50.4	43.0	41.1	39.9	39.7	39.5	46.9	10.0	56.9

Timeframe	Hour	L_{eq}	L_{max}	L_{min}	L1%	L2%	L5%	L8%	L25%	L50%	L90%	L95%	L99%
Day	Min	52.4	64.9	38.2	64.5	63.7	60.6	57.2	47.7	43.4	39.5	38.9	38.3
	Max	59.4	72.9	52.4	72.3	71.1	66.6	63.3	56.3	55.7	53.3	53.0	52.6
Energy Average		56.8	Average:		68.3	67.3	63.5	60.5	52.4	48.3	45.1	44.7	44.2
Night	Min	39.8	47.3	37.1	47.0	46.6	44.7	43.0	38.9	38.1	37.4	37.3	37.2
	Max	57.7	71.7	51.4	71.2	70.1	65.7	61.2	55.1	53.4	52.0	51.8	51.5
Energy Average		52.3	Average:		60.2	59.5	56.3	53.2	45.6	43.0	41.2	40.9	40.6

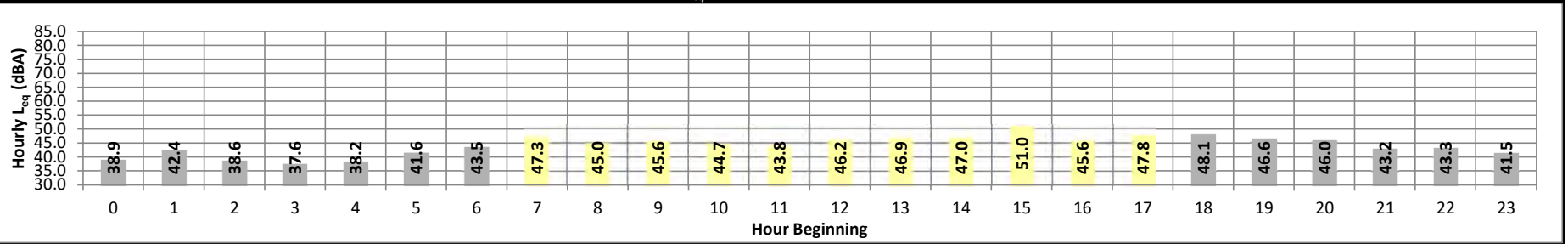
dBA CNEL	Leq (dBA) Daytime (7am-6pm)	Leq (dBA) Nighttime (6pm-7am)
58.3	**56.8**	**52.3**

24-Hour Noise Level Measurement Summary

Date: Tuesday, August 12, 2025 *Location:* L16 - Located near residence at 12110 Redbud Rd. *Meter:* Piccolo II *JN:* 16694

Project: Mission Springs 306 *Source:* *Analyst:* B. Maddux

Hourly L_{eq} dBA Readings (unadjusted)



Timeframe	*Hour*	*L_{eq}*	*L_{max}*	*L_{min}*	*L1%*	*L2%*	*L5%*	*L8%*	*L25%*	*L50%*	*L90%*	*L95%*	*L99%*	*L_{eq}*	*Adj.*	*Adj. L_{eq}*
Night	0	38.9	43.2	37.0	42.4	41.9	40.8	40.3	39.3	38.6	37.5	37.3	37.1	38.9	10.0	48.9
	1	42.4	52.5	37.2	51.7	51.2	49.5	47.8	39.9	38.2	37.5	37.4	37.3	42.4	10.0	52.4
	2	38.6	45.9	36.9	44.5	43.2	40.4	39.7	38.6	38.0	37.3	37.1	36.9	38.6	10.0	48.6
	3	37.6	39.7	36.7	39.4	39.1	38.7	38.5	37.9	37.5	37.0	36.9	36.8	37.6	10.0	47.6
	4	38.2	41.4	37.1	40.8	40.2	39.5	39.1	38.5	38.1	37.4	37.2	37.1	38.2	10.0	48.2
	5	41.6	47.6	38.1	47.3	46.8	45.9	44.7	41.8	40.6	38.5	38.3	38.2	41.6	10.0	51.6
	6	43.5	50.3	39.4	49.9	49.5	48.1	46.9	44.0	42.0	40.1	39.8	39.5	43.5	10.0	53.5
Day	7	47.3	57.0	39.3	56.4	55.6	53.5	51.4	47.3	44.0	40.3	40.0	39.5	47.3	0.0	47.3
	8	45.0	56.7	38.1	55.7	54.4	51.1	49.1	43.4	40.9	38.7	38.4	38.2	45.0	0.0	45.0
	9	45.6	52.1	42.3	51.5	51.1	50.0	49.1	45.7	44.4	43.0	42.7	42.4	45.6	0.0	45.6
	10	44.7	49.7	40.1	49.3	48.9	48.2	47.8	45.9	43.7	40.9	40.6	40.2	44.7	0.0	44.7
	11	43.8	49.5	39.8	49.2	48.9	47.9	47.1	44.6	42.9	40.5	40.3	39.9	43.8	0.0	43.8
	12	46.2	54.2	41.2	53.6	52.9	51.3	50.2	46.3	43.8	41.8	41.6	41.3	46.2	0.0	46.2
	13	46.9	57.1	41.5	56.7	56.0	53.0	50.6	46.0	43.5	42.0	41.8	41.6	46.9	0.0	46.9
	14	47.0	57.4	40.8	57.0	56.3	53.7	51.3	45.6	42.7	41.6	41.2	40.9	47.0	0.0	47.0
	15	51.0	61.9	41.6	61.8	61.4	58.9	56.1	48.2	45.5	42.0	41.9	41.7	51.0	0.0	51.0
	16	45.6	52.5	41.7	51.9	51.0	49.3	48.3	46.2	44.6	42.5	42.2	41.8	45.6	0.0	45.6
	17	47.8	55.4	43.1	54.7	53.9	52.0	51.0	48.5	46.0	43.9	43.6	43.2	47.8	0.0	47.8
Night	18	48.1	55.8	42.2	55.4	54.9	53.5	52.8	48.1	45.4	43.0	42.7	42.4	48.1	0.0	48.1
	19	46.6	54.2	42.1	53.5	52.8	51.7	50.6	46.4	44.8	42.9	42.6	42.3	46.6	5.0	51.6
	20	46.0	54.2	39.8	53.2	52.6	51.3	50.2	46.5	43.7	40.7	40.3	39.9	46.0	5.0	51.0
	21	43.2	53.1	39.3	52.0	51.3	48.3	46.7	42.7	40.4	39.7	39.5	39.4	43.2	5.0	48.2
	22	43.3	50.8	38.8	49.7	48.7	47.1	46.3	44.0	42.2	39.5	39.2	38.9	43.3	10.0	53.3
	23	41.5	49.6	38.2	49.0	48.5	46.9	45.5	40.6	39.3	38.6	38.5	38.3	41.5	10.0	51.5

Timeframe	*Hour*	*L_{eq}*	*L_{max}*	*L_{min}*	*L1%*	*L2%*	*L5%*	*L8%*	*L25%*	*L50%*	*L90%*	*L95%*	*L99%*
Day	Min	43.8	49.5	38.1	49.2	48.9	47.9	47.1	43.4	40.9	38.7	38.4	38.2
	Max	51.0	61.9	43.1	61.8	61.4	58.9	56.1	48.5	46.0	43.9	43.6	43.2
Energy Average		46.9	Average:		54.3	53.7	51.7	50.2	46.1	43.8	41.5	41.3	41.0
Night	Min	37.6	39.7	36.7	39.4	39.1	38.7	38.5	37.9	37.5	37.0	36.9	36.8
	Max	48.1	55.8	42.2	55.4	54.9	53.5	52.8	48.1	45.4	43.0	42.7	42.4
Energy Average		43.4	Average:		48.4	47.7	46.3	45.3	42.2	40.7	39.2	39.0	38.8

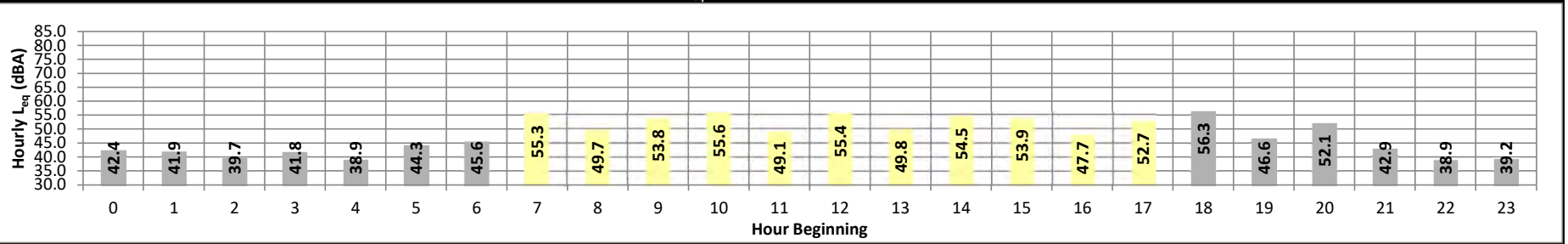
dBA CNEL	*Leq (dBA) Daytime (7am-6pm)*	*Leq (dBA) Nighttime (6pm-7am)*
49.4	**46.9**	**43.4**

24-Hour Noise Level Measurement Summary

Date: Tuesday, August 12, 2025 *Location:* L17 - Located near residence at 12565 Skyline Dr. *Meter:* Piccolo II *JN:* 16694

Project: Mission Springs 306 *Source:* *Analyst:* B. Maddux

Hourly L_{eq} dBA Readings (unadjusted)



Timeframe	Hour	L_{eq}	L_{max}	L_{min}	L1%	L2%	L5%	L8%	L25%	L50%	L90%	L95%	L99%	L_{eq}	Adj.	Adj. L_{eq}
Night	0	42.4	52.8	39.0	52.3	51.4	47.7	44.6	40.7	39.8	39.2	39.1	39.0	42.4	10.0	52.4
	1	41.9	53.0	38.7	52.4	51.3	45.4	41.8	40.3	39.9	39.0	38.8	38.7	41.9	10.0	51.9
	2	39.7	41.8	38.5	41.5	41.3	41.0	40.7	40.0	39.6	38.8	38.7	38.6	39.7	10.0	49.7
	3	41.8	55.3	37.7	54.2	51.5	45.3	43.0	39.3	39.0	38.0	37.8	37.7	41.8	10.0	51.8
	4	38.9	40.9	37.2	40.5	40.3	40.0	39.8	39.3	38.9	37.7	37.4	37.3	38.9	10.0	48.9
	5	44.3	54.8	40.4	54.4	53.7	50.5	47.7	42.1	41.2	40.6	40.5	40.4	44.3	10.0	54.3
	6	45.6	56.1	40.3	55.7	55.1	52.2	49.8	43.6	42.1	40.8	40.5	40.4	45.6	10.0	55.6
Day	7	55.3	69.8	40.3	69.0	67.4	62.9	58.9	46.4	42.0	40.8	40.5	40.4	55.3	0.0	55.3
	8	49.7	62.7	40.5	62.3	61.3	57.3	53.4	44.2	42.0	41.0	40.9	40.6	49.7	0.0	49.7
	9	53.8	67.8	39.6	67.2	66.1	61.7	57.5	43.7	40.9	40.0	39.8	39.7	53.8	0.0	53.8
	10	55.6	69.1	41.9	68.7	67.7	62.8	57.9	51.4	46.9	43.0	42.5	42.0	55.6	0.0	55.6
	11	49.1	61.5	40.2	60.9	60.0	56.2	53.5	45.4	42.1	40.6	40.4	40.2	49.1	0.0	49.1
	12	55.4	68.9	39.6	68.4	67.3	63.6	59.8	47.8	42.5	40.2	39.9	39.7	55.4	0.0	55.4
	13	49.8	62.1	41.1	61.7	61.0	57.6	54.2	45.4	42.9	41.5	41.4	41.2	49.8	0.0	49.8
	14	54.5	68.8	41.3	68.1	66.8	62.1	58.0	44.3	42.6	41.7	41.6	41.4	54.5	0.0	54.5
	15	53.9	66.4	43.5	65.9	64.9	62.0	58.3	49.8	47.5	44.7	44.3	43.7	53.9	0.0	53.9
	16	47.7	54.1	44.0	53.7	53.2	51.6	50.5	48.2	46.6	44.7	44.5	44.1	47.7	0.0	47.7
	17	52.7	66.1	45.1	65.0	63.5	58.9	55.2	49.8	47.8	45.7	45.5	45.1	52.7	0.0	52.7
Night	18	56.3	69.5	44.5	69.1	68.2	64.6	60.3	49.8	46.8	45.1	44.8	44.6	56.3	0.0	56.3
	19	46.6	56.3	43.2	55.6	54.7	51.8	49.1	45.6	44.6	43.6	43.4	43.2	46.6	5.0	51.6
	20	52.1	66.0	40.6	65.3	64.1	59.5	55.5	45.6	41.9	41.0	40.8	40.7	52.1	5.0	57.1
	21	42.9	54.0	37.8	53.7	53.0	50.0	46.7	39.8	38.8	38.1	38.0	37.9	42.9	5.0	47.9
	22	38.9	42.3	37.5	41.9	41.5	40.6	40.2	39.2	38.7	37.9	37.8	37.5	38.9	10.0	48.9
	23	39.2	41.4	38.2	41.2	41.0	40.4	40.1	39.5	39.1	38.5	38.4	38.3	39.2	10.0	49.2

Timeframe	Hour	L_{eq}	L_{max}	L_{min}	L1%	L2%	L5%	L8%	L25%	L50%	L90%	L95%	L99%
Day	Min	47.7	54.1	39.6	53.7	53.2	51.6	50.5	43.7	40.9	40.0	39.8	39.7
	Max	55.6	69.8	45.1	69.0	67.7	63.6	59.8	51.4	47.8	45.7	45.5	45.1
Energy Average		53.3	Average:		64.6	63.5	59.7	56.1	47.0	44.0	42.2	41.9	41.6
Night	Min	38.9	40.9	37.2	40.5	40.3	40.0	39.8	39.2	38.7	37.7	37.4	37.3
	Max	56.3	69.5	44.5	69.1	68.2	64.6	60.3	49.8	46.8	45.1	44.8	44.6
Energy Average		47.9	Average:		52.1	51.3	48.4	46.1	41.9	40.8	39.9	39.7	39.6

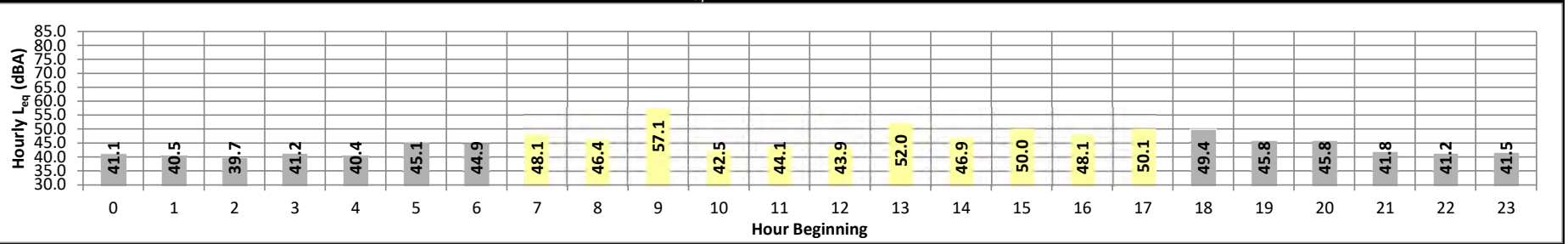
Leq (dBA)		
dBA CNEL	*Daytime (7am-6pm)*	*Nighttime (6pm-7am)*
53.1	**53.3**	**47.9**

24-Hour Noise Level Measurement Summary

Date: Tuesday, August 12, 2025 *Location:* L18 - Located near residence at 12775 Beech Ave. *Meter:* Piccolo II *JN:* 16694

Project: Mission Springs 306 *Source:* *Analyst:* B. Maddux

Hourly L_{eq} dBA Readings (unadjusted)



Timeframe	Hour	L_{eq}	L_{max}	L_{min}	L1%	L2%	L5%	L8%	L25%	L50%	L90%	L95%	L99%	L_{eq}	Adj.	Adj. L_{eq}
Night	0	41.1	48.5	39.8	47.1	45.7	43.1	42.3	41.1	40.3	39.9	39.8	39.7	41.1	10.0	51.1
	1	40.5	42.4	39.8	42.0	41.7	41.3	41.1	40.6	40.2	39.8	39.8	39.7	40.5	10.0	50.5
	2	39.7	41.7	39.2	41.3	41.0	40.5	40.2	39.7	39.4	39.2	39.2	39.1	39.7	10.0	49.7
	3	41.2	48.6	39.1	48.3	47.9	46.0	44.0	40.2	39.7	39.2	39.1	39.0	41.2	10.0	51.2
	4	40.4	46.0	38.9	45.1	44.4	43.1	42.3	40.5	39.5	39.0	38.9	38.9	40.4	10.0	50.4
	5	45.1	56.3	39.3	56.0	55.5	52.7	49.5	41.1	40.2	39.4	39.3	39.2	45.1	10.0	55.1
	6	44.9	52.0	40.6	51.5	51.0	49.7	48.5	44.9	43.2	41.4	41.0	40.6	44.9	10.0	54.9
Day	7	48.1	55.4	41.0	54.5	53.9	53.1	52.5	48.9	46.4	41.4	41.2	41.0	48.1	0.0	48.1
	8	46.4	56.0	40.1	55.2	54.6	52.8	51.2	45.7	43.0	40.6	40.3	40.1	46.4	0.0	46.4
	9	57.1	64.6	52.1	64.0	63.3	62.0	61.3	56.8	55.3	53.0	52.5	52.2	57.1	0.0	57.1
	10	42.5	49.6	40.4	49.0	48.4	46.5	45.0	42.1	41.1	40.5	40.4	40.3	42.5	0.0	42.5
	11	44.1	52.5	40.2	52.1	51.6	49.6	47.7	43.8	41.9	40.5	40.3	40.1	44.1	0.0	44.1
	12	43.9	52.6	39.9	52.4	52.0	50.0	47.7	43.2	41.1	40.0	39.9	39.8	43.9	0.0	43.9
	13	52.0	62.9	41.1	62.7	62.3	60.4	57.8	48.5	42.9	41.3	41.2	41.0	52.0	0.0	52.0
	14	46.9	58.5	40.7	57.9	57.1	54.0	51.1	43.8	41.9	40.9	40.8	40.7	46.9	0.0	46.9
	15	50.0	60.2	43.1	60.0	59.5	57.6	55.2	47.2	44.6	43.5	43.3	43.1	50.0	0.0	50.0
	16	48.1	54.1	44.9	53.8	53.4	51.8	50.6	48.4	47.3	45.4	45.1	44.9	48.1	0.0	48.1
	17	50.1	58.8	45.8	57.9	57.0	54.9	53.2	50.1	48.3	46.6	46.2	45.9	50.1	0.0	50.1
Night	18	49.4	55.4	44.8	55.1	54.9	54.0	53.5	49.5	47.4	45.5	45.2	44.9	49.4	0.0	49.4
	19	45.8	54.2	42.8	53.4	52.8	50.4	48.6	45.3	44.4	43.2	43.0	42.8	45.8	5.0	50.8
	20	45.8	56.2	41.1	55.7	54.8	52.2	49.9	43.7	42.2	41.3	41.2	41.1	45.8	5.0	50.8
	21	41.8	47.9	40.4	47.5	46.9	45.5	44.1	41.1	40.8	40.5	40.4	40.3	41.8	5.0	46.8
	22	41.2	44.2	40.2	43.8	43.4	42.6	42.2	41.3	40.8	40.3	40.2	40.1	41.2	10.0	51.2
	23	41.5	44.7	40.8	44.3	43.6	42.6	42.2	41.5	41.2	40.8	40.8	40.7	41.5	10.0	51.5

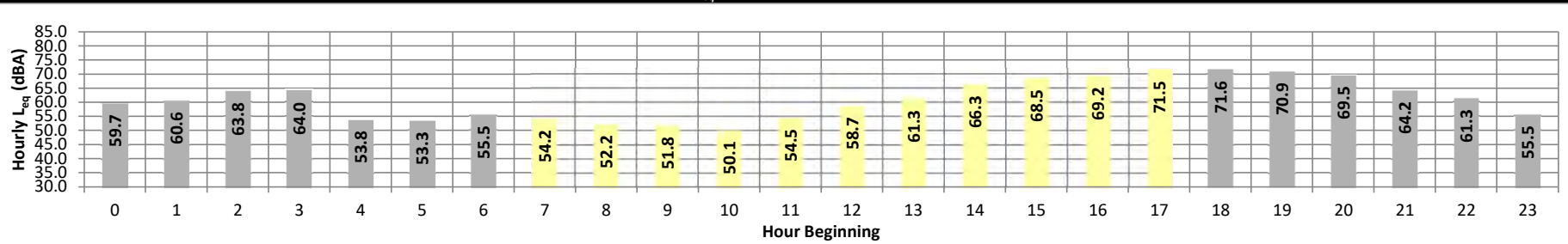
Timeframe	Hour	L_{eq}	L_{max}	L_{min}	L1%	L2%	L5%	L8%	L25%	L50%	L90%	L95%	L99%
Day	Min	42.5	49.6	39.9	49.0	48.4	46.5	45.0	42.1	41.1	40.0	39.9	39.8
	Max	57.1	64.6	52.1	64.0	63.3	62.0	61.3	56.8	55.3	53.0	52.5	52.2
Energy Average		50.3	Average:		56.3	55.7	53.9	52.1	47.1	44.9	43.1	42.8	42.7
Night	Min	39.7	41.7	38.9	41.3	41.0	40.5	40.2	39.7	39.4	39.0	38.9	38.9
	Max	49.4	56.3	44.8	56.0	55.5	54.0	53.5	49.5	47.4	45.5	45.2	44.9
Energy Average		44.0	Average:		48.5	48.0	46.4	45.3	42.3	41.5	40.7	40.6	40.5

dBA CNEL	Leq (dBA) Daytime (7am-6pm)	Leq (dBA) Nighttime (6pm-7am)
51.0	**50.3**	**44.0**

24-Hour Noise Level Measurement Summary

Date: Thursday, August 14, 2025 *Location:* L19 - Located near residence at 64050 18th Ave. *Meter:* Piccolo II *JN:* 16694
Project: Mission Springs 306 *Source:* *Analyst:* B. Maddux

Hourly L_{eq} dBA Readings (unadjusted)



Timeframe	Hour	L_{eq}	L_{max}	L_{min}	L1%	L2%	L5%	L8%	L25%	L50%	L90%	L95%	L99%	L_{eq}	Adj.	Adj. L_{eq}
Night	0	59.7	65.9	52.7	65.5	65.2	64.2	63.4	60.7	58.3	54.6	53.8	53.0	59.7	10.0	69.7
	1	60.6	66.2	53.6	65.9	65.5	64.6	63.9	61.8	59.5	55.5	54.7	53.8	60.6	10.0	70.6
	2	63.8	70.4	55.7	69.9	69.5	68.5	67.6	64.8	62.4	57.8	56.8	55.9	63.8	10.0	73.8
	3	64.0	69.9	56.3	69.5	69.1	68.1	67.4	65.2	63.0	58.7	57.7	56.6	64.0	10.0	74.0
	4	53.8	58.3	49.7	57.9	57.6	57.0	56.5	54.8	53.1	50.6	50.3	49.8	53.8	10.0	63.8
	5	53.3	57.5	49.6	57.2	57.0	56.5	56.0	54.1	52.7	50.4	50.1	49.7	53.3	10.0	63.3
	6	55.5	59.5	51.2	59.2	58.9	58.3	57.9	56.7	55.0	52.1	51.7	51.3	55.5	10.0	65.5
Day	7	54.2	58.2	51.2	58.0	57.9	57.3	56.6	54.9	53.6	51.8	51.5	51.2	54.2	0.0	54.2
	8	52.2	58.8	48.5	58.5	58.0	56.4	55.0	52.4	51.1	49.3	49.0	48.7	52.2	0.0	52.2
	9	51.8	57.1	48.7	56.6	56.0	54.8	54.0	52.3	51.2	49.5	49.2	48.8	51.8	0.0	51.8
	10	50.1	55.2	47.2	54.8	54.2	53.1	52.5	50.5	49.4	47.9	47.6	47.3	50.1	0.0	50.1
	11	54.5	60.7	49.7	60.3	59.9	58.7	57.7	55.1	53.2	50.7	50.2	49.8	54.5	0.0	54.5
	12	58.7	64.9	52.5	64.4	63.9	62.7	62.1	59.8	57.6	54.1	53.5	52.7	58.7	0.0	58.7
	13	61.3	67.9	54.3	67.6	67.3	66.3	65.3	61.8	59.7	56.1	55.3	54.5	61.3	0.0	61.3
	14	66.3	72.8	58.6	72.4	72.0	70.8	70.1	67.4	64.8	60.9	60.1	58.9	66.3	0.0	66.3
	15	68.5	75.0	60.3	74.6	74.2	73.2	72.4	69.6	67.1	62.4	61.5	60.5	68.5	0.0	68.5
	16	69.2	75.6	61.5	75.1	74.7	73.8	73.1	70.3	67.7	63.4	62.6	61.8	69.2	0.0	69.2
	17	71.5	77.4	63.4	77.0	76.6	75.7	75.1	72.7	70.3	65.8	64.9	63.7	71.5	0.0	71.5
Night	18	71.6	78.6	63.4	78.1	77.5	76.0	75.2	72.7	70.1	65.8	64.8	63.7	71.6	0.0	71.6
	19	70.9	78.0	62.5	77.6	77.1	75.6	74.7	71.9	69.5	64.9	63.9	62.7	70.9	5.0	75.9
	20	69.5	76.0	60.9	75.6	75.1	74.0	73.2	70.8	67.9	63.4	62.4	61.3	69.5	5.0	74.5
	21	64.2	70.6	57.3	70.2	69.7	68.7	68.0	65.4	62.7	58.9	58.2	57.5	64.2	5.0	69.2
	22	61.3	67.9	53.8	67.6	67.1	66.0	65.1	62.3	59.9	55.5	54.8	54.0	61.3	10.0	71.3
	23	55.5	60.8	50.7	60.4	59.9	59.0	58.4	56.4	54.7	51.7	51.2	50.8	55.5	10.0	65.5

Timeframe	Hour	L_{eq}	L_{max}	L_{min}	L1%	L2%	L5%	L8%	L25%	L50%	L90%	L95%	L99%
Day	Min	50.1	55.2	47.2	54.8	54.2	53.1	52.5	50.5	49.4	47.9	47.6	47.3
	Max	71.5	77.4	63.4	77.0	76.6	75.7	75.1	72.7	70.3	65.8	64.9	63.7
Energy Average		65.3	Average:		65.4	65.0	63.9	63.1	60.6	58.7	55.6	55.0	54.4
Night	Min	53.3	57.5	49.6	57.2	57.0	56.5	56.0	54.1	52.7	50.4	50.1	49.7
	Max	71.6	78.6	63.4	78.1	77.5	76.0	75.2	72.7	70.1	65.8	64.8	63.7
Energy Average		65.7	Average:		67.3	66.9	65.9	65.2	62.9	60.7	56.9	56.2	55.4

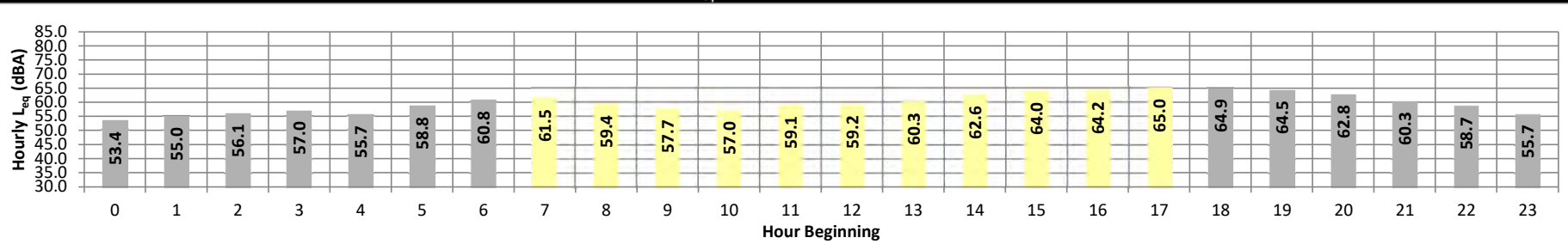
Leq (dBA)		
dBA CNEL	*Daytime (7am-6pm)*	*Nighttime (6pm-7am)*
69.7	**65.3**	**65.7**

24-Hour Noise Level Measurement Summary

Date: Thursday, August 14, 2025 *Location:* L20 - Located near residence at 17725 Covey St. *Meter:* Piccolo II *JN:* 16694

Project: Mission Springs 306 *Source:* *Analyst:* B. Maddux

Hourly L_{eq} dBA Readings (unadjusted)



Timeframe	Hour	L_{eq}	L_{max}	L_{min}	L1%	L2%	L5%	L8%	L25%	L50%	L90%	L95%	L99%	L_{eq}	Adj.	Adj. L_{eq}
Night	0	53.4	61.0	46.8	60.7	60.2	58.8	57.7	54.1	51.0	47.7	47.3	46.9	53.4	10.0	63.4
	1	55.0	63.0	48.0	62.6	62.1	60.4	59.0	55.6	52.7	49.1	48.7	48.2	55.0	10.0	65.0
	2	56.1	63.7	48.6	63.3	62.9	61.4	60.2	56.8	53.9	50.0	49.3	48.7	56.1	10.0	66.1
	3	57.0	64.7	49.5	64.3	63.9	62.3	61.0	57.7	55.0	51.2	50.4	49.7	57.0	10.0	67.0
	4	55.7	64.2	48.0	64.0	63.6	62.0	60.4	56.0	52.3	48.9	48.5	48.1	55.7	10.0	65.7
	5	58.8	67.2	49.6	66.8	66.3	64.4	63.2	59.6	56.0	50.9	50.2	49.8	58.8	10.0	68.8
	6	60.8	67.7	52.2	67.4	67.1	65.8	64.8	61.9	59.0	53.8	53.1	52.3	60.8	10.0	70.8
Day	7	61.5	68.2	53.2	67.9	67.6	66.2	65.1	62.5	60.0	55.2	54.2	53.4	61.5	0.0	61.5
	8	59.4	66.9	49.2	66.6	66.2	64.7	63.6	60.5	57.4	51.3	50.1	49.3	59.4	0.0	59.4
	9	57.7	65.4	47.8	65.2	64.9	63.4	62.1	58.6	55.4	49.5	48.6	47.9	57.7	0.0	57.7
	10	57.0	64.8	48.2	64.6	64.2	62.7	61.3	57.8	54.6	49.5	48.8	48.3	57.0	0.0	57.0
	11	59.1	67.8	49.7	67.5	67.0	65.1	63.5	59.4	56.5	51.2	50.4	49.9	59.1	0.0	59.1
	12	59.2	66.0	50.2	65.7	65.3	64.2	63.2	60.3	57.5	52.2	51.4	50.5	59.2	0.0	59.2
	13	60.3	67.7	50.1	67.4	67.0	65.5	64.4	61.3	58.4	52.6	51.4	50.4	60.3	0.0	60.3
	14	62.6	70.9	53.7	70.5	70.0	67.8	66.3	63.1	60.7	56.3	55.2	54.0	62.6	0.0	62.6
	15	64.0	70.8	55.6	70.5	70.1	68.5	67.3	64.9	62.8	58.3	57.3	56.0	64.0	0.0	64.0
	16	64.2	70.8	56.0	70.5	70.0	68.7	67.7	65.1	63.0	58.8	57.5	56.3	64.2	0.0	64.2
	17	65.0	72.0	57.5	71.7	71.1	69.7	68.5	65.8	63.8	59.8	58.9	57.8	65.0	0.0	65.0
Night	18	64.9	71.7	57.3	71.3	70.8	69.3	68.4	65.9	63.6	59.6	58.7	57.6	64.9	0.0	64.9
	19	64.5	71.7	56.5	71.1	70.5	69.0	68.2	65.3	63.0	58.7	57.7	56.8	64.5	5.0	69.5
	20	62.8	70.3	54.8	69.8	69.2	68.1	66.9	63.5	61.2	56.8	55.9	55.1	62.8	5.0	67.8
	21	60.3	68.6	51.7	68.3	67.8	66.0	64.5	60.8	58.1	53.7	52.8	51.9	60.3	5.0	65.3
	22	58.7	67.0	50.3	66.8	66.5	65.1	63.3	58.9	55.8	51.6	51.1	50.5	58.7	10.0	68.7
	23	55.7	63.7	48.6	63.5	63.2	61.8	60.4	56.2	52.9	49.4	49.0	48.7	55.7	10.0	65.7

Timeframe	Hour	L_{eq}	L_{max}	L_{min}	L1%	L2%	L5%	L8%	L25%	L50%	L90%	L95%	L99%
Day	Min	57.0	64.8	47.8	64.6	64.2	62.7	61.3	57.8	54.6	49.5	48.6	47.9
	Max	65.0	72.0	57.5	71.7	71.1	69.7	68.5	65.8	63.8	59.8	58.9	57.8
Energy Average		61.7	Average:		68.0	67.6	66.0	64.8	61.7	59.1	54.1	53.1	52.2
Night	Min	53.4	61.0	46.8	60.7	60.2	58.8	57.7	54.1	51.0	47.7	47.3	46.9
	Max	64.9	71.7	57.3	71.3	70.8	69.3	68.4	65.9	63.6	59.6	58.7	57.6
Energy Average		60.3	Average:		66.1	65.7	64.2	62.9	59.4	56.5	52.4	51.8	51.1

Leq (dBA)		
dBA CNEL	Daytime (7am-6pm)	Nighttime (6pm-7am)
65.6	**61.7**	**60.3**

APPENDIX 8.1:

CONSTRUCTION NOISE CALCULATIONS

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14726 - Beech Logistics Center

CadnaA Noise Prediction Model: 16694-02_Construction.cna
Date: 25.01.26
Analyst: B. Lawson

Calculation Configuration

Configuration	
Parameter	**Value**
General	
Max. Error (dB)	**0.00**
Max. Search Radius (ft)	**6561.70**
Min. Dist Src to Rcvr	**0.00**
Partition	
Raster Factor	**0.50**
Max. Length of Section (ft)	**3280.80**
Min. Length of Section (ft)	**3.30**
Min. Length of Section (%)	**0.00**
Proj. Line Sources	**On**
Proj. Area Sources	**On**
Ref. Time	
Daytime Penalty (dB)	**0.00**
Recr. Time Penalty (dB)	**5.00**
Night-time Penalty (dB)	**10.00**
DTM	
Standard Height (m)	**0.00**
Model of Terrain	**Triangulation**
Reflection	
max. Order of Reflection	**2**
Search Radius Src	**328.08**
Search Radius Rcvr	**328.08**
Max. Distance Source - Rcvr	**3280.84 3280.84**
Min. Distance Rvcr - Reflector	**3.28 3.28**
Min. Distance Source - Reflector	**0.33**
Industrial (ISO 9613 (1996))	
Lateral Diffraction	**some Obj**
Obst. within Area Src do not shield	**On**
Screening	**Incl. Ground Att. over Barrier**
	Dz with limit (20/25)
Barrier Coefficients C1,2,3	**3.0 20.0 0.0**
Temperature (°F)	**50**
rel. Humidity (%)	**70**
Ground Absorption G	**0.66**
Wind Speed for Dir. (mph)	**6.7**
Roads (TNM)	
Railways (FTA/FRA)	
Aircraft (???)	
Strictly acc. to AzB	

Receiver Noise Levels

Name	M.	ID	Level Lr			Limit. Value			Land Use			Height		Coordinates		
			Day	Night	CNEL	Day	Night	CNEL	Type	Auto	Noise Type			X	Y	Z
			(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)				(ft)		(ft)	(ft)	(ft)
R01		R01	66.5	-33.5	63.4	80.0	70.0	0.0				5.00	r	6474196.57	2301374.52	5.00
R02		R02	74.1	-25.9	71.0	80.0	70.0	0.0				5.00	r	6475288.01	2299423.50	5.00
R03		R03	71.4	-28.6	68.4	80.0	70.0	0.0				5.00	r	6476914.82	2300761.88	5.00
R04		R04	74.5	-25.5	71.5	80.0	70.0	0.0				5.00	r	6484675.45	2297947.26	5.00
R05		R05	71.5	-28.5	68.5	80.0	70.0	0.0				5.00	r	6484925.58	2298587.09	5.00
R06		R06	75.2	-24.8	72.2	80.0	70.0	0.0				5.00	r	6488391.53	2292546.90	5.00
R07		R07	72.3	-27.7	69.3	80.0	70.0	0.0				5.00	r	6489478.85	2291979.80	5.00
R08		R08	72.4	-27.6	69.4	80.0	70.0	0.0				5.00	r	6491982.53	2291790.94	5.00
R09		R09	72.3	-27.7	69.3	80.0	70.0	0.0				5.00	r	6491601.42	2288350.15	5.00
R10		R10	72.2	-27.8	69.2	80.0	70.0	0.0				5.00	r	6491428.52	2290203.13	5.00
R11		R11	63.8	-36.2	60.8	80.0	70.0	0.0				5.00	r	6492901.21	2291765.63	5.00
R12		R12	70.7	-29.3	67.6	80.0	70.0	0.0				5.00	r	6492533.41	2289350.26	5.00
R13		R13	71.8	-28.2	68.8	80.0	70.0	0.0				5.00	r	6494639.33	2289822.79	5.00
R14		R14	69.5	-30.5	66.5	80.0	70.0	0.0				5.00	r	6493691.88	2293132.70	5.00
R15		R15	70.4	-29.6	67.4	80.0	70.0	0.0				5.00	r	6494601.55	2292223.27	5.00
R16		R16	70.9	-29.1	67.9	80.0	70.0	0.0				5.00	r	6495460.54	2293096.61	5.00
R17		R17	71.2	-28.8	68.2	80.0	70.0	0.0				5.00	r	6496267.83	2292190.36	5.00
R18		R18	72.5	-27.5	69.4	80.0	70.0	0.0				5.00	r	6495868.70	2291084.57	5.00
R19		R19	45.9	-54.1	42.9	80.0	70.0	0.0				5.00	r	6472586.96	2277725.59	5.00
R20		R20	44.6	-55.4	41.6	80.0	70.0	0.0				5.00	r	6471902.30	2278313.77	5.00

Point Source(s)

Name	M.	ID	Result. PWL			Lw / Li			Operating Time			Height		Coordinates		
			Day	Evening	Night	Type	Value	norm.	Day	Special	Night			X	Y	Z
			(dBA)	(dBA)	(dBA)			dB(A)	(min)	(min)	(min)	(ft)		(ft)	(ft)	(ft)

Line Source(s)

Name	M.	ID	Result. PWL			Result. PWL'			Lw / Li			Operating Time			Moving Pt. Src				Height
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Special	Night	Number			Speed	
			(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)			dB(A)	(min)	(min)	(min)	Day	Evening	Night	(mph)	(ft)

Name	ID	Height		Coordinates			
		Begin	End	x	y	z	Ground
		(ft)	(ft)	(ft)	(ft)	(ft)	(ft)

Area Source(s)

Name	M.	ID	Result. PWL			Result. PWL''			Lw / Li			Work Crews				Operating Time			Height	
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Qantity			Speed	Day	Special	Night	(ft)	
			(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)			dB(A)	Daytime	Evening	Nighttime	(mph)	(min)	(min)	(min)		
CA01		CA01	115.7	15.7	15.7	80.3	-19.7	-19.7	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA02		CA02	115.7	15.7	15.7	77.1	-22.9	-22.9	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA03		CA03	115.7	15.7	15.7	79.9	-20.1	-20.1	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA04		CA04	115.7	15.7	15.7	82.7	-17.3	-17.3	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA05		CA05	115.7	15.7	15.7	92.1	-7.9	-7.9	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA06		CA06	115.7	15.7	15.7	91.0	-9.0	-9.0	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA07		CA07	115.7	15.7	15.7	88.2	-11.8	-11.8	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA08		CA08	115.7	15.7	15.7	88.9	-11.1	-11.1	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA09		CA09	115.7	15.7	15.7	89.2	-10.8	-10.8	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA10		CA10	115.7	15.7	15.7	89.7	-10.3	-10.3	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA11		CA11	115.7	15.7	15.7	81.6	-18.4	-18.4	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA12		CA12	115.7	15.7	15.7	91.5	-8.5	-8.5	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA13		CA13	115.7	15.7	15.7	90.7	-9.3	-9.3	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA14		CA14	115.7	15.7	15.7	78.8	-21.2	-21.2	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA15		CA15	115.7	15.7	15.7	86.1	-13.9	-13.9	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA16		CA16	115.7	15.7	15.7	91.8	-8.2	-8.2	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA17		CA17	115.7	15.7	15.7	90.7	-9.3	-9.3	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA18		CA18	115.7	15.7	15.7	86.1	-13.9	-13.9	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA19		CA19	115.7	15.7	15.7	91.1	-8.9	-8.9	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA20		CA20	115.7	15.7	15.7	84.7	-15.3	-15.3	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA21		CA21	115.7	15.7	15.7	73.6	-26.4	-26.4	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA22		CA22	115.7	15.7	15.7	75.7	-24.3	-24.3	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA23		CA23	115.7	15.7	15.7	84.4	-15.6	-15.6	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA24		CA24	115.7	15.7	15.7	78.7	-21.3	-21.3	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA25		CA25	115.7	15.7	15.7	86.1	-13.9	-13.9	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA26		CA26	115.7	15.7	15.7	86.2	-13.8	-13.8	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA27		CA27	115.7	15.7	15.7	90.6	-9.4	-9.4	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA28		CA28	115.7	15.7	15.7	80.0	-20.0	-20.0	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA29		CA29	115.7	15.7	15.7	84.4	-15.6	-15.6	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA30		CA30	115.7	15.7	15.7	87.1	-12.9	-12.9	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA31		CA31	115.7	15.7	15.7	91.0	-9.0	-9.0	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA32		CA32	115.7	15.7	15.7	89.2	-10.8	-10.8	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA33		CA33	115.7	15.7	15.7	89.4	-10.6	-10.6	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA34		CA34	115.7	15.7	15.7	89.7	-10.3	-10.3	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA35		CA35	115.7	15.7	15.7	89.8	-10.2	-10.2	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA36		CA36	115.7	15.7	15.7	80.4	-19.6	-19.6	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA37		CA37	115.7	15.7	15.7	85.4	-14.6	-14.6	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA38		CA38	115.7	15.7	15.7	87.5	-12.5	-12.5	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA39		CA39	115.7	15.7	15.7	82.1	-17.9	-17.9	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA40		CA40	115.7	15.7	15.7	81.7	-18.3	-18.3	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA41		CA41	115.7	15.7	15.7	80.0	-20.0	-20.0	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA42		CA42	115.7	15.7	15.7	80.0	-20.0	-20.0	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA43		CA43	115.7	15.7	15.7	81.1	-18.9	-18.9	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA44		CA44	115.7	15.7	15.7	81.1	-18.9	-18.9	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA45		CA45	115.7	15.7	15.7	86.4	-13.6	-13.6	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA46		CA46	115.7	15.7	15.7	86.8	-13.2	-13.2	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA47		CA47	115.7	15.7	15.7	86.1	-13.9	-13.9	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA48		CA48	115.7	15.7	15.7	81.0	-19.0	-19.0	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA49		CA49	115.7	15.7	15.7	80.0	-20.0	-20.0	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA50		CA50	115.7	15.7	15.7	87.1	-12.9	-12.9	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA51		CA51	115.7	15.7	15.7	81.8	-18.2	-18.2	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA52		CA52	115.7	15.7	15.7	81.8	-18.2	-18.2	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA53		CA53	115.7	15.7	15.7	82.7	-17.3	-17.3	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA54		CA54	115.7	15.7	15.7	83.5	-16.5	-16.5	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA55		CA55	115.7	15.7	15.7	80.0	-20.0	-20.0	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA56		CA56	115.7	15.7	15.7	81.0	-19.0	-19.0	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA57		CA57	115.7	15.7	15.7	87.1	-12.9	-12.9	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA58		CA58	115.7	15.7	15.7	89.6	-10.4	-10.4	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA59		CA59	115.7	15.7	15.7	78.1	-21.9	-21.9	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA60		CA60	115.7	15.7	15.7	79.5	-20.5	-20.5	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA61		CA61	115.7	15.7	15.7	87.2	-12.8	-12.8	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA62		CA62	115.7	15.7	15.7	78.3	-21.7	-21.7	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA63		CA63	115.7	15.7	15.7	80.0	-20.0	-20.0	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA64		CA64	115.7	15.7	15.7	85.9	-14.1	-14.1	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA65		CA65	115.7	15.7	15.7	88.6	-11.4	-11.4	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r

Name	M.	ID	Result. PWL			Result. PWL''			Lw / Li			Work Crews				Operating Time			Height	
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Qantity			Speed	Day	Special	Night	(ft)	
			(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)			dB(A)	Daytime	Evening	Nighttime	(mph)	(min)	(min)	(min)		
CA66		CA66	115.7	15.7	15.7	90.8	-9.2	-9.2	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA67		CA67	115.7	15.7	15.7	79.8	-20.2	-20.2	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA68		CA68	115.7	15.7	15.7	83.3	-16.7	-16.7	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA69		CA69	115.7	15.7	15.7	88.3	-11.7	-11.7	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA70		CA70	115.7	15.7	15.7	80.6	-19.4	-19.4	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA71		CA71	115.7	15.7	15.7	89.0	-11.0	-11.0	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA72		CA72	115.7	15.7	15.7	79.3	-20.7	-20.7	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA73		CA73	115.7	15.7	15.7	80.7	-19.3	-19.3	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA74		CA74	115.7	15.7	15.7	82.2	-17.8	-17.8	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA75		CA75	115.7	15.7	15.7	81.5	-18.5	-18.5	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA76		CA76	115.7	15.7	15.7	80.3	-19.7	-19.7	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA77		CA77	115.7	15.7	15.7	77.4	-22.6	-22.6	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA78		CA78	115.7	15.7	15.7	81.7	-18.3	-18.3	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA79		CA79	115.7	15.7	15.7	82.1	-17.9	-17.9	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA80		CA80	115.7	15.7	15.7	93.6	-6.4	-6.4	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA81		CA81	115.7	15.7	15.7	93.2	-6.8	-6.8	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA82		CA82	115.7	15.7	15.7	82.6	-17.4	-17.4	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA83		CA83	115.7	15.7	15.7	82.2	-17.8	-17.8	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA84		CA84	115.7	15.7	15.7	80.9	-19.1	-19.1	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA85		CA85	115.7	15.7	15.7	72.5	-27.5	-27.5	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA86		CA86	115.7	15.7	15.7	74.9	-25.1	-25.1	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA87		CA87	115.7	15.7	15.7	74.8	-25.2	-25.2	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA88		CA88	115.7	15.7	15.7	76.9	-23.1	-23.1	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA89		CA89	115.7	15.7	15.7	79.3	-20.7	-20.7	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA90		CA90	115.7	15.7	15.7	79.9	-20.1	-20.1	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA91		CA91	115.7	15.7	15.7	86.1	-13.9	-13.9	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA92		CA92	115.7	15.7	15.7	87.8	-12.2	-12.2	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA93		CA93	115.7	15.7	15.7	82.0	-18.0	-18.0	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA94		CA94	115.7	15.7	15.7	90.0	-10.0	-10.0	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA95		CA95	115.7	15.7	15.7	87.8	-12.2	-12.2	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA96		CA96	115.7	15.7	15.7	82.7	-17.3	-17.3	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r
CA97		CA97	115.7	15.7	15.7	83.4	-16.6	-16.6	PWL-Pt	115.7		1.0	0.0	0.0	2				8	r

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
CA01	CA01	8.00	r			6475646.59	2302648.59	8.00	0.00
						6475985.96	2302613.85	8.00	0.00
						6476332.08	2302618.78	8.00	0.00
						6476332.40	2302618.78	8.00	0.00
						6476652.71	2302610.97	8.00	0.00
						6476654.03	2302610.85	8.00	0.00
						6476801.64	2302587.54	8.00	0.00
						6477511.06	2302595.34	8.00	0.00
						6477512.80	2302595.20	8.00	0.00
						6477514.48	2302594.76	8.00	0.00
						6477516.06	2302594.04	8.00	0.00
						6477517.50	2302593.05	8.00	0.00
						6477518.73	2302591.82	8.00	0.00
						6477519.74	2302590.41	8.00	0.00
						6477520.49	2302588.83	8.00	0.00
						6477520.95	2302587.16	8.00	0.00
						6477521.12	2302585.43	8.00	0.00
						6477520.98	2302583.69	8.00	0.00
						6477520.55	2302582.01	8.00	0.00
						6477519.83	2302580.42	8.00	0.00
						6477518.84	2302578.99	8.00	0.00
						6477517.62	2302577.75	8.00	0.00
						6477516.21	2302576.73	8.00	0.00
						6477514.64	2302575.98	8.00	0.00
						6477512.96	2302575.51	8.00	0.00
						6477511.23	2302575.34	8.00	0.00
						6476800.96	2302567.53	8.00	0.00
						6476799.35	2302567.66	8.00	0.00
						6476651.56	2302590.99	8.00	0.00
						6476332.10	2302598.78	8.00	0.00
						6475985.59	2302593.84	8.00	0.00
						6475984.50	2302593.90	8.00	0.00
						6475644.56	2302628.70	8.00	0.00
						6475642.84	2302629.03	8.00	0.00
						6475641.22	2302629.65	8.00	0.00
						6475639.72	2302630.54	8.00	0.00
						6475638.40	2302631.68	8.00	0.00
						6475637.30	2302633.03	8.00	0.00
						6475636.45	2302634.55	8.00	0.00
						6475635.88	2302636.20	8.00	0.00
						6475635.60	2302637.92	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6475635.63	2302639.66	8.00	0.00
						6475635.95	2302641.38	8.00	0.00
						6475636.58	2302643.01	8.00	0.00
						6475637.47	2302644.50	8.00	0.00
						6475638.61	2302645.82	8.00	0.00
						6475639.96	2302646.92	8.00	0.00
						6475641.48	2302647.77	8.00	0.00
						6475643.13	2302648.34	8.00	0.00
						6475644.85	2302648.62	8.00	0.00
CA02	CA02	8.00	r			6476651.60	2298846.33	8.00	0.00
						6476650.00	2298846.18	8.00	0.00
						6476648.40	2298846.29	8.00	0.00
						6476646.83	2298846.65	8.00	0.00
						6476645.34	2298847.26	8.00	0.00
						6476643.97	2298848.10	8.00	0.00
						6476642.75	2298849.15	8.00	0.00
						6476641.72	2298850.38	8.00	0.00
						6476640.90	2298851.76	8.00	0.00
						6476640.30	2298853.25	8.00	0.00
						6476639.96	2298854.82	8.00	0.00
						6476639.87	2298856.42	8.00	0.00
						6476642.47	2298963.19	8.00	0.00
						6476642.49	2298963.62	8.00	0.00
						6476650.30	2299080.80	8.00	0.00
						6476650.53	2299082.37	8.00	0.00
						6476651.01	2299083.88	8.00	0.00
						6476651.71	2299085.30	8.00	0.00
						6476652.64	2299086.58	8.00	0.00
						6476653.75	2299087.71	8.00	0.00
						6476655.03	2299088.65	8.00	0.00
						6476656.43	2299089.37	8.00	0.00
						6476657.94	2299089.86	8.00	0.00
						6476791.69	2299122.06	8.00	0.00
						6476819.57	2299390.77	8.00	0.00
						6476832.53	2299683.61	8.00	0.00
						6476780.65	2299966.39	8.00	0.00
						6476780.49	2299968.16	8.00	0.00
						6476780.49	2300074.93	8.00	0.00
						6476780.57	2300076.17	8.00	0.00
						6476788.38	2300138.67	8.00	0.00
						6476788.45	2300139.17	8.00	0.00
						6476788.72	2300140.28	8.00	0.00
						6476817.36	2300236.63	8.00	0.00
						6476817.55	2300237.20	8.00	0.00
						6476859.08	2300351.41	8.00	0.00
						6476892.70	2300472.96	8.00	0.00
						6476913.43	2300592.14	8.00	0.00
						6476947.24	2300821.03	8.00	0.00
						6476978.47	2301091.71	8.00	0.00
						6477012.33	2301380.78	8.00	0.00
						6477012.35	2301381.00	8.00	0.00
						6477053.99	2301680.23	8.00	0.00
						6477069.53	2301856.40	8.00	0.00
						6477064.38	2301974.98	8.00	0.00
						6477041.02	2302125.48	8.00	0.00
						6477040.91	2302127.01	8.00	0.00
						6477041.03	2302128.59	8.00	0.00
						6477051.46	2302193.78	8.00	0.00
						6477051.92	2302195.54	8.00	0.00
						6477052.04	2302195.83	8.00	0.00
						6477088.39	2302286.72	8.00	0.00
						6477152.88	2302477.61	8.00	0.00
						6477152.78	2302581.51	8.00	0.00
						6477152.93	2302583.24	8.00	0.00
						6477153.38	2302584.93	8.00	0.00
						6477154.12	2302586.51	8.00	0.00
						6477155.12	2302587.94	8.00	0.00
						6477156.35	2302589.17	8.00	0.00
						6477157.78	2302590.17	8.00	0.00
						6477159.36	2302590.91	8.00	0.00
						6477161.04	2302591.36	8.00	0.00
						6477162.78	2302591.51	8.00	0.00
						6477164.51	2302591.36	8.00	0.00
						6477166.20	2302590.91	8.00	0.00
						6477167.78	2302590.18	8.00	0.00
						6477169.20	2302589.18	8.00	0.00
						6477170.44	2302587.95	8.00	0.00

Name	ID	Height			Coordinates			
		Begin		End	x	y	z	Ground
		(ft)		(ft)	(ft)	(ft)	(ft)	(ft)
					6477171.44	2302586.52	8.00	0.00
					6477172.18	2302584.94	8.00	0.00
					6477172.63	2302583.26	8.00	0.00
					6477172.78	2302581.52	8.00	0.00
					6477172.88	2302475.98	8.00	0.00
					6477172.73	2302474.23	8.00	0.00
					6477172.36	2302472.77	8.00	0.00
					6477107.25	2302280.06	8.00	0.00
					6477107.18	2302279.84	8.00	0.00
					6477107.06	2302279.55	8.00	0.00
					6477071.02	2302189.44	8.00	0.00
					6477061.03	2302126.99	8.00	0.00
					6477084.22	2301977.50	8.00	0.00
					6477084.33	2301976.41	8.00	0.00
					6477089.54	2301856.61	8.00	0.00
					6477089.55	2301856.18	8.00	0.00
					6477089.51	2301855.30	8.00	0.00
					6477073.89	2301678.22	8.00	0.00
					6477073.83	2301677.72	8.00	0.00
					6477032.18	2301378.35	8.00	0.00
					6476998.34	2301089.40	8.00	0.00
					6476967.09	2300818.58	8.00	0.00
					6476967.05	2300818.26	8.00	0.00
					6476933.19	2300589.09	8.00	0.00
					6476933.15	2300588.84	8.00	0.00
					6476912.32	2300469.04	8.00	0.00
					6476912.11	2300468.10	8.00	0.00
					6476878.25	2300345.70	8.00	0.00
					6476878.01	2300344.95	8.00	0.00
					6476836.45	2300230.65	8.00	0.00
					6476808.12	2300135.37	8.00	0.00
					6476800.49	2300074.31	8.00	0.00
					6476800.49	2299969.07	8.00	0.00
					6476852.41	2299686.08	8.00	0.00
					6476852.57	2299684.30	8.00	0.00
					6476852.56	2299683.86	8.00	0.00
					6476839.54	2299389.59	8.00	0.00
					6476839.50	2299389.00	8.00	0.00
					6476810.85	2299112.96	8.00	0.00
					6476810.58	2299111.45	8.00	0.00
					6476810.07	2299110.00	8.00	0.00
					6476809.35	2299108.64	8.00	0.00
					6476808.43	2299107.41	8.00	0.00
					6476807.33	2299106.33	8.00	0.00
					6476806.08	2299105.44	8.00	0.00
					6476804.71	2299104.74	8.00	0.00
					6476803.25	2299104.27	8.00	0.00
					6476669.77	2299072.14	8.00	0.00
					6476662.46	2298962.50	8.00	0.00
					6476659.86	2298855.94	8.00	0.00
					6476659.67	2298854.23	8.00	0.00
					6476659.20	2298852.59	8.00	0.00
					6476658.45	2298851.05	8.00	0.00
					6476657.44	2298849.66	8.00	0.00
					6476656.22	2298848.46	8.00	0.00
					6476654.81	2298847.49	8.00	0.00
					6476653.25	2298846.77	8.00	0.00
CA03	CA03	8.00	r		6477345.85	2299108.51	8.00	0.00
					6477317.20	2299087.68	8.00	0.00
					6477315.92	2299086.88	8.00	0.00
					6477314.52	2299086.29	8.00	0.00
					6477313.05	2299085.91	8.00	0.00
					6477311.55	2299085.77	8.00	0.00
					6476850.61	2299075.35	8.00	0.00
					6476849.25	2299075.41	8.00	0.00
					6476847.90	2299075.66	8.00	0.00
					6476846.61	2299076.09	8.00	0.00
					6476845.38	2299076.69	8.00	0.00
					6476795.89	2299105.34	8.00	0.00
					6476794.47	2299106.34	8.00	0.00
					6476793.24	2299107.57	8.00	0.00
					6476792.24	2299109.00	8.00	0.00
					6476791.50	2299110.58	8.00	0.00
					6476791.06	2299112.27	8.00	0.00
					6476790.91	2299114.00	8.00	0.00
					6476791.06	2299115.74	8.00	0.00
					6476791.51	2299117.42	8.00	0.00

Name	ID	Height			Coordinates			
		Begin		End	x	y	z	Ground
		(ft)		(ft)	(ft)	(ft)	(ft)	(ft)
					6476792.25	2299119.00	8.00	0.00
					6476793.25	2299120.43	8.00	0.00
					6476794.48	2299121.66	8.00	0.00
					6476795.91	2299122.66	8.00	0.00
					6476797.49	2299123.39	8.00	0.00
					6476799.18	2299123.84	8.00	0.00
					6476800.91	2299123.99	8.00	0.00
					6476802.65	2299123.84	8.00	0.00
					6476804.33	2299123.39	8.00	0.00
					6476805.91	2299122.65	8.00	0.00
					6476852.96	2299095.41	8.00	0.00
					6477307.97	2299105.69	8.00	0.00
					6477329.97	2299121.69	8.00	0.00
					6477329.97	2299624.28	8.00	0.00
					6477322.21	2299934.77	8.00	0.00
					6477248.07	2300111.15	8.00	0.00
					6477176.84	2300190.02	8.00	0.00
					6477100.22	2300251.31	8.00	0.00
					6477021.16	2300289.57	8.00	0.00
					6476865.59	2300338.83	8.00	0.00
					6476864.07	2300339.46	8.00	0.00
					6476862.66	2300340.33	8.00	0.00
					6476861.42	2300341.42	8.00	0.00
					6476860.38	2300342.70	8.00	0.00
					6476859.55	2300344.13	8.00	0.00
					6476858.98	2300345.68	8.00	0.00
					6476858.67	2300347.30	8.00	0.00
					6476858.63	2300348.95	8.00	0.00
					6476858.86	2300350.59	8.00	0.00
					6476859.36	2300352.16	8.00	0.00
					6476860.11	2300353.63	8.00	0.00
					6476861.10	2300354.96	8.00	0.00
					6476862.28	2300356.11	8.00	0.00
					6476863.64	2300357.05	8.00	0.00
					6476865.14	2300357.74	8.00	0.00
					6476866.73	2300358.19	8.00	0.00
					6476868.37	2300358.36	8.00	0.00
					6476870.02	2300358.27	8.00	0.00
					6476871.63	2300357.90	8.00	0.00
					6477027.88	2300308.42	8.00	0.00
					6477028.28	2300308.29	8.00	0.00
					6477029.22	2300307.89	8.00	0.00
					6477109.95	2300268.83	8.00	0.00
					6477110.59	2300268.49	8.00	0.00
					6477111.84	2300267.63	8.00	0.00
					6477189.96	2300205.13	8.00	0.00
					6477190.15	2300204.99	8.00	0.00
					6477191.14	2300204.03	8.00	0.00
					6477264.06	2300123.30	8.00	0.00
					6477265.07	2300121.96	8.00	0.00
					6477265.85	2300120.47	8.00	0.00
					6477341.37	2299940.78	8.00	0.00
					6477341.78	2299939.61	8.00	0.00
					6477342.04	2299938.40	8.00	0.00
					6477342.15	2299937.16	8.00	0.00
					6477349.96	2299624.66	8.00	0.00
					6477349.97	2299624.41	8.00	0.00
					6477349.97	2299116.60	8.00	0.00
					6477349.84	2299115.03	8.00	0.00
					6477349.48	2299113.51	8.00	0.00
					6477348.88	2299112.06	8.00	0.00
					6477348.06	2299110.72	8.00	0.00
					6477347.04	2299109.53	8.00	0.00
CA04	CA04	8.00	r		6477107.33	2300249.98	8.00	0.00
					6477105.70	2300249.83	8.00	0.00
					6477104.07	2300249.94	8.00	0.00
					6477102.48	2300250.32	8.00	0.00
					6477100.97	2300250.96	8.00	0.00
					6477099.59	2300251.83	8.00	0.00
					6477098.36	2300252.92	8.00	0.00
					6477097.33	2300254.19	8.00	0.00
					6477096.52	2300255.61	8.00	0.00
					6477095.96	2300257.15	8.00	0.00
					6477095.65	2300258.75	8.00	0.00
					6477095.61	2300260.39	8.00	0.00
					6477095.83	2300262.01	8.00	0.00
					6477096.32	2300263.57	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6477097.05	2300265.03	8.00	0.00
						6477160.96	2300369.84	8.00	0.00
						6477173.77	2300503.02	8.00	0.00
						6477205.01	2300799.78	8.00	0.00
						6477222.56	2301040.55	8.00	0.00
						6476986.70	2301080.70	8.00	0.00
						6476985.01	2301081.15	8.00	0.00
						6476983.43	2301081.88	8.00	0.00
						6476982.00	2301082.87	8.00	0.00
						6476980.77	2301084.10	8.00	0.00
						6476979.76	2301085.52	8.00	0.00
						6476979.02	2301087.10	8.00	0.00
						6476978.56	2301088.78	8.00	0.00
						6476978.41	2301090.51	8.00	0.00
						6476978.55	2301092.25	8.00	0.00
						6476978.99	2301093.93	8.00	0.00
						6476979.72	2301095.51	8.00	0.00
						6476980.71	2301096.94	8.00	0.00
						6476981.94	2301098.18	8.00	0.00
						6476983.36	2301099.19	8.00	0.00
						6476984.93	2301099.93	8.00	0.00
						6476986.61	2301100.39	8.00	0.00
						6476988.35	2301100.55	8.00	0.00
						6476990.08	2301100.41	8.00	0.00
						6477234.90	2301058.74	8.00	0.00
						6477236.49	2301058.33	8.00	0.00
						6477237.98	2301057.67	8.00	0.00
						6477239.35	2301056.77	8.00	0.00
						6477240.55	2301055.67	8.00	0.00
						6477241.55	2301054.38	8.00	0.00
						6477242.34	2301052.95	8.00	0.00
						6477242.88	2301051.40	8.00	0.00
						6477243.16	2301049.79	8.00	0.00
						6477243.17	2301048.16	8.00	0.00
						6477224.94	2300798.16	8.00	0.00
						6477224.91	2300797.84	8.00	0.00
						6477193.67	2300501.01	8.00	0.00
						6477180.65	2300365.64	8.00	0.00
						6477180.39	2300364.16	8.00	0.00
						6477179.92	2300362.73	8.00	0.00
						6477179.23	2300361.39	8.00	0.00
						6477114.13	2300254.62	8.00	0.00
						6477113.13	2300253.25	8.00	0.00
						6477111.91	2300252.07	8.00	0.00
						6477110.51	2300251.12	8.00	0.00
						6477108.97	2300250.41	8.00	0.00
CA05	CA05	8.00	r			6477323.47	2300778.62	8.00	0.00
						6477321.74	2300778.47	8.00	0.00
						6477320.77	2300778.52	8.00	0.00
						6477214.00	2300788.94	8.00	0.00
						6477212.28	2300789.26	8.00	0.00
						6477210.65	2300789.87	8.00	0.00
						6477209.15	2300790.75	8.00	0.00
						6477207.83	2300791.89	8.00	0.00
						6477206.72	2300793.23	8.00	0.00
						6477205.86	2300794.75	8.00	0.00
						6477205.28	2300796.40	8.00	0.00
						6477205.00	2300798.12	8.00	0.00
						6477205.01	2300799.86	8.00	0.00
						6477205.33	2300801.57	8.00	0.00
						6477205.95	2300803.20	8.00	0.00
						6477206.83	2300804.71	8.00	0.00
						6477207.97	2300806.03	8.00	0.00
						6477209.31	2300807.14	8.00	0.00
						6477210.83	2300807.99	8.00	0.00
						6477212.48	2300808.57	8.00	0.00
						6477214.20	2300808.86	8.00	0.00
						6477215.94	2300808.84	8.00	0.00
						6477322.71	2300798.42	8.00	0.00
						6477324.37	2300798.12	8.00	0.00
						6477325.95	2300797.54	8.00	0.00
						6477327.42	2300796.70	8.00	0.00
						6477328.72	2300795.63	8.00	0.00
						6477329.82	2300794.36	8.00	0.00
						6477330.70	2300792.92	8.00	0.00
						6477331.32	2300791.35	8.00	0.00
						6477331.66	2300789.70	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6477331.73	2300788.01	8.00	0.00
						6477331.51	2300786.34	8.00	0.00
						6477331.01	2300784.73	8.00	0.00
						6477330.25	2300783.23	8.00	0.00
						6477329.25	2300781.87	8.00	0.00
						6477328.03	2300780.70	8.00	0.00
						6477326.64	2300779.75	8.00	0.00
						6477325.10	2300779.06	8.00	0.00
CA06	CA06	8.00	r			6477328.68	2300479.14	8.00	0.00
						6477326.95	2300478.99	8.00	0.00
						6477326.04	2300479.03	8.00	0.00
						6477182.81	2300492.05	8.00	0.00
						6477181.19	2300492.34	8.00	0.00
						6477179.63	2300492.89	8.00	0.00
						6477178.18	2300493.69	8.00	0.00
						6477176.89	2300494.71	8.00	0.00
						6477175.78	2300495.93	8.00	0.00
						6477174.89	2300497.32	8.00	0.00
						6477174.23	2300498.84	8.00	0.00
						6477173.84	2300500.45	8.00	0.00
						6477173.72	2300502.09	8.00	0.00
						6477173.87	2300503.74	8.00	0.00
						6477174.29	2300505.34	8.00	0.00
						6477174.96	2300506.84	8.00	0.00
						6477175.88	2300508.22	8.00	0.00
						6477177.00	2300509.42	8.00	0.00
						6477178.32	2300510.43	8.00	0.00
						6477179.77	2300511.20	8.00	0.00
						6477181.34	2300511.73	8.00	0.00
						6477182.97	2300511.99	8.00	0.00
						6477184.62	2300511.97	8.00	0.00
						6477327.85	2300498.95	8.00	0.00
						6477329.52	2300498.66	8.00	0.00
						6477331.11	2300498.09	8.00	0.00
						6477332.58	2300497.26	8.00	0.00
						6477333.89	2300496.19	8.00	0.00
						6477335.00	2300494.92	8.00	0.00
						6477335.89	2300493.48	8.00	0.00
						6477336.51	2300491.91	8.00	0.00
						6477336.87	2300490.25	8.00	0.00
						6477336.94	2300488.57	8.00	0.00
						6477336.72	2300486.89	8.00	0.00
						6477336.23	2300485.27	8.00	0.00
						6477335.47	2300483.76	8.00	0.00
						6477334.47	2300482.40	8.00	0.00
						6477333.25	2300481.23	8.00	0.00
						6477331.85	2300480.28	8.00	0.00
						6477330.32	2300479.58	8.00	0.00
CA07	CA07	8.00	r			6477307.85	2301338.52	8.00	0.00
						6477306.11	2301338.37	8.00	0.00
						6477305.02	2301338.43	8.00	0.00
						6477021.16	2301369.68	8.00	0.00
						6477019.46	2301370.02	8.00	0.00
						6477017.83	2301370.65	8.00	0.00
						6477016.34	2301371.56	8.00	0.00
						6477015.03	2301372.71	8.00	0.00
						6477013.94	2301374.07	8.00	0.00
						6477013.10	2301375.59	8.00	0.00
						6477012.54	2301377.25	8.00	0.00
						6477012.28	2301378.97	8.00	0.00
						6477012.32	2301380.71	8.00	0.00
						6477012.66	2301382.42	8.00	0.00
						6477013.29	2301384.05	8.00	0.00
						6477014.20	2301385.53	8.00	0.00
						6477015.35	2301386.84	8.00	0.00
						6477016.71	2301387.94	8.00	0.00
						6477018.24	2301388.77	8.00	0.00
						6477019.89	2301389.33	8.00	0.00
						6477021.61	2301389.60	8.00	0.00
						6477023.35	2301389.56	8.00	0.00
						6477307.21	2301358.31	8.00	0.00
						6477308.86	2301357.98	8.00	0.00
						6477310.43	2301357.39	8.00	0.00
						6477311.87	2301356.54	8.00	0.00
						6477313.16	2301355.46	8.00	0.00
						6477314.25	2301354.18	8.00	0.00
						6477315.11	2301352.74	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6477315.71	2301351.17	8.00	0.00
						6477316.05	2301349.53	8.00	0.00
						6477316.10	2301347.85	8.00	0.00
						6477315.87	2301346.19	8.00	0.00
						6477315.37	2301344.59	8.00	0.00
						6477314.61	2301343.09	8.00	0.00
						6477313.61	2301341.74	8.00	0.00
						6477312.39	2301340.58	8.00	0.00
						6477311.00	2301339.64	8.00	0.00
						6477309.47	2301338.95	8.00	0.00
CA08	CA08	8.00	r			6477307.85	2301653.62	8.00	0.00
						6477306.11	2301653.47	8.00	0.00
						6477305.47	2301653.49	8.00	0.00
						6477063.28	2301669.12	8.00	0.00
						6477061.65	2301669.36	8.00	0.00
						6477060.08	2301669.87	8.00	0.00
						6477058.61	2301670.63	8.00	0.00
						6477057.29	2301671.62	8.00	0.00
						6477056.15	2301672.81	8.00	0.00
						6477055.22	2301674.18	8.00	0.00
						6477054.53	2301675.68	8.00	0.00
						6477054.09	2301677.27	8.00	0.00
						6477053.93	2301678.91	8.00	0.00
						6477054.03	2301680.56	8.00	0.00
						6477054.41	2301682.17	8.00	0.00
						6477055.05	2301683.69	8.00	0.00
						6477055.92	2301685.09	8.00	0.00
						6477057.02	2301686.33	8.00	0.00
						6477058.30	2301687.37	8.00	0.00
						6477059.74	2301688.18	8.00	0.00
						6477061.29	2301688.74	8.00	0.00
						6477062.92	2301689.05	8.00	0.00
						6477064.57	2301689.08	8.00	0.00
						6477306.76	2301673.45	8.00	0.00
						6477308.44	2301673.20	8.00	0.00
						6477310.06	2301672.66	8.00	0.00
						6477311.57	2301671.85	8.00	0.00
						6477312.91	2301670.81	8.00	0.00
						6477314.06	2301669.54	8.00	0.00
						6477314.97	2301668.11	8.00	0.00
						6477315.63	2301666.53	8.00	0.00
						6477316.01	2301664.87	8.00	0.00
						6477316.11	2301663.17	8.00	0.00
						6477315.91	2301661.47	8.00	0.00
						6477315.43	2301659.84	8.00	0.00
						6477314.68	2301658.31	8.00	0.00
						6477313.68	2301656.93	8.00	0.00
						6477312.45	2301655.74	8.00	0.00
						6477311.05	2301654.77	8.00	0.00
						6477309.50	2301654.06	8.00	0.00
CA09	CA09	8.00	r			6477301.02	2301968.58	8.00	0.00
						6477074.40	2301965.97	8.00	0.00
						6477072.67	2301966.11	8.00	0.00
						6477070.98	2301966.55	8.00	0.00
						6477069.40	2301967.28	8.00	0.00
						6477067.97	2301968.27	8.00	0.00
						6477066.73	2301969.49	8.00	0.00
						6477065.72	2301970.91	8.00	0.00
						6477064.97	2301972.48	8.00	0.00
						6477064.51	2301974.15	8.00	0.00
						6477064.34	2301975.89	8.00	0.00
						6477064.48	2301977.62	8.00	0.00
						6477064.91	2301979.30	8.00	0.00
						6477065.63	2301980.89	8.00	0.00
						6477066.62	2301982.32	8.00	0.00
						6477067.84	2301983.57	8.00	0.00
						6477069.25	2301984.58	8.00	0.00
						6477070.82	2301985.33	8.00	0.00
						6477072.50	2301985.80	8.00	0.00
						6477074.23	2301985.97	8.00	0.00
						6477300.85	2301988.58	8.00	0.00
						6477302.58	2301988.43	8.00	0.00
						6477304.27	2301987.99	8.00	0.00
						6477305.85	2301987.27	8.00	0.00
						6477307.28	2301986.28	8.00	0.00
						6477308.52	2301985.06	8.00	0.00
						6477309.53	2301983.64	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6477310.27	2301982.07	8.00	0.00
						6477310.74	2301980.39	8.00	0.00
						6477310.90	2301978.66	8.00	0.00
						6477310.77	2301976.93	8.00	0.00
						6477310.33	2301975.24	8.00	0.00
						6477309.61	2301973.66	8.00	0.00
						6477308.63	2301972.22	8.00	0.00
						6477307.41	2301970.98	8.00	0.00
						6477306.00	2301969.97	8.00	0.00
						6477304.43	2301969.22	8.00	0.00
						6477302.75	2301968.75	8.00	0.00
CA10	CA10	8.00	r			6477300.04	2302268.21	8.00	0.00
						6477298.30	2302268.05	8.00	0.00
						6477298.04	2302268.06	8.00	0.00
						6477097.52	2302273.27	8.00	0.00
						6477095.79	2302273.46	8.00	0.00
						6477094.12	2302273.96	8.00	0.00
						6477092.56	2302274.74	8.00	0.00
						6477091.16	2302275.77	8.00	0.00
						6477089.96	2302277.04	8.00	0.00
						6477088.99	2302278.49	8.00	0.00
						6477088.30	2302280.09	8.00	0.00
						6477087.89	2302281.78	8.00	0.00
						6477087.78	2302283.52	8.00	0.00
						6477087.98	2302285.25	8.00	0.00
						6477088.48	2302286.93	8.00	0.00
						6477089.25	2302288.49	8.00	0.00
						6477090.29	2302289.89	8.00	0.00
						6477091.55	2302291.09	8.00	0.00
						6477093.01	2302292.05	8.00	0.00
						6477094.61	2302292.75	8.00	0.00
						6477096.30	2302293.15	8.00	0.00
						6477098.04	2302293.26	8.00	0.00
						6477298.56	2302288.05	8.00	0.00
						6477300.28	2302287.86	8.00	0.00
						6477301.94	2302287.37	8.00	0.00
						6477303.48	2302286.61	8.00	0.00
						6477304.88	2302285.59	8.00	0.00
						6477306.08	2302284.34	8.00	0.00
						6477307.04	2302282.91	8.00	0.00
						6477307.75	2302281.33	8.00	0.00
						6477308.17	2302279.66	8.00	0.00
						6477308.30	2302277.93	8.00	0.00
						6477308.13	2302276.21	8.00	0.00
						6477307.67	2302274.55	8.00	0.00
						6477306.92	2302272.99	8.00	0.00
						6477305.92	2302271.58	8.00	0.00
						6477304.69	2302270.36	8.00	0.00
						6477303.27	2302269.38	8.00	0.00
						6477301.71	2302268.65	8.00	0.00
CA11	CA11	8.00	r			6476654.20	2302591.12	8.00	0.00
						6476652.58	2302590.97	8.00	0.00
						6476650.96	2302591.09	8.00	0.00
						6476649.37	2302591.46	8.00	0.00
						6476647.87	2302592.09	8.00	0.00
						6476646.49	2302592.96	8.00	0.00
						6476645.27	2302594.03	8.00	0.00
						6476644.23	2302595.29	8.00	0.00
						6476643.42	2302596.71	8.00	0.00
						6476642.85	2302598.23	8.00	0.00
						6476642.53	2302599.83	8.00	0.00
						6476642.48	2302601.46	8.00	0.00
						6476647.69	2302708.23	8.00	0.00
						6476647.83	2302709.48	8.00	0.00
						6476648.22	2302710.99	8.00	0.00
						6476676.89	2302794.41	8.00	0.00
						6476677.06	2302794.84	8.00	0.00
						6476710.91	2302878.17	8.00	0.00
						6476711.52	2302879.41	8.00	0.00
						6476711.80	2302879.87	8.00	0.00
						6476750.86	2302939.77	8.00	0.00
						6476751.87	2302941.06	8.00	0.00
						6476753.07	2302942.18	8.00	0.00
						6476849.42	2303017.70	8.00	0.00
						6476850.59	2303018.49	8.00	0.00
						6476851.38	2303018.90	8.00	0.00
						6476924.30	2303052.75	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6476925.09	2303053.08	8.00	0.00
						6476925.35	2303053.17	8.00	0.00
						6476987.85	2303074.00	8.00	0.00
						6476989.28	2303074.36	8.00	0.00
						6477107.05	2303094.84	8.00	0.00
						6477180.58	2303143.02	8.00	0.00
						6477256.24	2303199.76	8.00	0.00
						6477165.20	2303342.47	8.00	0.00
						6477104.12	2303416.28	8.00	0.00
						6476985.68	2303490.95	8.00	0.00
						6476984.29	2303492.00	8.00	0.00
						6476983.10	2303493.28	8.00	0.00
						6476982.16	2303494.75	8.00	0.00
						6476981.49	2303496.36	8.00	0.00
						6476981.10	2303498.06	8.00	0.00
						6476981.02	2303499.80	8.00	0.00
						6476981.24	2303501.53	8.00	0.00
						6476981.75	2303503.19	8.00	0.00
						6476982.55	2303504.74	8.00	0.00
						6476983.60	2303506.13	8.00	0.00
						6476984.88	2303507.31	8.00	0.00
						6476986.35	2303508.26	8.00	0.00
						6476987.96	2303508.93	8.00	0.00
						6476989.66	2303509.32	8.00	0.00
						6476991.40	2303509.40	8.00	0.00
						6476993.13	2303509.18	8.00	0.00
						6476994.79	2303508.67	8.00	0.00
						6476996.34	2303507.87	8.00	0.00
						6477116.13	2303432.35	8.00	0.00
						6477117.23	2303431.55	8.00	0.00
						6477118.48	2303430.29	8.00	0.00
						6477181.00	2303354.74	8.00	0.00
						6477181.73	2303353.75	8.00	0.00
						6477278.09	2303202.70	8.00	0.00
						6477278.86	2303201.24	8.00	0.00
						6477279.38	2303199.66	8.00	0.00
						6477279.63	2303198.02	8.00	0.00
						6477279.61	2303196.36	8.00	0.00
						6477279.31	2303194.73	8.00	0.00
						6477278.75	2303193.17	8.00	0.00
						6477277.94	2303191.72	8.00	0.00
						6477276.90	2303190.43	8.00	0.00
						6477275.66	2303189.33	8.00	0.00
						6477192.32	2303126.83	8.00	0.00
						6477191.80	2303126.46	8.00	0.00
						6477116.28	2303076.98	8.00	0.00
						6477115.10	2303076.32	8.00	0.00
						6477113.84	2303075.82	8.00	0.00
						6477112.53	2303075.50	8.00	0.00
						6476993.46	2303054.79	8.00	0.00
						6476932.21	2303034.37	8.00	0.00
						6476860.85	2303001.24	8.00	0.00
						6476766.71	2302927.46	8.00	0.00
						6476729.08	2302869.75	8.00	0.00
						6476695.69	2302787.57	8.00	0.00
						6476667.59	2302705.84	8.00	0.00
						6476662.46	2302600.48	8.00	0.00
						6476662.23	2302598.82	8.00	0.00
						6476661.73	2302597.21	8.00	0.00
						6476660.97	2302595.71	8.00	0.00
						6476659.97	2302594.36	8.00	0.00
						6476658.75	2302593.19	8.00	0.00
						6476657.36	2302592.25	8.00	0.00
						6476655.83	2302591.55	8.00	0.00
CA12	CA12	8.00	r			6476984.93	2303052.06	8.00	0.00
						6476983.34	2303051.91	8.00	0.00
						6476981.75	2303052.01	8.00	0.00
						6476980.19	2303052.37	8.00	0.00
						6476978.71	2303052.97	8.00	0.00
						6476977.34	2303053.80	8.00	0.00
						6476976.12	2303054.84	8.00	0.00
						6476975.09	2303056.06	8.00	0.00
						6476974.26	2303057.43	8.00	0.00
						6476973.66	2303058.91	8.00	0.00
						6476973.30	2303060.47	8.00	0.00
						6476955.07	2303185.47	8.00	0.00
						6476954.97	2303187.11	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6476955.14	2303188.76	8.00	0.00
						6476955.58	2303190.35	8.00	0.00
						6476956.27	2303191.85	8.00	0.00
						6476957.20	2303193.21	8.00	0.00
						6476958.35	2303194.40	8.00	0.00
						6476959.67	2303195.39	8.00	0.00
						6476961.14	2303196.15	8.00	0.00
						6476962.71	2303196.65	8.00	0.00
						6476964.35	2303196.89	8.00	0.00
						6476966.00	2303196.86	8.00	0.00
						6476967.62	2303196.55	8.00	0.00
						6476969.17	2303195.98	8.00	0.00
						6476970.61	2303195.17	8.00	0.00
						6476971.89	2303194.13	8.00	0.00
						6476972.98	2303192.89	8.00	0.00
						6476973.86	2303191.49	8.00	0.00
						6476974.49	2303189.96	8.00	0.00
						6476974.86	2303188.35	8.00	0.00
						6476993.09	2303063.35	8.00	0.00
						6476993.19	2303061.64	8.00	0.00
						6476993.00	2303059.95	8.00	0.00
						6476992.52	2303058.30	8.00	0.00
						6476991.77	2303056.77	8.00	0.00
						6476990.77	2303055.38	8.00	0.00
						6476989.55	2303054.19	8.00	0.00
						6476988.14	2303053.22	8.00	0.00
						6476986.59	2303052.50	8.00	0.00
CA13	CA13	8.00	r			6476870.35	2302817.69	8.00	0.00
						6476868.78	2302817.54	8.00	0.00
						6476867.20	2302817.63	8.00	0.00
						6476865.66	2302817.98	8.00	0.00
						6476864.20	2302818.56	8.00	0.00
						6476862.84	2302819.37	8.00	0.00
						6476861.63	2302820.38	8.00	0.00
						6476752.25	2302927.15	8.00	0.00
						6476751.12	2302928.47	8.00	0.00
						6476750.23	2302929.97	8.00	0.00
						6476749.61	2302931.60	8.00	0.00
						6476749.29	2302933.31	8.00	0.00
						6476749.27	2302935.06	8.00	0.00
						6476749.55	2302936.78	8.00	0.00
						6476750.13	2302938.42	8.00	0.00
						6476750.98	2302939.94	8.00	0.00
						6476752.08	2302941.29	8.00	0.00
						6476753.40	2302942.43	8.00	0.00
						6476754.90	2302943.32	8.00	0.00
						6476756.53	2302943.93	8.00	0.00
						6476758.25	2302944.26	8.00	0.00
						6476759.99	2302944.28	8.00	0.00
						6476761.71	2302943.99	8.00	0.00
						6476763.36	2302943.42	8.00	0.00
						6476764.88	2302942.56	8.00	0.00
						6476766.22	2302941.46	8.00	0.00
						6476875.60	2302834.69	8.00	0.00
						6476876.70	2302833.41	8.00	0.00
						6476877.57	2302831.97	8.00	0.00
						6476878.19	2302830.40	8.00	0.00
						6476878.54	2302828.76	8.00	0.00
						6476878.60	2302827.07	8.00	0.00
						6476878.38	2302825.40	8.00	0.00
						6476877.89	2302823.79	8.00	0.00
						6476877.13	2302822.29	8.00	0.00
						6476876.12	2302820.93	8.00	0.00
						6476874.91	2302819.76	8.00	0.00
						6476873.51	2302818.82	8.00	0.00
						6476871.98	2302818.12	8.00	0.00
CA14	CA14	8.00	r			6475682.98	2301896.37	8.00	0.00
						6475766.31	2301854.71	8.00	0.00
						6475767.79	2301853.80	8.00	0.00
						6475769.09	2301852.65	8.00	0.00
						6475818.57	2301800.57	8.00	0.00
						6475818.98	2301800.11	8.00	0.00
						6475819.87	2301798.87	8.00	0.00
						6475864.14	2301725.95	8.00	0.00
						6475864.81	2301724.64	8.00	0.00
						6475865.28	2301723.25	8.00	0.00
						6475891.32	2301621.68	8.00	0.00

Name	ID	Height		Coordinates			
		Begin	End	x	y	z	Ground
		(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
				6475891.48	2301620.94	8.00	0.00
				6475891.63	2301619.20	8.00	0.00
				6475891.63	2301538.47	8.00	0.00
				6475891.55	2301537.21	8.00	0.00
				6475891.31	2301535.96	8.00	0.00
				6475890.92	2301534.76	8.00	0.00
				6475849.25	2301430.59	8.00	0.00
				6475848.89	2301429.79	8.00	0.00
				6475744.72	2301224.06	8.00	0.00
				6475744.43	2301223.53	8.00	0.00
				6475635.15	2301038.78	8.00	0.00
				6475505.70	2300795.28	8.00	0.00
				6475504.81	2300793.89	8.00	0.00
				6475503.70	2300792.67	8.00	0.00
				6475502.40	2300791.64	8.00	0.00
				6475500.95	2300790.85	8.00	0.00
				6475499.40	2300790.30	8.00	0.00
				6475497.77	2300790.01	8.00	0.00
				6475496.12	2300790.00	8.00	0.00
				6475494.49	2300790.26	8.00	0.00
				6475492.92	2300790.79	8.00	0.00
				6475491.46	2300791.56	8.00	0.00
				6475490.15	2300792.57	8.00	0.00
				6475489.02	2300793.77	8.00	0.00
				6475488.11	2300795.15	8.00	0.00
				6475487.43	2300796.66	8.00	0.00
				6475487.02	2300798.25	8.00	0.00
				6475486.87	2300799.90	8.00	0.00
				6475486.99	2300801.55	8.00	0.00
				6475487.39	2300803.15	8.00	0.00
				6475488.04	2300804.67	8.00	0.00
				6475617.60	2301048.37	8.00	0.00
				6475617.79	2301048.73	8.00	0.00
				6475727.03	2301233.39	8.00	0.00
				6475830.85	2301438.43	8.00	0.00
				6475871.63	2301540.40	8.00	0.00
				6475871.63	2301617.94	8.00	0.00
				6475846.27	2301716.84	8.00	0.00
				6475803.33	2301787.57	8.00	0.00
				6475755.80	2301837.60	8.00	0.00
				6475675.59	2301877.71	8.00	0.00
				6475612.66	2301885.26	8.00	0.00
				6475528.26	2301887.82	8.00	0.00
				6475476.60	2301877.98	8.00	0.00
				6475411.18	2301835.21	8.00	0.00
				6475337.98	2301769.58	8.00	0.00
				6475213.85	2301456.66	8.00	0.00
				6475213.72	2301456.36	8.00	0.00
				6475091.56	2301175.65	8.00	0.00
				6475052.67	2301046.01	8.00	0.00
				6475052.51	2301045.52	8.00	0.00
				6475039.85	2301010.07	8.00	0.00
				6475032.17	2300951.21	8.00	0.00
				6475025.01	2300898.45	8.00	0.00
				6475024.62	2300896.75	8.00	0.00
				6475023.95	2300895.15	8.00	0.00
				6475023.01	2300893.68	8.00	0.00
				6475021.82	2300892.40	8.00	0.00
				6475020.44	2300891.34	8.00	0.00
				6475018.89	2300890.55	8.00	0.00
				6475017.22	2300890.03	8.00	0.00
				6475015.49	2300889.81	8.00	0.00
				6475013.75	2300889.89	8.00	0.00
				6475012.05	2300890.27	8.00	0.00
				6475010.44	2300890.95	8.00	0.00
				6475008.98	2300891.89	8.00	0.00
				6475007.70	2300893.07	8.00	0.00
				6475006.64	2300894.46	8.00	0.00
				6475005.84	2300896.01	8.00	0.00
				6475005.33	2300897.67	8.00	0.00
				6475005.11	2300899.40	8.00	0.00
				6475005.19	2300901.15	8.00	0.00
				6475012.35	2300953.85	8.00	0.00
				6475020.16	2301013.72	8.00	0.00
				6475020.22	2301014.17	8.00	0.00
				6475020.65	2301015.79	8.00	0.00
				6475033.59	2301052.01	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6475072.58	2301181.97	8.00	0.00
						6475072.76	2301182.52	8.00	0.00
						6475072.99	2301183.09	8.00	0.00
						6475195.32	2301464.19	8.00	0.00
						6475320.26	2301779.14	8.00	0.00
						6475320.93	2301780.52	8.00	0.00
						6475321.81	2301781.78	8.00	0.00
						6475322.88	2301782.90	8.00	0.00
						6475398.40	2301850.60	8.00	0.00
						6475398.64	2301850.82	8.00	0.00
						6475399.60	2301851.53	8.00	0.00
						6475467.31	2301895.80	8.00	0.00
						6475468.44	2301896.44	8.00	0.00
						6475469.65	2301896.93	8.00	0.00
						6475470.91	2301897.25	8.00	0.00
						6475525.66	2301907.68	8.00	0.00
						6475527.47	2301907.85	8.00	0.00
						6475527.77	2301907.84	8.00	0.00
						6475613.71	2301905.24	8.00	0.00
						6475614.60	2301905.17	8.00	0.00
						6475679.70	2301897.36	8.00	0.00
						6475681.38	2301897.01	8.00	0.00
CA15	CA15	8.00	r			6475486.57	2301440.52	8.00	0.00
						6475397.98	2301409.25	8.00	0.00
						6475396.39	2301408.83	8.00	0.00
						6475395.11	2301408.69	8.00	0.00
						6475337.82	2301406.09	8.00	0.00
						6475336.59	2301406.11	8.00	0.00
						6475335.38	2301406.27	8.00	0.00
						6475334.20	2301406.59	8.00	0.00
						6475201.39	2301450.86	8.00	0.00
						6475199.79	2301451.55	8.00	0.00
						6475198.33	2301452.51	8.00	0.00
						6475197.07	2301453.71	8.00	0.00
						6475196.03	2301455.11	8.00	0.00
						6475195.25	2301456.67	8.00	0.00
						6475194.75	2301458.34	8.00	0.00
						6475194.55	2301460.07	8.00	0.00
						6475194.66	2301461.81	8.00	0.00
						6475195.06	2301463.51	8.00	0.00
						6475195.76	2301465.11	8.00	0.00
						6475196.72	2301466.56	8.00	0.00
						6475197.92	2301467.83	8.00	0.00
						6475199.32	2301468.87	8.00	0.00
						6475200.88	2301469.65	8.00	0.00
						6475202.55	2301470.14	8.00	0.00
						6475204.28	2301470.34	8.00	0.00
						6475206.02	2301470.24	8.00	0.00
						6475207.71	2301469.83	8.00	0.00
						6475338.76	2301426.15	8.00	0.00
						6475392.72	2301428.60	8.00	0.00
						6475478.54	2301458.89	8.00	0.00
						6475511.78	2301482.64	8.00	0.00
						6475570.57	2301602.76	8.00	0.00
						6475571.41	2301604.18	8.00	0.00
						6475572.48	2301605.44	8.00	0.00
						6475573.74	2301606.51	8.00	0.00
						6475575.16	2301607.35	8.00	0.00
						6475576.70	2301607.95	8.00	0.00
						6475578.32	2301608.29	8.00	0.00
						6475579.97	2301608.36	8.00	0.00
						6475581.61	2301608.15	8.00	0.00
						6475583.19	2301607.68	8.00	0.00
						6475584.67	2301606.96	8.00	0.00
						6475586.02	2301606.00	8.00	0.00
						6475587.18	2301604.83	8.00	0.00
						6475588.14	2301603.48	8.00	0.00
						6475588.87	2301602.00	8.00	0.00
						6475589.34	2301600.42	8.00	0.00
						6475589.54	2301598.78	8.00	0.00
						6475589.47	2301597.13	8.00	0.00
						6475589.13	2301595.51	8.00	0.00
						6475588.53	2301593.97	8.00	0.00
						6475528.64	2301471.58	8.00	0.00
						6475527.79	2301470.16	8.00	0.00
						6475526.73	2301468.90	8.00	0.00
						6475525.47	2301467.83	8.00	0.00

Name	ID	Height			Coordinates			
		Begin		End	x	y	z	Ground
		(ft)		(ft)	(ft)	(ft)	(ft)	(ft)
					6475489.01	2301441.79	8.00	0.00
					6475488.20	2301441.27	8.00	0.00
CA16	CA16	8.00	r		6475474.52	2301877.58	8.00	0.00
					6475472.91	2301877.43	8.00	0.00
					6475471.30	2301877.54	8.00	0.00
					6475469.74	2301877.90	8.00	0.00
					6475468.25	2301878.52	8.00	0.00
					6475466.87	2301879.36	8.00	0.00
					6475465.65	2301880.41	8.00	0.00
					6475464.62	2301881.65	8.00	0.00
					6475463.80	2301883.04	8.00	0.00
					6475463.21	2301884.54	8.00	0.00
					6475429.35	2301996.52	8.00	0.00
					6475429.01	2301998.13	8.00	0.00
					6475428.93	2301999.78	8.00	0.00
					6475429.13	2302001.42	8.00	0.00
					6475429.59	2302003.00	8.00	0.00
					6475430.31	2302004.49	8.00	0.00
					6475431.27	2302005.84	8.00	0.00
					6475432.43	2302007.01	8.00	0.00
					6475433.77	2302007.98	8.00	0.00
					6475435.25	2302008.71	8.00	0.00
					6475436.83	2302009.19	8.00	0.00
					6475438.47	2302009.40	8.00	0.00
					6475440.12	2302009.34	8.00	0.00
					6475441.74	2302009.01	8.00	0.00
					6475443.28	2302008.41	8.00	0.00
					6475444.70	2302007.57	8.00	0.00
					6475445.97	2302006.51	8.00	0.00
					6475447.04	2302005.25	8.00	0.00
					6475447.89	2302003.84	8.00	0.00
					6475448.50	2302002.30	8.00	0.00
					6475482.35	2301890.32	8.00	0.00
					6475482.70	2301888.67	8.00	0.00
					6475482.77	2301886.99	8.00	0.00
					6475482.55	2301885.31	8.00	0.00
					6475482.06	2301883.70	8.00	0.00
					6475481.30	2301882.19	8.00	0.00
					6475480.30	2301880.83	8.00	0.00
					6475479.08	2301879.66	8.00	0.00
					6475477.68	2301878.71	8.00	0.00
					6475476.15	2301878.01	8.00	0.00
CA17	CA17	8.00	r		6475857.33	2301710.91	8.00	0.00
					6475855.60	2301710.76	8.00	0.00
					6475853.87	2301710.91	8.00	0.00
					6475852.20	2301711.36	8.00	0.00
					6475850.62	2301712.08	8.00	0.00
					6475849.20	2301713.07	8.00	0.00
					6475847.97	2301714.29	8.00	0.00
					6475846.96	2301715.71	8.00	0.00
					6475846.22	2301717.27	8.00	0.00
					6475845.76	2301718.94	8.00	0.00
					6475845.59	2301720.67	8.00	0.00
					6475845.73	2301722.40	8.00	0.00
					6475846.16	2301724.08	8.00	0.00
					6475846.87	2301725.66	8.00	0.00
					6475847.85	2301727.09	8.00	0.00
					6475849.06	2301728.33	8.00	0.00
					6475850.47	2301729.35	8.00	0.00
					6475852.03	2301730.11	8.00	0.00
					6475995.33	2301784.82	8.00	0.00
					6475997.00	2301785.28	8.00	0.00
					6475998.73	2301785.45	8.00	0.00
					6476000.47	2301785.31	8.00	0.00
					6476002.15	2301784.88	8.00	0.00
					6476003.73	2301784.16	8.00	0.00
					6476005.17	2301783.18	8.00	0.00
					6476006.41	2301781.96	8.00	0.00
					6476007.42	2301780.55	8.00	0.00
					6476008.18	2301778.98	8.00	0.00
					6476008.65	2301777.31	8.00	0.00
					6476008.82	2301775.58	8.00	0.00
					6476008.69	2301773.84	8.00	0.00
					6476008.26	2301772.16	8.00	0.00
					6476007.55	2301770.57	8.00	0.00
					6476006.57	2301769.13	8.00	0.00
					6476005.36	2301767.89	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6476003.95	2301766.87	8.00	0.00
						6476002.39	2301766.11	8.00	0.00
						6475859.09	2301711.39	8.00	0.00
CA18	CA18	8.00	r			6475702.60	2300642.56	8.00	0.00
						6475700.97	2300642.40	8.00	0.00
						6475699.33	2300642.52	8.00	0.00
						6475697.74	2300642.90	8.00	0.00
						6475696.23	2300643.54	8.00	0.00
						6475694.85	2300644.41	8.00	0.00
						6475693.63	2300645.50	8.00	0.00
						6475692.60	2300646.78	8.00	0.00
						6475691.79	2300648.20	8.00	0.00
						6475691.22	2300649.74	8.00	0.00
						6475690.92	2300651.35	8.00	0.00
						6475690.88	2300652.98	8.00	0.00
						6475691.11	2300654.60	8.00	0.00
						6475691.60	2300656.17	8.00	0.00
						6475692.33	2300657.63	8.00	0.00
						6475693.30	2300658.95	8.00	0.00
						6475694.47	2300660.10	8.00	0.00
						6475798.26	2300745.48	8.00	0.00
						6475828.46	2300800.84	8.00	0.00
						6475885.63	2300920.39	8.00	0.00
						6475885.87	2300920.85	8.00	0.00
						6475950.97	2301040.64	8.00	0.00
						6475951.88	2301042.02	8.00	0.00
						6475953.00	2301043.24	8.00	0.00
						6475954.30	2301044.25	8.00	0.00
						6475955.76	2301045.03	8.00	0.00
						6475957.32	2301045.57	8.00	0.00
						6475958.95	2301045.83	8.00	0.00
						6475960.60	2301045.83	8.00	0.00
						6475962.23	2301045.56	8.00	0.00
						6475963.79	2301045.02	8.00	0.00
						6475965.24	2301044.23	8.00	0.00
						6475966.55	2301043.21	8.00	0.00
						6475967.66	2301042.00	8.00	0.00
						6475968.56	2301040.61	8.00	0.00
						6475969.22	2301039.10	8.00	0.00
						6475969.63	2301037.50	8.00	0.00
						6475969.76	2301035.85	8.00	0.00
						6475969.62	2301034.20	8.00	0.00
						6475969.21	2301032.60	8.00	0.00
						6475968.55	2301031.09	8.00	0.00
						6475903.56	2300911.53	8.00	0.00
						6475846.38	2300791.97	8.00	0.00
						6475846.14	2300791.50	8.00	0.00
						6475814.89	2300734.20	8.00	0.00
						6475814.22	2300733.14	8.00	0.00
						6475813.42	2300732.17	8.00	0.00
						6475812.50	2300731.30	8.00	0.00
						6475707.21	2300644.68	8.00	0.00
						6475705.81	2300643.71	8.00	0.00
						6475704.25	2300643.00	8.00	0.00
CA19	CA19	8.00	r			6475841.49	2300477.63	8.00	0.00
						6475839.79	2300477.47	8.00	0.00
						6475838.08	2300477.61	8.00	0.00
						6475836.43	2300478.04	8.00	0.00
						6475834.87	2300478.74	8.00	0.00
						6475833.46	2300479.70	8.00	0.00
						6475832.23	2300480.88	8.00	0.00
						6475831.22	2300482.26	8.00	0.00
						6475830.46	2300483.79	8.00	0.00
						6475829.96	2300485.42	8.00	0.00
						6475829.76	2300487.12	8.00	0.00
						6475829.84	2300488.82	8.00	0.00
						6475830.22	2300490.49	8.00	0.00
						6475830.87	2300492.07	8.00	0.00
						6475831.78	2300493.51	8.00	0.00
						6475832.92	2300494.78	8.00	0.00
						6475834.26	2300495.83	8.00	0.00
						6475951.67	2300572.87	8.00	0.00
						6475953.12	2300573.66	8.00	0.00
						6475954.68	2300574.20	8.00	0.00
						6475956.31	2300574.48	8.00	0.00
						6475957.96	2300574.48	8.00	0.00
						6475959.59	2300574.21	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6475961.15	2300573.68	8.00	0.00
						6475962.61	2300572.90	8.00	0.00
						6475963.91	2300571.88	8.00	0.00
						6475965.03	2300570.67	8.00	0.00
						6475965.94	2300569.29	8.00	0.00
						6475966.61	2300567.78	8.00	0.00
						6475967.02	2300566.18	8.00	0.00
						6475967.16	2300564.53	8.00	0.00
						6475967.02	2300562.89	8.00	0.00
						6475966.62	2300561.29	8.00	0.00
						6475965.96	2300559.77	8.00	0.00
						6475965.06	2300558.39	8.00	0.00
						6475963.94	2300557.17	8.00	0.00
						6475962.64	2300556.15	8.00	0.00
						6475845.24	2300479.11	8.00	0.00
						6475844.06	2300478.45	8.00	0.00
						6475842.80	2300477.95	8.00	0.00
CA20	CA20	8.00	r			6475292.22	2300096.33	8.00	0.00
						6475290.53	2300096.18	8.00	0.00
						6475288.83	2300096.32	8.00	0.00
						6475287.18	2300096.74	8.00	0.00
						6475285.63	2300097.44	8.00	0.00
						6475284.22	2300098.39	8.00	0.00
						6475282.99	2300099.57	8.00	0.00
						6475281.97	2300100.94	8.00	0.00
						6475281.21	2300102.46	8.00	0.00
						6475280.71	2300104.09	8.00	0.00
						6475280.50	2300105.78	8.00	0.00
						6475280.57	2300107.48	8.00	0.00
						6475280.94	2300109.14	8.00	0.00
						6475281.58	2300110.72	8.00	0.00
						6475282.48	2300112.17	8.00	0.00
						6475283.61	2300113.44	8.00	0.00
						6475284.94	2300114.50	8.00	0.00
						6475612.88	2300333.12	8.00	0.00
						6475833.83	2300495.53	8.00	0.00
						6475835.32	2300496.44	8.00	0.00
						6475836.94	2300497.07	8.00	0.00
						6475838.65	2300497.41	8.00	0.00
						6475840.39	2300497.45	8.00	0.00
						6475842.12	2300497.19	8.00	0.00
						6475843.77	2300496.63	8.00	0.00
						6475845.30	2300495.79	8.00	0.00
						6475846.66	2300494.70	8.00	0.00
						6475847.81	2300493.40	8.00	0.00
						6475848.71	2300491.91	8.00	0.00
						6475849.35	2300490.28	8.00	0.00
						6475849.69	2300488.57	8.00	0.00
						6475849.73	2300486.83	8.00	0.00
						6475849.47	2300485.11	8.00	0.00
						6475848.91	2300483.46	8.00	0.00
						6475848.07	2300481.93	8.00	0.00
						6475846.98	2300480.57	8.00	0.00
						6475845.67	2300479.42	8.00	0.00
						6475624.54	2300316.87	8.00	0.00
						6475624.16	2300316.61	8.00	0.00
						6475296.04	2300097.86	8.00	0.00
						6475294.84	2300097.18	8.00	0.00
						6475293.56	2300096.66	8.00	0.00
CA21	CA21	8.00	r			6474234.50	2301288.70	8.00	0.00
						6474031.34	2301114.18	8.00	0.00
						6474030.05	2301113.25	8.00	0.00
						6474028.63	2301112.54	8.00	0.00
						6474027.12	2301112.06	8.00	0.00
						6474025.55	2301111.83	8.00	0.00
						6474023.97	2301111.84	8.00	0.00
						6474022.41	2301112.11	8.00	0.00
						6474020.91	2301112.62	8.00	0.00
						6474019.51	2301113.36	8.00	0.00
						6474018.24	2301114.31	8.00	0.00
						6474017.14	2301115.46	8.00	0.00
						6473845.69	2301328.46	8.00	0.00
						6473792.22	2301376.84	8.00	0.00
						6473736.97	2301412.00	8.00	0.00
						6473678.95	2301427.14	8.00	0.00
						6473623.30	2301437.26	8.00	0.00
						6473524.91	2301429.69	8.00	0.00

Name	ID	Height		Coordinates			
		Begin	End	x	y	z	Ground
		(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
				6473447.41	2301392.18	8.00	0.00
				6473366.06	2301310.83	8.00	0.00
				6473336.05	2301263.32	8.00	0.00
				6473313.47	2301195.59	8.00	0.00
				6473308.30	2300980.90	8.00	0.00
				6473305.74	2300901.52	8.00	0.00
				6473318.21	2300851.64	8.00	0.00
				6473359.32	2300759.14	8.00	0.00
				6473388.95	2300707.28	8.00	0.00
				6473464.25	2300664.61	8.00	0.00
				6473570.55	2300617.94	8.00	0.00
				6473572.06	2300617.12	8.00	0.00
				6473573.40	2300616.05	8.00	0.00
				6473574.54	2300614.77	8.00	0.00
				6473575.45	2300613.31	8.00	0.00
				6473576.09	2300611.71	8.00	0.00
				6473576.45	2300610.03	8.00	0.00
				6473576.52	2300608.32	8.00	0.00
				6473576.29	2300606.61	8.00	0.00
				6473550.52	2300490.63	8.00	0.00
				6473553.71	2300371.74	8.00	0.00
				6473583.69	2300260.37	8.00	0.00
				6473626.58	2300136.00	8.00	0.00
				6473751.13	2299945.02	8.00	0.00
				6473898.68	2300022.89	8.00	0.00
				6473993.07	2300091.54	8.00	0.00
				6474070.21	2300164.39	8.00	0.00
				6474152.06	2300267.78	8.00	0.00
				6474299.47	2300475.89	8.00	0.00
				6474299.85	2300476.40	8.00	0.00
				6474391.06	2300589.31	8.00	0.00
				6474392.35	2300590.62	8.00	0.00
				6474393.00	2300591.12	8.00	0.00
				6474556.48	2300706.82	8.00	0.00
				6474557.13	2300707.24	8.00	0.00
				6474710.53	2300798.98	8.00	0.00
				6474711.39	2300799.43	8.00	0.00
				6474827.21	2300853.03	8.00	0.00
				6474827.99	2300853.35	8.00	0.00
				6474828.50	2300853.52	8.00	0.00
				6475012.19	2300909.37	8.00	0.00
				6475013.86	2300909.72	8.00	0.00
				6475015.57	2300909.79	8.00	0.00
				6475197.87	2300901.11	8.00	0.00
				6475199.13	2300900.97	8.00	0.00
				6475199.53	2300900.89	8.00	0.00
				6475377.48	2300861.82	8.00	0.00
				6475378.76	2300861.45	8.00	0.00
				6475379.28	2300861.25	8.00	0.00
				6475500.81	2300809.16	8.00	0.00
				6475501.87	2300808.63	8.00	0.00
				6475614.71	2300743.53	8.00	0.00
				6475616.14	2300742.53	8.00	0.00
				6475616.42	2300742.28	8.00	0.00
				6475707.57	2300659.82	8.00	0.00
				6475707.93	2300659.47	8.00	0.00
				6475781.72	2300585.69	8.00	0.00
				6475782.31	2300585.05	8.00	0.00
				6475782.78	2300584.43	8.00	0.00
				6475847.91	2300493.26	8.00	0.00
				6475930.39	2300376.04	8.00	0.00
				6475931.19	2300374.71	8.00	0.00
				6475931.76	2300373.27	8.00	0.00
				6475975.19	2300234.30	8.00	0.00
				6476018.62	2300086.65	8.00	0.00
				6476018.87	2300085.56	8.00	0.00
				6476019.00	2300084.52	8.00	0.00
				6476027.68	2299958.65	8.00	0.00
				6476027.70	2299957.96	8.00	0.00
				6476027.66	2299957.00	8.00	0.00
				6476014.63	2299822.45	8.00	0.00
				6476014.60	2299822.13	8.00	0.00
				6475997.24	2299687.58	8.00	0.00
				6475997.16	2299687.06	8.00	0.00
				6475966.91	2299527.19	8.00	0.00
				6475962.60	2299380.74	8.00	0.00
				6475980.14	2298898.10	8.00	0.00

Name	ID	Height		Coordinates			
		Begin	End	x	y	z	Ground
		(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
				6475980.06	2298896.45	8.00	0.00
				6475979.72	2298894.84	8.00	0.00
				6475979.11	2298893.30	8.00	0.00
				6475978.26	2298891.89	8.00	0.00
				6475977.18	2298890.63	8.00	0.00
				6475975.92	2298889.57	8.00	0.00
				6475974.49	2298888.73	8.00	0.00
				6475972.95	2298888.14	8.00	0.00
				6475971.33	2298887.81	8.00	0.00
				6475969.68	2298887.75	8.00	0.00
				6475968.05	2298887.96	8.00	0.00
				6475966.46	2298888.44	8.00	0.00
				6475964.98	2298889.17	8.00	0.00
				6475963.65	2298890.14	8.00	0.00
				6475962.48	2298891.31	8.00	0.00
				6475961.53	2298892.66	8.00	0.00
				6475960.81	2298894.15	8.00	0.00
				6475960.35	2298895.74	8.00	0.00
				6475960.15	2298897.38	8.00	0.00
				6475942.60	2299380.34	8.00	0.00
				6475942.60	2299380.70	8.00	0.00
				6475942.60	2299381.00	8.00	0.00
				6475946.94	2299528.57	8.00	0.00
				6475947.10	2299530.07	8.00	0.00
				6475977.44	2299690.43	8.00	0.00
				6475994.74	2299824.53	8.00	0.00
				6476007.67	2299958.10	8.00	0.00
				6475999.12	2300082.05	8.00	0.00
				6475956.05	2300228.49	8.00	0.00
				6475913.14	2300365.81	8.00	0.00
				6475831.59	2300481.69	8.00	0.00
				6475766.99	2300572.13	8.00	0.00
				6475693.97	2300645.16	8.00	0.00
				6475603.80	2300726.74	8.00	0.00
				6475492.38	2300791.02	8.00	0.00
				6475372.27	2300842.49	8.00	0.00
				6475196.07	2300881.17	8.00	0.00
				6475016.35	2300889.73	8.00	0.00
				6474834.98	2300834.59	8.00	0.00
				6474720.27	2300781.50	8.00	0.00
				6474567.72	2300690.28	8.00	0.00
				6474405.69	2300575.60	8.00	0.00
				6474315.61	2300464.07	8.00	0.00
				6474168.22	2300256.00	8.00	0.00
				6474167.90	2300255.57	8.00	0.00
				6474085.44	2300151.41	8.00	0.00
				6474085.26	2300151.18	8.00	0.00
				6474084.46	2300150.34	8.00	0.00
				6474006.34	2300076.56	8.00	0.00
				6474005.90	2300076.17	8.00	0.00
				6474005.35	2300075.74	8.00	0.00
				6473909.87	2300006.30	8.00	0.00
				6473908.99	2300005.72	8.00	0.00
				6473908.65	2300005.54	8.00	0.00
				6473752.40	2299923.07	8.00	0.00
				6473750.90	2299922.43	8.00	0.00
				6473749.30	2299922.04	8.00	0.00
				6473747.66	2299921.92	8.00	0.00
				6473746.03	2299922.06	8.00	0.00
				6473744.44	2299922.48	8.00	0.00
				6473742.94	2299923.14	8.00	0.00
				6473741.57	2299924.04	8.00	0.00
				6473740.37	2299925.16	8.00	0.00
				6473739.36	2299926.45	8.00	0.00
				6473609.15	2300126.11	8.00	0.00
				6473608.87	2300126.57	8.00	0.00
				6473608.10	2300128.23	8.00	0.00
				6473564.67	2300254.18	8.00	0.00
				6473564.47	2300254.84	8.00	0.00
				6473534.09	2300367.69	8.00	0.00
				6473533.90	2300368.55	8.00	0.00
				6473533.75	2300370.02	8.00	0.00
				6473530.49	2300491.33	8.00	0.00
				6473530.53	2300492.55	8.00	0.00
				6473530.73	2300493.77	8.00	0.00
				6473554.99	2300602.93	8.00	0.00
				6473455.74	2300646.50	8.00	0.00

Name	ID	Height		Coordinates			
		Begin	End	x	y	z	Ground
		(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
				6473454.83	2300646.96	8.00	0.00
				6473376.67	2300691.25	8.00	0.00
				6473375.57	2300691.98	8.00	0.00
				6473374.57	2300692.85	8.00	0.00
				6473373.70	2300693.85	8.00	0.00
				6473372.96	2300694.95	8.00	0.00
				6473341.70	2300749.66	8.00	0.00
				6473341.25	2300750.56	8.00	0.00
				6473299.58	2300844.31	8.00	0.00
				6473299.32	2300844.95	8.00	0.00
				6473299.02	2300845.94	8.00	0.00
				6473286.00	2300898.03	8.00	0.00
				6473285.75	2300899.39	8.00	0.00
				6473285.70	2300900.77	8.00	0.00
				6473288.30	2300981.46	8.00	0.00
				6473293.51	2301197.57	8.00	0.00
				6473293.66	2301199.06	8.00	0.00
				6473294.02	2301200.49	8.00	0.00
				6473317.46	2301270.80	8.00	0.00
				6473317.91	2301271.92	8.00	0.00
				6473318.49	2301272.98	8.00	0.00
				6473349.74	2301322.46	8.00	0.00
				6473350.54	2301323.55	8.00	0.00
				6473351.13	2301324.19	8.00	0.00
				6473434.46	2301407.52	8.00	0.00
				6473435.74	2301408.60	8.00	0.00
				6473437.17	2301409.45	8.00	0.00
				6473517.90	2301448.51	8.00	0.00
				6473519.06	2301448.99	8.00	0.00
				6473520.26	2301449.31	8.00	0.00
				6473521.49	2301449.48	8.00	0.00
				6473623.05	2301457.30	8.00	0.00
				6473623.82	2301457.33	8.00	0.00
				6473625.58	2301457.17	8.00	0.00
				6473682.90	2301446.75	8.00	0.00
				6473683.64	2301446.59	8.00	0.00
				6473743.53	2301430.96	8.00	0.00
				6473745.00	2301430.45	8.00	0.00
				6473746.38	2301429.72	8.00	0.00
				6473803.67	2301393.26	8.00	0.00
				6473804.73	2301392.49	8.00	0.00
				6473805.01	2301392.24	8.00	0.00
				6473859.70	2301342.76	8.00	0.00
				6473860.71	2301341.70	8.00	0.00
				6474026.18	2301136.12	8.00	0.00
				6474221.12	2301303.57	8.00	0.00
				6474300.72	2301385.73	8.00	0.00
				6474357.18	2301480.69	8.00	0.00
				6474409.00	2301589.52	8.00	0.00
				6474468.70	2301724.50	8.00	0.00
				6474585.75	2302047.01	8.00	0.00
				6474679.47	2302320.36	8.00	0.00
				6474679.54	2302320.56	8.00	0.00
				6474783.72	2302601.86	8.00	0.00
				6474898.32	2302906.57	8.00	0.00
				6474899.07	2302908.14	8.00	0.00
				6474900.08	2302909.56	8.00	0.00
				6474901.32	2302910.78	8.00	0.00
				6474902.76	2302911.76	8.00	0.00
				6474904.34	2302912.48	8.00	0.00
				6474906.03	2302912.92	8.00	0.00
				6474907.76	2302913.05	8.00	0.00
				6474909.49	2302912.89	8.00	0.00
				6474911.17	2302912.42	8.00	0.00
				6474912.74	2302911.68	8.00	0.00
				6474914.16	2302910.67	8.00	0.00
				6474915.38	2302909.43	8.00	0.00
				6474916.37	2302908.00	8.00	0.00
				6474917.09	2302906.41	8.00	0.00
				6474917.53	2302904.73	8.00	0.00
				6474917.68	2302903.00	8.00	0.00
				6474917.51	2302901.26	8.00	0.00
				6474917.05	2302899.58	8.00	0.00
				6474802.46	2302594.87	8.00	0.00
				6474698.35	2302313.76	8.00	0.00
				6474604.61	2302040.35	8.00	0.00
				6474487.39	2301717.35	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6474487.13	2301716.72	8.00	0.00
						6474427.24	2301581.30	8.00	0.00
						6474427.12	2301581.05	8.00	0.00
						6474375.04	2301471.67	8.00	0.00
						6474374.64	2301470.92	8.00	0.00
						6474317.31	2301374.51	8.00	0.00
						6474316.38	2301373.19	8.00	0.00
						6474315.90	2301372.66	8.00	0.00
						6474235.17	2301289.33	8.00	0.00
CA22	CA22	8.00	r			6475667.84	2299084.47	8.00	0.00
						6475626.12	2299061.01	8.00	0.00
						6475624.87	2299060.41	8.00	0.00
						6475623.56	2299060.00	8.00	0.00
						6475622.19	2299059.77	8.00	0.00
						6475620.81	2299059.73	8.00	0.00
						6475428.25	2299067.54	8.00	0.00
						6475212.20	2299070.14	8.00	0.00
						6474959.66	2299075.35	8.00	0.00
						6474673.20	2299075.35	8.00	0.00
						6474410.18	2299080.55	8.00	0.00
						6474162.88	2299080.55	8.00	0.00
						6474161.56	2299080.64	8.00	0.00
						6474122.50	2299085.85	8.00	0.00
						6474121.04	2299086.16	8.00	0.00
						6474119.64	2299086.68	8.00	0.00
						6474118.33	2299087.41	8.00	0.00
						6474117.14	2299088.32	8.00	0.00
						6474116.11	2299089.40	8.00	0.00
						6474115.25	2299090.62	8.00	0.00
						6474091.77	2299129.75	8.00	0.00
						6474091.12	2299131.06	8.00	0.00
						6474090.67	2299132.45	8.00	0.00
						6474090.43	2299133.89	8.00	0.00
						6474090.40	2299135.35	8.00	0.00
						6474092.99	2299184.63	8.00	0.00
						6474095.59	2299387.56	8.00	0.00
						6474095.60	2299387.78	8.00	0.00
						6474100.81	2299536.22	8.00	0.00
						6474100.94	2299537.51	8.00	0.00
						6474113.97	2299615.68	8.00	0.00
						6474114.15	2299616.53	8.00	0.00
						6474142.79	2299725.90	8.00	0.00
						6474143.07	2299726.79	8.00	0.00
						6474143.35	2299727.48	8.00	0.00
						6474203.25	2299860.29	8.00	0.00
						6474203.70	2299861.18	8.00	0.00
						6474204.11	2299861.83	8.00	0.00
						6474237.96	2299911.31	8.00	0.00
						6474238.56	2299912.09	8.00	0.00
						6474238.76	2299912.32	8.00	0.00
						6474303.44	2299984.76	8.00	0.00
						6474490.57	2300257.67	8.00	0.00
						6474490.78	2300257.96	8.00	0.00
						6474622.76	2300436.52	8.00	0.00
						6474652.69	2300516.33	8.00	0.00
						6474648.01	2300560.86	8.00	0.00
						6474554.11	2300692.86	8.00	0.00
						6474553.27	2300694.28	8.00	0.00
						6474552.67	2300695.82	8.00	0.00
						6474552.33	2300697.44	8.00	0.00
						6474552.27	2300699.09	8.00	0.00
						6474552.48	2300700.73	8.00	0.00
						6474552.95	2300702.31	8.00	0.00
						6474553.68	2300703.79	8.00	0.00
						6474554.64	2300705.14	8.00	0.00
						6474555.81	2300706.30	8.00	0.00
						6474557.16	2300707.26	8.00	0.00
						6474558.64	2300707.98	8.00	0.00
						6474560.23	2300708.45	8.00	0.00
						6474561.86	2300708.65	8.00	0.00
						6474563.51	2300708.58	8.00	0.00
						6474565.13	2300708.24	8.00	0.00
						6474566.67	2300707.64	8.00	0.00
						6474568.09	2300706.79	8.00	0.00
						6474569.34	2300705.72	8.00	0.00
						6474570.41	2300704.46	8.00	0.00
						6474665.82	2300570.31	8.00	0.00

Name	ID	Height		Coordinates			
		Begin	End	x	y	z	Ground
		(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
				6474666.69	2300568.84	8.00	0.00
				6474667.30	2300567.24	8.00	0.00
				6474667.62	2300565.56	8.00	0.00
				6474672.83	2300516.08	8.00	0.00
				6474672.87	2300514.55	8.00	0.00
				6474672.68	2300513.04	8.00	0.00
				6474672.26	2300511.57	8.00	0.00
				6474641.00	2300428.19	8.00	0.00
				6474640.29	2300426.70	8.00	0.00
				6474639.68	2300425.76	8.00	0.00
				6474506.97	2300246.21	8.00	0.00
				6474319.57	2299972.92	8.00	0.00
				6474318.98	2299972.15	8.00	0.00
				6474318.78	2299971.92	8.00	0.00
				6474254.11	2299899.48	8.00	0.00
				6474221.12	2299851.26	8.00	0.00
				6474161.93	2299720.02	8.00	0.00
				6474133.61	2299611.90	8.00	0.00
				6474120.77	2299534.87	8.00	0.00
				6474115.59	2299387.19	8.00	0.00
				6474112.99	2299184.18	8.00	0.00
				6474112.97	2299183.78	8.00	0.00
				6474110.53	2299137.35	8.00	0.00
				6474129.92	2299105.04	8.00	0.00
				6474163.55	2299100.55	8.00	0.00
				6474410.38	2299100.55	8.00	0.00
				6474673.40	2299095.35	8.00	0.00
				6474959.86	2299095.35	8.00	0.00
				6475212.53	2299090.14	8.00	0.00
				6475428.63	2299087.53	8.00	0.00
				6475428.91	2299087.53	8.00	0.00
				6475618.79	2299079.83	8.00	0.00
				6475652.78	2299098.95	8.00	0.00
				6475647.69	2299378.85	8.00	0.00
				6475632.23	2299492.20	8.00	0.00
				6475609.15	2299576.84	8.00	0.00
				6475585.98	2299630.89	8.00	0.00
				6475585.86	2299631.20	8.00	0.00
				6475549.80	2299723.91	8.00	0.00
				6475459.38	2299858.25	8.00	0.00
				6475282.42	2300100.28	8.00	0.00
				6475282.27	2300100.48	8.00	0.00
				6475123.42	2300329.65	8.00	0.00
				6475123.13	2300330.08	8.00	0.00
				6474987.87	2300548.58	8.00	0.00
				6474876.07	2300707.19	8.00	0.00
				6474875.28	2300708.51	8.00	0.00
				6474874.70	2300709.94	8.00	0.00
				6474859.26	2300758.83	8.00	0.00
				6474822.31	2300839.80	8.00	0.00
				6474821.73	2300841.44	8.00	0.00
				6474821.44	2300843.16	8.00	0.00
				6474821.45	2300844.91	8.00	0.00
				6474821.77	2300846.62	8.00	0.00
				6474822.38	2300848.25	8.00	0.00
				6474823.26	2300849.76	8.00	0.00
				6474824.39	2300851.08	8.00	0.00
				6474825.74	2300852.19	8.00	0.00
				6474827.25	2300853.05	8.00	0.00
				6474828.90	2300853.63	8.00	0.00
				6474830.62	2300853.92	8.00	0.00
				6474832.36	2300853.91	8.00	0.00
				6474834.07	2300853.59	8.00	0.00
				6474835.71	2300852.98	8.00	0.00
				6474837.21	2300852.10	8.00	0.00
				6474838.54	2300850.97	8.00	0.00
				6474839.64	2300849.62	8.00	0.00
				6474840.50	2300848.11	8.00	0.00
				6474877.71	2300766.58	8.00	0.00
				6474878.01	2300765.85	8.00	0.00
				6474878.15	2300765.44	8.00	0.00
				6474893.31	2300717.44	8.00	0.00
				6475004.39	2300559.86	8.00	0.00
				6475004.72	2300559.36	8.00	0.00
				6475140.00	2300340.83	8.00	0.00
				6475298.64	2300111.98	8.00	0.00
				6475475.64	2299869.89	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6475475.87	2299869.58	8.00	0.00
						6475567.01	2299734.16	8.00	0.00
						6475567.38	2299733.58	8.00	0.00
						6475568.04	2299732.20	8.00	0.00
						6475604.43	2299638.61	8.00	0.00
						6475627.80	2299584.08	8.00	0.00
						6475628.01	2299583.56	8.00	0.00
						6475628.26	2299582.77	8.00	0.00
						6475651.70	2299496.83	8.00	0.00
						6475651.90	2299495.94	8.00	0.00
						6475651.96	2299495.55	8.00	0.00
						6475667.58	2299380.97	8.00	0.00
						6475667.67	2299379.80	8.00	0.00
						6475672.88	2299093.25	8.00	0.00
						6475672.78	2299091.74	8.00	0.00
						6475672.45	2299090.26	8.00	0.00
						6475671.91	2299088.85	8.00	0.00
						6475671.15	2299087.53	8.00	0.00
						6475670.21	2299086.35	8.00	0.00
						6475669.09	2299085.32	8.00	0.00
CA23	CA23	8.00	r			6475277.23	2300588.25	8.00	0.00
						6475384.65	2300545.93	8.00	0.00
						6475385.98	2300545.29	8.00	0.00
						6475386.50	2300544.96	8.00	0.00
						6475466.80	2300491.80	8.00	0.00
						6475467.21	2300491.51	8.00	0.00
						6475549.68	2300430.75	8.00	0.00
						6475550.75	2300429.83	8.00	0.00
						6475551.68	2300428.77	8.00	0.00
						6475626.55	2300331.01	8.00	0.00
						6475627.45	2300329.62	8.00	0.00
						6475628.10	2300328.10	8.00	0.00
						6475628.49	2300326.50	8.00	0.00
						6475628.61	2300324.85	8.00	0.00
						6475628.46	2300323.21	8.00	0.00
						6475628.05	2300321.61	8.00	0.00
						6475627.37	2300320.10	8.00	0.00
						6475626.46	2300318.73	8.00	0.00
						6475625.33	2300317.52	8.00	0.00
						6475624.02	2300316.52	8.00	0.00
						6475622.56	2300315.74	8.00	0.00
						6475620.99	2300315.22	8.00	0.00
						6475619.36	2300314.96	8.00	0.00
						6475617.71	2300314.97	8.00	0.00
						6475616.08	2300315.26	8.00	0.00
						6475614.52	2300315.80	8.00	0.00
						6475613.08	2300316.60	8.00	0.00
						6475611.78	2300317.63	8.00	0.00
						6475610.67	2300318.85	8.00	0.00
						6475536.67	2300415.49	8.00	0.00
						6475455.55	2300475.26	8.00	0.00
						6475376.34	2300527.71	8.00	0.00
						6475271.19	2300569.13	8.00	0.00
						6475176.15	2300578.64	8.00	0.00
						6475083.42	2300564.78	8.00	0.00
						6474998.56	2300544.37	8.00	0.00
						6474996.92	2300544.12	8.00	0.00
						6474995.27	2300544.14	8.00	0.00
						6474993.65	2300544.43	8.00	0.00
						6474992.09	2300544.99	8.00	0.00
						6474990.65	2300545.79	8.00	0.00
						6474989.36	2300546.82	8.00	0.00
						6474988.25	2300548.05	8.00	0.00
						6474987.37	2300549.44	8.00	0.00
						6474986.72	2300550.96	8.00	0.00
						6474986.33	2300552.57	8.00	0.00
						6474986.22	2300554.22	8.00	0.00
						6474986.37	2300555.86	8.00	0.00
						6474986.80	2300557.46	8.00	0.00
						6474987.48	2300558.96	8.00	0.00
						6474988.40	2300560.33	8.00	0.00
						6474989.53	2300561.53	8.00	0.00
						6474990.85	2300562.53	8.00	0.00
						6474992.31	2300563.30	8.00	0.00
						6474993.88	2300563.82	8.00	0.00
						6475079.17	2300584.33	8.00	0.00
						6475079.77	2300584.45	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6475080.03	2300584.49	8.00	0.00
						6475174.43	2300598.60	8.00	0.00
						6475175.91	2300598.71	8.00	0.00
						6475176.90	2300598.66	8.00	0.00
						6475274.56	2300588.89	8.00	0.00
						6475275.91	2300588.66	8.00	0.00
CA24	CA24	8.00	r			6474368.43	2299396.02	8.00	0.00
						6474644.42	2299389.08	8.00	0.00
						6475005.45	2299390.81	8.00	0.00
						6475380.44	2299387.34	8.00	0.00
						6475657.62	2299389.62	8.00	0.00
						6475952.58	2299390.70	8.00	0.00
						6475954.32	2299390.55	8.00	0.00
						6475956.00	2299390.11	8.00	0.00
						6475957.58	2299389.37	8.00	0.00
						6475959.01	2299388.38	8.00	0.00
						6475960.24	2299387.15	8.00	0.00
						6475961.25	2299385.72	8.00	0.00
						6475961.99	2299384.15	8.00	0.00
						6475962.44	2299382.46	8.00	0.00
						6475962.60	2299380.73	8.00	0.00
						6475962.45	2299378.99	8.00	0.00
						6475962.00	2299377.31	8.00	0.00
						6475961.27	2299375.73	8.00	0.00
						6475960.28	2299374.30	8.00	0.00
						6475959.05	2299373.06	8.00	0.00
						6475957.63	2299372.06	8.00	0.00
						6475956.05	2299371.32	8.00	0.00
						6475954.37	2299370.86	8.00	0.00
						6475952.63	2299370.70	8.00	0.00
						6475657.74	2299369.62	8.00	0.00
						6475380.43	2299367.34	8.00	0.00
						6475005.41	2299370.81	8.00	0.00
						6474644.35	2299369.07	8.00	0.00
						6474644.07	2299369.08	8.00	0.00
						6474368.13	2299376.02	8.00	0.00
						6474105.56	2299377.43	8.00	0.00
						6473819.66	2299377.76	8.00	0.00
						6473817.93	2299377.91	8.00	0.00
						6473816.25	2299378.36	8.00	0.00
						6473814.68	2299379.09	8.00	0.00
						6473813.26	2299380.08	8.00	0.00
						6473812.03	2299381.31	8.00	0.00
						6473811.03	2299382.72	8.00	0.00
						6473810.29	2299384.29	8.00	0.00
						6473809.83	2299385.97	8.00	0.00
						6473809.67	2299387.70	8.00	0.00
						6473807.94	2299675.43	8.00	0.00
						6473797.64	2299780.11	8.00	0.00
						6473780.75	2299845.98	8.00	0.00
						6473738.85	2299927.34	8.00	0.00
						6473738.21	2299928.86	8.00	0.00
						6473737.84	2299930.47	8.00	0.00
						6473737.74	2299932.12	8.00	0.00
						6473737.91	2299933.76	8.00	0.00
						6473738.35	2299935.36	8.00	0.00
						6473739.04	2299936.86	8.00	0.00
						6473739.97	2299938.22	8.00	0.00
						6473741.12	2299939.41	8.00	0.00
						6473742.44	2299940.40	8.00	0.00
						6473743.91	2299941.16	8.00	0.00
						6473745.48	2299941.66	8.00	0.00
						6473747.11	2299941.90	8.00	0.00
						6473748.77	2299941.86	8.00	0.00
						6473750.39	2299941.56	8.00	0.00
						6473751.94	2299940.99	8.00	0.00
						6473753.38	2299940.18	8.00	0.00
						6473754.66	2299939.14	8.00	0.00
						6473755.75	2299937.90	8.00	0.00
						6473756.63	2299936.50	8.00	0.00
						6473799.05	2299854.14	8.00	0.00
						6473799.55	2299852.98	8.00	0.00
						6473799.84	2299852.04	8.00	0.00
						6473817.20	2299784.34	8.00	0.00
						6473817.36	2299783.59	8.00	0.00
						6473817.47	2299782.83	8.00	0.00
						6473827.89	2299676.93	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6473827.93	2299676.01	8.00	0.00
						6473829.61	2299397.74	8.00	0.00
						6474105.63	2299397.43	8.00	0.00
CA25	CA25	8.00	r			6475596.91	2299624.98	8.00	0.00
						6475595.24	2299624.83	8.00	0.00
						6475593.56	2299624.96	8.00	0.00
						6475591.93	2299625.37	8.00	0.00
						6475590.39	2299626.05	8.00	0.00
						6475588.98	2299626.97	8.00	0.00
						6475587.76	2299628.12	8.00	0.00
						6475586.74	2299629.46	8.00	0.00
						6475585.96	2299630.95	8.00	0.00
						6475585.44	2299632.55	8.00	0.00
						6475585.19	2299634.22	8.00	0.00
						6475585.23	2299635.90	8.00	0.00
						6475585.55	2299637.55	8.00	0.00
						6475586.15	2299639.12	8.00	0.00
						6475587.00	2299640.58	8.00	0.00
						6475588.08	2299641.87	8.00	0.00
						6475589.36	2299642.96	8.00	0.00
						6475590.80	2299643.82	8.00	0.00
						6475648.93	2299672.09	8.00	0.00
						6475703.49	2299725.00	8.00	0.00
						6475731.92	2299798.57	8.00	0.00
						6475745.26	2299863.62	8.00	0.00
						6475729.96	2299953.70	8.00	0.00
						6475714.35	2300037.01	8.00	0.00
						6475714.18	2300038.74	8.00	0.00
						6475714.33	2300040.47	8.00	0.00
						6475714.77	2300042.16	8.00	0.00
						6475715.49	2300043.74	8.00	0.00
						6475716.48	2300045.17	8.00	0.00
						6475717.70	2300046.41	8.00	0.00
						6475719.12	2300047.42	8.00	0.00
						6475720.69	2300048.17	8.00	0.00
						6475722.37	2300048.63	8.00	0.00
						6475724.10	2300048.80	8.00	0.00
						6475725.83	2300048.66	8.00	0.00
						6475727.52	2300048.22	8.00	0.00
						6475729.10	2300047.50	8.00	0.00
						6475730.54	2300046.52	8.00	0.00
						6475731.78	2300045.30	8.00	0.00
						6475732.79	2300043.89	8.00	0.00
						6475733.54	2300042.32	8.00	0.00
						6475734.01	2300040.64	8.00	0.00
						6475749.65	2299957.21	8.00	0.00
						6475765.29	2299865.12	8.00	0.00
						6475765.42	2299863.90	8.00	0.00
						6475765.40	2299862.66	8.00	0.00
						6475765.23	2299861.44	8.00	0.00
						6475751.34	2299793.73	8.00	0.00
						6475750.91	2299792.23	8.00	0.00
						6475721.36	2299715.75	8.00	0.00
						6475720.74	2299714.45	8.00	0.00
						6475719.95	2299713.25	8.00	0.00
						6475718.99	2299712.17	8.00	0.00
						6475661.70	2299656.62	8.00	0.00
						6475660.48	2299655.61	8.00	0.00
						6475659.11	2299654.80	8.00	0.00
						6475599.55	2299625.83	8.00	0.00
						6475598.60	2299625.43	8.00	0.00
CA26	CA26	8.00	r			6475382.17	2299367.49	8.00	0.00
						6475380.52	2299367.34	8.00	0.00
						6475378.87	2299367.46	8.00	0.00
						6475377.26	2299367.85	8.00	0.00
						6475375.74	2299368.51	8.00	0.00
						6475374.35	2299369.40	8.00	0.00
						6475373.13	2299370.51	8.00	0.00
						6475372.10	2299371.81	8.00	0.00
						6475371.30	2299373.26	8.00	0.00
						6475370.76	2299374.82	8.00	0.00
						6475370.47	2299376.45	8.00	0.00
						6475363.61	2299453.69	8.00	0.00
						6475343.32	2299528.09	8.00	0.00
						6475312.83	2299583.99	8.00	0.00
						6475252.57	2299675.24	8.00	0.00
						6475171.28	2299775.56	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6475170.30	2299777.00	8.00	0.00
						6475169.59	2299778.58	8.00	0.00
						6475169.17	2299780.27	8.00	0.00
						6475169.05	2299782.00	8.00	0.00
						6475169.22	2299783.73	8.00	0.00
						6475169.70	2299785.41	8.00	0.00
						6475170.45	2299786.97	8.00	0.00
						6475171.47	2299788.38	8.00	0.00
						6475172.72	2299789.59	8.00	0.00
						6475174.15	2299790.57	8.00	0.00
						6475175.74	2299791.29	8.00	0.00
						6475177.42	2299791.72	8.00	0.00
						6475179.15	2299791.85	8.00	0.00
						6475180.88	2299791.68	8.00	0.00
						6475182.56	2299791.21	8.00	0.00
						6475184.13	2299790.46	8.00	0.00
						6475185.54	2299789.45	8.00	0.00
						6475186.76	2299788.21	8.00	0.00
						6475268.41	2299687.45	8.00	0.00
						6475268.99	2299686.67	8.00	0.00
						6475329.75	2299594.65	8.00	0.00
						6475330.07	2299594.14	8.00	0.00
						6475330.18	2299593.93	8.00	0.00
						6475361.43	2299536.64	8.00	0.00
						6475362.05	2299535.27	8.00	0.00
						6475362.30	2299534.48	8.00	0.00
						6475383.14	2299458.09	8.00	0.00
						6475383.34	2299457.20	8.00	0.00
						6475383.45	2299456.35	8.00	0.00
						6475390.39	2299378.22	8.00	0.00
						6475390.40	2299376.58	8.00	0.00
						6475390.14	2299374.95	8.00	0.00
						6475389.62	2299373.39	8.00	0.00
						6475388.85	2299371.93	8.00	0.00
						6475387.84	2299370.62	8.00	0.00
						6475386.64	2299369.50	8.00	0.00
						6475385.27	2299368.58	8.00	0.00
						6475383.76	2299367.91	8.00	0.00
CA27	CA27	8.00	r			6475007.17	2299370.96	8.00	0.00
						6475005.48	2299370.81	8.00	0.00
						6475003.79	2299370.95	8.00	0.00
						6475002.14	2299371.37	8.00	0.00
						6475000.59	2299372.06	8.00	0.00
						6474999.18	2299373.01	8.00	0.00
						6474997.95	2299374.18	8.00	0.00
						6474996.94	2299375.54	8.00	0.00
						6474996.17	2299377.05	8.00	0.00
						6474995.66	2299378.67	8.00	0.00
						6474995.44	2299380.35	8.00	0.00
						6474995.51	2299382.05	8.00	0.00
						6475007.64	2299479.09	8.00	0.00
						6475012.83	2299537.94	8.00	0.00
						6475013.11	2299539.57	8.00	0.00
						6475013.66	2299541.13	8.00	0.00
						6475014.45	2299542.57	8.00	0.00
						6475015.47	2299543.87	8.00	0.00
						6475016.69	2299544.98	8.00	0.00
						6475018.08	2299545.88	8.00	0.00
						6475019.60	2299546.54	8.00	0.00
						6475021.20	2299546.93	8.00	0.00
						6475022.85	2299547.06	8.00	0.00
						6475024.49	2299546.92	8.00	0.00
						6475026.09	2299546.50	8.00	0.00
						6475027.60	2299545.83	8.00	0.00
						6475028.98	2299544.92	8.00	0.00
						6475030.19	2299543.79	8.00	0.00
						6475031.20	2299542.49	8.00	0.00
						6475031.97	2299541.03	8.00	0.00
						6475032.50	2299539.46	8.00	0.00
						6475032.76	2299537.83	8.00	0.00
						6475032.76	2299536.18	8.00	0.00
						6475027.55	2299477.15	8.00	0.00
						6475027.51	2299476.79	8.00	0.00
						6475015.36	2299379.57	8.00	0.00
						6475015.03	2299378.02	8.00	0.00
						6475014.47	2299376.53	8.00	0.00
						6475013.68	2299375.15	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6475012.68	2299373.92	8.00	0.00
						6475011.50	2299372.86	8.00	0.00
						6475010.16	2299372.00	8.00	0.00
						6475008.71	2299371.36	8.00	0.00
CA28	CA28	8.00	r			6474886.25	2300187.71	8.00	0.00
						6475021.72	2300031.40	8.00	0.00
						6475022.65	2300030.12	8.00	0.00
						6475023.36	2300028.71	8.00	0.00
						6475023.85	2300027.21	8.00	0.00
						6475024.09	2300025.65	8.00	0.00
						6475027.56	2299978.77	8.00	0.00
						6475027.55	2299977.23	8.00	0.00
						6475027.31	2299975.70	8.00	0.00
						6475026.83	2299974.23	8.00	0.00
						6475026.14	2299972.85	8.00	0.00
						6475025.24	2299971.59	8.00	0.00
						6474921.26	2299848.56	8.00	0.00
						6474767.04	2299640.62	8.00	0.00
						6474679.26	2299513.25	8.00	0.00
						6474656.02	2299453.48	8.00	0.00
						6474654.32	2299378.85	8.00	0.00
						6474654.13	2299377.11	8.00	0.00
						6474653.64	2299375.44	8.00	0.00
						6474652.87	2299373.88	8.00	0.00
						6474651.83	2299372.47	8.00	0.00
						6474650.57	2299371.27	8.00	0.00
						6474649.12	2299370.30	8.00	0.00
						6474647.53	2299369.60	8.00	0.00
						6474645.83	2299369.19	8.00	0.00
						6474644.10	2299369.08	8.00	0.00
						6474642.36	2299369.27	8.00	0.00
						6474640.69	2299369.76	8.00	0.00
						6474639.13	2299370.53	8.00	0.00
						6474637.72	2299371.56	8.00	0.00
						6474636.52	2299372.82	8.00	0.00
						6474635.55	2299374.27	8.00	0.00
						6474634.85	2299375.87	8.00	0.00
						6474634.44	2299377.56	8.00	0.00
						6474634.32	2299379.30	8.00	0.00
						6474636.06	2299455.69	8.00	0.00
						6474636.25	2299457.42	8.00	0.00
						6474636.74	2299459.09	8.00	0.00
						6474661.04	2299521.59	8.00	0.00
						6474661.70	2299522.96	8.00	0.00
						6474662.13	2299523.64	8.00	0.00
						6474750.67	2299652.11	8.00	0.00
						6474750.87	2299652.39	8.00	0.00
						6474905.39	2299860.73	8.00	0.00
						6474905.77	2299861.21	8.00	0.00
						6475007.31	2299981.37	8.00	0.00
						6475004.39	2300020.86	8.00	0.00
						6474872.88	2300172.60	8.00	0.00
						6474843.74	2300182.80	8.00	0.00
						6474815.32	2300174.28	8.00	0.00
						6474622.91	2299913.14	8.00	0.00
						6474453.43	2299674.49	8.00	0.00
						6474410.90	2299575.81	8.00	0.00
						6474395.50	2299491.96	8.00	0.00
						6474378.14	2299384.35	8.00	0.00
						6474377.70	2299382.67	8.00	0.00
						6474376.98	2299381.09	8.00	0.00
						6474376.00	2299379.66	8.00	0.00
						6474374.78	2299378.42	8.00	0.00
						6474373.36	2299377.41	8.00	0.00
						6474371.79	2299376.66	8.00	0.00
						6474370.12	2299376.19	8.00	0.00
						6474368.39	2299376.02	8.00	0.00
						6474366.65	2299376.15	8.00	0.00
						6474364.97	2299376.58	8.00	0.00
						6474363.38	2299377.30	8.00	0.00
						6474361.95	2299378.28	8.00	0.00
						6474360.70	2299379.50	8.00	0.00
						6474359.69	2299380.91	8.00	0.00
						6474358.93	2299382.47	8.00	0.00
						6474358.46	2299384.15	8.00	0.00
						6474358.28	2299385.88	8.00	0.00
						6474358.41	2299387.61	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6474375.77	2299495.25	8.00	0.00
						6474375.80	2299495.43	8.00	0.00
						6474391.43	2299580.53	8.00	0.00
						6474391.87	2299582.15	8.00	0.00
						6474392.08	2299582.69	8.00	0.00
						6474435.49	2299683.38	8.00	0.00
						6474436.01	2299684.42	8.00	0.00
						6474436.52	2299685.21	8.00	0.00
						6474606.71	2299924.87	8.00	0.00
						6474801.20	2300188.83	8.00	0.00
						6474802.26	2300190.04	8.00	0.00
						6474803.49	2300191.07	8.00	0.00
						6474804.88	2300191.89	8.00	0.00
						6474806.38	2300192.47	8.00	0.00
						6474841.10	2300202.89	8.00	0.00
						6474842.63	2300203.22	8.00	0.00
						6474844.20	2300203.31	8.00	0.00
						6474845.76	2300203.15	8.00	0.00
						6474847.28	2300202.75	8.00	0.00
						6474882.06	2300190.58	8.00	0.00
						6474883.62	2300189.87	8.00	0.00
						6474885.03	2300188.90	8.00	0.00
CA29	CA29	8.00	r			6473568.27	2300598.94	8.00	0.00
						6473566.53	2300598.78	8.00	0.00
						6473564.80	2300598.93	8.00	0.00
						6473563.12	2300599.38	8.00	0.00
						6473561.54	2300600.12	8.00	0.00
						6473560.11	2300601.11	8.00	0.00
						6473558.88	2300602.34	8.00	0.00
						6473557.88	2300603.77	8.00	0.00
						6473557.14	2300605.34	8.00	0.00
						6473556.69	2300607.02	8.00	0.00
						6473556.53	2300608.75	8.00	0.00
						6473556.68	2300610.49	8.00	0.00
						6473557.12	2300612.17	8.00	0.00
						6473585.01	2300689.66	8.00	0.00
						6473585.19	2300690.13	8.00	0.00
						6473613.40	2300757.40	8.00	0.00
						6473613.96	2300758.53	8.00	0.00
						6473614.76	2300759.71	8.00	0.00
						6473662.50	2300820.47	8.00	0.00
						6473662.70	2300820.72	8.00	0.00
						6473663.16	2300821.23	8.00	0.00
						6473719.58	2300879.83	8.00	0.00
						6473720.33	2300880.53	8.00	0.00
						6473846.24	2300986.89	8.00	0.00
						6474018.49	2301129.51	8.00	0.00
						6474019.92	2301130.50	8.00	0.00
						6474021.50	2301131.22	8.00	0.00
						6474023.19	2301131.66	8.00	0.00
						6474024.92	2301131.80	8.00	0.00
						6474026.66	2301131.64	8.00	0.00
						6474028.34	2301131.18	8.00	0.00
						6474029.91	2301130.44	8.00	0.00
						6474031.33	2301129.43	8.00	0.00
						6474032.56	2301128.19	8.00	0.00
						6474033.55	2301126.76	8.00	0.00
						6474034.28	2301125.18	8.00	0.00
						6474034.72	2301123.50	8.00	0.00
						6474034.86	2301121.76	8.00	0.00
						6474034.70	2301120.03	8.00	0.00
						6474034.25	2301118.35	8.00	0.00
						6474033.51	2301116.77	8.00	0.00
						6474032.50	2301115.35	8.00	0.00
						6474031.27	2301114.12	8.00	0.00
						6473859.07	2300971.56	8.00	0.00
						6473733.63	2300865.58	8.00	0.00
						6473677.92	2300807.72	8.00	0.00
						6473631.32	2300748.42	8.00	0.00
						6473603.73	2300682.63	8.00	0.00
						6473575.93	2300605.38	8.00	0.00
						6473575.32	2300604.02	8.00	0.00
						6473574.51	2300602.76	8.00	0.00
						6473573.52	2300601.63	8.00	0.00
						6473572.37	2300600.67	8.00	0.00
						6473571.10	2300599.89	8.00	0.00
						6473569.72	2300599.31	8.00	0.00

Name	ID	Height			Coordinates			
		Begin		End	x	y	z	Ground
		(ft)		(ft)	(ft)	(ft)	(ft)	(ft)
CA30	CA30	8.00	r		6473672.10	2300804.45	8.00	0.00
					6473670.44	2300804.30	8.00	0.00
					6473668.78	2300804.42	8.00	0.00
					6473667.16	2300804.82	8.00	0.00
					6473665.63	2300805.49	8.00	0.00
					6473664.23	2300806.40	8.00	0.00
					6473663.00	2300807.53	8.00	0.00
					6473613.09	2300861.78	8.00	0.00
					6473612.79	2300862.12	8.00	0.00
					6473612.45	2300862.55	8.00	0.00
					6473586.41	2300897.27	8.00	0.00
					6473585.53	2300898.68	8.00	0.00
					6473584.89	2300900.21	8.00	0.00
					6473565.36	2300960.98	8.00	0.00
					6473565.03	2300962.30	8.00	0.00
					6473564.92	2300963.17	8.00	0.00
					6473560.58	2301013.08	8.00	0.00
					6473560.54	2301014.25	8.00	0.00
					6473560.65	2301015.41	8.00	0.00
					6473560.88	2301016.55	8.00	0.00
					6473597.78	2301153.27	8.00	0.00
					6473598.34	2301154.83	8.00	0.00
					6473599.14	2301156.27	8.00	0.00
					6473600.18	2301157.55	8.00	0.00
					6473601.41	2301158.65	8.00	0.00
					6473602.81	2301159.54	8.00	0.00
					6473604.33	2301160.18	8.00	0.00
					6473605.94	2301160.56	8.00	0.00
					6473607.59	2301160.67	8.00	0.00
					6473609.23	2301160.50	8.00	0.00
					6473610.82	2301160.07	8.00	0.00
					6473612.33	2301159.39	8.00	0.00
					6473613.69	2301158.46	8.00	0.00
					6473614.89	2301157.33	8.00	0.00
					6473615.89	2301156.01	8.00	0.00
					6473616.65	2301154.54	8.00	0.00
					6473617.16	2301152.97	8.00	0.00
					6473617.41	2301151.34	8.00	0.00
					6473617.38	2301149.69	8.00	0.00
					6473617.08	2301148.06	8.00	0.00
					6473580.65	2301013.05	8.00	0.00
					6473584.74	2300966.02	8.00	0.00
					6473603.42	2300907.93	8.00	0.00
					6473628.15	2300874.95	8.00	0.00
					6473677.72	2300821.07	8.00	0.00
					6473678.73	2300819.77	8.00	0.00
					6473679.52	2300818.32	8.00	0.00
					6473680.05	2300816.77	8.00	0.00
					6473680.33	2300815.15	8.00	0.00
					6473680.33	2300813.50	8.00	0.00
					6473680.07	2300811.88	8.00	0.00
					6473679.54	2300810.32	8.00	0.00
					6473678.77	2300808.87	8.00	0.00
					6473677.76	2300807.57	8.00	0.00
					6473676.56	2300806.45	8.00	0.00
					6473675.19	2300805.54	8.00	0.00
					6473673.69	2300804.87	8.00	0.00
CA31	CA31	8.00	r		6474256.58	2300385.74	8.00	0.00
					6474254.98	2300385.59	8.00	0.00
					6474253.37	2300385.70	8.00	0.00
					6474251.81	2300386.06	8.00	0.00
					6474250.32	2300386.67	8.00	0.00
					6474248.95	2300387.51	8.00	0.00
					6474133.22	2300472.02	8.00	0.00
					6474131.90	2300473.17	8.00	0.00
					6474130.81	2300474.52	8.00	0.00
					6474129.97	2300476.05	8.00	0.00
					6474129.41	2300477.70	8.00	0.00
					6474129.14	2300479.42	8.00	0.00
					6474129.17	2300481.16	8.00	0.00
					6474129.51	2300482.87	8.00	0.00
					6474130.14	2300484.50	8.00	0.00
					6474131.04	2300485.99	8.00	0.00
					6474132.18	2300487.30	8.00	0.00
					6474133.54	2300488.40	8.00	0.00
					6474135.07	2300489.24	8.00	0.00
					6474136.72	2300489.80	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6474138.44	2300490.07	8.00	0.00
						6474140.18	2300490.04	8.00	0.00
						6474141.89	2300489.70	8.00	0.00
						6474143.52	2300489.07	8.00	0.00
						6474145.01	2300488.17	8.00	0.00
						6474260.74	2300403.66	8.00	0.00
						6474262.00	2300402.57	8.00	0.00
						6474263.06	2300401.29	8.00	0.00
						6474263.89	2300399.84	8.00	0.00
						6474264.48	2300398.28	8.00	0.00
						6474264.79	2300396.64	8.00	0.00
						6474264.83	2300394.98	8.00	0.00
						6474264.59	2300393.33	8.00	0.00
						6474264.07	2300391.74	8.00	0.00
						6474263.31	2300390.26	8.00	0.00
						6474262.30	2300388.93	8.00	0.00
						6474261.09	2300387.78	8.00	0.00
						6474259.71	2300386.85	8.00	0.00
						6474258.19	2300386.16	8.00	0.00
CA32	CA32	8.00	r			6477056.61	2299375.23	8.00	0.00
						6477054.88	2299375.08	8.00	0.00
						6477054.66	2299375.08	8.00	0.00
						6476829.33	2299380.04	8.00	0.00
						6476827.69	2299380.21	8.00	0.00
						6476826.10	2299380.65	8.00	0.00
						6476824.60	2299381.35	8.00	0.00
						6476823.24	2299382.28	8.00	0.00
						6476822.05	2299383.42	8.00	0.00
						6476821.06	2299384.75	8.00	0.00
						6476820.31	2299386.22	8.00	0.00
						6476819.81	2299387.79	8.00	0.00
						6476819.57	2299389.43	8.00	0.00
						6476819.61	2299391.08	8.00	0.00
						6476819.91	2299392.70	8.00	0.00
						6476820.48	2299394.25	8.00	0.00
						6476821.30	2299395.69	8.00	0.00
						6476822.34	2299396.97	8.00	0.00
						6476823.58	2299398.06	8.00	0.00
						6476824.99	2299398.93	8.00	0.00
						6476826.51	2299399.56	8.00	0.00
						6476828.12	2299399.93	8.00	0.00
						6476829.77	2299400.03	8.00	0.00
						6477055.10	2299395.08	8.00	0.00
						6477056.82	2299394.89	8.00	0.00
						6477058.48	2299394.41	8.00	0.00
						6477060.03	2299393.65	8.00	0.00
						6477061.43	2299392.63	8.00	0.00
						6477062.64	2299391.39	8.00	0.00
						6477063.61	2299389.96	8.00	0.00
						6477064.32	2299388.38	8.00	0.00
						6477064.74	2299386.70	8.00	0.00
						6477064.88	2299384.98	8.00	0.00
						6477064.71	2299383.25	8.00	0.00
						6477064.25	2299381.59	8.00	0.00
						6477063.50	2299380.02	8.00	0.00
						6477062.50	2299378.61	8.00	0.00
						6477061.27	2299377.39	8.00	0.00
						6477059.85	2299376.41	8.00	0.00
						6477058.28	2299375.68	8.00	0.00
CA33	CA33	8.00	r			6476843.60	2299674.36	8.00	0.00
						6476841.95	2299674.32	8.00	0.00
						6476840.31	2299674.56	8.00	0.00
						6476838.74	2299675.07	8.00	0.00
						6476837.27	2299675.82	8.00	0.00
						6476835.95	2299676.81	8.00	0.00
						6476834.81	2299678.00	8.00	0.00
						6476833.88	2299679.37	8.00	0.00
						6476833.18	2299680.87	8.00	0.00
						6476832.74	2299682.46	8.00	0.00
						6476832.57	2299684.10	8.00	0.00
						6476832.68	2299685.75	8.00	0.00
						6476833.05	2299687.36	8.00	0.00
						6476833.68	2299688.88	8.00	0.00
						6476834.56	2299690.28	8.00	0.00
						6476835.65	2299691.52	8.00	0.00
						6476836.93	2299692.56	8.00	0.00
						6476838.37	2299693.38	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6476839.92	2299693.95	8.00	0.00
						6476841.54	2299694.25	8.00	0.00
						6477053.85	2299716.21	8.00	0.00
						6477055.50	2299716.24	8.00	0.00
						6477057.13	2299716.00	8.00	0.00
						6477058.71	2299715.50	8.00	0.00
						6477060.17	2299714.74	8.00	0.00
						6477061.50	2299713.75	8.00	0.00
						6477062.64	2299712.56	8.00	0.00
						6477063.57	2299711.20	8.00	0.00
						6477064.27	2299709.70	8.00	0.00
						6477064.70	2299708.11	8.00	0.00
						6477064.87	2299706.46	8.00	0.00
						6477064.77	2299704.81	8.00	0.00
						6477064.40	2299703.21	8.00	0.00
						6477063.77	2299701.68	8.00	0.00
						6477062.89	2299700.28	8.00	0.00
						6477061.80	2299699.04	8.00	0.00
						6477060.52	2299698.00	8.00	0.00
						6477059.08	2299697.19	8.00	0.00
						6477057.53	2299696.62	8.00	0.00
						6477055.91	2299696.31	8.00	0.00
CA34	CA34	8.00	r			6476792.06	2299958.28	8.00	0.00
						6476790.33	2299958.16	8.00	0.00
						6476788.60	2299958.34	8.00	0.00
						6476786.93	2299958.81	8.00	0.00
						6476785.36	2299959.57	8.00	0.00
						6476783.95	2299960.59	8.00	0.00
						6476782.74	2299961.84	8.00	0.00
						6476781.76	2299963.27	8.00	0.00
						6476781.05	2299964.86	8.00	0.00
						6476780.62	2299966.54	8.00	0.00
						6476780.49	2299968.28	8.00	0.00
						6476780.66	2299970.01	8.00	0.00
						6476781.13	2299971.68	8.00	0.00
						6476781.88	2299973.25	8.00	0.00
						6476782.89	2299974.66	8.00	0.00
						6476784.13	2299975.88	8.00	0.00
						6476785.57	2299976.86	8.00	0.00
						6476787.15	2299977.58	8.00	0.00
						6476788.83	2299978.02	8.00	0.00
						6476983.86	2300009.10	8.00	0.00
						6476985.59	2300009.23	8.00	0.00
						6476987.32	2300009.05	8.00	0.00
						6476988.99	2300008.57	8.00	0.00
						6476990.56	2300007.81	8.00	0.00
						6476991.97	2300006.80	8.00	0.00
						6476993.18	2300005.55	8.00	0.00
						6476994.16	2300004.11	8.00	0.00
						6476994.87	2300002.53	8.00	0.00
						6476995.30	2300000.84	8.00	0.00
						6476995.43	2299999.11	8.00	0.00
						6476995.26	2299997.38	8.00	0.00
						6476994.79	2299995.70	8.00	0.00
						6476994.04	2299994.14	8.00	0.00
						6476993.03	2299992.72	8.00	0.00
						6476991.79	2299991.51	8.00	0.00
						6476990.35	2299990.52	8.00	0.00
						6476988.77	2299989.80	8.00	0.00
						6476987.09	2299989.37	8.00	0.00
CA35	CA35	8.00	r			6474479.72	2301710.91	8.00	0.00
						6474478.32	2301710.77	8.00	0.00
						6474476.91	2301710.82	8.00	0.00
						6474475.52	2301711.07	8.00	0.00
						6474474.18	2301711.52	8.00	0.00
						6474292.83	2301786.13	8.00	0.00
						6474291.35	2301786.88	8.00	0.00
						6474290.03	2301787.87	8.00	0.00
						6474288.88	2301789.06	8.00	0.00
						6474287.95	2301790.42	8.00	0.00
						6474287.25	2301791.92	8.00	0.00
						6474286.81	2301793.51	8.00	0.00
						6474286.63	2301795.15	8.00	0.00
						6474286.73	2301796.80	8.00	0.00
						6474287.10	2301798.41	8.00	0.00
						6474287.73	2301799.94	8.00	0.00
						6474288.60	2301801.34	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6474289.69	2301802.58	8.00	0.00
						6474290.97	2301803.62	8.00	0.00
						6474292.40	2301804.44	8.00	0.00
						6474293.95	2301805.01	8.00	0.00
						6474295.57	2301805.32	8.00	0.00
						6474297.23	2301805.36	8.00	0.00
						6474298.86	2301805.13	8.00	0.00
						6474300.43	2301804.63	8.00	0.00
						6474481.79	2301730.01	8.00	0.00
						6474483.32	2301729.22	8.00	0.00
						6474484.69	2301728.19	8.00	0.00
						6474485.86	2301726.93	8.00	0.00
						6474486.80	2301725.50	8.00	0.00
						6474487.48	2301723.92	8.00	0.00
						6474487.88	2301722.26	8.00	0.00
						6474487.99	2301720.54	8.00	0.00
						6474487.80	2301718.84	8.00	0.00
						6474487.33	2301717.19	8.00	0.00
						6474486.58	2301715.64	8.00	0.00
						6474485.58	2301714.25	8.00	0.00
						6474484.35	2301713.05	8.00	0.00
						6474482.94	2301712.08	8.00	0.00
						6474481.38	2301711.36	8.00	0.00
CA36	CA36	8.00	r			6484197.38	2297561.07	8.00	0.00
						6484195.65	2297560.92	8.00	0.00
						6484193.93	2297561.06	8.00	0.00
						6484192.25	2297561.51	8.00	0.00
						6484190.68	2297562.24	8.00	0.00
						6484189.25	2297563.23	8.00	0.00
						6484188.02	2297564.45	8.00	0.00
						6484187.02	2297565.87	8.00	0.00
						6484186.27	2297567.43	8.00	0.00
						6484185.81	2297569.11	8.00	0.00
						6484185.65	2297570.83	8.00	0.00
						6484185.78	2297572.56	8.00	0.00
						6484186.22	2297574.24	8.00	0.00
						6484251.57	2297759.42	8.00	0.00
						6484311.49	2297920.95	8.00	0.00
						6484311.96	2297922.03	8.00	0.00
						6484475.97	2298242.23	8.00	0.00
						6484567.05	2298432.21	8.00	0.00
						6484567.41	2298432.89	8.00	0.00
						6484568.39	2298434.29	8.00	0.00
						6484620.48	2298496.80	8.00	0.00
						6484621.48	2298497.84	8.00	0.00
						6484622.62	2298498.72	8.00	0.00
						6484623.87	2298499.43	8.00	0.00
						6484722.83	2298546.30	8.00	0.00
						6484724.32	2298546.86	8.00	0.00
						6484725.87	2298547.19	8.00	0.00
						6484809.21	2298557.60	8.00	0.00
						6484810.40	2298557.68	8.00	0.00
						6485409.66	2298560.23	8.00	0.00
						6485411.40	2298560.08	8.00	0.00
						6485413.08	2298559.63	8.00	0.00
						6485414.66	2298558.90	8.00	0.00
						6485416.09	2298557.91	8.00	0.00
						6485417.33	2298556.68	8.00	0.00
						6485418.33	2298555.25	8.00	0.00
						6485419.07	2298553.68	8.00	0.00
						6485419.53	2298551.99	8.00	0.00
						6485419.69	2298550.26	8.00	0.00
						6485419.54	2298548.52	8.00	0.00
						6485419.09	2298546.84	8.00	0.00
						6485418.36	2298545.26	8.00	0.00
						6485417.37	2298543.83	8.00	0.00
						6485416.14	2298542.59	8.00	0.00
						6485414.72	2298541.59	8.00	0.00
						6485413.14	2298540.85	8.00	0.00
						6485411.46	2298540.39	8.00	0.00
						6485409.73	2298540.23	8.00	0.00
						6484811.09	2298537.68	8.00	0.00
						6484729.94	2298527.54	8.00	0.00
						6484634.43	2298482.29	8.00	0.00
						6484584.55	2298422.44	8.00	0.00
						6484493.94	2298233.46	8.00	0.00
						6484493.83	2298233.23	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6484330.03	2297913.44	8.00	0.00
						6484270.37	2297752.61	8.00	0.00
						6484205.06	2297567.54	8.00	0.00
						6484204.45	2297566.17	8.00	0.00
						6484203.64	2297564.91	8.00	0.00
						6484202.65	2297563.78	8.00	0.00
						6484201.50	2297562.81	8.00	0.00
						6484200.22	2297562.02	8.00	0.00
						6484198.84	2297561.44	8.00	0.00
CA37	CA37	8.00	r			6488442.85	2292321.15	8.00	0.00
						6488441.12	2292321.00	8.00	0.00
						6488439.39	2292321.15	8.00	0.00
						6488437.72	2292321.59	8.00	0.00
						6488436.14	2292322.32	8.00	0.00
						6488434.72	2292323.31	8.00	0.00
						6488433.48	2292324.54	8.00	0.00
						6488432.48	2292325.95	8.00	0.00
						6488431.74	2292327.52	8.00	0.00
						6488431.28	2292329.19	8.00	0.00
						6488431.11	2292330.92	8.00	0.00
						6488426.77	2292888.69	8.00	0.00
						6488426.92	2292890.42	8.00	0.00
						6488427.36	2292892.10	8.00	0.00
						6488428.09	2292893.69	8.00	0.00
						6488429.08	2292895.12	8.00	0.00
						6488430.31	2292896.35	8.00	0.00
						6488431.73	2292897.36	8.00	0.00
						6488433.30	2292898.10	8.00	0.00
						6488434.98	2292898.56	8.00	0.00
						6488436.72	2292898.72	8.00	0.00
						6488438.45	2292898.58	8.00	0.00
						6488440.14	2292898.14	8.00	0.00
						6488441.72	2292897.42	8.00	0.00
						6488443.15	2292896.43	8.00	0.00
						6488444.39	2292895.21	8.00	0.00
						6488445.40	2292893.79	8.00	0.00
						6488446.15	2292892.21	8.00	0.00
						6488446.61	2292890.54	8.00	0.00
						6488446.77	2292888.80	8.00	0.00
						6488451.11	2292331.04	8.00	0.00
						6488451.00	2292329.49	8.00	0.00
						6488450.65	2292327.97	8.00	0.00
						6488450.06	2292326.53	8.00	0.00
						6488449.26	2292325.20	8.00	0.00
						6488448.27	2292324.01	8.00	0.00
						6488447.10	2292322.99	8.00	0.00
						6488445.78	2292322.16	8.00	0.00
						6488444.36	2292321.54	8.00	0.00
CA38	CA38	8.00	r			6488118.05	2292536.08	8.00	0.00
						6488116.32	2292535.93	8.00	0.00
						6488114.60	2292536.08	8.00	0.00
						6488112.92	2292536.52	8.00	0.00
						6488111.35	2292537.25	8.00	0.00
						6488109.93	2292538.23	8.00	0.00
						6488108.70	2292539.45	8.00	0.00
						6488107.69	2292540.86	8.00	0.00
						6488106.95	2292542.42	8.00	0.00
						6488106.48	2292544.09	8.00	0.00
						6488106.31	2292545.81	8.00	0.00
						6488102.25	2292882.22	8.00	0.00
						6488102.39	2292883.95	8.00	0.00
						6488102.83	2292885.64	8.00	0.00
						6488103.55	2292887.22	8.00	0.00
						6488104.54	2292888.65	8.00	0.00
						6488105.76	2292889.89	8.00	0.00
						6488107.18	2292890.90	8.00	0.00
						6488108.75	2292891.65	8.00	0.00
						6488110.43	2292892.11	8.00	0.00
						6488112.16	2292892.28	8.00	0.00
						6488113.89	2292892.14	8.00	0.00
						6488115.58	2292891.71	8.00	0.00
						6488117.16	2292890.99	8.00	0.00
						6488118.60	2292890.01	8.00	0.00
						6488119.84	2292888.79	8.00	0.00
						6488120.85	2292887.37	8.00	0.00
						6488121.61	2292885.81	8.00	0.00
						6488122.07	2292884.13	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6488122.25	2292882.40	8.00	0.00
						6488126.31	2292545.99	8.00	0.00
						6488126.20	2292544.44	8.00	0.00
						6488125.85	2292542.92	8.00	0.00
						6488125.26	2292541.48	8.00	0.00
						6488124.47	2292540.14	8.00	0.00
						6488123.47	2292538.95	8.00	0.00
						6488122.30	2292537.92	8.00	0.00
						6488120.98	2292537.09	8.00	0.00
						6488119.55	2292536.47	8.00	0.00
CA39	CA39	8.00	r			6488772.71	2292323.32	8.00	0.00
						6488770.99	2292323.17	8.00	0.00
						6488769.26	2292323.32	8.00	0.00
						6488767.59	2292323.76	8.00	0.00
						6488766.02	2292324.49	8.00	0.00
						6488764.59	2292325.47	8.00	0.00
						6488763.36	2292326.69	8.00	0.00
						6488762.36	2292328.10	8.00	0.00
						6488761.61	2292329.66	8.00	0.00
						6488761.15	2292331.33	8.00	0.00
						6488760.98	2292333.05	8.00	0.00
						6488754.47	2292890.87	8.00	0.00
						6488756.64	2293433.47	8.00	0.00
						6488756.64	2293433.77	8.00	0.00
						6488760.98	2293559.64	8.00	0.00
						6488761.17	2293561.28	8.00	0.00
						6488761.63	2293562.87	8.00	0.00
						6488762.35	2293564.36	8.00	0.00
						6488763.30	2293565.71	8.00	0.00
						6488764.46	2293566.88	8.00	0.00
						6488765.80	2293567.85	8.00	0.00
						6488767.28	2293568.59	8.00	0.00
						6488768.86	2293569.07	8.00	0.00
						6488770.49	2293569.29	8.00	0.00
						6488772.14	2293569.23	8.00	0.00
						6488773.76	2293568.90	8.00	0.00
						6488775.31	2293568.31	8.00	0.00
						6488776.73	2293567.48	8.00	0.00
						6488778.00	2293566.42	8.00	0.00
						6488779.07	2293565.16	8.00	0.00
						6488779.93	2293563.75	8.00	0.00
						6488780.54	2293562.22	8.00	0.00
						6488780.89	2293560.60	8.00	0.00
						6488780.97	2293558.95	8.00	0.00
						6488776.63	2293433.24	8.00	0.00
						6488774.47	2292890.93	8.00	0.00
						6488780.97	2292333.23	8.00	0.00
						6488780.86	2292331.68	8.00	0.00
						6488780.51	2292330.16	8.00	0.00
						6488779.93	2292328.72	8.00	0.00
						6488779.13	2292327.38	8.00	0.00
						6488778.13	2292326.19	8.00	0.00
						6488776.96	2292325.16	8.00	0.00
						6488775.65	2292324.33	8.00	0.00
						6488774.22	2292323.71	8.00	0.00
CA40	CA40	8.00	r			6489099.47	2292220.89	8.00	0.00
						6489097.89	2292220.74	8.00	0.00
						6489096.31	2292220.84	8.00	0.00
						6489094.76	2292221.19	8.00	0.00
						6489093.29	2292221.78	8.00	0.00
						6489091.93	2292222.60	8.00	0.00
						6489090.71	2292223.62	8.00	0.00
						6489089.68	2292224.82	8.00	0.00
						6489088.84	2292226.17	8.00	0.00
						6489088.23	2292227.63	8.00	0.00
						6489087.86	2292229.18	8.00	0.00
						6489087.74	2292230.76	8.00	0.00
						6489088.67	2292506.68	8.00	0.00
						6489082.16	2292788.67	8.00	0.00
						6489082.16	2292788.90	8.00	0.00
						6489082.16	2292789.12	8.00	0.00
						6489088.67	2293086.44	8.00	0.00
						6489097.34	2293437.71	8.00	0.00
						6489093.01	2293556.76	8.00	0.00
						6489093.10	2293558.50	8.00	0.00
						6489093.49	2293560.20	8.00	0.00
						6489094.17	2293561.81	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6489095.12	2293563.27	8.00	0.00
						6489096.30	2293564.55	8.00	0.00
						6489097.70	2293565.60	8.00	0.00
						6489099.25	2293566.39	8.00	0.00
						6489100.91	2293566.91	8.00	0.00
						6489102.64	2293567.12	8.00	0.00
						6489104.38	2293567.03	8.00	0.00
						6489106.08	2293566.64	8.00	0.00
						6489107.69	2293565.96	8.00	0.00
						6489109.15	2293565.02	8.00	0.00
						6489110.43	2293563.83	8.00	0.00
						6489111.48	2293562.44	8.00	0.00
						6489112.27	2293560.89	8.00	0.00
						6489112.78	2293559.22	8.00	0.00
						6489113.00	2293557.49	8.00	0.00
						6489117.34	2293438.13	8.00	0.00
						6489117.35	2293437.77	8.00	0.00
						6489117.34	2293437.52	8.00	0.00
						6489108.66	2293085.97	8.00	0.00
						6489102.16	2292788.90	8.00	0.00
						6489108.66	2292507.01	8.00	0.00
						6489108.67	2292506.76	8.00	0.00
						6489107.74	2292230.71	8.00	0.00
						6489107.58	2292228.97	8.00	0.00
						6489107.12	2292227.30	8.00	0.00
						6489106.38	2292225.72	8.00	0.00
						6489105.38	2292224.30	8.00	0.00
						6489104.15	2292223.07	8.00	0.00
						6489102.73	2292222.08	8.00	0.00
						6489101.15	2292221.34	8.00	0.00
CA41	CA41	8.00	r			6489456.25	2291574.66	8.00	0.00
						6489454.54	2291574.51	8.00	0.00
						6489452.82	2291574.65	8.00	0.00
						6489451.16	2291575.09	8.00	0.00
						6489449.59	2291575.81	8.00	0.00
						6489448.17	2291576.78	8.00	0.00
						6489446.94	2291577.98	8.00	0.00
						6489445.93	2291579.38	8.00	0.00
						6489445.18	2291580.92	8.00	0.00
						6489444.70	2291582.58	8.00	0.00
						6489444.52	2291584.29	8.00	0.00
						6489430.25	2292229.87	8.00	0.00
						6489430.25	2292230.09	8.00	0.00
						6489430.25	2292787.35	8.00	0.00
						6489427.64	2293323.55	8.00	0.00
						6489419.84	2293471.75	8.00	0.00
						6489419.83	2293471.97	8.00	0.00
						6489417.23	2293557.91	8.00	0.00
						6489417.33	2293559.65	8.00	0.00
						6489417.73	2293561.35	8.00	0.00
						6489418.42	2293562.95	8.00	0.00
						6489419.37	2293564.41	8.00	0.00
						6489420.57	2293565.67	8.00	0.00
						6489421.97	2293566.72	8.00	0.00
						6489423.52	2293567.50	8.00	0.00
						6489425.19	2293568.00	8.00	0.00
						6489426.92	2293568.21	8.00	0.00
						6489428.66	2293568.11	8.00	0.00
						6489430.36	2293567.71	8.00	0.00
						6489431.96	2293567.02	8.00	0.00
						6489433.42	2293566.06	8.00	0.00
						6489434.69	2293564.87	8.00	0.00
						6489435.73	2293563.47	8.00	0.00
						6489436.51	2293561.92	8.00	0.00
						6489437.02	2293560.25	8.00	0.00
						6489437.22	2293558.52	8.00	0.00
						6489439.82	2293472.69	8.00	0.00
						6489447.63	2293324.36	8.00	0.00
						6489447.64	2293323.89	8.00	0.00
						6489450.25	2292787.40	8.00	0.00
						6489450.25	2292230.20	8.00	0.00
						6489464.51	2291584.73	8.00	0.00
						6489464.42	2291583.16	8.00	0.00
						6489464.09	2291581.62	8.00	0.00
						6489463.51	2291580.15	8.00	0.00
						6489462.72	2291578.80	8.00	0.00
						6489461.72	2291577.58	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6489460.54	2291576.53	8.00	0.00
						6489459.22	2291575.69	8.00	0.00
						6489457.77	2291575.06	8.00	0.00
CA42	CA42	8.00	r			6489512.30	2291610.86	8.00	0.00
						6489510.57	2291610.71	8.00	0.00
						6489508.84	2291610.86	8.00	0.00
						6489507.17	2291611.30	8.00	0.00
						6489505.60	2291612.03	8.00	0.00
						6489504.17	2291613.02	8.00	0.00
						6489502.94	2291614.24	8.00	0.00
						6489501.94	2291615.65	8.00	0.00
						6489501.19	2291617.21	8.00	0.00
						6489500.73	2291618.88	8.00	0.00
						6489500.56	2291620.61	8.00	0.00
						6489500.69	2291622.33	8.00	0.00
						6489501.12	2291624.01	8.00	0.00
						6489501.83	2291625.59	8.00	0.00
						6489502.80	2291627.03	8.00	0.00
						6489504.01	2291628.27	8.00	0.00
						6489505.41	2291629.29	8.00	0.00
						6489506.97	2291630.05	8.00	0.00
						6489572.88	2291655.39	8.00	0.00
						6489607.14	2291687.21	8.00	0.00
						6489642.12	2291737.18	8.00	0.00
						6489662.49	2291800.84	8.00	0.00
						6489662.65	2291801.29	8.00	0.00
						6489704.08	2291910.06	8.00	0.00
						6489732.40	2292036.18	8.00	0.00
						6489740.15	2292162.86	8.00	0.00
						6489742.75	2292238.07	8.00	0.00
						6489742.75	2292519.15	8.00	0.00
						6489742.75	2293107.63	8.00	0.00
						6489737.52	2293509.13	8.00	0.00
						6489737.66	2293510.86	8.00	0.00
						6489738.09	2293512.55	8.00	0.00
						6489738.82	2293514.13	8.00	0.00
						6489739.80	2293515.56	8.00	0.00
						6489741.02	2293516.80	8.00	0.00
						6489742.44	2293517.81	8.00	0.00
						6489744.01	2293518.56	8.00	0.00
						6489745.69	2293519.03	8.00	0.00
						6489747.42	2293519.19	8.00	0.00
						6489749.15	2293519.06	8.00	0.00
						6489750.84	2293518.63	8.00	0.00
						6489752.42	2293517.91	8.00	0.00
						6489753.86	2293516.93	8.00	0.00
						6489755.10	2293515.71	8.00	0.00
						6489756.12	2293514.30	8.00	0.00
						6489756.87	2293512.73	8.00	0.00
						6489757.34	2293511.06	8.00	0.00
						6489757.51	2293509.32	8.00	0.00
						6489762.75	2293107.76	8.00	0.00
						6489762.75	2292519.15	8.00	0.00
						6489762.75	2292237.90	8.00	0.00
						6489762.74	2292237.56	8.00	0.00
						6489760.14	2292162.03	8.00	0.00
						6489760.12	2292161.77	8.00	0.00
						6489752.31	2292034.16	8.00	0.00
						6489752.18	2292033.04	8.00	0.00
						6489752.09	2292032.58	8.00	0.00
						6489723.44	2291904.98	8.00	0.00
						6489723.05	2291903.68	8.00	0.00
						6489681.46	2291794.49	8.00	0.00
						6489660.71	2291729.64	8.00	0.00
						6489660.14	2291728.25	8.00	0.00
						6489659.38	2291726.96	8.00	0.00
						6489622.92	2291674.87	8.00	0.00
						6489622.39	2291674.18	8.00	0.00
						6489621.53	2291673.28	8.00	0.00
						6489585.07	2291639.43	8.00	0.00
						6489584.09	2291638.62	8.00	0.00
						6489583.01	2291637.95	8.00	0.00
						6489581.86	2291637.42	8.00	0.00
						6489514.06	2291611.35	8.00	0.00
CA43	CA43	8.00	r			6489679.83	2291247.15	8.00	0.00
						6489678.19	2291247.00	8.00	0.00
						6489676.56	2291247.12	8.00	0.00

Name	ID	Height		Coordinates			
		Begin	End	x	y	z	Ground
		(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
				6489674.96	2291247.50	8.00	0.00
				6489673.45	2291248.14	8.00	0.00
				6489672.06	2291249.02	8.00	0.00
				6489670.84	2291250.12	8.00	0.00
				6489669.81	2291251.40	8.00	0.00
				6489669.00	2291252.83	8.00	0.00
				6489668.44	2291254.37	8.00	0.00
				6489668.14	2291255.99	8.00	0.00
				6489668.11	2291257.63	8.00	0.00
				6489668.35	2291259.25	8.00	0.00
				6489668.85	2291260.82	8.00	0.00
				6489669.60	2291262.28	8.00	0.00
				6489670.58	2291263.60	8.00	0.00
				6489858.45	2291477.38	8.00	0.00
				6489912.03	2291590.96	8.00	0.00
				6489963.69	2291711.50	8.00	0.00
				6489976.51	2291767.06	8.00	0.00
				6489976.86	2291768.23	8.00	0.00
				6489977.57	2291769.77	8.00	0.00
				6490047.03	2291891.32	8.00	0.00
				6490047.87	2291892.57	8.00	0.00
				6490122.53	2291986.32	8.00	0.00
				6490122.69	2291986.52	8.00	0.00
				6490123.87	2291987.71	8.00	0.00
				6490173.51	2292029.90	8.00	0.00
				6490193.40	2292109.46	8.00	0.00
				6490205.15	2292215.19	8.00	0.00
				6489817.94	2292226.06	8.00	0.00
				6489816.21	2292226.27	8.00	0.00
				6489814.54	2292226.76	8.00	0.00
				6489812.98	2292227.54	8.00	0.00
				6489811.58	2292228.58	8.00	0.00
				6489810.38	2292229.85	8.00	0.00
				6489809.42	2292231.31	8.00	0.00
				6489808.73	2292232.91	8.00	0.00
				6489808.33	2292234.60	8.00	0.00
				6489808.22	2292236.34	8.00	0.00
				6489808.42	2292238.07	8.00	0.00
				6489808.92	2292239.74	8.00	0.00
				6489809.70	2292241.30	8.00	0.00
				6489810.74	2292242.70	8.00	0.00
				6489812.01	2292243.90	8.00	0.00
				6489813.46	2292244.86	8.00	0.00
				6489815.06	2292245.55	8.00	0.00
				6489816.76	2292245.95	8.00	0.00
				6489818.50	2292246.06	8.00	0.00
				6490216.57	2292234.88	8.00	0.00
				6490218.21	2292234.69	8.00	0.00
				6490219.80	2292234.24	8.00	0.00
				6490221.29	2292233.54	8.00	0.00
				6490222.65	2292232.60	8.00	0.00
				6490223.83	2292231.44	8.00	0.00
				6490224.81	2292230.11	8.00	0.00
				6490225.55	2292228.64	8.00	0.00
				6490226.05	2292227.06	8.00	0.00
				6490226.27	2292225.43	8.00	0.00
				6490226.23	2292223.77	8.00	0.00
				6490213.21	2292106.59	8.00	0.00
				6490213.11	2292105.96	8.00	0.00
				6490212.97	2292105.27	8.00	0.00
				6490192.13	2292021.93	8.00	0.00
				6490191.64	2292020.46	8.00	0.00
				6490190.93	2292019.08	8.00	0.00
				6490190.01	2292017.83	8.00	0.00
				6490188.91	2292016.74	8.00	0.00
				6490137.57	2291973.10	8.00	0.00
				6490064.00	2291880.71	8.00	0.00
				6489995.67	2291761.13	8.00	0.00
				6489982.98	2291706.14	8.00	0.00
				6489982.63	2291704.97	8.00	0.00
				6489982.42	2291704.45	8.00	0.00
				6489930.34	2291582.92	8.00	0.00
				6489930.19	2291582.59	8.00	0.00
				6489875.94	2291467.57	8.00	0.00
				6489875.26	2291466.35	8.00	0.00
				6489874.41	2291465.24	8.00	0.00
				6489685.60	2291250.40	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6489684.39	2291249.23	8.00	0.00
						6489682.99	2291248.28	8.00	0.00
						6489681.46	2291247.58	8.00	0.00
CA44	CA44	8.00	r			6491614.93	2290876.37	8.00	0.00
						6491613.24	2290876.22	8.00	0.00
						6491611.56	2290876.36	8.00	0.00
						6491609.92	2290876.77	8.00	0.00
						6491608.37	2290877.46	8.00	0.00
						6491606.96	2290878.40	8.00	0.00
						6491605.73	2290879.56	8.00	0.00
						6491604.72	2290880.91	8.00	0.00
						6491603.94	2290882.42	8.00	0.00
						6491603.43	2290884.03	8.00	0.00
						6491603.20	2290885.71	8.00	0.00
						6491603.26	2290887.40	8.00	0.00
						6491636.25	2291165.18	8.00	0.00
						6491636.33	2291165.74	8.00	0.00
						6491636.60	2291166.87	8.00	0.00
						6491678.27	2291305.76	8.00	0.00
						6491678.76	2291307.07	8.00	0.00
						6491679.44	2291308.30	8.00	0.00
						6491745.41	2291410.73	8.00	0.00
						6491745.87	2291411.39	8.00	0.00
						6491931.61	2291654.42	8.00	0.00
						6492105.20	2291885.29	8.00	0.00
						6492105.47	2291885.63	8.00	0.00
						6492348.55	2292181.46	8.00	0.00
						6492349.78	2292182.69	8.00	0.00
						6492351.20	2292183.70	8.00	0.00
						6492352.77	2292184.44	8.00	0.00
						6492354.45	2292184.91	8.00	0.00
						6492356.18	2292185.07	8.00	0.00
						6492357.92	2292184.93	8.00	0.00
						6492359.60	2292184.49	8.00	0.00
						6492361.18	2292183.77	8.00	0.00
						6492362.62	2292182.78	8.00	0.00
						6492363.86	2292181.56	8.00	0.00
						6492364.87	2292180.14	8.00	0.00
						6492365.61	2292178.57	8.00	0.00
						6492366.08	2292176.89	8.00	0.00
						6492366.25	2292175.16	8.00	0.00
						6492366.11	2292173.42	8.00	0.00
						6492365.68	2292171.74	8.00	0.00
						6492364.96	2292170.16	8.00	0.00
						6492363.97	2292168.72	8.00	0.00
						6492121.05	2291873.10	8.00	0.00
						6491947.55	2291642.33	8.00	0.00
						6491762.01	2291399.57	8.00	0.00
						6491697.02	2291298.66	8.00	0.00
						6491656.01	2291161.96	8.00	0.00
						6491623.12	2290885.04	8.00	0.00
						6491622.81	2290883.48	8.00	0.00
						6491622.25	2290881.98	8.00	0.00
						6491621.46	2290880.60	8.00	0.00
						6491620.46	2290879.35	8.00	0.00
						6491619.27	2290878.28	8.00	0.00
						6491617.93	2290877.42	8.00	0.00
						6491616.47	2290876.78	8.00	0.00
CA45	CA45	8.00	r			6491594.80	2291161.61	8.00	0.00
						6491593.06	2291161.45	8.00	0.00
						6491591.67	2291161.55	8.00	0.00
						6491546.43	2291167.90	8.00	0.00
						6491356.07	2291171.36	8.00	0.00
						6491354.73	2291171.48	8.00	0.00
						6491353.41	2291171.77	8.00	0.00
						6491352.15	2291172.24	8.00	0.00
						6491166.39	2291255.57	8.00	0.00
						6491164.94	2291256.37	8.00	0.00
						6491163.65	2291257.39	8.00	0.00
						6491162.54	2291258.62	8.00	0.00
						6491161.65	2291260.01	8.00	0.00
						6491161.00	2291261.53	8.00	0.00
						6491160.61	2291263.13	8.00	0.00
						6491160.48	2291264.78	8.00	0.00
						6491160.63	2291266.42	8.00	0.00
						6491161.05	2291268.02	8.00	0.00
						6491161.73	2291269.53	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6491162.64	2291270.90	8.00	0.00
						6491163.77	2291272.11	8.00	0.00
						6491165.08	2291273.11	8.00	0.00
						6491166.54	2291273.88	8.00	0.00
						6491168.11	2291274.41	8.00	0.00
						6491169.74	2291274.67	8.00	0.00
						6491171.39	2291274.65	8.00	0.00
						6491173.02	2291274.37	8.00	0.00
						6491174.58	2291273.82	8.00	0.00
						6491358.47	2291191.32	8.00	0.00
						6491547.40	2291187.89	8.00	0.00
						6491548.61	2291187.79	8.00	0.00
						6491594.45	2291181.36	8.00	0.00
						6491596.07	2291180.99	8.00	0.00
						6491597.61	2291180.36	8.00	0.00
						6491599.02	2291179.48	8.00	0.00
						6491600.27	2291178.39	8.00	0.00
						6491601.32	2291177.10	8.00	0.00
						6491602.14	2291175.65	8.00	0.00
						6491602.71	2291174.09	8.00	0.00
						6491603.01	2291172.46	8.00	0.00
						6491603.04	2291170.80	8.00	0.00
						6491602.80	2291169.16	8.00	0.00
						6491602.28	2291167.58	8.00	0.00
						6491601.51	2291166.10	8.00	0.00
						6491600.51	2291164.78	8.00	0.00
						6491599.30	2291163.64	8.00	0.00
						6491597.92	2291162.71	8.00	0.00
						6491596.41	2291162.03	8.00	0.00
CA46	CA46	8.00	r			6491500.66	2291515.27	8.00	0.00
						6491573.10	2291488.32	8.00	0.00
						6491645.71	2291491.70	8.00	0.00
						6491647.37	2291491.64	8.00	0.00
						6491648.99	2291491.30	8.00	0.00
						6491650.54	2291490.71	8.00	0.00
						6491651.97	2291489.86	8.00	0.00
						6491708.29	2291449.89	8.00	0.00
						6491709.62	2291448.76	8.00	0.00
						6491710.73	2291447.42	8.00	0.00
						6491711.59	2291445.90	8.00	0.00
						6491712.18	2291444.26	8.00	0.00
						6491712.47	2291442.54	8.00	0.00
						6491712.46	2291440.80	8.00	0.00
						6491712.14	2291439.09	8.00	0.00
						6491711.54	2291437.45	8.00	0.00
						6491710.66	2291435.95	8.00	0.00
						6491709.53	2291434.62	8.00	0.00
						6491708.19	2291433.51	8.00	0.00
						6491706.67	2291432.65	8.00	0.00
						6491705.03	2291432.06	8.00	0.00
						6491703.31	2291431.77	8.00	0.00
						6491701.57	2291431.78	8.00	0.00
						6491699.85	2291432.09	8.00	0.00
						6491698.22	2291432.70	8.00	0.00
						6491696.71	2291433.58	8.00	0.00
						6491643.20	2291471.56	8.00	0.00
						6491571.99	2291468.25	8.00	0.00
						6491570.66	2291468.27	8.00	0.00
						6491569.35	2291468.48	8.00	0.00
						6491568.07	2291468.85	8.00	0.00
						6491493.38	2291496.64	8.00	0.00
						6491492.78	2291496.89	8.00	0.00
						6491326.12	2291571.54	8.00	0.00
						6491324.60	2291572.39	8.00	0.00
						6491323.24	2291573.49	8.00	0.00
						6491322.10	2291574.81	8.00	0.00
						6491321.21	2291576.30	8.00	0.00
						6491320.59	2291577.93	8.00	0.00
						6491320.26	2291579.64	8.00	0.00
						6491320.23	2291581.39	8.00	0.00
						6491320.51	2291583.11	8.00	0.00
						6491321.08	2291584.75	8.00	0.00
						6491321.93	2291586.28	8.00	0.00
						6491323.03	2291587.63	8.00	0.00
						6491324.35	2291588.77	8.00	0.00
						6491325.84	2291589.66	8.00	0.00
						6491327.47	2291590.28	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6491329.18	2291590.61	8.00	0.00
						6491330.93	2291590.64	8.00	0.00
						6491332.65	2291590.36	8.00	0.00
						6491334.29	2291589.79	8.00	0.00
CA47	CA47	8.00	r			6491906.52	2291664.05	8.00	0.00
						6491904.91	2291663.90	8.00	0.00
						6491903.30	2291664.00	8.00	0.00
						6491901.73	2291664.37	8.00	0.00
						6491900.24	2291664.99	8.00	0.00
						6491898.87	2291665.83	8.00	0.00
						6491856.91	2291696.60	8.00	0.00
						6491698.82	2291744.71	8.00	0.00
						6491698.27	2291744.89	8.00	0.00
						6491603.44	2291780.30	8.00	0.00
						6491601.93	2291781.01	8.00	0.00
						6491600.45	2291782.05	8.00	0.00
						6491552.86	2291823.08	8.00	0.00
						6491481.70	2291883.82	8.00	0.00
						6491480.48	2291885.07	8.00	0.00
						6491479.49	2291886.50	8.00	0.00
						6491478.77	2291888.08	8.00	0.00
						6491478.33	2291889.77	8.00	0.00
						6491478.19	2291891.50	8.00	0.00
						6491478.36	2291893.24	8.00	0.00
						6491478.82	2291894.91	8.00	0.00
						6491479.56	2291896.49	8.00	0.00
						6491480.57	2291897.91	8.00	0.00
						6491481.81	2291899.13	8.00	0.00
						6491483.24	2291900.12	8.00	0.00
						6491484.82	2291900.85	8.00	0.00
						6491486.51	2291901.29	8.00	0.00
						6491488.24	2291901.43	8.00	0.00
						6491489.98	2291901.27	8.00	0.00
						6491491.66	2291900.81	8.00	0.00
						6491493.23	2291900.07	8.00	0.00
						6491494.65	2291899.06	8.00	0.00
						6491565.88	2291838.26	8.00	0.00
						6491612.11	2291798.41	8.00	0.00
						6491704.94	2291763.75	8.00	0.00
						6491864.37	2291715.23	8.00	0.00
						6491865.93	2291714.61	8.00	0.00
						6491867.37	2291713.73	8.00	0.00
						6491910.69	2291681.96	8.00	0.00
						6491911.95	2291680.87	8.00	0.00
						6491913.01	2291679.58	8.00	0.00
						6491913.84	2291678.13	8.00	0.00
						6491914.41	2291676.57	8.00	0.00
						6491914.73	2291674.94	8.00	0.00
						6491914.76	2291673.27	8.00	0.00
						6491914.52	2291671.62	8.00	0.00
						6491914.01	2291670.04	8.00	0.00
						6491913.24	2291668.56	8.00	0.00
						6491912.24	2291667.23	8.00	0.00
						6491911.03	2291666.09	8.00	0.00
						6491909.64	2291665.16	8.00	0.00
						6491908.13	2291664.47	8.00	0.00
CA48	CA48	8.00	r			6491913.54	2290876.37	8.00	0.00
						6491911.86	2290876.22	8.00	0.00
						6491910.18	2290876.35	8.00	0.00
						6491908.54	2290876.77	8.00	0.00
						6491907.00	2290877.45	8.00	0.00
						6491905.59	2290878.38	8.00	0.00
						6491904.37	2290879.54	8.00	0.00
						6491903.35	2290880.88	8.00	0.00
						6491902.57	2290882.38	8.00	0.00
						6491902.06	2290883.98	8.00	0.00
						6491901.82	2290885.65	8.00	0.00
						6491893.14	2291038.43	8.00	0.00
						6491893.16	2291039.86	8.00	0.00
						6491893.38	2291041.26	8.00	0.00
						6491893.80	2291042.62	8.00	0.00
						6491954.57	2291198.87	8.00	0.00
						6491955.23	2291200.25	8.00	0.00
						6491955.77	2291201.09	8.00	0.00
						6491995.70	2291256.64	8.00	0.00
						6491995.97	2291257.01	8.00	0.00
						6492153.91	2291456.60	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6492348.31	2291710.01	8.00	0.00
						6492528.86	2291946.12	8.00	0.00
						6492529.00	2291946.30	8.00	0.00
						6492733.87	2292201.51	8.00	0.00
						6492735.07	2292202.77	8.00	0.00
						6492736.48	2292203.80	8.00	0.00
						6492738.04	2292204.57	8.00	0.00
						6492739.71	2292205.06	8.00	0.00
						6492741.45	2292205.25	8.00	0.00
						6492743.19	2292205.13	8.00	0.00
						6492744.88	2292204.72	8.00	0.00
						6492746.47	2292204.02	8.00	0.00
						6492747.92	2292203.05	8.00	0.00
						6492749.18	2292201.84	8.00	0.00
						6492750.21	2292200.44	8.00	0.00
						6492750.98	2292198.87	8.00	0.00
						6492751.47	2292197.20	8.00	0.00
						6492751.66	2292195.47	8.00	0.00
						6492751.55	2292193.73	8.00	0.00
						6492751.13	2292192.03	8.00	0.00
						6492750.43	2292190.44	8.00	0.00
						6492749.46	2292188.99	8.00	0.00
						6492544.67	2291933.87	8.00	0.00
						6492364.19	2291697.85	8.00	0.00
						6492169.69	2291444.31	8.00	0.00
						6492011.80	2291244.78	8.00	0.00
						6491972.75	2291190.44	8.00	0.00
						6491913.23	2291037.40	8.00	0.00
						6491921.79	2290886.79	8.00	0.00
						6491921.75	2290885.18	8.00	0.00
						6491921.45	2290883.59	8.00	0.00
						6491920.90	2290882.07	8.00	0.00
						6491920.12	2290880.67	8.00	0.00
						6491919.12	2290879.40	8.00	0.00
						6491917.93	2290878.31	8.00	0.00
						6491916.57	2290877.43	8.00	0.00
						6491915.10	2290876.78	8.00	0.00
CA49	CA49	8.00	r			6490774.65	2289416.30	8.00	0.00
						6490772.98	2289416.15	8.00	0.00
						6490771.30	2289416.28	8.00	0.00
						6490769.67	2289416.69	8.00	0.00
						6490768.13	2289417.37	8.00	0.00
						6490766.73	2289418.29	8.00	0.00
						6490765.50	2289419.44	8.00	0.00
						6490764.48	2289420.78	8.00	0.00
						6490763.70	2289422.27	8.00	0.00
						6490763.18	2289423.87	8.00	0.00
						6490762.93	2289425.53	8.00	0.00
						6490762.97	2289427.21	8.00	0.00
						6490763.29	2289428.86	8.00	0.00
						6490763.88	2289430.43	8.00	0.00
						6490764.72	2289431.89	8.00	0.00
						6490765.80	2289433.18	8.00	0.00
						6490767.07	2289434.27	8.00	0.00
						6490964.99	2289576.63	8.00	0.00
						6490965.21	2289576.78	8.00	0.00
						6491192.39	2289731.13	8.00	0.00
						6491466.46	2289942.75	8.00	0.00
						6491466.74	2289942.96	8.00	0.00
						6491546.39	2290000.10	8.00	0.00
						6491623.66	2290061.91	8.00	0.00
						6491697.30	2290144.12	8.00	0.00
						6491779.82	2290266.19	8.00	0.00
						6491838.34	2290390.10	8.00	0.00
						6491855.34	2290436.00	8.00	0.00
						6491898.39	2290616.82	8.00	0.00
						6491905.27	2290747.47	8.00	0.00
						6491901.81	2290885.97	8.00	0.00
						6491901.90	2290887.62	8.00	0.00
						6491902.27	2290889.23	8.00	0.00
						6491902.89	2290890.76	8.00	0.00
						6491903.76	2290892.16	8.00	0.00
						6491904.85	2290893.41	8.00	0.00
						6491906.13	2290894.45	8.00	0.00
						6491907.56	2290895.28	8.00	0.00
						6491909.11	2290895.85	8.00	0.00
						6491910.73	2290896.16	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6491912.38	2290896.21	8.00	0.00
						6491914.01	2290895.97	8.00	0.00
						6491915.59	2290895.48	8.00	0.00
						6491917.06	2290894.73	8.00	0.00
						6491918.39	2290893.75	8.00	0.00
						6491919.54	2290892.56	8.00	0.00
						6491920.48	2290891.20	8.00	0.00
						6491921.18	2290889.70	8.00	0.00
						6491921.62	2290888.11	8.00	0.00
						6491921.80	2290886.47	8.00	0.00
						6491925.27	2290747.58	8.00	0.00
						6491925.28	2290747.33	8.00	0.00
						6491925.26	2290746.81	8.00	0.00
						6491918.32	2290614.86	8.00	0.00
						6491918.18	2290613.65	8.00	0.00
						6491918.06	2290613.07	8.00	0.00
						6491874.66	2290430.78	8.00	0.00
						6491874.31	2290429.65	8.00	0.00
						6491856.94	2290382.75	8.00	0.00
						6491856.61	2290381.95	8.00	0.00
						6491797.58	2290256.95	8.00	0.00
						6491797.20	2290256.22	8.00	0.00
						6491796.82	2290255.62	8.00	0.00
						6491713.49	2290132.36	8.00	0.00
						6491712.87	2290131.53	8.00	0.00
						6491712.65	2290131.29	8.00	0.00
						6491638.00	2290047.95	8.00	0.00
						6491636.98	2290046.96	8.00	0.00
						6491636.80	2290046.82	8.00	0.00
						6491558.67	2289984.32	8.00	0.00
						6491558.26	2289984.00	8.00	0.00
						6491478.54	2289926.81	8.00	0.00
						6491204.37	2289715.11	8.00	0.00
						6491203.88	2289714.76	8.00	0.00
						6490976.56	2289560.32	8.00	0.00
						6490778.75	2289418.03	8.00	0.00
						6490777.48	2289417.25	8.00	0.00
						6490776.10	2289416.67	8.00	0.00
CA50	CA50	8.00	r			6491265.97	2289385.05	8.00	0.00
						6491264.33	2289384.90	8.00	0.00
						6491262.68	2289385.02	8.00	0.00
						6491261.08	2289385.41	8.00	0.00
						6491259.56	2289386.06	8.00	0.00
						6491258.17	2289386.95	8.00	0.00
						6491256.94	2289388.06	8.00	0.00
						6491255.92	2289389.35	8.00	0.00
						6491255.12	2289390.80	8.00	0.00
						6491254.56	2289392.35	8.00	0.00
						6491254.28	2289393.98	8.00	0.00
						6491254.26	2289395.63	8.00	0.00
						6491254.52	2289397.26	8.00	0.00
						6491255.04	2289398.83	8.00	0.00
						6491255.81	2289400.29	8.00	0.00
						6491294.05	2289460.15	8.00	0.00
						6491290.75	2289547.71	8.00	0.00
						6491274.27	2289600.44	8.00	0.00
						6491190.15	2289717.18	8.00	0.00
						6491189.30	2289718.60	8.00	0.00
						6491188.69	2289720.13	8.00	0.00
						6491188.34	2289721.75	8.00	0.00
						6491188.27	2289723.40	8.00	0.00
						6491188.47	2289725.04	8.00	0.00
						6491188.93	2289726.62	8.00	0.00
						6491189.65	2289728.11	8.00	0.00
						6491190.60	2289729.46	8.00	0.00
						6491191.76	2289730.63	8.00	0.00
						6491193.10	2289731.60	8.00	0.00
						6491194.59	2289732.33	8.00	0.00
						6491196.17	2289732.81	8.00	0.00
						6491197.80	2289733.02	8.00	0.00
						6491199.45	2289732.96	8.00	0.00
						6491201.07	2289732.62	8.00	0.00
						6491202.61	2289732.03	8.00	0.00
						6491204.04	2289731.19	8.00	0.00
						6491205.30	2289730.13	8.00	0.00
						6491206.37	2289728.87	8.00	0.00
						6491291.44	2289610.82	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6491292.27	2289609.44	8.00	0.00
						6491292.88	2289607.95	8.00	0.00
						6491310.24	2289552.40	8.00	0.00
						6491310.54	2289551.15	8.00	0.00
						6491310.68	2289549.79	8.00	0.00
						6491314.16	2289457.78	8.00	0.00
						6491314.10	2289456.27	8.00	0.00
						6491313.81	2289454.78	8.00	0.00
						6491313.31	2289453.35	8.00	0.00
						6491312.59	2289452.02	8.00	0.00
						6491272.66	2289389.52	8.00	0.00
						6491271.66	2289388.20	8.00	0.00
						6491270.45	2289387.07	8.00	0.00
						6491269.08	2289386.15	8.00	0.00
						6491267.57	2289385.47	8.00	0.00
CA51	CA51	8.00	r			6490773.56	2289787.83	8.00	0.00
						6490771.87	2289787.68	8.00	0.00
						6490770.17	2289787.82	8.00	0.00
						6490768.52	2289788.25	8.00	0.00
						6490766.96	2289788.95	8.00	0.00
						6490765.55	2289789.90	8.00	0.00
						6490764.32	2289791.08	8.00	0.00
						6490763.31	2289792.45	8.00	0.00
						6490762.54	2289793.98	8.00	0.00
						6490762.05	2289795.61	8.00	0.00
						6490761.84	2289797.30	8.00	0.00
						6490761.92	2289799.00	8.00	0.00
						6490762.28	2289800.67	8.00	0.00
						6490762.93	2289802.24	8.00	0.00
						6490763.83	2289803.69	8.00	0.00
						6490764.97	2289804.96	8.00	0.00
						6490766.31	2289806.02	8.00	0.00
						6491067.46	2290005.48	8.00	0.00
						6491310.04	2290190.89	8.00	0.00
						6491411.75	2290277.08	8.00	0.00
						6491495.53	2290371.12	8.00	0.00
						6491553.56	2290482.06	8.00	0.00
						6491587.75	2290593.17	8.00	0.00
						6491605.00	2290736.38	8.00	0.00
						6491605.36	2290738.08	8.00	0.00
						6491606.01	2290739.70	8.00	0.00
						6491606.93	2290741.18	8.00	0.00
						6491608.09	2290742.48	8.00	0.00
						6491609.46	2290743.55	8.00	0.00
						6491611.00	2290744.38	8.00	0.00
						6491612.66	2290744.92	8.00	0.00
						6491614.38	2290745.17	8.00	0.00
						6491616.12	2290745.11	8.00	0.00
						6491617.83	2290744.75	8.00	0.00
						6491619.45	2290744.10	8.00	0.00
						6491620.93	2290743.18	8.00	0.00
						6491622.23	2290742.02	8.00	0.00
						6491623.30	2290740.65	8.00	0.00
						6491624.12	2290739.11	8.00	0.00
						6491624.67	2290737.45	8.00	0.00
						6491624.91	2290735.73	8.00	0.00
						6491624.86	2290733.98	8.00	0.00
						6491607.49	2290589.89	8.00	0.00
						6491607.41	2290589.35	8.00	0.00
						6491607.12	2290588.14	8.00	0.00
						6491572.40	2290475.29	8.00	0.00
						6491572.24	2290474.82	8.00	0.00
						6491571.71	2290473.60	8.00	0.00
						6491512.68	2290360.75	8.00	0.00
						6491512.04	2290359.70	8.00	0.00
						6491511.28	2290358.74	8.00	0.00
						6491426.21	2290263.25	8.00	0.00
						6491425.21	2290262.27	8.00	0.00
						6491322.76	2290175.45	8.00	0.00
						6491322.39	2290175.15	8.00	0.00
						6491079.33	2289989.39	8.00	0.00
						6491078.78	2289989.00	8.00	0.00
						6490777.35	2289789.34	8.00	0.00
						6490776.16	2289788.67	8.00	0.00
						6490774.89	2289788.16	8.00	0.00
CA52	CA52	8.00	r			6490774.65	2289416.30	8.00	0.00
						6490772.92	2289416.15	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6490771.18	2289416.30	8.00	0.00
						6490769.50	2289416.75	8.00	0.00
						6490767.92	2289417.49	8.00	0.00
						6490766.50	2289418.48	8.00	0.00
						6490765.26	2289419.71	8.00	0.00
						6490764.26	2289421.13	8.00	0.00
						6490763.52	2289422.71	8.00	0.00
						6490763.07	2289424.39	8.00	0.00
						6490762.91	2289426.12	8.00	0.00
						6490761.83	2289797.65	8.00	0.00
						6490760.54	2290212.59	8.00	0.00
						6490759.44	2290551.01	8.00	0.00
						6490754.38	2290744.96	8.00	0.00
						6490754.49	2290746.70	8.00	0.00
						6490754.89	2290748.39	8.00	0.00
						6490755.59	2290749.99	8.00	0.00
						6490756.55	2290751.45	8.00	0.00
						6490757.75	2290752.71	8.00	0.00
						6490759.15	2290753.75	8.00	0.00
						6490760.71	2290754.53	8.00	0.00
						6490762.38	2290755.02	8.00	0.00
						6490764.11	2290755.22	8.00	0.00
						6490765.85	2290755.11	8.00	0.00
						6490767.55	2290754.70	8.00	0.00
						6490769.15	2290754.01	8.00	0.00
						6490770.60	2290753.05	8.00	0.00
						6490771.87	2290751.85	8.00	0.00
						6490772.90	2290750.45	8.00	0.00
						6490773.68	2290748.89	8.00	0.00
						6490774.17	2290747.21	8.00	0.00
						6490774.37	2290745.48	8.00	0.00
						6490779.44	2290551.41	8.00	0.00
						6490779.44	2290551.18	8.00	0.00
						6490780.54	2290212.66	8.00	0.00
						6490781.83	2289797.71	8.00	0.00
						6490782.91	2289426.17	8.00	0.00
						6490782.80	2289424.62	8.00	0.00
						6490782.44	2289423.11	8.00	0.00
						6490781.85	2289421.67	8.00	0.00
						6490781.05	2289420.34	8.00	0.00
						6490780.06	2289419.15	8.00	0.00
						6490778.89	2289418.13	8.00	0.00
						6490777.58	2289417.31	8.00	0.00
						6490776.15	2289416.69	8.00	0.00
CA53	CA53	8.00	r			6491075.00	2289987.48	8.00	0.00
						6491073.27	2289987.33	8.00	0.00
						6491071.53	2289987.48	8.00	0.00
						6491069.86	2289987.93	8.00	0.00
						6491068.28	2289988.66	8.00	0.00
						6491066.85	2289989.66	8.00	0.00
						6491065.62	2289990.88	8.00	0.00
						6491064.62	2289992.30	8.00	0.00
						6491063.88	2289993.87	8.00	0.00
						6491063.42	2289995.55	8.00	0.00
						6491063.26	2289997.28	8.00	0.00
						6491061.53	2290327.20	8.00	0.00
						6491063.26	2290598.06	8.00	0.00
						6491063.26	2290733.90	8.00	0.00
						6490764.33	2290735.22	8.00	0.00
						6490762.60	2290735.38	8.00	0.00
						6490760.92	2290735.84	8.00	0.00
						6490759.34	2290736.58	8.00	0.00
						6490757.92	2290737.59	8.00	0.00
						6490756.69	2290738.82	8.00	0.00
						6490755.70	2290740.25	8.00	0.00
						6490754.97	2290741.83	8.00	0.00
						6490754.52	2290743.52	8.00	0.00
						6490754.38	2290745.25	8.00	0.00
						6490754.53	2290746.99	8.00	0.00
						6490754.99	2290748.67	8.00	0.00
						6490755.73	2290750.25	8.00	0.00
						6490756.73	2290751.67	8.00	0.00
						6490757.97	2290752.90	8.00	0.00
						6490759.40	2290753.89	8.00	0.00
						6490760.98	2290754.63	8.00	0.00
						6490762.66	2290755.07	8.00	0.00
						6490764.40	2290755.22	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6491073.31	2290753.86	8.00	0.00
						6491075.04	2290753.70	8.00	0.00
						6491076.71	2290753.25	8.00	0.00
						6491078.29	2290752.51	8.00	0.00
						6491079.71	2290751.51	8.00	0.00
						6491080.93	2290750.27	8.00	0.00
						6491081.93	2290748.85	8.00	0.00
						6491082.66	2290747.27	8.00	0.00
						6491083.11	2290745.59	8.00	0.00
						6491083.26	2290743.86	8.00	0.00
						6491083.26	2290598.00	8.00	0.00
						6491081.53	2290327.19	8.00	0.00
						6491083.26	2289997.36	8.00	0.00
						6491083.14	2289995.81	8.00	0.00
						6491082.79	2289994.30	8.00	0.00
						6491082.21	2289992.86	8.00	0.00
						6491081.41	2289991.53	8.00	0.00
						6491080.41	2289990.34	8.00	0.00
						6491079.24	2289989.32	8.00	0.00
						6491077.93	2289988.49	8.00	0.00
						6491076.50	2289987.87	8.00	0.00
CA54	CA54	8.00	r			6491580.21	2289077.66	8.00	0.00
						6491578.47	2289077.50	8.00	0.00
						6491576.73	2289077.66	8.00	0.00
						6491575.05	2289078.11	8.00	0.00
						6491573.47	2289078.84	8.00	0.00
						6491572.04	2289079.84	8.00	0.00
						6491570.81	2289081.08	8.00	0.00
						6491569.81	2289082.50	8.00	0.00
						6491569.07	2289084.08	8.00	0.00
						6491568.62	2289085.77	8.00	0.00
						6491568.47	2289087.50	8.00	0.00
						6491568.47	2289353.31	8.00	0.00
						6491573.68	2289707.63	8.00	0.00
						6491575.36	2289763.22	8.00	0.00
						6491560.85	2289806.75	8.00	0.00
						6491464.72	2289928.64	8.00	0.00
						6491463.80	2289930.02	8.00	0.00
						6491463.13	2289931.52	8.00	0.00
						6491462.71	2289933.12	8.00	0.00
						6491462.57	2289934.77	8.00	0.00
						6491462.69	2289936.42	8.00	0.00
						6491463.09	2289938.02	8.00	0.00
						6491463.74	2289939.54	8.00	0.00
						6491464.64	2289940.92	8.00	0.00
						6491465.75	2289942.15	8.00	0.00
						6491467.04	2289943.17	8.00	0.00
						6491468.49	2289943.96	8.00	0.00
						6491470.05	2289944.51	8.00	0.00
						6491471.68	2289944.79	8.00	0.00
						6491473.33	2289944.80	8.00	0.00
						6491474.96	2289944.54	8.00	0.00
						6491476.52	2289944.02	8.00	0.00
						6491477.98	2289943.24	8.00	0.00
						6491479.29	2289942.23	8.00	0.00
						6491480.42	2289941.03	8.00	0.00
						6491577.64	2289817.76	8.00	0.00
						6491578.59	2289816.32	8.00	0.00
						6491579.28	2289814.73	8.00	0.00
						6491594.90	2289767.86	8.00	0.00
						6491595.21	2289766.72	8.00	0.00
						6491595.38	2289765.56	8.00	0.00
						6491595.41	2289764.39	8.00	0.00
						6491593.68	2289707.18	8.00	0.00
						6491588.47	2289353.16	8.00	0.00
						6491588.47	2289087.50	8.00	0.00
						6491588.35	2289085.96	8.00	0.00
						6491587.99	2289084.45	8.00	0.00
						6491587.41	2289083.02	8.00	0.00
						6491586.60	2289081.69	8.00	0.00
						6491585.61	2289080.50	8.00	0.00
						6491584.44	2289079.48	8.00	0.00
						6491583.13	2289078.66	8.00	0.00
						6491581.71	2289078.04	8.00	0.00
CA55	CA55	8.00	r			6491509.07	2288423.79	8.00	0.00
						6491575.36	2288398.14	8.00	0.00
						6491666.34	2288385.44	8.00	0.00

Name	ID	Height		Coordinates			
		Begin	End	x	y	z	Ground
		(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
				6491684.55	2288387.26	8.00	0.00
				6491727.17	2288413.64	8.00	0.00
				6491763.00	2288449.48	8.00	0.00
				6491791.53	2288482.08	8.00	0.00
				6491827.46	2288634.26	8.00	0.00
				6491823.34	2288673.37	8.00	0.00
				6491808.22	2288751.15	8.00	0.00
				6491808.05	2288752.98	8.00	0.00
				6491808.05	2288826.76	8.00	0.00
				6491808.09	2288827.67	8.00	0.00
				6491812.43	2288875.41	8.00	0.00
				6491812.53	2288876.15	8.00	0.00
				6491819.05	2288915.26	8.00	0.00
				6491819.49	2288916.94	8.00	0.00
				6491820.22	2288918.52	8.00	0.00
				6491821.21	2288919.95	8.00	0.00
				6491822.43	2288921.19	8.00	0.00
				6491823.85	2288922.20	8.00	0.00
				6491825.42	2288922.94	8.00	0.00
				6491827.10	2288923.40	8.00	0.00
				6491828.84	2288923.57	8.00	0.00
				6491830.57	2288923.43	8.00	0.00
				6491832.26	2288922.99	8.00	0.00
				6491833.84	2288922.26	8.00	0.00
				6491835.27	2288921.28	8.00	0.00
				6491836.51	2288920.06	8.00	0.00
				6491837.52	2288918.64	8.00	0.00
				6491838.27	2288917.07	8.00	0.00
				6491838.74	2288915.39	8.00	0.00
				6491838.90	2288913.66	8.00	0.00
				6491838.77	2288911.92	8.00	0.00
				6491832.32	2288873.23	8.00	0.00
				6491828.05	2288826.31	8.00	0.00
				6491828.05	2288753.94	8.00	0.00
				6491843.08	2288676.67	8.00	0.00
				6491843.19	2288675.90	8.00	0.00
				6491847.53	2288634.66	8.00	0.00
				6491847.56	2288632.98	8.00	0.00
				6491847.32	2288631.32	8.00	0.00
				6491810.42	2288475.07	8.00	0.00
				6491809.94	2288473.56	8.00	0.00
				6491809.22	2288472.14	8.00	0.00
				6491808.28	2288470.86	8.00	0.00
				6491777.84	2288436.06	8.00	0.00
				6491777.38	2288435.57	8.00	0.00
				6491740.49	2288398.68	8.00	0.00
				6491739.85	2288398.09	8.00	0.00
				6491738.68	2288397.25	8.00	0.00
				6491693.11	2288369.04	8.00	0.00
				6491691.76	2288368.34	8.00	0.00
				6491690.33	2288367.86	8.00	0.00
				6491688.84	2288367.59	8.00	0.00
				6491667.14	2288365.42	8.00	0.00
				6491666.14	2288365.37	8.00	0.00
				6491664.76	2288365.47	8.00	0.00
				6491571.45	2288378.49	8.00	0.00
				6491571.09	2288378.54	8.00	0.00
				6491569.31	2288379.03	8.00	0.00
				6491503.60	2288404.47	8.00	0.00
				6491388.27	2288406.60	8.00	0.00
				6491145.31	2288406.60	8.00	0.00
				6491143.57	2288406.76	8.00	0.00
				6491142.68	2288406.96	8.00	0.00
				6491094.94	2288419.98	8.00	0.00
				6491093.60	2288420.45	8.00	0.00
				6491092.34	2288421.10	8.00	0.00
				6491025.07	2288462.33	8.00	0.00
				6491023.86	2288463.20	8.00	0.00
				6491022.79	2288464.25	8.00	0.00
				6490975.04	2288518.50	8.00	0.00
				6490974.89	2288518.68	8.00	0.00
				6490974.05	2288519.85	8.00	0.00
				6490945.83	2288565.42	8.00	0.00
				6490945.68	2288565.68	8.00	0.00
				6490945.01	2288567.07	8.00	0.00
				6490918.93	2288634.44	8.00	0.00
				6490918.45	2288636.22	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6490918.30	2288637.73	8.00	0.00
						6490911.79	2288922.02	8.00	0.00
						6490911.79	2288922.25	8.00	0.00
						6490911.79	2288922.56	8.00	0.00
						6490918.50	2289134.01	8.00	0.00
						6490918.69	2289135.66	8.00	0.00
						6490919.15	2289137.24	8.00	0.00
						6490919.86	2289138.73	8.00	0.00
						6490920.81	2289140.09	8.00	0.00
						6490921.96	2289141.27	8.00	0.00
						6490923.30	2289142.24	8.00	0.00
						6490924.77	2289142.98	8.00	0.00
						6490926.35	2289143.46	8.00	0.00
						6490927.99	2289143.68	8.00	0.00
						6490929.64	2289143.63	8.00	0.00
						6490931.26	2289143.31	8.00	0.00
						6490932.80	2289142.72	8.00	0.00
						6490934.23	2289141.89	8.00	0.00
						6490935.50	2289140.84	8.00	0.00
						6490936.58	2289139.59	8.00	0.00
						6490937.44	2289138.18	8.00	0.00
						6490938.05	2289136.64	8.00	0.00
						6490938.41	2289135.03	8.00	0.00
						6490938.49	2289133.38	8.00	0.00
						6490931.79	2288922.20	8.00	0.00
						6490938.25	2288639.94	8.00	0.00
						6490963.33	2288575.16	8.00	0.00
						6490990.61	2288531.09	8.00	0.00
						6491036.80	2288478.60	8.00	0.00
						6491101.58	2288438.90	8.00	0.00
						6491146.65	2288426.60	8.00	0.00
						6491388.46	2288426.60	8.00	0.00
						6491505.74	2288424.43	8.00	0.00
						6491507.29	2288424.28	8.00	0.00
CA56	CA56	8.00	r			6492113.03	2288869.82	8.00	0.00
						6492111.72	2288869.68	8.00	0.00
						6492110.40	2288869.71	8.00	0.00
						6492109.10	2288869.91	8.00	0.00
						6492107.84	2288870.29	8.00	0.00
						6491853.63	2288964.96	8.00	0.00
						6491853.30	2288965.09	8.00	0.00
						6491754.33	2289005.96	8.00	0.00
						6491576.41	2289043.10	8.00	0.00
						6491260.35	2289109.96	8.00	0.00
						6490928.38	2289185.90	8.00	0.00
						6490779.88	2289215.17	8.00	0.00
						6490778.28	2289215.63	8.00	0.00
						6490776.78	2289216.34	8.00	0.00
						6490775.41	2289217.29	8.00	0.00
						6490774.23	2289218.46	8.00	0.00
						6490773.25	2289219.81	8.00	0.00
						6490772.51	2289221.30	8.00	0.00
						6490772.03	2289222.89	8.00	0.00
						6490771.82	2289224.54	8.00	0.00
						6490762.92	2289425.71	8.00	0.00
						6490762.99	2289427.36	8.00	0.00
						6490763.32	2289428.98	8.00	0.00
						6490763.92	2289430.52	8.00	0.00
						6490764.76	2289431.94	8.00	0.00
						6490765.82	2289433.20	8.00	0.00
						6490767.08	2289434.27	8.00	0.00
						6490768.50	2289435.12	8.00	0.00
						6490770.03	2289435.73	8.00	0.00
						6490771.65	2289436.07	8.00	0.00
						6490773.30	2289436.14	8.00	0.00
						6490774.94	2289435.95	8.00	0.00
						6490776.52	2289435.48	8.00	0.00
						6490778.01	2289434.76	8.00	0.00
						6490779.36	2289433.80	8.00	0.00
						6490780.53	2289432.64	8.00	0.00
						6490781.49	2289431.30	8.00	0.00
						6490782.22	2289429.81	8.00	0.00
						6490782.70	2289428.23	8.00	0.00
						6490782.90	2289426.59	8.00	0.00
						6490791.45	2289233.27	8.00	0.00
						6490932.40	2289205.49	8.00	0.00
						6490932.70	2289205.43	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6491264.65	2289129.50	8.00	0.00
						6491580.53	2289062.67	8.00	0.00
						6491759.33	2289025.35	8.00	0.00
						6491760.71	2289024.96	8.00	0.00
						6491761.11	2289024.80	8.00	0.00
						6491860.77	2288983.64	8.00	0.00
						6492114.78	2288889.04	8.00	0.00
						6492116.35	2288888.29	8.00	0.00
						6492117.77	2288887.29	8.00	0.00
						6492118.99	2288886.05	8.00	0.00
						6492119.98	2288884.62	8.00	0.00
						6492120.71	2288883.04	8.00	0.00
						6492121.15	2288881.36	8.00	0.00
						6492121.29	2288879.63	8.00	0.00
						6492121.14	2288877.90	8.00	0.00
						6492120.68	2288876.22	8.00	0.00
						6492119.94	2288874.65	8.00	0.00
						6492118.94	2288873.23	8.00	0.00
						6492117.71	2288872.00	8.00	0.00
						6492116.29	2288871.00	8.00	0.00
						6492114.71	2288870.27	8.00	0.00
CA57	CA57	8.00	r			6491261.25	2288697.01	8.00	0.00
						6491259.52	2288696.86	8.00	0.00
						6491257.80	2288697.01	8.00	0.00
						6491256.13	2288697.45	8.00	0.00
						6491254.55	2288698.18	8.00	0.00
						6491253.13	2288699.16	8.00	0.00
						6491251.90	2288700.38	8.00	0.00
						6491250.89	2288701.79	8.00	0.00
						6491250.15	2288703.35	8.00	0.00
						6491249.68	2288705.02	8.00	0.00
						6491249.51	2288706.74	8.00	0.00
						6491247.34	2288893.43	8.00	0.00
						6491247.35	2288893.72	8.00	0.00
						6491251.62	2289081.14	8.00	0.00
						6491251.81	2289082.88	8.00	0.00
						6491252.30	2289084.55	8.00	0.00
						6491253.07	2289086.11	8.00	0.00
						6491254.10	2289087.52	8.00	0.00
						6491255.36	2289088.72	8.00	0.00
						6491256.81	2289089.69	8.00	0.00
						6491258.41	2289090.39	8.00	0.00
						6491260.10	2289090.80	8.00	0.00
						6491261.84	2289090.91	8.00	0.00
						6491263.57	2289090.72	8.00	0.00
						6491265.25	2289090.23	8.00	0.00
						6491266.81	2289089.46	8.00	0.00
						6491268.21	2289088.43	8.00	0.00
						6491269.42	2289087.17	8.00	0.00
						6491270.38	2289085.72	8.00	0.00
						6491271.09	2289084.12	8.00	0.00
						6491271.50	2289082.43	8.00	0.00
						6491271.61	2289080.69	8.00	0.00
						6491267.34	2288893.44	8.00	0.00
						6491269.51	2288706.92	8.00	0.00
						6491269.40	2288705.37	8.00	0.00
						6491269.05	2288703.85	8.00	0.00
						6491268.47	2288702.41	8.00	0.00
						6491267.67	2288701.07	8.00	0.00
						6491266.67	2288699.88	8.00	0.00
						6491265.50	2288698.85	8.00	0.00
						6491264.19	2288698.02	8.00	0.00
						6491262.76	2288697.40	8.00	0.00
CA58	CA58	8.00	r			6491619.32	2288707.86	8.00	0.00
						6491617.58	2288707.71	8.00	0.00
						6491615.85	2288707.86	8.00	0.00
						6491614.16	2288708.31	8.00	0.00
						6491612.58	2288709.05	8.00	0.00
						6491611.16	2288710.05	8.00	0.00
						6491609.92	2288711.29	8.00	0.00
						6491608.92	2288712.71	8.00	0.00
						6491608.19	2288714.29	8.00	0.00
						6491607.74	2288715.98	8.00	0.00
						6491607.59	2288717.71	8.00	0.00
						6491607.74	2288719.45	8.00	0.00
						6491608.19	2288721.13	8.00	0.00
						6491608.93	2288722.71	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6491609.93	2288724.14	8.00	0.00
						6491611.16	2288725.37	8.00	0.00
						6491612.59	2288726.37	8.00	0.00
						6491614.17	2288727.11	8.00	0.00
						6491615.85	2288727.56	8.00	0.00
						6491816.32	2288762.82	8.00	0.00
						6491818.06	2288762.98	8.00	0.00
						6491819.79	2288762.82	8.00	0.00
						6491821.48	2288762.37	8.00	0.00
						6491823.06	2288761.63	8.00	0.00
						6491824.48	2288760.63	8.00	0.00
						6491825.72	2288759.40	8.00	0.00
						6491826.71	2288757.97	8.00	0.00
						6491827.45	2288756.39	8.00	0.00
						6491827.90	2288754.71	8.00	0.00
						6491828.05	2288752.97	8.00	0.00
						6491827.90	2288751.24	8.00	0.00
						6491827.45	2288749.55	8.00	0.00
						6491826.71	2288747.97	8.00	0.00
						6491825.71	2288746.55	8.00	0.00
						6491824.48	2288745.31	8.00	0.00
						6491823.05	2288744.31	8.00	0.00
						6491821.47	2288743.58	8.00	0.00
						6491819.79	2288743.13	8.00	0.00
CA59	CA59	8.00	r			6492082.54	2288288.51	8.00	0.00
						6492076.73	2288195.48	8.00	0.00
						6492408.96	2288195.48	8.00	0.00
						6492410.70	2288195.33	8.00	0.00
						6492412.38	2288194.88	8.00	0.00
						6492413.96	2288194.14	8.00	0.00
						6492415.39	2288193.14	8.00	0.00
						6492416.62	2288191.91	8.00	0.00
						6492417.62	2288190.48	8.00	0.00
						6492418.36	2288188.90	8.00	0.00
						6492418.81	2288187.22	8.00	0.00
						6492418.96	2288185.48	8.00	0.00
						6492418.81	2288183.75	8.00	0.00
						6492418.36	2288182.06	8.00	0.00
						6492417.62	2288180.48	8.00	0.00
						6492416.62	2288179.06	8.00	0.00
						6492415.39	2288177.82	8.00	0.00
						6492413.96	2288176.82	8.00	0.00
						6492412.38	2288176.09	8.00	0.00
						6492410.70	2288175.64	8.00	0.00
						6492408.96	2288175.48	8.00	0.00
						6492066.08	2288175.48	8.00	0.00
						6492064.46	2288175.62	8.00	0.00
						6492062.87	2288176.01	8.00	0.00
						6492061.38	2288176.66	8.00	0.00
						6492060.00	2288177.54	8.00	0.00
						6492058.79	2288178.64	8.00	0.00
						6492057.78	2288179.91	8.00	0.00
						6492056.98	2288181.34	8.00	0.00
						6492056.43	2288182.87	8.00	0.00
						6492056.13	2288184.48	8.00	0.00
						6492056.10	2288186.11	8.00	0.00
						6492062.61	2288290.27	8.00	0.00
						6492062.73	2288291.31	8.00	0.00
						6492110.49	2288575.67	8.00	0.00
						6492161.89	2288858.64	8.00	0.00
						6492171.10	2288934.83	8.00	0.00
						6492173.27	2289153.47	8.00	0.00
						6492181.95	2290012.76	8.00	0.00
						6492179.78	2290314.35	8.00	0.00
						6492179.79	2290314.74	8.00	0.00
						6492184.13	2290438.44	8.00	0.00
						6492184.21	2290439.41	8.00	0.00
						6492197.23	2290537.07	8.00	0.00
						6492197.29	2290537.48	8.00	0.00
						6492197.78	2290539.26	8.00	0.00
						6492223.36	2290605.35	8.00	0.00
						6492236.22	2290738.19	8.00	0.00
						6492240.55	2290894.09	8.00	0.00
						6492240.73	2290895.74	8.00	0.00
						6492241.18	2290897.33	8.00	0.00
						6492241.88	2290898.82	8.00	0.00
						6492242.83	2290900.18	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6492243.98	2290901.36	8.00	0.00
						6492245.31	2290902.34	8.00	0.00
						6492246.78	2290903.08	8.00	0.00
						6492248.36	2290903.58	8.00	0.00
						6492249.99	2290903.80	8.00	0.00
						6492251.65	2290903.76	8.00	0.00
						6492253.27	2290903.44	8.00	0.00
						6492254.81	2290902.86	8.00	0.00
						6492256.24	2290902.03	8.00	0.00
						6492257.52	2290900.98	8.00	0.00
						6492258.60	2290899.74	8.00	0.00
						6492259.47	2290898.33	8.00	0.00
						6492260.09	2290896.80	8.00	0.00
						6492260.45	2290895.19	8.00	0.00
						6492260.54	2290893.54	8.00	0.00
						6492256.20	2290737.29	8.00	0.00
						6492256.16	2290736.60	8.00	0.00
						6492243.14	2290602.06	8.00	0.00
						6492243.03	2290601.28	8.00	0.00
						6492242.54	2290599.50	8.00	0.00
						6492216.90	2290533.24	8.00	0.00
						6492204.10	2290437.25	8.00	0.00
						6492199.78	2290314.25	8.00	0.00
						6492201.95	2290012.73	8.00	0.00
						6492193.27	2289153.27	8.00	0.00
						6492191.10	2288934.08	8.00	0.00
						6492191.03	2288932.98	8.00	0.00
						6492181.71	2288855.94	8.00	0.00
						6492181.63	2288855.38	8.00	0.00
						6492130.19	2288572.22	8.00	0.00
CA60	CA60	8.00	r			6492781.61	2288660.14	8.00	0.00
						6492779.88	2288659.99	8.00	0.00
						6492778.14	2288660.14	8.00	0.00
						6492776.46	2288660.59	8.00	0.00
						6492774.88	2288661.32	8.00	0.00
						6492773.46	2288662.32	8.00	0.00
						6492772.22	2288663.55	8.00	0.00
						6492771.22	2288664.97	8.00	0.00
						6492770.49	2288666.55	8.00	0.00
						6492770.03	2288668.23	8.00	0.00
						6492769.87	2288669.96	8.00	0.00
						6492767.89	2289409.45	8.00	0.00
						6492770.06	2289999.74	8.00	0.00
						6492770.06	2290263.04	8.00	0.00
						6492759.61	2290298.55	8.00	0.00
						6492759.39	2290299.48	8.00	0.00
						6492748.74	2290354.85	8.00	0.00
						6492729.70	2290399.28	8.00	0.00
						6492636.45	2290598.78	8.00	0.00
						6492636.11	2290599.60	8.00	0.00
						6492635.78	2290600.68	8.00	0.00
						6492622.76	2290654.94	8.00	0.00
						6492622.64	2290655.54	8.00	0.00
						6492622.50	2290656.75	8.00	0.00
						6492618.16	2290739.21	8.00	0.00
						6492618.15	2290739.45	8.00	0.00
						6492613.81	2290889.19	8.00	0.00
						6492613.91	2290890.93	8.00	0.00
						6492614.32	2290892.62	8.00	0.00
						6492615.01	2290894.22	8.00	0.00
						6492615.96	2290895.68	8.00	0.00
						6492617.16	2290896.95	8.00	0.00
						6492618.56	2290897.99	8.00	0.00
						6492620.12	2290898.77	8.00	0.00
						6492621.79	2290899.27	8.00	0.00
						6492623.52	2290899.47	8.00	0.00
						6492625.26	2290899.37	8.00	0.00
						6492626.95	2290898.97	8.00	0.00
						6492628.55	2290898.28	8.00	0.00
						6492630.01	2290897.32	8.00	0.00
						6492631.28	2290896.12	8.00	0.00
						6492632.32	2290894.73	8.00	0.00
						6492633.10	2290893.17	8.00	0.00
						6492633.60	2290891.50	8.00	0.00
						6492633.80	2290889.77	8.00	0.00
						6492638.14	2290740.15	8.00	0.00
						6492642.43	2290658.71	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6492655.00	2290606.34	8.00	0.00
						6492747.88	2290407.60	8.00	0.00
						6492748.02	2290407.30	8.00	0.00
						6492767.55	2290361.73	8.00	0.00
						6492767.75	2290361.21	8.00	0.00
						6492768.18	2290359.68	8.00	0.00
						6492778.94	2290303.73	8.00	0.00
						6492789.65	2290267.30	8.00	0.00
						6492789.91	2290266.21	8.00	0.00
						6492790.06	2290264.48	8.00	0.00
						6492790.06	2289999.70	8.00	0.00
						6492787.89	2289409.44	8.00	0.00
						6492789.87	2288670.00	8.00	0.00
						6492789.76	2288668.45	8.00	0.00
						6492789.40	2288666.94	8.00	0.00
						6492788.82	2288665.51	8.00	0.00
						6492788.01	2288664.18	8.00	0.00
						6492787.02	2288662.99	8.00	0.00
						6492785.85	2288661.97	8.00	0.00
						6492784.54	2288661.14	8.00	0.00
						6492783.11	2288660.53	8.00	0.00
CA61	CA61	8.00	r			6493085.61	2290584.49	8.00	0.00
						6493083.79	2290584.34	8.00	0.00
						6492717.92	2290590.92	8.00	0.00
						6492716.19	2290591.10	8.00	0.00
						6492714.52	2290591.58	8.00	0.00
						6492712.96	2290592.34	8.00	0.00
						6492711.55	2290593.36	8.00	0.00
						6492710.34	2290594.61	8.00	0.00
						6492709.37	2290596.04	8.00	0.00
						6492708.66	2290597.63	8.00	0.00
						6492708.23	2290599.32	8.00	0.00
						6492708.10	2290601.05	8.00	0.00
						6492708.28	2290602.78	8.00	0.00
						6492708.75	2290604.45	8.00	0.00
						6492709.50	2290606.02	8.00	0.00
						6492710.52	2290607.43	8.00	0.00
						6492711.76	2290608.64	8.00	0.00
						6492713.19	2290609.63	8.00	0.00
						6492714.78	2290610.34	8.00	0.00
						6492716.46	2290610.78	8.00	0.00
						6492718.19	2290610.91	8.00	0.00
						6493084.06	2290604.34	8.00	0.00
						6493085.78	2290604.16	8.00	0.00
						6493087.45	2290603.68	8.00	0.00
						6493089.00	2290602.92	8.00	0.00
						6493090.41	2290601.91	8.00	0.00
						6493091.62	2290600.67	8.00	0.00
						6493092.59	2290599.24	8.00	0.00
						6493093.31	2290597.66	8.00	0.00
						6493093.74	2290595.98	8.00	0.00
						6493093.88	2290594.25	8.00	0.00
						6493093.71	2290592.53	8.00	0.00
						6493093.25	2290590.86	8.00	0.00
						6493092.51	2290589.29	8.00	0.00
						6493091.51	2290587.88	8.00	0.00
						6493090.28	2290586.66	8.00	0.00
						6493088.86	2290585.67	8.00	0.00
						6493087.29	2290584.94	8.00	0.00
CA62	CA62	8.00	r			6492410.70	2288175.64	8.00	0.00
						6492408.97	2288175.48	8.00	0.00
						6492407.23	2288175.63	8.00	0.00
						6492405.55	2288176.08	8.00	0.00
						6492403.97	2288176.82	8.00	0.00
						6492402.54	2288177.82	8.00	0.00
						6492401.31	2288179.04	8.00	0.00
						6492400.31	2288180.47	8.00	0.00
						6492399.57	2288182.05	8.00	0.00
						6492399.12	2288183.73	8.00	0.00
						6492398.96	2288185.46	8.00	0.00
						6492399.11	2288187.19	8.00	0.00
						6492399.56	2288188.88	8.00	0.00
						6492400.29	2288190.46	8.00	0.00
						6492401.28	2288191.89	8.00	0.00
						6492498.95	2288309.09	8.00	0.00
						6492499.23	2288309.41	8.00	0.00
						6492772.67	2288608.89	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6492772.83	2288609.07	8.00	0.00
						6492918.07	2288760.81	8.00	0.00
						6492990.91	2288844.36	8.00	0.00
						6493022.91	2288906.22	8.00	0.00
						6493023.13	2288906.63	8.00	0.00
						6493023.38	2288907.04	8.00	0.00
						6493042.09	2288936.14	8.00	0.00
						6493065.39	2289020.88	8.00	0.00
						6493073.86	2289078.01	8.00	0.00
						6493071.71	2289153.08	8.00	0.00
						6493071.71	2289153.38	8.00	0.00
						6493073.88	2290012.75	8.00	0.00
						6493073.88	2290594.26	8.00	0.00
						6493071.71	2290728.81	8.00	0.00
						6493071.71	2290889.48	8.00	0.00
						6493071.86	2290891.21	8.00	0.00
						6493072.31	2290892.90	8.00	0.00
						6493073.05	2290894.48	8.00	0.00
						6493074.05	2290895.90	8.00	0.00
						6493075.28	2290897.14	8.00	0.00
						6493076.71	2290898.14	8.00	0.00
						6493078.29	2290898.87	8.00	0.00
						6493079.97	2290899.32	8.00	0.00
						6493081.71	2290899.48	8.00	0.00
						6493083.44	2290899.32	8.00	0.00
						6493085.13	2290898.87	8.00	0.00
						6493086.71	2290898.14	8.00	0.00
						6493088.13	2290897.14	8.00	0.00
						6493089.37	2290895.90	8.00	0.00
						6493090.37	2290894.48	8.00	0.00
						6493091.10	2290892.90	8.00	0.00
						6493091.55	2290891.21	8.00	0.00
						6493091.71	2290889.48	8.00	0.00
						6493091.71	2290728.97	8.00	0.00
						6493093.88	2290594.42	8.00	0.00
						6493093.88	2290012.73	8.00	0.00
						6493091.71	2289153.50	8.00	0.00
						6493093.87	2289077.70	8.00	0.00
						6493093.88	2289077.41	8.00	0.00
						6493093.77	2289075.95	8.00	0.00
						6493085.09	2289017.35	8.00	0.00
						6493085.04	2289017.08	8.00	0.00
						6493084.84	2289016.17	8.00	0.00
						6493060.97	2288929.36	8.00	0.00
						6493060.46	2288927.94	8.00	0.00
						6493059.74	2288926.60	8.00	0.00
						6493040.46	2288896.62	8.00	0.00
						6493008.12	2288834.10	8.00	0.00
						6493007.90	2288833.70	8.00	0.00
						6493006.84	2288832.20	8.00	0.00
						6492932.99	2288747.49	8.00	0.00
						6492932.68	2288747.15	8.00	0.00
						6492787.36	2288595.32	8.00	0.00
						6492514.16	2288296.10	8.00	0.00
						6492416.63	2288179.07	8.00	0.00
						6492415.66	2288178.06	8.00	0.00
						6492414.56	2288177.20	8.00	0.00
						6492413.35	2288176.50	8.00	0.00
						6492412.06	2288175.97	8.00	0.00
CA63	CA63	8.00	r			6492470.05	2288332.09	8.00	0.00
						6492468.44	2288331.94	8.00	0.00
						6492466.82	2288332.05	8.00	0.00
						6492465.25	2288332.42	8.00	0.00
						6492463.75	2288333.04	8.00	0.00
						6492462.38	2288333.89	8.00	0.00
						6492461.16	2288334.95	8.00	0.00
						6492412.66	2288384.66	8.00	0.00
						6492411.60	2288385.95	8.00	0.00
						6492410.77	2288387.39	8.00	0.00
						6492393.40	2288424.28	8.00	0.00
						6492392.86	2288425.73	8.00	0.00
						6492392.54	2288427.24	8.00	0.00
						6492392.46	2288428.79	8.00	0.00
						6492392.61	2288430.33	8.00	0.00
						6492422.97	2288592.96	8.00	0.00
						6492461.91	2288852.58	8.00	0.00
						6492468.41	2289131.81	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6492474.92	2290310.11	8.00	0.00
						6492475.08	2290311.84	8.00	0.00
						6492475.54	2290313.52	8.00	0.00
						6492476.28	2290315.09	8.00	0.00
						6492477.29	2290316.52	8.00	0.00
						6492478.53	2290317.74	8.00	0.00
						6492479.96	2290318.73	8.00	0.00
						6492481.54	2290319.46	8.00	0.00
						6492483.22	2290319.91	8.00	0.00
						6492484.96	2290320.05	8.00	0.00
						6492486.69	2290319.89	8.00	0.00
						6492488.37	2290319.43	8.00	0.00
						6492489.95	2290318.69	8.00	0.00
						6492491.37	2290317.69	8.00	0.00
						6492492.60	2290316.45	8.00	0.00
						6492493.59	2290315.02	8.00	0.00
						6492494.33	2290313.44	8.00	0.00
						6492494.77	2290311.76	8.00	0.00
						6492494.92	2290310.02	8.00	0.00
						6492488.41	2289131.52	8.00	0.00
						6492481.89	2288851.48	8.00	0.00
						6492481.79	2288850.23	8.00	0.00
						6492442.72	2288589.82	8.00	0.00
						6492442.67	2288589.51	8.00	0.00
						6492412.88	2288429.88	8.00	0.00
						6492428.15	2288397.43	8.00	0.00
						6492475.47	2288348.92	8.00	0.00
						6492476.53	2288347.63	8.00	0.00
						6492477.36	2288346.19	8.00	0.00
						6492477.94	2288344.63	8.00	0.00
						6492478.26	2288342.99	8.00	0.00
						6492478.29	2288341.32	8.00	0.00
						6492478.05	2288339.67	8.00	0.00
						6492477.54	2288338.09	8.00	0.00
						6492476.78	2288336.61	8.00	0.00
						6492475.77	2288335.28	8.00	0.00
						6492474.56	2288334.13	8.00	0.00
						6492473.18	2288333.20	8.00	0.00
						6492471.66	2288332.51	8.00	0.00
CA64	CA64	8.00	r			6492727.85	2290292.84	8.00	0.00
						6492726.11	2290292.69	8.00	0.00
						6492725.80	2290292.69	8.00	0.00
						6492484.69	2290300.05	8.00	0.00
						6492231.10	2290303.78	8.00	0.00
						6492229.37	2290303.96	8.00	0.00
						6492227.70	2290304.43	8.00	0.00
						6492226.13	2290305.19	8.00	0.00
						6492224.72	2290306.20	8.00	0.00
						6492223.51	2290307.45	8.00	0.00
						6492222.53	2290308.89	8.00	0.00
						6492221.81	2290310.47	8.00	0.00
						6492221.38	2290312.16	8.00	0.00
						6492221.25	2290313.89	8.00	0.00
						6492221.42	2290315.62	8.00	0.00
						6492221.89	2290317.30	8.00	0.00
						6492222.64	2290318.86	8.00	0.00
						6492223.65	2290320.28	8.00	0.00
						6492224.89	2290321.50	8.00	0.00
						6492226.32	2290322.48	8.00	0.00
						6492227.91	2290323.20	8.00	0.00
						6492229.59	2290323.64	8.00	0.00
						6492231.32	2290323.78	8.00	0.00
						6492485.14	2290320.05	8.00	0.00
						6492726.41	2290312.68	8.00	0.00
						6492728.13	2290312.48	8.00	0.00
						6492729.78	2290311.99	8.00	0.00
						6492731.33	2290311.22	8.00	0.00
						6492732.71	2290310.19	8.00	0.00
						6492733.91	2290308.95	8.00	0.00
						6492734.87	2290307.51	8.00	0.00
						6492735.57	2290305.94	8.00	0.00
						6492735.98	2290304.26	8.00	0.00
						6492736.11	2290302.54	8.00	0.00
						6492735.94	2290300.83	8.00	0.00
						6492735.47	2290299.16	8.00	0.00
						6492734.72	2290297.61	8.00	0.00
						6492733.72	2290296.20	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6492732.50	2290294.99	8.00	0.00
						6492731.08	2290294.01	8.00	0.00
						6492729.51	2290293.28	8.00	0.00
CA65	CA65	8.00	r			6492004.82	2290331.28	8.00	0.00
						6492091.69	2290318.79	8.00	0.00
						6492144.36	2290321.81	8.00	0.00
						6492146.11	2290321.75	8.00	0.00
						6492147.81	2290321.40	8.00	0.00
						6492149.43	2290320.75	8.00	0.00
						6492150.91	2290319.84	8.00	0.00
						6492152.22	2290318.68	8.00	0.00
						6492153.30	2290317.31	8.00	0.00
						6492154.12	2290315.77	8.00	0.00
						6492154.67	2290314.12	8.00	0.00
						6492154.92	2290312.39	8.00	0.00
						6492154.87	2290310.65	8.00	0.00
						6492154.51	2290308.94	8.00	0.00
						6492153.87	2290307.33	8.00	0.00
						6492152.95	2290305.84	8.00	0.00
						6492151.79	2290304.54	8.00	0.00
						6492150.42	2290303.46	8.00	0.00
						6492148.89	2290302.64	8.00	0.00
						6492147.23	2290302.09	8.00	0.00
						6492145.51	2290301.84	8.00	0.00
						6492091.83	2290298.76	8.00	0.00
						6492091.26	2290298.75	8.00	0.00
						6492089.83	2290298.85	8.00	0.00
						6492001.09	2290311.61	8.00	0.00
						6492000.77	2290311.66	8.00	0.00
						6491999.34	2290312.02	8.00	0.00
						6491959.61	2290325.31	8.00	0.00
						6491959.36	2290325.39	8.00	0.00
						6491958.71	2290325.66	8.00	0.00
						6491890.35	2290356.17	8.00	0.00
						6491888.91	2290356.97	8.00	0.00
						6491887.61	2290357.99	8.00	0.00
						6491886.50	2290359.21	8.00	0.00
						6491885.60	2290360.60	8.00	0.00
						6491884.95	2290362.12	8.00	0.00
						6491884.56	2290363.72	8.00	0.00
						6491884.43	2290365.37	8.00	0.00
						6491884.58	2290367.01	8.00	0.00
						6491884.99	2290368.61	8.00	0.00
						6491885.67	2290370.12	8.00	0.00
						6491886.58	2290371.50	8.00	0.00
						6491887.70	2290372.70	8.00	0.00
						6491889.01	2290373.71	8.00	0.00
						6491890.47	2290374.49	8.00	0.00
						6491892.04	2290375.01	8.00	0.00
						6491893.67	2290375.27	8.00	0.00
						6491895.32	2290375.26	8.00	0.00
						6491896.95	2290374.98	8.00	0.00
						6491898.51	2290374.43	8.00	0.00
						6491966.42	2290344.12	8.00	0.00
CA66	CA66	8.00	r			6491616.66	2290725.33	8.00	0.00
						6491614.94	2290725.18	8.00	0.00
						6491613.21	2290725.33	8.00	0.00
						6491611.54	2290725.77	8.00	0.00
						6491609.97	2290726.50	8.00	0.00
						6491608.54	2290727.48	8.00	0.00
						6491607.31	2290728.70	8.00	0.00
						6491606.31	2290730.11	8.00	0.00
						6491605.56	2290731.67	8.00	0.00
						6491605.10	2290733.34	8.00	0.00
						6491604.93	2290735.07	8.00	0.00
						6491603.19	2290886.16	8.00	0.00
						6491603.33	2290887.90	8.00	0.00
						6491603.77	2290889.58	8.00	0.00
						6491604.50	2290891.16	8.00	0.00
						6491605.49	2290892.60	8.00	0.00
						6491606.71	2290893.83	8.00	0.00
						6491608.13	2290894.84	8.00	0.00
						6491609.70	2290895.59	8.00	0.00
						6491611.37	2290896.06	8.00	0.00
						6491613.11	2290896.22	8.00	0.00
						6491614.84	2290896.08	8.00	0.00
						6491616.52	2290895.65	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6491618.11	2290894.93	8.00	0.00
						6491619.54	2290893.95	8.00	0.00
						6491620.79	2290892.73	8.00	0.00
						6491621.80	2290891.31	8.00	0.00
						6491622.55	2290889.74	8.00	0.00
						6491623.02	2290888.07	8.00	0.00
						6491623.19	2290886.34	8.00	0.00
						6491624.93	2290735.24	8.00	0.00
						6491624.82	2290733.69	8.00	0.00
						6491624.46	2290732.17	8.00	0.00
						6491623.88	2290730.73	8.00	0.00
						6491623.08	2290729.39	8.00	0.00
						6491622.08	2290728.20	8.00	0.00
						6491620.91	2290727.17	8.00	0.00
						6491619.60	2290726.34	8.00	0.00
						6491618.17	2290725.72	8.00	0.00
CA67	CA67	8.00	r			6496074.71	2291673.29	8.00	0.00
						6496073.00	2291673.14	8.00	0.00
						6496071.29	2291673.28	8.00	0.00
						6496069.62	2291673.72	8.00	0.00
						6496068.06	2291674.43	8.00	0.00
						6496066.64	2291675.40	8.00	0.00
						6496065.41	2291676.60	8.00	0.00
						6496064.40	2291677.99	8.00	0.00
						6496063.65	2291679.53	8.00	0.00
						6496063.17	2291681.18	8.00	0.00
						6496062.98	2291682.89	8.00	0.00
						6496063.08	2291684.60	8.00	0.00
						6496063.48	2291686.28	8.00	0.00
						6496064.15	2291687.85	8.00	0.00
						6496065.09	2291689.29	8.00	0.00
						6496282.29	2291967.50	8.00	0.00
						6496317.36	2292035.14	8.00	0.00
						6496322.39	2292110.62	8.00	0.00
						6496319.86	2292166.21	8.00	0.00
						6496216.00	2292537.51	8.00	0.00
						6496215.95	2292537.72	8.00	0.00
						6496138.02	2292841.64	8.00	0.00
						6496104.57	2292918.83	8.00	0.00
						6496055.74	2293019.05	8.00	0.00
						6495981.02	2293106.66	8.00	0.00
						6495980.15	2293107.86	8.00	0.00
						6495891.61	2293251.09	8.00	0.00
						6495891.45	2293251.35	8.00	0.00
						6495891.29	2293251.63	8.00	0.00
						6495742.86	2293529.28	8.00	0.00
						6495742.20	2293530.79	8.00	0.00
						6495741.80	2293532.39	8.00	0.00
						6495741.67	2293534.04	8.00	0.00
						6495741.82	2293535.69	8.00	0.00
						6495742.23	2293537.28	8.00	0.00
						6495742.90	2293538.79	8.00	0.00
						6495743.81	2293540.17	8.00	0.00
						6495744.94	2293541.38	8.00	0.00
						6495746.25	2293542.39	8.00	0.00
						6495747.70	2293543.17	8.00	0.00
						6495749.27	2293543.70	8.00	0.00
						6495750.90	2293543.96	8.00	0.00
						6495752.55	2293543.95	8.00	0.00
						6495754.18	2293543.67	8.00	0.00
						6495755.74	2293543.13	8.00	0.00
						6495757.19	2293542.33	8.00	0.00
						6495758.48	2293541.31	8.00	0.00
						6495759.60	2293540.09	8.00	0.00
						6495760.49	2293538.70	8.00	0.00
						6495908.78	2293261.34	8.00	0.00
						6495996.76	2293119.03	8.00	0.00
						6496071.81	2293031.03	8.00	0.00
						6496072.84	2293029.58	8.00	0.00
						6496073.17	2293028.95	8.00	0.00
						6496122.64	2292927.39	8.00	0.00
						6496122.83	2292926.99	8.00	0.00
						6496156.68	2292848.86	8.00	0.00
						6496156.91	2292848.31	8.00	0.00
						6496157.20	2292847.37	8.00	0.00
						6496235.29	2292542.79	8.00	0.00
						6496339.43	2292170.50	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6496339.65	2292169.54	8.00	0.00
						6496339.79	2292168.26	8.00	0.00
						6496342.39	2292110.97	8.00	0.00
						6496342.40	2292110.51	8.00	0.00
						6496342.38	2292109.85	8.00	0.00
						6496337.17	2292031.72	8.00	0.00
						6496336.99	2292030.36	8.00	0.00
						6496336.62	2292029.04	8.00	0.00
						6496336.07	2292027.78	8.00	0.00
						6496299.62	2291957.47	8.00	0.00
						6496299.40	2291957.08	8.00	0.00
						6496298.62	2291955.92	8.00	0.00
						6496080.86	2291676.99	8.00	0.00
						6496079.87	2291675.90	8.00	0.00
						6496078.74	2291674.97	8.00	0.00
						6496077.48	2291674.22	8.00	0.00
						6496076.13	2291673.65	8.00	0.00
CA68	CA68	8.00	r			6496013.83	2292053.79	8.00	0.00
						6496012.10	2292053.64	8.00	0.00
						6496010.37	2292053.79	8.00	0.00
						6496008.69	2292054.23	8.00	0.00
						6496007.11	2292054.97	8.00	0.00
						6496005.69	2292055.96	8.00	0.00
						6496004.45	2292057.18	8.00	0.00
						6496003.45	2292058.60	8.00	0.00
						6496002.71	2292060.17	8.00	0.00
						6496002.25	2292061.85	8.00	0.00
						6495965.95	2292261.50	8.00	0.00
						6495906.39	2292422.07	8.00	0.00
						6495815.27	2292656.37	8.00	0.00
						6495815.20	2292656.57	8.00	0.00
						6495814.79	2292658.00	8.00	0.00
						6495757.50	2292939.25	8.00	0.00
						6495757.31	2292940.89	8.00	0.00
						6495757.38	2292942.54	8.00	0.00
						6495757.73	2292944.15	8.00	0.00
						6495758.34	2292945.69	8.00	0.00
						6495759.20	2292947.10	8.00	0.00
						6495760.27	2292948.35	8.00	0.00
						6495761.54	2292949.41	8.00	0.00
						6495762.96	2292950.25	8.00	0.00
						6495764.50	2292950.84	8.00	0.00
						6495766.12	2292951.17	8.00	0.00
						6495767.77	2292951.23	8.00	0.00
						6495769.41	2292951.02	8.00	0.00
						6495770.99	2292950.54	8.00	0.00
						6495772.47	2292949.80	8.00	0.00
						6495773.81	2292948.84	8.00	0.00
						6495774.97	2292947.66	8.00	0.00
						6495775.92	2292946.31	8.00	0.00
						6495776.64	2292944.82	8.00	0.00
						6495777.10	2292943.24	8.00	0.00
						6495834.22	2292662.82	8.00	0.00
						6495925.09	2292429.17	8.00	0.00
						6495985.02	2292267.61	8.00	0.00
						6495985.47	2292265.95	8.00	0.00
						6496021.94	2292065.40	8.00	0.00
						6496022.09	2292063.84	8.00	0.00
						6496022.00	2292062.27	8.00	0.00
						6496021.66	2292060.73	8.00	0.00
						6496021.09	2292059.27	8.00	0.00
						6496020.29	2292057.91	8.00	0.00
						6496019.29	2292056.70	8.00	0.00
						6496018.12	2292055.66	8.00	0.00
						6496016.79	2292054.81	8.00	0.00
						6496015.35	2292054.18	8.00	0.00
CA69	CA69	8.00	r			6495965.03	2292433.35	8.00	0.00
						6495963.29	2292433.20	8.00	0.00
						6495961.56	2292433.35	8.00	0.00
						6495959.88	2292433.80	8.00	0.00
						6495958.30	2292434.53	8.00	0.00
						6495956.88	2292435.53	8.00	0.00
						6495955.64	2292436.76	8.00	0.00
						6495954.64	2292438.18	8.00	0.00
						6495953.90	2292439.76	8.00	0.00
						6495953.45	2292441.44	8.00	0.00
						6495953.29	2292443.17	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6495953.44	2292444.90	8.00	0.00
						6495953.88	2292446.59	8.00	0.00
						6495954.61	2292448.17	8.00	0.00
						6495955.60	2292449.60	8.00	0.00
						6495956.83	2292450.83	8.00	0.00
						6495958.25	2292451.84	8.00	0.00
						6495959.82	2292452.58	8.00	0.00
						6496222.19	2292549.59	8.00	0.00
						6496223.87	2292550.04	8.00	0.00
						6496225.61	2292550.20	8.00	0.00
						6496227.34	2292550.05	8.00	0.00
						6496229.02	2292549.61	8.00	0.00
						6496230.61	2292548.88	8.00	0.00
						6496232.04	2292547.88	8.00	0.00
						6496233.27	2292546.66	8.00	0.00
						6496234.28	2292545.23	8.00	0.00
						6496235.02	2292543.66	8.00	0.00
						6496235.47	2292541.98	8.00	0.00
						6496235.63	2292540.24	8.00	0.00
						6496235.49	2292538.51	8.00	0.00
						6496235.05	2292536.82	8.00	0.00
						6496234.32	2292535.24	8.00	0.00
						6496233.32	2292533.81	8.00	0.00
						6496232.10	2292532.57	8.00	0.00
						6496230.68	2292531.56	8.00	0.00
						6496229.10	2292530.82	8.00	0.00
						6495966.74	2292433.81	8.00	0.00
CA70	CA70	8.00	r			6495690.91	2291876.71	8.00	0.00
						6495689.31	2291876.56	8.00	0.00
						6495687.71	2291876.66	8.00	0.00
						6495686.15	2291877.02	8.00	0.00
						6495684.66	2291877.63	8.00	0.00
						6495683.29	2291878.47	8.00	0.00
						6495682.08	2291879.51	8.00	0.00
						6495681.04	2291880.74	8.00	0.00
						6495680.21	2291882.12	8.00	0.00
						6495679.62	2291883.61	8.00	0.00
						6495679.27	2291885.17	8.00	0.00
						6495679.18	2291886.78	8.00	0.00
						6495679.34	2291888.37	8.00	0.00
						6495710.57	2292049.71	8.00	0.00
						6495718.02	2292099.38	8.00	0.00
						6495697.90	2292167.27	8.00	0.00
						6495557.58	2292551.86	8.00	0.00
						6495526.59	2292613.85	8.00	0.00
						6495526.13	2292614.91	8.00	0.00
						6495525.87	2292615.75	8.00	0.00
						6495515.45	2292654.81	8.00	0.00
						6495515.26	2292655.65	8.00	0.00
						6495515.11	2292657.39	8.00	0.00
						6495515.11	2292793.86	8.00	0.00
						6495443.09	2293020.21	8.00	0.00
						6495269.34	2293282.14	8.00	0.00
						6495144.29	2293477.52	8.00	0.00
						6495143.52	2293478.98	8.00	0.00
						6495143.00	2293480.55	8.00	0.00
						6495142.74	2293482.18	8.00	0.00
						6495142.76	2293483.83	8.00	0.00
						6495143.05	2293485.45	8.00	0.00
						6495143.60	2293487.01	8.00	0.00
						6495144.40	2293488.46	8.00	0.00
						6495145.42	2293489.75	8.00	0.00
						6495146.65	2293490.86	8.00	0.00
						6495148.04	2293491.75	8.00	0.00
						6495149.56	2293492.40	8.00	0.00
						6495151.16	2293492.79	8.00	0.00
						6495152.81	2293492.91	8.00	0.00
						6495154.46	2293492.76	8.00	0.00
						6495156.05	2293492.34	8.00	0.00
						6495157.56	2293491.66	8.00	0.00
						6495158.93	2293490.74	8.00	0.00
						6495160.14	2293489.61	8.00	0.00
						6495161.14	2293488.30	8.00	0.00
						6495286.10	2293293.06	8.00	0.00
						6495460.53	2293030.10	8.00	0.00
						6495461.21	2293028.90	8.00	0.00
						6495461.73	2293027.61	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6495534.64	2292798.44	8.00	0.00
						6495534.96	2292797.15	8.00	0.00
						6495535.11	2292795.41	8.00	0.00
						6495535.11	2292658.70	8.00	0.00
						6495544.93	2292621.89	8.00	0.00
						6495575.72	2292560.30	8.00	0.00
						6495576.17	2292559.25	8.00	0.00
						6495716.80	2292173.83	8.00	0.00
						6495716.99	2292173.25	8.00	0.00
						6495737.83	2292102.94	8.00	0.00
						6495738.14	2292101.52	8.00	0.00
						6495738.24	2292100.06	8.00	0.00
						6495738.13	2292098.61	8.00	0.00
						6495730.31	2292046.53	8.00	0.00
						6495730.26	2292046.19	8.00	0.00
						6495698.99	2291884.65	8.00	0.00
						6495698.52	2291883.00	8.00	0.00
						6495697.78	2291881.45	8.00	0.00
						6495696.77	2291880.05	8.00	0.00
						6495695.55	2291878.85	8.00	0.00
						6495694.13	2291877.87	8.00	0.00
						6495692.57	2291877.15	8.00	0.00
CA71	CA71	8.00	r			6495753.96	2292176.23	8.00	0.00
						6495752.32	2292176.07	8.00	0.00
						6495750.67	2292176.20	8.00	0.00
						6495749.07	2292176.58	8.00	0.00
						6495747.55	2292177.23	8.00	0.00
						6495746.16	2292178.12	8.00	0.00
						6495744.94	2292179.23	8.00	0.00
						6495743.91	2292180.52	8.00	0.00
						6495743.11	2292181.96	8.00	0.00
						6495742.56	2292183.52	8.00	0.00
						6495742.27	2292185.14	8.00	0.00
						6495742.25	2292186.79	8.00	0.00
						6495742.50	2292188.42	8.00	0.00
						6495743.02	2292189.99	8.00	0.00
						6495743.79	2292191.45	8.00	0.00
						6495744.79	2292192.76	8.00	0.00
						6495745.99	2292193.89	8.00	0.00
						6495747.36	2292194.81	8.00	0.00
						6495748.86	2292195.49	8.00	0.00
						6495972.33	2292273.60	8.00	0.00
						6495974.02	2292274.03	8.00	0.00
						6495975.75	2292274.16	8.00	0.00
						6495977.49	2292273.99	8.00	0.00
						6495979.16	2292273.52	8.00	0.00
						6495980.73	2292272.76	8.00	0.00
						6495982.14	2292271.75	8.00	0.00
						6495983.36	2292270.51	8.00	0.00
						6495984.34	2292269.07	8.00	0.00
						6495985.06	2292267.49	8.00	0.00
						6495985.50	2292265.80	8.00	0.00
						6495985.63	2292264.07	8.00	0.00
						6495985.47	2292262.34	8.00	0.00
						6495985.00	2292260.66	8.00	0.00
						6495984.25	2292259.09	8.00	0.00
						6495983.25	2292257.67	8.00	0.00
						6495982.01	2292256.45	8.00	0.00
						6495980.58	2292255.46	8.00	0.00
						6495978.99	2292254.74	8.00	0.00
						6495755.52	2292176.63	8.00	0.00
CA72	CA72	8.00	r			6496571.12	2289934.00	8.00	0.00
						6496569.50	2289933.85	8.00	0.00
						6496567.88	2289933.96	8.00	0.00
						6496566.30	2289934.33	8.00	0.00
						6496564.80	2289934.96	8.00	0.00
						6496563.42	2289935.82	8.00	0.00
						6496562.20	2289936.89	8.00	0.00
						6496561.17	2289938.14	8.00	0.00
						6496560.36	2289939.55	8.00	0.00
						6496559.78	2289941.07	8.00	0.00
						6496559.45	2289942.66	8.00	0.00
						6496559.39	2289944.28	8.00	0.00
						6496559.60	2289945.89	8.00	0.00
						6496560.06	2289947.45	8.00	0.00
						6496560.76	2289948.91	8.00	0.00
						6496581.39	2289983.42	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6496614.54	2290051.28	8.00	0.00
						6496640.25	2290174.71	8.00	0.00
						6496668.68	2290384.06	8.00	0.00
						6496632.46	2290704.89	8.00	0.00
						6496546.94	2290997.73	8.00	0.00
						6496495.36	2291116.37	8.00	0.00
						6496397.02	2291281.99	8.00	0.00
						6496246.87	2291478.74	8.00	0.00
						6496156.36	2291561.49	8.00	0.00
						6496052.73	2291657.35	8.00	0.00
						6495892.32	2291766.01	8.00	0.00
						6495708.93	2291864.58	8.00	0.00
						6495707.47	2291865.54	8.00	0.00
						6495706.20	2291866.73	8.00	0.00
						6495705.16	2291868.13	8.00	0.00
						6495704.38	2291869.69	8.00	0.00
						6495703.87	2291871.36	8.00	0.00
						6495703.67	2291873.09	8.00	0.00
						6495703.77	2291874.83	8.00	0.00
						6495704.17	2291876.52	8.00	0.00
						6495704.86	2291878.13	8.00	0.00
						6495705.81	2291879.58	8.00	0.00
						6495707.01	2291880.85	8.00	0.00
						6495708.40	2291881.90	8.00	0.00
						6495709.96	2291882.68	8.00	0.00
						6495711.63	2291883.18	8.00	0.00
						6495713.36	2291883.39	8.00	0.00
						6495715.10	2291883.29	8.00	0.00
						6495716.80	2291882.89	8.00	0.00
						6495718.40	2291882.20	8.00	0.00
						6495902.24	2291783.38	8.00	0.00
						6495902.51	2291783.24	8.00	0.00
						6495903.12	2291782.85	8.00	0.00
						6496064.58	2291673.48	8.00	0.00
						6496065.40	2291672.86	8.00	0.00
						6496065.76	2291672.54	8.00	0.00
						6496169.90	2291576.21	8.00	0.00
						6496261.03	2291492.89	8.00	0.00
						6496261.94	2291491.94	8.00	0.00
						6496262.23	2291491.58	8.00	0.00
						6496413.27	2291293.66	8.00	0.00
						6496413.92	2291292.70	8.00	0.00
						6496512.91	2291125.98	8.00	0.00
						6496513.45	2291124.92	8.00	0.00
						6496565.53	2291005.13	8.00	0.00
						6496565.76	2291004.56	8.00	0.00
						6496565.96	2291003.94	8.00	0.00
						6496651.90	2290709.67	8.00	0.00
						6496652.15	2290708.60	8.00	0.00
						6496652.24	2290707.99	8.00	0.00
						6496688.70	2290385.07	8.00	0.00
						6496688.76	2290383.95	8.00	0.00
						6496688.67	2290382.60	8.00	0.00
						6496660.02	2290171.67	8.00	0.00
						6496659.96	2290171.28	8.00	0.00
						6496659.90	2290170.97	8.00	0.00
						6496633.86	2290045.97	8.00	0.00
						6496633.47	2290044.59	8.00	0.00
						6496633.06	2290043.62	8.00	0.00
						6496599.18	2289974.26	8.00	0.00
						6496598.82	2289973.58	8.00	0.00
						6496577.97	2289938.71	8.00	0.00
						6496576.96	2289937.32	8.00	0.00
						6496575.74	2289936.13	8.00	0.00
						6496574.33	2289935.16	8.00	0.00
						6496572.78	2289934.44	8.00	0.00
CA73	CA73	8.00	r			6496321.19	2290118.07	8.00	0.00
						6496319.50	2290117.92	8.00	0.00
						6496317.80	2290118.06	8.00	0.00
						6496316.15	2290118.48	8.00	0.00
						6496314.60	2290119.18	8.00	0.00
						6496313.19	2290120.13	8.00	0.00
						6496311.96	2290121.31	8.00	0.00
						6496310.94	2290122.67	8.00	0.00
						6496310.18	2290124.19	8.00	0.00
						6496309.68	2290125.82	8.00	0.00
						6496309.46	2290127.51	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6496309.54	2290129.21	8.00	0.00
						6496309.90	2290130.87	8.00	0.00
						6496335.65	2290214.31	8.00	0.00
						6496353.64	2290332.56	8.00	0.00
						6496351.06	2290533.90	8.00	0.00
						6496301.93	2290769.24	8.00	0.00
						6496211.45	2291019.98	8.00	0.00
						6496082.37	2291208.44	8.00	0.00
						6495937.71	2291366.01	8.00	0.00
						6495837.15	2291438.21	8.00	0.00
						6495670.54	2291547.88	8.00	0.00
						6495669.24	2291548.90	8.00	0.00
						6495668.12	2291550.11	8.00	0.00
						6495667.23	2291551.50	8.00	0.00
						6495666.57	2291553.01	8.00	0.00
						6495666.17	2291554.62	8.00	0.00
						6495666.04	2291556.26	8.00	0.00
						6495666.18	2291557.91	8.00	0.00
						6495666.59	2291559.51	8.00	0.00
						6495667.26	2291561.02	8.00	0.00
						6495668.17	2291562.40	8.00	0.00
						6495669.29	2291563.61	8.00	0.00
						6495670.60	2291564.62	8.00	0.00
						6495672.05	2291565.40	8.00	0.00
						6495673.61	2291565.93	8.00	0.00
						6495675.24	2291566.20	8.00	0.00
						6495676.90	2291566.19	8.00	0.00
						6495678.52	2291565.92	8.00	0.00
						6495680.08	2291565.37	8.00	0.00
						6495681.53	2291564.58	8.00	0.00
						6495848.32	2291454.80	8.00	0.00
						6495848.65	2291454.57	8.00	0.00
						6495950.22	2291381.66	8.00	0.00
						6495950.81	2291381.19	8.00	0.00
						6495951.75	2291380.30	8.00	0.00
						6496097.58	2291221.44	8.00	0.00
						6496097.88	2291221.11	8.00	0.00
						6496098.47	2291220.33	8.00	0.00
						6496228.68	2291030.23	8.00	0.00
						6496229.09	2291029.58	8.00	0.00
						6496229.83	2291027.98	8.00	0.00
						6496320.98	2290775.37	8.00	0.00
						6496321.36	2290774.01	8.00	0.00
						6496370.84	2290537.04	8.00	0.00
						6496370.90	2290536.73	8.00	0.00
						6496371.05	2290535.12	8.00	0.00
						6496373.65	2290331.93	8.00	0.00
						6496373.54	2290330.36	8.00	0.00
						6496355.31	2290210.57	8.00	0.00
						6496355.27	2290210.34	8.00	0.00
						6496354.98	2290209.13	8.00	0.00
						6496329.01	2290124.97	8.00	0.00
						6496328.43	2290123.52	8.00	0.00
						6496327.64	2290122.17	8.00	0.00
						6496326.64	2290120.97	8.00	0.00
						6496325.46	2290119.93	8.00	0.00
						6496324.14	2290119.09	8.00	0.00
						6496322.71	2290118.47	8.00	0.00
CA74	CA74	8.00	r			6496015.24	2290299.22	8.00	0.00
						6496013.56	2290299.07	8.00	0.00
						6496011.88	2290299.20	8.00	0.00
						6496010.24	2290299.62	8.00	0.00
						6496008.69	2290300.30	8.00	0.00
						6496007.29	2290301.24	8.00	0.00
						6496006.06	2290302.40	8.00	0.00
						6496005.04	2290303.75	8.00	0.00
						6496004.26	2290305.25	8.00	0.00
						6496003.75	2290306.86	8.00	0.00
						6496003.52	2290308.53	8.00	0.00
						6496003.57	2290310.22	8.00	0.00
						6496003.91	2290311.88	8.00	0.00
						6496004.52	2290313.46	8.00	0.00
						6496049.08	2290404.71	8.00	0.00
						6496051.54	2290456.55	8.00	0.00
						6496038.66	2290572.47	8.00	0.00
						6496005.13	2290732.41	8.00	0.00
						6495927.94	2290904.79	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6495816.92	2291046.80	8.00	0.00
						6495729.41	2291144.60	8.00	0.00
						6495522.22	2291285.60	8.00	0.00
						6495520.87	2291286.70	8.00	0.00
						6495519.73	2291288.02	8.00	0.00
						6495518.84	2291289.52	8.00	0.00
						6495518.22	2291291.15	8.00	0.00
						6495517.90	2291292.86	8.00	0.00
						6495517.87	2291294.60	8.00	0.00
						6495518.15	2291296.32	8.00	0.00
						6495518.73	2291297.97	8.00	0.00
						6495519.58	2291299.49	8.00	0.00
						6495520.68	2291300.84	8.00	0.00
						6495522.00	2291301.98	8.00	0.00
						6495523.50	2291302.87	8.00	0.00
						6495525.13	2291303.49	8.00	0.00
						6495526.84	2291303.81	8.00	0.00
						6495528.58	2291303.84	8.00	0.00
						6495530.31	2291303.56	8.00	0.00
						6495531.95	2291302.98	8.00	0.00
						6495533.47	2291302.13	8.00	0.00
						6495741.68	2291160.45	8.00	0.00
						6495742.48	2291159.84	8.00	0.00
						6495743.50	2291158.85	8.00	0.00
						6495832.04	2291059.89	8.00	0.00
						6495832.25	2291059.65	8.00	0.00
						6495832.47	2291059.38	8.00	0.00
						6495944.45	2290916.15	8.00	0.00
						6495945.23	2290914.99	8.00	0.00
						6495945.70	2290914.08	8.00	0.00
						6496023.82	2290739.60	8.00	0.00
						6496024.09	2290738.93	8.00	0.00
						6496024.48	2290737.56	8.00	0.00
						6496058.34	2290576.11	8.00	0.00
						6496058.40	2290575.79	8.00	0.00
						6496058.49	2290575.16	8.00	0.00
						6496071.51	2290457.97	8.00	0.00
						6496071.57	2290456.87	8.00	0.00
						6496071.56	2290456.39	8.00	0.00
						6496068.96	2290401.70	8.00	0.00
						6496068.80	2290400.36	8.00	0.00
						6496068.46	2290399.05	8.00	0.00
						6496067.95	2290397.79	8.00	0.00
						6496022.49	2290304.68	8.00	0.00
						6496021.70	2290303.33	8.00	0.00
						6496020.70	2290302.12	8.00	0.00
						6496019.52	2290301.08	8.00	0.00
						6496018.20	2290300.24	8.00	0.00
						6496016.76	2290299.61	8.00	0.00
CA75	CA75	8.00	r			6497211.75	2289548.58	8.00	0.00
						6497210.34	2289548.43	8.00	0.00
						6497208.93	2289548.49	8.00	0.00
						6497207.54	2289548.74	8.00	0.00
						6497206.20	2289549.19	8.00	0.00
						6497204.93	2289549.81	8.00	0.00
						6496564.30	2289935.23	8.00	0.00
						6496298.69	2290088.87	8.00	0.00
						6495988.74	2290273.80	8.00	0.00
						6495987.33	2290274.82	8.00	0.00
						6495986.12	2290276.06	8.00	0.00
						6495985.14	2290277.50	8.00	0.00
						6495984.42	2290279.09	8.00	0.00
						6495983.99	2290280.77	8.00	0.00
						6495983.86	2290282.51	8.00	0.00
						6495984.04	2290284.24	8.00	0.00
						6495984.50	2290285.91	8.00	0.00
						6495985.26	2290287.48	8.00	0.00
						6495986.27	2290288.89	8.00	0.00
						6495987.51	2290290.11	8.00	0.00
						6495988.95	2290291.10	8.00	0.00
						6495990.53	2290291.82	8.00	0.00
						6495992.21	2290292.25	8.00	0.00
						6495993.95	2290292.39	8.00	0.00
						6495995.68	2290292.22	8.00	0.00
						6495997.35	2290291.76	8.00	0.00
						6495998.92	2290291.01	8.00	0.00
						6496308.82	2290106.11	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6496574.46	2289952.46	8.00	0.00
						6497215.16	2289567.00	8.00	0.00
						6497216.56	2289565.98	8.00	0.00
						6497217.77	2289564.74	8.00	0.00
						6497218.74	2289563.31	8.00	0.00
						6497219.45	2289561.73	8.00	0.00
						6497219.88	2289560.05	8.00	0.00
						6497220.01	2289558.33	8.00	0.00
						6497219.84	2289556.60	8.00	0.00
						6497219.38	2289554.94	8.00	0.00
						6497218.64	2289553.37	8.00	0.00
						6497217.64	2289551.96	8.00	0.00
						6497216.41	2289550.74	8.00	0.00
						6497214.99	2289549.76	8.00	0.00
						6497213.42	2289549.03	8.00	0.00
CA76	CA76	8.00	r			6493424.55	2291930.88	8.00	0.00
						6493422.88	2291930.72	8.00	0.00
						6493421.20	2291930.86	8.00	0.00
						6493419.56	2291931.27	8.00	0.00
						6493418.02	2291931.95	8.00	0.00
						6493416.62	2291932.87	8.00	0.00
						6493415.39	2291934.02	8.00	0.00
						6493414.37	2291935.36	8.00	0.00
						6493413.59	2291936.86	8.00	0.00
						6493413.08	2291938.46	8.00	0.00
						6493412.83	2291940.12	8.00	0.00
						6493412.87	2291941.81	8.00	0.00
						6493413.20	2291943.46	8.00	0.00
						6493413.79	2291945.03	8.00	0.00
						6493414.64	2291946.49	8.00	0.00
						6493415.72	2291947.78	8.00	0.00
						6493417.01	2291948.86	8.00	0.00
						6493418.46	2291949.72	8.00	0.00
						6493576.02	2292026.05	8.00	0.00
						6493576.96	2292026.45	8.00	0.00
						6493577.95	2292026.75	8.00	0.00
						6493700.89	2292057.49	8.00	0.00
						6493774.41	2292115.03	8.00	0.00
						6493730.57	2292381.44	8.00	0.00
						6493701.47	2292426.71	8.00	0.00
						6493591.90	2292505.46	8.00	0.00
						6493590.83	2292506.35	8.00	0.00
						6493589.90	2292507.38	8.00	0.00
						6493589.11	2292508.52	8.00	0.00
						6493530.07	2292609.25	8.00	0.00
						6493529.46	2292610.49	8.00	0.00
						6493529.02	2292611.81	8.00	0.00
						6493528.77	2292613.17	8.00	0.00
						6493518.36	2292706.92	8.00	0.00
						6493518.30	2292708.02	8.00	0.00
						6493518.39	2292709.41	8.00	0.00
						6493573.95	2293105.25	8.00	0.00
						6493574.32	2293106.88	8.00	0.00
						6493574.96	2293108.44	8.00	0.00
						6493575.85	2293109.86	8.00	0.00
						6493607.10	2293151.52	8.00	0.00
						6493608.06	2293152.63	8.00	0.00
						6493609.17	2293153.57	8.00	0.00
						6493873.06	2293348.02	8.00	0.00
						6493874.46	2293348.89	8.00	0.00
						6493875.99	2293349.51	8.00	0.00
						6493877.60	2293349.87	8.00	0.00
						6493879.25	2293349.97	8.00	0.00
						6493880.90	2293349.79	8.00	0.00
						6493882.49	2293349.34	8.00	0.00
						6493883.98	2293348.64	8.00	0.00
						6493885.34	2293347.70	8.00	0.00
						6493886.52	2293346.55	8.00	0.00
						6493887.50	2293345.22	8.00	0.00
						6493888.25	2293343.74	8.00	0.00
						6493888.75	2293342.17	8.00	0.00
						6493888.97	2293340.53	8.00	0.00
						6493888.93	2293338.88	8.00	0.00
						6493888.62	2293337.26	8.00	0.00
						6493888.04	2293335.71	8.00	0.00
						6493887.21	2293334.28	8.00	0.00
						6493886.17	2293333.00	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6493884.92	2293331.92	8.00	0.00
						6493622.22	2293138.35	8.00	0.00
						6493593.40	2293099.92	8.00	0.00
						6493538.37	2292707.88	8.00	0.00
						6493548.42	2292617.49	8.00	0.00
						6493605.30	2292520.46	8.00	0.00
						6493714.69	2292441.84	8.00	0.00
						6493715.66	2292441.05	8.00	0.00
						6493716.52	2292440.14	8.00	0.00
						6493717.26	2292439.13	8.00	0.00
						6493748.51	2292390.52	8.00	0.00
						6493749.16	2292389.34	8.00	0.00
						6493749.65	2292388.09	8.00	0.00
						6493749.96	2292386.79	8.00	0.00
						6493795.11	2292112.43	8.00	0.00
						6493795.24	2292110.90	8.00	0.00
						6493795.14	2292109.38	8.00	0.00
						6493794.81	2292107.89	8.00	0.00
						6493794.25	2292106.47	8.00	0.00
						6493793.49	2292105.15	8.00	0.00
						6493792.53	2292103.96	8.00	0.00
						6493791.40	2292102.93	8.00	0.00
						6493711.54	2292040.43	8.00	0.00
						6493710.39	2292039.65	8.00	0.00
						6493709.13	2292039.03	8.00	0.00
						6493707.80	2292038.60	8.00	0.00
						6493583.81	2292007.60	8.00	0.00
						6493427.17	2291931.72	8.00	0.00
						6493426.24	2291931.33	8.00	0.00
CA77	CA77	8.00	r			6495131.33	2292716.16	8.00	0.00
						6495179.94	2292681.44	8.00	0.00
						6495181.05	2292680.52	8.00	0.00
						6495182.01	2292679.46	8.00	0.00
						6495182.81	2292678.26	8.00	0.00
						6495183.43	2292676.97	8.00	0.00
						6495273.71	2292447.80	8.00	0.00
						6495274.14	2292446.43	8.00	0.00
						6495274.37	2292445.00	8.00	0.00
						6495274.39	2292443.56	8.00	0.00
						6495274.20	2292442.14	8.00	0.00
						6495239.52	2292272.16	8.00	0.00
						6495208.29	2292088.26	8.00	0.00
						6495207.83	2292086.55	8.00	0.00
						6495207.53	2292085.81	8.00	0.00
						6495151.97	2291964.28	8.00	0.00
						6495151.57	2291963.49	8.00	0.00
						6494995.59	2291689.66	8.00	0.00
						6494951.49	2291587.90	8.00	0.00
						6494951.49	2291471.91	8.00	0.00
						6494951.41	2291470.62	8.00	0.00
						6494940.99	2291390.76	8.00	0.00
						6494940.64	2291389.15	8.00	0.00
						6494940.04	2291387.62	8.00	0.00
						6494939.19	2291386.20	8.00	0.00
						6494938.12	2291384.95	8.00	0.00
						6494936.85	2291383.89	8.00	0.00
						6494887.30	2291348.79	8.00	0.00
						6494885.88	2291347.95	8.00	0.00
						6494884.34	2291347.36	8.00	0.00
						6494882.72	2291347.02	8.00	0.00
						6494881.07	2291346.96	8.00	0.00
						6494879.43	2291347.17	8.00	0.00
						6494877.85	2291347.65	8.00	0.00
						6494876.37	2291348.38	8.00	0.00
						6494875.03	2291349.35	8.00	0.00
						6494873.87	2291350.52	8.00	0.00
						6494872.91	2291351.87	8.00	0.00
						6494872.19	2291353.35	8.00	0.00
						6494871.73	2291354.94	8.00	0.00
						6494871.53	2291356.58	8.00	0.00
						6494871.60	2291358.23	8.00	0.00
						6494871.95	2291359.84	8.00	0.00
						6494872.55	2291361.38	8.00	0.00
						6494873.40	2291362.79	8.00	0.00
						6494874.48	2291364.05	8.00	0.00
						6494875.74	2291365.11	8.00	0.00
						6494921.72	2291397.68	8.00	0.00

Name	ID	Height		Coordinates			
		Begin	End	x	y	z	Ground
		(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
				6494931.49	2291472.56	8.00	0.00
				6494931.49	2291589.97	8.00	0.00
				6494931.58	2291591.33	8.00	0.00
				6494931.86	2291592.66	8.00	0.00
				6494932.31	2291593.94	8.00	0.00
				6494977.45	2291698.11	8.00	0.00
				6494977.94	2291699.09	8.00	0.00
				6495133.97	2291973.00	8.00	0.00
				6495188.80	2292092.93	8.00	0.00
				6495219.83	2292275.70	8.00	0.00
				6495219.89	2292276.00	8.00	0.00
				6495254.02	2292443.23	8.00	0.00
				6495165.91	2292666.88	8.00	0.00
				6495122.31	2292698.02	8.00	0.00
				6495077.68	2292698.02	8.00	0.00
				6494886.25	2292499.76	8.00	0.00
				6494796.04	2292402.61	8.00	0.00
				6494795.13	2292401.74	8.00	0.00
				6494670.11	2292297.56	8.00	0.00
				6494669.54	2292297.12	8.00	0.00
				6494462.59	2292148.81	8.00	0.00
				6494414.96	2292080.76	8.00	0.00
				6494414.43	2292080.07	8.00	0.00
				6494414.10	2292079.69	8.00	0.00
				6494323.82	2291982.47	8.00	0.00
				6494322.92	2291981.61	8.00	0.00
				6494322.49	2291981.27	8.00	0.00
				6494141.93	2291845.86	8.00	0.00
				6494141.30	2291845.42	8.00	0.00
				6493797.55	2291626.67	8.00	0.00
				6493797.18	2291626.45	8.00	0.00
				6493796.08	2291625.90	8.00	0.00
				6493705.80	2291587.70	8.00	0.00
				6493704.70	2291587.31	8.00	0.00
				6493703.56	2291587.05	8.00	0.00
				6493702.40	2291586.93	8.00	0.00
				6493422.15	2291573.08	8.00	0.00
				6493420.50	2291573.13	8.00	0.00
				6493418.88	2291573.46	8.00	0.00
				6493417.33	2291574.05	8.00	0.00
				6493415.91	2291574.88	8.00	0.00
				6493414.64	2291575.94	8.00	0.00
				6493413.56	2291577.19	8.00	0.00
				6493412.71	2291578.60	8.00	0.00
				6493412.09	2291580.14	8.00	0.00
				6493411.74	2291581.75	8.00	0.00
				6493411.66	2291583.40	8.00	0.00
				6493411.85	2291585.04	8.00	0.00
				6493412.31	2291586.63	8.00	0.00
				6493413.02	2291588.12	8.00	0.00
				6493413.97	2291589.47	8.00	0.00
				6493415.13	2291590.64	8.00	0.00
				6493416.47	2291591.62	8.00	0.00
				6493417.94	2291592.35	8.00	0.00
				6493419.52	2291592.84	8.00	0.00
				6493421.16	2291593.05	8.00	0.00
				6493699.64	2291606.81	8.00	0.00
				6493787.52	2291643.99	8.00	0.00
				6494130.24	2291862.09	8.00	0.00
				6494309.77	2291996.74	8.00	0.00
				6494398.97	2292092.80	8.00	0.00
				6494447.19	2292161.68	8.00	0.00
				6494448.27	2292162.97	8.00	0.00
				6494449.55	2292164.07	8.00	0.00
				6494657.59	2292313.16	8.00	0.00
				6494781.82	2292416.69	8.00	0.00
				6494871.73	2292513.51	8.00	0.00
				6495066.24	2292714.97	8.00	0.00
				6495067.44	2292716.03	8.00	0.00
				6495068.80	2292716.89	8.00	0.00
				6495070.28	2292717.51	8.00	0.00
				6495071.84	2292717.90	8.00	0.00
				6495073.43	2292718.02	8.00	0.00
				6495125.52	2292718.02	8.00	0.00
				6495127.06	2292717.90	8.00	0.00
				6495128.57	2292717.55	8.00	0.00
				6495130.00	2292716.96	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
CA78	CA78	8.00	r			6494911.59	2290882.68	8.00	0.00
						6494909.97	2290882.53	8.00	0.00
						6494908.36	2290882.64	8.00	0.00
						6494906.78	2290883.01	8.00	0.00
						6494905.28	2290883.64	8.00	0.00
						6494903.90	2290884.49	8.00	0.00
						6494902.68	2290885.56	8.00	0.00
						6494901.65	2290886.81	8.00	0.00
						6494900.83	2290888.21	8.00	0.00
						6494900.25	2290889.72	8.00	0.00
						6494899.93	2290891.31	8.00	0.00
						6494899.86	2290892.93	8.00	0.00
						6494907.14	2291075.08	8.00	0.00
						6494872.81	2291215.80	8.00	0.00
						6494838.65	2291328.55	8.00	0.00
						6494753.04	2291448.40	8.00	0.00
						6494656.87	2291561.74	8.00	0.00
						6494557.50	2291633.70	8.00	0.00
						6494454.69	2291695.39	8.00	0.00
						6494338.29	2291733.05	8.00	0.00
						6494213.89	2291757.24	8.00	0.00
						6494212.38	2291757.66	8.00	0.00
						6494210.78	2291758.40	8.00	0.00
						6494169.09	2291782.72	8.00	0.00
						6494167.74	2291783.66	8.00	0.00
						6494166.57	2291784.81	8.00	0.00
						6494165.60	2291786.14	8.00	0.00
						6494148.31	2291814.42	8.00	0.00
						6494147.54	2291815.99	8.00	0.00
						6494147.04	2291817.66	8.00	0.00
						6494146.85	2291819.39	8.00	0.00
						6494146.96	2291821.13	8.00	0.00
						6494147.37	2291822.82	8.00	0.00
						6494148.06	2291824.42	8.00	0.00
						6494149.03	2291825.87	8.00	0.00
						6494150.23	2291827.14	8.00	0.00
						6494151.63	2291828.17	8.00	0.00
						6494153.19	2291828.95	8.00	0.00
						6494154.86	2291829.44	8.00	0.00
						6494156.60	2291829.64	8.00	0.00
						6494158.34	2291829.53	8.00	0.00
						6494160.03	2291829.12	8.00	0.00
						6494161.63	2291828.42	8.00	0.00
						6494163.08	2291827.46	8.00	0.00
						6494164.34	2291826.26	8.00	0.00
						6494165.38	2291824.85	8.00	0.00
						6494181.35	2291798.72	8.00	0.00
						6494219.37	2291776.54	8.00	0.00
						6494342.70	2291752.56	8.00	0.00
						6494343.87	2291752.26	8.00	0.00
						6494461.93	2291714.07	8.00	0.00
						6494462.27	2291713.95	8.00	0.00
						6494463.92	2291713.17	8.00	0.00
						6494568.16	2291650.63	8.00	0.00
						6494568.88	2291650.15	8.00	0.00
						6494669.58	2291577.23	8.00	0.00
						6494670.14	2291576.80	8.00	0.00
						6494671.34	2291575.61	8.00	0.00
						6494768.58	2291461.00	8.00	0.00
						6494769.07	2291460.36	8.00	0.00
						6494855.88	2291338.84	8.00	0.00
						6494856.71	2291337.44	8.00	0.00
						6494857.31	2291335.92	8.00	0.00
						6494892.03	2291221.34	8.00	0.00
						6494892.18	2291220.81	8.00	0.00
						6494926.90	2291078.45	8.00	0.00
						6494927.14	2291077.07	8.00	0.00
						6494927.18	2291075.68	8.00	0.00
						6494919.84	2290892.13	8.00	0.00
						6494919.63	2290890.45	8.00	0.00
						6494919.14	2290888.83	8.00	0.00
						6494918.38	2290887.32	8.00	0.00
						6494917.38	2290885.95	8.00	0.00
						6494916.16	2290884.77	8.00	0.00
						6494914.77	2290883.82	8.00	0.00
						6494913.23	2290883.12	8.00	0.00
CA79	CA79	8.00	r			6495228.54	2290764.38	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6495226.87	2290764.23	8.00	0.00
						6495225.21	2290764.36	8.00	0.00
						6495223.59	2290764.76	8.00	0.00
						6495222.06	2290765.43	8.00	0.00
						6495220.66	2290766.34	8.00	0.00
						6495219.43	2290767.47	8.00	0.00
						6495218.41	2290768.79	8.00	0.00
						6495217.62	2290770.26	8.00	0.00
						6495217.09	2290771.84	8.00	0.00
						6495216.83	2290773.49	8.00	0.00
						6495216.84	2290775.16	8.00	0.00
						6495217.14	2290776.80	8.00	0.00
						6495217.70	2290778.38	8.00	0.00
						6495218.52	2290779.83	8.00	0.00
						6495269.60	2290855.38	8.00	0.00
						6495310.22	2290940.00	8.00	0.00
						6495320.45	2291028.62	8.00	0.00
						6495320.49	2291028.95	8.00	0.00
						6495351.74	2291237.29	8.00	0.00
						6495352.01	2291238.53	8.00	0.00
						6495352.44	2291239.74	8.00	0.00
						6495353.01	2291240.87	8.00	0.00
						6495373.82	2291275.55	8.00	0.00
						6495633.47	2291736.00	8.00	0.00
						6495647.03	2291793.65	8.00	0.00
						6495647.30	2291794.58	8.00	0.00
						6495679.74	2291889.88	8.00	0.00
						6495680.46	2291891.46	8.00	0.00
						6495681.44	2291892.89	8.00	0.00
						6495682.65	2291894.14	8.00	0.00
						6495684.07	2291895.15	8.00	0.00
						6495685.63	2291895.90	8.00	0.00
						6495687.30	2291896.38	8.00	0.00
						6495689.03	2291896.55	8.00	0.00
						6495690.76	2291896.43	8.00	0.00
						6495692.45	2291896.00	8.00	0.00
						6495694.03	2291895.29	8.00	0.00
						6495695.47	2291894.32	8.00	0.00
						6495696.72	2291893.11	8.00	0.00
						6495697.74	2291891.71	8.00	0.00
						6495698.51	2291890.15	8.00	0.00
						6495698.99	2291888.48	8.00	0.00
						6495699.17	2291886.75	8.00	0.00
						6495699.06	2291885.02	8.00	0.00
						6495698.64	2291883.33	8.00	0.00
						6495666.39	2291788.59	8.00	0.00
						6495652.61	2291730.04	8.00	0.00
						6495652.28	2291728.91	8.00	0.00
						6495651.59	2291727.42	8.00	0.00
						6495391.15	2291265.57	8.00	0.00
						6495391.04	2291265.38	8.00	0.00
						6495371.22	2291232.36	8.00	0.00
						6495340.29	2291026.15	8.00	0.00
						6495329.90	2290936.04	8.00	0.00
						6495329.57	2290934.42	8.00	0.00
						6495328.98	2290932.86	8.00	0.00
						6495287.31	2290846.06	8.00	0.00
						6495286.96	2290845.39	8.00	0.00
						6495286.58	2290844.78	8.00	0.00
						6495235.08	2290768.63	8.00	0.00
						6495234.08	2290767.38	8.00	0.00
						6495232.90	2290766.30	8.00	0.00
						6495231.55	2290765.43	8.00	0.00
						6495230.09	2290764.79	8.00	0.00
CA80	CA80	8.00	r			6495677.77	2291546.38	8.00	0.00
						6495676.36	2291546.23	8.00	0.00
						6495674.95	2291546.29	8.00	0.00
						6495673.56	2291546.54	8.00	0.00
						6495672.21	2291546.99	8.00	0.00
						6495670.95	2291547.62	8.00	0.00
						6495610.22	2291584.39	8.00	0.00
						6495608.82	2291585.41	8.00	0.00
						6495607.61	2291586.67	8.00	0.00
						6495606.64	2291588.11	8.00	0.00
						6495605.94	2291589.70	8.00	0.00
						6495605.52	2291591.38	8.00	0.00
						6495605.40	2291593.12	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6495605.58	2291594.84	8.00	0.00
						6495606.06	2291596.52	8.00	0.00
						6495606.82	2291598.08	8.00	0.00
						6495607.84	2291599.49	8.00	0.00
						6495609.08	2291600.70	8.00	0.00
						6495610.52	2291601.67	8.00	0.00
						6495612.10	2291602.38	8.00	0.00
						6495613.79	2291602.81	8.00	0.00
						6495615.52	2291602.94	8.00	0.00
						6495617.25	2291602.77	8.00	0.00
						6495618.92	2291602.30	8.00	0.00
						6495620.49	2291601.55	8.00	0.00
						6495681.22	2291564.78	8.00	0.00
						6495682.61	2291563.76	8.00	0.00
						6495683.81	2291562.52	8.00	0.00
						6495684.78	2291561.09	8.00	0.00
						6495685.48	2291559.51	8.00	0.00
						6495685.91	2291557.83	8.00	0.00
						6495686.04	2291556.11	8.00	0.00
						6495685.87	2291554.39	8.00	0.00
						6495685.40	2291552.73	8.00	0.00
						6495684.66	2291551.17	8.00	0.00
						6495683.66	2291549.76	8.00	0.00
						6495682.43	2291548.54	8.00	0.00
						6495681.01	2291547.55	8.00	0.00
						6495679.44	2291546.83	8.00	0.00
CA81	CA81	8.00	r			6495529.58	2291284.02	8.00	0.00
						6495528.14	2291283.87	8.00	0.00
						6495526.70	2291283.93	8.00	0.00
						6495525.28	2291284.20	8.00	0.00
						6495523.91	2291284.67	8.00	0.00
						6495522.62	2291285.34	8.00	0.00
						6495454.65	2291326.98	8.00	0.00
						6495453.25	2291328.02	8.00	0.00
						6495452.05	2291329.28	8.00	0.00
						6495451.09	2291330.74	8.00	0.00
						6495450.39	2291332.34	8.00	0.00
						6495449.99	2291334.03	8.00	0.00
						6495449.88	2291335.77	8.00	0.00
						6495450.08	2291337.50	8.00	0.00
						6495450.57	2291339.17	8.00	0.00
						6495451.35	2291340.73	8.00	0.00
						6495452.39	2291342.14	8.00	0.00
						6495453.65	2291343.34	8.00	0.00
						6495455.10	2291344.30	8.00	0.00
						6495456.70	2291344.99	8.00	0.00
						6495458.40	2291345.40	8.00	0.00
						6495460.14	2291345.51	8.00	0.00
						6495461.87	2291345.31	8.00	0.00
						6495463.54	2291344.81	8.00	0.00
						6495465.10	2291344.04	8.00	0.00
						6495533.07	2291302.39	8.00	0.00
						6495534.46	2291301.37	8.00	0.00
						6495535.65	2291300.12	8.00	0.00
						6495536.61	2291298.69	8.00	0.00
						6495537.31	2291297.11	8.00	0.00
						6495537.72	2291295.44	8.00	0.00
						6495537.84	2291293.72	8.00	0.00
						6495537.67	2291292.00	8.00	0.00
						6495537.20	2291290.34	8.00	0.00
						6495536.46	2291288.78	8.00	0.00
						6495535.46	2291287.38	8.00	0.00
						6495534.23	2291286.17	8.00	0.00
						6495532.81	2291285.19	8.00	0.00
						6495531.25	2291284.46	8.00	0.00
CA82	CA82	8.00	r			6495992.67	2290280.59	8.00	0.00
						6495991.26	2290280.45	8.00	0.00
						6495989.85	2290280.50	8.00	0.00
						6495988.46	2290280.75	8.00	0.00
						6495987.12	2290281.20	8.00	0.00
						6495985.85	2290281.83	8.00	0.00
						6495646.94	2290486.16	8.00	0.00
						6495645.61	2290487.12	8.00	0.00
						6495644.45	2290488.28	8.00	0.00
						6495643.50	2290489.61	8.00	0.00
						6495642.79	2290491.09	8.00	0.00
						6495642.32	2290492.66	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6495642.11	2290494.28	8.00	0.00
						6495642.17	2290495.92	8.00	0.00
						6495642.50	2290497.53	8.00	0.00
						6495643.09	2290499.06	8.00	0.00
						6495643.92	2290500.47	8.00	0.00
						6495692.33	2290569.42	8.00	0.00
						6495702.15	2290641.45	8.00	0.00
						6495678.78	2290731.59	8.00	0.00
						6495603.95	2290840.43	8.00	0.00
						6495494.32	2290946.63	8.00	0.00
						6495413.27	2290997.29	8.00	0.00
						6495365.70	2291008.71	8.00	0.00
						6495364.04	2291009.26	8.00	0.00
						6495362.51	2291010.09	8.00	0.00
						6495361.15	2291011.18	8.00	0.00
						6495359.99	2291012.48	8.00	0.00
						6495359.08	2291013.97	8.00	0.00
						6495358.44	2291015.59	8.00	0.00
						6495358.10	2291017.30	8.00	0.00
						6495358.05	2291019.04	8.00	0.00
						6495358.31	2291020.77	8.00	0.00
						6495358.86	2291022.42	8.00	0.00
						6495359.69	2291023.95	8.00	0.00
						6495360.78	2291025.32	8.00	0.00
						6495362.08	2291026.47	8.00	0.00
						6495363.57	2291027.38	8.00	0.00
						6495365.19	2291028.02	8.00	0.00
						6495366.90	2291028.37	8.00	0.00
						6495368.64	2291028.41	8.00	0.00
						6495370.36	2291028.16	8.00	0.00
						6495419.52	2291016.36	8.00	0.00
						6495421.05	2291015.86	8.00	0.00
						6495422.48	2291015.12	8.00	0.00
						6495505.82	2290963.03	8.00	0.00
						6495506.95	2290962.21	8.00	0.00
						6495507.48	2290961.73	8.00	0.00
						6495618.59	2290854.10	8.00	0.00
						6495619.29	2290853.34	8.00	0.00
						6495619.87	2290852.58	8.00	0.00
						6495696.26	2290741.47	8.00	0.00
						6495697.12	2290739.95	8.00	0.00
						6495697.70	2290738.31	8.00	0.00
						6495722.00	2290644.56	8.00	0.00
						6495722.25	2290643.29	8.00	0.00
						6495722.32	2290641.99	8.00	0.00
						6495722.23	2290640.70	8.00	0.00
						6495711.82	2290564.31	8.00	0.00
						6495711.48	2290562.76	8.00	0.00
						6495710.90	2290561.28	8.00	0.00
						6495710.09	2290559.92	8.00	0.00
						6495666.45	2290497.75	8.00	0.00
						6495996.10	2290299.00	8.00	0.00
						6495997.49	2290297.99	8.00	0.00
						6495998.70	2290296.74	8.00	0.00
						6495999.67	2290295.31	8.00	0.00
						6496000.37	2290293.73	8.00	0.00
						6496000.80	2290292.06	8.00	0.00
						6496000.93	2290290.33	8.00	0.00
						6496000.76	2290288.61	8.00	0.00
						6496000.30	2290286.94	8.00	0.00
						6495999.56	2290285.38	8.00	0.00
						6495998.56	2290283.97	8.00	0.00
						6495997.33	2290282.75	8.00	0.00
						6495995.91	2290281.77	8.00	0.00
						6495994.34	2290281.04	8.00	0.00
CA83	CA83	8.00	r			6494095.44	2289456.38	8.00	0.00
						6494093.77	2289456.23	8.00	0.00
						6494092.10	2289456.36	8.00	0.00
						6494090.47	2289456.76	8.00	0.00
						6494088.94	2289457.44	8.00	0.00
						6494087.54	2289458.35	8.00	0.00
						6494086.31	2289459.49	8.00	0.00
						6494085.29	2289460.82	8.00	0.00
						6494084.51	2289462.31	8.00	0.00
						6494083.98	2289463.90	8.00	0.00
						6494083.73	2289465.55	8.00	0.00
						6494083.75	2289467.23	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6494084.06	2289468.88	8.00	0.00
						6494149.17	2289705.86	8.00	0.00
						6494149.41	2289706.63	8.00	0.00
						6494149.56	2289707.01	8.00	0.00
						6494167.79	2289751.28	8.00	0.00
						6494168.46	2289752.62	8.00	0.00
						6494169.33	2289753.85	8.00	0.00
						6494170.37	2289754.93	8.00	0.00
						6494171.56	2289755.84	8.00	0.00
						6494172.87	2289756.57	8.00	0.00
						6494174.28	2289757.09	8.00	0.00
						6494175.74	2289757.39	8.00	0.00
						6494295.12	2289772.96	8.00	0.00
						6494450.23	2289806.57	8.00	0.00
						6494545.37	2289842.57	8.00	0.00
						6494656.38	2289899.36	8.00	0.00
						6494830.40	2290013.65	8.00	0.00
						6494830.98	2290014.00	8.00	0.00
						6494906.58	2290055.71	8.00	0.00
						6494907.99	2290056.35	8.00	0.00
						6494909.43	2290056.76	8.00	0.00
						6494998.88	2290074.89	8.00	0.00
						6495000.61	2290075.09	8.00	0.00
						6495002.35	2290074.98	8.00	0.00
						6495004.04	2290074.57	8.00	0.00
						6495005.64	2290073.88	8.00	0.00
						6495007.09	2290072.91	8.00	0.00
						6495008.36	2290071.71	8.00	0.00
						6495009.39	2290070.31	8.00	0.00
						6495010.17	2290068.75	8.00	0.00
						6495010.66	2290067.08	8.00	0.00
						6495010.86	2290065.35	8.00	0.00
						6495010.75	2290063.61	8.00	0.00
						6495010.34	2290061.91	8.00	0.00
						6495009.65	2290060.32	8.00	0.00
						6495008.69	2290058.86	8.00	0.00
						6495007.49	2290057.60	8.00	0.00
						6495006.08	2290056.56	8.00	0.00
						6495004.52	2290055.79	8.00	0.00
						6495002.85	2290055.29	8.00	0.00
						6494914.90	2290037.46	8.00	0.00
						6494841.06	2289996.72	8.00	0.00
						6494666.90	2289882.35	8.00	0.00
						6494666.41	2289882.05	8.00	0.00
						6494665.97	2289881.80	8.00	0.00
						6494553.99	2289824.51	8.00	0.00
						6494552.97	2289824.06	8.00	0.00
						6494456.56	2289787.58	8.00	0.00
						6494455.20	2289787.18	8.00	0.00
						6494298.95	2289753.33	8.00	0.00
						6494298.57	2289753.25	8.00	0.00
						6494298.12	2289753.19	8.00	0.00
						6494184.08	2289738.31	8.00	0.00
						6494168.29	2289699.97	8.00	0.00
						6494103.35	2289463.58	8.00	0.00
						6494102.80	2289462.07	8.00	0.00
						6494102.01	2289460.66	8.00	0.00
						6494101.01	2289459.40	8.00	0.00
						6494099.82	2289458.32	8.00	0.00
						6494098.47	2289457.44	8.00	0.00
						6494097.00	2289456.79	8.00	0.00
CA84	CA84	8.00	r			6494423.11	2289164.64	8.00	0.00
						6494261.65	2289143.81	8.00	0.00
						6494260.55	2289143.73	8.00	0.00
						6494112.02	2289141.12	8.00	0.00
						6494111.40	2289141.14	8.00	0.00
						6493965.56	2289148.95	8.00	0.00
						6493964.35	2289149.09	8.00	0.00
						6493745.59	2289188.15	8.00	0.00
						6493745.31	2289188.21	8.00	0.00
						6493681.41	2289201.53	8.00	0.00
						6493680.85	2289201.67	8.00	0.00
						6493450.47	2289263.86	8.00	0.00
						6493448.92	2289264.43	8.00	0.00
						6493447.48	2289265.23	8.00	0.00
						6493446.19	2289266.27	8.00	0.00
						6493445.09	2289267.50	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6493444.21	2289268.90	8.00	0.00
						6493443.57	2289270.42	8.00	0.00
						6493443.19	2289272.03	8.00	0.00
						6493443.08	2289273.68	8.00	0.00
						6493443.24	2289275.32	8.00	0.00
						6493443.67	2289276.91	8.00	0.00
						6493444.36	2289278.42	8.00	0.00
						6493445.28	2289279.78	8.00	0.00
						6493446.42	2289280.98	8.00	0.00
						6493447.74	2289281.98	8.00	0.00
						6493449.21	2289282.74	8.00	0.00
						6493450.78	2289283.25	8.00	0.00
						6493452.41	2289283.50	8.00	0.00
						6493454.06	2289283.47	8.00	0.00
						6493455.69	2289283.17	8.00	0.00
						6493685.78	2289221.05	8.00	0.00
						6493749.25	2289207.82	8.00	0.00
						6493967.25	2289168.89	8.00	0.00
						6494112.11	2289161.13	8.00	0.00
						6494259.64	2289163.72	8.00	0.00
						6494420.29	2289184.45	8.00	0.00
						6494562.46	2289210.29	8.00	0.00
						6494699.45	2289259.40	8.00	0.00
						6494896.71	2289342.46	8.00	0.00
						6494940.59	2289365.69	8.00	0.00
						6494941.76	2289366.22	8.00	0.00
						6494942.98	2289366.59	8.00	0.00
						6494944.25	2289366.80	8.00	0.00
						6494998.08	2289372.32	8.00	0.00
						6494999.73	2289372.36	8.00	0.00
						6495001.36	2289372.12	8.00	0.00
						6495002.93	2289371.61	8.00	0.00
						6495004.40	2289370.85	8.00	0.00
						6495005.72	2289369.87	8.00	0.00
						6495006.87	2289368.67	8.00	0.00
						6495007.80	2289367.31	8.00	0.00
						6495008.49	2289365.81	8.00	0.00
						6495008.93	2289364.22	8.00	0.00
						6495009.09	2289362.57	8.00	0.00
						6495008.99	2289360.92	8.00	0.00
						6495008.62	2289359.32	8.00	0.00
						6495007.98	2289357.79	8.00	0.00
						6495007.11	2289356.39	8.00	0.00
						6495006.01	2289355.15	8.00	0.00
						6495004.73	2289354.11	8.00	0.00
						6495003.29	2289353.30	8.00	0.00
						6495001.74	2289352.73	8.00	0.00
						6495000.12	2289352.43	8.00	0.00
						6494948.22	2289347.10	8.00	0.00
						6494905.67	2289324.58	8.00	0.00
						6494904.88	2289324.20	8.00	0.00
						6494706.96	2289240.87	8.00	0.00
						6494706.48	2289240.68	8.00	0.00
						6494568.43	2289191.19	8.00	0.00
						6494566.85	2289190.76	8.00	0.00
						6494423.59	2289164.72	8.00	0.00
CA85	CA85	8.00	r			6476745.87	2275043.45	8.00	0.00
						6472047.32	2274974.64	8.00	0.00
						6472047.02	2274974.65	8.00	0.00
						6471703.36	2274982.46	8.00	0.00
						6470726.42	2274987.61	8.00	0.00
						6470713.50	2273661.63	8.00	0.00
						6470713.35	2273660.03	8.00	0.00
						6470712.95	2273658.47	8.00	0.00
						6470712.31	2273656.99	8.00	0.00
						6470711.43	2273655.64	8.00	0.00
						6470710.36	2273654.45	8.00	0.00
						6470709.10	2273653.44	8.00	0.00
						6470707.70	2273652.65	8.00	0.00
						6470706.19	2273652.09	8.00	0.00
						6470704.61	2273651.79	8.00	0.00
						6470703.00	2273651.74	8.00	0.00
						6470338.70	2273669.95	8.00	0.00
						6469911.86	2273667.35	8.00	0.00
						6469910.29	2273667.47	8.00	0.00
						6469908.76	2273667.83	8.00	0.00
						6469907.31	2273668.43	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6469905.97	2273669.25	8.00	0.00
						6469904.77	2273670.27	8.00	0.00
						6469903.75	2273671.47	8.00	0.00
						6469902.92	2273672.81	8.00	0.00
						6469902.32	2273674.26	8.00	0.00
						6469901.95	2273675.79	8.00	0.00
						6469901.83	2273677.36	8.00	0.00
						6469904.42	2274998.03	8.00	0.00
						6468070.02	2274988.01	8.00	0.00
						6468068.28	2274988.16	8.00	0.00
						6468066.60	2274988.60	8.00	0.00
						6468065.02	2274989.34	8.00	0.00
						6468063.59	2274990.33	8.00	0.00
						6468062.35	2274991.56	8.00	0.00
						6468061.35	2274992.98	8.00	0.00
						6468060.61	2274994.56	8.00	0.00
						6468060.15	2274996.24	8.00	0.00
						6468059.99	2274997.97	8.00	0.00
						6468060.14	2274999.71	8.00	0.00
						6468060.58	2275001.39	8.00	0.00
						6468061.31	2275002.97	8.00	0.00
						6468062.30	2275004.40	8.00	0.00
						6468063.53	2275005.64	8.00	0.00
						6468064.95	2275006.65	8.00	0.00
						6468066.52	2275007.39	8.00	0.00
						6468068.20	2275007.85	8.00	0.00
						6468069.94	2275008.01	8.00	0.00
						6469914.41	2275018.08	8.00	0.00
						6469915.98	2275017.96	8.00	0.00
						6469917.51	2275017.60	8.00	0.00
						6469918.96	2275017.00	8.00	0.00
						6469920.30	2275016.18	8.00	0.00
						6469921.50	2275015.16	8.00	0.00
						6469922.52	2275013.96	8.00	0.00
						6469923.35	2275012.62	8.00	0.00
						6469923.95	2275011.17	8.00	0.00
						6469924.31	2275009.64	8.00	0.00
						6469924.44	2275008.07	8.00	0.00
						6469921.85	2273687.41	8.00	0.00
						6470338.89	2273689.96	8.00	0.00
						6470339.42	2273689.94	8.00	0.00
						6470693.60	2273672.23	8.00	0.00
						6470706.52	2274997.76	8.00	0.00
						6470706.69	2274999.49	8.00	0.00
						6470707.15	2275001.16	8.00	0.00
						6470707.90	2275002.73	8.00	0.00
						6470708.90	2275004.14	8.00	0.00
						6470710.14	2275005.36	8.00	0.00
						6470711.56	2275006.35	8.00	0.00
						6470713.14	2275007.08	8.00	0.00
						6470714.82	2275007.52	8.00	0.00
						6470716.55	2275007.66	8.00	0.00
						6471703.64	2275002.45	8.00	0.00
						6472047.29	2274994.64	8.00	0.00
						6476745.65	2275063.45	8.00	0.00
						6476747.38	2275063.31	8.00	0.00
						6476749.06	2275062.87	8.00	0.00
						6476750.64	2275062.15	8.00	0.00
						6476752.08	2275061.17	8.00	0.00
						6476753.32	2275059.95	8.00	0.00
						6476754.33	2275058.53	8.00	0.00
						6476755.08	2275056.96	8.00	0.00
						6476755.55	2275055.29	8.00	0.00
						6476755.72	2275053.56	8.00	0.00
						6476755.59	2275051.82	8.00	0.00
						6476755.16	2275050.14	8.00	0.00
						6476754.44	2275048.55	8.00	0.00
						6476753.46	2275047.12	8.00	0.00
						6476752.25	2275045.87	8.00	0.00
						6476750.83	2275044.86	8.00	0.00
						6476749.27	2275044.10	8.00	0.00
						6476747.60	2275043.63	8.00	0.00
CA86	CA86	8.00	r			6472046.83	2274244.12	8.00	0.00
						6472046.83	2273863.79	8.00	0.00
						6472231.92	2273867.90	8.00	0.00
						6472233.53	2273867.81	8.00	0.00
						6472235.11	2273867.46	8.00	0.00

Name	ID	Height		Coordinates			
		Begin	End	x	y	z	Ground
		(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
				6472236.61	2273866.86	8.00	0.00
				6472237.99	2273866.02	8.00	0.00
				6472239.22	2273864.98	8.00	0.00
				6472240.26	2273863.75	8.00	0.00
				6472241.09	2273862.37	8.00	0.00
				6472241.70	2273860.87	8.00	0.00
				6472242.05	2273859.30	8.00	0.00
				6472242.14	2273857.69	8.00	0.00
				6472235.74	2273567.32	8.00	0.00
				6472572.81	2273281.77	8.00	0.00
				6472573.55	2273281.07	8.00	0.00
				6472740.10	2273108.03	8.00	0.00
				6472853.66	2273022.33	8.00	0.00
				6473028.48	2272940.32	8.00	0.00
				6473549.17	2272697.33	8.00	0.00
				6473860.82	2272563.15	8.00	0.00
				6474096.61	2272502.57	8.00	0.00
				6474247.38	2272463.81	8.00	0.00
				6475025.23	2272450.81	8.00	0.00
				6475359.34	2272448.64	8.00	0.00
				6476398.80	2272450.81	8.00	0.00
				6476399.13	2272450.80	8.00	0.00
				6476673.20	2272442.07	8.00	0.00
				6476674.93	2272441.86	8.00	0.00
				6476676.60	2272441.36	8.00	0.00
				6476678.15	2272440.57	8.00	0.00
				6476679.55	2272439.52	8.00	0.00
				6476680.74	2272438.25	8.00	0.00
				6476681.69	2272436.79	8.00	0.00
				6476682.38	2272435.19	8.00	0.00
				6476682.78	2272433.49	8.00	0.00
				6476682.87	2272431.75	8.00	0.00
				6476682.67	2272430.02	8.00	0.00
				6476682.16	2272428.35	8.00	0.00
				6476681.38	2272426.80	8.00	0.00
				6476680.33	2272425.40	8.00	0.00
				6476679.06	2272424.21	8.00	0.00
				6476677.60	2272423.26	8.00	0.00
				6476676.00	2272422.57	8.00	0.00
				6476674.30	2272422.17	8.00	0.00
				6476672.56	2272422.08	8.00	0.00
				6476398.66	2272430.81	8.00	0.00
				6475359.30	2272428.64	8.00	0.00
				6475025.00	2272430.81	8.00	0.00
				6474245.87	2272443.83	8.00	0.00
				6474244.30	2272443.98	8.00	0.00
				6474243.54	2272444.14	8.00	0.00
				6474091.63	2272483.20	8.00	0.00
				6473855.09	2272543.97	8.00	0.00
				6473854.16	2272544.26	8.00	0.00
				6473853.62	2272544.47	8.00	0.00
				6473541.12	2272679.02	8.00	0.00
				6473540.85	2272679.14	8.00	0.00
				6473020.01	2272922.20	8.00	0.00
				6472844.22	2273004.67	8.00	0.00
				6472843.46	2273005.06	8.00	0.00
				6472842.44	2273005.74	8.00	0.00
				6472727.42	2273092.55	8.00	0.00
				6472727.02	2273092.87	8.00	0.00
				6472726.24	2273093.59	8.00	0.00
				6472559.49	2273266.84	8.00	0.00
				6472219.17	2273555.14	8.00	0.00
				6472218.11	2273556.18	8.00	0.00
				6472217.22	2273557.36	8.00	0.00
				6472216.52	2273558.66	8.00	0.00
				6472216.01	2273560.06	8.00	0.00
				6472215.71	2273561.51	8.00	0.00
				6472215.64	2273562.99	8.00	0.00
				6472221.92	2273847.68	8.00	0.00
				6472037.05	2273843.57	8.00	0.00
				6472035.47	2273843.66	8.00	0.00
				6472033.91	2273844.00	8.00	0.00
				6472032.43	2273844.59	8.00	0.00
				6472031.06	2273845.40	8.00	0.00
				6472029.84	2273846.42	8.00	0.00
				6472028.79	2273847.62	8.00	0.00
				6472027.95	2273848.97	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6472027.34	2273850.43	8.00	0.00
						6472026.96	2273851.98	8.00	0.00
						6472026.83	2273853.57	8.00	0.00
						6472026.83	2274244.26	8.00	0.00
						6472037.25	2274984.78	8.00	0.00
						6472037.43	2274986.51	8.00	0.00
						6472037.90	2274988.19	8.00	0.00
						6472038.65	2274989.75	8.00	0.00
						6472039.67	2274991.17	8.00	0.00
						6472040.91	2274992.38	8.00	0.00
						6472042.35	2274993.36	8.00	0.00
						6472043.94	2274994.08	8.00	0.00
						6472045.62	2274994.51	8.00	0.00
						6472047.35	2274994.64	8.00	0.00
						6472049.09	2274994.47	8.00	0.00
						6472050.76	2274994.01	8.00	0.00
						6472052.33	2274993.26	8.00	0.00
						6472053.75	2274992.25	8.00	0.00
						6472054.96	2274991.00	8.00	0.00
						6472055.95	2274989.57	8.00	0.00
						6472056.67	2274987.99	8.00	0.00
						6472057.11	2274986.31	8.00	0.00
						6472057.25	2274984.57	8.00	0.00
CA87	CA87	8.00	r			6472030.55	2272077.25	8.00	0.00
						6473608.38	2271703.84	8.00	0.00
						6473780.91	2272144.75	8.00	0.00
						6473914.47	2272539.81	8.00	0.00
						6473915.17	2272541.41	8.00	0.00
						6473916.13	2272542.86	8.00	0.00
						6473917.34	2272544.12	8.00	0.00
						6473918.74	2272545.15	8.00	0.00
						6473920.30	2272545.92	8.00	0.00
						6473921.98	2272546.41	8.00	0.00
						6473923.71	2272546.60	8.00	0.00
						6473925.45	2272546.49	8.00	0.00
						6473927.14	2272546.08	8.00	0.00
						6473928.74	2272545.38	8.00	0.00
						6473930.19	2272544.41	8.00	0.00
						6473931.45	2272543.21	8.00	0.00
						6473932.48	2272541.81	8.00	0.00
						6473933.25	2272540.24	8.00	0.00
						6473933.74	2272538.57	8.00	0.00
						6473933.94	2272536.84	8.00	0.00
						6473933.82	2272535.10	8.00	0.00
						6473933.41	2272533.40	8.00	0.00
						6473799.78	2272138.12	8.00	0.00
						6473799.70	2272137.91	8.00	0.00
						6473799.62	2272137.68	8.00	0.00
						6473623.84	2271688.46	8.00	0.00
						6473623.14	2271687.04	8.00	0.00
						6473622.23	2271685.74	8.00	0.00
						6473621.13	2271684.60	8.00	0.00
						6473619.85	2271683.65	8.00	0.00
						6473618.45	2271682.91	8.00	0.00
						6473616.94	2271682.41	8.00	0.00
						6473615.38	2271682.14	8.00	0.00
						6473613.79	2271682.14	8.00	0.00
						6473612.22	2271682.38	8.00	0.00
						6472025.75	2272057.83	8.00	0.00
						6470365.51	2272485.37	8.00	0.00
						6469237.40	2272773.91	8.00	0.00
						6468923.18	2272830.25	8.00	0.00
						6468092.04	2272962.63	8.00	0.00
						6468090.35	2272963.06	8.00	0.00
						6468088.77	2272963.78	8.00	0.00
						6468087.34	2272964.77	8.00	0.00
						6468086.10	2272965.99	8.00	0.00
						6468085.08	2272967.40	8.00	0.00
						6468084.33	2272968.97	8.00	0.00
						6468083.86	2272970.64	8.00	0.00
						6468083.69	2272972.37	8.00	0.00
						6468083.82	2272974.10	8.00	0.00
						6468084.25	2272975.79	8.00	0.00
						6468084.96	2272977.37	8.00	0.00
						6468085.94	2272978.81	8.00	0.00
						6468087.15	2272980.06	8.00	0.00
						6468088.56	2272981.08	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6468090.13	2272981.83	8.00	0.00
						6468091.80	2272982.31	8.00	0.00
						6468093.53	2272982.49	8.00	0.00
						6468095.26	2272982.37	8.00	0.00
						6468926.43	2272849.99	8.00	0.00
						6468926.60	2272849.96	8.00	0.00
						6469241.29	2272793.53	8.00	0.00
						6469242.00	2272793.38	8.00	0.00
						6470370.48	2272504.75	8.00	0.00
CA88	CA88	8.00	r			6470737.29	2273164.32	8.00	0.00
						6470329.31	2273149.13	8.00	0.00
						6470328.93	2273149.12	8.00	0.00
						6469302.54	2273149.12	8.00	0.00
						6468486.57	2273136.10	8.00	0.00
						6468485.69	2273136.13	8.00	0.00
						6468240.47	2273155.66	8.00	0.00
						6468239.44	2273155.80	8.00	0.00
						6467970.26	2273207.90	8.00	0.00
						6467969.79	2273208.00	8.00	0.00
						6467605.21	2273296.98	8.00	0.00
						6467603.64	2273297.50	8.00	0.00
						6467602.18	2273298.27	8.00	0.00
						6467600.87	2273299.28	8.00	0.00
						6467599.74	2273300.48	8.00	0.00
						6467598.83	2273301.86	8.00	0.00
						6467598.15	2273303.36	8.00	0.00
						6467597.73	2273304.96	8.00	0.00
						6467597.58	2273306.61	8.00	0.00
						6467597.70	2273308.25	8.00	0.00
						6467598.09	2273309.86	8.00	0.00
						6467598.74	2273311.37	8.00	0.00
						6467599.63	2273312.77	8.00	0.00
						6467600.74	2273313.99	8.00	0.00
						6467602.04	2273315.02	8.00	0.00
						6467603.48	2273315.81	8.00	0.00
						6467605.04	2273316.36	8.00	0.00
						6467606.67	2273316.65	8.00	0.00
						6467608.32	2273316.66	8.00	0.00
						6467609.95	2273316.41	8.00	0.00
						6467974.30	2273227.49	8.00	0.00
						6468242.61	2273175.56	8.00	0.00
						6468486.80	2273156.11	8.00	0.00
						6469302.38	2273169.12	8.00	0.00
						6470328.75	2273169.12	8.00	0.00
						6470736.05	2273184.29	8.00	0.00
						6471002.36	2273221.10	8.00	0.00
						6471242.05	2273259.96	8.00	0.00
						6471583.91	2273396.28	8.00	0.00
						6471585.49	2273396.76	8.00	0.00
						6471587.13	2273396.98	8.00	0.00
						6471588.78	2273396.92	8.00	0.00
						6471590.40	2273396.59	8.00	0.00
						6471591.94	2273396.00	8.00	0.00
						6471593.36	2273395.17	8.00	0.00
						6471594.63	2273394.11	8.00	0.00
						6471595.71	2273392.86	8.00	0.00
						6471596.56	2273391.45	8.00	0.00
						6471597.18	2273389.91	8.00	0.00
						6471597.53	2273388.30	8.00	0.00
						6471597.61	2273386.65	8.00	0.00
						6471597.42	2273385.01	8.00	0.00
						6471596.96	2273383.42	8.00	0.00
						6471596.24	2273381.93	8.00	0.00
						6471595.29	2273380.58	8.00	0.00
						6471594.13	2273379.40	8.00	0.00
						6471592.80	2273378.43	8.00	0.00
						6471591.32	2273377.70	8.00	0.00
						6471248.44	2273240.98	8.00	0.00
						6471248.15	2273240.87	8.00	0.00
						6471246.40	2273240.41	8.00	0.00
						6471005.45	2273201.33	8.00	0.00
						6471005.22	2273201.30	8.00	0.00
						6470738.29	2273164.41	8.00	0.00
CA89	CA89	8.00	r			6470369.73	2272485.21	8.00	0.00
						6470368.05	2272485.06	8.00	0.00
						6470366.38	2272485.19	8.00	0.00
						6470364.74	2272485.60	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6470363.20	2272486.28	8.00	0.00
						6470361.80	2272487.21	8.00	0.00
						6470360.57	2272488.37	8.00	0.00
						6470359.55	2272489.71	8.00	0.00
						6470358.77	2272491.20	8.00	0.00
						6470358.25	2272492.81	8.00	0.00
						6470358.01	2272494.47	8.00	0.00
						6470318.95	2273158.54	8.00	0.00
						6470318.93	2273159.22	8.00	0.00
						6470328.92	2273680.09	8.00	0.00
						6470338.46	2274854.08	8.00	0.00
						6470338.63	2274855.82	8.00	0.00
						6470339.09	2274857.49	8.00	0.00
						6470339.84	2274859.07	8.00	0.00
						6470340.85	2274860.48	8.00	0.00
						6470342.09	2274861.71	8.00	0.00
						6470343.52	2274862.69	8.00	0.00
						6470345.11	2274863.42	8.00	0.00
						6470346.79	2274863.86	8.00	0.00
						6470348.53	2274864.00	8.00	0.00
						6470350.26	2274863.84	8.00	0.00
						6470351.94	2274863.38	8.00	0.00
						6470353.51	2274862.63	8.00	0.00
						6470354.93	2274861.63	8.00	0.00
						6470356.16	2274860.39	8.00	0.00
						6470357.15	2274858.96	8.00	0.00
						6470357.88	2274857.38	8.00	0.00
						6470358.32	2274855.69	8.00	0.00
						6470358.46	2274853.96	8.00	0.00
						6470348.91	2273679.82	8.00	0.00
						6470338.94	2273159.32	8.00	0.00
						6470377.98	2272495.65	8.00	0.00
						6470377.94	2272494.03	8.00	0.00
						6470377.65	2272492.44	8.00	0.00
						6470377.10	2272490.93	8.00	0.00
						6470376.32	2272489.51	8.00	0.00
						6470375.32	2272488.25	8.00	0.00
						6470374.12	2272487.16	8.00	0.00
						6470372.77	2272486.27	8.00	0.00
						6470371.29	2272485.62	8.00	0.00
CA90	CA90	8.00	r			6472850.20	2273003.87	8.00	0.00
						6472848.59	2273003.72	8.00	0.00
						6472846.98	2273003.83	8.00	0.00
						6472845.40	2273004.20	8.00	0.00
						6472843.91	2273004.82	8.00	0.00
						6472842.53	2273005.67	8.00	0.00
						6472841.31	2273006.73	8.00	0.00
						6472840.28	2273007.98	8.00	0.00
						6472839.46	2273009.37	8.00	0.00
						6472838.88	2273010.88	8.00	0.00
						6472838.54	2273012.46	8.00	0.00
						6472821.18	2273149.18	8.00	0.00
						6472821.11	2273150.73	8.00	0.00
						6472821.27	2273152.27	8.00	0.00
						6472821.67	2273153.77	8.00	0.00
						6472822.30	2273155.18	8.00	0.00
						6472881.84	2273265.76	8.00	0.00
						6472877.53	2273653.82	8.00	0.00
						6472873.26	2274180.34	8.00	0.00
						6472618.02	2274190.80	8.00	0.00
						6472616.46	2274190.99	8.00	0.00
						6472614.95	2274191.42	8.00	0.00
						6472613.52	2274192.08	8.00	0.00
						6472612.21	2274192.95	8.00	0.00
						6472611.06	2274194.03	8.00	0.00
						6472610.09	2274195.26	8.00	0.00
						6472609.33	2274196.64	8.00	0.00
						6472608.79	2274198.12	8.00	0.00
						6472608.49	2274199.66	8.00	0.00
						6472574.70	2274497.44	8.00	0.00
						6472329.03	2274516.34	8.00	0.00
						6472327.40	2274516.60	8.00	0.00
						6472325.84	2274517.13	8.00	0.00
						6472324.38	2274517.91	8.00	0.00
						6472323.07	2274518.91	8.00	0.00
						6472321.95	2274520.12	8.00	0.00
						6472321.03	2274521.50	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6472320.36	2274523.01	8.00	0.00
						6472319.95	2274524.61	8.00	0.00
						6472319.80	2274526.25	8.00	0.00
						6472319.93	2274527.90	8.00	0.00
						6472320.32	2274529.50	8.00	0.00
						6472320.98	2274531.02	8.00	0.00
						6472321.87	2274532.41	8.00	0.00
						6472322.99	2274533.63	8.00	0.00
						6472324.28	2274534.65	8.00	0.00
						6472325.73	2274535.44	8.00	0.00
						6472327.29	2274535.99	8.00	0.00
						6472328.92	2274536.27	8.00	0.00
						6472330.57	2274536.28	8.00	0.00
						6472584.47	2274516.75	8.00	0.00
						6472586.18	2274516.47	8.00	0.00
						6472587.80	2274515.90	8.00	0.00
						6472589.31	2274515.06	8.00	0.00
						6472590.65	2274513.98	8.00	0.00
						6472591.78	2274512.68	8.00	0.00
						6472592.68	2274511.20	8.00	0.00
						6472593.30	2274509.60	8.00	0.00
						6472593.64	2274507.91	8.00	0.00
						6472627.40	2274210.43	8.00	0.00
						6472883.60	2274199.93	8.00	0.00
						6472885.27	2274199.72	8.00	0.00
						6472886.89	2274199.23	8.00	0.00
						6472888.40	2274198.47	8.00	0.00
						6472889.76	2274197.47	8.00	0.00
						6472890.93	2274196.26	8.00	0.00
						6472891.89	2274194.87	8.00	0.00
						6472892.59	2274193.33	8.00	0.00
						6472893.03	2274191.70	8.00	0.00
						6472893.19	2274190.02	8.00	0.00
						6472897.53	2273654.01	8.00	0.00
						6472901.87	2273263.34	8.00	0.00
						6472901.74	2273261.69	8.00	0.00
						6472901.34	2273260.07	8.00	0.00
						6472900.67	2273258.55	8.00	0.00
						6472841.43	2273148.52	8.00	0.00
						6472858.38	2273014.98	8.00	0.00
						6472858.46	2273013.29	8.00	0.00
						6472858.24	2273011.62	8.00	0.00
						6472857.75	2273010.00	8.00	0.00
						6472856.99	2273008.49	8.00	0.00
						6472855.99	2273007.13	8.00	0.00
						6472854.77	2273005.96	8.00	0.00
						6472853.37	2273005.01	8.00	0.00
						6472851.83	2273004.31	8.00	0.00
CA91	CA91	8.00	r			6472037.27	2271581.35	8.00	0.00
						6472035.55	2271581.20	8.00	0.00
						6472033.82	2271581.34	8.00	0.00
						6472032.15	2271581.78	8.00	0.00
						6472030.58	2271582.51	8.00	0.00
						6472029.16	2271583.49	8.00	0.00
						6472027.93	2271584.70	8.00	0.00
						6472026.92	2271586.10	8.00	0.00
						6472026.18	2271587.66	8.00	0.00
						6472025.71	2271589.32	8.00	0.00
						6472025.53	2271591.04	8.00	0.00
						6472018.15	2272067.47	8.00	0.00
						6472018.29	2272069.20	8.00	0.00
						6472018.73	2272070.88	8.00	0.00
						6472019.45	2272072.46	8.00	0.00
						6472020.43	2272073.90	8.00	0.00
						6472021.65	2272075.14	8.00	0.00
						6472023.06	2272076.15	8.00	0.00
						6472024.63	2272076.90	8.00	0.00
						6472026.31	2272077.37	8.00	0.00
						6472028.04	2272077.54	8.00	0.00
						6472029.77	2272077.41	8.00	0.00
						6472031.45	2272076.98	8.00	0.00
						6472033.04	2272076.27	8.00	0.00
						6472034.48	2272075.29	8.00	0.00
						6472035.72	2272074.08	8.00	0.00
						6472036.74	2272072.66	8.00	0.00
						6472037.50	2272071.10	8.00	0.00
						6472037.97	2272069.43	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6472038.15	2272067.70	8.00	0.00
						6472045.53	2271591.27	8.00	0.00
						6472045.42	2271589.72	8.00	0.00
						6472045.07	2271588.20	8.00	0.00
						6472044.49	2271586.76	8.00	0.00
						6472043.69	2271585.42	8.00	0.00
						6472042.69	2271584.22	8.00	0.00
						6472041.52	2271583.19	8.00	0.00
						6472040.21	2271582.36	8.00	0.00
						6472038.78	2271581.74	8.00	0.00
CA92	CA92	8.00	r			6492601.03	2290593.02	8.00	0.00
						6492283.32	2290593.02	8.00	0.00
						6492281.59	2290593.17	8.00	0.00
						6492279.90	2290593.62	8.00	0.00
						6492278.32	2290594.36	8.00	0.00
						6492276.90	2290595.36	8.00	0.00
						6492275.66	2290596.59	8.00	0.00
						6492274.66	2290598.02	8.00	0.00
						6492273.93	2290599.60	8.00	0.00
						6492273.48	2290601.28	8.00	0.00
						6492273.32	2290603.02	8.00	0.00
						6492273.48	2290604.76	8.00	0.00
						6492273.93	2290606.44	8.00	0.00
						6492274.66	2290608.02	8.00	0.00
						6492275.66	2290609.45	8.00	0.00
						6492276.90	2290610.68	8.00	0.00
						6492278.32	2290611.68	8.00	0.00
						6492279.90	2290612.42	8.00	0.00
						6492281.59	2290612.87	8.00	0.00
						6492283.32	2290613.02	8.00	0.00
						6492601.03	2290613.02	8.00	0.00
						6492602.77	2290612.87	8.00	0.00
						6492604.45	2290612.42	8.00	0.00
						6492606.03	2290611.68	8.00	0.00
						6492607.46	2290610.68	8.00	0.00
						6492608.69	2290609.45	8.00	0.00
						6492609.69	2290608.02	8.00	0.00
						6492610.43	2290606.44	8.00	0.00
						6492610.88	2290604.76	8.00	0.00
						6492611.03	2290603.02	8.00	0.00
						6492610.88	2290601.28	8.00	0.00
						6492610.43	2290599.60	8.00	0.00
						6492609.69	2290598.02	8.00	0.00
						6492608.69	2290596.59	8.00	0.00
						6492607.46	2290595.36	8.00	0.00
						6492606.03	2290594.36	8.00	0.00
						6492604.45	2290593.62	8.00	0.00
						6492602.77	2290593.17	8.00	0.00
CA93	CA93	8.00	r			6491872.00	2288990.78	8.00	0.00
						6491870.31	2288990.63	8.00	0.00
						6491868.62	2288990.77	8.00	0.00
						6491866.98	2288991.19	8.00	0.00
						6491865.43	2288991.88	8.00	0.00
						6491864.02	2288992.82	8.00	0.00
						6491862.79	2288993.99	8.00	0.00
						6491861.77	2288995.35	8.00	0.00
						6491861.00	2288996.87	8.00	0.00
						6491860.50	2288998.49	8.00	0.00
						6491860.28	2289000.17	8.00	0.00
						6491860.34	2289001.87	8.00	0.00
						6491860.69	2289003.53	8.00	0.00
						6491861.32	2289005.10	8.00	0.00
						6491869.04	2289020.54	8.00	0.00
						6491873.16	2289063.78	8.00	0.00
						6491873.16	2289205.73	8.00	0.00
						6491875.76	2289400.21	8.00	0.00
						6491879.20	2290017.07	8.00	0.00
						6491782.52	2290062.95	8.00	0.00
						6491781.80	2290063.33	8.00	0.00
						6491780.52	2290064.21	8.00	0.00
						6491698.85	2290130.24	8.00	0.00
						6491697.61	2290131.46	8.00	0.00
						6491696.60	2290132.87	8.00	0.00
						6491695.85	2290134.44	8.00	0.00
						6491695.38	2290136.11	8.00	0.00
						6491695.21	2290137.84	8.00	0.00
						6491695.34	2290139.57	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6491695.77	2290141.26	8.00	0.00
						6491696.48	2290142.84	8.00	0.00
						6491697.46	2290144.28	8.00	0.00
						6491698.67	2290145.53	8.00	0.00
						6491700.08	2290146.54	8.00	0.00
						6491701.64	2290147.30	8.00	0.00
						6491703.31	2290147.78	8.00	0.00
						6491705.04	2290147.96	8.00	0.00
						6491706.78	2290147.83	8.00	0.00
						6491708.46	2290147.41	8.00	0.00
						6491710.05	2290146.71	8.00	0.00
						6491711.49	2290145.73	8.00	0.00
						6491792.16	2290080.51	8.00	0.00
						6491893.52	2290032.41	8.00	0.00
						6491894.92	2290031.60	8.00	0.00
						6491896.17	2290030.58	8.00	0.00
						6491897.24	2290029.37	8.00	0.00
						6491898.10	2290028.01	8.00	0.00
						6491898.73	2290026.52	8.00	0.00
						6491899.11	2290024.95	8.00	0.00
						6491899.23	2290023.35	8.00	0.00
						6491895.76	2289400.02	8.00	0.00
						6491893.16	2289205.60	8.00	0.00
						6491893.16	2289063.31	8.00	0.00
						6491893.11	2289062.36	8.00	0.00
						6491888.77	2289016.78	8.00	0.00
						6491888.58	2289015.57	8.00	0.00
						6491888.24	2289014.39	8.00	0.00
						6491887.76	2289013.26	8.00	0.00
						6491879.21	2288996.16	8.00	0.00
						6491878.41	2288994.83	8.00	0.00
						6491877.41	2288993.64	8.00	0.00
						6491876.24	2288992.61	8.00	0.00
						6491874.93	2288991.79	8.00	0.00
						6491873.51	2288991.17	8.00	0.00
CA94	CA94	8.00	r			6495665.06	2291888.58	8.00	0.00
						6495663.56	2291888.43	8.00	0.00
						6495662.05	2291888.51	8.00	0.00
						6495660.57	2291888.82	8.00	0.00
						6495659.15	2291889.34	8.00	0.00
						6495492.29	2291966.01	8.00	0.00
						6495490.85	2291966.82	8.00	0.00
						6495489.57	2291967.86	8.00	0.00
						6495488.47	2291969.09	8.00	0.00
						6495487.59	2291970.49	8.00	0.00
						6495486.95	2291972.01	8.00	0.00
						6495486.58	2291973.62	8.00	0.00
						6495486.47	2291975.27	8.00	0.00
						6495486.63	2291976.91	8.00	0.00
						6495487.07	2291978.51	8.00	0.00
						6495487.76	2291980.01	8.00	0.00
						6495488.68	2291981.37	8.00	0.00
						6495489.82	2291982.57	8.00	0.00
						6495491.14	2291983.56	8.00	0.00
						6495492.61	2291984.32	8.00	0.00
						6495494.18	2291984.83	8.00	0.00
						6495495.81	2291985.07	8.00	0.00
						6495497.47	2291985.05	8.00	0.00
						6495499.09	2291984.75	8.00	0.00
						6495500.64	2291984.18	8.00	0.00
						6495667.50	2291907.52	8.00	0.00
						6495668.97	2291906.69	8.00	0.00
						6495670.28	2291905.62	8.00	0.00
						6495671.39	2291904.35	8.00	0.00
						6495672.27	2291902.90	8.00	0.00
						6495672.90	2291901.33	8.00	0.00
						6495673.25	2291899.68	8.00	0.00
						6495673.32	2291898.00	8.00	0.00
						6495673.10	2291896.32	8.00	0.00
						6495672.61	2291894.71	8.00	0.00
						6495671.85	2291893.20	8.00	0.00
						6495670.85	2291891.84	8.00	0.00
						6495669.63	2291890.67	8.00	0.00
						6495668.23	2291889.72	8.00	0.00
						6495666.70	2291889.02	8.00	0.00
CA95	CA95	8.00	r			6484798.90	2297548.81	8.00	0.00
						6484797.18	2297548.66	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6484795.47	2297548.80	8.00	0.00
						6484793.80	2297549.24	8.00	0.00
						6484792.24	2297549.95	8.00	0.00
						6484790.82	2297550.93	8.00	0.00
						6484789.59	2297552.13	8.00	0.00
						6484788.58	2297553.52	8.00	0.00
						6484787.83	2297555.07	8.00	0.00
						6484787.35	2297556.72	8.00	0.00
						6484787.16	2297558.43	8.00	0.00
						6484779.92	2297873.62	8.00	0.00
						6484780.03	2297875.36	8.00	0.00
						6484780.45	2297877.06	8.00	0.00
						6484781.15	2297878.65	8.00	0.00
						6484782.11	2297880.10	8.00	0.00
						6484783.32	2297881.36	8.00	0.00
						6484784.72	2297882.39	8.00	0.00
						6484786.29	2297883.17	8.00	0.00
						6484787.96	2297883.66	8.00	0.00
						6484789.69	2297883.85	8.00	0.00
						6484791.43	2297883.74	8.00	0.00
						6484793.12	2297883.32	8.00	0.00
						6484794.72	2297882.62	8.00	0.00
						6484796.17	2297881.66	8.00	0.00
						6484797.43	2297880.45	8.00	0.00
						6484798.46	2297879.05	8.00	0.00
						6484799.24	2297877.49	8.00	0.00
						6484799.73	2297875.81	8.00	0.00
						6484799.92	2297874.08	8.00	0.00
						6484807.16	2297558.89	8.00	0.00
						6484807.07	2297557.32	8.00	0.00
						6484806.74	2297555.78	8.00	0.00
						6484806.16	2297554.31	8.00	0.00
						6484805.37	2297552.95	8.00	0.00
						6484804.37	2297551.73	8.00	0.00
						6484803.19	2297550.68	8.00	0.00
						6484801.87	2297549.84	8.00	0.00
						6484800.42	2297549.21	8.00	0.00
CA96	CA96	8.00	r			6485427.28	2297881.47	8.00	0.00
						6485425.54	2297881.32	8.00	0.00
						6485425.30	2297881.32	8.00	0.00
						6484369.60	2297906.32	8.00	0.00
						6484367.96	2297906.49	8.00	0.00
						6484366.36	2297906.93	8.00	0.00
						6484364.87	2297907.63	8.00	0.00
						6484363.51	2297908.57	8.00	0.00
						6484362.32	2297909.72	8.00	0.00
						6484361.34	2297911.04	8.00	0.00
						6484360.58	2297912.51	8.00	0.00
						6484360.09	2297914.09	8.00	0.00
						6484359.85	2297915.72	8.00	0.00
						6484359.89	2297917.37	8.00	0.00
						6484360.20	2297919.00	8.00	0.00
						6484360.77	2297920.54	8.00	0.00
						6484361.59	2297921.98	8.00	0.00
						6484362.64	2297923.26	8.00	0.00
						6484363.88	2297924.35	8.00	0.00
						6484365.28	2297925.22	8.00	0.00
						6484366.81	2297925.84	8.00	0.00
						6484368.42	2297926.21	8.00	0.00
						6484370.07	2297926.31	8.00	0.00
						6485425.78	2297901.31	8.00	0.00
						6485427.49	2297901.12	8.00	0.00
						6485429.15	2297900.64	8.00	0.00
						6485430.71	2297899.88	8.00	0.00
						6485432.10	2297898.86	8.00	0.00
						6485433.31	2297897.62	8.00	0.00
						6485434.27	2297896.18	8.00	0.00
						6485434.98	2297894.61	8.00	0.00
						6485435.41	2297892.93	8.00	0.00
						6485435.54	2297891.21	8.00	0.00
						6485435.37	2297889.48	8.00	0.00
						6485434.91	2297887.82	8.00	0.00
						6485434.16	2297886.26	8.00	0.00
						6485433.16	2297884.85	8.00	0.00
						6485431.93	2297883.63	8.00	0.00
						6485430.51	2297882.64	8.00	0.00
						6485428.95	2297881.92	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
CA97	CA97	8.00	r			6485419.50	2298204.51	8.00	0.00
						6485417.74	2298204.36	8.00	0.00
						6484517.21	2298209.05	8.00	0.00
						6484515.48	2298209.21	8.00	0.00
						6484513.80	2298209.67	8.00	0.00
						6484512.22	2298210.41	8.00	0.00
						6484510.80	2298211.42	8.00	0.00
						6484509.57	2298212.66	8.00	0.00
						6484508.58	2298214.09	8.00	0.00
						6484507.85	2298215.67	8.00	0.00
						6484507.41	2298217.35	8.00	0.00
						6484507.26	2298219.09	8.00	0.00
						6484507.42	2298220.82	8.00	0.00
						6484507.88	2298222.50	8.00	0.00
						6484508.62	2298224.08	8.00	0.00
						6484509.62	2298225.50	8.00	0.00
						6484510.86	2298226.73	8.00	0.00
						6484512.29	2298227.73	8.00	0.00
						6484513.87	2298228.46	8.00	0.00
						6484515.55	2298228.90	8.00	0.00
						6484517.29	2298229.05	8.00	0.00
						6485417.82	2298224.36	8.00	0.00
						6485419.55	2298224.20	8.00	0.00
						6485421.23	2298223.74	8.00	0.00
						6485422.80	2298223.00	8.00	0.00
						6485424.22	2298221.99	8.00	0.00
						6485425.45	2298220.76	8.00	0.00
						6485426.44	2298219.33	8.00	0.00
						6485427.17	2298217.75	8.00	0.00
						6485427.62	2298216.07	8.00	0.00
						6485427.77	2298214.34	8.00	0.00
						6485427.61	2298212.60	8.00	0.00
						6485427.16	2298210.92	8.00	0.00
						6485426.42	2298209.35	8.00	0.00
						6485425.42	2298207.92	8.00	0.00
						6485424.19	2298206.69	8.00	0.00
						6485422.76	2298205.70	8.00	0.00
						6485421.18	2298204.96	8.00	0.00

Building(s)

Name	Sel.	M.	ID	RB	Residents	Absorption	Height	Coordinates			
							Begin	x	y	z	Ground
							(ft)	(ft)	(ft)	(ft)	(ft)

APPENDIX 8.2:

NIGHTTIME CONSTRUCTION NOISE CALCULATIONS

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14726 - Beech Logistics Center

CadnaA Noise Prediction Model: 16694-02_Construction_Nighttime_Alt.cna
Date: 25.01.26
Analyst: B. Lawson

Calculation Configuration

Configuration	
Parameter	**Value**
General	
Max. Error (dB)	**0.00**
Max. Search Radius (ft)	**6561.70**
Min. Dist Src to Rcvr	**0.00**
Partition	
Raster Factor	**0.50**
Max. Length of Section (ft)	**3280.80**
Min. Length of Section (ft)	**3.30**
Min. Length of Section (%)	**0.00**
Proj. Line Sources	**On**
Proj. Area Sources	**On**
Ref. Time	
Daytime Penalty (dB)	**0.00**
Recr. Time Penalty (dB)	**5.00**
Night-time Penalty (dB)	**10.00**
DTM	
Standard Height (m)	**0.00**
Model of Terrain	**Triangulation**
Reflection	
max. Order of Reflection	**2**
Search Radius Src	**328.08**
Search Radius Rcvr	**328.08**
Max. Distance Source - Rcvr	**3280.84 3280.84**
Min. Distance Rvcr - Reflector	**3.28 3.28**
Min. Distance Source - Reflector	**0.33**
Industrial (ISO 9613 (1996))	
Lateral Diffraction	**some Obj**
Obst. within Area Src do not shield	**On**
Screening	**Incl. Ground Att. over Barrier**
	Dz with limit (20/25)
Barrier Coefficients C1,2,3	**3.0 20.0 0.0**
Temperature (°F)	**50**
rel. Humidity (%)	**70**
Ground Absorption G	**0.66**
Wind Speed for Dir. (mph)	**6.7**
Roads (TNM)	
Railways (FTA/FRA)	
Aircraft (???)	
Strictly acc. to AzB	

Receiver Noise Levels

Name	M.	ID	Level Lr			Limit. Value			Land Use			Height		Coordinates		
			Day	Night	CNEL	Day	Night	CNEL	Type	Auto	Noise Type			X	Y	Z
			(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)				(ft)		(ft)	(ft)	(ft)
R01		R01	44.2	-55.8	41.2	0.0	0.0	0.0		x	Total	5.00	r	6474196.57	2301374.52	5.00
R02		R02	48.6	-51.4	45.6	0.0	0.0	0.0		x	Total	5.00	r	6475288.01	2299423.50	5.00
R03		R03	50.3	-49.7	47.3	0.0	0.0	0.0		x	Total	5.00	r	6476914.82	2300761.88	5.00
R04		R04	53.2	-46.8	50.2	0.0	0.0	0.0		x	Total	5.00	r	6484675.45	2297947.26	5.00
R05		R05	50.8	-49.2	47.8	0.0	0.0	0.0		x	Total	5.00	r	6484925.58	2298587.09	5.00
R06		R06	54.4	-45.6	51.4	0.0	0.0	0.0		x	Total	5.00	r	6488391.53	2292546.90	5.00
R07		R07	51.3	-48.7	48.3	0.0	0.0	0.0		x	Total	5.00	r	6489478.85	2291979.80	5.00
R08		R08	50.4	-49.6	47.3	0.0	0.0	0.0		x	Total	5.00	r	6491982.53	2291790.94	5.00
R09		R09	51.5	-48.5	48.4	0.0	0.0	0.0		x	Total	5.00	r	6491601.42	2288350.15	5.00
R10		R10	50.2	-49.8	47.2	0.0	0.0	0.0		x	Total	5.00	r	6491428.52	2290203.13	5.00
R11		R11	48.1	-51.9	45.1	0.0	0.0	0.0		x	Total	5.00	r	6492508.70	2291774.64	5.00
R12		R12	48.9	-51.1	45.9	0.0	0.0	0.0		x	Total	5.00	r	6492533.41	2289350.26	5.00
R13		R13	51.1	-48.9	48.1	0.0	0.0	0.0		x	Total	5.00	r	6494639.33	2289822.79	5.00
R14		R14	48.9	-51.1	45.9	0.0	0.0	0.0		x	Total	5.00	r	6493691.88	2293132.70	5.00
R15		R15	49.6	-50.4	46.6	0.0	0.0	0.0		x	Total	5.00	r	6494601.55	2292223.27	5.00
R16		R16	50.1	-49.9	47.1	0.0	0.0	0.0		x	Total	5.00	r	6495460.54	2293096.61	5.00
R17		R17	49.1	-50.9	46.1	0.0	0.0	0.0		x	Total	5.00	r	6496267.83	2292190.36	5.00
R18		R18	51.1	-48.9	48.1	0.0	0.0	0.0		x	Total	5.00	r	6495868.70	2291084.57	5.00
R19		R19	25.5	-73.5	22.5	0.0	0.0	0.0		x	Total	5.00	r	6472586.96	2277725.59	5.00
R20		R20	24.2	-74.5	21.2	0.0	0.0	0.0		x	Total	5.00	r	6471902.30	2278313.77	5.00

Point Source(s)

Name	M.	ID	Result. PWL			Lw / Li			Operating Time			Height		Coordinates		
			Day	Evening	Night	Type	Value	norm.	Day	Special	Night			X	Y	Z
			(dBA)	(dBA)	(dBA)			dB(A)	(min)	(min)	(min)	(ft)		(ft)	(ft)	(ft)

Line Source(s)

Name	M.	ID	Result. PWL			Result. PWL'			Lw / Li			Operating Time			Moving Pt. Src				Height
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Special	Night	Number			Speed	
			(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)			dB(A)	(min)	(min)	(min)	Day	Evening	Night	(mph)	(ft)

Name	ID	Height		Coordinates			
		Begin	End	x	y	z	Ground
		(ft)	(ft)	(ft)	(ft)	(ft)	(ft)

Area Source(s)

Name	M.	ID	Result. PWL			Result. PWL''			Lw / Li			Work Crews				Operating Time			Height	
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Qantity			Speed	Day	Special	Night	(ft)	
			(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)			dB(A)	Daytime	Evening	Nighttime	(mph)	(min)	(min)	(min)		
CA01		CA01	95.3	-4.7	-4.7	59.9	-40.1	-40.1	PWL-Pt	95.3		1.0	0.0	0.0	2				8	r
CA02		CA02	95.3	-4.7	-4.7	56.7	-43.3	-43.3	PWL-Pt	95.3		1.0	0.0	0.0	2				8	r
CA05		CA05	95.3	-4.7	-4.7	71.7	-28.3	-28.3	PWL-Pt	95.3		1.0	0.0	0.0	2				8	r
CA06		CA06	95.3	-4.7	-4.7	70.6	-29.4	-29.4	PWL-Pt	95.3		1.0	0.0	0.0	2				8	r
CA07		CA07	95.3	-4.7	-4.7	67.8	-32.2	-32.2	PWL-Pt	95.3		1.0	0.0	0.0	2				8	r
CA08		CA08	95.3	-4.7	-4.7	68.5	-31.5	-31.5	PWL-Pt	95.3		1.0	0.0	0.0	2				8	r
CA09		CA09	95.3	-4.7	-4.7	68.8	-31.2	-31.2	PWL-Pt	95.3		1.0	0.0	0.0	2				8	r
CA10		CA10	95.3	-4.7	-4.7	69.3	-30.7	-30.7	PWL-Pt	95.3		1.0	0.0	0.0	2				8	r
CA11		CA11	95.3	-4.7	-4.7	61.2	-38.8	-38.8	PWL-Pt	95.3		1.0	0.0	0.0	2				8	r
CA12		CA12	95.3	-4.7	-4.7	71.1	-28.9	-28.9	PWL-Pt	95.3		1.0	0.0	0.0	2				8	r
CA13		CA13	95.3	-4.7	-4.7	70.3	-29.7	-29.7	PWL-Pt	95.3		1.0	0.0	0.0	2				8	r
CA15		CA15	95.3	-4.7	-4.7	65.7	-34.3	-34.3	PWL-Pt	95.3		1.0	0.0	0.0	2				8	r
CA16		CA16	95.3	-4.7	-4.7	71.4	-28.6	-28.6	PWL-Pt	95.3		1.0	0.0	0.0	2				8	r
CA17		CA17	95.3	-4.7	-4.7	70.3	-29.7	-29.7	PWL-Pt	95.3		1.0	0.0	0.0	2				8	r
CA18		CA18	95.3	-4.7	-4.7	65.7	-34.3	-34.3	PWL-Pt	95.3		1.0	0.0	0.0	2				8	r
CA19		CA19	95.3	-4.7	-4.7	70.7	-29.3	-29.3	PWL-Pt	95.3		1.0	0.0	0.0	2				8	r
CA21		CA21	95.3	-4.7	-4.7	53.2	-46.8	-46.8	PWL-Pt	95.3		1.0	0.0	0.0	2				8	r
CA23		CA23	95.3	-4.7	-4.7	64.0	-36.0	-36.0	PWL-Pt	95.3		1.0	0.0	0.0	2				8	r
CA24		CA24	95.3	-4.7	-4.7	58.3	-41.7	-41.7	PWL-Pt	95.3		1.0	0.0	0.0	2				8	r
CA32		CA32	95.3	-4.7	-4.7	68.8	-31.2	-31.2	PWL-Pt	95.3		1.0	0.0	0.0	2				8	r
CA33		CA33	95.3	-4.7	-4.7	69.0	-31.0	-31.0	PWL-Pt	95.3		1.0	0.0	0.0	2				8	r
CA34		CA34	95.3	-4.7	-4.7	69.3	-30.7	-30.7	PWL-Pt	95.3		1.0	0.0	0.0	2				8	r
CA35		CA35	95.3	-4.7	-4.7	69.4	-30.6	-30.6	PWL-Pt	95.3		1.0	0.0	0.0	2				8	r
CA36		CA36	95.3	-4.7	-4.7	60.0	-40.0	-40.0	PWL-Pt	95.3		1.0	0.0	0.0	2				8	r
CA37		CA37	95.3	-4.7	-4.7	65.0	-35.0	-35.0	PWL-Pt	95.3		1.0	0.0	0.0	2				8	r
CA41		CA41	95.3	-4.7	-4.7	59.6	-40.4	-40.4	PWL-Pt	95.3		1.0	0.0	0.0	2				8	r
CA44		CA44	95.3	-4.7	-4.7	60.7	-39.3	-39.3	PWL-Pt	95.3		1.0	0.0	0.0	2				8	r
CA48		CA48	95.3	-4.7	-4.7	60.6	-39.4	-39.4	PWL-Pt	95.3		1.0	0.0	0.0	2				8	r
CA51		CA51	95.3	-4.7	-4.7	61.4	-38.6	-38.6	PWL-Pt	95.3		1.0	0.0	0.0	2				8	r
CA55		CA55	95.3	-4.7	-4.7	59.6	-40.4	-40.4	PWL-Pt	95.3		1.0	0.0	0.0	2				8	r
CA58		CA58	95.3	-4.7	-4.7	69.2	-30.8	-30.8	PWL-Pt	95.3		1.0	0.0	0.0	2				8	r
CA61		CA61	95.3	-4.7	-4.7	66.8	-33.2	-33.2	PWL-Pt	95.3		1.0	0.0	0.0	2				8	r
CA63		CA63	95.3	-4.7	-4.7	59.6	-40.4	-40.4	PWL-Pt	95.3		1.0	0.0	0.0	2				8	r
CA66		CA66	95.3	-4.7	-4.7	70.4	-29.6	-29.6	PWL-Pt	95.3		1.0	0.0	0.0	2				8	r
CA67		CA67	95.3	-4.7	-4.7	59.4	-40.6	-40.6	PWL-Pt	95.3		1.0	0.0	0.0	2				8	r
CA70		CA70	95.3	-4.7	-4.7	60.2	-39.8	-39.8	PWL-Pt	95.3		1.0	0.0	0.0	2				8	r
CA74		CA74	95.3	-4.7	-4.7	61.8	-38.2	-38.2	PWL-Pt	95.3		1.0	0.0	0.0	2				8	r
CA76		CA76	95.3	-4.7	-4.7	59.9	-40.1	-40.1	PWL-Pt	95.3		1.0	0.0	0.0	2				8	r
CA77		CA77	95.3	-4.7	-4.7	57.0	-43.0	-43.0	PWL-Pt	95.3		1.0	0.0	0.0	2				8	r
CA80		CA80	95.3	-4.7	-4.7	73.2	-26.8	-26.8	PWL-Pt	95.3		1.0	0.0	0.0	2				8	r
CA81		CA81	95.3	-4.7	-4.7	72.8	-27.2	-27.2	PWL-Pt	95.3		1.0	0.0	0.0	2				8	r
CA83		CA83	95.3	-4.7	-4.7	61.8	-38.2	-38.2	PWL-Pt	95.3		1.0	0.0	0.0	2				8	r
CA85		CA85	95.3	-4.7	-4.7	52.1	-47.9	-47.9	PWL-Pt	95.3		1.0	0.0	0.0	2				8	r
CA86		CA86	95.3	-4.7	-4.7	54.5	-45.5	-45.5	PWL-Pt	95.3		1.0	0.0	0.0	2				8	r
CA87		CA87	95.3	-4.7	-4.7	54.4	-45.6	-45.6	PWL-Pt	95.3		1.0	0.0	0.0	2				8	r
CA88		CA88	95.3	-4.7	-4.7	56.5	-43.5	-43.5	PWL-Pt	95.3		1.0	0.0	0.0	2				8	r
CA89		CA89	95.3	-4.7	-4.7	58.9	-41.1	-41.1	PWL-Pt	95.3		1.0	0.0	0.0	2				8	r
CA90		CA90	95.3	-4.7	-4.7	59.5	-40.5	-40.5	PWL-Pt	95.3		1.0	0.0	0.0	2				8	r
CA91		CA91	95.3	-4.7	-4.7	65.7	-34.3	-34.3	PWL-Pt	95.3		1.0	0.0	0.0	2				8	r
CA92		CA92	95.3	-4.7	-4.7	67.4	-32.6	-32.6	PWL-Pt	95.3		1.0	0.0	0.0	2				8	r
CA94		CA94	95.3	-4.7	-4.7	69.6	-30.4	-30.4	PWL-Pt	95.3		1.0	0.0	0.0	2				8	r
CA96		CA96	95.3	-4.7	-4.7	62.3	-37.7	-37.7	PWL-Pt	95.3		1.0	0.0	0.0	2				8	r

Name	ID	Height		Coordinates			
		Begin	End	x	y	z	Ground
		(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
CA01	CA01	8.00 r		6475646.59	2302648.59	8.00	0.00
				6475985.96	2302613.85	8.00	0.00
				6476332.08	2302618.78	8.00	0.00
				6476332.40	2302618.78	8.00	0.00
				6476652.71	2302610.97	8.00	0.00
				6476654.03	2302610.85	8.00	0.00
				6476801.64	2302587.54	8.00	0.00
				6477511.06	2302595.34	8.00	0.00
				6477512.80	2302595.20	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6477514.48	2302594.76	8.00	0.00
						6477516.06	2302594.04	8.00	0.00
						6477517.50	2302593.05	8.00	0.00
						6477518.73	2302591.82	8.00	0.00
						6477519.74	2302590.41	8.00	0.00
						6477520.49	2302588.83	8.00	0.00
						6477520.95	2302587.16	8.00	0.00
						6477521.12	2302585.43	8.00	0.00
						6477520.98	2302583.69	8.00	0.00
						6477520.55	2302582.01	8.00	0.00
						6477519.83	2302580.42	8.00	0.00
						6477518.84	2302578.99	8.00	0.00
						6477517.62	2302577.75	8.00	0.00
						6477516.21	2302576.73	8.00	0.00
						6477514.64	2302575.98	8.00	0.00
						6477512.96	2302575.51	8.00	0.00
						6477511.23	2302575.34	8.00	0.00
						6476800.96	2302567.53	8.00	0.00
						6476799.35	2302567.66	8.00	0.00
						6476651.56	2302590.99	8.00	0.00
						6476332.10	2302598.78	8.00	0.00
						6475985.59	2302593.84	8.00	0.00
						6475984.50	2302593.90	8.00	0.00
						6475644.56	2302628.70	8.00	0.00
						6475642.84	2302629.03	8.00	0.00
						6475641.22	2302629.65	8.00	0.00
						6475639.72	2302630.54	8.00	0.00
						6475638.40	2302631.68	8.00	0.00
						6475637.30	2302633.03	8.00	0.00
						6475636.45	2302634.55	8.00	0.00
						6475635.88	2302636.20	8.00	0.00
						6475635.60	2302637.92	8.00	0.00
						6475635.63	2302639.66	8.00	0.00
						6475635.95	2302641.38	8.00	0.00
						6475636.58	2302643.01	8.00	0.00
						6475637.47	2302644.50	8.00	0.00
						6475638.61	2302645.82	8.00	0.00
						6475639.96	2302646.92	8.00	0.00
						6475641.48	2302647.77	8.00	0.00
						6475643.13	2302648.34	8.00	0.00
						6475644.85	2302648.62	8.00	0.00
CA02	CA02	8.00	r			6476651.60	2298846.33	8.00	0.00
						6476650.00	2298846.18	8.00	0.00
						6476648.40	2298846.29	8.00	0.00
						6476646.83	2298846.65	8.00	0.00
						6476645.34	2298847.26	8.00	0.00
						6476643.97	2298848.10	8.00	0.00
						6476642.75	2298849.15	8.00	0.00
						6476641.72	2298850.38	8.00	0.00
						6476640.90	2298851.76	8.00	0.00
						6476640.30	2298853.25	8.00	0.00
						6476639.96	2298854.82	8.00	0.00
						6476639.87	2298856.42	8.00	0.00
						6476642.47	2298963.19	8.00	0.00
						6476642.49	2298963.62	8.00	0.00
						6476650.30	2299080.80	8.00	0.00
						6476650.53	2299082.37	8.00	0.00
						6476651.01	2299083.88	8.00	0.00
						6476651.71	2299085.30	8.00	0.00
						6476652.64	2299086.58	8.00	0.00
						6476653.75	2299087.71	8.00	0.00
						6476655.03	2299088.65	8.00	0.00
						6476656.43	2299089.37	8.00	0.00
						6476657.94	2299089.86	8.00	0.00
						6476791.69	2299122.06	8.00	0.00
						6476819.57	2299390.77	8.00	0.00
						6476832.53	2299683.61	8.00	0.00
						6476780.65	2299966.39	8.00	0.00
						6476780.49	2299968.16	8.00	0.00
						6476780.49	2300074.93	8.00	0.00
						6476780.57	2300076.17	8.00	0.00
						6476788.38	2300138.67	8.00	0.00
						6476788.45	2300139.17	8.00	0.00
						6476788.72	2300140.28	8.00	0.00
						6476817.36	2300236.63	8.00	0.00
						6476817.55	2300237.20	8.00	0.00
						6476859.08	2300351.41	8.00	0.00

Name	ID	Height		Coordinates			
		Begin	End	x	y	z	Ground
		(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
				6476892.70	2300472.96	8.00	0.00
				6476913.43	2300592.14	8.00	0.00
				6476947.24	2300821.03	8.00	0.00
				6476978.47	2301091.71	8.00	0.00
				6477012.33	2301380.78	8.00	0.00
				6477012.35	2301381.00	8.00	0.00
				6477053.99	2301680.23	8.00	0.00
				6477069.53	2301856.40	8.00	0.00
				6477064.38	2301974.98	8.00	0.00
				6477041.02	2302125.48	8.00	0.00
				6477040.91	2302127.01	8.00	0.00
				6477041.03	2302128.59	8.00	0.00
				6477051.46	2302193.78	8.00	0.00
				6477051.92	2302195.54	8.00	0.00
				6477052.04	2302195.83	8.00	0.00
				6477088.39	2302286.72	8.00	0.00
				6477152.88	2302477.61	8.00	0.00
				6477152.78	2302581.51	8.00	0.00
				6477152.93	2302583.24	8.00	0.00
				6477153.38	2302584.93	8.00	0.00
				6477154.12	2302586.51	8.00	0.00
				6477155.12	2302587.94	8.00	0.00
				6477156.35	2302589.17	8.00	0.00
				6477157.78	2302590.17	8.00	0.00
				6477159.36	2302590.91	8.00	0.00
				6477161.04	2302591.36	8.00	0.00
				6477162.78	2302591.51	8.00	0.00
				6477164.51	2302591.36	8.00	0.00
				6477166.20	2302590.91	8.00	0.00
				6477167.78	2302590.18	8.00	0.00
				6477169.20	2302589.18	8.00	0.00
				6477170.44	2302587.95	8.00	0.00
				6477171.44	2302586.52	8.00	0.00
				6477172.18	2302584.94	8.00	0.00
				6477172.63	2302583.26	8.00	0.00
				6477172.78	2302581.52	8.00	0.00
				6477172.88	2302475.98	8.00	0.00
				6477172.73	2302474.23	8.00	0.00
				6477172.36	2302472.77	8.00	0.00
				6477107.25	2302280.06	8.00	0.00
				6477107.18	2302279.84	8.00	0.00
				6477107.06	2302279.55	8.00	0.00
				6477071.02	2302189.44	8.00	0.00
				6477061.03	2302126.99	8.00	0.00
				6477084.22	2301977.50	8.00	0.00
				6477084.33	2301976.41	8.00	0.00
				6477089.54	2301856.61	8.00	0.00
				6477089.55	2301856.18	8.00	0.00
				6477089.51	2301855.30	8.00	0.00
				6477073.89	2301678.22	8.00	0.00
				6477073.83	2301677.72	8.00	0.00
				6477032.18	2301378.35	8.00	0.00
				6476998.34	2301089.40	8.00	0.00
				6476967.09	2300818.58	8.00	0.00
				6476967.05	2300818.26	8.00	0.00
				6476933.19	2300589.09	8.00	0.00
				6476933.15	2300588.84	8.00	0.00
				6476912.32	2300469.04	8.00	0.00
				6476912.11	2300468.10	8.00	0.00
				6476878.25	2300345.70	8.00	0.00
				6476878.01	2300344.95	8.00	0.00
				6476836.45	2300230.65	8.00	0.00
				6476808.12	2300135.37	8.00	0.00
				6476800.49	2300074.31	8.00	0.00
				6476800.49	2299969.07	8.00	0.00
				6476852.41	2299686.08	8.00	0.00
				6476852.57	2299684.30	8.00	0.00
				6476852.56	2299683.86	8.00	0.00
				6476839.54	2299389.59	8.00	0.00
				6476839.50	2299389.00	8.00	0.00
				6476810.85	2299112.96	8.00	0.00
				6476810.58	2299111.45	8.00	0.00
				6476810.07	2299110.00	8.00	0.00
				6476809.35	2299108.64	8.00	0.00
				6476808.43	2299107.41	8.00	0.00
				6476807.33	2299106.33	8.00	0.00
				6476806.08	2299105.44	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6476804.71	2299104.74	8.00	0.00
						6476803.25	2299104.27	8.00	0.00
						6476669.77	2299072.14	8.00	0.00
						6476662.46	2298962.50	8.00	0.00
						6476659.86	2298855.94	8.00	0.00
						6476659.67	2298854.23	8.00	0.00
						6476659.20	2298852.59	8.00	0.00
						6476658.45	2298851.05	8.00	0.00
						6476657.44	2298849.66	8.00	0.00
						6476656.22	2298848.46	8.00	0.00
						6476654.81	2298847.49	8.00	0.00
						6476653.25	2298846.77	8.00	0.00
CA05	CA05	8.00	r			6477323.47	2300778.62	8.00	0.00
						6477321.74	2300778.47	8.00	0.00
						6477320.77	2300778.52	8.00	0.00
						6477214.00	2300788.94	8.00	0.00
						6477212.28	2300789.26	8.00	0.00
						6477210.65	2300789.87	8.00	0.00
						6477209.15	2300790.75	8.00	0.00
						6477207.83	2300791.89	8.00	0.00
						6477206.72	2300793.23	8.00	0.00
						6477205.86	2300794.75	8.00	0.00
						6477205.28	2300796.40	8.00	0.00
						6477205.00	2300798.12	8.00	0.00
						6477205.01	2300799.86	8.00	0.00
						6477205.33	2300801.57	8.00	0.00
						6477205.95	2300803.20	8.00	0.00
						6477206.83	2300804.71	8.00	0.00
						6477207.97	2300806.03	8.00	0.00
						6477209.31	2300807.14	8.00	0.00
						6477210.83	2300807.99	8.00	0.00
						6477212.48	2300808.57	8.00	0.00
						6477214.20	2300808.86	8.00	0.00
						6477215.94	2300808.84	8.00	0.00
						6477322.71	2300798.42	8.00	0.00
						6477324.37	2300798.12	8.00	0.00
						6477325.95	2300797.54	8.00	0.00
						6477327.42	2300796.70	8.00	0.00
						6477328.72	2300795.63	8.00	0.00
						6477329.82	2300794.36	8.00	0.00
						6477330.70	2300792.92	8.00	0.00
						6477331.32	2300791.35	8.00	0.00
						6477331.66	2300789.70	8.00	0.00
						6477331.73	2300788.01	8.00	0.00
						6477331.51	2300786.34	8.00	0.00
						6477331.01	2300784.73	8.00	0.00
						6477330.25	2300783.23	8.00	0.00
						6477329.25	2300781.87	8.00	0.00
						6477328.03	2300780.70	8.00	0.00
						6477326.64	2300779.75	8.00	0.00
						6477325.10	2300779.06	8.00	0.00
CA06	CA06	8.00	r			6477328.68	2300479.14	8.00	0.00
						6477326.95	2300478.99	8.00	0.00
						6477326.04	2300479.03	8.00	0.00
						6477182.81	2300492.05	8.00	0.00
						6477181.19	2300492.34	8.00	0.00
						6477179.63	2300492.89	8.00	0.00
						6477178.18	2300493.69	8.00	0.00
						6477176.89	2300494.71	8.00	0.00
						6477175.78	2300495.93	8.00	0.00
						6477174.89	2300497.32	8.00	0.00
						6477174.23	2300498.84	8.00	0.00
						6477173.84	2300500.45	8.00	0.00
						6477173.72	2300502.09	8.00	0.00
						6477173.87	2300503.74	8.00	0.00
						6477174.29	2300505.34	8.00	0.00
						6477174.96	2300506.84	8.00	0.00
						6477175.88	2300508.22	8.00	0.00
						6477177.00	2300509.42	8.00	0.00
						6477178.32	2300510.43	8.00	0.00
						6477179.77	2300511.20	8.00	0.00
						6477181.34	2300511.73	8.00	0.00
						6477182.97	2300511.99	8.00	0.00
						6477184.62	2300511.97	8.00	0.00
						6477327.85	2300498.95	8.00	0.00
						6477329.52	2300498.66	8.00	0.00
						6477331.11	2300498.09	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6477332.58	2300497.26	8.00	0.00
						6477333.89	2300496.19	8.00	0.00
						6477335.00	2300494.92	8.00	0.00
						6477335.89	2300493.48	8.00	0.00
						6477336.51	2300491.91	8.00	0.00
						6477336.87	2300490.25	8.00	0.00
						6477336.94	2300488.57	8.00	0.00
						6477336.72	2300486.89	8.00	0.00
						6477336.23	2300485.27	8.00	0.00
						6477335.47	2300483.76	8.00	0.00
						6477334.47	2300482.40	8.00	0.00
						6477333.25	2300481.23	8.00	0.00
						6477331.85	2300480.28	8.00	0.00
						6477330.32	2300479.58	8.00	0.00
CA07	CA07	8.00	r			6477307.85	2301338.52	8.00	0.00
						6477306.11	2301338.37	8.00	0.00
						6477305.02	2301338.43	8.00	0.00
						6477021.16	2301369.68	8.00	0.00
						6477019.46	2301370.02	8.00	0.00
						6477017.83	2301370.65	8.00	0.00
						6477016.34	2301371.56	8.00	0.00
						6477015.03	2301372.71	8.00	0.00
						6477013.94	2301374.07	8.00	0.00
						6477013.10	2301375.59	8.00	0.00
						6477012.54	2301377.25	8.00	0.00
						6477012.28	2301378.97	8.00	0.00
						6477012.32	2301380.71	8.00	0.00
						6477012.66	2301382.42	8.00	0.00
						6477013.29	2301384.05	8.00	0.00
						6477014.20	2301385.53	8.00	0.00
						6477015.35	2301386.84	8.00	0.00
						6477016.71	2301387.94	8.00	0.00
						6477018.24	2301388.77	8.00	0.00
						6477019.89	2301389.33	8.00	0.00
						6477021.61	2301389.60	8.00	0.00
						6477023.35	2301389.56	8.00	0.00
						6477307.21	2301358.31	8.00	0.00
						6477308.86	2301357.98	8.00	0.00
						6477310.43	2301357.39	8.00	0.00
						6477311.87	2301356.54	8.00	0.00
						6477313.16	2301355.46	8.00	0.00
						6477314.25	2301354.18	8.00	0.00
						6477315.11	2301352.74	8.00	0.00
						6477315.71	2301351.17	8.00	0.00
						6477316.05	2301349.53	8.00	0.00
						6477316.10	2301347.85	8.00	0.00
						6477315.87	2301346.19	8.00	0.00
						6477315.37	2301344.59	8.00	0.00
						6477314.61	2301343.09	8.00	0.00
						6477313.61	2301341.74	8.00	0.00
						6477312.39	2301340.58	8.00	0.00
						6477311.00	2301339.64	8.00	0.00
						6477309.47	2301338.95	8.00	0.00
CA08	CA08	8.00	r			6477307.85	2301653.62	8.00	0.00
						6477306.11	2301653.47	8.00	0.00
						6477305.47	2301653.49	8.00	0.00
						6477063.28	2301669.12	8.00	0.00
						6477061.65	2301669.36	8.00	0.00
						6477060.08	2301669.87	8.00	0.00
						6477058.61	2301670.63	8.00	0.00
						6477057.29	2301671.62	8.00	0.00
						6477056.15	2301672.81	8.00	0.00
						6477055.22	2301674.18	8.00	0.00
						6477054.53	2301675.68	8.00	0.00
						6477054.09	2301677.27	8.00	0.00
						6477053.93	2301678.91	8.00	0.00
						6477054.03	2301680.56	8.00	0.00
						6477054.41	2301682.17	8.00	0.00
						6477055.05	2301683.69	8.00	0.00
						6477055.92	2301685.09	8.00	0.00
						6477057.02	2301686.33	8.00	0.00
						6477058.30	2301687.37	8.00	0.00
						6477059.74	2301688.18	8.00	0.00
						6477061.29	2301688.74	8.00	0.00
						6477062.92	2301689.05	8.00	0.00
						6477064.57	2301689.08	8.00	0.00
						6477306.76	2301673.45	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6477308.44	2301673.20	8.00	0.00
						6477310.06	2301672.66	8.00	0.00
						6477311.57	2301671.85	8.00	0.00
						6477312.91	2301670.81	8.00	0.00
						6477314.06	2301669.54	8.00	0.00
						6477314.97	2301668.11	8.00	0.00
						6477315.63	2301666.53	8.00	0.00
						6477316.01	2301664.87	8.00	0.00
						6477316.11	2301663.17	8.00	0.00
						6477315.91	2301661.47	8.00	0.00
						6477315.43	2301659.84	8.00	0.00
						6477314.68	2301658.31	8.00	0.00
						6477313.68	2301656.93	8.00	0.00
						6477312.45	2301655.74	8.00	0.00
						6477311.05	2301654.77	8.00	0.00
						6477309.50	2301654.06	8.00	0.00
CA09	CA09	8.00	r			6477301.02	2301968.58	8.00	0.00
						6477074.40	2301965.97	8.00	0.00
						6477072.67	2301966.11	8.00	0.00
						6477070.98	2301966.55	8.00	0.00
						6477069.40	2301967.28	8.00	0.00
						6477067.97	2301968.27	8.00	0.00
						6477066.73	2301969.49	8.00	0.00
						6477065.72	2301970.91	8.00	0.00
						6477064.97	2301972.48	8.00	0.00
						6477064.51	2301974.15	8.00	0.00
						6477064.34	2301975.89	8.00	0.00
						6477064.48	2301977.62	8.00	0.00
						6477064.91	2301979.30	8.00	0.00
						6477065.63	2301980.89	8.00	0.00
						6477066.62	2301982.32	8.00	0.00
						6477067.84	2301983.57	8.00	0.00
						6477069.25	2301984.58	8.00	0.00
						6477070.82	2301985.33	8.00	0.00
						6477072.50	2301985.80	8.00	0.00
						6477074.23	2301985.97	8.00	0.00
						6477300.85	2301988.58	8.00	0.00
						6477302.58	2301988.43	8.00	0.00
						6477304.27	2301987.99	8.00	0.00
						6477305.85	2301987.27	8.00	0.00
						6477307.28	2301986.28	8.00	0.00
						6477308.52	2301985.06	8.00	0.00
						6477309.53	2301983.64	8.00	0.00
						6477310.27	2301982.07	8.00	0.00
						6477310.74	2301980.39	8.00	0.00
						6477310.90	2301978.66	8.00	0.00
						6477310.77	2301976.93	8.00	0.00
						6477310.33	2301975.24	8.00	0.00
						6477309.61	2301973.66	8.00	0.00
						6477308.63	2301972.22	8.00	0.00
						6477307.41	2301970.98	8.00	0.00
						6477306.00	2301969.97	8.00	0.00
						6477304.43	2301969.22	8.00	0.00
						6477302.75	2301968.75	8.00	0.00
CA10	CA10	8.00	r			6477300.04	2302268.21	8.00	0.00
						6477298.30	2302268.05	8.00	0.00
						6477298.04	2302268.06	8.00	0.00
						6477097.52	2302273.27	8.00	0.00
						6477095.79	2302273.46	8.00	0.00
						6477094.12	2302273.96	8.00	0.00
						6477092.56	2302274.74	8.00	0.00
						6477091.16	2302275.77	8.00	0.00
						6477089.96	2302277.04	8.00	0.00
						6477088.99	2302278.49	8.00	0.00
						6477088.30	2302280.09	8.00	0.00
						6477087.89	2302281.78	8.00	0.00
						6477087.78	2302283.52	8.00	0.00
						6477087.98	2302285.25	8.00	0.00
						6477088.48	2302286.93	8.00	0.00
						6477089.25	2302288.49	8.00	0.00
						6477090.29	2302289.89	8.00	0.00
						6477091.55	2302291.09	8.00	0.00
						6477093.01	2302292.05	8.00	0.00
						6477094.61	2302292.75	8.00	0.00
						6477096.30	2302293.15	8.00	0.00
						6477098.04	2302293.26	8.00	0.00
						6477298.56	2302288.05	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6477300.28	2302287.86	8.00	0.00
						6477301.94	2302287.37	8.00	0.00
						6477303.48	2302286.61	8.00	0.00
						6477304.88	2302285.59	8.00	0.00
						6477306.08	2302284.34	8.00	0.00
						6477307.04	2302282.91	8.00	0.00
						6477307.75	2302281.33	8.00	0.00
						6477308.17	2302279.66	8.00	0.00
						6477308.30	2302277.93	8.00	0.00
						6477308.13	2302276.21	8.00	0.00
						6477307.67	2302274.55	8.00	0.00
						6477306.92	2302272.99	8.00	0.00
						6477305.92	2302271.58	8.00	0.00
						6477304.69	2302270.36	8.00	0.00
						6477303.27	2302269.38	8.00	0.00
						6477301.71	2302268.65	8.00	0.00
CA11	CA11	8.00	r			6476654.20	2302591.12	8.00	0.00
						6476652.58	2302590.97	8.00	0.00
						6476650.96	2302591.09	8.00	0.00
						6476649.37	2302591.46	8.00	0.00
						6476647.87	2302592.09	8.00	0.00
						6476646.49	2302592.96	8.00	0.00
						6476645.27	2302594.03	8.00	0.00
						6476644.23	2302595.29	8.00	0.00
						6476643.42	2302596.71	8.00	0.00
						6476642.85	2302598.23	8.00	0.00
						6476642.53	2302599.83	8.00	0.00
						6476642.48	2302601.46	8.00	0.00
						6476647.69	2302708.23	8.00	0.00
						6476647.83	2302709.48	8.00	0.00
						6476648.22	2302710.99	8.00	0.00
						6476676.89	2302794.41	8.00	0.00
						6476677.06	2302794.84	8.00	0.00
						6476710.91	2302878.17	8.00	0.00
						6476711.52	2302879.41	8.00	0.00
						6476711.80	2302879.87	8.00	0.00
						6476750.86	2302939.77	8.00	0.00
						6476751.87	2302941.06	8.00	0.00
						6476753.07	2302942.18	8.00	0.00
						6476849.42	2303017.70	8.00	0.00
						6476850.59	2303018.49	8.00	0.00
						6476851.38	2303018.90	8.00	0.00
						6476924.30	2303052.75	8.00	0.00
						6476925.09	2303053.08	8.00	0.00
						6476925.35	2303053.17	8.00	0.00
						6476987.85	2303074.00	8.00	0.00
						6476989.28	2303074.36	8.00	0.00
						6477107.05	2303094.84	8.00	0.00
						6477180.58	2303143.02	8.00	0.00
						6477256.24	2303199.76	8.00	0.00
						6477165.20	2303342.47	8.00	0.00
						6477104.12	2303416.28	8.00	0.00
						6476985.68	2303490.95	8.00	0.00
						6476984.29	2303492.00	8.00	0.00
						6476983.10	2303493.28	8.00	0.00
						6476982.16	2303494.75	8.00	0.00
						6476981.49	2303496.36	8.00	0.00
						6476981.10	2303498.06	8.00	0.00
						6476981.02	2303499.80	8.00	0.00
						6476981.24	2303501.53	8.00	0.00
						6476981.75	2303503.19	8.00	0.00
						6476982.55	2303504.74	8.00	0.00
						6476983.60	2303506.13	8.00	0.00
						6476984.88	2303507.31	8.00	0.00
						6476986.35	2303508.26	8.00	0.00
						6476987.96	2303508.93	8.00	0.00
						6476989.66	2303509.32	8.00	0.00
						6476991.40	2303509.40	8.00	0.00
						6476993.13	2303509.18	8.00	0.00
						6476994.79	2303508.67	8.00	0.00
						6476996.34	2303507.87	8.00	0.00
						6477116.13	2303432.35	8.00	0.00
						6477117.23	2303431.55	8.00	0.00
						6477118.48	2303430.29	8.00	0.00
						6477181.00	2303354.74	8.00	0.00
						6477181.73	2303353.75	8.00	0.00
						6477278.09	2303202.70	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6477278.86	2303201.24	8.00	0.00
						6477279.38	2303199.66	8.00	0.00
						6477279.63	2303198.02	8.00	0.00
						6477279.61	2303196.36	8.00	0.00
						6477279.31	2303194.73	8.00	0.00
						6477278.75	2303193.17	8.00	0.00
						6477277.94	2303191.72	8.00	0.00
						6477276.90	2303190.43	8.00	0.00
						6477275.66	2303189.33	8.00	0.00
						6477192.32	2303126.83	8.00	0.00
						6477191.80	2303126.46	8.00	0.00
						6477116.28	2303076.98	8.00	0.00
						6477115.10	2303076.32	8.00	0.00
						6477113.84	2303075.82	8.00	0.00
						6477112.53	2303075.50	8.00	0.00
						6476993.46	2303054.79	8.00	0.00
						6476932.21	2303034.37	8.00	0.00
						6476860.85	2303001.24	8.00	0.00
						6476766.71	2302927.46	8.00	0.00
						6476729.08	2302869.75	8.00	0.00
						6476695.69	2302787.57	8.00	0.00
						6476667.59	2302705.84	8.00	0.00
						6476662.46	2302600.48	8.00	0.00
						6476662.23	2302598.82	8.00	0.00
						6476661.73	2302597.21	8.00	0.00
						6476660.97	2302595.71	8.00	0.00
						6476659.97	2302594.36	8.00	0.00
						6476658.75	2302593.19	8.00	0.00
						6476657.36	2302592.25	8.00	0.00
						6476655.83	2302591.55	8.00	0.00
CA12	CA12	8.00	r			6476984.93	2303052.06	8.00	0.00
						6476983.34	2303051.91	8.00	0.00
						6476981.75	2303052.01	8.00	0.00
						6476980.19	2303052.37	8.00	0.00
						6476978.71	2303052.97	8.00	0.00
						6476977.34	2303053.80	8.00	0.00
						6476976.12	2303054.84	8.00	0.00
						6476975.09	2303056.06	8.00	0.00
						6476974.26	2303057.43	8.00	0.00
						6476973.66	2303058.91	8.00	0.00
						6476973.30	2303060.47	8.00	0.00
						6476955.07	2303185.47	8.00	0.00
						6476954.97	2303187.11	8.00	0.00
						6476955.14	2303188.76	8.00	0.00
						6476955.58	2303190.35	8.00	0.00
						6476956.27	2303191.85	8.00	0.00
						6476957.20	2303193.21	8.00	0.00
						6476958.35	2303194.40	8.00	0.00
						6476959.67	2303195.39	8.00	0.00
						6476961.14	2303196.15	8.00	0.00
						6476962.71	2303196.65	8.00	0.00
						6476964.35	2303196.89	8.00	0.00
						6476966.00	2303196.86	8.00	0.00
						6476967.62	2303196.55	8.00	0.00
						6476969.17	2303195.98	8.00	0.00
						6476970.61	2303195.17	8.00	0.00
						6476971.89	2303194.13	8.00	0.00
						6476972.98	2303192.89	8.00	0.00
						6476973.86	2303191.49	8.00	0.00
						6476974.49	2303189.96	8.00	0.00
						6476974.86	2303188.35	8.00	0.00
						6476993.09	2303063.35	8.00	0.00
						6476993.19	2303061.64	8.00	0.00
						6476993.00	2303059.95	8.00	0.00
						6476992.52	2303058.30	8.00	0.00
						6476991.77	2303056.77	8.00	0.00
						6476990.77	2303055.38	8.00	0.00
						6476989.55	2303054.19	8.00	0.00
						6476988.14	2303053.22	8.00	0.00
						6476986.59	2303052.50	8.00	0.00
CA13	CA13	8.00	r			6476870.35	2302817.69	8.00	0.00
						6476868.78	2302817.54	8.00	0.00
						6476867.20	2302817.63	8.00	0.00
						6476865.66	2302817.98	8.00	0.00
						6476864.20	2302818.56	8.00	0.00
						6476862.84	2302819.37	8.00	0.00
						6476861.63	2302820.38	8.00	0.00

Name	ID	Height			Coordinates			
		Begin		End	x	y	z	Ground
		(ft)		(ft)	(ft)	(ft)	(ft)	(ft)
					6476752.25	2302927.15	8.00	0.00
					6476751.12	2302928.47	8.00	0.00
					6476750.23	2302929.97	8.00	0.00
					6476749.61	2302931.60	8.00	0.00
					6476749.29	2302933.31	8.00	0.00
					6476749.27	2302935.06	8.00	0.00
					6476749.55	2302936.78	8.00	0.00
					6476750.13	2302938.42	8.00	0.00
					6476750.98	2302939.94	8.00	0.00
					6476752.08	2302941.29	8.00	0.00
					6476753.40	2302942.43	8.00	0.00
					6476754.90	2302943.32	8.00	0.00
					6476756.53	2302943.93	8.00	0.00
					6476758.25	2302944.26	8.00	0.00
					6476759.99	2302944.28	8.00	0.00
					6476761.71	2302943.99	8.00	0.00
					6476763.36	2302943.42	8.00	0.00
					6476764.88	2302942.56	8.00	0.00
					6476766.22	2302941.46	8.00	0.00
					6476875.60	2302834.69	8.00	0.00
					6476876.70	2302833.41	8.00	0.00
					6476877.57	2302831.97	8.00	0.00
					6476878.19	2302830.40	8.00	0.00
					6476878.54	2302828.76	8.00	0.00
					6476878.60	2302827.07	8.00	0.00
					6476878.38	2302825.40	8.00	0.00
					6476877.89	2302823.79	8.00	0.00
					6476877.13	2302822.29	8.00	0.00
					6476876.12	2302820.93	8.00	0.00
					6476874.91	2302819.76	8.00	0.00
					6476873.51	2302818.82	8.00	0.00
					6476871.98	2302818.12	8.00	0.00
CA15	CA15	8.00	r		6475486.57	2301440.52	8.00	0.00
					6475397.98	2301409.25	8.00	0.00
					6475396.39	2301408.83	8.00	0.00
					6475395.11	2301408.69	8.00	0.00
					6475337.82	2301406.09	8.00	0.00
					6475336.59	2301406.11	8.00	0.00
					6475335.38	2301406.27	8.00	0.00
					6475334.20	2301406.59	8.00	0.00
					6475201.39	2301450.86	8.00	0.00
					6475199.79	2301451.55	8.00	0.00
					6475198.33	2301452.51	8.00	0.00
					6475197.07	2301453.71	8.00	0.00
					6475196.03	2301455.11	8.00	0.00
					6475195.25	2301456.67	8.00	0.00
					6475194.75	2301458.34	8.00	0.00
					6475194.55	2301460.07	8.00	0.00
					6475194.66	2301461.81	8.00	0.00
					6475195.06	2301463.51	8.00	0.00
					6475195.76	2301465.11	8.00	0.00
					6475196.72	2301466.56	8.00	0.00
					6475197.92	2301467.83	8.00	0.00
					6475199.32	2301468.87	8.00	0.00
					6475200.88	2301469.65	8.00	0.00
					6475202.55	2301470.14	8.00	0.00
					6475204.28	2301470.34	8.00	0.00
					6475206.02	2301470.24	8.00	0.00
					6475207.71	2301469.83	8.00	0.00
					6475338.76	2301426.15	8.00	0.00
					6475392.72	2301428.60	8.00	0.00
					6475478.54	2301458.89	8.00	0.00
					6475511.78	2301482.64	8.00	0.00
					6475570.57	2301602.76	8.00	0.00
					6475571.41	2301604.18	8.00	0.00
					6475572.48	2301605.44	8.00	0.00
					6475573.74	2301606.51	8.00	0.00
					6475575.16	2301607.35	8.00	0.00
					6475576.70	2301607.95	8.00	0.00
					6475578.32	2301608.29	8.00	0.00
					6475579.97	2301608.36	8.00	0.00
					6475581.61	2301608.15	8.00	0.00
					6475583.19	2301607.68	8.00	0.00
					6475584.67	2301606.96	8.00	0.00
					6475586.02	2301606.00	8.00	0.00
					6475587.18	2301604.83	8.00	0.00
					6475588.14	2301603.48	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6475588.87	2301602.00	8.00	0.00
						6475589.34	2301600.42	8.00	0.00
						6475589.54	2301598.78	8.00	0.00
						6475589.47	2301597.13	8.00	0.00
						6475589.13	2301595.51	8.00	0.00
						6475588.53	2301593.97	8.00	0.00
						6475528.64	2301471.58	8.00	0.00
						6475527.79	2301470.16	8.00	0.00
						6475526.73	2301468.90	8.00	0.00
						6475525.47	2301467.83	8.00	0.00
						6475489.01	2301441.79	8.00	0.00
						6475488.20	2301441.27	8.00	0.00
CA16	CA16	8.00	r			6475474.52	2301877.58	8.00	0.00
						6475472.91	2301877.43	8.00	0.00
						6475471.30	2301877.54	8.00	0.00
						6475469.74	2301877.90	8.00	0.00
						6475468.25	2301878.52	8.00	0.00
						6475466.87	2301879.36	8.00	0.00
						6475465.65	2301880.41	8.00	0.00
						6475464.62	2301881.65	8.00	0.00
						6475463.80	2301883.04	8.00	0.00
						6475463.21	2301884.54	8.00	0.00
						6475429.35	2301996.52	8.00	0.00
						6475429.01	2301998.13	8.00	0.00
						6475428.93	2301999.78	8.00	0.00
						6475429.13	2302001.42	8.00	0.00
						6475429.59	2302003.00	8.00	0.00
						6475430.31	2302004.49	8.00	0.00
						6475431.27	2302005.84	8.00	0.00
						6475432.43	2302007.01	8.00	0.00
						6475433.77	2302007.98	8.00	0.00
						6475435.25	2302008.71	8.00	0.00
						6475436.83	2302009.19	8.00	0.00
						6475438.47	2302009.40	8.00	0.00
						6475440.12	2302009.34	8.00	0.00
						6475441.74	2302009.01	8.00	0.00
						6475443.28	2302008.41	8.00	0.00
						6475444.70	2302007.57	8.00	0.00
						6475445.97	2302006.51	8.00	0.00
						6475447.04	2302005.25	8.00	0.00
						6475447.89	2302003.84	8.00	0.00
						6475448.50	2302002.30	8.00	0.00
						6475482.35	2301890.32	8.00	0.00
						6475482.70	2301888.67	8.00	0.00
						6475482.77	2301886.99	8.00	0.00
						6475482.55	2301885.31	8.00	0.00
						6475482.06	2301883.70	8.00	0.00
						6475481.30	2301882.19	8.00	0.00
						6475480.30	2301880.83	8.00	0.00
						6475479.08	2301879.66	8.00	0.00
						6475477.68	2301878.71	8.00	0.00
						6475476.15	2301878.01	8.00	0.00
CA17	CA17	8.00	r			6475857.33	2301710.91	8.00	0.00
						6475855.60	2301710.76	8.00	0.00
						6475853.87	2301710.91	8.00	0.00
						6475852.20	2301711.36	8.00	0.00
						6475850.62	2301712.08	8.00	0.00
						6475849.20	2301713.07	8.00	0.00
						6475847.97	2301714.29	8.00	0.00
						6475846.96	2301715.71	8.00	0.00
						6475846.22	2301717.27	8.00	0.00
						6475845.76	2301718.94	8.00	0.00
						6475845.59	2301720.67	8.00	0.00
						6475845.73	2301722.40	8.00	0.00
						6475846.16	2301724.08	8.00	0.00
						6475846.87	2301725.66	8.00	0.00
						6475847.85	2301727.09	8.00	0.00
						6475849.06	2301728.33	8.00	0.00
						6475850.47	2301729.35	8.00	0.00
						6475852.03	2301730.11	8.00	0.00
						6475995.33	2301784.82	8.00	0.00
						6475997.00	2301785.28	8.00	0.00
						6475998.73	2301785.45	8.00	0.00
						6476000.47	2301785.31	8.00	0.00
						6476002.15	2301784.88	8.00	0.00
						6476003.73	2301784.16	8.00	0.00
						6476005.17	2301783.18	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6476006.41	2301781.96	8.00	0.00
						6476007.42	2301780.55	8.00	0.00
						6476008.18	2301778.98	8.00	0.00
						6476008.65	2301777.31	8.00	0.00
						6476008.82	2301775.58	8.00	0.00
						6476008.69	2301773.84	8.00	0.00
						6476008.26	2301772.16	8.00	0.00
						6476007.55	2301770.57	8.00	0.00
						6476006.57	2301769.13	8.00	0.00
						6476005.36	2301767.89	8.00	0.00
						6476003.95	2301766.87	8.00	0.00
						6476002.39	2301766.11	8.00	0.00
						6475859.09	2301711.39	8.00	0.00
CA18	CA18	8.00	r			6475702.60	2300642.56	8.00	0.00
						6475700.97	2300642.40	8.00	0.00
						6475699.33	2300642.52	8.00	0.00
						6475697.74	2300642.90	8.00	0.00
						6475696.23	2300643.54	8.00	0.00
						6475694.85	2300644.41	8.00	0.00
						6475693.63	2300645.50	8.00	0.00
						6475692.60	2300646.78	8.00	0.00
						6475691.79	2300648.20	8.00	0.00
						6475691.22	2300649.74	8.00	0.00
						6475690.92	2300651.35	8.00	0.00
						6475690.88	2300652.98	8.00	0.00
						6475691.11	2300654.60	8.00	0.00
						6475691.60	2300656.17	8.00	0.00
						6475692.33	2300657.63	8.00	0.00
						6475693.30	2300658.95	8.00	0.00
						6475694.47	2300660.10	8.00	0.00
						6475798.26	2300745.48	8.00	0.00
						6475828.46	2300800.84	8.00	0.00
						6475885.63	2300920.39	8.00	0.00
						6475885.87	2300920.85	8.00	0.00
						6475950.97	2301040.64	8.00	0.00
						6475951.88	2301042.02	8.00	0.00
						6475953.00	2301043.24	8.00	0.00
						6475954.30	2301044.25	8.00	0.00
						6475955.76	2301045.03	8.00	0.00
						6475957.32	2301045.57	8.00	0.00
						6475958.95	2301045.83	8.00	0.00
						6475960.60	2301045.83	8.00	0.00
						6475962.23	2301045.56	8.00	0.00
						6475963.79	2301045.02	8.00	0.00
						6475965.24	2301044.23	8.00	0.00
						6475966.55	2301043.21	8.00	0.00
						6475967.66	2301042.00	8.00	0.00
						6475968.56	2301040.61	8.00	0.00
						6475969.22	2301039.10	8.00	0.00
						6475969.63	2301037.50	8.00	0.00
						6475969.76	2301035.85	8.00	0.00
						6475969.62	2301034.20	8.00	0.00
						6475969.21	2301032.60	8.00	0.00
						6475968.55	2301031.09	8.00	0.00
						6475903.56	2300911.53	8.00	0.00
						6475846.38	2300791.97	8.00	0.00
						6475846.14	2300791.50	8.00	0.00
						6475814.89	2300734.20	8.00	0.00
						6475814.22	2300733.14	8.00	0.00
						6475813.42	2300732.17	8.00	0.00
						6475812.50	2300731.30	8.00	0.00
						6475707.21	2300644.68	8.00	0.00
						6475705.81	2300643.71	8.00	0.00
						6475704.25	2300643.00	8.00	0.00
CA19	CA19	8.00	r			6475841.49	2300477.63	8.00	0.00
						6475839.79	2300477.47	8.00	0.00
						6475838.08	2300477.61	8.00	0.00
						6475836.43	2300478.04	8.00	0.00
						6475834.87	2300478.74	8.00	0.00
						6475833.46	2300479.70	8.00	0.00
						6475832.23	2300480.88	8.00	0.00
						6475831.22	2300482.26	8.00	0.00
						6475830.46	2300483.79	8.00	0.00
						6475829.96	2300485.42	8.00	0.00
						6475829.76	2300487.12	8.00	0.00
						6475829.84	2300488.82	8.00	0.00
						6475830.22	2300490.49	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6475830.87	2300492.07	8.00	0.00
						6475831.78	2300493.51	8.00	0.00
						6475832.92	2300494.78	8.00	0.00
						6475834.26	2300495.83	8.00	0.00
						6475951.67	2300572.87	8.00	0.00
						6475953.12	2300573.66	8.00	0.00
						6475954.68	2300574.20	8.00	0.00
						6475956.31	2300574.48	8.00	0.00
						6475957.96	2300574.48	8.00	0.00
						6475959.59	2300574.21	8.00	0.00
						6475961.15	2300573.68	8.00	0.00
						6475962.61	2300572.90	8.00	0.00
						6475963.91	2300571.88	8.00	0.00
						6475965.03	2300570.67	8.00	0.00
						6475965.94	2300569.29	8.00	0.00
						6475966.61	2300567.78	8.00	0.00
						6475967.02	2300566.18	8.00	0.00
						6475967.16	2300564.53	8.00	0.00
						6475967.02	2300562.89	8.00	0.00
						6475966.62	2300561.29	8.00	0.00
						6475965.96	2300559.77	8.00	0.00
						6475965.06	2300558.39	8.00	0.00
						6475963.94	2300557.17	8.00	0.00
						6475962.64	2300556.15	8.00	0.00
						6475845.24	2300479.11	8.00	0.00
						6475844.06	2300478.45	8.00	0.00
						6475842.80	2300477.95	8.00	0.00
CA21	CA21	8.00	r			6474234.50	2301288.70	8.00	0.00
						6474031.34	2301114.18	8.00	0.00
						6474030.05	2301113.25	8.00	0.00
						6474028.63	2301112.54	8.00	0.00
						6474027.12	2301112.06	8.00	0.00
						6474025.55	2301111.83	8.00	0.00
						6474023.97	2301111.84	8.00	0.00
						6474022.41	2301112.11	8.00	0.00
						6474020.91	2301112.62	8.00	0.00
						6474019.51	2301113.36	8.00	0.00
						6474018.24	2301114.31	8.00	0.00
						6474017.14	2301115.46	8.00	0.00
						6473845.69	2301328.46	8.00	0.00
						6473792.22	2301376.84	8.00	0.00
						6473736.97	2301412.00	8.00	0.00
						6473678.95	2301427.14	8.00	0.00
						6473623.30	2301437.26	8.00	0.00
						6473524.91	2301429.69	8.00	0.00
						6473447.41	2301392.18	8.00	0.00
						6473366.06	2301310.83	8.00	0.00
						6473336.05	2301263.32	8.00	0.00
						6473313.47	2301195.59	8.00	0.00
						6473308.30	2300980.90	8.00	0.00
						6473305.74	2300901.52	8.00	0.00
						6473318.21	2300851.64	8.00	0.00
						6473359.32	2300759.14	8.00	0.00
						6473388.95	2300707.28	8.00	0.00
						6473464.25	2300664.61	8.00	0.00
						6473570.55	2300617.94	8.00	0.00
						6473572.06	2300617.12	8.00	0.00
						6473573.40	2300616.05	8.00	0.00
						6473574.54	2300614.77	8.00	0.00
						6473575.45	2300613.31	8.00	0.00
						6473576.09	2300611.71	8.00	0.00
						6473576.45	2300610.03	8.00	0.00
						6473576.52	2300608.32	8.00	0.00
						6473576.29	2300606.61	8.00	0.00
						6473550.52	2300490.63	8.00	0.00
						6473553.71	2300371.74	8.00	0.00
						6473583.69	2300260.37	8.00	0.00
						6473626.58	2300136.00	8.00	0.00
						6473751.13	2299945.02	8.00	0.00
						6473898.68	2300022.89	8.00	0.00
						6473993.07	2300091.54	8.00	0.00
						6474070.21	2300164.39	8.00	0.00
						6474152.06	2300267.78	8.00	0.00
						6474299.47	2300475.89	8.00	0.00
						6474299.85	2300476.40	8.00	0.00
						6474391.06	2300589.31	8.00	0.00
						6474392.35	2300590.62	8.00	0.00

Name	ID	Height		Coordinates			
		Begin	End	x	y	z	Ground
		(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
				6474393.00	2300591.12	8.00	0.00
				6474556.48	2300706.82	8.00	0.00
				6474557.13	2300707.24	8.00	0.00
				6474710.53	2300798.98	8.00	0.00
				6474711.39	2300799.43	8.00	0.00
				6474827.21	2300853.03	8.00	0.00
				6474827.99	2300853.35	8.00	0.00
				6474828.50	2300853.52	8.00	0.00
				6475012.19	2300909.37	8.00	0.00
				6475013.86	2300909.72	8.00	0.00
				6475015.57	2300909.79	8.00	0.00
				6475197.87	2300901.11	8.00	0.00
				6475199.13	2300900.97	8.00	0.00
				6475199.53	2300900.89	8.00	0.00
				6475377.48	2300861.82	8.00	0.00
				6475378.76	2300861.45	8.00	0.00
				6475379.28	2300861.25	8.00	0.00
				6475500.81	2300809.16	8.00	0.00
				6475501.87	2300808.63	8.00	0.00
				6475614.71	2300743.53	8.00	0.00
				6475616.14	2300742.53	8.00	0.00
				6475616.42	2300742.28	8.00	0.00
				6475707.57	2300659.82	8.00	0.00
				6475707.93	2300659.47	8.00	0.00
				6475781.72	2300585.69	8.00	0.00
				6475782.31	2300585.05	8.00	0.00
				6475782.78	2300584.43	8.00	0.00
				6475847.91	2300493.26	8.00	0.00
				6475930.39	2300376.04	8.00	0.00
				6475931.19	2300374.71	8.00	0.00
				6475931.76	2300373.27	8.00	0.00
				6475975.19	2300234.30	8.00	0.00
				6476018.62	2300086.65	8.00	0.00
				6476018.87	2300085.56	8.00	0.00
				6476019.00	2300084.52	8.00	0.00
				6476027.68	2299958.65	8.00	0.00
				6476027.70	2299957.96	8.00	0.00
				6476027.66	2299957.00	8.00	0.00
				6476014.63	2299822.45	8.00	0.00
				6476014.60	2299822.13	8.00	0.00
				6475997.24	2299687.58	8.00	0.00
				6475997.16	2299687.06	8.00	0.00
				6475966.91	2299527.19	8.00	0.00
				6475962.60	2299380.74	8.00	0.00
				6475980.14	2298898.10	8.00	0.00
				6475980.06	2298896.45	8.00	0.00
				6475979.72	2298894.84	8.00	0.00
				6475979.11	2298893.30	8.00	0.00
				6475978.26	2298891.89	8.00	0.00
				6475977.18	2298890.63	8.00	0.00
				6475975.92	2298889.57	8.00	0.00
				6475974.49	2298888.73	8.00	0.00
				6475972.95	2298888.14	8.00	0.00
				6475971.33	2298887.81	8.00	0.00
				6475969.68	2298887.75	8.00	0.00
				6475968.05	2298887.96	8.00	0.00
				6475966.46	2298888.44	8.00	0.00
				6475964.98	2298889.17	8.00	0.00
				6475963.65	2298890.14	8.00	0.00
				6475962.48	2298891.31	8.00	0.00
				6475961.53	2298892.66	8.00	0.00
				6475960.81	2298894.15	8.00	0.00
				6475960.35	2298895.74	8.00	0.00
				6475960.15	2298897.38	8.00	0.00
				6475942.60	2299380.34	8.00	0.00
				6475942.60	2299380.70	8.00	0.00
				6475942.60	2299381.00	8.00	0.00
				6475946.94	2299528.57	8.00	0.00
				6475947.10	2299530.07	8.00	0.00
				6475977.44	2299690.43	8.00	0.00
				6475994.74	2299824.53	8.00	0.00
				6476007.67	2299958.10	8.00	0.00
				6475999.12	2300082.05	8.00	0.00
				6475956.05	2300228.49	8.00	0.00
				6475913.14	2300365.81	8.00	0.00
				6475831.59	2300481.69	8.00	0.00
				6475766.99	2300572.13	8.00	0.00

Name	ID	Height		Coordinates			
		Begin	End	x	y	z	Ground
		(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
				6475693.97	2300645.16	8.00	0.00
				6475603.80	2300726.74	8.00	0.00
				6475492.38	2300791.02	8.00	0.00
				6475372.27	2300842.49	8.00	0.00
				6475196.07	2300881.17	8.00	0.00
				6475016.35	2300889.73	8.00	0.00
				6474834.98	2300834.59	8.00	0.00
				6474720.27	2300781.50	8.00	0.00
				6474567.72	2300690.28	8.00	0.00
				6474405.69	2300575.60	8.00	0.00
				6474315.61	2300464.07	8.00	0.00
				6474168.22	2300256.00	8.00	0.00
				6474167.90	2300255.57	8.00	0.00
				6474085.44	2300151.41	8.00	0.00
				6474085.26	2300151.18	8.00	0.00
				6474084.46	2300150.34	8.00	0.00
				6474006.34	2300076.56	8.00	0.00
				6474005.90	2300076.17	8.00	0.00
				6474005.35	2300075.74	8.00	0.00
				6473909.87	2300006.30	8.00	0.00
				6473908.99	2300005.72	8.00	0.00
				6473908.65	2300005.54	8.00	0.00
				6473752.40	2299923.07	8.00	0.00
				6473750.90	2299922.43	8.00	0.00
				6473749.30	2299922.04	8.00	0.00
				6473747.66	2299921.92	8.00	0.00
				6473746.03	2299922.06	8.00	0.00
				6473744.44	2299922.48	8.00	0.00
				6473742.94	2299923.14	8.00	0.00
				6473741.57	2299924.04	8.00	0.00
				6473740.37	2299925.16	8.00	0.00
				6473739.36	2299926.45	8.00	0.00
				6473609.15	2300126.11	8.00	0.00
				6473608.87	2300126.57	8.00	0.00
				6473608.10	2300128.23	8.00	0.00
				6473564.67	2300254.18	8.00	0.00
				6473564.47	2300254.84	8.00	0.00
				6473534.09	2300367.69	8.00	0.00
				6473533.90	2300368.55	8.00	0.00
				6473533.75	2300370.02	8.00	0.00
				6473530.49	2300491.33	8.00	0.00
				6473530.53	2300492.55	8.00	0.00
				6473530.73	2300493.77	8.00	0.00
				6473554.99	2300602.93	8.00	0.00
				6473455.74	2300646.50	8.00	0.00
				6473454.83	2300646.96	8.00	0.00
				6473376.67	2300691.25	8.00	0.00
				6473375.57	2300691.98	8.00	0.00
				6473374.57	2300692.85	8.00	0.00
				6473373.70	2300693.85	8.00	0.00
				6473372.96	2300694.95	8.00	0.00
				6473341.70	2300749.66	8.00	0.00
				6473341.25	2300750.56	8.00	0.00
				6473299.58	2300844.31	8.00	0.00
				6473299.32	2300844.95	8.00	0.00
				6473299.02	2300845.94	8.00	0.00
				6473286.00	2300898.03	8.00	0.00
				6473285.75	2300899.39	8.00	0.00
				6473285.70	2300900.77	8.00	0.00
				6473288.30	2300981.46	8.00	0.00
				6473293.51	2301197.57	8.00	0.00
				6473293.66	2301199.06	8.00	0.00
				6473294.02	2301200.49	8.00	0.00
				6473317.46	2301270.80	8.00	0.00
				6473317.91	2301271.92	8.00	0.00
				6473318.49	2301272.98	8.00	0.00
				6473349.74	2301322.46	8.00	0.00
				6473350.54	2301323.55	8.00	0.00
				6473351.13	2301324.19	8.00	0.00
				6473434.46	2301407.52	8.00	0.00
				6473435.74	2301408.60	8.00	0.00
				6473437.17	2301409.45	8.00	0.00
				6473517.90	2301448.51	8.00	0.00
				6473519.06	2301448.99	8.00	0.00
				6473520.26	2301449.31	8.00	0.00
				6473521.49	2301449.48	8.00	0.00
				6473623.05	2301457.30	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6473623.82	2301457.33	8.00	0.00
						6473625.58	2301457.17	8.00	0.00
						6473682.90	2301446.75	8.00	0.00
						6473683.64	2301446.59	8.00	0.00
						6473743.53	2301430.96	8.00	0.00
						6473745.00	2301430.45	8.00	0.00
						6473746.38	2301429.72	8.00	0.00
						6473803.67	2301393.26	8.00	0.00
						6473804.73	2301392.49	8.00	0.00
						6473805.01	2301392.24	8.00	0.00
						6473859.70	2301342.76	8.00	0.00
						6473860.71	2301341.70	8.00	0.00
						6474026.18	2301136.12	8.00	0.00
						6474221.12	2301303.57	8.00	0.00
						6474300.72	2301385.73	8.00	0.00
						6474357.18	2301480.69	8.00	0.00
						6474409.00	2301589.52	8.00	0.00
						6474468.70	2301724.50	8.00	0.00
						6474585.75	2302047.01	8.00	0.00
						6474679.47	2302320.36	8.00	0.00
						6474679.54	2302320.56	8.00	0.00
						6474783.72	2302601.86	8.00	0.00
						6474898.32	2302906.57	8.00	0.00
						6474899.07	2302908.14	8.00	0.00
						6474900.08	2302909.56	8.00	0.00
						6474901.32	2302910.78	8.00	0.00
						6474902.76	2302911.76	8.00	0.00
						6474904.34	2302912.48	8.00	0.00
						6474906.03	2302912.92	8.00	0.00
						6474907.76	2302913.05	8.00	0.00
						6474909.49	2302912.89	8.00	0.00
						6474911.17	2302912.42	8.00	0.00
						6474912.74	2302911.68	8.00	0.00
						6474914.16	2302910.67	8.00	0.00
						6474915.38	2302909.43	8.00	0.00
						6474916.37	2302908.00	8.00	0.00
						6474917.09	2302906.41	8.00	0.00
						6474917.53	2302904.73	8.00	0.00
						6474917.68	2302903.00	8.00	0.00
						6474917.51	2302901.26	8.00	0.00
						6474917.05	2302899.58	8.00	0.00
						6474802.46	2302594.87	8.00	0.00
						6474698.35	2302313.76	8.00	0.00
						6474604.61	2302040.35	8.00	0.00
						6474487.39	2301717.35	8.00	0.00
						6474487.13	2301716.72	8.00	0.00
						6474427.24	2301581.30	8.00	0.00
						6474427.12	2301581.05	8.00	0.00
						6474375.04	2301471.67	8.00	0.00
						6474374.64	2301470.92	8.00	0.00
						6474317.31	2301374.51	8.00	0.00
						6474316.38	2301373.19	8.00	0.00
						6474315.90	2301372.66	8.00	0.00
						6474235.17	2301289.33	8.00	0.00
CA23	CA23	8.00	r			6475277.23	2300588.25	8.00	0.00
						6475384.65	2300545.93	8.00	0.00
						6475385.98	2300545.29	8.00	0.00
						6475386.50	2300544.96	8.00	0.00
						6475466.80	2300491.80	8.00	0.00
						6475467.21	2300491.51	8.00	0.00
						6475549.68	2300430.75	8.00	0.00
						6475550.75	2300429.83	8.00	0.00
						6475551.68	2300428.77	8.00	0.00
						6475626.55	2300331.01	8.00	0.00
						6475627.45	2300329.62	8.00	0.00
						6475628.10	2300328.10	8.00	0.00
						6475628.49	2300326.50	8.00	0.00
						6475628.61	2300324.85	8.00	0.00
						6475628.46	2300323.21	8.00	0.00
						6475628.05	2300321.61	8.00	0.00
						6475627.37	2300320.10	8.00	0.00
						6475626.46	2300318.73	8.00	0.00
						6475625.33	2300317.52	8.00	0.00
						6475624.02	2300316.52	8.00	0.00
						6475622.56	2300315.74	8.00	0.00
						6475620.99	2300315.22	8.00	0.00
						6475619.36	2300314.96	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6475617.71	2300314.97	8.00	0.00
						6475616.08	2300315.26	8.00	0.00
						6475614.52	2300315.80	8.00	0.00
						6475613.08	2300316.60	8.00	0.00
						6475611.78	2300317.63	8.00	0.00
						6475610.67	2300318.85	8.00	0.00
						6475536.67	2300415.49	8.00	0.00
						6475455.55	2300475.26	8.00	0.00
						6475376.34	2300527.71	8.00	0.00
						6475271.19	2300569.13	8.00	0.00
						6475176.15	2300578.64	8.00	0.00
						6475083.42	2300564.78	8.00	0.00
						6474998.56	2300544.37	8.00	0.00
						6474996.92	2300544.12	8.00	0.00
						6474995.27	2300544.14	8.00	0.00
						6474993.65	2300544.43	8.00	0.00
						6474992.09	2300544.99	8.00	0.00
						6474990.65	2300545.79	8.00	0.00
						6474989.36	2300546.82	8.00	0.00
						6474988.25	2300548.05	8.00	0.00
						6474987.37	2300549.44	8.00	0.00
						6474986.72	2300550.96	8.00	0.00
						6474986.33	2300552.57	8.00	0.00
						6474986.22	2300554.22	8.00	0.00
						6474986.37	2300555.86	8.00	0.00
						6474986.80	2300557.46	8.00	0.00
						6474987.48	2300558.96	8.00	0.00
						6474988.40	2300560.33	8.00	0.00
						6474989.53	2300561.53	8.00	0.00
						6474990.85	2300562.53	8.00	0.00
						6474992.31	2300563.30	8.00	0.00
						6474993.88	2300563.82	8.00	0.00
						6475079.17	2300584.33	8.00	0.00
						6475079.77	2300584.45	8.00	0.00
						6475080.03	2300584.49	8.00	0.00
						6475174.43	2300598.60	8.00	0.00
						6475175.91	2300598.71	8.00	0.00
						6475176.90	2300598.66	8.00	0.00
						6475274.56	2300588.89	8.00	0.00
						6475275.91	2300588.66	8.00	0.00
CA24	CA24	8.00	r			6474368.43	2299396.02	8.00	0.00
						6474644.42	2299389.08	8.00	0.00
						6475005.45	2299390.81	8.00	0.00
						6475380.44	2299387.34	8.00	0.00
						6475657.62	2299389.62	8.00	0.00
						6475952.58	2299390.70	8.00	0.00
						6475954.32	2299390.55	8.00	0.00
						6475956.00	2299390.11	8.00	0.00
						6475957.58	2299389.37	8.00	0.00
						6475959.01	2299388.38	8.00	0.00
						6475960.24	2299387.15	8.00	0.00
						6475961.25	2299385.72	8.00	0.00
						6475961.99	2299384.15	8.00	0.00
						6475962.44	2299382.46	8.00	0.00
						6475962.60	2299380.73	8.00	0.00
						6475962.45	2299378.99	8.00	0.00
						6475962.00	2299377.31	8.00	0.00
						6475961.27	2299375.73	8.00	0.00
						6475960.28	2299374.30	8.00	0.00
						6475959.05	2299373.06	8.00	0.00
						6475957.63	2299372.06	8.00	0.00
						6475956.05	2299371.32	8.00	0.00
						6475954.37	2299370.86	8.00	0.00
						6475952.63	2299370.70	8.00	0.00
						6475657.74	2299369.62	8.00	0.00
						6475380.43	2299367.34	8.00	0.00
						6475005.41	2299370.81	8.00	0.00
						6474644.35	2299369.07	8.00	0.00
						6474644.07	2299369.08	8.00	0.00
						6474368.13	2299376.02	8.00	0.00
						6474105.56	2299377.43	8.00	0.00
						6473819.66	2299377.76	8.00	0.00
						6473817.93	2299377.91	8.00	0.00
						6473816.25	2299378.36	8.00	0.00
						6473814.68	2299379.09	8.00	0.00
						6473813.26	2299380.08	8.00	0.00
						6473812.03	2299381.31	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6473811.03	2299382.72	8.00	0.00
						6473810.29	2299384.29	8.00	0.00
						6473809.83	2299385.97	8.00	0.00
						6473809.67	2299387.70	8.00	0.00
						6473807.94	2299675.43	8.00	0.00
						6473797.64	2299780.11	8.00	0.00
						6473780.75	2299845.98	8.00	0.00
						6473738.85	2299927.34	8.00	0.00
						6473738.21	2299928.86	8.00	0.00
						6473737.84	2299930.47	8.00	0.00
						6473737.74	2299932.12	8.00	0.00
						6473737.91	2299933.76	8.00	0.00
						6473738.35	2299935.36	8.00	0.00
						6473739.04	2299936.86	8.00	0.00
						6473739.97	2299938.22	8.00	0.00
						6473741.12	2299939.41	8.00	0.00
						6473742.44	2299940.40	8.00	0.00
						6473743.91	2299941.16	8.00	0.00
						6473745.48	2299941.66	8.00	0.00
						6473747.11	2299941.90	8.00	0.00
						6473748.77	2299941.86	8.00	0.00
						6473750.39	2299941.56	8.00	0.00
						6473751.94	2299940.99	8.00	0.00
						6473753.38	2299940.18	8.00	0.00
						6473754.66	2299939.14	8.00	0.00
						6473755.75	2299937.90	8.00	0.00
						6473756.63	2299936.50	8.00	0.00
						6473799.05	2299854.14	8.00	0.00
						6473799.55	2299852.98	8.00	0.00
						6473799.84	2299852.04	8.00	0.00
						6473817.20	2299784.34	8.00	0.00
						6473817.36	2299783.59	8.00	0.00
						6473817.47	2299782.83	8.00	0.00
						6473827.89	2299676.93	8.00	0.00
						6473827.93	2299676.01	8.00	0.00
						6473829.61	2299397.74	8.00	0.00
						6474105.63	2299397.43	8.00	0.00
CA32	CA32	8.00	r			6477056.61	2299375.23	8.00	0.00
						6477054.88	2299375.08	8.00	0.00
						6477054.66	2299375.08	8.00	0.00
						6476829.33	2299380.04	8.00	0.00
						6476827.69	2299380.21	8.00	0.00
						6476826.10	2299380.65	8.00	0.00
						6476824.60	2299381.35	8.00	0.00
						6476823.24	2299382.28	8.00	0.00
						6476822.05	2299383.42	8.00	0.00
						6476821.06	2299384.75	8.00	0.00
						6476820.31	2299386.22	8.00	0.00
						6476819.81	2299387.79	8.00	0.00
						6476819.57	2299389.43	8.00	0.00
						6476819.61	2299391.08	8.00	0.00
						6476819.91	2299392.70	8.00	0.00
						6476820.48	2299394.25	8.00	0.00
						6476821.30	2299395.69	8.00	0.00
						6476822.34	2299396.97	8.00	0.00
						6476823.58	2299398.06	8.00	0.00
						6476824.99	2299398.93	8.00	0.00
						6476826.51	2299399.56	8.00	0.00
						6476828.12	2299399.93	8.00	0.00
						6476829.77	2299400.03	8.00	0.00
						6477055.10	2299395.08	8.00	0.00
						6477056.82	2299394.89	8.00	0.00
						6477058.48	2299394.41	8.00	0.00
						6477060.03	2299393.65	8.00	0.00
						6477061.43	2299392.63	8.00	0.00
						6477062.64	2299391.39	8.00	0.00
						6477063.61	2299389.96	8.00	0.00
						6477064.32	2299388.38	8.00	0.00
						6477064.74	2299386.70	8.00	0.00
						6477064.88	2299384.98	8.00	0.00
						6477064.71	2299383.25	8.00	0.00
						6477064.25	2299381.59	8.00	0.00
						6477063.50	2299380.02	8.00	0.00
						6477062.50	2299378.61	8.00	0.00
						6477061.27	2299377.39	8.00	0.00
						6477059.85	2299376.41	8.00	0.00
						6477058.28	2299375.68	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
CA33	CA33	8.00	r			6476843.60	2299674.36	8.00	0.00
						6476841.95	2299674.32	8.00	0.00
						6476840.31	2299674.56	8.00	0.00
						6476838.74	2299675.07	8.00	0.00
						6476837.27	2299675.82	8.00	0.00
						6476835.95	2299676.81	8.00	0.00
						6476834.81	2299678.00	8.00	0.00
						6476833.88	2299679.37	8.00	0.00
						6476833.18	2299680.87	8.00	0.00
						6476832.74	2299682.46	8.00	0.00
						6476832.57	2299684.10	8.00	0.00
						6476832.68	2299685.75	8.00	0.00
						6476833.05	2299687.36	8.00	0.00
						6476833.68	2299688.88	8.00	0.00
						6476834.56	2299690.28	8.00	0.00
						6476835.65	2299691.52	8.00	0.00
						6476836.93	2299692.56	8.00	0.00
						6476838.37	2299693.38	8.00	0.00
						6476839.92	2299693.95	8.00	0.00
						6476841.54	2299694.25	8.00	0.00
						6477053.85	2299716.21	8.00	0.00
						6477055.50	2299716.24	8.00	0.00
						6477057.13	2299716.00	8.00	0.00
						6477058.71	2299715.50	8.00	0.00
						6477060.17	2299714.74	8.00	0.00
						6477061.50	2299713.75	8.00	0.00
						6477062.64	2299712.56	8.00	0.00
						6477063.57	2299711.20	8.00	0.00
						6477064.27	2299709.70	8.00	0.00
						6477064.70	2299708.11	8.00	0.00
						6477064.87	2299706.46	8.00	0.00
						6477064.77	2299704.81	8.00	0.00
						6477064.40	2299703.21	8.00	0.00
						6477063.77	2299701.68	8.00	0.00
						6477062.89	2299700.28	8.00	0.00
						6477061.80	2299699.04	8.00	0.00
						6477060.52	2299698.00	8.00	0.00
						6477059.08	2299697.19	8.00	0.00
						6477057.53	2299696.62	8.00	0.00
						6477055.91	2299696.31	8.00	0.00
CA34	CA34	8.00	r			6476792.06	2299958.28	8.00	0.00
						6476790.33	2299958.16	8.00	0.00
						6476788.60	2299958.34	8.00	0.00
						6476786.93	2299958.81	8.00	0.00
						6476785.36	2299959.57	8.00	0.00
						6476783.95	2299960.59	8.00	0.00
						6476782.74	2299961.84	8.00	0.00
						6476781.76	2299963.27	8.00	0.00
						6476781.05	2299964.86	8.00	0.00
						6476780.62	2299966.54	8.00	0.00
						6476780.49	2299968.28	8.00	0.00
						6476780.66	2299970.01	8.00	0.00
						6476781.13	2299971.68	8.00	0.00
						6476781.88	2299973.25	8.00	0.00
						6476782.89	2299974.66	8.00	0.00
						6476784.13	2299975.88	8.00	0.00
						6476785.57	2299976.86	8.00	0.00
						6476787.15	2299977.58	8.00	0.00
						6476788.83	2299978.02	8.00	0.00
						6476983.86	2300009.10	8.00	0.00
						6476985.59	2300009.23	8.00	0.00
						6476987.32	2300009.05	8.00	0.00
						6476988.99	2300008.57	8.00	0.00
						6476990.56	2300007.81	8.00	0.00
						6476991.97	2300006.80	8.00	0.00
						6476993.18	2300005.55	8.00	0.00
						6476994.16	2300004.11	8.00	0.00
						6476994.87	2300002.53	8.00	0.00
						6476995.30	2300000.84	8.00	0.00
						6476995.43	2299999.11	8.00	0.00
						6476995.26	2299997.38	8.00	0.00
						6476994.79	2299995.70	8.00	0.00
						6476994.04	2299994.14	8.00	0.00
						6476993.03	2299992.72	8.00	0.00
						6476991.79	2299991.51	8.00	0.00
						6476990.35	2299990.52	8.00	0.00
						6476988.77	2299989.80	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6476987.09	2299989.37	8.00	0.00
CA35	CA35	8.00	r			6474479.72	2301710.91	8.00	0.00
						6474478.32	2301710.77	8.00	0.00
						6474476.91	2301710.82	8.00	0.00
						6474475.52	2301711.07	8.00	0.00
						6474474.18	2301711.52	8.00	0.00
						6474292.83	2301786.13	8.00	0.00
						6474291.35	2301786.88	8.00	0.00
						6474290.03	2301787.87	8.00	0.00
						6474288.88	2301789.06	8.00	0.00
						6474287.95	2301790.42	8.00	0.00
						6474287.25	2301791.92	8.00	0.00
						6474286.81	2301793.51	8.00	0.00
						6474286.63	2301795.15	8.00	0.00
						6474286.73	2301796.80	8.00	0.00
						6474287.10	2301798.41	8.00	0.00
						6474287.73	2301799.94	8.00	0.00
						6474288.60	2301801.34	8.00	0.00
						6474289.69	2301802.58	8.00	0.00
						6474290.97	2301803.62	8.00	0.00
						6474292.40	2301804.44	8.00	0.00
						6474293.95	2301805.01	8.00	0.00
						6474295.57	2301805.32	8.00	0.00
						6474297.23	2301805.36	8.00	0.00
						6474298.86	2301805.13	8.00	0.00
						6474300.43	2301804.63	8.00	0.00
						6474481.79	2301730.01	8.00	0.00
						6474483.32	2301729.22	8.00	0.00
						6474484.69	2301728.19	8.00	0.00
						6474485.86	2301726.93	8.00	0.00
						6474486.80	2301725.50	8.00	0.00
						6474487.48	2301723.92	8.00	0.00
						6474487.88	2301722.26	8.00	0.00
						6474487.99	2301720.54	8.00	0.00
						6474487.80	2301718.84	8.00	0.00
						6474487.33	2301717.19	8.00	0.00
						6474486.58	2301715.64	8.00	0.00
						6474485.58	2301714.25	8.00	0.00
						6474484.35	2301713.05	8.00	0.00
						6474482.94	2301712.08	8.00	0.00
						6474481.38	2301711.36	8.00	0.00
CA36	CA36	8.00	r			6484197.38	2297561.07	8.00	0.00
						6484195.65	2297560.92	8.00	0.00
						6484193.93	2297561.06	8.00	0.00
						6484192.25	2297561.51	8.00	0.00
						6484190.68	2297562.24	8.00	0.00
						6484189.25	2297563.23	8.00	0.00
						6484188.02	2297564.45	8.00	0.00
						6484187.02	2297565.87	8.00	0.00
						6484186.27	2297567.43	8.00	0.00
						6484185.81	2297569.11	8.00	0.00
						6484185.65	2297570.83	8.00	0.00
						6484185.78	2297572.56	8.00	0.00
						6484186.22	2297574.24	8.00	0.00
						6484251.57	2297759.42	8.00	0.00
						6484311.49	2297920.95	8.00	0.00
						6484311.96	2297922.03	8.00	0.00
						6484475.97	2298242.23	8.00	0.00
						6484567.05	2298432.21	8.00	0.00
						6484567.41	2298432.89	8.00	0.00
						6484568.39	2298434.29	8.00	0.00
						6484620.48	2298496.80	8.00	0.00
						6484621.48	2298497.84	8.00	0.00
						6484622.62	2298498.72	8.00	0.00
						6484623.87	2298499.43	8.00	0.00
						6484722.83	2298546.30	8.00	0.00
						6484724.32	2298546.86	8.00	0.00
						6484725.87	2298547.19	8.00	0.00
						6484809.21	2298557.60	8.00	0.00
						6484810.40	2298557.68	8.00	0.00
						6485409.66	2298560.23	8.00	0.00
						6485411.40	2298560.08	8.00	0.00
						6485413.08	2298559.63	8.00	0.00
						6485414.66	2298558.90	8.00	0.00
						6485416.09	2298557.91	8.00	0.00
						6485417.33	2298556.68	8.00	0.00
						6485418.33	2298555.25	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6485419.07	2298553.68	8.00	0.00
						6485419.53	2298551.99	8.00	0.00
						6485419.69	2298550.26	8.00	0.00
						6485419.54	2298548.52	8.00	0.00
						6485419.09	2298546.84	8.00	0.00
						6485418.36	2298545.26	8.00	0.00
						6485417.37	2298543.83	8.00	0.00
						6485416.14	2298542.59	8.00	0.00
						6485414.72	2298541.59	8.00	0.00
						6485413.14	2298540.85	8.00	0.00
						6485411.46	2298540.39	8.00	0.00
						6485409.73	2298540.23	8.00	0.00
						6484811.09	2298537.68	8.00	0.00
						6484729.94	2298527.54	8.00	0.00
						6484634.43	2298482.29	8.00	0.00
						6484584.55	2298422.44	8.00	0.00
						6484493.94	2298233.46	8.00	0.00
						6484493.83	2298233.23	8.00	0.00
						6484330.03	2297913.44	8.00	0.00
						6484270.37	2297752.61	8.00	0.00
						6484205.06	2297567.54	8.00	0.00
						6484204.45	2297566.17	8.00	0.00
						6484203.64	2297564.91	8.00	0.00
						6484202.65	2297563.78	8.00	0.00
						6484201.50	2297562.81	8.00	0.00
						6484200.22	2297562.02	8.00	0.00
						6484198.84	2297561.44	8.00	0.00
CA37	CA37	8.00	r			6488442.85	2292321.15	8.00	0.00
						6488441.12	2292321.00	8.00	0.00
						6488439.39	2292321.15	8.00	0.00
						6488437.72	2292321.59	8.00	0.00
						6488436.14	2292322.32	8.00	0.00
						6488434.72	2292323.31	8.00	0.00
						6488433.48	2292324.54	8.00	0.00
						6488432.48	2292325.95	8.00	0.00
						6488431.74	2292327.52	8.00	0.00
						6488431.28	2292329.19	8.00	0.00
						6488431.11	2292330.92	8.00	0.00
						6488426.77	2292888.69	8.00	0.00
						6488426.92	2292890.42	8.00	0.00
						6488427.36	2292892.10	8.00	0.00
						6488428.09	2292893.69	8.00	0.00
						6488429.08	2292895.12	8.00	0.00
						6488430.31	2292896.35	8.00	0.00
						6488431.73	2292897.36	8.00	0.00
						6488433.30	2292898.10	8.00	0.00
						6488434.98	2292898.56	8.00	0.00
						6488436.72	2292898.72	8.00	0.00
						6488438.45	2292898.58	8.00	0.00
						6488440.14	2292898.14	8.00	0.00
						6488441.72	2292897.42	8.00	0.00
						6488443.15	2292896.43	8.00	0.00
						6488444.39	2292895.21	8.00	0.00
						6488445.40	2292893.79	8.00	0.00
						6488446.15	2292892.21	8.00	0.00
						6488446.61	2292890.54	8.00	0.00
						6488446.77	2292888.80	8.00	0.00
						6488451.11	2292331.04	8.00	0.00
						6488451.00	2292329.49	8.00	0.00
						6488450.65	2292327.97	8.00	0.00
						6488450.06	2292326.53	8.00	0.00
						6488449.26	2292325.20	8.00	0.00
						6488448.27	2292324.01	8.00	0.00
						6488447.10	2292322.99	8.00	0.00
						6488445.78	2292322.16	8.00	0.00
						6488444.36	2292321.54	8.00	0.00
CA41	CA41	8.00	r			6489456.25	2291574.66	8.00	0.00
						6489454.54	2291574.51	8.00	0.00
						6489452.82	2291574.65	8.00	0.00
						6489451.16	2291575.09	8.00	0.00
						6489449.59	2291575.81	8.00	0.00
						6489448.17	2291576.78	8.00	0.00
						6489446.94	2291577.98	8.00	0.00
						6489445.93	2291579.38	8.00	0.00
						6489445.18	2291580.92	8.00	0.00
						6489444.70	2291582.58	8.00	0.00
						6489444.52	2291584.29	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6489430.25	2292229.87	8.00	0.00
						6489430.25	2292230.09	8.00	0.00
						6489430.25	2292787.35	8.00	0.00
						6489427.64	2293323.55	8.00	0.00
						6489419.84	2293471.75	8.00	0.00
						6489419.83	2293471.97	8.00	0.00
						6489417.23	2293557.91	8.00	0.00
						6489417.33	2293559.65	8.00	0.00
						6489417.73	2293561.35	8.00	0.00
						6489418.42	2293562.95	8.00	0.00
						6489419.37	2293564.41	8.00	0.00
						6489420.57	2293565.67	8.00	0.00
						6489421.97	2293566.72	8.00	0.00
						6489423.52	2293567.50	8.00	0.00
						6489425.19	2293568.00	8.00	0.00
						6489426.92	2293568.21	8.00	0.00
						6489428.66	2293568.11	8.00	0.00
						6489430.36	2293567.71	8.00	0.00
						6489431.96	2293567.02	8.00	0.00
						6489433.42	2293566.06	8.00	0.00
						6489434.69	2293564.87	8.00	0.00
						6489435.73	2293563.47	8.00	0.00
						6489436.51	2293561.92	8.00	0.00
						6489437.02	2293560.25	8.00	0.00
						6489437.22	2293558.52	8.00	0.00
						6489439.82	2293472.69	8.00	0.00
						6489447.63	2293324.36	8.00	0.00
						6489447.64	2293323.89	8.00	0.00
						6489450.25	2292787.40	8.00	0.00
						6489450.25	2292230.20	8.00	0.00
						6489464.51	2291584.73	8.00	0.00
						6489464.42	2291583.16	8.00	0.00
						6489464.09	2291581.62	8.00	0.00
						6489463.51	2291580.15	8.00	0.00
						6489462.72	2291578.80	8.00	0.00
						6489461.72	2291577.58	8.00	0.00
						6489460.54	2291576.53	8.00	0.00
						6489459.22	2291575.69	8.00	0.00
						6489457.77	2291575.06	8.00	0.00
CA44	CA44	8.00	r			6491614.93	2290876.37	8.00	0.00
						6491613.24	2290876.22	8.00	0.00
						6491611.56	2290876.36	8.00	0.00
						6491609.92	2290876.77	8.00	0.00
						6491608.37	2290877.46	8.00	0.00
						6491606.96	2290878.40	8.00	0.00
						6491605.73	2290879.56	8.00	0.00
						6491604.72	2290880.91	8.00	0.00
						6491603.94	2290882.42	8.00	0.00
						6491603.43	2290884.03	8.00	0.00
						6491603.20	2290885.71	8.00	0.00
						6491603.26	2290887.40	8.00	0.00
						6491636.25	2291165.18	8.00	0.00
						6491636.33	2291165.74	8.00	0.00
						6491636.60	2291166.87	8.00	0.00
						6491678.27	2291305.76	8.00	0.00
						6491678.76	2291307.07	8.00	0.00
						6491679.44	2291308.30	8.00	0.00
						6491745.41	2291410.73	8.00	0.00
						6491745.87	2291411.39	8.00	0.00
						6491931.61	2291654.42	8.00	0.00
						6492105.20	2291885.29	8.00	0.00
						6492105.47	2291885.63	8.00	0.00
						6492348.55	2292181.46	8.00	0.00
						6492349.78	2292182.69	8.00	0.00
						6492351.20	2292183.70	8.00	0.00
						6492352.77	2292184.44	8.00	0.00
						6492354.45	2292184.91	8.00	0.00
						6492356.18	2292185.07	8.00	0.00
						6492357.92	2292184.93	8.00	0.00
						6492359.60	2292184.49	8.00	0.00
						6492361.18	2292183.77	8.00	0.00
						6492362.62	2292182.78	8.00	0.00
						6492363.86	2292181.56	8.00	0.00
						6492364.87	2292180.14	8.00	0.00
						6492365.61	2292178.57	8.00	0.00
						6492366.08	2292176.89	8.00	0.00
						6492366.25	2292175.16	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6492366.11	2292173.42	8.00	0.00
						6492365.68	2292171.74	8.00	0.00
						6492364.96	2292170.16	8.00	0.00
						6492363.97	2292168.72	8.00	0.00
						6492121.05	2291873.10	8.00	0.00
						6491947.55	2291642.33	8.00	0.00
						6491762.01	2291399.57	8.00	0.00
						6491697.02	2291298.66	8.00	0.00
						6491656.01	2291161.96	8.00	0.00
						6491623.12	2290885.04	8.00	0.00
						6491622.81	2290883.48	8.00	0.00
						6491622.25	2290881.98	8.00	0.00
						6491621.46	2290880.60	8.00	0.00
						6491620.46	2290879.35	8.00	0.00
						6491619.27	2290878.28	8.00	0.00
						6491617.93	2290877.42	8.00	0.00
						6491616.47	2290876.78	8.00	0.00
CA48	CA48	8.00	r			6491913.54	2290876.37	8.00	0.00
						6491911.86	2290876.22	8.00	0.00
						6491910.18	2290876.35	8.00	0.00
						6491908.54	2290876.77	8.00	0.00
						6491907.00	2290877.45	8.00	0.00
						6491905.59	2290878.38	8.00	0.00
						6491904.37	2290879.54	8.00	0.00
						6491903.35	2290880.88	8.00	0.00
						6491902.57	2290882.38	8.00	0.00
						6491902.06	2290883.98	8.00	0.00
						6491901.82	2290885.65	8.00	0.00
						6491893.14	2291038.43	8.00	0.00
						6491893.16	2291039.86	8.00	0.00
						6491893.38	2291041.26	8.00	0.00
						6491893.80	2291042.62	8.00	0.00
						6491954.57	2291198.87	8.00	0.00
						6491955.23	2291200.25	8.00	0.00
						6491955.77	2291201.09	8.00	0.00
						6491995.70	2291256.64	8.00	0.00
						6491995.97	2291257.01	8.00	0.00
						6492153.91	2291456.60	8.00	0.00
						6492348.31	2291710.01	8.00	0.00
						6492528.86	2291946.12	8.00	0.00
						6492529.00	2291946.30	8.00	0.00
						6492733.87	2292201.51	8.00	0.00
						6492735.07	2292202.77	8.00	0.00
						6492736.48	2292203.80	8.00	0.00
						6492738.04	2292204.57	8.00	0.00
						6492739.71	2292205.06	8.00	0.00
						6492741.45	2292205.25	8.00	0.00
						6492743.19	2292205.13	8.00	0.00
						6492744.88	2292204.72	8.00	0.00
						6492746.47	2292204.02	8.00	0.00
						6492747.92	2292203.05	8.00	0.00
						6492749.18	2292201.84	8.00	0.00
						6492750.21	2292200.44	8.00	0.00
						6492750.98	2292198.87	8.00	0.00
						6492751.47	2292197.20	8.00	0.00
						6492751.66	2292195.47	8.00	0.00
						6492751.55	2292193.73	8.00	0.00
						6492751.13	2292192.03	8.00	0.00
						6492750.43	2292190.44	8.00	0.00
						6492749.46	2292188.99	8.00	0.00
						6492544.67	2291933.87	8.00	0.00
						6492364.19	2291697.85	8.00	0.00
						6492169.69	2291444.31	8.00	0.00
						6492011.80	2291244.78	8.00	0.00
						6491972.75	2291190.44	8.00	0.00
						6491913.23	2291037.40	8.00	0.00
						6491921.79	2290886.79	8.00	0.00
						6491921.75	2290885.18	8.00	0.00
						6491921.45	2290883.59	8.00	0.00
						6491920.90	2290882.07	8.00	0.00
						6491920.12	2290880.67	8.00	0.00
						6491919.12	2290879.40	8.00	0.00
						6491917.93	2290878.31	8.00	0.00
						6491916.57	2290877.43	8.00	0.00
						6491915.10	2290876.78	8.00	0.00
CA51	CA51	8.00	r			6490773.56	2289787.83	8.00	0.00
						6490771.87	2289787.68	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6490770.17	2289787.82	8.00	0.00
						6490768.52	2289788.25	8.00	0.00
						6490766.96	2289788.95	8.00	0.00
						6490765.55	2289789.90	8.00	0.00
						6490764.32	2289791.08	8.00	0.00
						6490763.31	2289792.45	8.00	0.00
						6490762.54	2289793.98	8.00	0.00
						6490762.05	2289795.61	8.00	0.00
						6490761.84	2289797.30	8.00	0.00
						6490761.92	2289799.00	8.00	0.00
						6490762.28	2289800.67	8.00	0.00
						6490762.93	2289802.24	8.00	0.00
						6490763.83	2289803.69	8.00	0.00
						6490764.97	2289804.96	8.00	0.00
						6490766.31	2289806.02	8.00	0.00
						6491067.46	2290005.48	8.00	0.00
						6491310.04	2290190.89	8.00	0.00
						6491411.75	2290277.08	8.00	0.00
						6491495.53	2290371.12	8.00	0.00
						6491553.56	2290482.06	8.00	0.00
						6491587.75	2290593.17	8.00	0.00
						6491605.00	2290736.38	8.00	0.00
						6491605.36	2290738.08	8.00	0.00
						6491606.01	2290739.70	8.00	0.00
						6491606.93	2290741.18	8.00	0.00
						6491608.09	2290742.48	8.00	0.00
						6491609.46	2290743.55	8.00	0.00
						6491611.00	2290744.38	8.00	0.00
						6491612.66	2290744.92	8.00	0.00
						6491614.38	2290745.17	8.00	0.00
						6491616.12	2290745.11	8.00	0.00
						6491617.83	2290744.75	8.00	0.00
						6491619.45	2290744.10	8.00	0.00
						6491620.93	2290743.18	8.00	0.00
						6491622.23	2290742.02	8.00	0.00
						6491623.30	2290740.65	8.00	0.00
						6491624.12	2290739.11	8.00	0.00
						6491624.67	2290737.45	8.00	0.00
						6491624.91	2290735.73	8.00	0.00
						6491624.86	2290733.98	8.00	0.00
						6491607.49	2290589.89	8.00	0.00
						6491607.41	2290589.35	8.00	0.00
						6491607.12	2290588.14	8.00	0.00
						6491572.40	2290475.29	8.00	0.00
						6491572.24	2290474.82	8.00	0.00
						6491571.71	2290473.60	8.00	0.00
						6491512.68	2290360.75	8.00	0.00
						6491512.04	2290359.70	8.00	0.00
						6491511.28	2290358.74	8.00	0.00
						6491426.21	2290263.25	8.00	0.00
						6491425.21	2290262.27	8.00	0.00
						6491322.76	2290175.45	8.00	0.00
						6491322.39	2290175.15	8.00	0.00
						6491079.33	2289989.39	8.00	0.00
						6491078.78	2289989.00	8.00	0.00
						6490777.35	2289789.34	8.00	0.00
						6490776.16	2289788.67	8.00	0.00
						6490774.89	2289788.16	8.00	0.00
CA55	CA55	8.00	r			6491509.07	2288423.79	8.00	0.00
						6491575.36	2288398.14	8.00	0.00
						6491666.34	2288385.44	8.00	0.00
						6491684.55	2288387.26	8.00	0.00
						6491727.17	2288413.64	8.00	0.00
						6491763.00	2288449.48	8.00	0.00
						6491791.53	2288482.08	8.00	0.00
						6491827.46	2288634.26	8.00	0.00
						6491823.34	2288673.37	8.00	0.00
						6491808.22	2288751.15	8.00	0.00
						6491808.05	2288752.98	8.00	0.00
						6491808.05	2288826.76	8.00	0.00
						6491808.09	2288827.67	8.00	0.00
						6491812.43	2288875.41	8.00	0.00
						6491812.53	2288876.15	8.00	0.00
						6491819.05	2288915.26	8.00	0.00
						6491819.49	2288916.94	8.00	0.00
						6491820.22	2288918.52	8.00	0.00
						6491821.21	2288919.95	8.00	0.00

Name	ID	Height		Coordinates			
		Begin	End	x	y	z	Ground
		(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
				6491822.43	2288921.19	8.00	0.00
				6491823.85	2288922.20	8.00	0.00
				6491825.42	2288922.94	8.00	0.00
				6491827.10	2288923.40	8.00	0.00
				6491828.84	2288923.57	8.00	0.00
				6491830.57	2288923.43	8.00	0.00
				6491832.26	2288922.99	8.00	0.00
				6491833.84	2288922.26	8.00	0.00
				6491835.27	2288921.28	8.00	0.00
				6491836.51	2288920.06	8.00	0.00
				6491837.52	2288918.64	8.00	0.00
				6491838.27	2288917.07	8.00	0.00
				6491838.74	2288915.39	8.00	0.00
				6491838.90	2288913.66	8.00	0.00
				6491838.77	2288911.92	8.00	0.00
				6491832.32	2288873.23	8.00	0.00
				6491828.05	2288826.31	8.00	0.00
				6491828.05	2288753.94	8.00	0.00
				6491843.08	2288676.67	8.00	0.00
				6491843.19	2288675.90	8.00	0.00
				6491847.53	2288634.66	8.00	0.00
				6491847.56	2288632.98	8.00	0.00
				6491847.32	2288631.32	8.00	0.00
				6491810.42	2288475.07	8.00	0.00
				6491809.94	2288473.56	8.00	0.00
				6491809.22	2288472.14	8.00	0.00
				6491808.28	2288470.86	8.00	0.00
				6491777.84	2288436.06	8.00	0.00
				6491777.38	2288435.57	8.00	0.00
				6491740.49	2288398.68	8.00	0.00
				6491739.85	2288398.09	8.00	0.00
				6491738.68	2288397.25	8.00	0.00
				6491693.11	2288369.04	8.00	0.00
				6491691.76	2288368.34	8.00	0.00
				6491690.33	2288367.86	8.00	0.00
				6491688.84	2288367.59	8.00	0.00
				6491667.14	2288365.42	8.00	0.00
				6491666.14	2288365.37	8.00	0.00
				6491664.76	2288365.47	8.00	0.00
				6491571.45	2288378.49	8.00	0.00
				6491571.09	2288378.54	8.00	0.00
				6491569.31	2288379.03	8.00	0.00
				6491503.60	2288404.47	8.00	0.00
				6491388.27	2288406.60	8.00	0.00
				6491145.31	2288406.60	8.00	0.00
				6491143.57	2288406.76	8.00	0.00
				6491142.68	2288406.96	8.00	0.00
				6491094.94	2288419.98	8.00	0.00
				6491093.60	2288420.45	8.00	0.00
				6491092.34	2288421.10	8.00	0.00
				6491025.07	2288462.33	8.00	0.00
				6491023.86	2288463.20	8.00	0.00
				6491022.79	2288464.25	8.00	0.00
				6490975.04	2288518.50	8.00	0.00
				6490974.89	2288518.68	8.00	0.00
				6490974.05	2288519.85	8.00	0.00
				6490945.83	2288565.42	8.00	0.00
				6490945.68	2288565.68	8.00	0.00
				6490945.01	2288567.07	8.00	0.00
				6490918.93	2288634.44	8.00	0.00
				6490918.45	2288636.22	8.00	0.00
				6490918.30	2288637.73	8.00	0.00
				6490911.79	2288922.02	8.00	0.00
				6490911.79	2288922.25	8.00	0.00
				6490911.79	2288922.56	8.00	0.00
				6490918.50	2289134.01	8.00	0.00
				6490918.69	2289135.66	8.00	0.00
				6490919.15	2289137.24	8.00	0.00
				6490919.86	2289138.73	8.00	0.00
				6490920.81	2289140.09	8.00	0.00
				6490921.96	2289141.27	8.00	0.00
				6490923.30	2289142.24	8.00	0.00
				6490924.77	2289142.98	8.00	0.00
				6490926.35	2289143.46	8.00	0.00
				6490927.99	2289143.68	8.00	0.00
				6490929.64	2289143.63	8.00	0.00
				6490931.26	2289143.31	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6490932.80	2289142.72	8.00	0.00
						6490934.23	2289141.89	8.00	0.00
						6490935.50	2289140.84	8.00	0.00
						6490936.58	2289139.59	8.00	0.00
						6490937.44	2289138.18	8.00	0.00
						6490938.05	2289136.64	8.00	0.00
						6490938.41	2289135.03	8.00	0.00
						6490938.49	2289133.38	8.00	0.00
						6490931.79	2288922.20	8.00	0.00
						6490938.25	2288639.94	8.00	0.00
						6490963.33	2288575.16	8.00	0.00
						6490990.61	2288531.09	8.00	0.00
						6491036.80	2288478.60	8.00	0.00
						6491101.58	2288438.90	8.00	0.00
						6491146.65	2288426.60	8.00	0.00
						6491388.46	2288426.60	8.00	0.00
						6491505.74	2288424.43	8.00	0.00
						6491507.29	2288424.28	8.00	0.00
CA58	CA58	8.00	r			6491619.32	2288707.86	8.00	0.00
						6491617.58	2288707.71	8.00	0.00
						6491615.85	2288707.86	8.00	0.00
						6491614.16	2288708.31	8.00	0.00
						6491612.58	2288709.05	8.00	0.00
						6491611.16	2288710.05	8.00	0.00
						6491609.92	2288711.29	8.00	0.00
						6491608.92	2288712.71	8.00	0.00
						6491608.19	2288714.29	8.00	0.00
						6491607.74	2288715.98	8.00	0.00
						6491607.59	2288717.71	8.00	0.00
						6491607.74	2288719.45	8.00	0.00
						6491608.19	2288721.13	8.00	0.00
						6491608.93	2288722.71	8.00	0.00
						6491609.93	2288724.14	8.00	0.00
						6491611.16	2288725.37	8.00	0.00
						6491612.59	2288726.37	8.00	0.00
						6491614.17	2288727.11	8.00	0.00
						6491615.85	2288727.56	8.00	0.00
						6491816.32	2288762.82	8.00	0.00
						6491818.06	2288762.98	8.00	0.00
						6491819.79	2288762.82	8.00	0.00
						6491821.48	2288762.37	8.00	0.00
						6491823.06	2288761.63	8.00	0.00
						6491824.48	2288760.63	8.00	0.00
						6491825.72	2288759.40	8.00	0.00
						6491826.71	2288757.97	8.00	0.00
						6491827.45	2288756.39	8.00	0.00
						6491827.90	2288754.71	8.00	0.00
						6491828.05	2288752.97	8.00	0.00
						6491827.90	2288751.24	8.00	0.00
						6491827.45	2288749.55	8.00	0.00
						6491826.71	2288747.97	8.00	0.00
						6491825.71	2288746.55	8.00	0.00
						6491824.48	2288745.31	8.00	0.00
						6491823.05	2288744.31	8.00	0.00
						6491821.47	2288743.58	8.00	0.00
						6491819.79	2288743.13	8.00	0.00
CA61	CA61	8.00	r			6493085.61	2290584.49	8.00	0.00
						6493083.79	2290584.34	8.00	0.00
						6492717.92	2290590.92	8.00	0.00
						6492716.19	2290591.10	8.00	0.00
						6492714.52	2290591.58	8.00	0.00
						6492712.96	2290592.34	8.00	0.00
						6492711.55	2290593.36	8.00	0.00
						6492710.34	2290594.61	8.00	0.00
						6492709.37	2290596.04	8.00	0.00
						6492708.66	2290597.63	8.00	0.00
						6492708.23	2290599.32	8.00	0.00
						6492708.10	2290601.05	8.00	0.00
						6492708.28	2290602.78	8.00	0.00
						6492708.75	2290604.45	8.00	0.00
						6492709.50	2290606.02	8.00	0.00
						6492710.52	2290607.43	8.00	0.00
						6492711.76	2290608.64	8.00	0.00
						6492713.19	2290609.63	8.00	0.00
						6492714.78	2290610.34	8.00	0.00
						6492716.46	2290610.78	8.00	0.00
						6492718.19	2290610.91	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6493084.06	2290604.34	8.00	0.00
						6493085.78	2290604.16	8.00	0.00
						6493087.45	2290603.68	8.00	0.00
						6493089.00	2290602.92	8.00	0.00
						6493090.41	2290601.91	8.00	0.00
						6493091.62	2290600.67	8.00	0.00
						6493092.59	2290599.24	8.00	0.00
						6493093.31	2290597.66	8.00	0.00
						6493093.74	2290595.98	8.00	0.00
						6493093.88	2290594.25	8.00	0.00
						6493093.71	2290592.53	8.00	0.00
						6493093.25	2290590.86	8.00	0.00
						6493092.51	2290589.29	8.00	0.00
						6493091.51	2290587.88	8.00	0.00
						6493090.28	2290586.66	8.00	0.00
						6493088.86	2290585.67	8.00	0.00
						6493087.29	2290584.94	8.00	0.00
CA63	CA63	8.00	r			6492470.05	2288332.09	8.00	0.00
						6492468.44	2288331.94	8.00	0.00
						6492466.82	2288332.05	8.00	0.00
						6492465.25	2288332.42	8.00	0.00
						6492463.75	2288333.04	8.00	0.00
						6492462.38	2288333.89	8.00	0.00
						6492461.16	2288334.95	8.00	0.00
						6492412.66	2288384.66	8.00	0.00
						6492411.60	2288385.95	8.00	0.00
						6492410.77	2288387.39	8.00	0.00
						6492393.40	2288424.28	8.00	0.00
						6492392.86	2288425.73	8.00	0.00
						6492392.54	2288427.24	8.00	0.00
						6492392.46	2288428.79	8.00	0.00
						6492392.61	2288430.33	8.00	0.00
						6492422.97	2288592.96	8.00	0.00
						6492461.91	2288852.58	8.00	0.00
						6492468.41	2289131.81	8.00	0.00
						6492474.92	2290310.11	8.00	0.00
						6492475.08	2290311.84	8.00	0.00
						6492475.54	2290313.52	8.00	0.00
						6492476.28	2290315.09	8.00	0.00
						6492477.29	2290316.52	8.00	0.00
						6492478.53	2290317.74	8.00	0.00
						6492479.96	2290318.73	8.00	0.00
						6492481.54	2290319.46	8.00	0.00
						6492483.22	2290319.91	8.00	0.00
						6492484.96	2290320.05	8.00	0.00
						6492486.69	2290319.89	8.00	0.00
						6492488.37	2290319.43	8.00	0.00
						6492489.95	2290318.69	8.00	0.00
						6492491.37	2290317.69	8.00	0.00
						6492492.60	2290316.45	8.00	0.00
						6492493.59	2290315.02	8.00	0.00
						6492494.33	2290313.44	8.00	0.00
						6492494.77	2290311.76	8.00	0.00
						6492494.92	2290310.02	8.00	0.00
						6492488.41	2289131.52	8.00	0.00
						6492481.89	2288851.48	8.00	0.00
						6492481.79	2288850.23	8.00	0.00
						6492442.72	2288589.82	8.00	0.00
						6492442.67	2288589.51	8.00	0.00
						6492412.88	2288429.88	8.00	0.00
						6492428.15	2288397.43	8.00	0.00
						6492475.47	2288348.92	8.00	0.00
						6492476.53	2288347.63	8.00	0.00
						6492477.36	2288346.19	8.00	0.00
						6492477.94	2288344.63	8.00	0.00
						6492478.26	2288342.99	8.00	0.00
						6492478.29	2288341.32	8.00	0.00
						6492478.05	2288339.67	8.00	0.00
						6492477.54	2288338.09	8.00	0.00
						6492476.78	2288336.61	8.00	0.00
						6492475.77	2288335.28	8.00	0.00
						6492474.56	2288334.13	8.00	0.00
						6492473.18	2288333.20	8.00	0.00
						6492471.66	2288332.51	8.00	0.00
CA66	CA66	8.00	r			6491616.66	2290725.33	8.00	0.00
						6491614.94	2290725.18	8.00	0.00
						6491613.21	2290725.33	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6491611.54	2290725.77	8.00	0.00
						6491609.97	2290726.50	8.00	0.00
						6491608.54	2290727.48	8.00	0.00
						6491607.31	2290728.70	8.00	0.00
						6491606.31	2290730.11	8.00	0.00
						6491605.56	2290731.67	8.00	0.00
						6491605.10	2290733.34	8.00	0.00
						6491604.93	2290735.07	8.00	0.00
						6491603.19	2290886.16	8.00	0.00
						6491603.33	2290887.90	8.00	0.00
						6491603.77	2290889.58	8.00	0.00
						6491604.50	2290891.16	8.00	0.00
						6491605.49	2290892.60	8.00	0.00
						6491606.71	2290893.83	8.00	0.00
						6491608.13	2290894.84	8.00	0.00
						6491609.70	2290895.59	8.00	0.00
						6491611.37	2290896.06	8.00	0.00
						6491613.11	2290896.22	8.00	0.00
						6491614.84	2290896.08	8.00	0.00
						6491616.52	2290895.65	8.00	0.00
						6491618.11	2290894.93	8.00	0.00
						6491619.54	2290893.95	8.00	0.00
						6491620.79	2290892.73	8.00	0.00
						6491621.80	2290891.31	8.00	0.00
						6491622.55	2290889.74	8.00	0.00
						6491623.02	2290888.07	8.00	0.00
						6491623.19	2290886.34	8.00	0.00
						6491624.93	2290735.24	8.00	0.00
						6491624.82	2290733.69	8.00	0.00
						6491624.46	2290732.17	8.00	0.00
						6491623.88	2290730.73	8.00	0.00
						6491623.08	2290729.39	8.00	0.00
						6491622.08	2290728.20	8.00	0.00
						6491620.91	2290727.17	8.00	0.00
						6491619.60	2290726.34	8.00	0.00
						6491618.17	2290725.72	8.00	0.00
CA67	CA67	8.00	r			6496074.71	2291673.29	8.00	0.00
						6496073.00	2291673.14	8.00	0.00
						6496071.29	2291673.28	8.00	0.00
						6496069.62	2291673.72	8.00	0.00
						6496068.06	2291674.43	8.00	0.00
						6496066.64	2291675.40	8.00	0.00
						6496065.41	2291676.60	8.00	0.00
						6496064.40	2291677.99	8.00	0.00
						6496063.65	2291679.53	8.00	0.00
						6496063.17	2291681.18	8.00	0.00
						6496062.98	2291682.89	8.00	0.00
						6496063.08	2291684.60	8.00	0.00
						6496063.48	2291686.28	8.00	0.00
						6496064.15	2291687.85	8.00	0.00
						6496065.09	2291689.29	8.00	0.00
						6496282.29	2291967.50	8.00	0.00
						6496317.36	2292035.14	8.00	0.00
						6496322.39	2292110.62	8.00	0.00
						6496319.86	2292166.21	8.00	0.00
						6496216.00	2292537.51	8.00	0.00
						6496215.95	2292537.72	8.00	0.00
						6496138.02	2292841.64	8.00	0.00
						6496104.57	2292918.83	8.00	0.00
						6496055.74	2293019.05	8.00	0.00
						6495981.02	2293106.66	8.00	0.00
						6495980.15	2293107.86	8.00	0.00
						6495891.61	2293251.09	8.00	0.00
						6495891.45	2293251.35	8.00	0.00
						6495891.29	2293251.63	8.00	0.00
						6495742.86	2293529.28	8.00	0.00
						6495742.20	2293530.79	8.00	0.00
						6495741.80	2293532.39	8.00	0.00
						6495741.67	2293534.04	8.00	0.00
						6495741.82	2293535.69	8.00	0.00
						6495742.23	2293537.28	8.00	0.00
						6495742.90	2293538.79	8.00	0.00
						6495743.81	2293540.17	8.00	0.00
						6495744.94	2293541.38	8.00	0.00
						6495746.25	2293542.39	8.00	0.00
						6495747.70	2293543.17	8.00	0.00
						6495749.27	2293543.70	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6495750.90	2293543.96	8.00	0.00
						6495752.55	2293543.95	8.00	0.00
						6495754.18	2293543.67	8.00	0.00
						6495755.74	2293543.13	8.00	0.00
						6495757.19	2293542.33	8.00	0.00
						6495758.48	2293541.31	8.00	0.00
						6495759.60	2293540.09	8.00	0.00
						6495760.49	2293538.70	8.00	0.00
						6495908.78	2293261.34	8.00	0.00
						6495996.76	2293119.03	8.00	0.00
						6496071.81	2293031.03	8.00	0.00
						6496072.84	2293029.58	8.00	0.00
						6496073.17	2293028.95	8.00	0.00
						6496122.64	2292927.39	8.00	0.00
						6496122.83	2292926.99	8.00	0.00
						6496156.68	2292848.86	8.00	0.00
						6496156.91	2292848.31	8.00	0.00
						6496157.20	2292847.37	8.00	0.00
						6496235.29	2292542.79	8.00	0.00
						6496339.43	2292170.50	8.00	0.00
						6496339.65	2292169.54	8.00	0.00
						6496339.79	2292168.26	8.00	0.00
						6496342.39	2292110.97	8.00	0.00
						6496342.40	2292110.51	8.00	0.00
						6496342.38	2292109.85	8.00	0.00
						6496337.17	2292031.72	8.00	0.00
						6496336.99	2292030.36	8.00	0.00
						6496336.62	2292029.04	8.00	0.00
						6496336.07	2292027.78	8.00	0.00
						6496299.62	2291957.47	8.00	0.00
						6496299.40	2291957.08	8.00	0.00
						6496298.62	2291955.92	8.00	0.00
						6496080.86	2291676.99	8.00	0.00
						6496079.87	2291675.90	8.00	0.00
						6496078.74	2291674.97	8.00	0.00
						6496077.48	2291674.22	8.00	0.00
						6496076.13	2291673.65	8.00	0.00
CA70	CA70	8.00	r			6495690.91	2291876.71	8.00	0.00
						6495689.31	2291876.56	8.00	0.00
						6495687.71	2291876.66	8.00	0.00
						6495686.15	2291877.02	8.00	0.00
						6495684.66	2291877.63	8.00	0.00
						6495683.29	2291878.47	8.00	0.00
						6495682.08	2291879.51	8.00	0.00
						6495681.04	2291880.74	8.00	0.00
						6495680.21	2291882.12	8.00	0.00
						6495679.62	2291883.61	8.00	0.00
						6495679.27	2291885.17	8.00	0.00
						6495679.18	2291886.78	8.00	0.00
						6495679.34	2291888.37	8.00	0.00
						6495710.57	2292049.71	8.00	0.00
						6495718.02	2292099.38	8.00	0.00
						6495697.90	2292167.27	8.00	0.00
						6495557.58	2292551.86	8.00	0.00
						6495526.59	2292613.85	8.00	0.00
						6495526.13	2292614.91	8.00	0.00
						6495525.87	2292615.75	8.00	0.00
						6495515.45	2292654.81	8.00	0.00
						6495515.26	2292655.65	8.00	0.00
						6495515.11	2292657.39	8.00	0.00
						6495515.11	2292793.86	8.00	0.00
						6495443.09	2293020.21	8.00	0.00
						6495269.34	2293282.14	8.00	0.00
						6495144.29	2293477.52	8.00	0.00
						6495143.52	2293478.98	8.00	0.00
						6495143.00	2293480.55	8.00	0.00
						6495142.74	2293482.18	8.00	0.00
						6495142.76	2293483.83	8.00	0.00
						6495143.05	2293485.45	8.00	0.00
						6495143.60	2293487.01	8.00	0.00
						6495144.40	2293488.46	8.00	0.00
						6495145.42	2293489.75	8.00	0.00
						6495146.65	2293490.86	8.00	0.00
						6495148.04	2293491.75	8.00	0.00
						6495149.56	2293492.40	8.00	0.00
						6495151.16	2293492.79	8.00	0.00
						6495152.81	2293492.91	8.00	0.00

Name	ID	Height			Coordinates			
		Begin		End	x	y	z	Ground
		(ft)		(ft)	(ft)	(ft)	(ft)	(ft)
					6495154.46	2293492.76	8.00	0.00
					6495156.05	2293492.34	8.00	0.00
					6495157.56	2293491.66	8.00	0.00
					6495158.93	2293490.74	8.00	0.00
					6495160.14	2293489.61	8.00	0.00
					6495161.14	2293488.30	8.00	0.00
					6495286.10	2293293.06	8.00	0.00
					6495460.53	2293030.10	8.00	0.00
					6495461.21	2293028.90	8.00	0.00
					6495461.73	2293027.61	8.00	0.00
					6495534.64	2292798.44	8.00	0.00
					6495534.96	2292797.15	8.00	0.00
					6495535.11	2292795.41	8.00	0.00
					6495535.11	2292658.70	8.00	0.00
					6495544.93	2292621.89	8.00	0.00
					6495575.72	2292560.30	8.00	0.00
					6495576.17	2292559.25	8.00	0.00
					6495716.80	2292173.83	8.00	0.00
					6495716.99	2292173.25	8.00	0.00
					6495737.83	2292102.94	8.00	0.00
					6495738.14	2292101.52	8.00	0.00
					6495738.24	2292100.06	8.00	0.00
					6495738.13	2292098.61	8.00	0.00
					6495730.31	2292046.53	8.00	0.00
					6495730.26	2292046.19	8.00	0.00
					6495698.99	2291884.65	8.00	0.00
					6495698.52	2291883.00	8.00	0.00
					6495697.78	2291881.45	8.00	0.00
					6495696.77	2291880.05	8.00	0.00
					6495695.55	2291878.85	8.00	0.00
					6495694.13	2291877.87	8.00	0.00
					6495692.57	2291877.15	8.00	0.00
CA74	CA74	8.00	r		6496015.24	2290299.22	8.00	0.00
					6496013.56	2290299.07	8.00	0.00
					6496011.88	2290299.20	8.00	0.00
					6496010.24	2290299.62	8.00	0.00
					6496008.69	2290300.30	8.00	0.00
					6496007.29	2290301.24	8.00	0.00
					6496006.06	2290302.40	8.00	0.00
					6496005.04	2290303.75	8.00	0.00
					6496004.26	2290305.25	8.00	0.00
					6496003.75	2290306.86	8.00	0.00
					6496003.52	2290308.53	8.00	0.00
					6496003.57	2290310.22	8.00	0.00
					6496003.91	2290311.88	8.00	0.00
					6496004.52	2290313.46	8.00	0.00
					6496049.08	2290404.71	8.00	0.00
					6496051.54	2290456.55	8.00	0.00
					6496038.66	2290572.47	8.00	0.00
					6496005.13	2290732.41	8.00	0.00
					6495927.94	2290904.79	8.00	0.00
					6495816.92	2291046.80	8.00	0.00
					6495729.41	2291144.60	8.00	0.00
					6495522.22	2291285.60	8.00	0.00
					6495520.87	2291286.70	8.00	0.00
					6495519.73	2291288.02	8.00	0.00
					6495518.84	2291289.52	8.00	0.00
					6495518.22	2291291.15	8.00	0.00
					6495517.90	2291292.86	8.00	0.00
					6495517.87	2291294.60	8.00	0.00
					6495518.15	2291296.32	8.00	0.00
					6495518.73	2291297.97	8.00	0.00
					6495519.58	2291299.49	8.00	0.00
					6495520.68	2291300.84	8.00	0.00
					6495522.00	2291301.98	8.00	0.00
					6495523.50	2291302.87	8.00	0.00
					6495525.13	2291303.49	8.00	0.00
					6495526.84	2291303.81	8.00	0.00
					6495528.58	2291303.84	8.00	0.00
					6495530.31	2291303.56	8.00	0.00
					6495531.95	2291302.98	8.00	0.00
					6495533.47	2291302.13	8.00	0.00
					6495741.68	2291160.45	8.00	0.00
					6495742.48	2291159.84	8.00	0.00
					6495743.50	2291158.85	8.00	0.00
					6495832.04	2291059.89	8.00	0.00
					6495832.25	2291059.65	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6495832.47	2291059.38	8.00	0.00
						6495944.45	2290916.15	8.00	0.00
						6495945.23	2290914.99	8.00	0.00
						6495945.70	2290914.08	8.00	0.00
						6496023.82	2290739.60	8.00	0.00
						6496024.09	2290738.93	8.00	0.00
						6496024.48	2290737.56	8.00	0.00
						6496058.34	2290576.11	8.00	0.00
						6496058.40	2290575.79	8.00	0.00
						6496058.49	2290575.16	8.00	0.00
						6496071.51	2290457.97	8.00	0.00
						6496071.57	2290456.87	8.00	0.00
						6496071.56	2290456.39	8.00	0.00
						6496068.96	2290401.70	8.00	0.00
						6496068.80	2290400.36	8.00	0.00
						6496068.46	2290399.05	8.00	0.00
						6496067.95	2290397.79	8.00	0.00
						6496022.49	2290304.68	8.00	0.00
						6496021.70	2290303.33	8.00	0.00
						6496020.70	2290302.12	8.00	0.00
						6496019.52	2290301.08	8.00	0.00
						6496018.20	2290300.24	8.00	0.00
						6496016.76	2290299.61	8.00	0.00
CA76	CA76	8.00	r			6493424.55	2291930.88	8.00	0.00
						6493422.88	2291930.72	8.00	0.00
						6493421.20	2291930.86	8.00	0.00
						6493419.56	2291931.27	8.00	0.00
						6493418.02	2291931.95	8.00	0.00
						6493416.62	2291932.87	8.00	0.00
						6493415.39	2291934.02	8.00	0.00
						6493414.37	2291935.36	8.00	0.00
						6493413.59	2291936.86	8.00	0.00
						6493413.08	2291938.46	8.00	0.00
						6493412.83	2291940.12	8.00	0.00
						6493412.87	2291941.81	8.00	0.00
						6493413.20	2291943.46	8.00	0.00
						6493413.79	2291945.03	8.00	0.00
						6493414.64	2291946.49	8.00	0.00
						6493415.72	2291947.78	8.00	0.00
						6493417.01	2291948.86	8.00	0.00
						6493418.46	2291949.72	8.00	0.00
						6493576.02	2292026.05	8.00	0.00
						6493576.96	2292026.45	8.00	0.00
						6493577.95	2292026.75	8.00	0.00
						6493700.89	2292057.49	8.00	0.00
						6493774.41	2292115.03	8.00	0.00
						6493730.57	2292381.44	8.00	0.00
						6493701.47	2292426.71	8.00	0.00
						6493591.90	2292505.46	8.00	0.00
						6493590.83	2292506.35	8.00	0.00
						6493589.90	2292507.38	8.00	0.00
						6493589.11	2292508.52	8.00	0.00
						6493530.07	2292609.25	8.00	0.00
						6493529.46	2292610.49	8.00	0.00
						6493529.02	2292611.81	8.00	0.00
						6493528.77	2292613.17	8.00	0.00
						6493518.36	2292706.92	8.00	0.00
						6493518.30	2292708.02	8.00	0.00
						6493518.39	2292709.41	8.00	0.00
						6493573.95	2293105.25	8.00	0.00
						6493574.32	2293106.88	8.00	0.00
						6493574.96	2293108.44	8.00	0.00
						6493575.85	2293109.86	8.00	0.00
						6493607.10	2293151.52	8.00	0.00
						6493608.06	2293152.63	8.00	0.00
						6493609.17	2293153.57	8.00	0.00
						6493873.06	2293348.02	8.00	0.00
						6493874.46	2293348.89	8.00	0.00
						6493875.99	2293349.51	8.00	0.00
						6493877.60	2293349.87	8.00	0.00
						6493879.25	2293349.97	8.00	0.00
						6493880.90	2293349.79	8.00	0.00
						6493882.49	2293349.34	8.00	0.00
						6493883.98	2293348.64	8.00	0.00
						6493885.34	2293347.70	8.00	0.00
						6493886.52	2293346.55	8.00	0.00
						6493887.50	2293345.22	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6493888.25	2293343.74	8.00	0.00
						6493888.75	2293342.17	8.00	0.00
						6493888.97	2293340.53	8.00	0.00
						6493888.93	2293338.88	8.00	0.00
						6493888.62	2293337.26	8.00	0.00
						6493888.04	2293335.71	8.00	0.00
						6493887.21	2293334.28	8.00	0.00
						6493886.17	2293333.00	8.00	0.00
						6493884.92	2293331.92	8.00	0.00
						6493622.22	2293138.35	8.00	0.00
						6493593.40	2293099.92	8.00	0.00
						6493538.37	2292707.88	8.00	0.00
						6493548.42	2292617.49	8.00	0.00
						6493605.30	2292520.46	8.00	0.00
						6493714.69	2292441.84	8.00	0.00
						6493715.66	2292441.05	8.00	0.00
						6493716.52	2292440.14	8.00	0.00
						6493717.26	2292439.13	8.00	0.00
						6493748.51	2292390.52	8.00	0.00
						6493749.16	2292389.34	8.00	0.00
						6493749.65	2292388.09	8.00	0.00
						6493749.96	2292386.79	8.00	0.00
						6493795.11	2292112.43	8.00	0.00
						6493795.24	2292110.90	8.00	0.00
						6493795.14	2292109.38	8.00	0.00
						6493794.81	2292107.89	8.00	0.00
						6493794.25	2292106.47	8.00	0.00
						6493793.49	2292105.15	8.00	0.00
						6493792.53	2292103.96	8.00	0.00
						6493791.40	2292102.93	8.00	0.00
						6493711.54	2292040.43	8.00	0.00
						6493710.39	2292039.65	8.00	0.00
						6493709.13	2292039.03	8.00	0.00
						6493707.80	2292038.60	8.00	0.00
						6493583.81	2292007.60	8.00	0.00
						6493427.17	2291931.72	8.00	0.00
						6493426.24	2291931.33	8.00	0.00
CA77	CA77	8.00	r			6495131.33	2292716.16	8.00	0.00
						6495179.94	2292681.44	8.00	0.00
						6495181.05	2292680.52	8.00	0.00
						6495182.01	2292679.46	8.00	0.00
						6495182.81	2292678.26	8.00	0.00
						6495183.43	2292676.97	8.00	0.00
						6495273.71	2292447.80	8.00	0.00
						6495274.14	2292446.43	8.00	0.00
						6495274.37	2292445.00	8.00	0.00
						6495274.39	2292443.56	8.00	0.00
						6495274.20	2292442.14	8.00	0.00
						6495239.52	2292272.16	8.00	0.00
						6495208.29	2292088.26	8.00	0.00
						6495207.83	2292086.55	8.00	0.00
						6495207.53	2292085.81	8.00	0.00
						6495151.97	2291964.28	8.00	0.00
						6495151.57	2291963.49	8.00	0.00
						6494995.59	2291689.66	8.00	0.00
						6494951.49	2291587.90	8.00	0.00
						6494951.49	2291471.91	8.00	0.00
						6494951.41	2291470.62	8.00	0.00
						6494940.99	2291390.76	8.00	0.00
						6494940.64	2291389.15	8.00	0.00
						6494940.04	2291387.62	8.00	0.00
						6494939.19	2291386.20	8.00	0.00
						6494938.12	2291384.95	8.00	0.00
						6494936.85	2291383.89	8.00	0.00
						6494887.30	2291348.79	8.00	0.00
						6494885.88	2291347.95	8.00	0.00
						6494884.34	2291347.36	8.00	0.00
						6494882.72	2291347.02	8.00	0.00
						6494881.07	2291346.96	8.00	0.00
						6494879.43	2291347.17	8.00	0.00
						6494877.85	2291347.65	8.00	0.00
						6494876.37	2291348.38	8.00	0.00
						6494875.03	2291349.35	8.00	0.00
						6494873.87	2291350.52	8.00	0.00
						6494872.91	2291351.87	8.00	0.00
						6494872.19	2291353.35	8.00	0.00
						6494871.73	2291354.94	8.00	0.00

Name	ID	Height		Coordinates			
		Begin	End	x	y	z	Ground
		(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
				6494871.53	2291356.58	8.00	0.00
				6494871.60	2291358.23	8.00	0.00
				6494871.95	2291359.84	8.00	0.00
				6494872.55	2291361.38	8.00	0.00
				6494873.40	2291362.79	8.00	0.00
				6494874.48	2291364.05	8.00	0.00
				6494875.74	2291365.11	8.00	0.00
				6494921.72	2291397.68	8.00	0.00
				6494931.49	2291472.56	8.00	0.00
				6494931.49	2291589.97	8.00	0.00
				6494931.58	2291591.33	8.00	0.00
				6494931.86	2291592.66	8.00	0.00
				6494932.31	2291593.94	8.00	0.00
				6494977.45	2291698.11	8.00	0.00
				6494977.94	2291699.09	8.00	0.00
				6495133.97	2291973.00	8.00	0.00
				6495188.80	2292092.93	8.00	0.00
				6495219.83	2292275.70	8.00	0.00
				6495219.89	2292276.00	8.00	0.00
				6495254.02	2292443.23	8.00	0.00
				6495165.91	2292666.88	8.00	0.00
				6495122.31	2292698.02	8.00	0.00
				6495077.68	2292698.02	8.00	0.00
				6494886.25	2292499.76	8.00	0.00
				6494796.04	2292402.61	8.00	0.00
				6494795.13	2292401.74	8.00	0.00
				6494670.11	2292297.56	8.00	0.00
				6494669.54	2292297.12	8.00	0.00
				6494462.59	2292148.81	8.00	0.00
				6494414.96	2292080.76	8.00	0.00
				6494414.43	2292080.07	8.00	0.00
				6494414.10	2292079.69	8.00	0.00
				6494323.82	2291982.47	8.00	0.00
				6494322.92	2291981.61	8.00	0.00
				6494322.49	2291981.27	8.00	0.00
				6494141.93	2291845.86	8.00	0.00
				6494141.30	2291845.42	8.00	0.00
				6493797.55	2291626.67	8.00	0.00
				6493797.18	2291626.45	8.00	0.00
				6493796.08	2291625.90	8.00	0.00
				6493705.80	2291587.70	8.00	0.00
				6493704.70	2291587.31	8.00	0.00
				6493703.56	2291587.05	8.00	0.00
				6493702.40	2291586.93	8.00	0.00
				6493422.15	2291573.08	8.00	0.00
				6493420.50	2291573.13	8.00	0.00
				6493418.88	2291573.46	8.00	0.00
				6493417.33	2291574.05	8.00	0.00
				6493415.91	2291574.88	8.00	0.00
				6493414.64	2291575.94	8.00	0.00
				6493413.56	2291577.19	8.00	0.00
				6493412.71	2291578.60	8.00	0.00
				6493412.09	2291580.14	8.00	0.00
				6493411.74	2291581.75	8.00	0.00
				6493411.66	2291583.40	8.00	0.00
				6493411.85	2291585.04	8.00	0.00
				6493412.31	2291586.63	8.00	0.00
				6493413.02	2291588.12	8.00	0.00
				6493413.97	2291589.47	8.00	0.00
				6493415.13	2291590.64	8.00	0.00
				6493416.47	2291591.62	8.00	0.00
				6493417.94	2291592.35	8.00	0.00
				6493419.52	2291592.84	8.00	0.00
				6493421.16	2291593.05	8.00	0.00
				6493699.64	2291606.81	8.00	0.00
				6493787.52	2291643.99	8.00	0.00
				6494130.24	2291862.09	8.00	0.00
				6494309.77	2291996.74	8.00	0.00
				6494398.97	2292092.80	8.00	0.00
				6494447.19	2292161.68	8.00	0.00
				6494448.27	2292162.97	8.00	0.00
				6494449.55	2292164.07	8.00	0.00
				6494657.59	2292313.16	8.00	0.00
				6494781.82	2292416.69	8.00	0.00
				6494871.73	2292513.51	8.00	0.00
				6495066.24	2292714.97	8.00	0.00
				6495067.44	2292716.03	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6495068.80	2292716.89	8.00	0.00
						6495070.28	2292717.51	8.00	0.00
						6495071.84	2292717.90	8.00	0.00
						6495073.43	2292718.02	8.00	0.00
						6495125.52	2292718.02	8.00	0.00
						6495127.06	2292717.90	8.00	0.00
						6495128.57	2292717.55	8.00	0.00
						6495130.00	2292716.96	8.00	0.00
CA80	CA80	8.00	r			6495677.77	2291546.38	8.00	0.00
						6495676.36	2291546.23	8.00	0.00
						6495674.95	2291546.29	8.00	0.00
						6495673.56	2291546.54	8.00	0.00
						6495672.21	2291546.99	8.00	0.00
						6495670.95	2291547.62	8.00	0.00
						6495610.22	2291584.39	8.00	0.00
						6495608.82	2291585.41	8.00	0.00
						6495607.61	2291586.67	8.00	0.00
						6495606.64	2291588.11	8.00	0.00
						6495605.94	2291589.70	8.00	0.00
						6495605.52	2291591.38	8.00	0.00
						6495605.40	2291593.12	8.00	0.00
						6495605.58	2291594.84	8.00	0.00
						6495606.06	2291596.52	8.00	0.00
						6495606.82	2291598.08	8.00	0.00
						6495607.84	2291599.49	8.00	0.00
						6495609.08	2291600.70	8.00	0.00
						6495610.52	2291601.67	8.00	0.00
						6495612.10	2291602.38	8.00	0.00
						6495613.79	2291602.81	8.00	0.00
						6495615.52	2291602.94	8.00	0.00
						6495617.25	2291602.77	8.00	0.00
						6495618.92	2291602.30	8.00	0.00
						6495620.49	2291601.55	8.00	0.00
						6495681.22	2291564.78	8.00	0.00
						6495682.61	2291563.76	8.00	0.00
						6495683.81	2291562.52	8.00	0.00
						6495684.78	2291561.09	8.00	0.00
						6495685.48	2291559.51	8.00	0.00
						6495685.91	2291557.83	8.00	0.00
						6495686.04	2291556.11	8.00	0.00
						6495685.87	2291554.39	8.00	0.00
						6495685.40	2291552.73	8.00	0.00
						6495684.66	2291551.17	8.00	0.00
						6495683.66	2291549.76	8.00	0.00
						6495682.43	2291548.54	8.00	0.00
						6495681.01	2291547.55	8.00	0.00
						6495679.44	2291546.83	8.00	0.00
CA81	CA81	8.00	r			6495529.58	2291284.02	8.00	0.00
						6495528.14	2291283.87	8.00	0.00
						6495526.70	2291283.93	8.00	0.00
						6495525.28	2291284.20	8.00	0.00
						6495523.91	2291284.67	8.00	0.00
						6495522.62	2291285.34	8.00	0.00
						6495454.65	2291326.98	8.00	0.00
						6495453.25	2291328.02	8.00	0.00
						6495452.05	2291329.28	8.00	0.00
						6495451.09	2291330.74	8.00	0.00
						6495450.39	2291332.34	8.00	0.00
						6495449.99	2291334.03	8.00	0.00
						6495449.88	2291335.77	8.00	0.00
						6495450.08	2291337.50	8.00	0.00
						6495450.57	2291339.17	8.00	0.00
						6495451.35	2291340.73	8.00	0.00
						6495452.39	2291342.14	8.00	0.00
						6495453.65	2291343.34	8.00	0.00
						6495455.10	2291344.30	8.00	0.00
						6495456.70	2291344.99	8.00	0.00
						6495458.40	2291345.40	8.00	0.00
						6495460.14	2291345.51	8.00	0.00
						6495461.87	2291345.31	8.00	0.00
						6495463.54	2291344.81	8.00	0.00
						6495465.10	2291344.04	8.00	0.00
						6495533.07	2291302.39	8.00	0.00
						6495534.46	2291301.37	8.00	0.00
						6495535.65	2291300.12	8.00	0.00
						6495536.61	2291298.69	8.00	0.00
						6495537.31	2291297.11	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6495537.72	2291295.44	8.00	0.00
						6495537.84	2291293.72	8.00	0.00
						6495537.67	2291292.00	8.00	0.00
						6495537.20	2291290.34	8.00	0.00
						6495536.46	2291288.78	8.00	0.00
						6495535.46	2291287.38	8.00	0.00
						6495534.23	2291286.17	8.00	0.00
						6495532.81	2291285.19	8.00	0.00
						6495531.25	2291284.46	8.00	0.00
CA83	CA83	8.00	r			6494095.44	2289456.38	8.00	0.00
						6494093.77	2289456.23	8.00	0.00
						6494092.10	2289456.36	8.00	0.00
						6494090.47	2289456.76	8.00	0.00
						6494088.94	2289457.44	8.00	0.00
						6494087.54	2289458.35	8.00	0.00
						6494086.31	2289459.49	8.00	0.00
						6494085.29	2289460.82	8.00	0.00
						6494084.51	2289462.31	8.00	0.00
						6494083.98	2289463.90	8.00	0.00
						6494083.73	2289465.55	8.00	0.00
						6494083.75	2289467.23	8.00	0.00
						6494084.06	2289468.88	8.00	0.00
						6494149.17	2289705.86	8.00	0.00
						6494149.41	2289706.63	8.00	0.00
						6494149.56	2289707.01	8.00	0.00
						6494167.79	2289751.28	8.00	0.00
						6494168.46	2289752.62	8.00	0.00
						6494169.33	2289753.85	8.00	0.00
						6494170.37	2289754.93	8.00	0.00
						6494171.56	2289755.84	8.00	0.00
						6494172.87	2289756.57	8.00	0.00
						6494174.28	2289757.09	8.00	0.00
						6494175.74	2289757.39	8.00	0.00
						6494295.12	2289772.96	8.00	0.00
						6494450.23	2289806.57	8.00	0.00
						6494545.37	2289842.57	8.00	0.00
						6494656.38	2289899.36	8.00	0.00
						6494830.40	2290013.65	8.00	0.00
						6494830.98	2290014.00	8.00	0.00
						6494906.58	2290055.71	8.00	0.00
						6494907.99	2290056.35	8.00	0.00
						6494909.43	2290056.76	8.00	0.00
						6494998.88	2290074.89	8.00	0.00
						6495000.61	2290075.09	8.00	0.00
						6495002.35	2290074.98	8.00	0.00
						6495004.04	2290074.57	8.00	0.00
						6495005.64	2290073.88	8.00	0.00
						6495007.09	2290072.91	8.00	0.00
						6495008.36	2290071.71	8.00	0.00
						6495009.39	2290070.31	8.00	0.00
						6495010.17	2290068.75	8.00	0.00
						6495010.66	2290067.08	8.00	0.00
						6495010.86	2290065.35	8.00	0.00
						6495010.75	2290063.61	8.00	0.00
						6495010.34	2290061.91	8.00	0.00
						6495009.65	2290060.32	8.00	0.00
						6495008.69	2290058.86	8.00	0.00
						6495007.49	2290057.60	8.00	0.00
						6495006.08	2290056.56	8.00	0.00
						6495004.52	2290055.79	8.00	0.00
						6495002.85	2290055.29	8.00	0.00
						6494914.90	2290037.46	8.00	0.00
						6494841.06	2289996.72	8.00	0.00
						6494666.90	2289882.35	8.00	0.00
						6494666.41	2289882.05	8.00	0.00
						6494665.97	2289881.80	8.00	0.00
						6494553.99	2289824.51	8.00	0.00
						6494552.97	2289824.06	8.00	0.00
						6494456.56	2289787.58	8.00	0.00
						6494455.20	2289787.18	8.00	0.00
						6494298.95	2289753.33	8.00	0.00
						6494298.57	2289753.25	8.00	0.00
						6494298.12	2289753.19	8.00	0.00
						6494184.08	2289738.31	8.00	0.00
						6494168.29	2289699.97	8.00	0.00
						6494103.35	2289463.58	8.00	0.00
						6494102.80	2289462.07	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6494102.01	2289460.66	8.00	0.00
						6494101.01	2289459.40	8.00	0.00
						6494099.82	2289458.32	8.00	0.00
						6494098.47	2289457.44	8.00	0.00
						6494097.00	2289456.79	8.00	0.00
CA85	CA85	8.00	r			6476745.87	2275043.45	8.00	0.00
						6472047.32	2274974.64	8.00	0.00
						6472047.02	2274974.65	8.00	0.00
						6471703.36	2274982.46	8.00	0.00
						6470726.42	2274987.61	8.00	0.00
						6470713.50	2273661.63	8.00	0.00
						6470713.35	2273660.03	8.00	0.00
						6470712.95	2273658.47	8.00	0.00
						6470712.31	2273656.99	8.00	0.00
						6470711.43	2273655.64	8.00	0.00
						6470710.36	2273654.45	8.00	0.00
						6470709.10	2273653.44	8.00	0.00
						6470707.70	2273652.65	8.00	0.00
						6470706.19	2273652.09	8.00	0.00
						6470704.61	2273651.79	8.00	0.00
						6470703.00	2273651.74	8.00	0.00
						6470338.70	2273669.95	8.00	0.00
						6469911.86	2273667.35	8.00	0.00
						6469910.29	2273667.47	8.00	0.00
						6469908.76	2273667.83	8.00	0.00
						6469907.31	2273668.43	8.00	0.00
						6469905.97	2273669.25	8.00	0.00
						6469904.77	2273670.27	8.00	0.00
						6469903.75	2273671.47	8.00	0.00
						6469902.92	2273672.81	8.00	0.00
						6469902.32	2273674.26	8.00	0.00
						6469901.95	2273675.79	8.00	0.00
						6469901.83	2273677.36	8.00	0.00
						6469904.42	2274998.03	8.00	0.00
						6468070.02	2274988.01	8.00	0.00
						6468068.28	2274988.16	8.00	0.00
						6468066.60	2274988.60	8.00	0.00
						6468065.02	2274989.34	8.00	0.00
						6468063.59	2274990.33	8.00	0.00
						6468062.35	2274991.56	8.00	0.00
						6468061.35	2274992.98	8.00	0.00
						6468060.61	2274994.56	8.00	0.00
						6468060.15	2274996.24	8.00	0.00
						6468059.99	2274997.97	8.00	0.00
						6468060.14	2274999.71	8.00	0.00
						6468060.58	2275001.39	8.00	0.00
						6468061.31	2275002.97	8.00	0.00
						6468062.30	2275004.40	8.00	0.00
						6468063.53	2275005.64	8.00	0.00
						6468064.95	2275006.65	8.00	0.00
						6468066.52	2275007.39	8.00	0.00
						6468068.20	2275007.85	8.00	0.00
						6468069.94	2275008.01	8.00	0.00
						6469914.41	2275018.08	8.00	0.00
						6469915.98	2275017.96	8.00	0.00
						6469917.51	2275017.60	8.00	0.00
						6469918.96	2275017.00	8.00	0.00
						6469920.30	2275016.18	8.00	0.00
						6469921.50	2275015.16	8.00	0.00
						6469922.52	2275013.96	8.00	0.00
						6469923.35	2275012.62	8.00	0.00
						6469923.95	2275011.17	8.00	0.00
						6469924.31	2275009.64	8.00	0.00
						6469924.44	2275008.07	8.00	0.00
						6469921.85	2273687.41	8.00	0.00
						6470338.89	2273689.96	8.00	0.00
						6470339.42	2273689.94	8.00	0.00
						6470693.60	2273672.23	8.00	0.00
						6470706.52	2274997.76	8.00	0.00
						6470706.69	2274999.49	8.00	0.00
						6470707.15	2275001.16	8.00	0.00
						6470707.90	2275002.73	8.00	0.00
						6470708.90	2275004.14	8.00	0.00
						6470710.14	2275005.36	8.00	0.00
						6470711.56	2275006.35	8.00	0.00
						6470713.14	2275007.08	8.00	0.00
						6470714.82	2275007.52	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6470716.55	2275007.66	8.00	0.00
						6471703.64	2275002.45	8.00	0.00
						6472047.29	2274994.64	8.00	0.00
						6476745.65	2275063.45	8.00	0.00
						6476747.38	2275063.31	8.00	0.00
						6476749.06	2275062.87	8.00	0.00
						6476750.64	2275062.15	8.00	0.00
						6476752.08	2275061.17	8.00	0.00
						6476753.32	2275059.95	8.00	0.00
						6476754.33	2275058.53	8.00	0.00
						6476755.08	2275056.96	8.00	0.00
						6476755.55	2275055.29	8.00	0.00
						6476755.72	2275053.56	8.00	0.00
						6476755.59	2275051.82	8.00	0.00
						6476755.16	2275050.14	8.00	0.00
						6476754.44	2275048.55	8.00	0.00
						6476753.46	2275047.12	8.00	0.00
						6476752.25	2275045.87	8.00	0.00
						6476750.83	2275044.86	8.00	0.00
						6476749.27	2275044.10	8.00	0.00
						6476747.60	2275043.63	8.00	0.00
CA86	CA86	8.00	r			6472046.83	2274244.12	8.00	0.00
						6472046.83	2273863.79	8.00	0.00
						6472231.92	2273867.90	8.00	0.00
						6472233.53	2273867.81	8.00	0.00
						6472235.11	2273867.46	8.00	0.00
						6472236.61	2273866.86	8.00	0.00
						6472237.99	2273866.02	8.00	0.00
						6472239.22	2273864.98	8.00	0.00
						6472240.26	2273863.75	8.00	0.00
						6472241.09	2273862.37	8.00	0.00
						6472241.70	2273860.87	8.00	0.00
						6472242.05	2273859.30	8.00	0.00
						6472242.14	2273857.69	8.00	0.00
						6472235.74	2273567.32	8.00	0.00
						6472572.81	2273281.77	8.00	0.00
						6472573.55	2273281.07	8.00	0.00
						6472740.10	2273108.03	8.00	0.00
						6472853.66	2273022.33	8.00	0.00
						6473028.48	2272940.32	8.00	0.00
						6473549.17	2272697.33	8.00	0.00
						6473860.82	2272563.15	8.00	0.00
						6474096.61	2272502.57	8.00	0.00
						6474247.38	2272463.81	8.00	0.00
						6475025.23	2272450.81	8.00	0.00
						6475359.34	2272448.64	8.00	0.00
						6476398.80	2272450.81	8.00	0.00
						6476399.13	2272450.80	8.00	0.00
						6476673.20	2272442.07	8.00	0.00
						6476674.93	2272441.86	8.00	0.00
						6476676.60	2272441.36	8.00	0.00
						6476678.15	2272440.57	8.00	0.00
						6476679.55	2272439.52	8.00	0.00
						6476680.74	2272438.25	8.00	0.00
						6476681.69	2272436.79	8.00	0.00
						6476682.38	2272435.19	8.00	0.00
						6476682.78	2272433.49	8.00	0.00
						6476682.87	2272431.75	8.00	0.00
						6476682.67	2272430.02	8.00	0.00
						6476682.16	2272428.35	8.00	0.00
						6476681.38	2272426.80	8.00	0.00
						6476680.33	2272425.40	8.00	0.00
						6476679.06	2272424.21	8.00	0.00
						6476677.60	2272423.26	8.00	0.00
						6476676.00	2272422.57	8.00	0.00
						6476674.30	2272422.17	8.00	0.00
						6476672.56	2272422.08	8.00	0.00
						6476398.66	2272430.81	8.00	0.00
						6475359.30	2272428.64	8.00	0.00
						6475025.00	2272430.81	8.00	0.00
						6474245.87	2272443.83	8.00	0.00
						6474244.30	2272443.98	8.00	0.00
						6474243.54	2272444.14	8.00	0.00
						6474091.63	2272483.20	8.00	0.00
						6473855.09	2272543.97	8.00	0.00
						6473854.16	2272544.26	8.00	0.00
						6473853.62	2272544.47	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6473541.12	2272679.02	8.00	0.00
						6473540.85	2272679.14	8.00	0.00
						6473020.01	2272922.20	8.00	0.00
						6472844.22	2273004.67	8.00	0.00
						6472843.46	2273005.06	8.00	0.00
						6472842.44	2273005.74	8.00	0.00
						6472727.42	2273092.55	8.00	0.00
						6472727.02	2273092.87	8.00	0.00
						6472726.24	2273093.59	8.00	0.00
						6472559.49	2273266.84	8.00	0.00
						6472219.17	2273555.14	8.00	0.00
						6472218.11	2273556.18	8.00	0.00
						6472217.22	2273557.36	8.00	0.00
						6472216.52	2273558.66	8.00	0.00
						6472216.01	2273560.06	8.00	0.00
						6472215.71	2273561.51	8.00	0.00
						6472215.64	2273562.99	8.00	0.00
						6472221.92	2273847.68	8.00	0.00
						6472037.05	2273843.57	8.00	0.00
						6472035.47	2273843.66	8.00	0.00
						6472033.91	2273844.00	8.00	0.00
						6472032.43	2273844.59	8.00	0.00
						6472031.06	2273845.40	8.00	0.00
						6472029.84	2273846.42	8.00	0.00
						6472028.79	2273847.62	8.00	0.00
						6472027.95	2273848.97	8.00	0.00
						6472027.34	2273850.43	8.00	0.00
						6472026.96	2273851.98	8.00	0.00
						6472026.83	2273853.57	8.00	0.00
						6472026.83	2274244.26	8.00	0.00
						6472037.25	2274984.78	8.00	0.00
						6472037.43	2274986.51	8.00	0.00
						6472037.90	2274988.19	8.00	0.00
						6472038.65	2274989.75	8.00	0.00
						6472039.67	2274991.17	8.00	0.00
						6472040.91	2274992.38	8.00	0.00
						6472042.35	2274993.36	8.00	0.00
						6472043.94	2274994.08	8.00	0.00
						6472045.62	2274994.51	8.00	0.00
						6472047.35	2274994.64	8.00	0.00
						6472049.09	2274994.47	8.00	0.00
						6472050.76	2274994.01	8.00	0.00
						6472052.33	2274993.26	8.00	0.00
						6472053.75	2274992.25	8.00	0.00
						6472054.96	2274991.00	8.00	0.00
						6472055.95	2274989.57	8.00	0.00
						6472056.67	2274987.99	8.00	0.00
						6472057.11	2274986.31	8.00	0.00
						6472057.25	2274984.57	8.00	0.00
CA87	CA87	8.00	r			6472030.55	2272077.25	8.00	0.00
						6473608.38	2271703.84	8.00	0.00
						6473780.91	2272144.75	8.00	0.00
						6473914.47	2272539.81	8.00	0.00
						6473915.17	2272541.41	8.00	0.00
						6473916.13	2272542.86	8.00	0.00
						6473917.34	2272544.12	8.00	0.00
						6473918.74	2272545.15	8.00	0.00
						6473920.30	2272545.92	8.00	0.00
						6473921.98	2272546.41	8.00	0.00
						6473923.71	2272546.60	8.00	0.00
						6473925.45	2272546.49	8.00	0.00
						6473927.14	2272546.08	8.00	0.00
						6473928.74	2272545.38	8.00	0.00
						6473930.19	2272544.41	8.00	0.00
						6473931.45	2272543.21	8.00	0.00
						6473932.48	2272541.81	8.00	0.00
						6473933.25	2272540.24	8.00	0.00
						6473933.74	2272538.57	8.00	0.00
						6473933.94	2272536.84	8.00	0.00
						6473933.82	2272535.10	8.00	0.00
						6473933.41	2272533.40	8.00	0.00
						6473799.78	2272138.12	8.00	0.00
						6473799.70	2272137.91	8.00	0.00
						6473799.62	2272137.68	8.00	0.00
						6473623.84	2271688.46	8.00	0.00
						6473623.14	2271687.04	8.00	0.00
						6473622.23	2271685.74	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6473621.13	2271684.60	8.00	0.00
						6473619.85	2271683.65	8.00	0.00
						6473618.45	2271682.91	8.00	0.00
						6473616.94	2271682.41	8.00	0.00
						6473615.38	2271682.14	8.00	0.00
						6473613.79	2271682.14	8.00	0.00
						6473612.22	2271682.38	8.00	0.00
						6472025.75	2272057.83	8.00	0.00
						6470365.51	2272485.37	8.00	0.00
						6469237.40	2272773.91	8.00	0.00
						6468923.18	2272830.25	8.00	0.00
						6468092.04	2272962.63	8.00	0.00
						6468090.35	2272963.06	8.00	0.00
						6468088.77	2272963.78	8.00	0.00
						6468087.34	2272964.77	8.00	0.00
						6468086.10	2272965.99	8.00	0.00
						6468085.08	2272967.40	8.00	0.00
						6468084.33	2272968.97	8.00	0.00
						6468083.86	2272970.64	8.00	0.00
						6468083.69	2272972.37	8.00	0.00
						6468083.82	2272974.10	8.00	0.00
						6468084.25	2272975.79	8.00	0.00
						6468084.96	2272977.37	8.00	0.00
						6468085.94	2272978.81	8.00	0.00
						6468087.15	2272980.06	8.00	0.00
						6468088.56	2272981.08	8.00	0.00
						6468090.13	2272981.83	8.00	0.00
						6468091.80	2272982.31	8.00	0.00
						6468093.53	2272982.49	8.00	0.00
						6468095.26	2272982.37	8.00	0.00
						6468926.43	2272849.99	8.00	0.00
						6468926.60	2272849.96	8.00	0.00
						6469241.29	2272793.53	8.00	0.00
						6469242.00	2272793.38	8.00	0.00
						6470370.48	2272504.75	8.00	0.00
CA88	CA88	8.00	r			6470737.29	2273164.32	8.00	0.00
						6470329.31	2273149.13	8.00	0.00
						6470328.93	2273149.12	8.00	0.00
						6469302.54	2273149.12	8.00	0.00
						6468486.57	2273136.10	8.00	0.00
						6468485.69	2273136.13	8.00	0.00
						6468240.47	2273155.66	8.00	0.00
						6468239.44	2273155.80	8.00	0.00
						6467970.26	2273207.90	8.00	0.00
						6467969.79	2273208.00	8.00	0.00
						6467605.21	2273296.98	8.00	0.00
						6467603.64	2273297.50	8.00	0.00
						6467602.18	2273298.27	8.00	0.00
						6467600.87	2273299.28	8.00	0.00
						6467599.74	2273300.48	8.00	0.00
						6467598.83	2273301.86	8.00	0.00
						6467598.15	2273303.36	8.00	0.00
						6467597.73	2273304.96	8.00	0.00
						6467597.58	2273306.61	8.00	0.00
						6467597.70	2273308.25	8.00	0.00
						6467598.09	2273309.86	8.00	0.00
						6467598.74	2273311.37	8.00	0.00
						6467599.63	2273312.77	8.00	0.00
						6467600.74	2273313.99	8.00	0.00
						6467602.04	2273315.02	8.00	0.00
						6467603.48	2273315.81	8.00	0.00
						6467605.04	2273316.36	8.00	0.00
						6467606.67	2273316.65	8.00	0.00
						6467608.32	2273316.66	8.00	0.00
						6467609.95	2273316.41	8.00	0.00
						6467974.30	2273227.49	8.00	0.00
						6468242.61	2273175.56	8.00	0.00
						6468486.80	2273156.11	8.00	0.00
						6469302.38	2273169.12	8.00	0.00
						6470328.75	2273169.12	8.00	0.00
						6470736.05	2273184.29	8.00	0.00
						6471002.36	2273221.10	8.00	0.00
						6471242.05	2273259.96	8.00	0.00
						6471583.91	2273396.28	8.00	0.00
						6471585.49	2273396.76	8.00	0.00
						6471587.13	2273396.98	8.00	0.00
						6471588.78	2273396.92	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6471590.40	2273396.59	8.00	0.00
						6471591.94	2273396.00	8.00	0.00
						6471593.36	2273395.17	8.00	0.00
						6471594.63	2273394.11	8.00	0.00
						6471595.71	2273392.86	8.00	0.00
						6471596.56	2273391.45	8.00	0.00
						6471597.18	2273389.91	8.00	0.00
						6471597.53	2273388.30	8.00	0.00
						6471597.61	2273386.65	8.00	0.00
						6471597.42	2273385.01	8.00	0.00
						6471596.96	2273383.42	8.00	0.00
						6471596.24	2273381.93	8.00	0.00
						6471595.29	2273380.58	8.00	0.00
						6471594.13	2273379.40	8.00	0.00
						6471592.80	2273378.43	8.00	0.00
						6471591.32	2273377.70	8.00	0.00
						6471248.44	2273240.98	8.00	0.00
						6471248.15	2273240.87	8.00	0.00
						6471246.40	2273240.41	8.00	0.00
						6471005.45	2273201.33	8.00	0.00
						6471005.22	2273201.30	8.00	0.00
						6470738.29	2273164.41	8.00	0.00
CA89	CA89	8.00	r			6470369.73	2272485.21	8.00	0.00
						6470368.05	2272485.06	8.00	0.00
						6470366.38	2272485.19	8.00	0.00
						6470364.74	2272485.60	8.00	0.00
						6470363.20	2272486.28	8.00	0.00
						6470361.80	2272487.21	8.00	0.00
						6470360.57	2272488.37	8.00	0.00
						6470359.55	2272489.71	8.00	0.00
						6470358.77	2272491.20	8.00	0.00
						6470358.25	2272492.81	8.00	0.00
						6470358.01	2272494.47	8.00	0.00
						6470318.95	2273158.54	8.00	0.00
						6470318.93	2273159.22	8.00	0.00
						6470328.92	2273680.09	8.00	0.00
						6470338.46	2274854.08	8.00	0.00
						6470338.63	2274855.82	8.00	0.00
						6470339.09	2274857.49	8.00	0.00
						6470339.84	2274859.07	8.00	0.00
						6470340.85	2274860.48	8.00	0.00
						6470342.09	2274861.71	8.00	0.00
						6470343.52	2274862.69	8.00	0.00
						6470345.11	2274863.42	8.00	0.00
						6470346.79	2274863.86	8.00	0.00
						6470348.53	2274864.00	8.00	0.00
						6470350.26	2274863.84	8.00	0.00
						6470351.94	2274863.38	8.00	0.00
						6470353.51	2274862.63	8.00	0.00
						6470354.93	2274861.63	8.00	0.00
						6470356.16	2274860.39	8.00	0.00
						6470357.15	2274858.96	8.00	0.00
						6470357.88	2274857.38	8.00	0.00
						6470358.32	2274855.69	8.00	0.00
						6470358.46	2274853.96	8.00	0.00
						6470348.91	2273679.82	8.00	0.00
						6470338.94	2273159.32	8.00	0.00
						6470377.98	2272495.65	8.00	0.00
						6470377.94	2272494.03	8.00	0.00
						6470377.65	2272492.44	8.00	0.00
						6470377.10	2272490.93	8.00	0.00
						6470376.32	2272489.51	8.00	0.00
						6470375.32	2272488.25	8.00	0.00
						6470374.12	2272487.16	8.00	0.00
						6470372.77	2272486.27	8.00	0.00
						6470371.29	2272485.62	8.00	0.00
CA90	CA90	8.00	r			6472850.20	2273003.87	8.00	0.00
						6472848.59	2273003.72	8.00	0.00
						6472846.98	2273003.83	8.00	0.00
						6472845.40	2273004.20	8.00	0.00
						6472843.91	2273004.82	8.00	0.00
						6472842.53	2273005.67	8.00	0.00
						6472841.31	2273006.73	8.00	0.00
						6472840.28	2273007.98	8.00	0.00
						6472839.46	2273009.37	8.00	0.00
						6472838.88	2273010.88	8.00	0.00
						6472838.54	2273012.46	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6472821.18	2273149.18	8.00	0.00
						6472821.11	2273150.73	8.00	0.00
						6472821.27	2273152.27	8.00	0.00
						6472821.67	2273153.77	8.00	0.00
						6472822.30	2273155.18	8.00	0.00
						6472881.84	2273265.76	8.00	0.00
						6472877.53	2273653.82	8.00	0.00
						6472873.26	2274180.34	8.00	0.00
						6472618.02	2274190.80	8.00	0.00
						6472616.46	2274190.99	8.00	0.00
						6472614.95	2274191.42	8.00	0.00
						6472613.52	2274192.08	8.00	0.00
						6472612.21	2274192.95	8.00	0.00
						6472611.06	2274194.03	8.00	0.00
						6472610.09	2274195.26	8.00	0.00
						6472609.33	2274196.64	8.00	0.00
						6472608.79	2274198.12	8.00	0.00
						6472608.49	2274199.66	8.00	0.00
						6472574.70	2274497.44	8.00	0.00
						6472329.03	2274516.34	8.00	0.00
						6472327.40	2274516.60	8.00	0.00
						6472325.84	2274517.13	8.00	0.00
						6472324.38	2274517.91	8.00	0.00
						6472323.07	2274518.91	8.00	0.00
						6472321.95	2274520.12	8.00	0.00
						6472321.03	2274521.50	8.00	0.00
						6472320.36	2274523.01	8.00	0.00
						6472319.95	2274524.61	8.00	0.00
						6472319.80	2274526.25	8.00	0.00
						6472319.93	2274527.90	8.00	0.00
						6472320.32	2274529.50	8.00	0.00
						6472320.98	2274531.02	8.00	0.00
						6472321.87	2274532.41	8.00	0.00
						6472322.99	2274533.63	8.00	0.00
						6472324.28	2274534.65	8.00	0.00
						6472325.73	2274535.44	8.00	0.00
						6472327.29	2274535.99	8.00	0.00
						6472328.92	2274536.27	8.00	0.00
						6472330.57	2274536.28	8.00	0.00
						6472584.47	2274516.75	8.00	0.00
						6472586.18	2274516.47	8.00	0.00
						6472587.80	2274515.90	8.00	0.00
						6472589.31	2274515.06	8.00	0.00
						6472590.65	2274513.98	8.00	0.00
						6472591.78	2274512.68	8.00	0.00
						6472592.68	2274511.20	8.00	0.00
						6472593.30	2274509.60	8.00	0.00
						6472593.64	2274507.91	8.00	0.00
						6472627.40	2274210.43	8.00	0.00
						6472883.60	2274199.93	8.00	0.00
						6472885.27	2274199.72	8.00	0.00
						6472886.89	2274199.23	8.00	0.00
						6472888.40	2274198.47	8.00	0.00
						6472889.76	2274197.47	8.00	0.00
						6472890.93	2274196.26	8.00	0.00
						6472891.89	2274194.87	8.00	0.00
						6472892.59	2274193.33	8.00	0.00
						6472893.03	2274191.70	8.00	0.00
						6472893.19	2274190.02	8.00	0.00
						6472897.53	2273654.01	8.00	0.00
						6472901.87	2273263.34	8.00	0.00
						6472901.74	2273261.69	8.00	0.00
						6472901.34	2273260.07	8.00	0.00
						6472900.67	2273258.55	8.00	0.00
						6472841.43	2273148.52	8.00	0.00
						6472858.38	2273014.98	8.00	0.00
						6472858.46	2273013.29	8.00	0.00
						6472858.24	2273011.62	8.00	0.00
						6472857.75	2273010.00	8.00	0.00
						6472856.99	2273008.49	8.00	0.00
						6472855.99	2273007.13	8.00	0.00
						6472854.77	2273005.96	8.00	0.00
						6472853.37	2273005.01	8.00	0.00
						6472851.83	2273004.31	8.00	0.00
CA91	CA91	8.00	r			6472037.27	2271581.35	8.00	0.00
						6472035.55	2271581.20	8.00	0.00
						6472033.82	2271581.34	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6472032.15	2271581.78	8.00	0.00
						6472030.58	2271582.51	8.00	0.00
						6472029.16	2271583.49	8.00	0.00
						6472027.93	2271584.70	8.00	0.00
						6472026.92	2271586.10	8.00	0.00
						6472026.18	2271587.66	8.00	0.00
						6472025.71	2271589.32	8.00	0.00
						6472025.53	2271591.04	8.00	0.00
						6472018.15	2272067.47	8.00	0.00
						6472018.29	2272069.20	8.00	0.00
						6472018.73	2272070.88	8.00	0.00
						6472019.45	2272072.46	8.00	0.00
						6472020.43	2272073.90	8.00	0.00
						6472021.65	2272075.14	8.00	0.00
						6472023.06	2272076.15	8.00	0.00
						6472024.63	2272076.90	8.00	0.00
						6472026.31	2272077.37	8.00	0.00
						6472028.04	2272077.54	8.00	0.00
						6472029.77	2272077.41	8.00	0.00
						6472031.45	2272076.98	8.00	0.00
						6472033.04	2272076.27	8.00	0.00
						6472034.48	2272075.29	8.00	0.00
						6472035.72	2272074.08	8.00	0.00
						6472036.74	2272072.66	8.00	0.00
						6472037.50	2272071.10	8.00	0.00
						6472037.97	2272069.43	8.00	0.00
						6472038.15	2272067.70	8.00	0.00
						6472045.53	2271591.27	8.00	0.00
						6472045.42	2271589.72	8.00	0.00
						6472045.07	2271588.20	8.00	0.00
						6472044.49	2271586.76	8.00	0.00
						6472043.69	2271585.42	8.00	0.00
						6472042.69	2271584.22	8.00	0.00
						6472041.52	2271583.19	8.00	0.00
						6472040.21	2271582.36	8.00	0.00
						6472038.78	2271581.74	8.00	0.00
CA92	CA92	8.00	r			6492601.03	2290593.02	8.00	0.00
						6492283.32	2290593.02	8.00	0.00
						6492281.59	2290593.17	8.00	0.00
						6492279.90	2290593.62	8.00	0.00
						6492278.32	2290594.36	8.00	0.00
						6492276.90	2290595.36	8.00	0.00
						6492275.66	2290596.59	8.00	0.00
						6492274.66	2290598.02	8.00	0.00
						6492273.93	2290599.60	8.00	0.00
						6492273.48	2290601.28	8.00	0.00
						6492273.32	2290603.02	8.00	0.00
						6492273.48	2290604.76	8.00	0.00
						6492273.93	2290606.44	8.00	0.00
						6492274.66	2290608.02	8.00	0.00
						6492275.66	2290609.45	8.00	0.00
						6492276.90	2290610.68	8.00	0.00
						6492278.32	2290611.68	8.00	0.00
						6492279.90	2290612.42	8.00	0.00
						6492281.59	2290612.87	8.00	0.00
						6492283.32	2290613.02	8.00	0.00
						6492601.03	2290613.02	8.00	0.00
						6492602.77	2290612.87	8.00	0.00
						6492604.45	2290612.42	8.00	0.00
						6492606.03	2290611.68	8.00	0.00
						6492607.46	2290610.68	8.00	0.00
						6492608.69	2290609.45	8.00	0.00
						6492609.69	2290608.02	8.00	0.00
						6492610.43	2290606.44	8.00	0.00
						6492610.88	2290604.76	8.00	0.00
						6492611.03	2290603.02	8.00	0.00
						6492610.88	2290601.28	8.00	0.00
						6492610.43	2290599.60	8.00	0.00
						6492609.69	2290598.02	8.00	0.00
						6492608.69	2290596.59	8.00	0.00
						6492607.46	2290595.36	8.00	0.00
						6492606.03	2290594.36	8.00	0.00
						6492604.45	2290593.62	8.00	0.00
						6492602.77	2290593.17	8.00	0.00
CA94	CA94	8.00	r			6495665.06	2291888.58	8.00	0.00
						6495663.56	2291888.43	8.00	0.00
						6495662.05	2291888.51	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6495660.57	2291888.82	8.00	0.00
						6495659.15	2291889.34	8.00	0.00
						6495492.29	2291966.01	8.00	0.00
						6495490.85	2291966.82	8.00	0.00
						6495489.57	2291967.86	8.00	0.00
						6495488.47	2291969.09	8.00	0.00
						6495487.59	2291970.49	8.00	0.00
						6495486.95	2291972.01	8.00	0.00
						6495486.58	2291973.62	8.00	0.00
						6495486.47	2291975.27	8.00	0.00
						6495486.63	2291976.91	8.00	0.00
						6495487.07	2291978.51	8.00	0.00
						6495487.76	2291980.01	8.00	0.00
						6495488.68	2291981.37	8.00	0.00
						6495489.82	2291982.57	8.00	0.00
						6495491.14	2291983.56	8.00	0.00
						6495492.61	2291984.32	8.00	0.00
						6495494.18	2291984.83	8.00	0.00
						6495495.81	2291985.07	8.00	0.00
						6495497.47	2291985.05	8.00	0.00
						6495499.09	2291984.75	8.00	0.00
						6495500.64	2291984.18	8.00	0.00
						6495667.50	2291907.52	8.00	0.00
						6495668.97	2291906.69	8.00	0.00
						6495670.28	2291905.62	8.00	0.00
						6495671.39	2291904.35	8.00	0.00
						6495672.27	2291902.90	8.00	0.00
						6495672.90	2291901.33	8.00	0.00
						6495673.25	2291899.68	8.00	0.00
						6495673.32	2291898.00	8.00	0.00
						6495673.10	2291896.32	8.00	0.00
						6495672.61	2291894.71	8.00	0.00
						6495671.85	2291893.20	8.00	0.00
						6495670.85	2291891.84	8.00	0.00
						6495669.63	2291890.67	8.00	0.00
						6495668.23	2291889.72	8.00	0.00
						6495666.70	2291889.02	8.00	0.00
CA96	CA96	8.00	r			6485427.28	2297881.47	8.00	0.00
						6485425.54	2297881.32	8.00	0.00
						6485425.30	2297881.32	8.00	0.00
						6484369.60	2297906.32	8.00	0.00
						6484367.96	2297906.49	8.00	0.00
						6484366.36	2297906.93	8.00	0.00
						6484364.87	2297907.63	8.00	0.00
						6484363.51	2297908.57	8.00	0.00
						6484362.32	2297909.72	8.00	0.00
						6484361.34	2297911.04	8.00	0.00
						6484360.58	2297912.51	8.00	0.00
						6484360.09	2297914.09	8.00	0.00
						6484359.85	2297915.72	8.00	0.00
						6484359.89	2297917.37	8.00	0.00
						6484360.20	2297919.00	8.00	0.00
						6484360.77	2297920.54	8.00	0.00
						6484361.59	2297921.98	8.00	0.00
						6484362.64	2297923.26	8.00	0.00
						6484363.88	2297924.35	8.00	0.00
						6484365.28	2297925.22	8.00	0.00
						6484366.81	2297925.84	8.00	0.00
						6484368.42	2297926.21	8.00	0.00
						6484370.07	2297926.31	8.00	0.00
						6485425.78	2297901.31	8.00	0.00
						6485427.49	2297901.12	8.00	0.00
						6485429.15	2297900.64	8.00	0.00
						6485430.71	2297899.88	8.00	0.00
						6485432.10	2297898.86	8.00	0.00
						6485433.31	2297897.62	8.00	0.00
						6485434.27	2297896.18	8.00	0.00
						6485434.98	2297894.61	8.00	0.00
						6485435.41	2297892.93	8.00	0.00
						6485435.54	2297891.21	8.00	0.00
						6485435.37	2297889.48	8.00	0.00
						6485434.91	2297887.82	8.00	0.00
						6485434.16	2297886.26	8.00	0.00
						6485433.16	2297884.85	8.00	0.00
						6485431.93	2297883.63	8.00	0.00
						6485430.51	2297882.64	8.00	0.00
						6485428.95	2297881.92	8.00	0.00

Building(s)

Name	Sel.	M.	ID	RB	Residents	Absorption	Height	Coordinates			
							Begin	x	y	z	Ground
							(ft)	(ft)	(ft)	(ft)	(ft)

FINAL MITIGATED NEGATIVE DECLARATION (MND)

Lead Agency: Mission Springs Water District
66575 Second Street
Desert Hot Springs, CA 92240

Contact: Eric Weck
Phone: 760.329.6448 ext. 122
Email: eweck@mswd.org

Project Title: Mission Springs Water District Groundwater Quality Protection Program Septic to Sewer Project

State Clearinghouse Number: 2026040663

Project Location: The Mission Springs Water District (MSWD or District) service area is located in southern California within the northwestern portion of the Coachella Valley. The project will occur within roadways and existing rights-of-way within MSWD's service area. Specifically, several sewer improvement sub-areas were identified to target septic tank abatements; these areas include: A, D-3, G, H, I, J-2, K, and along the I-10 corridor.

Area A
Latitude/Longitude: 33.585067°, -116.32306°
The project is located within the following roadways: Augusta Avenue, La Costa Court, Annandale Avenue, Cochran Court, Desert Air Court, Oakmont Boulevard, Barnes Court, Egan Court, Leonard Court, Ray Court, Leith Avenue, Little Court, Cotton Court, Inglewood Avenue, Hoylake Road, Cascades Drive, Smith Court, Burke Court, Boros Court, Brae Burn Avenue, Spyglass Avenue, Ekwanok Drive, Warwick Drive, Picard Court, Vardon Court, Kirkwood Court, Turnesa Court, Diegel Court, Capiland Drive, Congressional Road, Apawamis Road, Siwanoy Drive, Sanderling Court, Pinehurst Circle, Troon Court, Middlecoff Court, Brookline Avenue, Lido Court, Jones Court, Devicenzo Court, Doral Drive, Clubhouse Boulevard, and Lema Court. The project site is generally located within Section 23, Township 2 South, Range 4 West of the USGS 7.5 Minute Desert Hot Springs, CA topographical quadrangle.

Area D-3
Latitude/Longitude: 33.582624°, -116.301204°
The project is located within the following roadways: Cactus Drive, 12th Street, San Juan Drive, and San Marcus Road. The project site is generally located within Section 30, Township 2 South, Range 5 East of the USGS 7.5 Minute Desert Hot Springs, CA topographical quadrangle.

Area G
Latitude/Longitude: 33.572177°, -116.292122°
The project is located within the following roadways: Verbena Drive, Ambrosio Drive, Pomelo Drive, Foxdale Drive, Tamar Drive, Sumac Drive, Desert View Drive and Parma Drive. The project site is generally located within Section 32, Township 2 South, Range 5 East of the USGS 7.5 Minute Seven Palms Valley, CA topographical quadrangle.

Area H
Latitude/Longitude: 33.565173°, -116.285360°
The project is located within the following roadways: Tunitas Road, Suerte Way, Oro Loma Street, Ortega Drive, Pequena Drive, Cerrita Way, Loma Vista Road, Key Way, Monterey Road, Agua Cayendo Road, Cuando Way, Oris Drive, Cielo Azul Way, Miracle Hill Road, Eliseo Road, and Hacienda Avenue. The project site is generally located within Section 32, Township 2 South, Range 5 East of the USGS 7.5 Minute Seven Palms Valley, CA topographical quadrangle.

Area I
Latitude/Longitude: 33.571017°, -116.283667°
The project is located within the following roadways: Monterico Road, Desert View Avenue, Arena Blanca Road, Alameda Road, Pequena Drive, Loma Vista Road, Hidalgo Street, Hermano Way, Inaja Street, and Quinta Way. The project site is generally located within Section 32, Township 2 South, Range 5 East of the USGS 7.5 Minute Seven Palms Valley, CA topographical quadrangle.

Area J-2
Latitude/Longitude: 33.572443°, 116.282598°
The project is located within the following roadways: Mountain View Road, Highland Avenue, Skyline Drive,

Calle Amapola, Avenida Serena, Redbud Road, Calle Blanco, Avenida Hermosa, Via Domingo, Hacienda Road, Acacia Avenue, Beech Avenue, Catalpa Avenue, Deodar Avenue, Calle Bonita, Calle Calmoso, Calle Descanso, Avenida Alta Loma, and Monterico Road. The project site is generally located within Section 33, Township 2 South, Range 5 East of the USGS 7.5 Minute Seven Palms Valley, CA topographical quadrangle.

Area K
Latitude/Longitude: 33.572769°, -116.275833°
The project is located within the following roadways: Juniper Drive, Fernwood Drive, Elm Avenue, Deodar Avenue, Catalpa Avenue, Birch Road, Beech Avenue, Hacienda Avenue, Redbud Road, Skyline Drive, and Spruce Street. The project site is generally located within Section 33, Township 2 South, Range 5 East of the USGS 7.5 Minute Seven Palms Valley, CA topographical quadrangle.

I-10 and North Indian Canyon Drive Corridor Area
Latitude/Longitude: 33.541641°, -116.323388°
The project is located within the following roadways: Garnet Avenue, Indian Canyon Drive, 20th Avenue, 19th Avenue, Orr Way, McLane Street, Ruppert Street, and Newhall Street. The project site is generally located within Section 14, Township 3 South, Range 4 East of the USGS 7.5 Minute Desert Hot Springs, CA topographical quadrangle.

Project Description:

The purpose of the project is to install sewer pipeline to eliminate septic tanks that threaten contamination of potable groundwater supplies by expanding MSWD's wastewater collection system. The District seeks to install sewer main lines and laterals within roadways and existing rights-of-ways, and abatement of septic tanks, within MSWD's service area. Specifically, several sewer improvement sub-areas were identified to target septic tank abatements; these areas include: A, D-3, G, H, I, J-2, K, and along the I-10 corridor. The project would involve the construction of 146,200 linear feet (LF) of 8-inch sewer pipeline. Construction is planned to connect 2,600 parcels to the MSWD sewer system and abate over 2,040 on-site septic systems. In addition, the project includes installation of an estimated 2,500 new 4- to 6-inch service laterals. Construction of this project is anticipated to occur over a period of about 20 years, with one Sub Area to be constructed approximately every 30 months.

Finding:

The District's decision to implement this proposed project is a discretionary decision or "project" that requires evaluation under the California Environmental Quality Act (CEQA). Based on the information in the project Initial Study, the District has made a *preliminary* determination that a Mitigated Negative Declaration will be the appropriate environmental determination for this project to comply with CEQA.

Initial Study:

A copy of the Initial Study and all other material which constitutes the record of proceedings upon which the District based its decision to adopt this MND may be obtained at District office at 66575 Second Street Desert Hot Springs, CA 92240 and is available at the District's website: https://www.mswd.org/. The CEQA-required public review period of the Initial Study/MND April 14, 2026 and ends on May 14, 2026 (30 days). Written comments on the Initial Study were submitted to Eric Weck at the mailing address listed above no later than May 14, 2026 by 5:00 PM. Mr. Weck may be contacted at eweck@mswd.org or 760.329.6448 ext. 122.

Mitigation Measures:

All mitigation measures identified in the Initial Study are summarized on pages 202-212 and are proposed for adoption as conditions of the project. These measures will be implemented through a mitigation monitoring and reporting program if the MND is adopted.

Signature *Title* *Date*

NOTICE OF DETERMINATION

To: **Office of Land Use and Climate Innovation**
State Clearinghouse
1400 Tenth Street
Sacramento, CA 95814

and

Riverside County, County Clerk-Recorder
2724 Gateway Drive
Riverside, CA 92507

From: Mission Springs Water District
66575 Second Street
Desert Hot Springs, CA 92240

Subject: Filing of Notice of Determination in compliance with Section 21108 or 21152 of the Public Resources Code.

Mission Springs Water District Groundwater Quality Protection Program Septic to Sewer Project
Project Title

SCH #2026040663	Eric Weck, Engineering Manager	760.329.6448 ext. 122
State Clearinghouse Number	**Lead Agency Contact Person**	**Area Code/Telephone/Extension**

Project Location:
The Mission Springs Water District (MSWD or District) service area is located in southern California within the northwestern portion of the Coachella Valley. The proposed project will install sewer main lines and laterals within roadways and existing rights-of-way, and abatement of septic tanks, within MSWD's service area. Specifically, several sewer improvement sub-areas were identified to target septic tank abatements; these areas include: A, D-3, G, H, I, J-2, K, and along the along the North Indian Canyon Drive / I-10 corridor.

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The project is located within the following roadways: Cactus Drive, 12th Street, San Juan Drive, and San Marcus Road. The project site is generally located within Section 30, Township 2 South, Range 5 East of the USGS 7.5 Minute Desert Hot Springs, CA topographical quadrangle.

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The project is located within the following roadways: Verbena Drive, Ambrosio Drive, Pomelo Drive, Foxdale Drive, Tamar Drive, Sumac Drive, Desert View Drive and Parma Drive. The project site is generally located within Section 32, Township 2 South, Range 5 East of the USGS 7.5 Minute Seven Palms Valley, CA topographical quadrangle.

Area H
Latitude/Longitude: 33.565173°, -116.285360°

The project is located within the following roadways: Tunitas Road, Suerte Way, Oro Loma Street, Ortega Drive, Pequena Drive, Cerrita Way, Loma Vista Road, Key Way, Monterey Road, Agua Cayendo Road, Cuando Way, Oris Drive, Cielo Azul Way, Miracle Hill Road, Eliseo Road, and Hacienda Avenue. The project site is generally located within Section 32, Township 2 South, Range 5 East of the USGS 7.5 Minute Seven Palms Valley, CA topographical quadrangle.

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I-10 and North Indian Canyon Drive Corridor Area
Latitude/Longitude: 33.541641°, -116.323388°
The project is located within the following roadways: Garnet Avenue, Indian Canyon Drive, 20th Avenue, 19th Avenue, Orr Way, McLane Street, Ruppert Street, and Newhall Street. The project site is generally located within Section 14, Township 3 South, Range 4 East of the USGS 7.5 Minute Desert Hot Springs, CA topographical quadrangle.

Project Description:
The purpose of the project is to install sewer pipeline to eliminate septic tanks that threaten contamination of potable groundwater supplies by expanding MSWD's wastewater collection system. The District seeks to install sewer main lines and laterals within roadways and existing rights-of-ways, and abatement of septic tanks, within MSWD's service area. Specifically, several sewer improvement sub-areas were identified to target septic tank abatements; these areas include: A, D-3, G, H, I, J-2, K, and along the along the North Indian Canyon Drive / I-10 corridor. The project would involve the construction of 146,200 linear feet (LF) of 8-inch sewer pipeline. Construction is planned to connect 2,600 parcels to the MSWD sewer system and abate over 2,040 on-site septic systems. In addition, the project includes installation of an estimated 2,500 new 4- to 6-inch service laterals. Construction of this project is anticipated to occur over a period of about 20 years, with one Sub Area to be constructed approximately every 30 months.

This is to advise that the Mission Springs Water District has approved the above described project on

■ Lead Agency ☐ Responsible Agency

_____ and has made the following determination regarding the above described project:
(Date)

1. The project [☐ will ■ will not] have a significant effect on the environment.
2. ☐ An Environmental Impact Report was prepared for this project pursuant to the provisions of CEQA.
   ■ A Mitigated Negative Declaration was prepared for this project pursuant to the provisions of CEQA.
3. Mitigation measures [■ were ☐ were not] made a condition of the approval of the project and a Mitigation Monitoring and Reporting Plan was adopted.
4. A Statement of Overriding Considerations [☐ was ■ was not] adopted for this project.
5. Findings [☐ were ■ were not] made pursuant to the provisions of CEQA.

This is to certify that the Mitigated Negative Declaration/Initial Study and record of project approval is available to the general public at:

Mission Springs Water District located at 66575 Second Street, Desert Hot Springs, CA 92240 and online at https://www.mswd.org/

Signature	*Title*	*Date*

FINAL
INITIAL STUDY

FOR THE

MISSION SPRINGS WATER DISTRICT GROUNDWATER QUALITY PROTECTION PROGRAM SEPTIC TO SEWER PROJECT

Prepared for:

Mission Springs Water District
66575 Second Street
Desert Hot Springs, CA 92240

Prepared by:

Tom Dodson & Associates
PO Box 2307
San Bernardino, California 92404
(909) 882-3612

June 2026

TABLE OF CONTENTS

Comment Letters and Responses to Comments

Mitigation Monitoring and Reporting Program

Final Initial Study (Appendices Under a Separate Cover)

COMMENT LETTERS AND RESPONSES TO COMMENTS

TOM DODSON & ASSOCIATES

Mailing Address: PO Box 2307, San Bernardino, CA 92406
Physical Address: 2150 N. Arrowhead Avenue, San Bernardino, CA 92405
Tel: (909) 882-3612 ✦ Email: tda@tdaenv.com ✦ Web: tdaenvironmental.com

MEMORANDUM

May 22, 2026

From: Kaitlyn Dodson-Hamilton

To: Mr. Eric Weck, Engineering Manager

Subject: Completion of the Mitigated Negative Declaration for the Mission Springs Water District Groundwater Quality Protection Program Septic to Sewer Project (SCH No. 2026040663)

Mission Springs Water District (MSWD or District) received 2 written comment letters on the proposed Mitigated Negative Declaration for the Mission Springs Water District Street Improvements for the Regional Wastewater Reclamation Facility Project. CEQA requires a Negative Declaration to consist of the Initial Study; copies of the comments; any responses to comments as compiled on the following pages; and any other Project-related material prepared to address issues evaluated in the Initial Study.

For this Project, the original Initial Study (IS) will be utilized as one component of the Final Mitigated Negative Declaration (MND) package. The attached responses to comments, combined with the Initial Study and the Mitigation Monitoring and Reporting Program, constitute the Final MND package that will be used by the District to consider the environmental effects of implementing the proposed Project.

The following parties submitted comments. The comments in this letter are addressed in the attached Responses to Comments:

1. California Department of Transportation (Caltrans)
2. California Department of Fish and Wildlife (CDFW)

Because mitigation measures are required for this Project to reduce potentially significant impacts to a less than significant level, the Mitigation Monitoring and Reporting Program (MMRP) attached to this package is required to be adopted as part of this Final MND package. The MMRP has been incorporated by reference to this package for approval and implementation.

The District consideration of the proposed Project and adoption of the Mitigated Negative Declaration will occur at a hearing scheduled on June 15, 2026.

Do not hesitate to give me a call if you have any questions regarding the contents of this package.



Kaitlyn Dodson-Hamilton
Attachments

From: **Flores, Victor F@DOT** Victor.F.Flores@dot.ca.gov
Subject: Mission Springs Water District Groundwater Quality Protection Program Septic to Sewer Project - 2026040663
Date: April 29, 2026 at 4:05 PM
To: Eric Weck eweck@mswd.org

VF

IRONSCALES couldn't recognize this email as this is the first time you received an email from this sender Victor.F.Flores@dot.ca.gov

Hi Eric,

1-1 The Caltrans Local Development Review Branch has completed the review of the Mission Springs Water District Groundwater Quality Protection Program Septic to Sewer Project.

The project documentation indicates that the bore beneath I-10 has already been completed; however, it is unclear whether an encroachment permit was previously obtained and remains valid for the proposed work, or if a new permit will be required. Please reach out to the Caltrans Office of Encroachment Permits for further coordination.

1-2 Regarding TRA-1, if the proposed project would require lane and/or roadway closures on State highways or ramps, please coordinate with the Caltrans Office of Encroachment Permits to obtain the necessary approvals.

1-3 Be advised that any permanent work or temporary traffic control that encroaches onto Caltrans' right-of-way requires a Caltrans-issued encroachment permit.

For information regarding the Encroachment Permit application and submittal requirements, contact:

Caltrans Office of Encroachment Permits
464 West 4th Street, Basement, MS 619
San Bernardino, CA 92401-1400
(909) 383-4526
D8.E-permits@dot.ca.gov
https://dot.ca.gov/programs/traffic-operations/ep
Important Note: All new permit applications must now be submitted through our new CEPS Online Portal at: https://ceps.dot.ca.gov/

LDR's point of contact role will conclude upon the completion of the development entitlement process. Once project is entitled, the Encroachment Permit Office will serve as the primary point of contact moving forward.

1-4 Thank you again for including Caltrans in the review process. Should you have any questions regarding this response, or for future notifications and requests for review of new projects, please email LDR-D8@dot.ca.gov.

Sincerely,

Victor Flores
Associate Transportation Planner
Local Development Review Branch
D8 Division of Transportation Planning
(909) 925-7520
Victor.F.Flores@dot.ca.gov

RESPONSE TO COMMENT
LETTER #2
CALTRANS

1-1 The comment is introductory in nature, and also notes that the boring under the I-10 has already occurred, and requests that if a new encroachment permit is required, coordination with Caltrans should be initiated. The comment is noted and the District will coordinate with Caltrans should an encroachment permit be necessary for future Project activities. At this time, the District does not anticipate any further CalTrans right-of-way (ROW) encroachment, as the sewer pipeline within the ROW identified in the IS/MND has been installed and all applicable permits secured by the project proponent.

1-2 The comment requests coordination with Caltrans for any road closures on State highways or ramps as part of construction. A review of the roadways that would be impacted as part of construction of the proposed Project indicates that no State highways or ramps would be impacted.

1-3 The comment conveys that activities that would require a Caltrans encroachment permit, and provides contact information thereof. The comment is noted and will be made available to the District decision-makers for consideration prior to a decision on the proposed Project. The contact information provided in this comment will be retained in the Project file.

1-4 This is a conclusory comment. The District thanks Caltrans for the comments and for the commenter's time. The contact information provided in this comment will be retained in the Project file.

STATE OF CALIFORNIA
DEPARTMENT OF FISH AND WILDLIFE

GAVIN NEWSOM, Governor
MEGHAN HERTEL, Director

Inland Deserts Region
3602 Inland Empire Blvd., Suite C-220
Ontario, CA 91764
wildlife.ca.gov

Comment Letter #2

May 14, 2026
Sent via email

Eric Weck
Engineering Manager
Mission Springs Water District
66575 Second Street
Desert Hot Springs, CA 92240
eweck@mswd.org

Subject: Mission Springs Water District Groundwater Quality Protection Program Septic to Sewer Project (PROJECT)
Mitigated Negative Declaration (MND)
SCH# 2026040663

Dear Eric Weck:

The California Department of Fish and Wildlife (CDFW) received a Notice of Intent to Adopt an MND from the Mission Springs Water District (MSWD) for the Project pursuant to the California Environmental Quality Act (CEQA) and CEQA Guidelines.[1]

2-1 Thank you for the opportunity to provide comments and recommendations regarding those activities involved in the Project that may affect California fish and wildlife. Likewise, we appreciate the opportunity to provide comments regarding those aspects of the Project that CDFW, by law, may be required to carry out or approve through the exercise of its own regulatory authority under the Fish and Game Code.

CDFW ROLE

2-2 CDFW is California's **Trustee Agency** for fish and wildlife resources and holds those resources in trust by statute for all the people of the State. (Fish & G. Code, §§ 711.7, subd. (a) & 1802; Pub. Resources Code, § 21070; CEQA Guidelines § 15386, subd. (a).) CDFW, in its trustee capacity, has jurisdiction over the conservation, protection, and management of fish,

[1]CEQA is codified in the California Public Resources Code in section 21000 et seq. The "CEQA Guidelines" are found in Title 14 of the California Code of Regulations, commencing with section 15000.

RESPONSE TO COMMENT
LETTER #2
CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE

2-1 The comment provides an introduction to the comment letter. The comment is noted and will be made available to the District decision-makers for consideration prior to a decision on the proposed Project. The District acknowledges the role of the California Department of Fish and Wildlife's (CDFW) as a commenter on this Project.

2-2 The comment details CDFW's status as a Trustee Agency for fish and wildlife resources, and as a Responsible Agency. The District acknowledges the CDFW's role as a Trustee Agency, and as Responsible Agency under CEQA for this Project, and understands that authorization as provided by the Fish and Game Code for some Project-related activities may be required.

wildlife, native plants, and habitat necessary for biologically sustainable populations of those species. (*Id.*, § 1802.) Similarly, for purposes of CEQA, CDFW is charged by law to provide, as available, biological expertise during public agency environmental review efforts, focusing specifically on Projects and related activities that have the potential to adversely affect fish and wildlife resources.

2-2 cont'd CDFW is also submitting comments as a **Responsible Agency** under CEQA. (Pub. Resources Code, § 21069; CEQA Guidelines, § 15381.) CDFW expects that it may need to exercise regulatory authority as provided by the Fish and Game Code. As proposed, for example, the Project may be subject to CDFW's lake and streambed alteration regulatory authority. (Fish & G. Code, § 1600 et seq.) Likewise, to the extent implementation of the Project as proposed may result in "take" as defined by State law of any species protected under the California Endangered Species Act (CESA) (Fish & G. Code, § 2050 et seq.), the Project proponent may seek related take authorization as provided by the Fish and Game Code.

PROJECT DESCRIPTION SUMMARY

Proponent: Mission Springs Water District

Objective: The Project proposes installation of a sewer pipeline including sewer main lines and laterals within roadways and existing rights-of-ways, and abatement of septic tanks, within MSWD's service area. The Project would involve the construction of 146,200 linear feet of 8-inch sewer pipeline. Construction is planned to connect 2,600 parcels to the MSWD sewer system and abate over 2,040 on-site septic systems. In addition, the Project includes installation of an estimated 2,500 new 4- to 6-inch service laterals.

Location: The Project's linear alignment covers several sewer improvement subareas including A, D-3, G, H, I, J-2, K, and along the I-10 corridor, as described below, which are within the Cities of Desert Hot Springs and Palm Springs and unincorporated Riverside County, all within the County of Riverside, California. 2-3

Area A, Latitude/Longitude: 33°58'50.67"N, 116°32'3.06"W. The pipelines will be installed within the roadways shown in the MND in Figures 2 and 3. These roadways are Augusta Avenue, La Costa Court, Annandale Avenue, Cochran Court, Desert Air Court, Oakmont Boulevard, Barnes Court, Egan Court, Leonard Court, Ray Court, Leith Avenue, Little Court, Cotton Court, Inglewood Avenue, Hoylake Road, Cascades Drive, Smith Court, Burke Court, Boros Court, Brae Burn Avenue, Spyglass Avenue, Ekwanok Drive, Warwick Drive, Picard Court, Vardon Court, Kirkwood Court, Turnesa Court, Diegel Court, Capiland Drive, Congressional Road, Apawamis Road, Siwanoy Drive, Sanderling Court, Pinehurst Circle, Troon Court, Middlecoff Court, Brookline Avenue, Lido Court, Jones Court, Devicenzo Court, Doral Drive, Clubhouse Boulevard, and Lema Court. The project site is generally located within Section 23, Township 2 South, Range 4 West of the USGS 7.5-Minute Desert Hot Springs, CA topographical quadrangle. This subarea occurs within the City of Desert Hot Springs and

County of Riverside.

Area D-3, Latitude/Longitude: 33°58'26.24"N, 116°30'12.04"W. The pipelines will be installed within the roadways shown in the MND in Figures 4 and 5. These roadways are Cactus Drive, 12th Street, San Juan Drive, and San Marcus Road. The project site is generally located within Section 30, Township 2 South, Range 5 East of the USGS 7.5-Minute Desert Hot Springs, CA topographical quadrangle. This subarea occurs within the City of Desert Hot Springs.

Area G, Latitude/Longitude: 33°57'21.77"N, 116°29'21.22"W. The pipelines will be installed within the roadways shown in the MND in Figures 6 and 7. These roadways are Verbena Drive, Ambrosio Drive, Pomelo Drive, Foxdale Drive, Tamar Drive, Sumac Drive, Desert View Drive, and Parma Drive. The project site is generally located within Section 32, Township 2 South, Range 5 East of the USGS 7.5-Minute Seven Palms Valley, CA topographical quadrangle. This subarea occurs within the City of Desert Hot Springs.

Area H, Latitude/Longitude: 33°56'51.73"N, 116°28'53.60"W. The pipelines will be installed within the following roadways shown in the MND in Figures 8 and 9. These roadways are Tunitas Road, Suerte Way, Oro Loma Street, Ortega Drive, Pequena Drive, Cerrita Way, Loma Vista Road, Key Way, Monterey Road, Agua Cayendo Road, Cuando Way, Oris Drive, Cielo Azul Way, Miracle Hill Road, Eliseo Road, and Hacienda Avenue. The project site is generally located within Section 32, Township 2 South, Range 5 East of the USGS 7.5-Minute Seven Palms Valley, CA topographical quadrangle. This subarea occurs within the City of Desert Hot Springs.

2-3 cont'd

Area I, Latitude/Longitude: 33°57'10.17"N, 116°28'36.67"W. The pipelines will be installed within the roadways shown in the MND in Figures 10 and 11. These roadways are Monterico Road, Desert View Avenue, Arena Blanca Road, Alameda Road, Pequena Drive, Loma Vista Road, Hidalgo Street, Hermano Way, Inaja Street, and Quinta Way. The project site is generally located within Section 32, Township 2 South, Range 5 East of the USGS 7.5-Minute Seven Palms Valley, CA topographical quadrangle. This subarea occurs within the City of Desert Hot Springs.

Area J-2, Latitude/Longitude: 33°57'24.43"N, 116°28'25.98"W. The pipelines will be installed within the roadways shown in the MND in Figure 12. These roadways are Mountain View Road, Highland Avenue, Skyline Drive, Calle Amapola, Avenida Serena, Redbud Road, Calle Blanco, Avenida Hermosa, Via Domingo, Hacienda Road, Acacia Avenue, Beech Avenue, Catalpa Avenue, Deodar Avenue, Calle Bonita, Calle Calmoso, Calle Descanso, Avenida Alta Loma, and Monterico Road. The project site is generally located within Section 33, Township 2 South, Range 5 East of the USGS 7.5-Minute Seven Palms Valley, CA topographical quadrangle. This subarea occurs within the City of Desert Hot Springs.

Area K, Latitude/Longitude: 33°57'27.69"N, 116°27'58.33"W. The pipelines will be installed within the roadways shown in the MND in Figures 13 and 14. These roadways are Juniper

2-3 The comment provides a description of the Project. The Project description summary outlined in this comment is accurate.

Drive, Fernwood Drive, Elm Avenue, Deodar Avenue, Catalpa Avenue, Birch Road, Beech Avenue, Hacienda Avenue, Redbud Road, Skyline Drive, and Spruce Street. The project site is generally located within Section 33, Township 2 South, Range 5 East of the USGS 7.5-Minute Seven Palms Valley, CA topographical quadrangle. This subarea occurs within the City of Desert Hot Springs.

2-3 cont'd I-10 and North Indian Canyon Drive Corridor Area (Area I-10 Corridor), Latitude/Longitude: 33°54'16.41"N, 116°32'33.88"W. The pipelines will be installed within the roadways shown in the MND in Figure 15. These roadways are Garnet Avenue, Indian Canyon Drive, 20th Avenue, 19th Avenue, Orr Way, McLane Street, Ruppert Street, and Newhall Street. The project site is generally located within Section 14, Township 3 South, Range 4 East of the USGS 7.5-Minute Desert Hot Springs, CA topographical quadrangle. Note that this area is located within the City of Desert Hot Springs and City of Palm Springs.

Timeframe: The MND indicates that Project construction is anticipated to occur over a period of about 20 years, with one subarea to be constructed approximately every 30 months.

COMMENTS AND RECOMMENDATIONS

CDFW has jurisdiction over the conservation, protection, and management of fish, wildlife, native plants, and habitat necessary for biologically sustainable populations of those species (i.e., biological resources). CDFW offers the comments and recommendations below to assist MSWD in adequately identifying and/or mitigating the Project's significant, or potentially significant, direct and indirect impacts on fish and wildlife (biological) resources. The MND has not adequately identified and disclosed the Project's impacts (i.e., direct, indirect, and
2-4 cumulative) on biological resources and whether those impacts are reduced to less than significant.

CDFW's comments and recommendations on the MND are explained in greater detail below and summarized here. CDFW is concerned that the MND does not adequately identify or mitigate the Project's significant, or potentially significant impacts to biological resources. CDFW requests that additional information and analyses be added to a revised MND, along with avoidance, minimization, and mitigation measures that avoid or reduce impacts to less than significant.

Existing Environmental Setting

Compliance with CEQA is predicated on a complete and accurate description of the
2-5 environmental setting that may be affected by the proposed Project. CDFW is concerned that the assessment of the existing environmental setting has not been adequately analyzed in the MND. CDFW is concerned that without a complete and accurate description of the existing environmental setting, the MND may provide an incomplete analysis of Project-related environmental impacts.

2-4 The comment details that CDFW has presented comments and recommendations related to fish and wildlife resources, and notes that the commenter believes that the MND has not adequately identified and disclosed the Project's impacts on biological resources. The comment is noted and will be made available to the District decision-makers for consideration prior to a decision on the proposed Project. The District further addresses CDFW's comments and concerns in the forthcoming responses.

2-5 The comment first discusses the existing setting, and raises concerns that the environmental setting has not been described accurately, making the analysis inadequate. However, the commenter does not address the deficiencies to the environmental setting, such that the District can elaborate or address this comment in greater detail. The District is noting that the Project consists of the following:

MSWD proposes to install 142,000 LF of 8-inch sewer pipeline within Areas A, D-3, G, H, I, J-2, K, and along the I-10 corridor to eliminate septic tanks that threaten contamination of potable groundwater supplies by expanding MSWD's wastewater collection system. This project also includes abating more than 2,040 septic tanks, and connecting 2,600 parcels to the District's sewer collection system, as well as installation of an estimated 2,500 new 4- to 6-inch service laterals. The proposed project will install the new sewer pipeline and laterals belowground within existing roadways, and compacted dirt right-of-way. The septic abatement would occur within existing developed properties, predominantly existing residential uses, and as a result the environmental setting of the project area consists predominantly of disturbed area, except in the small individual case of the I-10 corridor, wherein there is a pipeline that would be installed through an area of native desert.

The District has presented the environmental setting and surrounding land uses and setting in the Project Description of the IS/MND. Further, the Biological Resources Assessment (BRA) prepared for the proposed Project states the following:

The Project Area is situated in the geographically based ecological classification known as the Upper Coachella Valley and Hills of the Sonoran Basin and Range in southern California (Griffith et al. 2016). The goal of regional ecological classifications is to reduce variability based on spatial covariance in climate, geology, topography, climax vegetation, hydrology, and soils. The Upper Coachella Valley and Hills ecoregion is a transitional desert region with some affinities to the Mojave Basin and Range ecoregion to the north and is surrounded by mountains, except to the south where it descends toward the agricultural lands and the Salton Sea (Griffith et al. 2016).

The Desert Hot Springs area is situated in the northwestern end of the Coachella Valley and is bordered on the north and northeast by the Little San Bernardino Mountains, on the east/southeast by the Seven Palms Valley and Edom Hills and on the west by the San Bernardino Mountain foothills. The topography of the Project Area consists of an urban

landscape that slopes downward from northeast to southwest, built over naturally occurring alluvial fans and bajadas. The elevation of the Project Area ranges from approximately 1,055 feet above mean sea level (amsl) near the southern limits of the Project Area to 1,520 feet amsl near the northeastern-most limits.

The Project Area is within a hot desert climate (BWh), characterized by year-round high temperatures, low humidity, and considerable variation in the occurrence, intensity, and distribution of precipitation. Average annual maximum temperatures within the Project Area peak at 108.5 degrees Fahrenheit (° F) in July and fall to an average annual minimum temperature of 37° F in December and January (Palm Springs Airport temperature data average over 27 years, 1998-2025; NOAA 2025). Average total annual precipitation is approximately 3.73 inches and reaches a peak in January (0.87 inches) (Palm Springs Airport precipitation data average over 27 years, 1998- 2025; NOAA 2025). Precipitation is lowest in the month of June (0.00 inches average (NOAA 2025)).

Hydrologically, the eastern portions of the Project Area are situated within the Miracle Hill Hydrologic Sub-Area (HSA 719.43) and the western portions are within the Mission Creek Hydrologic Sub-Area (HSA 719.42). The Miracle Hill and Mission Creek HSAs comprise 44,525-acre and 73,871-acre drainage areas respectively; both within the larger Whitewater River Watershed (HUC 18100201). The Whitewater River is the major hydrogeomorphic feature within the Whitewater River Watershed and is one of the main tributaries to the Salton Sea. The nearest tributary to the Whitewater River is Morongo Wash, which is southwest-adjacent to Area A at its closest point to the Project Area.

Soils within the Project Area are comprised mostly of Carsitas Series soils including Carsitas gravelly sand, 0 to 9 percent slopes, Carsitas gravelly sand, 9 to 30 percent slopes, Carsitas cobbly sand, 2 to 9 percent slopes and Carsitas fine sand, 0 to 5 percent slopes (USDA 2025). Carsitas family soils consist of gravelly sand that is comprised of gravelly alluvium derived from granite. This soil type is excessively drained, with a low to very low runoff class and does not have a hydric soil rating.

The Project is also located within the City of Palm Springs and Unincorporated Riverside County. Here is what I suggest this paragraph reads as:

The City of Desert Hot Springs is a desert community situated north of the City of Palms Springs, along the southern foothills of the Little San Bernardino Mountains, which consists of a mix of urban landscapes and undeveloped desert scrub habitats. The project area is entirely within a disturbed environment, with only minor areas of the project footprint containing native desert species (such as any areas outside of road ROW). The mix of land uses that occur within the project area includes nearly all of the land uses that could be found within the City of Desert Hot Springs; and further, within the City of Palm Springs, the land use is generally Industrial (IND) in nature, with some areas designated for Open Space Desert (OS-D), and a small area designated for Medium Density

Residential (MDR). Within Unincorporated Riverside County, the predominant land uses are Medium Density Residential, Commercial Retail, Open Space Recreation, Conservation, and Medium High Density Residential. Within all "lettered" Sub Areas, the predominant land uses are residential in nature. Habitat within the surrounding undeveloped areas consist mostly of Creosote bush scrub (Larrea tridentata) Shrubland Alliance plant communities.

The above is an accurate description of the environmental setting, and it should be noted that the Project is slated to occur over a 20-year period. The BRA was prepared on a site specific level to identify potential biological constraints, but the mitigation actions were prepared at a Programmatic level to address the progression of the Project's 20-year implementation. Thus, while some mitigation measures have been modified to address CDFW's comments 2-6 through 2-10, the District has demonstrated in the IS/MND and throughout these responses to comments that the Environmental Setting is clear, and that impacts have been forecasted appropriately.

The MND lacks a complete assessment of potential impacts to burrowing owl and to streams and associated fish and wildlife resources subject to Fish and Game Code section 1600 et seq. A complete and accurate assessment of the environmental setting and Project-related impacts to biological resources is needed to both identify appropriate avoidance, minimization, and mitigation measures and demonstrate that these measures reduce Project impacts to less than significant.

2-5 cont'd

Mitigation Measures

CEQA requires that an MND include mitigation measures to avoid or reduce significant impacts. CDFW is concerned that the mitigation measures proposed in the MND are not adequate to avoid or reduce impacts to biological resources to below a level of significance. To support MSWD in ensuring that Project impacts to biological resources are reduced to less than significant, CDFW recommends adding mitigation measures associated with CDFW's Lake and Streambed Alteration Program and nesting birds, as well as revising the mitigation measure for burrowing owl.

1) Burrowing Owl

On October 10, 2024, the Fish and Game Commission determined that western burrowing owl warrants protection as a candidate species under the California Endangered Species Act (Fish & G. Code, § 2050 et seq.). During the candidacy period, western burrowing owl will be afforded the same protection as threatened and endangered species under CESA. If Project activities, including relocation, could result in take, appropriate CESA authorization (i.e., Incidental Take Permit under Fish and Game Code section 2081) should be obtained prior to commencement of Project activities.

2-6

Take of individual burrowing owls and their nests or eggs is defined by Fish and Game Code section 86, and prohibited by sections 3503, 3503.5, and 3513. Take is defined in Fish and Game Code section 86 as "hunt, pursue, catch, capture or kill, or attempt to hunt, pursue, catch, capture or kill." Fish and Game Code sections 3503, 3503.5, and 3513 afford protective measures as follows: section 3503 states that it is unlawful to take, possess, or needlessly destroy the nest or eggs of any bird, except as otherwise provided by Fish and Game Code or any regulation made pursuant thereto. Fish and Game Code section 3503.5 makes it unlawful to take, possess, or destroy any birds in the orders Falconiformes or Strigiformes (birds-of-prey) or to take, possess, or destroy the nest or eggs of any such bird except as otherwise provided by Fish and Game Code or any regulation adopted pursuant thereto. Fish and Game Code section 3513 makes it unlawful to take or possess any migratory nongame bird except as provided by rules and regulations adopted by the Secretary of the Interior under provisions of the Migratory Bird Treaty Act of 1918, as amended (16 U.S.C. § 703 et seq.).

With regard to the CVMSHCP, per its associated Permits from CDFW and the U.S. Fish and Wildlife Service (collectively the Wildlife Agencies) and the Implementing Agreement, Authorized Take incidental to Covered Activities must be consistent with, and in compliance with, local, state, and federal laws including, but not limited to, California Fish and Game Code sections 3503 and 3503.5 and the federal Migratory Bird Treaty Act of 1918. Therefore, all Covered Activities within the Plan Area, whether they are within or outside Conservation Areas, must undertake measures to avoid the take of individuals, nests, and eggs of nesting birds and birds of prey. The CVMSHCP includes a general conservation measure that applies to all bird species, including, but not limited to, all Covered birds and birds of prey, to avoid impacts to habitat during the nesting season (CVMSHCP Section 9.7). Per IA Section 13.13, MSWD is obligated to implement the applicable requirements of the Wildlife Agencies' Permits, the Implementing Agreement, and the CVMSHCP for its Covered Activities, including ensuring compliance with state and federal laws that protect nesting birds and birds of prey. The CDFW Natural Community Conservation Plan (NCCP) Permit #2835-2008-001-06 does not provide Take Authorization for burrowing owl individuals, nests, or eggs.

2-6 cont'd

Page 4 of the Project's Biological Resources Assessment (Biological Assessment), dated January 2026, states "Burrowing owl could occur within the Project Area due to the proximity of documented occurrences and the species' ability to tolerate human disturbance. Field survey results for burrowing owl were negative, with very few potentially suitable burrows observed. Their potential to occur within the Project Area is low also due to limited marginal habitat as a result of development and habitat fragmentation." However, Page 21 of the Biological Assessment indicates that "BUOW have been documented adjacent to Areas A, G, I-10 and K." CDFW notes that suitable nesting and foraging habitat for burrowing owl exist within and adjacent to the Project's linear alignment including, but not limited to, areas within the Upper Mission Creek/Big Morongo Canyon Conservation Area, the Willow Hole Conservation Area, vacant and developed areas associated with the I-10 and North Indian Canyon Drive Corridor Area, and other vacant and disturbed lots throughout the Project area. In addition, burrowing owls frequently move into disturbed areas prior to and during construction activities since they are adapted to highly modified habitats (Chipman et al. 2008[2]; Coulombe 1971[3]).

Although general field surveys were conducted for the MND, no focused surveys were conducted for burrowing owl. Because the MND lacks the findings of recent focused surveys for burrowing owl, the number and locations of suitable and occupied burrows within the Project site are unknown. CDFW recommends focused surveys consistent with the timing and frequency of surveys described in Appendix D of the *Staff Report on Burrowing Owl*

[2] Chipman, E. D., N. E. McIntyre, R. E. Strauss, M. C. Wallace, J. D. Ray, and C. W. Boal. 2008. Effects of human land use on western burrowing owl foraging and activity budgets. Journal of Raptor Research 42(2): 87-98.
[3] Coulombe, H. N. 1971. Behavior and population ecology of the Burrowing Owl, Speotyto cunicularia, in the Imperial Valley of California. Condor 73:162–176.

2-6 The comment pertains to the analysis in the IS/MND of burrowing owl (BUOW), and indicates that the commenter believes the mitigation identified to protect burrowing owl is not sufficient to fully protect this species from impacts resulting from the proposed project. As stated above under response to comment 2-5, the BRA was prepared on a site specific level to identify potential biological constraints, but the mitigation actions were prepared at a Programmatic level to address the progression of the Project's 20-year implementation. Thus, the requirement for protocol level surveys prior to construction has been identified.

Mitigation,[4] or other protocol agreed upon by CDFW, are conducted prior to initiation of Project activities. Recent focused surveys, conducted prior to Project construction, are needed to provide adequate time to coordinate with CDFW on appropriate avoidance, minimization, and mitigation measures if burrowing owls are detected and support the Project in avoiding or reducing impacts to burrowing owl to a level less than significant.

2-6 cont'd The MND includes Mitigation Measure BIO-8 for burrowing owl, but the measure lacks a requirement to conduct pre-construction surveys. Pre-construction surveys for burrowing owl conducted close to Project start ensure that any burrowing owls that may have moved onto the site between the time of focused surveys and start of construction activities are detected and that appropriate avoidance, minimization, and mitigation measures are implemented. Without requirements for pre-construction surveys in Mitigation Measure BIO-8, CDFW considers the measure to be inadequate in scope and timing to avoid or reduce impacts to burrowing owl to a level less than significant.

To support MSWD in avoiding or reducing impacts to burrowing owl to a level less than significant, CDFW recommends MSWD revise Mitigation Measure BIO-8 with the following additions in **bold** and removals in ~~strikethrough~~:

Mitigation Measure BIO-8: Burrowing Owl Focused and Pre-Construction Surveys

Each area or project considered under this GQPP Septic to Sewer Update umbrella shall be required to conduct focused burrowing owl surveys. ~~The burrowing owl surveys shall be conducted by a qualified biologist in accordance with the Staff Report on Burrowing Owl Mitigation (2012 or most recent version) prior to any construction activities, including vegetation- or ground-disturbing activities.~~ 2-7 **Suitable burrowing owl habitat has been confirmed within the Project site and surrounding area; therefore, focused burrowing owl surveys shall be conducted by a CDFW-approved qualified biologist within all suitable habitat prior to all vegetation- or ground-disturbing activities throughout the Project's subareas and phased timeline. CDFW strongly recommends that focused surveys are conducted in accordance with the *Staff Report on Burrowing Owl Mitigation* (2012 or most recent version)[5].** If burrowing owls are detected during the focused surveys, the qualified biologist and MSWD shall begin coordination with CDFW and USFWS immediately, and shall submit the results of focused surveys to CDFW and USFWS as soon results become available and before commencement of any project activities, including any vegetation- or ground-disturbing activities. **CDFW recommends that the** ~~The~~ information included in the survey results should be consistent with Appendix D of the Staff Report on Burrowing Owl Mitigation,

[4] California Department of Fish and Game (CDFG). 2012. Staff report on burrowing owl mitigation. State of California, Natural Resources Agency. Available for download at: https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=83843&inline
[5] California Department of Fish and Wildlife (CDFW). 2012. Staff Report on Burrowing Owl Mitigation. State of California, Natural Resources Agency. Available for download at: https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=83843.

2-7 The comment details the changes to MM BIO-8 to address the suggested changes from response to comment 2-6. The comment is noted and will be made available to the District decision-makers for consideration prior to a decision on the proposed Project. The District appreciates CDFW's feedback on the potential impacts to burrowing owl. The District appreciates CDFW's recommended changes to MM BIO-8, as it pertains to Burrowing Owl. As such, the District concurs with intent of CDFW's modifications to MM BIO-8, and proposes the following modified measure (modifications are underlined), which is hereby incorporated by reference into the Final IS/MND.

BIO-1 *Each area or project considered under this GQPP Septic to Sewer Update umbrella shall be required to conduct focused burrowing owl surveys. ~~The burrowing owl surveys shall be conducted by a qualified biologist in accordance with the Staff Report on Burrowing Owl Mitigation (2012 or most recent version) prior to any construction activities, including vegetation- or ground-disturbing activities.~~ Suitable burrowing owl habitat has been confirmed within the Project site and surrounding area; therefore, focused burrowing owl surveys shall be conducted by a qualified biologist within all suitable habitat prior to all vegetation- or ground-disturbing activities throughout the Project's subareas and phased timeline. CDFW strongly recommends that focused surveys are conducted in accordance with the Staff Report on Burrowing Owl Mitigation (2012 or most recent version).[1] If burrowing owls are detected during the focused surveys, the qualified biologist and MSWD shall begin coordination with CDFW and USFWS immediately, and shall submit the results of focused surveys to CDFW and USFWS as soon results become available and before commencement of any project activities, including any vegetation- or ground- disturbing activities. CDFW recommends that the information included in the survey results should be consistent with Appendix D of the Staff Report on Burrowing Owl Mitigation, including a detailed map showing locations of all burrowing owls, burrowing owl sign, potential burrows, and occupied burrows (occupied means at least one burrowing owl or its sign has been observed within the last three years; may be indicated by owl sign including feathers, pellets, prey remains, eggshell fragments, or excrement at or near a burrow entrance or perch site); a description of the behavior of burrowing owls during surveys; a description of survey methods; and other items listed in Appendix D of the Staff Report on Burrowing Owl Mitigation under "Survey Reports." Consultation with CDFW and USFWS must be completed prior to commencement of any Project activities, including vegetation- or ground-disturbing activities. If impacts to occupied burrowing owl habitat or burrow(s) or burrowing owl individuals, nests, or eggs cannot be avoided, ~~appropriate NCCP (Fish and Game Code section 2835)~~ or CESA authorization (i.e., Incidental Take Permit under Fish and Game Code section 2081(b)) should be obtained from CDFW prior to commencement of project activities, including vegetation- or ground-disturbing activities.*

Preconstruction burrowing owl surveys shall be conducted no less than 14 days prior to the start of Project-related activities and again within 24 hours prior to ground disturbance. Preconstruction surveys should be repeated when there is a pause in construction of more than 30 days. Preconstruction surveys shall be performed by a CDFW-approved qualified biologist, and CDFW strongly recommends that

[1] California Department of Fish and Wildlife (CDFW). 2012. Staff Report on Burrowing Owl Mitigation. State of California, Natural Resources Agency. Available for download at: https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=83843.

preconstruction surveys follow the recommendations and guidelines provided in the Staff Report on Burrowing Owl Mitigation. If the preconstruction surveys confirm occupied burrowing owl habitat, Project activities shall be immediately halted and the qualified biologist shall coordinate with CDFW and USFWS. Project activities shall not begin until consultation with CDFW and USFWS is completed.

The above measure replaces MMs BIO-1 through BIO-3 with one single measure, and as a result these measures are henceforth omitted from the Final IS/MND, and are not provided above as text with strikeout. The above modification constitutes a modification to a mitigation measure that does not require recirculation pursuant to CEQA Section 15073.5(c). A written finding shall be adopted in the resolution proposed for adoption of this IS/MND that finds that the above measure is equivalent or more effective in mitigation or avoiding potential significant effects and that it in itself will not cause any potentially significant effect on the environment pursuant to CEQA Section 15074.1. The above measure would be equal to or more effective than that which was incorporated into the Initial Study.

including a detailed map showing locations of all burrowing owls, burrowing owl sign, potential burrows, and occupied burrows (occupied means at least one burrowing owl or its sign has been observed within the last three years; may be indicated by owl sign including feathers, pellets, prey remains, eggshell fragments, or excrement at or near a burrow entrance or perch site); a description of the behavior of burrowing owls during surveys; a description of survey methods; and other items listed in Appendix D of the Staff Report on Burrowing Owl Mitigation under "Survey Reports." Consultation with CDFW and USFWS must be completed prior to commencement of any Project activities, including vegetation- or ground-disturbing activities. If impacts to occupied burrowing owl habitat or burrow(s) or burrowing owl individuals, nests, or eggs cannot be avoided, ~~appropriate NCCP (Fish and Game Code section 2835) or~~ CESA authorization (i.e., Incidental Take Permit under Fish and Game Code section 2081(b)) should be obtained from CDFW prior to commencement of project activities, including vegetation- or ground-disturbing activities.

2-7 cont'd

Preconstruction burrowing owl surveys shall be conducted no less than 14 days prior to the start of Project-related activities and again within 24 hours prior to ground disturbance. Preconstruction surveys should be repeated when there is a pause in construction of more than 30 days. Preconstruction surveys shall be performed by a CDFW-approved qualified biologist, and CDFW strongly recommends that preconstruction surveys follow the recommendations and guidelines provided in the *Staff Report on Burrowing Owl Mitigation*. If the preconstruction surveys confirm occupied burrowing owl habitat, Project activities shall be immediately halted and the qualified biologist shall coordinate with CDFW and USFWS. Project activities shall not begin until consultation with CDFW and USFWS is completed.

Pursuant to the CEQA Guidelines, section 15097(f), CDFW has prepared a draft mitigation monitoring and reporting program (MMRP) in Attachment 1 for revised MM BIO-8 and MM BIO-10, as well as CDFW-recommended MM BIO-[A].

2) CDFW Lake and Streambed Alteration Program

Fish and Game Code section 1602 requires an entity to notify CDFW prior to commencing any activity that may do one or more of the following: substantially divert or obstruct the natural flow of any river, stream or lake; substantially change or use any material from the bed, channel or bank of any river, stream, or lake; or deposit debris, waste or other materials that could pass into any river, stream or lake. Note that "any river, stream or lake" includes those that are episodic (i.e., those that are dry for periods of time) as well as those that are perennial (i.e., those that flow year-round). This includes ephemeral streams, desert washes, and watercourses with a subsurface flow. It may also apply to work undertaken within the flood plain of a body of water.

2-8

The MND includes Mitigation Measure BIO-9, which indicates "for the Little Morongo Creek at Augusta Avenue, California Department of Fish and Wildlife (CDFW) shall be notified

2-8 The comment pertains to CDFW Lake and Streambed Alteration, and acknowledges that the IS/MND includes a **MM BIO-9,** which requires notification to CDFW pursuant to Fish and Game Code Section 1602 as it pertains to the Project's potential to impact jurisdictional features. The commenter believes that additional streams subject to Fish and Game Code Section 1602 could be impacted by the project. Respectfully, the District confirms that the BRA included site specific surveys of the entire project alignment to confirm whether the project would impact jurisdictional features. The referenced potential jurisdictional features in this comment along 19th and 20th Avenues do not exist because the land between 20th Avenue and 19th Avenue has been graded and is either developed or in the process of being developed, leaving no jurisdictional features remaining (refer to current aerial images from Google Earth). Thus, while the District acknowledges the need for compliance with Fish and Game Code Section 1602 for the features identified in the IS/MND, no other features have been identified that warrant modifications to **MM BIO-9.**

pursuant to Fish and Game Code section 1602." CDFW notes that additional streams subject to Fish and Game Code section 1600 et seq. beyond Little Morongo Creek at Augusta Avenue have the potential to be impacted by the Project. For example, proposed pipelines extending east to the Wastewater Treatment Plant in the I-10 Corridor Area may potentially impact streams that traverse developed and vacant areas along 19th Avenue and 20th Avenue. Additionally, page 7 of the MND indicates that "The project will utilize open cut trenching for a vast majority of the sewer reaches and septic abatement areas, with jack and bore techniques for certain small areas." CDFW notes that the entry and exit pits and frac-outs associated with jack and bore techniques have the potential to impact streams. Limited information is provided in the MND on where jack and bore techniques would be used. Due to Mitigation Measure BIO-9 limiting notification to CDFW for impacts to streams associated with only Little Morongo Creek at Augusta Avenue, CDFW considers the mitigation measure to be inadequate in scope to reduce impacts to biological resources to a level less than significant.

2-8 cont'd

CDFW recommends the MND is revised to include additional details on where jack and bore techniques will be used and discuss potential impacts to streams beyond Little Morongo Creek at Augusta Avenue. To support MSWD in avoiding or reducing impacts to streams to less than significant, CDFW recommends adding the following Mitigation Measure to a revised MND:

Mitigation Measure BIO-[A]: CDFW Lake and Streambed Alteration Program

Prior to construction and issuance of any grading permit, the Project Sponsor shall obtain written correspondence from the California Department of Fish and Wildlife (CDFW) stating that notification under section 1602 of the Fish and Game Code is not required for the Project, *or* the Project Sponsor should obtain a CDFW-executed Lake and Streambed Alteration Agreement, authorizing impacts to Fish and Game Code section 1602 resources associated with the Project.

3) Nesting Birds

It is the Project proponent's responsibility to comply with all applicable laws related to nesting birds and birds of prey. Fish and Game Code sections 3503, 3503.5, and 3513 afford protective measures as follows: section 3503 states that it is unlawful to take, possess, or needlessly destroy the nest or eggs of any bird, except as otherwise provided by Fish and Game Code or any regulation made pursuant thereto. Fish and Game Code section 3503.5 makes it unlawful to take, possess, or destroy any birds in the orders Falconiformes or Strigiformes (birds-of-prey) or to take, possess, or destroy the nest or eggs of any such bird except as otherwise provided by Fish and Game Code or any regulation adopted pursuant thereto. Fish and Game Code section 3513 makes it unlawful to take or possess any migratory nongame bird except as provided by rules and regulations adopted by the Secretary of the Interior under provisions of the Migratory Bird Treaty Act of 1918, as

2-9

amended (16 U.S.C. § 703 et seq.).

With regard to the CVMSHCP, per its associated Implementing Agreement and Permits from CDFW and the U.S. Fish and Wildlife Service (the Wildlife Agencies), Take associated with Covered Activities will not be in violation of the Migratory Bird Treaty Act and will be consistent with Fish and Game Code sections 3503 and 3503.5; therefore, all Covered Activities within and outside Conservation Areas must undertake measures to avoid the take of individuals, nests, and eggs of nesting birds. The CVMSHCP includes a general conservation measure that applies to all bird species to avoid impacts to habitat for nesting birds during the nesting season (CVMSHCP Section 9.7). Per IA Section 13.2, MSWD is obligated to ensure the projects to which it confers Take Authorization under the CVMSHCP comply with all terms and requirements of the CVMSHCP, the Wildlife Agencies' Permits that create the CVMSHCP, and the Implementing Agreement, including compliance with laws that protect nesting birds.

2-9 cont'd

The MND indicates on page 61, "In general, impacts to all bird species (common and special status) can be avoided by conducting work outside of the nesting season, which is generally February 1st through August 31st." CDFW recommends to the greatest extent feasible that Project activities, including ground disturbing and vegetation removal activities, are conducted outside of the peak nesting bird season. CDFW also recommends the completion of nesting bird surveys *regardless* of the time of year to ensure that impacts to nesting birds and their nests and eggs are avoided. The timing of the nesting season varies greatly depending on several factors, such as bird species, weather conditions in any given year, and long-term climate changes (e.g., drought, warming, etc.). In response to warming, birds have been reported to breed earlier, thereby reducing temperatures that nests are exposed to during breeding and tracking shifts in availability of resources (Socolar et al., 2017[6]). CDFW staff have observed that climate change conditions may result in the nesting bird season occurring earlier and later in the year than historical nesting season dates. CDFW recommends that disturbance of occupied nests of resident and migratory birds and raptors within the Project site and surrounding area be avoided any time birds are nesting on-site. CDFW therefore recommends the completion of nesting bird surveys *regardless of the time of year* to ensure compliance with all applicable laws pertaining to nesting and migratory birds.

To support MSWD in avoiding or reducing impacts to nesting birds to a level less than significant, CDFW recommends Mitigation Measure BIO-10 is revised with the following additions in **bold** and removals in ~~strikethrough~~:

Mitigation Measure BIO-10: Nesting Birds

[6] Socolar JB, Epanchin PN, Beissinger SR and Tingley MW (2017). Phenological shifts conserve thermal niches. Proceedings of the National Academy of Sciences 114(49): 12976-12981.

2-9 The comment pertains to the analysis in the IS/MND of nesting birds, and indicates that the Initial Study suggests that nesting bird surveys occur only during nesting season, but the commenter recommends that surveys be conducted regardless of the time of year. The suggested changes to MM BIO-10 are addressed in response to comment 2-10, below.

To the greatest extent feasible, the Project will avoid construction and any ground-disturbing activities during the peak nesting season (January 15 through September 15). Regardless of the time of year, ~~a preconstruction survey shall be performed to verify absence of nesting birds~~ **nesting bird surveys shall be performed by a CDFW-approved**~~.~~ A qualified **avian** biologist ~~shall conduct the pre-activity survey~~ within the project areas (including access routes) and a 500-foot buffer surrounding the project areas, no more than three (3) days prior to the initiation of project activities, including, but not limited to clearing, grubbing, and/or rough grading to prevent impacts to birds and their nests. Pre-construction surveys shall focus on both direct and indirect evidence of nesting, including nest locations and nesting behavior. The qualified biologist shall make every effort to avoid potential nest predation as a result of survey and monitoring efforts. If nesting bird activity is present within the work area or the project's zone of influence (generally 100-300 feet), a no disturbance buffer zone shall
2-10 be established by the qualified biologist to be marked on the ground around each nest. **Nest buffers are species specific and** ~~The buffer~~ shall be a minimum of 500 feet for raptors and 300 feet for songbirds~~, unless a~~**. A** smaller **or larger** buffer ~~is specifically~~ **may be** determined by **the**~~a~~ qualified biologist familiar with the nesting phenology of the nesting species **and based on nest and buffer monitoring results**. The buffer areas shall be avoided until the nests are no longer occupied and the juvenile birds can survive independently from the nests. Active nest(s) and ~~an~~ **adequacy of the** established buffer distance(s) shall be monitored daily by the qualified biologist until the qualified biologist has determined the young have fledged or the project has been completed. The qualified biologist has the authority to stop work if nesting pairs exhibit signs of disturbance. If there is no nesting activity, then no further action is needed for this measure. If an active nest is encountered during the project construction, construction shall stop immediately until a qualified biologist can determine (1) the status of the nest, and (2) when work can proceed without risking violation to state or federal laws.

ENVIRONMENTAL DATA

CEQA requires that information developed in environmental impact reports and negative declarations be incorporated into a database which may be used to make subsequent or supplemental environmental determinations. (Pub. Resources Code, § 21003, subd. (e).)
2-11 Accordingly, please report any special-status species and natural communities detected during Project surveys to the California Natural Diversity Database (CNDDB). The CNNDB field survey form can be filled out and submitted online at the following link: https://wildlife.ca.gov/Data/CNDDB/Submitting-Data. The types of information reported to CNDDB can be found at the following link: https://www.wildlife.ca.gov/Data/CNDDB/Plants-and-Animals.

ENVIRONMENTAL DOCUMENT FILING FEES

2-12 The Project, as proposed, would have an impact on fish and/or wildlife, and assessment of environmental document filing fees is necessary. Fees are payable upon filing of the Notice of Determination by the Lead Agency and serve to help defray the cost of environmental

2-10 The District appreciates CDFW's recommended modifications to MM BIO-10, as it pertains to nesting birds. As these modifications retain the same intent of MM BIO-10, i.e. to protect nesting birds from adverse impacts as a result of project implementation, the District concurs with intent of CDFW's modifications to Mitigation Measure (MM) BIO-10 proposed in this comment, and proposes the following modified measure (modifications are underlined), which is hereby incorporated by reference into the Final IS/MND.

BIO-10 Regardless of the time of year, a preconstruction survey shall be performed to verify absence of nesting birds. A qualified biologist shall conduct the pre-activity survey within the project areas (including access routes) and a 500-foot buffer surrounding the project areas, no more than three (3) days prior to the initiation of project activities, including, but not limited to clearing, grubbing, and/or rough grading to prevent impacts to birds and their nests. Pre-construction surveys shall focus on both direct and indirect evidence of nesting, including nest locations and nesting behavior. The qualified biologist shall make every effort to avoid potential nest predation as a result of survey and monitoring efforts. If nesting bird activity is present within the work area or the project's zone of influence (generally 100-300 feet), a no disturbance buffer zone shall be established by the qualified biologist to be marked on the ground around each nest. Nest buffers are species specific and ~~The buffer~~ shall be a minimum of 500 feet for raptors and 300 feet for songbirds~~, unless a~~. A smaller or larger buffer ~~is specifically~~ may be determined by the ~~a~~ qualified biologist familiar with the nesting phenology of the nesting species and based on nest and buffer monitoring results. The buffer areas shall be avoided until the nests are no longer occupied and the juvenile birds can survive independently from the nests. Active nest(s) and ~~an~~ adequacy of the established buffer distance(s) shall be monitored daily by the qualified biologist until the qualified biologist has determined the young have fledged or the project has been completed. The qualified biologist has the authority to stop work if nesting pairs exhibit signs of disturbance. If there is no nesting activity, then no further action is needed for this measure. If an active nest is encountered during the project construction, construction shall stop immediately until a qualified biologist can determine (1) the status of the nest, and (2) when work can proceed without risking violation to state or federal laws.

The above modification constitutes a modification to a mitigation measure that does not require recirculation pursuant to CEQA Section 15073.5(c). A written finding shall be adopted in the resolution proposed for adoption of this IS/MND that finds that the above measure is equivalent or more effective in mitigation or avoiding potential significant effects and that it in itself will not cause any potentially significant effect on the environment pursuant to CEQA Section 15074.1. The above measure would be equal to or more effective than that which was incorporated into the Initial Study.

2-11 The comment requests that special status species and natural communities detected during the project be reported to California Natural Diversity Database (CNDDB). The District will report any special status species and natural communities detected during Project surveys to CNDDB. The link to CNDDB field survey form provided will be retained in the Project file, as will the email address that is provided in this comment. Additionally, the link pertaining to the types of information reported to CNDDB will be retained in the Project file.

2-12 The comment pertains to the payment of environmental filing fees related to CDFW. The District understands the assessment of CDFW filing fees, and understands that MSWD will be responsible for the payment of a filing fee upon filing the Notice of Determination for this Project.

2-12 cont'd review by CDFW. Payment of the environmental document filing fee is required in order for the underlying Project approval to be operative, vested, and final. (Cal. Code Regs, tit. 14, § 753.5; Fish & G. Code, § 711.4; Pub. Resources Code, § 21089.)

CONCLUSION

2-13 CDFW appreciates the opportunity to comment on the MND to assist MSWD in identifying and mitigating Project impacts to biological resources. CDFW concludes that the MND does not adequately identify or mitigate the Project's significant, or potentially significant, impacts to biological resources. CDFW recommends that revised and additional mitigation measures and analysis as described in this letter be added to a revised MND.

CDFW personnel are available for consultation regarding biological resources and strategies to avoid and minimize impacts. Questions regarding this letter or further coordination should be directed to Jacob Skaggs, Senior Environmental Scientist Specialist, at jacob.skaggs@wildlife.ca.gov.

Sincerely,

DocuSigned by:
Kim Freeburn
84F92FFEEFD24C8...

Kim Freeburn
Environmental Program Manager

Attachment 1: MMRP for CDFW-Proposed Mitigation Measures

ec:

Heather Brashear, CDFW
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2-13 This is a conclusory comment. The District thanks CDFW for the comments and for the commenter's time. The contact information provided in this comment will be retained in the Project file.

ATTACHMENT 1: MITIGATION MONITORING AND REPORTING PROGRAM (MMRP)

Mitigation Measures	Timing and Methods	Responsible Parties
Mitigation Measure BIO-8: Burrowing Owl Focused and Pre-Construction Surveys **Each area or project considered under this GQPP Septic to Sewer Update umbrella shall be required to conduct focused burrowing owl surveys. Suitable burrowing owl habitat has been confirmed within the Project site and surrounding area; therefore, focused burrowing owl surveys shall be conducted by a CDFW-approved qualified biologist within all suitable habitat prior to all vegetation- or ground-disturbing activities throughout the Project's subareas and phased timeline. CDFW strongly recommends that focused surveys are conducted in accordance with the *Staff Report on Burrowing Owl Mitigation* (2012 or most recent version)[7]. If burrowing owls are detected during the focused surveys, the qualified biologist and MSWD shall begin coordination with CDFW and USFWS immediately, and shall submit the results of focused surveys to CDFW and USFWS as soon results become available and before commencement of any project activities, including any vegetation- or ground-disturbing activities. CDFW recommends that the information included in the survey results should be consistent with Appendix D of the Staff Report on Burrowing Owl Mitigation, including a detailed map showing locations of all burrowing owls, burrowing owl sign, potential burrows, and occupied burrows (occupied means at least one burrowing owl or its sign has been observed within the last three years; may be indicated by owl sign including feathers, pellets, prey remains, eggshell fragments, or excrement at or near a burrow entrance or perch site); a description of the behavior of burrowing owls during surveys; a description of survey methods; and other items listed in Appendix D of the Staff Report on Burrowing Owl Mitigation under "Survey Reports." Consultation with CDFW and USFWS must be completed prior to commencement of any Project activities, including vegetation- or ground-disturbing activities. If impacts to occupied burrowing owl**	**Timing: Focused surveys:** Consistent with timing in Appendix D of the Staff Report on Burrowing Owl Mitigation and prior to commencement of any Project activities, including vegetation- or ground-disturbing activities. **Pre-construction surveys:** No less than 14 days prior to start of Project-related activities and again within 24 hours prior to ground disturbance and when there is a pause in construction of more than 30 days. **Methods:** See Mitigation Measure.	**Implementation**: Mission Springs Water District **Monitoring and Reporting**: Mission Springs Water District

2-14

[7] California Department of Fish and Wildlife (CDFW). 2012. Staff Report on Burrowing Owl Mitigation. State of California, Natural Resources Agency. Available for download at: https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=83843.

2-14 cont'd

habitat or burrow(s) or burrowing owl individuals, nests, or eggs cannot be avoided, CESA authorization (i.e., Incidental Take Permit under Fish and Game Code section 2081(b)) should be obtained from CDFW prior to commencement of project activities, including vegetation- or ground-disturbing activities. **Preconstruction burrowing owl surveys shall be conducted no less than 14 days prior to the start of Project-related activities and again within 24 hours prior to ground disturbance. Preconstruction surveys should be repeated when there is a pause in construction of more than 30 days. Preconstruction surveys shall be performed by a CDFW-approved qualified biologist, and CDFW strongly recommends that preconstruction surveys follow the recommendations and guidelines provided in the *Staff Report on Burrowing Owl Mitigation*. If the preconstruction surveys confirm occupied burrowing owl habitat, Project activities shall be immediately halted and the qualified biologist shall coordinate with CDFW and USFWS. Project activities shall not begin until consultation with CDFW and USFWS is completed.**		
Mitigation Measure BIO-[A]: CDFW Lake and Streambed Alteration Program **Prior to construction and issuance of any grading permit, the Project Sponsor shall obtain written correspondence from the California Department of Fish and Wildlife (CDFW) stating that notification under section 1602 of the Fish and Game Code is not required for the Project, *or* the Project Sponsor should obtain a CDFW-executed Lake and Streambed Alteration Agreement, authorizing impacts to Fish and Game Code section 1602 resources associated with the Project.**	**Timing:** Prior to construction and issuance of any grading permit **Methods:** See Mitigation Measure	**Implementation**: Mission Springs Water District **Monitoring and Reporting**: Mission Springs Water District
Mitigation Measure BIO-10: Nesting Birds **To the greatest extent feasible, the Project will avoid construction and any ground-disturbing activities during the peak nesting season (January 15 through September 15). Regardless of the time of year, nesting bird surveys shall be performed by a CDFW-approved qualified avian biologist within the project areas (including access routes) and a 500-foot buffer surrounding the project areas, no more than**	**Timing:** No more than 3 days prior to vegetation removal or ground-disturbing activities. **Methods:** See Mitigation	**Implementation**: Mission Springs Water District **Monitoring and Reporting**: Mission Springs Water District

2-14 cont'd	**three (3) days prior to the initiation of project activities, including, but not limited to clearing, grubbing, and/or rough grading to prevent impacts to birds and their nests. Pre-construction surveys shall focus on both direct and indirect evidence of nesting, including nest locations and nesting behavior. The qualified biologist shall make every effort to avoid potential nest predation as a result of survey and monitoring efforts. If nesting bird activity is present within the work area or the project's zone of influence (generally 100-300 feet), a no disturbance buffer zone shall be established by the qualified biologist to be marked on the ground around each nest. Nest buffers are species specific and shall be a minimum of 500 feet for raptors and 300 feet for songbirds. A smaller or larger buffer may be determined by the qualified biologist familiar with the nesting phenology of the nesting species and based on nest and buffer monitoring results. The buffer areas shall be avoided until the nests are no longer occupied and the juvenile birds can survive independently from the nests. Active nest(s) and adequacy of the established buffer distance(s) shall be monitored daily by the qualified biologist until the qualified biologist has determined the young have fledged or the project has been completed. The qualified biologist has the authority to stop work if nesting pairs exhibit signs of disturbance. If there is no nesting activity, then no further action is needed for this measure. If an active nest is encountered during the project construction, construction shall stop immediately until a qualified biologist can determine (1) the status of the nest, and (2) when work can proceed without risking violation to state or federal laws.**	Measure	

2-14 The District has addressed the mitigation measures requested to be incorporated into the Final IS/MND by CDFW in comments 2-5 and 2-6. The District has incorporated the proposed modifications to MM BIO-8 to address CDFW's recommendations in comment 2-6 and 2-7. The District has incorporated the proposed modifications to MM BIO-10 to address CDFW's recommendations in comment 2-9 and 2-10. The modifications to MM BIO-9 proposed in comment 2-8 have not been incorporated into this IS/MND as the modifications were deemed not applicable or necessary to ensure protection of jurisdictional features. The items listed under Schedule and Responsible Party as they pertain to the MMs that will be incorporated into the Final IS/MND will be inputted into the MMRP, as applicable. The District appreciates CDFW's initiative in developing an MMRP for the proposed mitigation measures.

MITIGATION MONITORING AND REPORTING PROGRAM

MISSION SPRINGS WATER DISTRICT
GROUNDWATER QUALITY PROTECTION PROGRAM SEPTIC TO SEWER PROJECT
MITIGATION MONITORING AND REPORTING PROGRAM (MMRP)

Mitigation Measure	Implementation Schedule	Verification
Aesthetics AES-1 The project shall implement at least the following measures, unless they conflict with the local jurisdiction's light requirements, in which case the local jurisdiction's requirements shall be enforced: • Use of low-pressure sodium lights where security needs require such lighting to minimize impacts of glare. • The height of lighting fixtures shall be lowered to the lowest level consistent with the purpose of the lighting to reduce unwanted illumination. • Directing light and shielding shall be used to minimize off-site illumination during both construction of the project. • No light shall be allowed to intrude into sensitive light receptor areas during both construction of the project. • Non-reflective materials and/or coatings shall be used on the exterior of all facilities if constructed in a publicly visible location (such as from a roadway or public facility).	The measure shall be incorporated into individual project design specifications, which shall be included in the construction contract as a contract specification and implemented by the contractor during construction.	A copy of the construction contract including this aesthetic mitigation measure shall be retained in the project file(s). Verification of implementation shall be based on field inspections by the District. Field notes documenting verification shall be retained in the project file.

Source	Responsible Party	Status / Date / Initials
Initial Study	Mission Springs Water District (MSWD)	

Mitigation Measure	Implementation Schedule	Verification
Biological Resources BIO-1 Exclusion barriers (e.g., silt fences) will be installed at the edge of the construction footprint and along the outer perimeter of Environmentally Sensitive Areas and Environmentally Restricted Areas as defined by the project biologist prior to the commencement of construction activities to restrict special-status species from entering the construction area during construction. The design specifications of the exclusion fencing will be determined through consultation with the USFWS and/or CDFW, as appropriate. Clearance surveys will be conducted for special-status species after the exclusion fence is installed in compliance with USFWS and/or	This measure shall be implemented during construction and shall be included in the construction contract as a contract specification.	A copy of the construction contract shall be retained in the project file. Verification of implementation shall be based on field inspections by the District. Field notes from inspections shall be retained in the project file.

MISSION SPRINGS WATER DISTRICT
GROUNDWATER QUALITY PROTECTION PROGRAM SEPTIC TO SEWER PROJECT
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Mitigation Measure	Implementation Schedule	Verification
CDFW requirements. The project biologist shall determine the frequency in which clearance surveys will be conducted to determine the efficacy of the exclusion fencing.		

Source	Responsible Party	Status / Date / Initials
Initial Study	MSWD	

Mitigation Measure	Implementation Schedule	Verification
Biological Resources BIO-2 All food-related trash items (e.g., wrappers, cans, bottles, food scraps) will be disposed of in closed containers and removed at least once a week from the construction site.	The survey(s) shall be conducted prior to construction. All actions pertaining to the discovery of burrowing owl shall occur prior to or during construction depending on the direction within the impact minimization plan.	A copy of the survey(s), and where required, the impact minimization plan, shall be retained in the project file. Verification of implementation shall be based on field inspections by the District. Field notes from inspections shall be retained in the project file.

Source	Responsible Party	Status / Date / Initials
Initial Study	MSWD	

Mitigation Measure	Implementation Schedule	Verification
Biological Resources BIO-3 Use of rodenticides and herbicides in the project footprint will be restricted at the direction of the project biologist. This measure is necessary to prevent poisoning of special-status species and the potential reduction or depletion of the prey populations of special–status wildlife species. Where pesticides must be used, they must be used in full accordance with use instructions for the particular chemical and at the direction of the project biologist.	This measure shall be implemented during construction and shall be included in the construction contract as a contract specification. Additionally, this measure shall be implemented ongoing during operation.	A copy of the construction contract shall be retained in the project file. Verification of implementation shall be based on field inspections by the District. Field notes from inspections shall be retained in the project file. During operations, site inspections by the District shall be performed to ensure adherence to this measure.

Source	Responsible Party	Status / Date / Initials
Initial Study	MSWD	

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Mitigation Measure	Implementation Schedule	Verification
Biological Resources BIO-4 Prior to the commencement of construction, MSWD shall identify staging areas for construction equipment to be utilized during construction that will be located outside sensitive biological resources areas, including habitat for special-status species, jurisdictional waters, and wildlife movement corridors. During construction and operation, the contractor shall eliminate all nonessential lighting throughout the project area and avoid or limit the use of artificial light during the hours of dawn and dusk when many wildlife species are most active. The contractor shall ensure that construction lighting for project activities is shielded, cast downward, and does not spill over onto other properties or upward into the night sky. The contractor shall ensure use of LED lighting with a correlated color temperature of 3,000 Kelvins or less, proper disposal of hazardous waste, and recycling of lighting that contains toxic compounds with a qualified recycler.	This measure shall be implemented during construction and shall be included in the construction contract as a contract specification. Additionally, this measure shall be implemented ongoing during operation.	A copy of the construction contract shall be retained in the project file. Verification of implementation shall be based on field inspections by the District. Field notes from inspections shall be retained in the project file. During operations, site inspections by the District shall be performed to ensure adherence to this measure.

Source	Responsible Party	Status / Date / Initials
Initial Study	MSWD	

Mitigation Measure	Implementation Schedule	Verification
Biological Resources BIO-5 Plastic mono-filament netting (erosion-control matting) or similar material will <u>not</u> be used in erosion control materials to prevent potential harm to wildlife. Materials such as coconut coir matting or tackified hydroseeding compounds will be used as substitutes.	This measure shall be implemented during construction and shall be included in the construction contract as a contract specification.	A copy of the construction contract shall be retained in the project file. Verification of implementation shall be based on field inspections by the District. Field notes from inspections shall be retained in the project file.

Source	Responsible Party	Status / Date / Initials
Initial Study	MSWD	

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GROUNDWATER QUALITY PROTECTION PROGRAM SEPTIC TO SEWER PROJECT
MITIGATION MONITORING AND REPORTING PROGRAM (MMRP)

Mitigation Measure	Implementation Schedule	Verification
Biological Resources BIO-6 All excavated, steep-sided holes or trenches more than 8 inches deep will be covered at the close of each working day with plywood or similar materials, or a minimum of one escape ramp constructed of earth fill for every 10 feet of trenching will be provided to prevent the entrapment of wildlife. Before such holes or trenches are filled, they will be thoroughly inspected for trapped animals. All culverts or similar enclosed structures with a diameter of 4 inches or greater will be covered, screened, or stored more than 1 foot off the ground to prevent use by wildlife. Stored material will be cleared for common and special-status wildlife species before the pipe is subsequently used or moved.	This measure shall be implemented during construction and shall be included in the construction contract as a contract specification.	A copy of the construction contract shall be retained in the project file. Verification of implementation shall be based on field inspections by the District. Field notes from inspections shall be retained in the project file.

Source	Responsible Party	Status / Date / Initials
Initial Study	MSWD	

Mitigation Measure	Implementation Schedule	Verification
Biological Resources BIO-7 Pre-Construction Consultations. Each area or project considered under this GQPP Septic to Sewer Update umbrella shall be required to consult with a biologist to determine the need for site-specific biological surveys. Where an area under this GQPP Septic to Sewer Update umbrella has been determined to require a site-specific survey by a biologist, in any case in which the project will affect undeveloped land, site surveys shall be conducted by a biologist. If sensitive species are identified as a result of the survey for which mitigation/compensation must be provided in accordance with regulatory requirements, all work must stop in the area until the following subsequent mitigation actions are taken: 1. MSWD shall provide compensation for sensitive habitat acreage lost by acquiring and protecting in perpetuity (through property or mitigation bank credit acquisition) habitat for the sensitive	The survey(s) shall be conducted prior to construction with sufficient time to allow for consultation where sensitive species are most anticipated to be encountered, if anticipated to be encountered at all. Where applicable, compensatory habitat shall be acquired prior to operation of the facility.	A copy of the survey(s) and any acquisition paperwork pertaining to compensatory habitat shall be retained in the project file. Verification of implementation shall be based on field inspections by the District, as well as by retaining the Incidental Take Permit (ITP). Field notes from inspections shall be retained in the project file.

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GROUNDWATER QUALITY PROTECTION PROGRAM SEPTIC TO SEWER PROJECT
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Mitigation Measure	Implementation Schedule	Verification
species at a ratio of not less than 1:1 for habitat lost. The property acquisition shall include the presence of at least one animal or plant per animal or plant lost at the development site to compensate for the loss of individual sensitive species. 2. The final mitigation may differ from the above values based on negotiations between the project proponent and USFWS and CDFW for any incidental take permits for listed species. MSWD shall retain a copy of the incidental take permit as verification that the mitigation of significant biological resource impacts at a project site with sensitive biological resources has been accomplished. 3. Preconstruction botanical surveys for special-status plant communities and special- status plant species will be conducted when needed in areas that were not previously surveyed because of access or timing issues or project design changes. Pre-construction surveys for special-status plant communities and special-status plant species will be conducted before the start of ground-disturbing activities during the appropriate blooming period(s) for the species.		

Source	Responsible Party	Status / Date / Initials
Initial Study	MSWD	

Mitigation Measure		Implementation Schedule	Verification
Biological Resources			
BIO-8	Each area or project considered under this GQPP Septic to Sewer Update umbrella shall be required to conduct focused burrowing owl surveys. ~~The burrowing owl surveys shall be conducted by a qualified biologist in accordance with the Staff Report on Burrowing Owl Mitigation (2012 or most recent version) prior to any construction activities, including vegetation or ground disturbing activities.~~ Suitable burrowing owl habitat has been confirmed within the Project site and surrounding area; therefore, focused burrowing owl surveys shall be conducted by a qualified biologist within all suitable habitat	The preconstruction survey shall be conducted in advance of construction, and this measure shall be implemented during construction and shall be included in the construction contract as a contract specification.	A copy of the construction contract shall be retained in the project file. Verification of implementation shall be based on field inspections by the District. Field notes from inspections shall be retained in the project file.

Mitigation Measure	Implementation Schedule	Verification
prior to all vegetation- or ground-disturbing activities throughout the Project's subareas and phased timeline. CDFW strongly recommends that focused surveys are conducted in accordance with the Staff Report on Burrowing Owl Mitigation (2012 or most recent version).[1] If burrowing owls are detected during the focused surveys, the qualified biologist and MSWD shall begin coordination with CDFW and USFWS immediately, and shall submit the results of focused surveys to CDFW and USFWS as soon results become available and before commencement of any project activities, including any vegetation- or ground- disturbing activities. CDFW recommends that the information included in the survey results should be consistent with Appendix D of the Staff Report on Burrowing Owl Mitigation, including a detailed map showing locations of all burrowing owls, burrowing owl sign, potential burrows, and occupied burrows (occupied means at least one burrowing owl or its sign has been observed within the last three years; may be indicated by owl sign including feathers, pellets, prey remains, eggshell fragments, or excrement at or near a burrow entrance or perch site); a description of the behavior of burrowing owls during surveys; a description of survey methods; and other items listed in Appendix D of the Staff Report on Burrowing Owl Mitigation under "Survey Reports." Consultation with CDFW and USFWS must be completed prior to commencement of any Project activities, including vegetation- or ground-disturbing activities. If impacts to occupied burrowing owl habitat or burrow(s) or burrowing owl individuals, nests, or eggs cannot be avoided, ~~appropriate NCCP (Fish and Game Code section 2835)~~ or CESA authorization (i.e., Incidental Take Permit under Fish and Game Code section 2081(b)) should be obtained from CDFW prior to commencement of project activities, including vegetation- or ground-disturbing activities.		

[1] California Department of Fish and Wildlife (CDFW). 2012. Staff Report on Burrowing Owl Mitigation. State of California, Natural Resources Agency. Available for download at: https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=83843.

Mitigation Measure	Implementation Schedule	Verification
Preconstruction burrowing owl surveys shall be conducted no less than 14 days prior to the start of Project-related activities and again within 24 hours prior to ground disturbance. Preconstruction surveys should be repeated when there is a pause in construction of more than 30 days. Preconstruction surveys shall be performed by a CDFW-approved qualified biologist, and CDFW strongly recommends that preconstruction surveys follow the recommendations and guidelines provided in the Staff Report on Burrowing Owl Mitigation. If the preconstruction surveys confirm occupied burrowing owl habitat, Project activities shall be immediately halted and the qualified biologist shall coordinate with CDFW and USFWS. Project activities shall not begin until consultation with CDFW and USFWS is completed.		

Source	Responsible Party	Status / Date / Initials
Initial Study and Responses to comments	MSWD	

Mitigation Measure	Implementation Schedule	Verification
Biological Resources		
BIO-9 For the Little Morongo Creek crossing at Augusta Avenue, California Department of Fish and Wildlife (CDFW) shall be notified pursuant to Fish and Game Code section 1602. If CDFW determines that the Project may substantially affect fish and wildlife resources, then CDFW shall issue a Streambed Alternation Agreement (Agreement). The Agreement shall include measures to avoid, minimize, and mitigate impacts to Fish and Game Code section 1602 resources. Through an Agreement from CDFW and/or other agencies (Corps, Regional Board [regulatory agencies]) with jurisdiction over impacts to jurisdictional waters, the District shall minimize discharge of fill to the extent feasible, and any discharge of fill not avoidable and all impacts to Fish and Game Code section 1602 resources shall be	If necessary, the regulatory permits shall be obtained prior to ground disturbance within the jurisdictional area and the conditions of the regulatory permits shall be implemented as defined in the regulatory permits.	A copy of the regulatory permits shall be retained in the project file(s), and verification that all conditions have been implemented shall be retained in the project file.

Mitigation Measure	Implementation Schedule	Verification
authorized and mitigated through compensatory mitigation in an Agreement. Mitigation shall be provided by restoration of temporary impacts, enhancement of existing resources, or for permanent impacts as follows: purchasing into CDFW, Corps, or Regional Board authorized mitigation bank; or by selecting a site near the Project site and enhancing it with a native riparian habitat or invasive species removal in accordance with a habitat mitigation plan approved by regulatory agencies; or by acquiring sufficient compensating habitat to meet regulatory agency requirements. Impacts to jurisdictional waters shall be mitigated at a minimum 1:1 ratio, with the ultimate compensatory mitigation ratio being determined through negotiation with regulatory agency, and never at a rate of less than 1:1. The ratio will rise based on the type of habitat, habitat quality, and presence of sensitive or listed plants or animals in the affected area. This ratio will be determined by the regulatory agency, and must be deemed sufficient by the regulatory agency issuing the permit to compensate for/offset the impacts to the jurisdictional waters and supported species and habitats therein. A Habitat Mitigation and Monitoring Proposal shall be prepared by a biologist or regulatory specialist and reviewed and approved by the appropriate regulatory agencies. These agencies (Corps, Regional Board, CDFW and any other applicable regulatory agency with jurisdiction over the proposed facility improvement) can impose greater mitigation requirements in their permits, but the District will utilize the ratios outlined above as the minimum required to offset or compensate for impacts to jurisdictional waters, riparian areas or other wetlands.		

Source	Responsible Party	Status / Date / Initials
Initial Study	MSWD	

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GROUNDWATER QUALITY PROTECTION PROGRAM SEPTIC TO SEWER PROJECT
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Mitigation Measure		Implementation Schedule	Verification
Biological Resources			
BIO-10	Regardless of the time of year, a preconstruction survey shall be performed to verify absence of nesting birds. A qualified biologist shall conduct the pre-activity survey within the project areas (including access routes) and a 500-foot buffer surrounding the project areas, no more than three (3) days prior to the initiation of project activities, including, but not limited to clearing, grubbing, and/or rough grading to prevent impacts to birds and their nests. Pre-construction surveys shall focus on both direct and indirect evidence of nesting, including nest locations and nesting behavior. The qualified biologist shall make every effort to avoid potential nest predation as a result of survey and monitoring efforts. If nesting bird activity is present within the work area or the project's zone of influence (generally 100-300 feet), a no disturbance buffer zone shall be established by the qualified biologist to be marked on the ground around each nest. Nest buffers are species specific and ~~The buffer~~ shall be a minimum of 500 feet for raptors and 300 feet for songbirds~~, unless a~~. A smaller or larger buffer ~~is specifically~~ may be determined by the ~~a~~ qualified biologist familiar with the nesting phenology of the nesting species and based on nest and buffer monitoring results. The buffer areas shall be avoided until the nests are no longer occupied and the juvenile birds can survive independently from the nests. Active nest(s) and ~~an~~ adequacy of the established buffer distance(s) shall be monitored daily by the qualified biologist until the qualified biologist has determined the young have fledged or the project has been completed. The qualified biologist has the authority to stop work if nesting pairs exhibit signs of disturbance. If there is no nesting activity, then no further action is needed for this measure. If an active nest is encountered during the project construction, construction shall stop immediately until a qualified biologist can determine (1) the status of the nest, and (2) when work can proceed without risking violation to state or federal laws.	A copy of the field survey documenting no nesting birds shall be completed prior to initiating construction within the nesting season.	The District shall document the dates of construction. If construction is proposed to occur within the nesting season, a copy of the field survey documenting the absence of nesting birds shall be retained in the project file. Any coordination with CDFW pertaining to nesting birds shall also be retained in the project file.

Source	Responsible Party	Status / Date / Initials
Initial Study and Responses to comments	MSWD	

MISSION SPRINGS WATER DISTRICT
GROUNDWATER QUALITY PROTECTION PROGRAM SEPTIC TO SEWER PROJECT
MITIGATION MONITORING AND REPORTING PROGRAM (MMRP)

Mitigation Measure	Implementation Schedule	Verification
Biological Resources		
BIO-11 The project shall be required to comply with the provisions of the Coachella Valley Multi-Species Habitat Conservation Plan requirements for projects adjacent to Conservation Areas, where construction occurs adjacent to Conservation Areas (the nearest Conservation Area is along the southern border of Area A and the northern border of Area K and J-2 (Upper Mission Creek Covered/Big Morongo Canyon Conservation Area) and the eastern border of Area I-10. 1) Drainage – Proposed Development adjacent to or within a Conservation Area shall incorporate plans to ensure that the quantity and quality of runoff discharged to the adjacent Conservation Area is not altered in an adverse way when compared with existing conditions. Stormwater systems shall be designed to prevent the release of toxins, chemicals, petroleum products, exotic plant materials or other elements that might degrade or harm biological resources or ecosystem processes within the adjacent Conservation Area. 2) Toxics – Land uses proposed adjacent to or within a Conservation Area that use chemicals or generate byproducts such as manure that are potentially toxic or may adversely affect wildlife and plant species, Habitat, or water quality shall incorporate measures to ensure that application of such chemicals does not result in any discharge to the adjacent Conservation Area. 3) Lighting – For proposed Development adjacent to or within a Conservation Area, lighting shall be shielded and directed toward the developed area. Landscape shielding or other appropriate methods shall be incorporated in project designs to minimize the effects of lighting adjacent to or within the adjacent Conservation Area in accordance with the guidelines to be included in the Implementation Manual. 4) Noise – Proposed Development adjacent to or within a Conservation Area that generates noise in excess of 75 dBA Leq hourly shall incorporate setbacks, berms, or walls, as	The provisions of the Coachella Valley Multi-Species Habitat Conservation Plan shall be incorporated into the project design prior to project implementation.	District personnel shall document that each requirement of the CVMSHCP has been complied with within the project design. A copy of the design documenting the this shall be retained in the project file.

Mitigation Measure	Implementation Schedule	Verification
appropriate, to minimize the effects of noise on the adjacent Conservation Area in accordance with the guidelines to be included in the Implementation Manual. 5) Invasives – Invasive, non-native plant species shall not be incorporated in the landscape for land uses adjacent to or within a Conservation Area. Landscape treatments within or adjacent to a Conservation Area shall incorporate native plant materials to the maximum extent Feasible; recommended native species are listed in Table 4-112 [of the CVMSHCP]. The plants listed in Table 4-113 [of the CVMSHCP] shall not be used within or adjacent to a Conservation Area. This list may be amended from time to time through a Minor Amendment with Wildlife Agency Concurrence.		

Source	Responsible Party	Status / Date / Initials
Initial Study	MSWD	

Mitigation Measure	Implementation Schedule	Verification
Cultural Resources CUL-1 Should any cultural resources be encountered during construction of these facilities, earthmoving or grading activities in the immediate area of the finds shall be halted and an onsite inspection shall be performed immediately by a qualified archaeologist. Responsibility for making this determination shall be with the District's onsite inspector. The archaeological professional shall assess the find, determine its significance, and make recommendations for appropriate mitigation measures within the guidelines of the California Environmental Quality Act.	Any response to exposed resources shall occur during construction. Any reports documenting management and findings for accidentally exposed resources shall be completed within one year of the discovery.	A copy of the documentation of findings where applicable shall be retained in the project file. Verification of implementation shall be based on field inspections by District inspection personnel. Field notes documenting verification shall be retained in the project file.

Source	Responsible Party	Status / Date / Initials
Initial Study	MSWD	

MISSION SPRINGS WATER DISTRICT
GROUNDWATER QUALITY PROTECTION PROGRAM SEPTIC TO SEWER PROJECT
MITIGATION MONITORING AND REPORTING PROGRAM (MMRP)

Mitigation Measure	Implementation Schedule	Verification
Cultural Resources CUL-2 Due to the heightened cultural sensitivity of the proposed project area, a Qualified Archaeologist (Secretary of the Interior's Standards and Guidelines) shall be present for excavations and other ground-disturbing operations that will reach beyond the roadbed fill (generally speaking the uppermost five to six feet of surface and near-surface soils) in the archaeologically sensitive areas (specifically within Areas H and I). A sufficient number of archaeological monitors shall be present each work day to ensure that simultaneously occurring ground disturbing activities receive thorough levels of monitoring coverage. A Monitoring and Treatment Plan that is reflective of the project mitigation shall be completed by the archaeological consultant and submitted to the District and shall be approved by the District prior to implementation. Any and all findings will be subject to the protocol detailed within the Monitoring and Treatment Plan.	The monitoring agreement with the archaeologist shall be entered into prior to construction. The Monitoring and Treatment Plan shall be developed prior to construction, and shall be agreed upon prior to construction involving ground disturbance. Any response to exposed resources shall occur during construction. This measure shall be included in the construction contract. The monitor, as specified in this measure, shall be present during the remainder of construction following any resource discovery.	A copy of the Monitoring and Treatment Plan thereof shall be retained in the project file. Verification of implementation shall be based on field inspections by District inspection personnel that verify the cultural resources monitoring and treatment plan is being implemented by the contractor as required in this measure. Field notes documenting verification shall be retained in the project file.

Source	Responsible Party	Status / Date / Initials
Initial Study	MSWD	

Mitigation Measure	Implementation Schedule	Verification
Cultural Resources CUL-3 If any potentially significant cultural remains are encountered, the mechanical excavations shall be halted or diverted while an archaeological team recovers the materials through procedures consistent to a Phase II archaeological testing program. These procedures should include, at a minimum, the following: • Hand excavations in the immediate vicinity of unearthed cultural remains to remove all artifacts; • Immediate notification of the Riverside County Coroner and consultation with the NAHC and local Native American groups if human remains or potential human remains are discovered, pursuant to California Health and Safety Code §7050.5 and	This measure shall be implemented during construction and included as part of the construction contract. Treatment of resources shall occur during and post construction as applicable.	A copy of all cultural resource reports and of the construction contract shall be retained in the project file. Verification of implementation shall be based on field inspections by the District. Any correspondence with SCCIC, EIC, NHMLAC, and/or SBCM shall be retained in the project file, including verification of receipt of applicable reports. Field notes from inspections shall be retained in the project file.

Mitigation Measure	Implementation Schedule	Verification
Public Resources Code §5097.98; • Cataloguing, laboratory analysis, and permanent curation of the recovered artifacts; • Compilation of archaeological site records and/or site record updates, as appropriate, to document any archaeological discoveries in the California Historical Resources Inventory; • Preparation of a final report as a comprehensive record of the research procedures and study findings.		

Source	Responsible Party	Status / Date / Initials
Initial Study	MSWD	

Mitigation Measure	Implementation Schedule	Verification
Geology and Soils GEO-1 For each site-specific project that is less than one acre in size requiring ground disturbing activities such as grading, the implementing agencies shall identify and implement BMPs to minimize soil erosion and loss of topsoil comparable to that which would be required under a SWPPP (BMPs may include, but are not limited to hay bales, wattles, detention basins, silt fences, coir rolls, etc.) to ensure that the discharge of the storm runoff from the construction site does not cause erosion downstream of the discharge point. If any substantial erosion or sedimentation occurs as a result of discharging storm water from a project construction site, any erosion or sedimentation damage shall be restored to pre-discharge conditions.	The BMPs identified pursuant to this measure, and the requirement that substantial erosion or sedimentation be restored to pre-discharge conditions shall be included in the construction contract as a contract specification and implemented by the contractor during construction.	A copy of the construction contract including this geology/soils mitigation measure shall be retained in the project file. Verification of implementation shall be based on field inspections by the District. Field notes documenting verification shall be retained in the project file.

Source	Responsible Party	Status / Date / Initials
Initial Study	MSWD	

MISSION SPRINGS WATER DISTRICT
GROUNDWATER QUALITY PROTECTION PROGRAM SEPTIC TO SEWER PROJECT
MITIGATION MONITORING AND REPORTING PROGRAM (MMRP)

Mitigation Measure	Implementation Schedule	Verification
Geology and Soils		
GEO-2 All earth-moving operations reaching beyond the disturbed surface soils (generally five to six feet in depth within the existing roadbed) shall be monitored by a qualified paleontological monitor. The monitor shall be prepared to quickly salvage fossils as they are unearthed to avoid construction delays and shall collect samples of sediments that are likely to contain fossil remains of small vertebrates or invertebrates. However, the monitor must have the power to temporarily halt or divert grading equipment to allow for the removal of abundant or large specimens. Collected samples of sediment shall be processed to recover small fossils, and all recovered specimens shall be identified and curated at a repository with permanent retrievable storage. A report of findings, including an itemized inventory of recovered specimens, shall be prepared upon completion of the procedures outlined above. The report shall include a discussion of the significance of the paleontological findings, if any. The report and the inventory, when submitted to the MSWD and the USACE, would signify completion of the statutory compliance process regarding paleontological resources.	Review by a qualified paleontologist shall occur prior to the commencement of construction, and if necessary, the report shall be drafted prior to construction. Any response to exposed resources shall occur during construction. Any reports documenting management and findings for accidentally exposed resources shall be completed within one year of the discovery.	The District shall be notified within 24-hours of accidental exposure of any paleontological resources. A copy of correspondence with the qualified paleontologist, and if applicable, the paleontology report, as well District and retained in the project file. A copy of the final report shall be retained in the project file.

Source	Responsible Party	Status / Date / Initials
Initial Study	MSWD	

Mitigation Measure	Implementation Schedule	Verification
Hazards and Hazardous Materials		
HAZ-1 For project facilities that handle hazardous materials or generate hazardous waste, the HMBP prepared and submitted to the CUPA shall incorporate BMPs designed to minimize the potential for accidental release of such chemicals and shall meet the standards	The provision of this measure shall be identified in the project Stormwater Pollution Prevention Plan (SWPPP) and implemented during construction.	A copy of the SWPPP shall be retained in the project file. Verification of implementation shall be based on field inspections by MSWD inspection personnel that verify the SWPPP

Mitigation Measure	Implementation Schedule	Verification
required by California law for HMBPs. The facility managers shall implement these measures to reduce the potential for accidental releases of hazardous materials or wastes. The HMBP shall be approved prior to operation of the given facility.		BMPs have been implemented as required in this measure. Field notes documenting verification shall be retained in the project file.

Source	Responsible Party	Status / Date / Initials
Initial Study	MSWD	

Mitigation Measure	Implementation Schedule	Verification
Hazards and Hazardous Materials HAZ-1 For project facilities that handle hazardous materials or generate hazardous waste, the HMBP prepared and submitted to the CUPA shall incorporate BMPs designed to minimize the potential for accidental release of such chemicals and shall meet the standards required by California law for HMBPs. The facility managers shall implement these measures to reduce the potential for accidental releases of hazardous materials or wastes. The HMBP shall be approved prior to operation of the given facility.	The HMBP shall be completed prior to operation of an individual facility. The facility managers shall implement the measures identified in the HMBP to reduce the potential for accidental releases of hazardous materials or wastes and shall be implemented ongoing during operation.	A copy of the HMBP shall be retained in the project file and shall be submitted to the City or County for their records. This Plan shall be retained at the project site and made available to employees working at the facility. Site inspections shall be performed by the District to ensure compliance with the best management practices outlined in the Business Plan.

Source	Responsible Party	Status / Date / Initials
Initial Study	MSWD	

Mitigation Measure	Implementation Schedule	Verification
Hazards and Hazardous Materials HAZ-2 The HMBP shall assess the potential accidental release scenarios and identify the equipment and response capabilities required to provide immediate containment, control, and collection of any released hazardous material. Prior to issuance of the certificate of occupancy, each facility shall ensure that necessary equipment has been installed and training of personnel has occurred to obtain sufficient	The HMBP shall be completed prior to operation of an individual facility.	A copy of the HMBP shall be retained in the project file. The HMBP shall be retained at the project site and made available to employees working at the facility. Site inspections shall be performed to ensure adequate equipment has been provided and

Mitigation Measure	Implementation Schedule	Verification
resources to control and prevent the spread of any accidentally released hazardous or toxic materials.		personnel have been adequately trained in accordance with the HMBP.

Source	Responsible Party	Status / Date / Initials
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Mitigation Measure	Implementation Schedule	Verification
Hazards and Hazardous Materials HAZ-3 All hazardous materials that become waste during both operation and construction of project infrastructure shall be delivered to a licensed treatment, disposal, or recycling facility and be disposed of in accordance with State and Federal law.	This measure shall be included in the construction contract as a contract specification, and shall be implemented ongoing during operation.	A copy of the construction contract shall be retained in the project file. Verification of implementation shall be based on field inspections by MSWD. Field notes from inspections shall be retained in the project file. During operations, site inspections by MSWD shall be performed to ensure adherence to this measure. Documentation of hazardous materials disposal shall be retained in the project file for both operation and construction.

Source	Responsible Party	Status / Date / Initials
Initial Study	MSWD	

Mitigation Measure	Implementation Schedule	Verification
Hazards and Hazardous Materials HAZ-4 Before determining that an area contaminated as a result of an accidental release during project operation or construction is fully remediated, specific thresholds of acceptable clean-up shall be established and sufficient samples shall be taken and tested within	This measure shall be implemented following an accidental spill of any hazardous materials.	A copy of the specific threshold used for a spill shall be retained in the project file, and a copy of the sample test data verifying clean-up of the site shall also be retained in the project file.

Mitigation Measure	Implementation Schedule	Verification
the contaminated area to verify that these clean-up thresholds have been met in compliance with State and Federal law.		

Source	Responsible Party	Status / Date / Initials
Initial Study	MSWD	

Mitigation Measure	Implementation Schedule	Verification
Hazards and Hazardous Materials		
HAZ-5 All accidental spills or discharge of hazardous material during construction activities shall be reported to the local CUPA and shall be remediated in compliance with applicable Federal, State, and local regulations regarding cleanup and disposal of the contaminant released. The contaminated waste shall be collected and disposed of at a licensed disposal or treatment facility. This measure shall be incorporated into SWPPP prepared for each future facility developed under the project, or where an SWPPP is not required due Project size, shall be incorporated as a BMP. Prior to accepting the site as remediated, the area contaminated shall be tested to verify that any residual concentrations meet the standard for future residential or public use of the site.	This measure shall be included in the construction contract as a contract specification and implemented by the contractor during construction, and shall be included as a measure in the SWPPP.	A copy of the SWPPP and construction contract shall be retained in the project file. Verification of implementation shall be based on field inspections by the MSWD. Field notes documenting verification shall be retained in the project file.

Source	Responsible Party	Status / Date / Initials
Initial Study	MSWD	

Mitigation Measure	Implementation Schedule	Verification
Hydrology and Water Quality		
HYD-1 Prior to the commencement of construction of any individual project under this proposed GQPP Septic to Sewer Project umbrella that will disturb less than one acre (i.e., that is not subject to the California Construction Stormwater General Permit), the Implementing Agency shall require implementation of and construction contractor(s) shall	This measure shall be implemented during construction and shall be included in the construction contract as a contract specification.	A copy of the construction contract shall be retained in the project file. Verification of implementation shall be based on field inspections by the District. Field notes from

Mitigation Measure	Implementation Schedule	Verification
select best management practices (BMPs) to achieve a reduction in pollutants from stormwater discharge to the maximum extent practicable during construction, and to control urban runoff after each individual project under this proposed GQPP Septic to Sewer Project umbrella is in operation. Examples of BMP(s) that would achieve a reduction in pollutants include, but are not limited to: • The use of silt fences or coir rolls; • The use of temporary stormwater desilting or retention basins; • The use of water bars to reduce the velocity of stormwater runoff; • The use of wheel washers on construction equipment leaving the site; • The washing of silt from public roads at the access point to the site to prevent the tracking of silt and other pollutants from the site onto public roads; • The storage of excavated material shall be kept to the minimum necessary to efficiently perform the construction activities required. Excavated or stockpiled material shall not be stored in water courses or other areas subject to the flow of surface water; and • Where feasible, stockpiled material shall be covered with waterproof material during rain events to control erosion of soil from the stockpiles.		inspections shall be retained in the project file.

Source	Responsible Party	Status / Date / Initials
Initial Study	MSWD	

Mitigation Measure	Implementation Schedule	Verification
Public Services		
PS-1 The project construction equipment shall be fenced or otherwise have access controlled at the close of each work day. Furthermore, the project shall include security lighting to deter illegal trespass to attractive nuisances as part of construction. The security lighting	This measure shall be incorporated into the final site design, and shall be included in the construction contract as a contract specifi-	A copy of the construction contract including this mitigation measure shall be retained in the project file. Verification of implementa-

Mitigation Measure	Implementation Schedule	Verification
shall be shielded from adjacent sensitive receptors in accordance with the jurisdiction within which construction occurs Municipal Code.	cation and implemented by the contractor during construction.	tion shall be based on field inspections by the District.

Source	Responsible Party	Status / Date / Initials
Initial Study	MSWD	

Mitigation Measure	Implementation Schedule	Verification
Transportation		
TRAN-1 <u>Prepare and Implement Construction Transportation Management Plan (TMP)</u> A construction TMP shall be developed and implemented by the implementing agency, in coordination with the respective jurisdictions, the City of Desert Hot Springs, County of Riverside Transportation Department, and/or other relevant parties during construction of the proposed project. The TMP shall conform to Caltrans' Transportation Management Plan Guidelines and shall include but is not limited to: <u>Construction Traffic Routes and Staging Locations:</u> The TMP shall identify construction staging site locations and potential road closures, alternate routes for detours, and planned truck routes for construction-related vehicle trips, including but not limited to haul trucks, material delivery trucks, and equipment delivery trucks. It shall also identify alternative safe routes and policies to maintain safety along bicycle and pedestrian routes during construction. Construction vehicle routes shall avoid local residential streets and avoid peak morning and evening commute hours to the maximum extent practicable. Staging locations, alternate detour routes, and construction vehicle routes shall avoid other active construction projects within 0.25 mile of the project construction sites to the maximum extent practicable.	The Construction Traffic Management Plan (CTMP) shall be compiled and approved prior to the initiation of construction. The provisions of the Construction Traffic Management Plan shall be implemented during construction.	Verification of implementation shall be based on field inspections by MSWD inspection personnel that verify adequate traffic management resources are being used by the contractor as required in this measure. Field notes documenting verification shall be retained in the project file.

Mitigation Measure	Implementation Schedule	Verification
Damage Repair: The TMP shall include the following requirements to minimize damage to the existing roadway network: • A list of precautionary measures to protect the existing roadway network, including but not limited to pavements, curbs, gutters, sidewalks, and drainage structures, shall be outlined. The construction contractor(s) shall be required to implement these measures throughout the duration of construction of the proposed sewer pipeline. • The roadway network along the proposed sewer pipeline alignment(s) shall be surveyed prior to the start of project construction activities, and existing roadway conditions shall be summarized in a brief report. • Any damage to the roadway network that occurs as a result of project construction activities shall be noted, and MSWD or its contractors shall repair all damage. Coordination with Emergency Services: The TMP shall include requirements to notify local emergency response providers, including relevant police and sheriff departments, ambulance services, and paramedic services at least one week prior to the start of work within public ROW if lane and/or road closures are required. To the extent practicable, the duration of disruptions/closures to roadways and critical access points for emergency services shall be minimized. Coordination with Active Transportation Facilities: The TMP shall require coordination with owners/operators of any affected active transportation facilities to minimize the duration of disruptions/closures to bike paths, pedestrian trails, and adjacent access points. Coordination with Riverside Transit Agency (RTA): If the proposed project affects access to existing transit stops, the TMP shall also include temporary, alternative transit stops and directional signage, as determined in coordination with RTA.		

Mitigation Measure	Implementation Schedule	Verification
Coordination with Caltrans: If the proposed project requires lane and/or road closures of State highways or State highway ramps, the TMP shall require coordination with Caltrans to ensure the TMP conforms with Caltrans' Transportation Management Plan Guidelines. Coordination with Nearby Construction Sites: The TMP shall identify all active construction projects within 0.25 mile of project construction sites and require coordination with the applicants and/or contractors of these projects during all phases of construction regarding the following: • All temporary lane and/or roadway closures shall be coordinated to limit overlap of roadway closures; • All major deliveries and haul truck trips shall be coordinated to limit the occurrence of simultaneous deliveries and haul truck trips; and • MSWD, its contractor(s), or its representative(s) shall meet on a regular basis with the applicant(s), contractor(s) or their representative(s) of active construction projects within 0.25 mile of the project construction sites during construction to address any outstanding issues related to construction vehicles. Transportation Control and Safety: The TMP shall provide for roadway vehicle control measures including flag persons, warning signs, lights, barricades, cones, and/or detour routes to provide safe passage of vehicular, bicycle, and pedestrian circulation and access by emergency responders. Plan Approval: The TMP shall be reviewed and approved by the local agency with authority over construction within the public ROW for review and approval.		

Source	Responsible Party	Status / Date / Initials
Initial Study	MSWD	

Mitigation Measure	Implementation Schedule	Verification
Tribal Cultural Resources		
TCR-1 Native American Cultural Monitor: Prior to the issuance of grading permits, MSWD shall develop an agreement with the Agua Caliente Band of Cahuilla Indians-Tribal Historic Preservation Office for the appropriate number of Native American Cultural Monitor(s). The Native American Cultural Monitor(s) shall attend the pre-construction meeting with the contractors to provide Cultural Sensitivity Training for all construction personnel. The Native American Cultural Monitor(s) shall be on site during ground disturbing activities on undisturbed soils and disturbance of section G, H, and I including clearing, grubbing, tree removals, grading and trenching. The Native American Cultural Monitor(s) have the authority to temporarily divert, redirect or halt the ground disturbance activities to allow identification, evaluation, and potential recovery of cultural resources.	The Tribal Monitoring Services Agreement shall be entered into prior to construction. Any response to exposed resources shall occur during construction. This measure shall be included in the construction contract. If a tribal cultural resources monitoring and treatment plan is ultimately required to be prepared, the plan shall be prepared during construction, prior to any further ground disturbance in the area that the resource is found. The monitor, as specified in this measure, shall be present during the remainder of construction following any resource discovery.	A copy of the Tribal Monitoring Services Agreement and Plan thereof shall be retained in the project file. Verification of implementation shall be based on field inspections by District inspection personnel that verify the cultural resources monitoring and treatment plan is being implemented by the contractor as required in this measure. Field notes documenting verification shall be retained in the project file.

Source	Responsible Party	Status / Date / Initials
Initial Study	MSWD	

Mitigation Measure	Implementation Schedule	Verification
Tribal Cultural Resources		
TCR-2 Inadvertent Discoveries: MSWD or any successor in interest shall comply with the following for the life of this permit. If during ground disturbance activities, unanticipated cultural resources are discovered, the following procedures shall be followed: All ground disturbance activities within 50 feet of the discovered cultural resource shall be halted and a meeting shall be convened between the Native American tribal representative and MSWD to discuss the significance of the find. At the meeting with the aforementioned parties, a decision is to be made, with the concurrence of the consulting Tribe(s), as to the appropriate treatment (documentation, recovery, avoidance etc.) for the cultural resource. A Secretary of the Interior qualified archaeologist shall be retained if deemed necessary	This measure shall be implemented during construction if human remains or funerary objects are exposed during construction. The stipulations set forth by this measure shall be included in the construction contract.	A copy of the construction contract shall be retained in the project file. The District shall retain all records of the discovery and management actions taken in regard to human remains or funerary objects in the project file.

Mitigation Measure	Implementation Schedule	Verification
by the parties involved. Resource evaluations shall be limited to nondestructive analysis. Further ground disturbance shall not resume within the area of the discovery until the appropriate treatment has been accomplished.		

Source	Responsible Party	Status / Date / Initials
Initial Study	MSWD	

Mitigation Measure	Implementation Schedule	Verification
Tribal Cultural Resources TCR-3 Reburial Protocol: Prior to issuance of grading permits: the developer/applicant shall come to an agreement with the consulting tribes indicating an area on-site which will be used, if needed, for reburial of any artifacts that have been identified during the duration of the project and cannot be avoided. The location has to be kept confidential and in an area that will not be disturbed in the future.	This measure shall be implemented during construction if tribal cultural resources are exposed during construction. The stipulations set forth by this measure shall be included in the construction contract.	A copy of the construction contract shall be retained in the project file. The District shall retain all records of the discovery and management actions taken in regard to artifacts in the project file.

Source	Responsible Party	Status / Date / Initials
Initial Study	MSWD	

Mitigation Measure	Implementation Schedule	Verification
Tribal Cultural Resources TCR-4 Human Remains: Pursuant to the California Health and Safety Code Section 7050.5, in the event of discovery of any human remains on the project site, there shall be no further excavation or disturbance of the site, or any nearby area reasonably suspected to overlay adjacent remains, until the County Coroner has examined the remains. If the coroner determines the remains to be Native American or has reason to believe that they are those of Native American, the coroner shall contact the NAHC within 24-hours, and the NAHC will be responsible for identifying the Most Likely Descendant (MLD) and	This measure shall be implemented during construction if human remains are exposed during construction. The stipulations set forth by this measure shall be included in the construction contract.	A copy of the construction contract shall be retained in the project file. The District shall retain all records of the discovery and management actions taken in regard to human remains in the project file.

Mitigation Measure	Implementation Schedule	Verification
contacting them for ongoing consultation and resolution. The project will be subject to these requirements during all construction and excavation activities. Compliance with the California Health and Safety Code will ensure that should there be a discovery of any human remains during project construction activities, impacts would be reduced to less than significant levels.		

Source	Responsible Party	Status / Date / Initials
Initial Study	MSWD	

Mitigation Measure	Implementation Schedule	Verification
Utilities and Service Systems UTIL-1 The contract with demolition and construction contractors for a given Replenish Big Bear Program project shall include the requirement that all materials that can feasibly be recycled shall be salvaged and recycled. This includes but is not limited to wood, metals, concrete, road base, soil and asphalt. The contractors for a given Replenish Big Bear Program project shall submit a recycling plan to the implementing agency for review and approval prior to issuance of permits for the construction of demolition/construction activities.	This measure shall be included in the construction contract as a contract specification and implemented by the contractor during construction.	A copy of the construction contract including this mitigation measure shall be retained in the project file. Verification of implementation shall be based on field inspections by the District. Documentation of recycling shall be completed by the contractor and retained in the project file.

Source	Responsible Party	Status / Date / Initials
Initial Study	MSWD	

Mitigation Measure	Implementation Schedule	Verification
Utilities and Service Systems UTIL-2 The contract with demolition and construction contractors for any individual project under this proposed GQPP Septic to Sewer Project umbrella shall include the requirement that all soils that are planned to be exported from the site that can be recycled shall be recycled	This measure shall be included in the construction contract as a contract specification and implemented by the contractor during construction.	A copy of the construction contract including this mitigation measure shall be retained in the project file. Verification of implementation shall be based on field inspections by the District. Documentation of soils recycling

Mitigation Measure	Implementation Schedule	Verification
for re-use; alternatively, soils shall be reused on site to balance soil import/export.		shall be completed by the contractor and retained in the project file.

Source	Responsible Party	Status / Date / Initials
Initial Study	MSWD	

Mitigation Measure		Implementation Schedule	Verification
Wildfire			
WF-1	Prior to initiating construction of proposed sewer pipeline and laterals within public ROW, MSWD shall prepare and implement a traffic control plan that contains comprehensive strategies for maintaining emergency access during construction. Strategies shall include, but are not limited to, maintaining steel trench plates at the construction sites to restore access across open trenches, flag persons and related assets to manage the flow of traffic, and identification of alternate routing around construction zones, where necessary. In addition, police, fire, and other emergency service providers (local agencies, Caltrans, and other service providers) shall be notified of the timing, location, and duration of the construction activities and the location of detours and lane closures. MSWD shall ensure that the traffic control plan and other construction activities are consistent with the County of Riverside Emergency Operations Plan, and are reviewed and approved by the local agency with authority over construction within the public ROW.	This measure shall be included in the construction contract as a contract specification and implemented by the contractor during construction. The TMP shall be developed prior to initiation of construction.	A copy of the TMP and construction contract shall be retained in the project file(s). Verification of implementation shall be based on field inspections by the District. Additionally, correspondence with Caltrans, and/or the corresponding County or City traffic management division shall be retained in the project file.

Source	Responsible Party	Status / Date / Initials
Initial Study	MSWD	

FINAL INITIAL STUDY

INITIAL STUDY

FOR THE

MISSION SPRINGS WATER DISTRICT GROUNDWATER QUALITY PROTECTION PROGRAM SEPTIC TO SEWER PROJECT

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LIST OF ABBREVIATIONS AND ACROYNMS

°F	Fahrenheit
AAQS	Ambient Air Quality Standards
AB	Assembly Bill
ACBCI	Agua Caliente Band of Cahuilla Indians
AF	acre feet
AF	Acre Feet
AFY	acre feet per year
AKA	also known as
amsl	above mean sea level
APE	Area of Potential Effect
APN	Assessor's Parcel Number
AQMD	Air Quality Management District
AQMP	Air Quality Management Plan
ARB	Air Resources Board
ASTM	American Society for Testing and Materials
BACMs	Best Available Control Measures
bgs	belowground surface
BMPs	Best Management Practices
BPELS	Building and Professions Code Sections
BPELSG	Board for Professional Engineers, Land Surveyors, and Geologists
BRA	Biological Resources Assessment
BUOW	Burrowing Owl
BWh	hot desert climate
C	Commercial
C-BP	Commercial Business Park
C-H	Commercial Highway
C&D	construction and demolition
C_2Cl_4	perchloroethylene
C_2H_4O	acetaldehyde
C_4H_6	1,3-butadiene
C_6H_6	benzene
CAA	Clean Air Act
CAAA	Clean Air Act Amendment
CAAQS	California Ambient Air Quality Standards
CAL FIRE	California Department of Forestry and Fire Protection
CalEEMod	California Emissions Estimator Model
CALGreen	California Green Building Standards Code
CAP	Climate Action Plan
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CBC	California Building Code
CCAR	California Climate Action Registry

CDFW	California Department of Fish and Wildlife
CEQA	California Environmental Quality Act
CESA	California Endangered Species Act
CGP	Construction General Permit
CH_2O	formaldehyde
CH_4	methane
CHRIS	California Historical Resources Information System
CNEL	Community Noise Equivalent Level
CNPS	California Native Plant Society
CO	Carbon Monoxide
CO_2	carbon dioxide
COA	Conditions of Approval
COCs	constituents of concern
COH	coefficient of haze
Corps	U.S. Army Corps of Engineers
CRECs	controlled recognized environmental conditions
CRHR	California Register of Historical Resources
CRMP	Cultural Resource Management Plan
CVCC	Coachella Valley Conservation Commission
CVMSHCP	Coachella Valley Multiple Species Habitat Conservation Plan
CVWD	Coachella Valley Water District
CWA	Clean Water Act
CY	cubic yard
dB	decibel
dBA	A-weighted decibel
DDW	Division of Drinking Water
DOI	Department of the Interior
DPM	diesel particulate matter
DTSC	Department of Toxic Substance Control
DWA	Desert Water Agency
DWR	Department of Water Resources
EAP	Energy Action Plan
EC	elemental carbon
EIR	Environmental Impact Report
EO	Executive Orders
EPA	Environmental Protection Agency
ESA	Environmental Site Assessment
FE	Federally Endangered
FEMA	Federal Emergency Management Agency
FESA	Federal Endangered Species Act
FGC	Fish & Game Code
FHSZ	Fire Hazard Severity Zone
FHWA	Federal Highway Administration
FICON	Federal Interagency Committee on Noise
FIRM	Flood Insurance Rate Maps
FT	Federal Threatened
FTA	Federal Transit Association

GCC	Global Climate Change
GHG	Greenhouse Gas
gpm	gallons per minute
GQPP	Groundwater Quality Protection Program
GSA	Groundwater Sustainability Agencies
GSP	Groundwater Sustainability Plans
HCP	Habitat Conservation Plan
HFCs	hydrofluorocarbons
HMBP	Hazardous Materials Business Plan
hP	horse power
HREC	historical recognized environmental conditions
HSA	Hydrologic Sub-Area
HSC	Health and Safety Code
I	Industrial
I-10	Interstate 10
I-L	Industrial Light
in/sec	inches per second
IWA	Indio Water Authority
km	kilometers
kWh	kilowatt hour
lbs./day	Pounds Per Day
Leq	equivalent continuous sound level
LF	lineal feet
LRA	Local Responsibility Area
LSA	Lake or Streambed Alteration
LST	Localized Significance Thresholds
LUCI	Governor's Office of Land Use and Climate Innovation
LUST	Leaking Underground Storage Tank
MBTA	Migratory Bird Treaty Act
MCL	maximum contamination level
MDR	Medium Density Residential
MGD	million gallon per day
MICR	maximum individual cancer risk
MLD	Most Likely Descendant
MM	Mitigation Measure
MND	Mitigated Negative Declaration
MPH	miles per hour
MPO	metropolitan planning organization
MRZ	Mineral Resource Zone
MSHCP	Multi-Species Habitat Conservation Plan
MSWD	Mission Springs Water District
MT	Metric Ton
$MTCO_2e/yr$	Metric Tons of CO_2 equivalent per year
N_2O	nitrous oxide
NAAQS	National Ambient Air Quality Standards
NAHC	Native American Heritage Commission
NBP	Nesting Bird Plan

NCCP	Natural Community Conservation Plan
NHPA	National Historic Preservation Act
No.	Number
NO2 or NOx	Nitrogen Dioxide
NOI	Notice of Intent
NPDES	National Pollutant Discharge Elimination System
NRCS	National Resource Conservation Service
NVA	Noise and Vibration Analysis
NWI	National Wetlands Inventory
O3	Ozone
OPR	Governor's Office of Planning and Research
OS	Open Space
Pb	Lead
PFCs	perfluorocarbons
PM 10	Fine Particulate Matter
PM 2.5	Fine Particulate Matter
ppm	parts per million
PPV	peak particle velocity
PRC	Public Resource Code
PV	Photovoltaic
R	Refrigerants
R-RD	Residential Rural Desert
RCFD	Riverside County Fire Department
RCNM	Roadway Construction Noise Model
RECs	recognized environmental conditions
ROG	reactive organic gases
ROW	Rights-of-Way
RTA	Riverside Transit Authority
RTP/SCS	Regional Transportation Plan/Sustainable Communities Strategy
RWQCB	Colorado River Basin Regional Water Quality Control Board
RWRF	Regional Wastewater Reclamation Facility
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SCCIC	South Central Coastal Information Center
SCE	Southern California Edison
SEAs	Significant Ecological Areas
SF_6	sulfur hexafluoride
SGMA	Sustainable Groundwater Management Act
SGMP	Sustainable Groundwater Management Plan
SLF	Sacred Land File
SO2	Sulfur Dioxide
SOI	Secretary of Interior
SSAB	Salton Sea Air Basin
SSC	Species of Special Concern
SSMP	Sewer System Management Plan
SWPPP	Storm Water Pollution Prevention Plan
SWRCB	State Water Resources Control Board

TAC	Toxic Air Contaminants
TCR	Tribal Cultural Resources
TGA	Trip Generation Assessment
TGE	Trip Generation Evaluation
THPO	Tribal Historic Preservation Office
TMP	Transportation Management Plan
USACE	United States Army Corps of Engineers
USDA	U.S. Department of Agriculture
USEPA	U.S. Environmental Protection Agency
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
UWMP	Urban Water Management Plan
VdB	vibration-velocity decibel
VES	Vapor Encroachment Screen
VMT	vehicle miles traveled
VOCs	Volatile Organic Compounds
vph	vehicles per hour
WOTUS	Waters of the United States
WQMP	Water Quality Management Plan
YSMN	Yuhaaviatam of San Manuel Nation
ZNE	Zero Net Energy

PROJECT INFORMATION

Project Title	Groundwater Quality Protection Program Septic to Sewer Project
Lead Agency Name	Mission Springs Water District
Address	66575 Second Street, Desert Hot Springs, CA 92240
Contact Person	Brian E. Macy, General Manager
Phone Number	(760) 329-6448
Email	bmacy@mswd.org

Project Location

The Mission Springs Water District (MSWD or District) service area is located in southern California within the northwestern portion of the Coachella Valley. The proposed project will install sewer main lines and laterals within roadways and existing rights-of-way, and abatement of septic tanks, within MSWD's service area. Specifically, several sewer improvement sub-areas were identified to target septic tank abatements; these areas include: A, D-3, G, H, I, J-2, K, and along the I-10 corridor as shown on the Area of Potential Effect (APE) Map provided as **Figure 1.**

Area A (**Figures 2 and 3**)

Latitude/Longitude: 33°58'50.67"N, 116°32'3.06"W

The pipelines will be installed within the roadways shown on **Figures 2 and 3**. These roadways are: Augusta Avenue, La Costa Court, Annandale Avenue, Cochran Court, Desert Air Court, Oakmont Boulevard, Barnes Court, Egan Court, Leonard Court, Ray Court, Leith Avenue, Little Court, Cotton Court, Inglewood Avenue, Hoylake Road, Cascades Drive, Smith Court, Burke Court, Boros Court, Brae Burn Avenue, Spyglass Avenue, Ekwanok Drive, Warwick Drive, Picard Court, Vardon Court, Kirkwood Court, Turnesa Court, Diegel Court, Capiland Drive, Congressional Road, Apawamis Road, Siwanoy Drive, Sanderling Court, Pinehurst Circle, Troon Court, Middlecoff Court, Brookline Avenue, Lido Court, Jones Court, Devicenzo Court, Doral Drive, Clubhouse Boulevard, and Lema Court. The project site is generally located within Section 23, Township 2 South, Range 4 West of the USGS 7.5 Minute Desert Hot Springs, CA topographical quadrangle. This Sub Area occurs within the City of Desert Hot Springs and County of Riverside.

Area D-3 (**Figures 4 and 5**)

Latitude/Longitude: 33°58'26.24"N, 116°30'12.04"W

The pipelines will be installed within the roadways shown on **Figures 4 and 5**. These roadways are: Cactus Drive, 12th Street, San Juan Drive, and San Marcus Road. The project site is generally located within Section 30, Township 2 South, Range 5 East of the USGS 7.5 Minute Desert Hot Springs, CA topographical quadrangle. This Sub Area occurs within the City of Desert Hot Springs.

Area G (**Figures 6 and 7**)

Latitude/Longitude: 33°57'21.77"N, 116°29'21.22"W

The pipelines will be installed within the roadways shown on **Figures 6 and 7**. These roadways are: Verbena Drive, Ambrosio Drive, Pomelo Drive, Foxdale Drive, Tamar Drive, Sumac Drive, Desert View

Drive and Parma Drive. The project site is generally located within Section 32, Township 2 South, Range 5 East of the USGS 7.5 Minute Seven Palms Valley, CA topographical quadrangle. This Sub Area occurs within the City of Desert Hot Springs.

Area H (**Figures 8 and 9**)
Latitude/Longitude: 33°56'51.73"N, 116°28'53.60"W
The pipelines will be installed within the roadways shown on **Figures 8 and 9**. These roadways are: Tunitas Road, Suerte Way, Oro Loma Street, Ortega Drive, Pequena Drive, Cerrita Way, Loma Vista Road, Key Way, Monterey Road, Agua Cayendo Road, Cuando Way, Oris Drive, Cielo Azul Way, Miracle Hill Road, Eliseo Road, and Hacienda Avenue. The project site is generally located within Section 32, Township 2 South, Range 5 East of the USGS 7.5 Minute Seven Palms Valley, CA topographical quadrangle. This Sub Area occurs within the City of Desert Hot Springs.

Area I (**Figures 10 and 11**)
Latitude/Longitude: 33°57'10.17"N, 116°28'36.67"W
The pipelines will be installed within the roadways shown on **Figures 10 and 11**. These roadways are: Monterico Road, Desert View Avenue, Arena Blanca Road, Alameda Road, Pequena Drive, Loma Vista Road, Hidalgo Street, Hermano Way, Inaja Street, and Quinta Way. The project site is generally located within Section 32, Township 2 South, Range 5 East of the USGS 7.5 Minute Seven Palms Valley, CA topographical quadrangle. This Sub Area occurs within the City of Desert Hot Springs.

Area J-2 (**Figure 12**)
Latitude/Longitude: 33°57'24.43"N, 116°28'25.98"W
The pipelines will be installed within the roadways shown on **Figure 12**. These roadways are: Mountain View Road, Highland Avenue, Skyline Drive, Calle Amapola, Avenida Serena, Redbud Road, Calle Blanco, Avenida Hermosa, Via Domingo, Hacienda Road, Acacia Avenue, Beech Avenue, Catalpa Avenue, Deodar Avenue, Calle Bonita, Calle Calmoso, Calle Descanso, Avenida Alta Loma, and Monterico Road. The project site is generally located within Section 33, Township 2 South, Range 5 East of the USGS 7.5 Minute Seven Palms Valley, CA topographical quadrangle. This Sub Area occurs within the City of Desert Hot Springs.

Area K (**Figures 13 and 14**)
Latitude/Longitude: 33°57'27.69"N, 116°27'58.33"W
The pipelines will be installed within the roadways shown on **Figures 13 and 14**. These roadways are: Juniper Drive, Fernwood Drive, Elm Avenue, Deodar Avenue, Catalpa Avenue, Birch Road, Beech Avenue, Hacienda Avenue, Redbud Road, Skyline Drive, and Spruce Street. The project site is generally located within Section 33, Township 2 South, Range 5 East of the USGS 7.5 Minute Seven Palms Valley, CA topographical quadrangle. This Sub Area occurs within the City of Desert Hot Springs.

I-10 and North Indian Canyon Drive Corridor Area (Area I-10 Corridor) (**Figure 15)**
Latitude/Longitude: 33°54'16.41"N, 116°32'33.88"W
The pipelines will be installed within the roadways shown on **Figure 12**. These roadways are: Garnet Avenue, Indian Canyon Drive, 20th Avenue, 19th Avenue, Orr Way, McLane Street, Ruppert Street, and Newhall Street. The project site is generally located within Section 14, Township 3 South, Range 4 East of the USGS 7.5 Minute Desert Hot Springs, CA topographical quadrangle. Note that this area is located within the City of Desert Hot Springs and City of Palm Springs.

Project Sponsor Name	Mission Springs Water District
Address	66575 Second Street, Desert Hot Springs, CA 92240
Land Use Designation	N/A (Sewer Installation within rights-of-way [ROW])
Zoning Classification	N/A (Sewer Installation within rights-of-way [ROW])

Project Description

Introduction

Mission Springs Water District (MSWD or District) provides water and sewer services to the communities of Desert Hot Springs, West Garnet, North Palm Springs, and various portions of unincorporated Riverside County. MSWD, as the Lead Agency pursuant to California Environmental Quality Act (CEQA), is proposing to install approximately 146,200 linear feet (LF) of 8-inch sewer pipeline within Areas A, D-3, G, H, I, J-2, K, and along the I-10 corridor to eliminate septic tanks that threaten contamination of potable groundwater supplies by expanding MSWD's wastewater collection system. This would also protect hot mineral water, which is the economic basis of the community's spa industry.

In February 1999, MSWD adopted the MSWD Sewer Improvement Project, which was intended to convert approximately 5,000 existing septic disposal treatment systems to a sewer conveyance and treatment system. The project was approved to develop about 62.8 miles of sewer line and a one million gallon per day (MGD) expansion of the District's Horton Wastewater Treatment Plant. In March of 2011, MSWD adopted an Addendum to the MSWD Sewer Improvement Project titled "Addendum No. 1 for AD-12 Sewer Improvement Project," which would enable the District to install about 57 miles of sewer pipelines and wastewater collection within the District's service area. The proposed Groundwater Quality Protection Program (GQPP) Septic to Sewer Project is an extension of the original project from 1999, but because over 25 years have passed since the original project was adopted and several of the original sewer improvement areas have been completed, a follow-on Initial Study is being prepared to address the potential impacts from the installation of the proposed 27.6 miles (approximately 146,200 Linear Feet [LF]) of sewer pipeline. Note that the proposed GQPP Sub Areas that remain a part of this proposed Update project are as follows: A, D-3, G, H, I, J-2, K, and along the I-10 corridor as shown on the area of potential effect APE Map provided as **Figure 1.**

The District developed the GQPP to protect and preserve the quality of its most valuable natural resource which is, groundwater. The overall GQPP is designed to protect groundwater quality from degradation by discharges from septic tank leach-fields. The GQPP would remove more than 2,040 septic tanks for connection to MSWD's sewer system. The proposed sewer improvements focus on GQPP Sub Areas A, D-3, G, H, I, J-2, K, and the I-10 corridor. Construction is planned to connect 2,600 parcels to the MSWD sewer system and abate over 2,040 on-site septic systems. In addition, the project includes installation of an estimated 2,500 new 4- to 6-inch service laterals. The proposed improvements would also increase wastewater effluent available for treatment to tertiary levels and for reuse as recycled water in the future.

Project Description

MSWD proposes to construct 146,200 LF of new sewer pipeline that would be 8-inch in size within GQPP Sub Areas A, D-3, G, H, I, J-2, K, as well as a new Sub Area "I-10 Corridor" shown on the APE Map provided as **Figure 1**. What follows is a description of each of the individual areas that MSWD is considering converting existing septic uses to be connected to MSWD's sewer collection system.

Area A **(Figures 2 and 3**)
MSWD proposes to construct 40,000 LF of new sewer pipeline that would be 8-inch in size within Sub Area A of District's service area, within an area of approximately 337 acres. **Figures 2 and 3** depict Sub Area A and the proposed pipeline alignments. Construction of the new sewer mains for Sub Area A would install sewer mains to connect an anticipated 879 parcels to the MSWD sewer system and abate an estimated 836 on-site septic systems. In addition, Area A also proposes the installation of 879 new 4-inch service laterals. The proposed project would install sewer mains within a number of existing roadways as they align with Sub Area A (**Figures 2 and 3**).

Construction Timing: 60 months required to construct. Note, as funding becomes available, Area A will be phased for construction. As of now, there may be up to 5 phases of construction, with each phase lasting approximately 30 months (overlapping with subsequent phases) which equates to approximately 5 years total. As funding becomes available, each phase will be constructed; as such, there is no guarantee that each phase will be completed in overlapping fashion.

Area D-3 (**Figures 4 and 5**)
MSWD proposes to construct 4,500 LF of new sewer pipeline that would be 8-inch in size within Sub Area D-3 of District's service area, within an area of approximately 33 acres. **Figures 4 and 5** depict Sub Area D-3 and the proposed pipeline alignments. Construction of the new sewer mains for Sub Area D-3 would install sewer mains connect an anticipated 102 parcels to the MSWD sewer system and abate an estimated 82 on-site septic systems. In addition, Area D-3 proposes the installation of 102 new service laterals. The proposed project would install sewer mains within a number of existing roadways as they align with Sub Area D-3 (**Figures 4 and 5**).

Construction Timing: 6 months required to construct.

Area G (**Figures 6 and 7**)
MSWD proposes to construct 9,700 LF of new sewer pipeline that would be 8-inch in size within Sub Area G of District's service area, within an area of approximately 119.2 acres. **Figures 6 and 7** depict Sub Area G and the proposed pipeline alignments. Construction of the new sewer mains for Sub Area G would install sewer mains to connect an anticipated 196 parcels to the MSWD sewer system and abate an estimated 124 on-site septic systems, and install 196 new 4-inch service laterals. The proposed project would install sewer mains within a number of existing roadways as they align with Sub Area G (**Figures 6 and 7**). The proposed project involves installation at one location that is not located within a defined roadway, but is along a compacted dirt pathway that extends south of Desert View Avenue at Foxdale Drive on the eastern side of Cabot Yerxa Elementary School.

Construction Timing:12 months required to construct.

Area H (**Figures 8 and 9**)
MSWD proposes to construct 16,200 LF of new sewer pipeline that would be 8-inch in size within Sub Area H of District's service area, within an area of approximately 130 acres. **Figures 8 and 9** depict Sub Area H and the proposed pipeline alignments. Construction of the new sewer mains for Sub Area H would install sewer mains to connect an anticipated 342 parcels to the MSWD sewer system and abate an estimated 217 on-site septic systems, and install 342 new 4-inch service laterals. The proposed project would install sewer mains within a number of existing roadways as they align with Sub Area H (**Figures 8 and 9**).

Construction Timing: 22 months required to construct.

Area I (**Figures 10 and 11**)
MSWD proposes to construct 14,400 LF of new sewer pipeline that would be 8-inch in size within Sub Area I of District's service area, within an area of approximately 92.2 acres. **Figures 10 and 11** depict Sub Area I and the proposed pipeline alignments. Construction of the new sewer mains for Sub Area I would install sewer mains to connect an anticipated 33 parcels to the MSWD sewer system and abate an estimated 251 on-site septic systems, and install 334 new 4-inch service laterals. The proposed project would install sewer mains within a number of existing roadways as they align with Sub Area I (**Figures 10 and 11**). The proposed project involves installation of pipeline at one location that is not within a roadway to connect sewer pipeline from Hidalgo Street to Quinta Way. This pipeline will skirt the boundaries of the homes within Sub Area I.

Construction Timing: 20 months required to construct.

Area J-2 (**Figure 12**)
MSWD proposes to construct 15,700 LF of new sewer pipeline that would be 8-inch in size within Sub Area J-2 of District's service area, within an area of approximately 96.3 acres. **Figure 12** depict Sub Area J-2 and the proposed pipeline alignments. Construction of the new sewer mains for Sub Area J-2 would install the sewer mains to connect an anticipated 319 parcels to the MSWD sewer system and abate an estimated 252 on-site septic systems, and install 319 new service laterals. The proposed project would install sewer mains within a number of existing roadways as they align with Sub Area J-2 (**Figure 12**).

Construction Timing: 22 months required to construct.

Area K (**Figures 13 and 14**)
MSWD proposes to construct 12,500 LF of new sewer pipeline that would be 8-inch in size within Sub Area K of District's service area, within an area of approximately 77 acres. **Figures 13 and 14** depict Sub Area K and the proposed pipeline alignments. Construction of the new sewer mains for Sub Area K would install the sewer mains to connect an anticipated 248 parcels to the MSWD sewer system and abate an estimated 193 on-site septic systems, and install 248 new 4-inch service laterals. The proposed project would install sewer mains within a number of existing roadways as they align with Sub Area K (**Figures 13 and 14**).

Construction Timing:12 months required to construct.

Area I-10 Corridor (**Figure 15)**

MSWD proposes to construct 33,200 LF of new sewer pipeline that would be 8, 10, 12, 15, 18 and 21 -inch in size within Sub Area I-10 Corridor of District's service area, within an area of approximately 1,120 acres. **Figure 15** depicts Sub Area I-10 Corridor and the proposed pipeline alignments. Construction of the new sewer mains for the I-10 Sub Area Corridor would install the sewer mains to connect an anticipated 54 parcels to the MSWD sewer system and abate an estimated 42 on-site septic systems, and install an estimated 54 new 4-Inch and 6-inch service laterals. The proposed project would install sewer mains within a number of existing roadways as they align with Sub Area I-10 Corridor (**Figure 15**). The proposed project involves installation of sewer mains between Garnet Avenue to the east of Indian Canyon Drive, north to 20th Avenue, of which the boring under the I-10 has already been completed. Additionally, the development of this Sub Area requires installation of pipeline within dirt roadways (20th Avenue to the east of the proposed sewer connection from Garnet Avenue to the South and 19th Street from just east of Calle de los Romos to the Nancy Wright Regional Wastewater Reclamation Facility [RWRF]),

Construction Timing: 48 months required to construct. (This project will likely be completed in phases as funding becomes available, much like Area A).

Construction Scenario

Construction of this project is anticipated to occur over a period of about 20 years, with one Sub Area to be constructed approximately every 30 months. It is assumed that an underground utility installation team can install approximately 200-400 lineal feet of sewer pipeline per day. In addition, a septic abatement team can complete up to five (5) septic tank abatements per day. A team consists of the following:

- Approximately 200-400 LF of pipeline installed per day
  - 1 Pavement Cutter
  - 2 Excavator
  - 1 Backhoe/Compactor
  - 1 Loader
  - 1 Dump/Haul Truck
  - 1 Paver
  - 1 Roller/Vibrator
  - 1 Water truck
  - 2 Worker Utility Trucks
  - 1 Forman Truck
  - Traffic Control Signage and Devices
  - 10 Dump/delivery trucks (50 miles round trip distance)
  - Employees (11 members per team)

- Approximately five (5) septic tanks abatements per day
  - 1 Excavator
  - 1 Backhoe
  - 1 Septic Truck (Operating 2 hours per day)
  - 1 Water truck
  - 2 Worker Utility Trucks

- 1 Forman Truck
- Traffic Control Signage and Devices
- 2 Dump/delivery trucks (50 miles round trip distance)
- Employees (6-8 members per team)

The emissions calculations are based upon the above assumptions for each sewer main installation and septic abatement team. For air emission calculations it is further assumed that one team will be installing sewer mains and 1 team will be completing septic abatements. The final activity associated with the sewer main installation is repaving of roads disturbed by the construction, in addition to returning the surfaces of compacted dirt road and shoulder areas within the ROW to the original condition. The final activity associated with the septic abatement is restoring native and landscaped areas disturbed by the construction to the original condition. Note re-paving will likely occur as quickly as possible when large enough areas are completed.

The project will utilize open cut trenching for a vast majority of the sewer reaches and septic abatement areas, with jack and bore techniques for certain small areas. The depth to the invert of the pipe will be approximately 8 feet deep in the open cut trench areas and approximately 12 to 15 feet deep under the existing drainage channel between Hidalgo Street and Quinta Way.

The actual schedule implemented will be dictated by the Contractor.

Surrounding land uses and setting:

The proposed project would occur over the various GQPP Sub Areas located throughout the City of Desert Hot Springs, City of Palm Springs, and Unincorporated Riverside County, overlapping within an area of about 2,000 acres. As a result, the mix of land uses that occur within the project area includes nearly all of the land uses that could be found within the City of Desert Hot Springs; and further, within the City of Palm Springs, the land use is generally Industrial (IND) in nature, with some areas designated for Open Space Desert (OS-D), and a small area designated for Medium Density Residential (MDR). Within Unincorporated Riverside County, the predominant land uses are Medium Density Residential, Commercial Retail, Open Space Recreation, Conservation, and Medium High Density Residential. Within all "lettered" Sub Areas, the predominant land uses are residential in nature.

Other agencies whose approval is required (e.g., permits, financing approval, or participation agreement.)

If listed species are involved, the U.S. Fish and Wildlife Service and/or California Department of Fish and Wildlife (CDFW) may have to issue incidental take permits or permits may be obtained under the Multi-Species Habitat Conservation Plan (MSHCP). The Corps of Engineers, CDFW and Colorado River Basin Regional Water Quality Control Board (RWQCB) may need to participate in review of any discharge of fill into or alteration of a streambed. The proposed project may also require consultation under the Coachella Valley Multiple Species Habitat Conservation Plan (CVMSHCP), and thereby the Coachella Valley Conservation Commission (CVCC). The whole of the project exceeds the threshold for a General Construction National Pollutant Discharge Elimination System (NPDES) permit. This requires notification to the State Water Board and preparation and implementation of a Storm Water Pollution Prevention Plan

(SWPPP). The proposed project will require encroachment permits from City of Desert Hot Springs, the City of Palm Springs, and County of Riverside to construct the sewer mains within existing road rights-of-way.

Assembly Bill 52 Consultation

Have California Native American tribes traditionally and cultural affiliated with the project area requested consultation pursuant to Public Resources Code section 21080.3.1? If so, has consultation begun?[1]

An AB 52 consultation letter was sent on July 24, 2025 to the only tribe that has requested consultation from the District: Agua Caliente Band of Cahuilla Indians. The Tribe responded on July 25, 2025 requesting several items. The District provided the requested items to the Tribe at their request, as the materials (Initial Study, Cultural Resources Report) became available. The Tribe also requested a meeting with the District, which occurred on December 24, 2025. The result of this meeting was a request for specific mitigation language to be incorporated into the project as part of this Initial Study to ensure protection of Tribal Cultural Resources. These mitigation measures address (1) the requirement for a Native American cultural monitor to be present for construction, (2) protocol for inadvertent discoveries of tribal cultural resources, (3) reburial protocol, and (4) discovery of human remains. With the implementation of these mitigations, which require continued consultation with the Tribe, AB 52 consultation has concluded.

*Note that as part of the effort to prepare the "Identification And Evaluation Of Historic Properties Groundwater Quality Protection Program Septic-To-Sewer Update Project" by CRM TECH (**Appendix 3**), and as part of the written request to the State of California Native American Heritage Commission (NAHC) for a records search in the Commission's Sacred Lands File (SLF), five of the tribes have responded to the inquiry in writing, and three others have provided their comments by telephone. Among them, the Augustine Band, the Quechan Indian Tribe, and the Santa Rosa Band expressed no concerns over this undertaking. The Quechan Indian Tribe deferred to other tribes in closer proximity to the APE, while the Soboba Band and the Torres Martinez band deferred specifically to the Agua Caliente Band. The Agua Caliente Band also consider the APE a part of their traditional use area. In addition, the Agua Caliente Band reported that there were several tribal cultural resources adjacent to the APE. Therefore, the tribe requested to review all cultural resources documentation generated for this undertaking, including the records search results, which has since been provided as described in the first paragraph above.*

The Twenty-Nine Palms Band stated that they were unaware of any cultural resources in the APE, and the Yuhaaviatam found the area to be low in sensitivity for cultural resources. Both tribes, however, consider the project location to be a part of their traditional territory. The Twenty-Nine Palms Band requested that MSWD protect tribal cultural and cultural resources. Based on the fact that a Native

[1] Note: Conducting consultation early in the CEQA process allows tribal governments, lead agencies, and project proponents to discuss the level of environmental review, identify and address potential adverse impacts to tribal cultural resources, and reduce the potential for delay and conflict in the environmental review process. (See Public Resources Code section 21083.3.2.) Information may also be available from the California Native American Heritage Commission's Sacred Lands File per Public Resources Code section 5097.96 and the California Historical Resources Information System administered by the California Office of Historic Preservation. Please also note that Public Resources Code section 21082.3(c) contains provisions specific to confidentiality.

American monitor will be present during construction, and that the Agua Caliente Band of Mission Indians put forth protocol for treatment of such resources, MSWD believes that this request by the Twenty-Nine Palms Band has been met. Note that this tribe has not requested formal consultation under AB 52. The Yuhaaviatam of San Manuel Nation (YSMN) indicated that it wished to engage in in government-to-government consultation pursuant to AB 52. However, the Tribe has not sent the initial formal consultation request pursuant to AB 52 to MSWD that would require consultation. Regardless, on January 9th, 2026, Mr. Eric Weck of MSWD reached out to the contact at YSMN that was contacted by CRM TECH (refer to ***Appendix 3****) to ascertain whether the Tribe wished to provide MSWD with an initial consultation request from the Tribe pursuant to PRC 21080.3.1(b). To date, MSWD has not received a response back, and therefore considers that no formal AB 52 consultation with the YSMN is required. However, as with the Twenty-Nine Palms Band, a Native American monitor will be present during construction, and MSWD will be required to implement mitigation that the Agua Caliente Band of Mission Indians put forth addressing protocol for treatment of tribal cultural resources.*

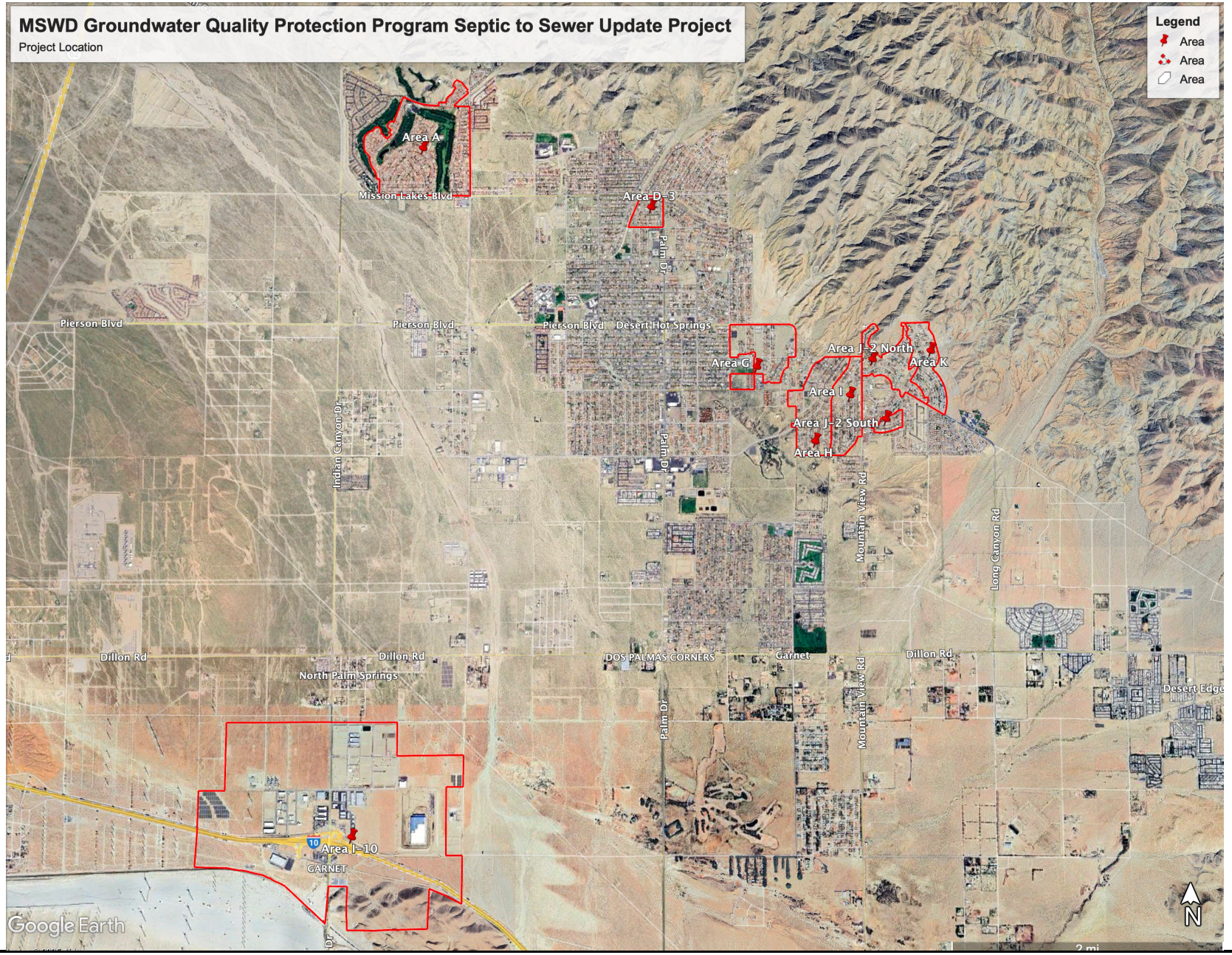


FIGURE 1

APE M

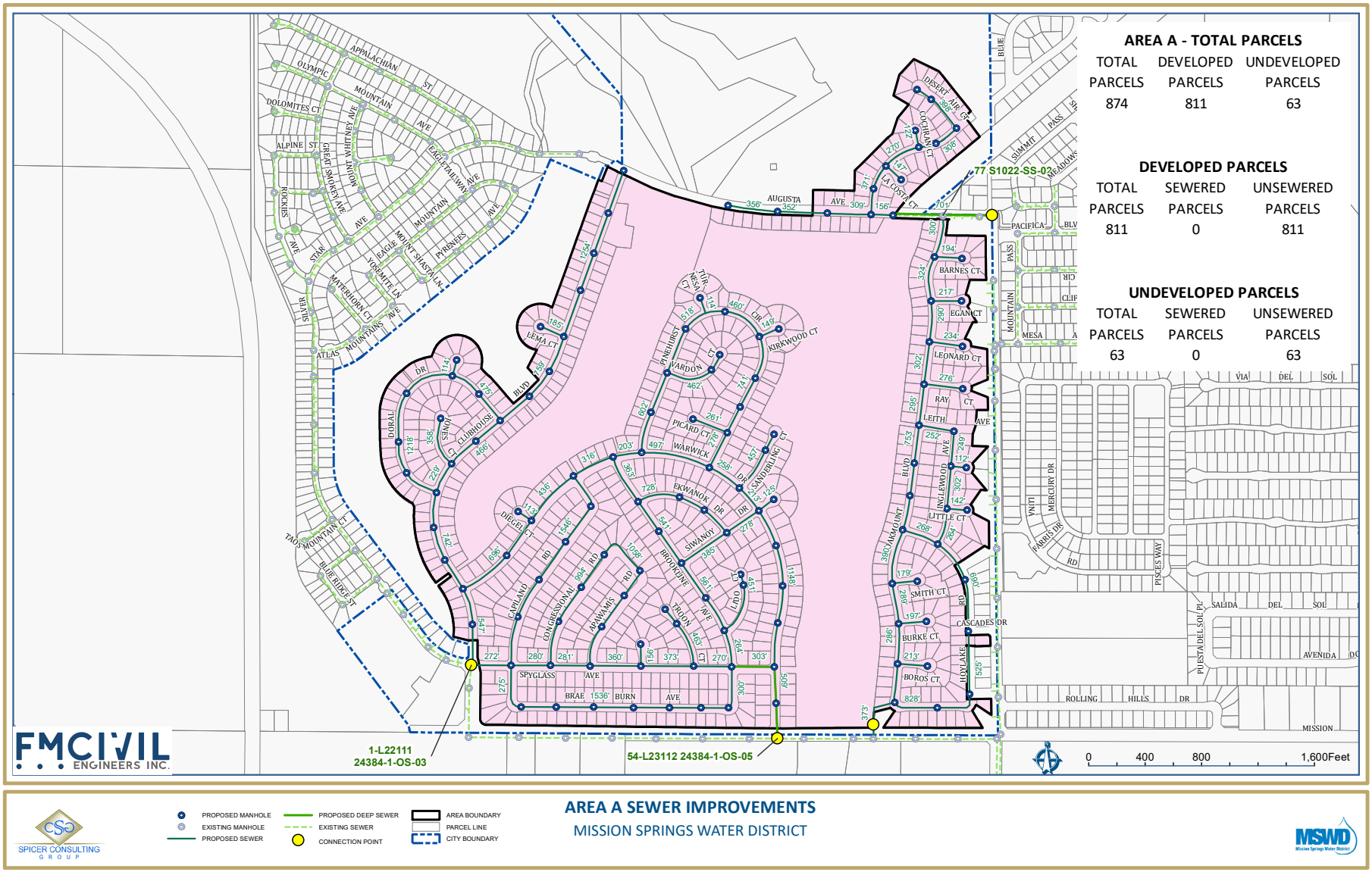


FIGURE 2

Tom Dodson & Associates
Environmental Consultants

Area A Sewer Improvements


AREA A - TOTAL PARCELS
TOTAL PARCELS 874
DEVELOPED PARCELS 811
UNDEVELOPED PARCELS 63
DEVELOPED PARCELS
TOTAL PARCELS 811
SEWERED PARCELS 0
UNSEWERED PARCELS 811
UNDEVELOPED PARCELS
TOTAL PARCELS 63
SEWERED PARCELS 0
UNSEWERED PARCELS 63
77 S1022-SS-03
1-L22111 24384-1-OS-03
54-L23112 24384-1-OS-05
FMCIVIL ENGINEERS INC.
0 400 800 1,600Feet
PROPOSED MANHOLE
EXISTING MANHOLE
PROPOSED SEWER
PROPOSED DEEP SEWER
EXISTING SEWER
CONNECTION POINT
AREA BOUNDARY
PARCEL LINE
CITY BOUNDARY
AREA A SEWER IMPROVEMENTS
MISSION SPRINGS WATER DISTRICT
DEVELOPED
UNDEVELOPED
SPICER CONSULTING GROUP
MSWD

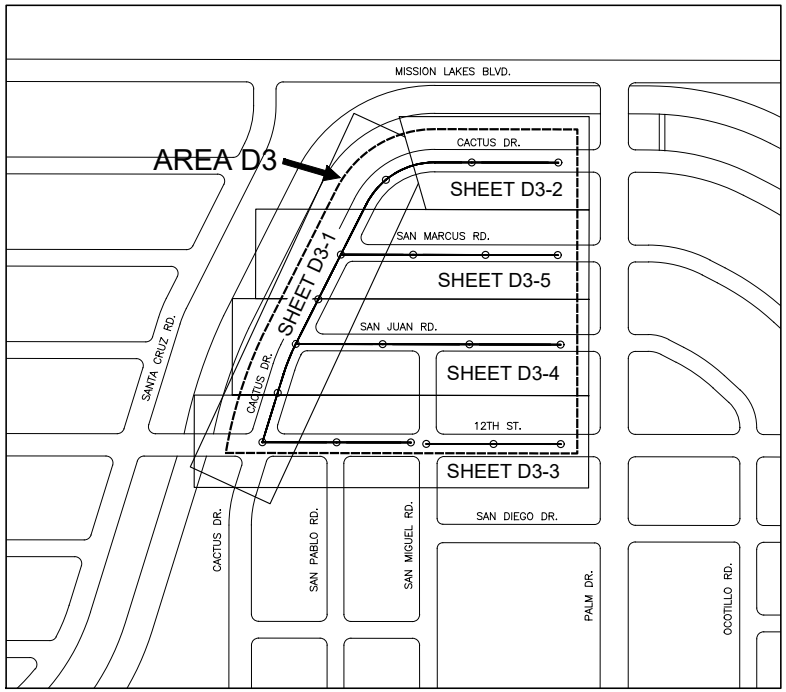
FIGURE 3



FIGURE 4

Tom Dodson & Associates
Environmental Consultant

Area D-3 Sewer Improvements



AD-12 SERVICE AREA D-3 SEWER CONSTRUCTION PROJECT

INDEX OF DRAWINGS

SEQUENCE NUMBER	SHEET NUMBER	DESCRIPTION	STATIONING
1	G-1	COVER SHEET	
2	G-2	GENERAL NOTES, LEGEND, AND SURVEY CONTROL	
3	G-3	INDEX MAP, SHEET INDEX, CONSTRUCITON NOTES, AND QUANITY ESTIMATE	
4	D3-1	AD-12 AREA D3 - CACTUS DRIVE	STA. 23+44.80 TO STA. 35+00.00
5	D3-2	AD-12 AREA D3 - CACTUS DRIVE	STA. 35+00.00 TO STA. 40+18.00
6	D3-3	AD-12 AREA D3 - 12TH STREET	STA. 10+00.00 TO STA. 24+80.00
7	D3-4	AD-12 AREA D3 - SAN JUAN ROAD	STA. 10+00.00 TO STA. 19+45.00
8	D3-5	AD-12 AREA D3 - SAN MARCUS ROAD	STA. 10+00.00 TO STA. 17+74.00
9	D3-6	SEWER LATERAL AND MANHOLE TABLES	

SEWER CONSTRUCTION NOTES AND QUANTITY ESTIMATE:

NO.	ITEM	QUANTITY	UNIT
1	CONSTRUCT 8" DIA. VCP WITH NATIVE BEDDING, CLASS D PER MSWD DWG S-02A & S-01.	4,402	LF
2	CONSTRUCT 8" DIA. VCP WITH SPECIAL BEDDING, CLASS B PER MSWD DWG S-02A & S-01	---	LF
3	ADJUST EXISTING WATER VALVE TO GRADE PER MSWD STD DWG W-02 & W-02A	---	EA
4	ADJUST EXISTING UTILITY VALVE TO GRADE PER UTILITY COMPANY SPECIFICTION	---	EA
5	REMOVE AND REPLACE EXISTING ASPHALT BERM TO MATCH EXISTING	576	LF
6	CONSTRUCT 4" DIA. VCP SEWER LATERAL PER MSWD DWG S-13, S-14 OR S-15	3,572	LF
7	CONSTRUCT 6" DIA. VCP SEWER LATERAL PER MSWD DWG S-13	---	LF
8	HOT TAP MANHOLE AND REFERENCE MSWD STD DWG NO S-10	---	EA
9	CONSTRUCT 8" DIA. VCP CLEANOUT PER MSWD DWG S-12	---	EA
10	CONSTRUCT 8" VCP STUB-OUT FOR FUTURE CONNECTION. PLUG END WITH REMOVABLE WATERTIGHT CAP AS MANUFACTURED BY PIPE MANUFACTURER AND APPROVED BY THE ENGINEER	0	EA
11	REMOVE EXISTING PLUG OR CAP AND CONNECT NEW SEWER PIPE TO EXISTING STUB	3	EA
12	CONTRACTOR SHALL VERIFY THE PIPE EXTENSION LENGTHS, ALIGNMENTS, AND ELEVATIONS. IF DIFFERENT FROM THAT AS SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER	3	EA
13	REMOVE AND REPLACE EXISTING PRIVATE ASPHALT PAVEMENT TO MATCH EXISTING	---	SF
14	CONSTRUCT 4' DIA. MANHOLE PER MSWD DWG S-3, S-4 & S-5	17	EA
15	CONSTRUCT 5' DIA. MANHOLE PER MSWD DWG S-3, S-4 & S-6	---	EA
16	CONSTRUCT TERMINUS MANHOLE W/ LATERALS PER MSWD DWG S-7	---	EA
17	REMOVE AND REPLACE EXISTING PRIVATE CONCRETE DRIVEWAY TO MATCH EXISTING	---	SF
18	REMOVE AND REPLACE EXISTING CONCRETE SIDEWALK TO MATCH EXISTING	144	SF
19	REMOVE AND REPLACE EXISTING CROSS GUTTER PER CITY STANDARD 211	---	SF
20	LIMIT OF ASPHALT PULVERIZATION AND AC PLACEMENT (0.25' AC)	166,420	SF
21	HOT TAP 4" VCP LATERAL PER MSWD DWG S-16	---	LF
22	ADJUST EXISTING SEWER MANHOLE TO GRADE PER MSWD STD DWG NO S-04	2	EA
23	LIMIT OF ASPHALT PULVERIZATION AND AC PLACEMENT (0.35' AC)	---	SF

DIGALERT — DIAL BEFORE YOU DIG — TWO WORKING DAYS BEFORE YOU DIG — DIAL 811 — A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

MSWD Mission Springs Water District

#	REVISIONS	DATE	APP.
1	ISSUED FOR CLIENT REVIEW	08/16/24	

BENCHMARK: RIVERSIDE COUNTY BRASS BENCH MARK DISK STAMPED 833-68-68 IN MONUMENT WELL ON THE NORTHEAST SIDE OF PIERSON BOULEVARD, 180 EAST OF THE CENTERLINE OF LITTLE MORONGO ROAD, 47 SOUTH OF THE CENTERLINE OF PIERSON BOULEVARD AND 15 SOUTH OF THE SOUTH CURB AND 10 SOUTH OF FIRE HYDRANT AND 2 NORTH OF WITNESS POST. PUBLISHED ELEVATION 1102.860 NAVD 88

BASIS OF BEARING: CALIFORNIA COORDINATE SYSTEM (CCS83) ZONE 4 AND BASED LOCALLY ON CORS CONTROL STATIONS "NRMT", "PSAP" AND "MOCY" HAVING, LIL SURVEY FEET. ALL BEARINGS ON THE MAP ARE GRID. ALL DISTANCES SHOWN ARE GROUND DISTANCES. GRID DISTANCES MAY BE OBTAINED BY MULTIPLYING THE GROUND DISTANCE BY A COMBINATION FACTOR OF 0.99991744643.

PREPARED BY: AECOM, 7595 TECHNOLOGY WAY, SUITE 300, DENVER, CO 80237, TEL: (303) 694-2770

SCALE:	SCALE
PLOT DATE:	2024-08-20
DESIGN BY:	DESBY
DRAWN BY:	DRWBY
CHECKED BY:	CHKBY

PREPARED UNDER THE DIRECT SUPERVISION OF: _____ DATE

MSWDREV MSWDDATE

EXP

RECOMMENDED FOR APPROVAL BY: _____ DATE

BRIAN MACY, P.E., GENERAL MANAGER

MISSION SPRINGS WATER DISTRICT

SEWER IMPROVEMENT PLANS

INDEX MAP, SHEET INDEX, CONSTRUCTION NOTES AND QUANTITY ESTIMATE

DWG. G-3

3 OF 9

PRIVATE REFERENCE #

MSWD REFERENCE # 11128

C:\Users\cchavez\ox\OneDrive - AECOM\Directory\PROJECT FOLDERS\Mission Springs\20-SHEETS\03 - G-3.dwg 08/20/2024 10:50

FIGURE 5

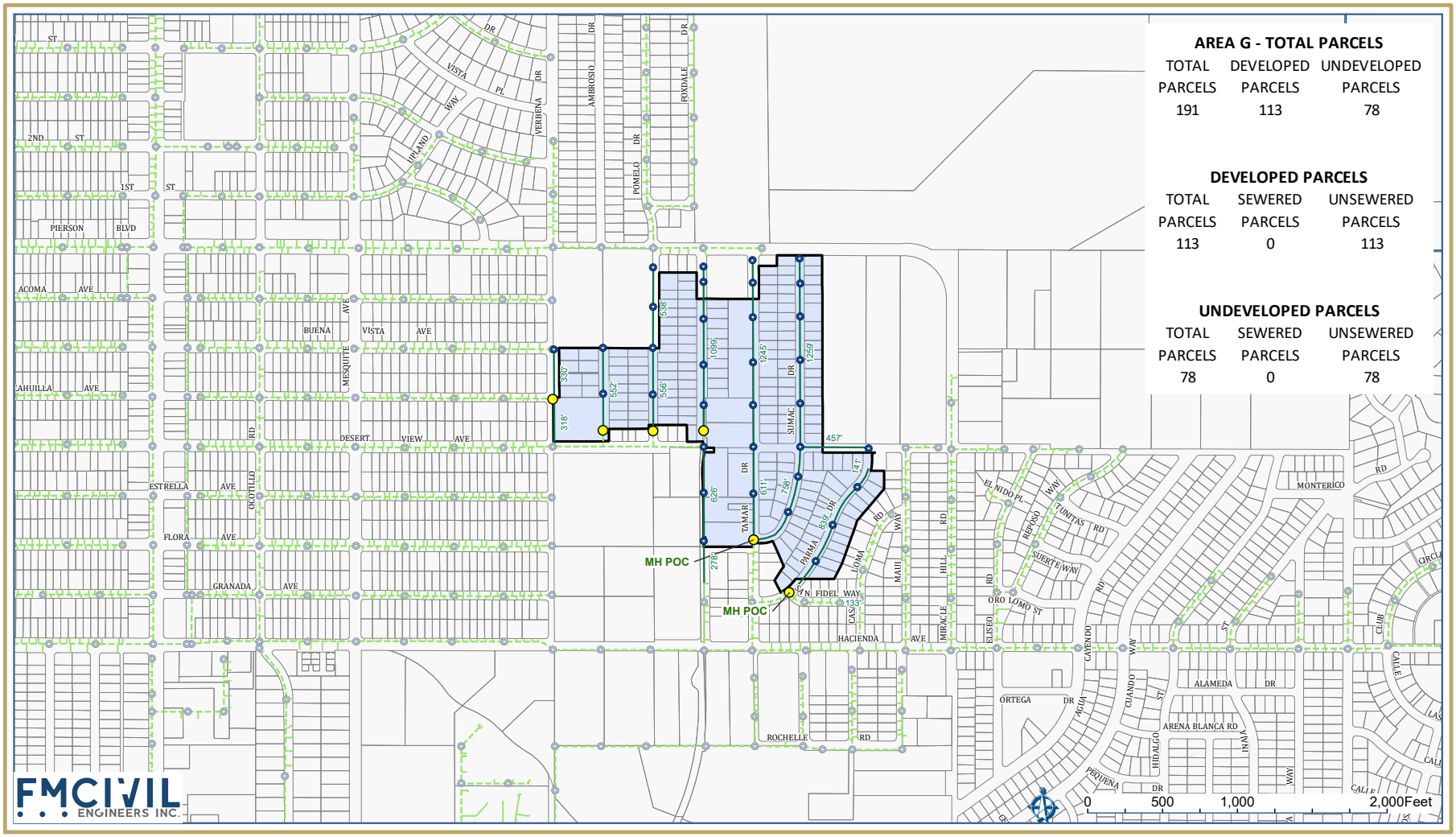


FIGURE 6

Tom Dodson & Associates
Environmental Consultants

Area G Sewer Improvements

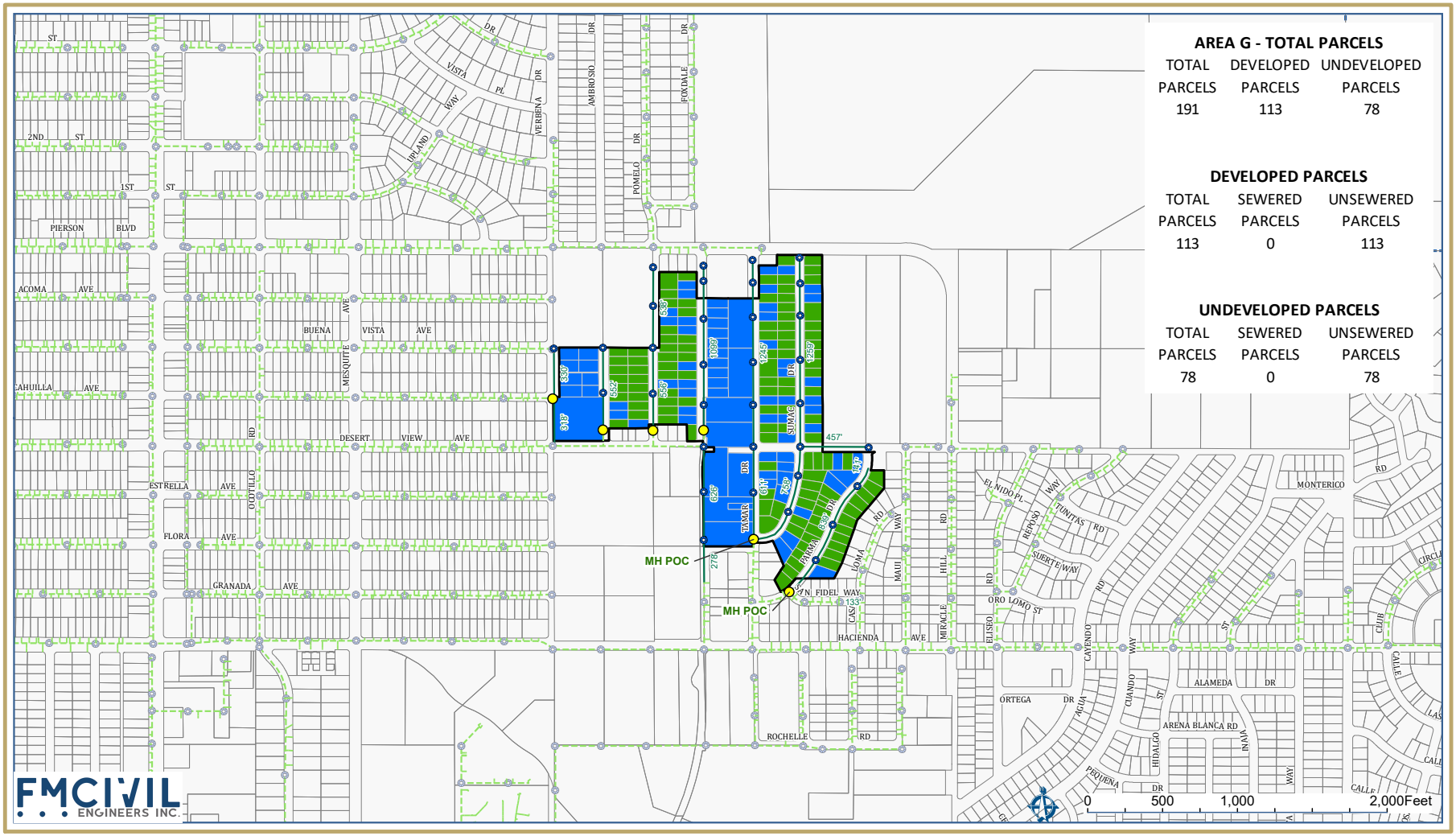


FIGURE 7

Tom Dodson & Associates
Environmental Consultants

Area G Sewer Improvements

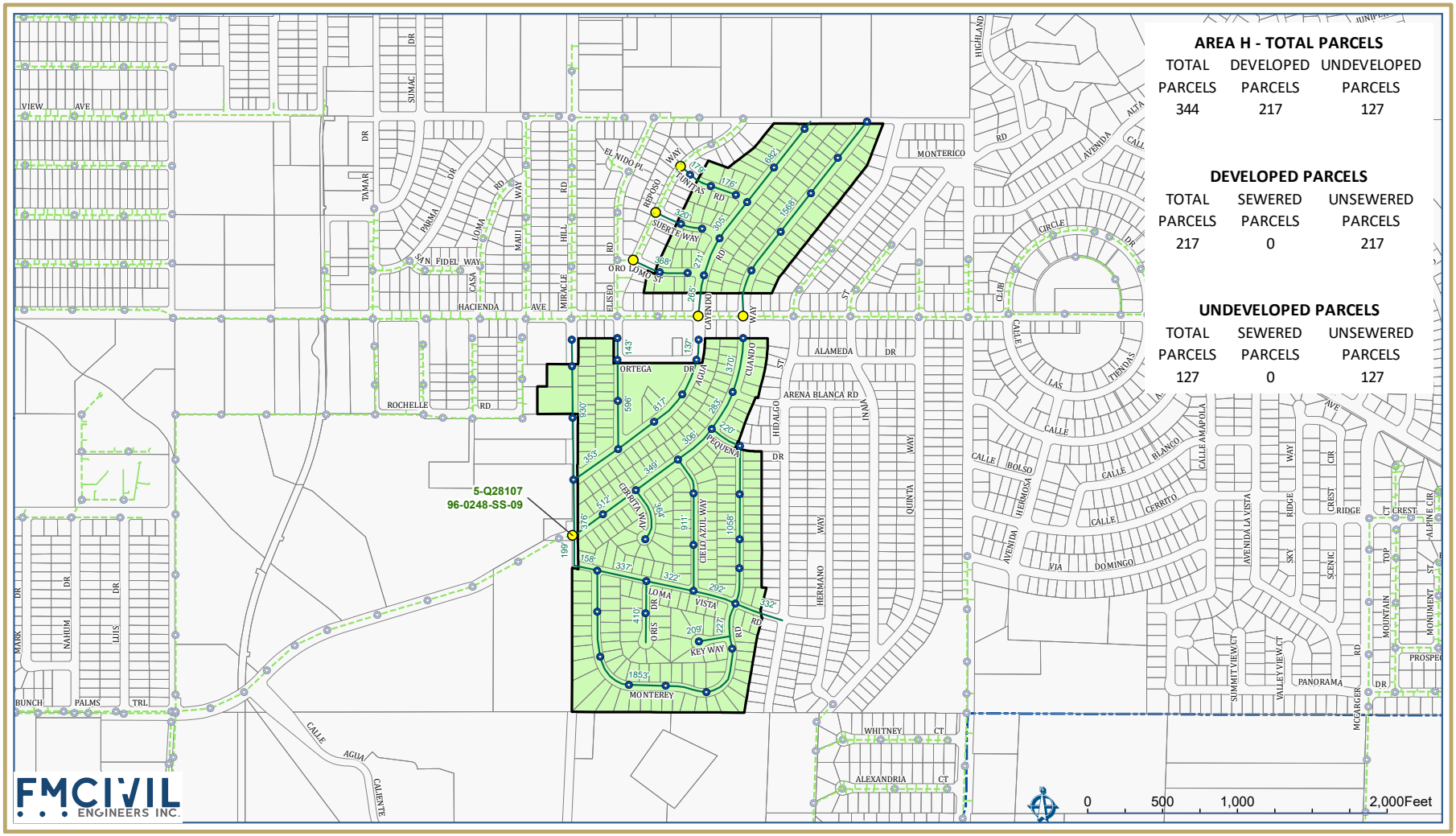


FIGURE 8

Tom Dodson & Associates
Environmental Consultants

Area H Sewer Improvements

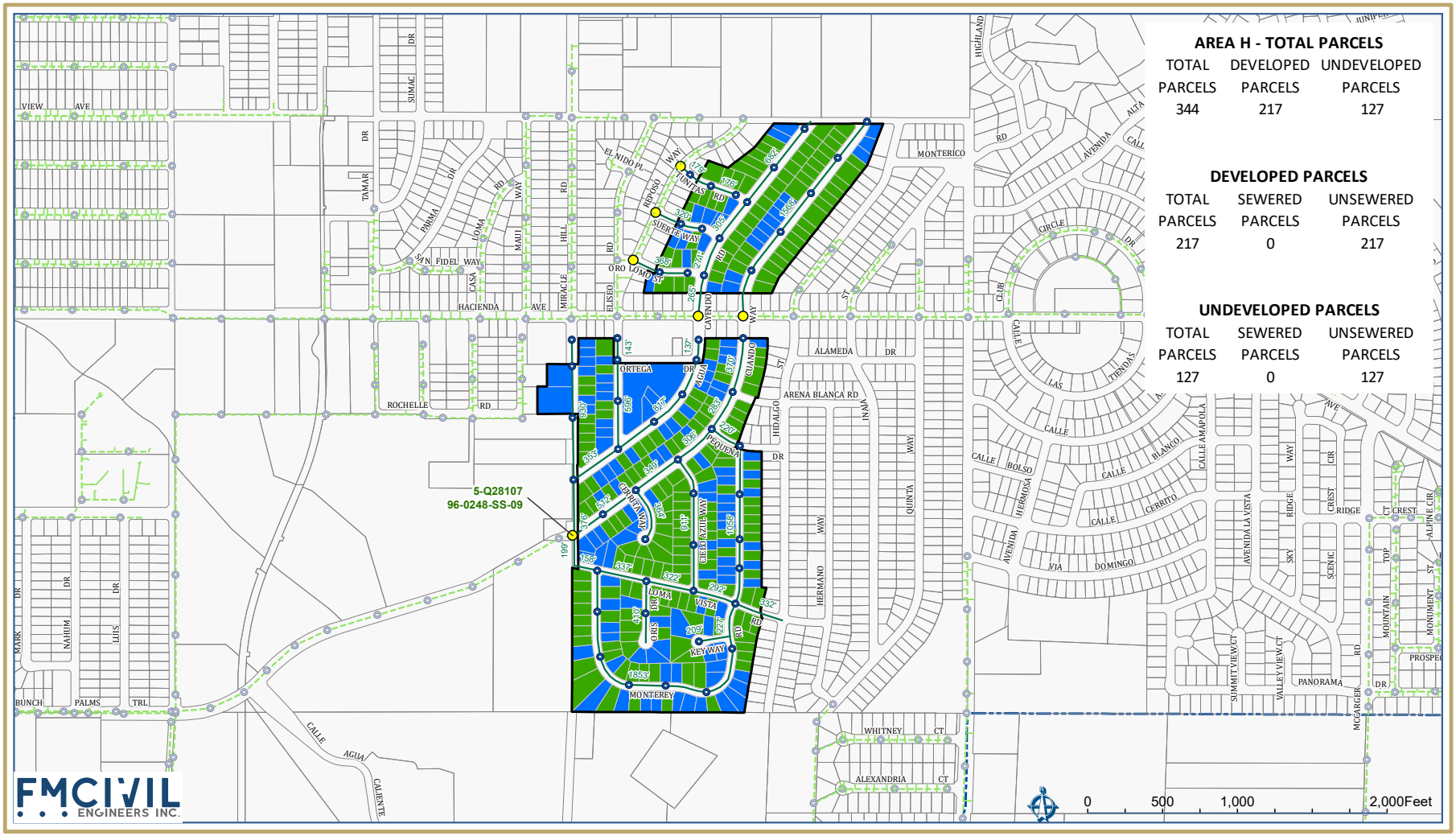

AREA H - TOTAL PARCELS
TOTAL PARCELS 344
DEVELOPED PARCELS 217
UNDEVELOPED PARCELS 127
DEVELOPED PARCELS
TOTAL PARCELS 217
SEWERED PARCELS 0
UNSEWERED PARCELS 217
UNDEVELOPED PARCELS
TOTAL PARCELS 127
SEWERED PARCELS 0
UNSEWERED PARCELS 127
5-Q28107
96-0248-SS-09
FMCIVIL ENGINEERS INC.
0
500
1,000
2,000Feet
AREA H SEWER IMPROVEMENTS
MISSION SPRINGS WATER DISTRICT
SPICER CONSULTING GROUP
PROPOSED MANHOLE
PROPOSED SEWER
EXISTING SEWER
CONNECTION POINT
AREA BOUNDARY
PARCEL LINE
CITY BOUNDARY
DEVELOPED
UNDEVELOPED
MSWD

FIGURE 9

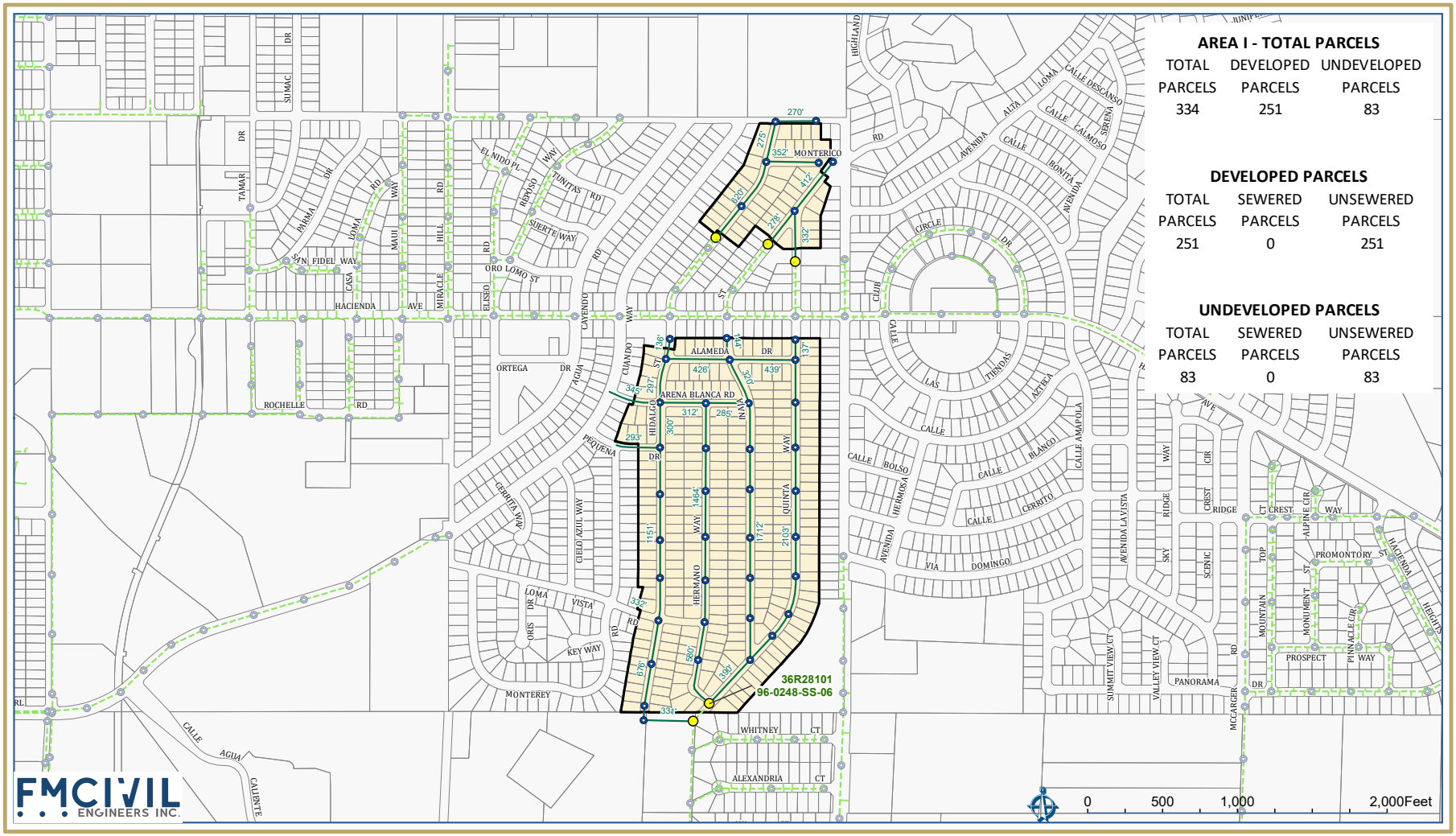


FIGURE 10

Tom Dodson & Associates
Environmental Consultants

Area I Sewer Improvements



FIGURE 11

Tom Dodson & Associates
Environmental Consultants

Area I Sewer Improvements

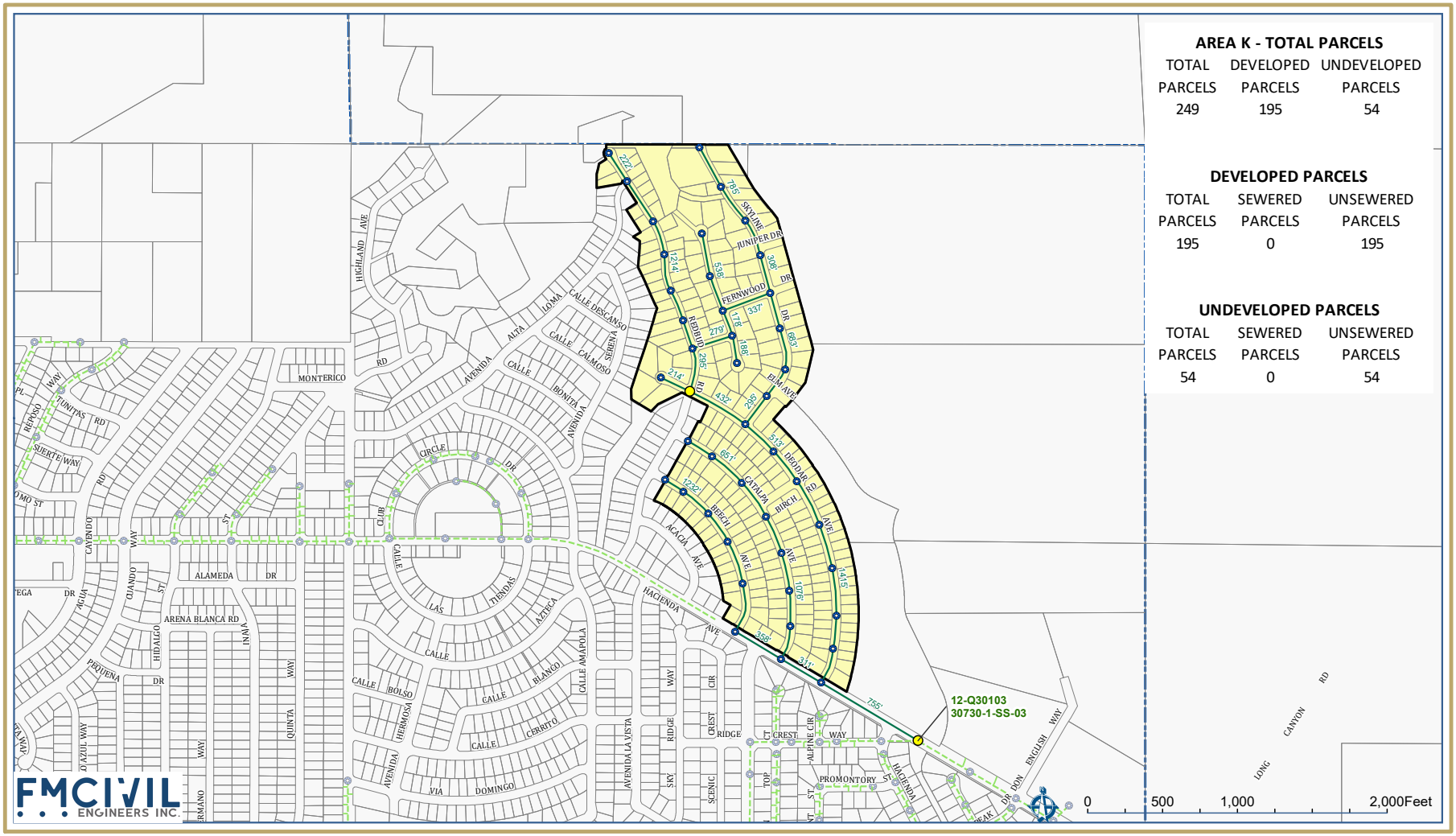


FIGURE 12

Tom Dodson & Associates
Environmental Consultants

Area K Sewer Improvements

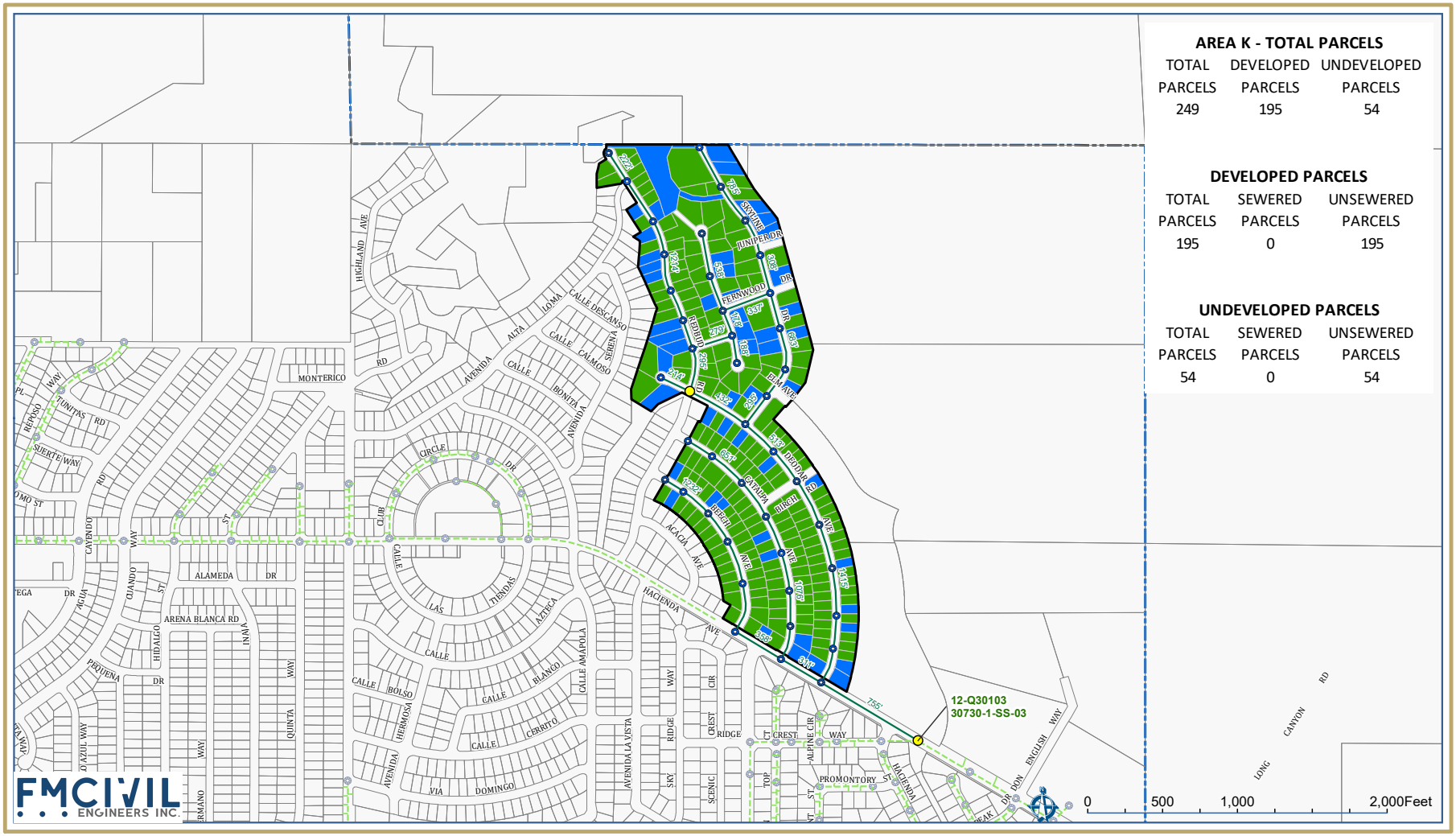


FIGURE 13

Tom Dodson & Associates
Environmental Consultants

Area K Sewer Improvements

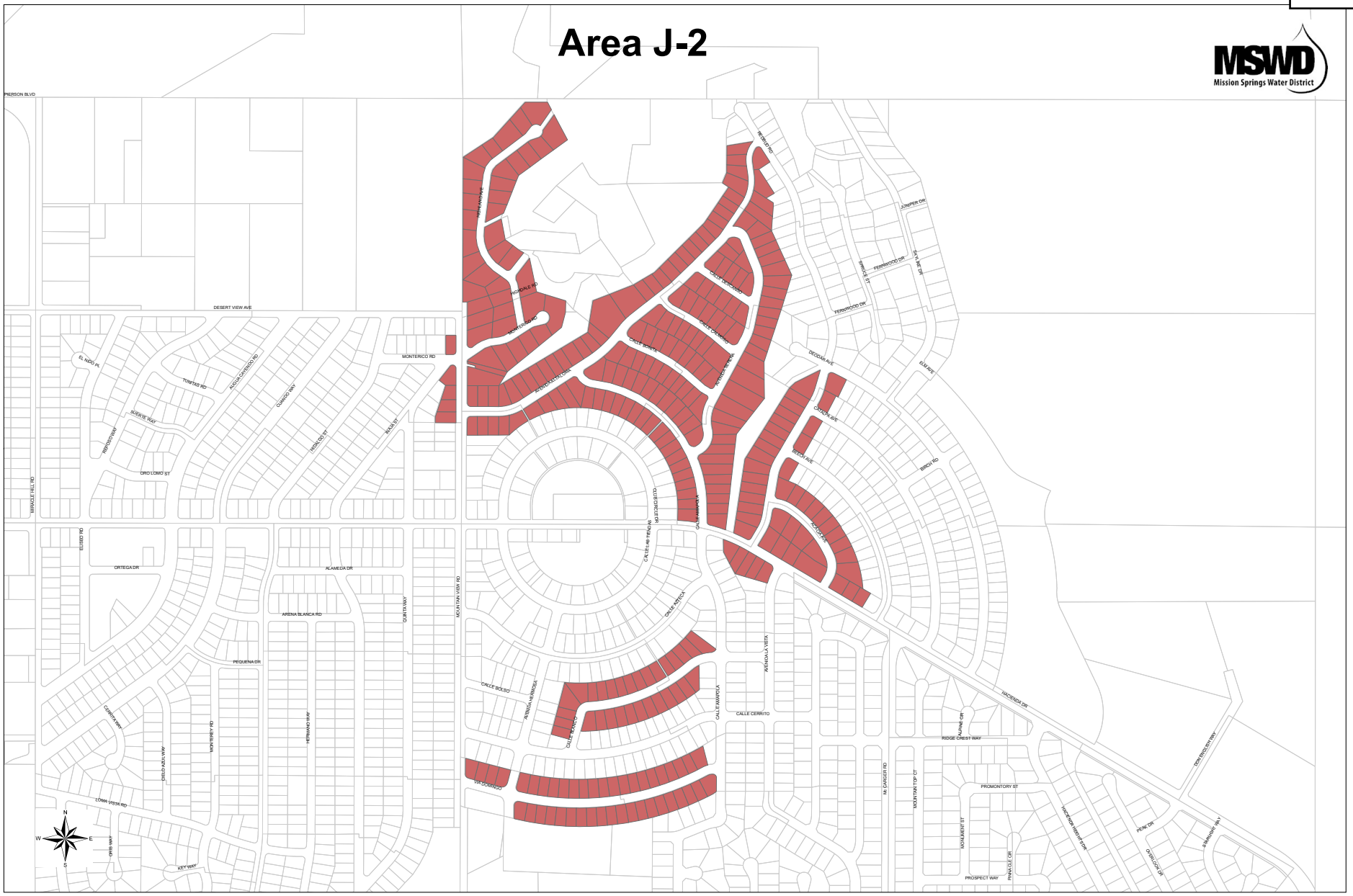


FIGURE 14

Tom Dodson & Associates
Environmental Consultants

Area J-2 Sewer Improvements

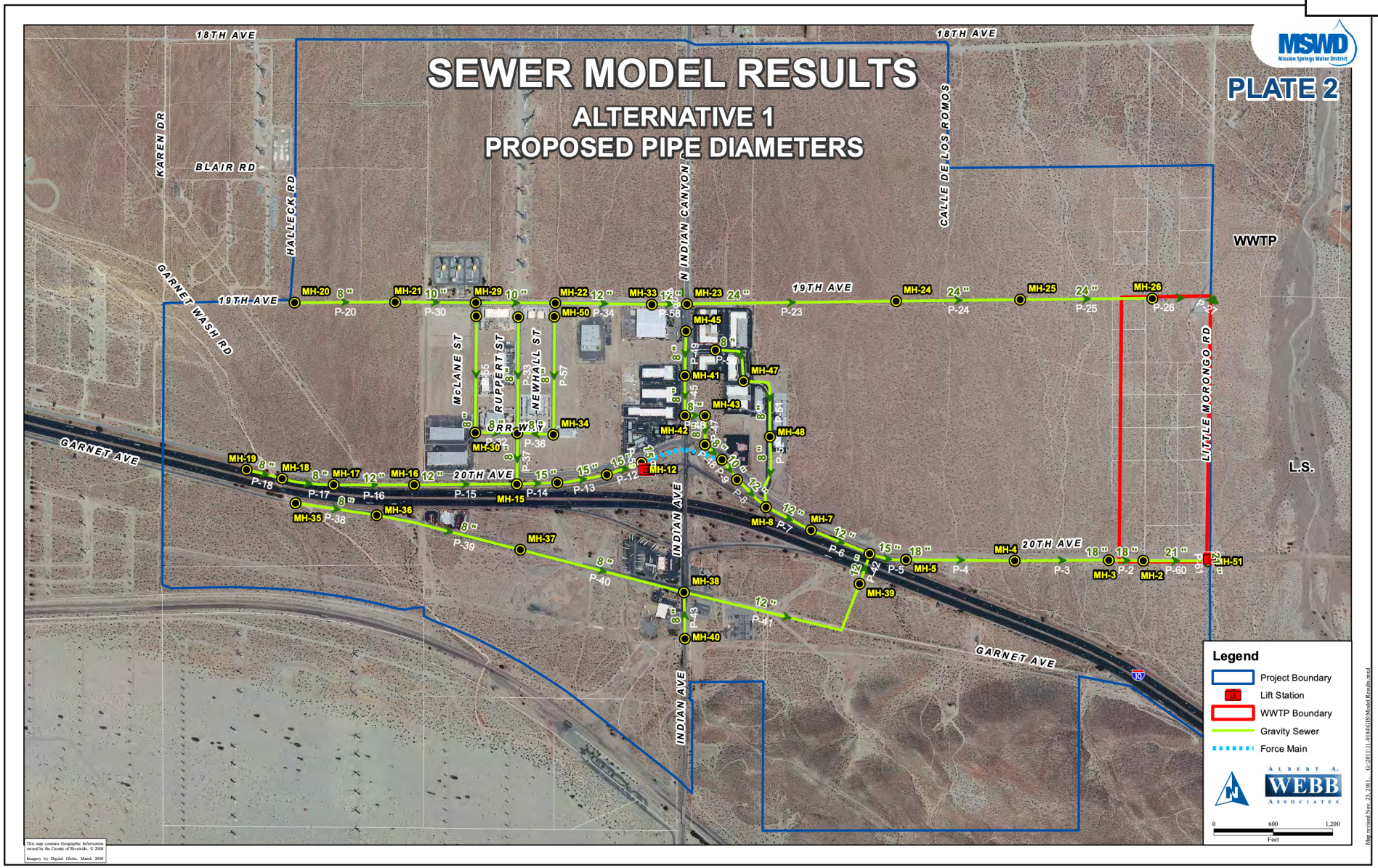

SEWER MODEL RESULTS
ALTERNATIVE 1
PROPOSED PIPE DIAMETERS
PLATE 2
MSWD
Mission Springs Water District
18TH AVE
KAREN DR
BLAIR RD
HALLECK RD
GARNET WASH RD
19TH AVE
McLANE ST
RUPPERT ST
NEWHALL ST
RR R/W
GARNET AVE
20TH AVE
INDIAN AVE
N INDIAN CANYON DR
CALLE DE LOS ROMOS
LITTLE MORONGO RD
WWTP
L.S.
MH-19
MH-18
MH-17
MH-16
MH-15
MH-36
MH-35
MH-37
MH-38
MH-40
MH-34
MH-30
MH-20
MH-21
MH-29
MH-22
MH-50
MH-33
MH-23
MH-45
MH-41
MH-47
MH-43
MH-42
MH-48
MH-12
MH-8
MH-7
MH-39
MH-4
MH-5
MH-3
MH-2
MH-24
MH-25
MH-26
MH-51
Legend
Project Boundary
Lift Station
WWTP Boundary
Gravity Sewer
Force Main
ALBERT A. WEBB ASSOCIATES
0
600
1,200
Feet

FIGURE 15

ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact" as indicated by the checklist on the following pages.

☒ Aesthetics	☐ Agriculture and Forestry Resources	☐ Air Quality
☒ Biological Resources	☒ Cultural Resources	☐ Energy
☒ Geology / Soils	☐ Greenhouse Gas Emissions	☒ Hazards & Hazardous Materials
☒ Hydrology & Water Quality	☐ Land Use / Planning	☐ Mineral Resources
☒ Noise	☐ Population / Housing	☒ Public Services
☐ Recreation	☒ Transportation	☒ Tribal Cultural Resources
☒ Utilities / Service Systems	☒ Wildfire	☒ Mandatory Findings of Significance

DETERMINATION

(To be completed by the Lead Agency)

On the basis of this initial evaluation, the following finding is made:

☐	The proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.
☒	Although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.
☐	The proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.
☐	The proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.
☐	Although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

Tom Dodson & Associates — Prepared by

03/03/26 — Date



Lead Agency (signature)

03/18/2026 — Date

EVALUATION OF ENVIRONMENTAL IMPACTS:

1) A brief explanation is required for all answers except "No Impact" answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question. A "No Impact" answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A "No Impact" answer should be explained where it is based on project-specific factors as well as general standards (e.g., the project will not expose sensitive receptors to pollutants, based on a project-specific screening analysis).

2) All answers must take account of the whole action involved, including off-site as well as on-site, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.

3) Once the lead agency has determined that a particular physical impact may occur, then the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. "Potentially Significant Impact" is appropriate if there is substantial evidence that an effect may be significant. If there are one or more "Potentially Significant Impact" entries when the determination is made, an EIR is required.

4) "Negative Declaration: Less Than Significant With Mitigation Incorporated" applies where the incorporation of mitigation measures has reduced an effect from "Potentially Significant Impact" to a "Less Than Significant Impact." The lead agency must describe the mitigation measures, and briefly explain how they reduce the effect to a less than significant level (mitigation measures from "Earlier Analyses," as described in (5) below, may be cross-referenced).

5) Earlier analyses may be used where, pursuant to the tiering, program EIR, or other CEQA process, an effect has been adequately analyzed in an earlier EIR or negative declaration. Section 15063(c)(3)(D). In this case, a brief discussion should identify the following:

   a) Earlier Analysis Used. Identify and state where they are available for review.
   b) Impacts Adequately Addressed. Identify which effects from the above checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.
   c) Mitigation Measures. For effects that are "Less than Significant with Mitigation Measures Incorporated," describe the mitigation measures which were incorporated or refined from the earlier document and the extent to which they address site-specific conditions for the project.

6) Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g., general plans, zoning ordinances). Reference to a previously prepared or outside document should, where appropriate, include a reference to the page or pages where the statement is substantiated.

7) Supporting Information Sources: A source list should be attached, and other sources used or individuals contacted should be cited in the discussion.

8) This is only a suggested form, and lead agencies are free to use different formats; however, lead agencies should normally address the questions from this checklist that are relevant to a project's environmental effects in whatever format is selected.

9) The explanation of each issue should identify:

   a) the significance criteria or threshold, if any, used to evaluate each question; and
   b) the mitigation measure identified, if any, to reduce the impact to less than significance.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact or Does Not Apply
I. AESTHETICS: Except as provided in Public Resources Code Section 21099, would the project:				
a) Have a substantial adverse effect on a scenic vista?	☐	☐	☐	☒
b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?	☐	☐	☐	☒
c) In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning or other regulations governing scenic quality?	☐	☐	☐	☒
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	☐	☒	☐	☐

SUBSTANTIATION

Impact Analysis

a. *No Impact* – MSWD proposes to install 142,000 LF of 8-inch sewer pipeline within Areas A, D-3, G, H, I, J-2, K, and along the I-10 corridor to eliminate septic tanks that threaten contamination of potable groundwater supplies by expanding MSWD's wastewater collection system. This project also includes abating more than 2,040 septic tanks, and connecting 2,600 parcels to the District's sewer collection system, as well as installation of an estimated 2,500 new 4- to 6-inch service laterals. The proposed project will install the new sewer pipeline and laterals belowground within existing roadways, and compacted dirt right-of-way. The dominant landscape feature of the project footprint is the Little San Bernardino Mountains that are located to the north and east. Additionally, middle- and background views within the City of Desert Hot Springs include the San Bernardino Mountains to the west, and the San Jacinto and Santa Rosa Mountains to the southwest and south, which also provide dramatic and valuable viewsheds. The proposed project site is located throughout MSWD's service area, as shown on Figure 1 just south of the Little San Bernardino Mountains.

The presence of construction equipment and related construction materials would be visible from public vantage points, such as open space areas, sidewalks, and streets, but it would not adversely affect any scenic views or vistas. Construction of the sewer pipelines (henceforth covering pipelines and laterals) would not permanently affect views or scenic vistas as these features would be located belowground, most commonly within existing roadways. Furthermore, construction activities are routine within urban and suburban areas, and therefore do not typically constitute a significant aesthetic or scenic vista impact. Once constructed, the proposed pipelines would be underground and would not be visible; the roadways will be returned to their original condition, and repaved, the

areas of disturbance internal to the project sites would be re-covered with the same materials, and in other areas, would be constructed utilizing tunnel methods. Given that the project would not degrade views to nearby scenic vistas and that the RW pipeline installation will ultimately result in repaving sections of roadway and concrete, and revegetating of vegetated areas, the proposed project would not substantially alter the views in the project footprint over the long-term. Thus, implementation of the proposed Proposition 1 Recycled Water Project is not expected to cause any substantial adverse effects on any important scenic vistas. No impacts are anticipated and no mitigation is required.

b. *No Impact* – The proposed project will install the new sewer pipeline and laterals belowground within existing roadways and compacted dirt right-of-way, and will also facilitate septic tank abatement as described in the Project Description. None of the roadways within which the proposed project will be installed are designated as a scenic highway by the State of California. The nearest officially designated State scenic highway is State Highway 62 located approximately 2.4 miles west of the nearest point within the project footprint. Highway 62 is the main corridor gateway to Joshua Tree National Park and the main arterial roadway for the communities of Yucca Valley, Joshua Tree and Twenty-Nine Palms. While portions of the project area may be visible from Highway 62, the construction activities would be at a great distance such that project activities would not be distinctly visible from Highway 62. Further, pipelines would be placed underground, and would not be visible once construction is complete. Additionally, the septic systems that would be abated are located belowground, and the ground level surface would be improved upon the completion of the abatement activities, thereby resulting in no permanent aboveground impacts. As a result, no impacts to the State Scenic Highway are anticipated. No rock outcroppings or historic buildings exist within the project footprint that would be adversely impacted by the proposed project, though as discussed in Table VII-1, Soil Units in Project Footprint, on the outskirts of Areas A, J-2 and K there are soils designated as rock outcrop, but these areas fall outside of the area of potential effect (APE) for the proposed project. As the proposed project would be constructed mostly within existing disturbed rights-of-way, no trees will be impacted by installation of the proposed sewer pipeline and laterals. Based on the lack of any intrinsic onsite scenic resources, the proposed project will not cause substantial project-specific damage to any such resources. No impacts are anticipated to occur under this issue and no mitigation is required.

c. *No Impact* – The project site is located within urbanized areas within Unincorporated Riverside County, as well as the City of Desert Hot Springs, with limited area located in a lesser developed, but still urbanized portion of the City of Palm Springs. The proposed project will install the new sewer pipeline and laterals belowground within existing roadways and compacted dirt right-of-way, and will also facilitate septic abatement as described in the Project Description. The proposed sewer pipelines would be placed underground and would not be visible once construction is complete. Additionally, the septic systems that would be abated are located belowground, and the ground level surface would be improved upon the completion of the abatement activities, thereby resulting in no permanent aboveground impacts. As the roadways in which the pipelines are installed will be repaved as each segment of pipeline installation is completed, and as the ground level surface at septic abatement locations will be improved upon abatement completion, construction and operation of the proposed project will have no potential to conflict with applicable zoning or other regulations governing scenic quality. No impacts are anticipated to occur under this issue and no mitigation is required.

d. *Less Than Significant with Mitigation Incorporated* – There will be no new lighting associated with the proposed project. The proposed sewer pipelines would be placed underground and would not be visible once construction is complete. Additionally, the septic systems that would be abated are located belowground, and the ground level surface would be improved upon the completion of the abatement activities, thereby resulting in no permanent aboveground impacts. No reflective materials or coatings are associated with this project. The construction activities are limited to daylight hours unless an emergency occurs. However, if nighttime construction is required for any of the sewer pipeline alignments, nighttime lighting at construction sites would contribute to ambient light and could adversely affect views in the area at night, which could result in a significant light and/or glare impact. Thus, mitigation (Mitigation Measure [**MM] AES-1**) is required to ensure that no lighting intrudes into sensitive areas and to ensure directing light and shielding is used to minimize off-site illumination.

AES-1 ***The project shall implement at least the following measures, unless they conflict with the local jurisdiction's light requirements, in which case the local jurisdiction's requirements shall be enforced:***

- ***Use of low-pressure sodium lights where security needs require such lighting to minimize impacts of glare.***
- ***The height of lighting fixtures shall be lowered to the lowest level consistent with the purpose of the lighting to reduce unwanted illumination.***
- ***Directing light and shielding shall be used to minimize off-site illumination during both construction of the project.***
- ***No light shall be allowed to intrude into sensitive light receptor areas during both construction of the project.***
- ***Non-reflective materials and/or coatings shall be used on the exterior of all facilities if constructed in a publicly visible location (such as from a roadway or public facility).***

Therefore, with no permanent aboveground features, it is not anticipated that the site would create any new permanent sources of light or glare during operation. However, the implementation of **MM AES-6** would ensure that light and glare impacts from the project are minimized to a level of less than significant.

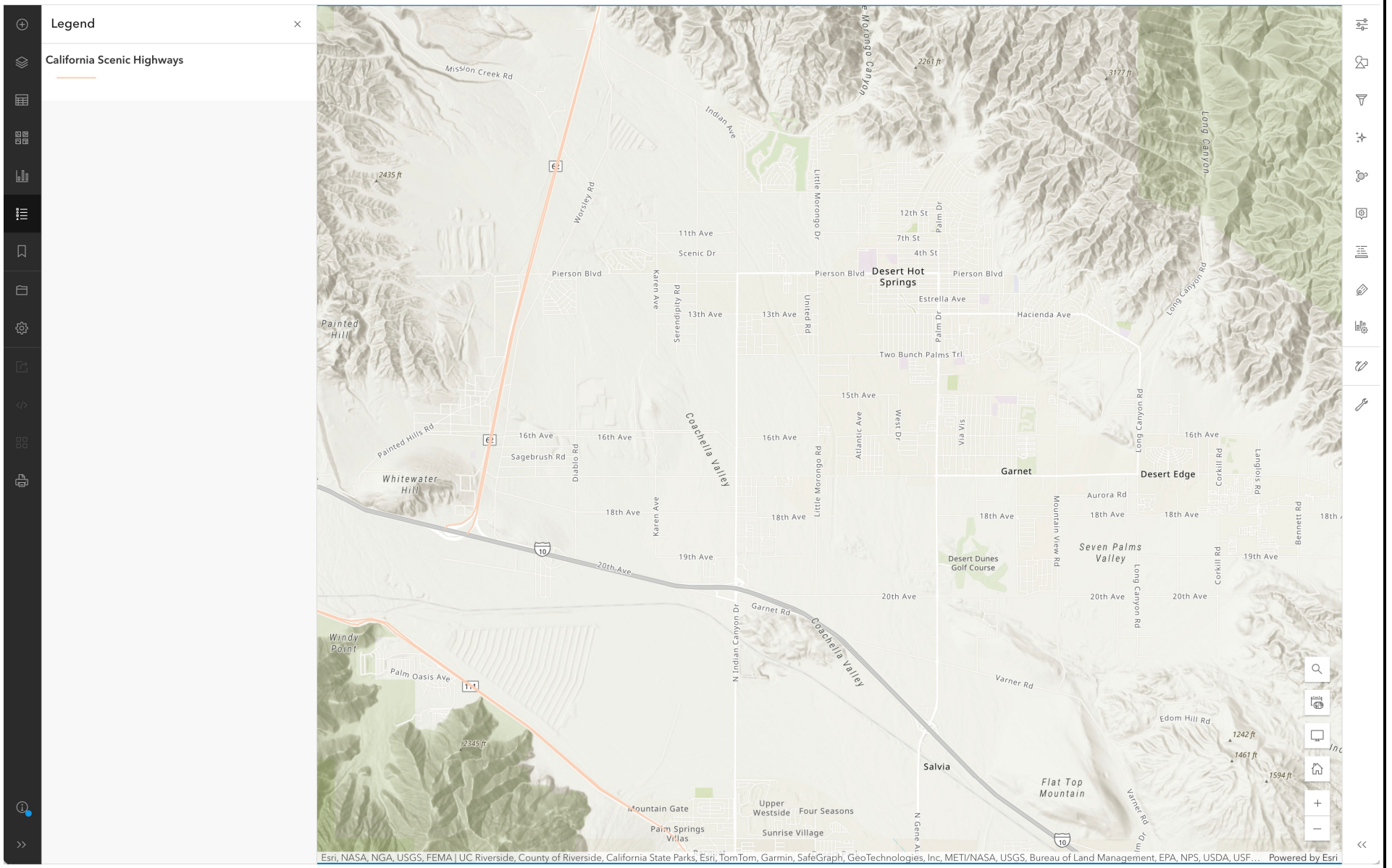

Legend
California Scenic Highways
Mission Creek Rd
Indian Ave
Worsley Rd
Little Morongo Canyon
Long Canyon
2435 ft
2261 ft
3177 ft
Painted Hill
Pierson Blvd
Desert Hot Springs
Karen Ave
Serendipity Rd
Juniper Rd
Palm Dr
Estrella Ave
Hacienda Ave
Two Bunch Palms Trl
Long Canyon Rd
Painted Hills Rd
Sagebrush Rd
Diablo Rd
Coachella Valley
Little Morongo Rd
Atlantic Ave
Via Vis
Garnet
Desert Edge
Aurora Rd
Corkill Rd
Whitewater Hill
Mountain View Rd
Seven Palms Valley
Desert Dunes Golf Course
Bennett Rd
Langlois Rd
20th Ave
Garnet Rd
N Indian Canyon Dr
Windy Point
Palm Oasis Ave
Varner Rd
Edom Hill Rd
2345 ft
1242 ft
1461 ft
1594 ft
Salvia
Flat Top Mountain
Mountain Gate
Upper Westside
Four Seasons
Palm Springs Villas
Sunrise Village
Esri, NASA, NGA, USGS, FEMA | UC Riverside, County of Riverside, California State Parks, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, USDA, USF...
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FIGURE I-1

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact or Does Not Apply
II. AGRICULTURE AND FORESTRY RESOURCES: In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Dept. of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. Would the project:				
a) Convert Prime Farmland, Unique Farmland or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?	☐	☐	☐	☒
b) Conflict with existing zoning for agricultural use or a Williamson Act contract?	☐	☐	☐	☒
c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?	☐	☐	☐	☒
d) Result in the loss of forest land or conversion of forest land to non-forest use?	☐	☐	☐	☒
e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?	☐	☐	☐	☒

SUBSTANTIATION

Impact Analysis

a. *No Impact* – The proposed project footprint is located within the City of Desert Hot Springs, with limited area within portion of the City of Palm Springs. The whole of the project area is urbanized,

with some vacant land that is located within areas with emerging development. Neither the project footprint nor the adjacent and surrounding properties are designated for agricultural use; no agricultural activities exist in the project area; and there is no potential for impact to any agricultural uses or values as a result of project implementation. According to the maps prepared pursuant to the farmland mapping and monitoring program of the California Resources Agency, no prime farmland, unique farmland, or farmland of statewide importance exists within the vicinity of the proposed project (**Figure II-1**). As shown on **Figure II-1,** the only areas containing designated farmland are in the southeastern portions of the City of Desert Hot Springs. As a result, no adverse impact to any agricultural resources would occur from implementing the proposed Project. No mitigation is required.

b. *No Impact* – The project footprint is not now included in a Williamson Act contract or an Agricultural Preserve. Based on these facts, the proposed project will not cause a significant direct impact or conflict with the Williamson Act or an existing agricultural use. The project footprint is not currently being farmed and the land use designations support predominantly residential, industrial, commercial, and open space uses. Furthermore, the surrounding uses are not agricultural in nature. Furthermore, the City of Desert Hot Springs does not have any current land use designations or zoning classifications for agricultural use. According to the Riverside County Williamson Act Lands Map from the Williamson Act Program (2007), there are no sites within the project footprint are under a Williamson Act Land Conservation Contract. Therefore, no potential for indirect effects on agricultural resources or values would occur due to implementation of the GQPP Septic to Sewer Project.

c. *No Impact* – There are no existing zoning ordinances that pertain to forest land, timberland, or timberland zoned Timberland Production. The land use designations within the project footprint are predominantly residential, industrial, commercial, and open space uses. Furthermore, the surrounding uses are not related to forestry uses. Additionally, according to the City of Desert Hot Springs General Plan, there are no land use designations that pertain to forest land, timberland, or timberland zoned Timberland Production. While the City of Palm Springs contains a land use for Mountainous Open Space, Timberland Production is not a permitted use within the affected project area. Further, the portions of the project located in the City of Palm Springs do not support timberland resources or forest land. Therefore, the no potential for indirect effects to existing zoning for forest land, timberland, or timberland zoned Timberland Production would occur due to implementation of the GQPP Septic to Sewer Project.

d. *No Impact* – As described in the preceding evaluation, there are no forest lands within the project footprint. No potential for loss of forest land would occur if the project is implemented. No mitigation is required.

e. *No Impact* – Because the project site and surrounding area do not support either agricultural or forestry uses and, furthermore, because the project site and environs are not designated for such uses, implementation of the proposed project would not cause or result in the conversion of farmland or forest land to alternative use. No adverse impact would occur. No mitigation is required.

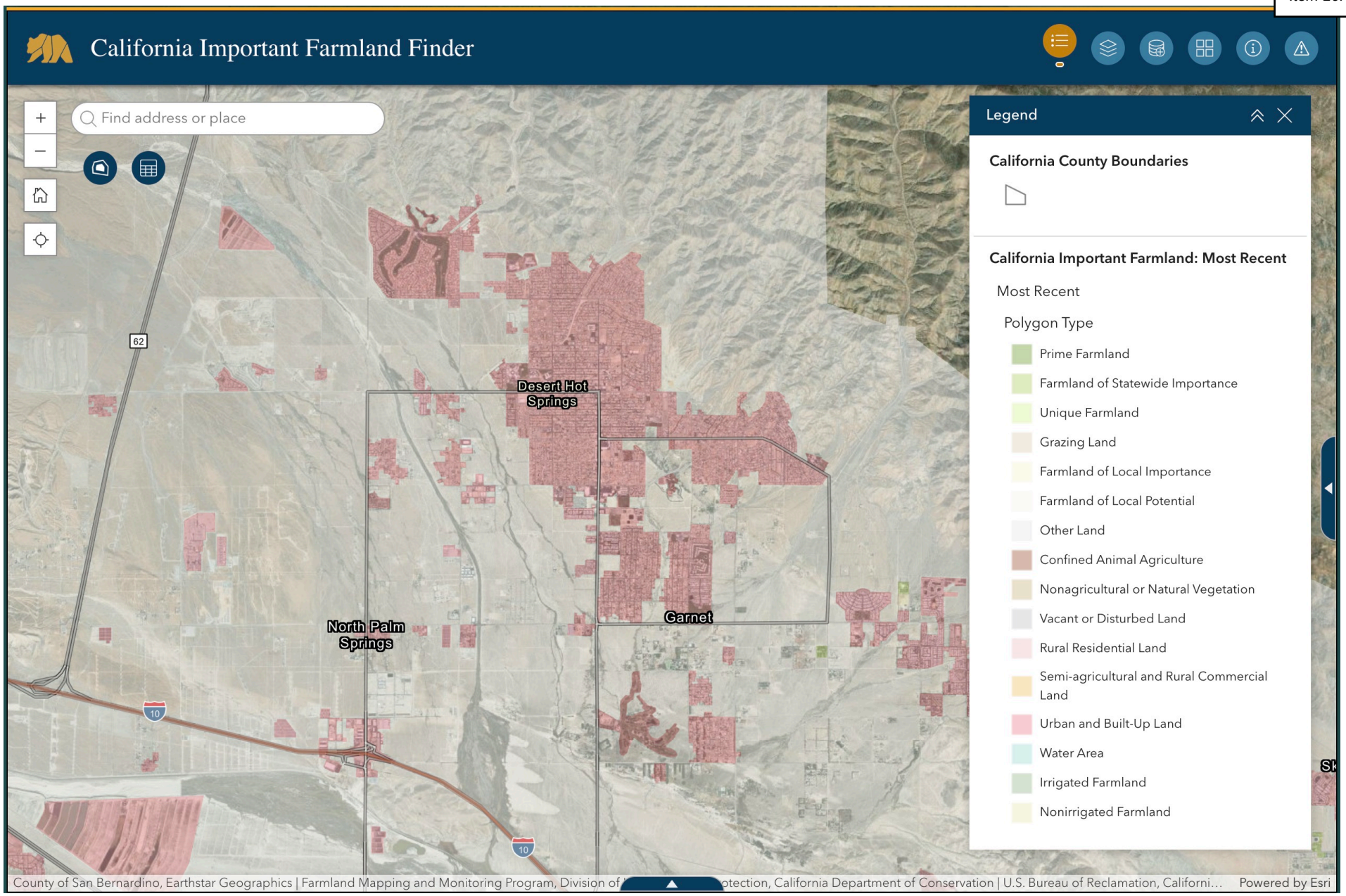


FIGURE II-1

Tom Dodson & Associates
Environmental Consultants

California Important Farmland Finder Map

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact or Does Not Apply
III. AIR QUALITY: Where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make the following determinations. Would the project:				
a) Conflict with or obstruct implementation of the applicable air quality plan?	☐	☐	☒	☐
b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?	☐	☐	☒	☐
c) Expose sensitive receptors to substantial pollutant concentrations?	☐	☐	☒	☐
d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?	☐	☐	☒	☐

SUBSTANTIATION: The following information utilized in this section of the Initial Study was obtained from the following technical study: *Mission Springs-306 Air Quality & Greenhouse Gas Assessment* prepared by Urban Crossroads dated November 3, 2025. This technical study is provided as **Appendix 1** to this document.

Background

The project site is located within the Salton Sea Air Basin (SSAB) within the jurisdiction of the SCAQMD. The SSAB is aligned in a north-west-southwest orientation stretching from Banning Pass to the Mexican border. The regional climate, as well as the temperature, wind, humidity, precipitation, and amount of sunshine significantly influence the air quality in the Basin.

The climate of the Coachella Valley is a continental, desert-type climate, with hot summers, mild winters, and very little annual rainfall. Precipitation is less than six inches annually and occurs mostly in the winter months from active frontal systems and in the late summer months from thunderstorms. Almost all of the annual rainfall comes from the fringes of mid-latitude storms from late November to early April with summers often being completely dry. Temperatures exceed 100 degrees Fahrenheit (°F), on the average, for four months each year, with daily highs near 110 °F during July and August. Summer nights are cooler with minimum temperatures in the mid-70s. During the winter season, daytime highs are quite mild, but the dry air is conducive to nocturnal radiational cooling, with early morning lows around 40 °F.

The Coachella Valley and adjacent areas are exposed to frequent gusty winds. The flat terrain of the valley and strong temperature differentials, created by intense solar heating, produce moderate winds and deep thermal convection. Wind speeds exceeding 31 miles per hour (mph) occur most frequently in April and May. On an annual basis, strong winds (greater than 31 mph) are observed 0.6 percent of the time and

speeds of less than 6.8 mph account for more than one-half of the observed winds. Prevailing winds are from the northwest through southwest, with secondary flows from the southeast. The strongest and most persistent winds typically occur immediately to the east of Banning Pass, which is noted as a wind power generation resource area. Aside from this locale, the wind conditions in the remainder of the Coachella Valley are geographically distinct. Stronger winds tend to occur closer to the foothills. Less frequently, widespread gusty winds occur over all areas of the Valley.

Portions of the SSAB experience surface inversions almost every day of the year. Inversions in the SSAB are attributed to strong surface heating, but are usually broken, allowing pollutants to disperse more easily. Weak surface inversions are caused by cooling of air in contact with the cold surface of the earth at night. In the valleys and low-lying areas, this condition is intensified by the addition of cold air flowing downslope from the hills and pooling on the valley floor. In addition, inversions in the SSAB caused by the presence of the Pacific high-pressure cell can cause the air mass aloft to sink. As the air descends, compressional heating warms the air to a temperature higher than the air below. This subsidence inversion can act as a nearly impenetrable lid to the vertical mixing of pollutants. These inversions can persist for one or more days, causing air stagnation and the buildup of pollutants. Subsidence inversions are common from November through June and are relatively absent from July through October.

Within the project area, there is a natural sand migration process, called "blowsand," that has direct and indirect effects on air quality. Blowsand produces particulate matter (PM10) in two ways: (1) by direct particle erosion and fragmentation as natural PM10, and (2) by secondary effects, as sand deposits on road surfaces.

Also, where water has already receded around the Salton Sea, the surface areas contain a salty mix of sediments that can change from a hardened salt crust to a fluffy soft layer of dust depending upon the season. Exposed sediments could elevate PM_{10} levels throughout the region. Almost 120,000 acres of Salton Sea lakebed could be exposed as inflows to the Sea decrease in future years. Local communities may be affected by 60,000 potentially dust-blowing acres, which will cause PM_{10} levels to rise.

Criteria Pollutants

Both the U.S. Environmental Protection Agency (EPA) and the California Air Resources Board (CARB) have established ambient air quality standards for common pollutants. These ambient air quality standards are levels of contaminants representing safe levels that avoid specific adverse health effects associated with each pollutant. The ambient air quality standards cover what are called "criteria" pollutants because the health and other effects of each pollutant are described in criteria documents. The six criteria pollutants are ozone (O_3) (precursor emissions include NO_X and reactive organic gases (ROG), CO, particulate matter (PM), nitrogen dioxide (NO_2), sulfur dioxide (SO_2), and lead. Areas that meet ambient air quality standards are classified as attainment areas, while areas that do not meet these standards are classified as nonattainment areas. The Riverside County portion of the SSAB is designated as a nonattainment area for the federal O_3 and $PM_{2.5}$ standards and is also a nonattainment area for the state standards for O_3, PM_{10}, and $PM_{2.5}$.

Toxic Air Contaminants (TAC) Trend

In 1984, as a result of public concern for exposure to airborne carcinogens, CARB adopted regulations to reduce the amount of TAC emissions resulting from mobile and area sources, such as cars, trucks, stationary products, and consumer products. According to the Ambient and Emission Trends of Toxic Air Contaminants in California journal article which was prepared for CARB, results show that between 1990-

2012, ambient concentration and emission trends for the seven TACs responsible for most of the known cancer risk associated with airborne exposure in California have declined significantly (between 1990 and 2012). The seven TACs studied include those that are derived from mobile sources: diesel particulate matter (DPM), benzene (C_6H_6), and 1,3-butadiene (C_4H_6); those that are derived from stationary sources: perchloroethylene (C_2Cl_4) and hexavalent chromium (Cr(VI)); and those derived from photochemical reactions of emitted VOCs: formaldehyde (CH_2O) and acetaldehyde (C_2H_4O).[2] The decline in ambient concentration and emission trends of these TACs are a result of various regulations CARB has implemented to address cancer risk.

Sensitive Receptors

Some people are especially sensitive to air pollution and are given special consideration when evaluating air quality impacts from projects. These groups of people include children, the elderly, and individuals with pre-existing respiratory or cardiovascular illness. Structures that house these persons or places where they gather are defined as "sensitive receptors." These structures typically include uses such as residences, hotels, and hospitals where an individual can remain for 24 hours. Consistent with the localized significance threshold (LST) Methodology, the nearest land use where an individual could remain for 24 hours to the project site has been used to determine construction and operational air quality impacts for emissions of PM_{10} and $PM_{2.5}$, since PM_{10} and $PM_{2.5}$ thresholds are based on a 24-hour averaging time. Commercial and industrial facilities are not included in the definition of sensitive receptor because employees and patrons do not typically remain onsite for a full 24 hours but are typically onsite for eight hours or less. The LST Methodology states that "*LSTs based on shorter averaging periods, such as the NO_2 and CO LSTs, could also be applied to receptors such as industrial or commercial facilities since it is reasonable to assume that a worker at these sites could be present for periods of one to eight hours.*"

Receptors in the project study area are described below. All distances are measured from the project site boundary to the outdoor living areas (e.g., backyards) or at the building façade, whichever is closer to the project site. Receptors in the project study area are shown in **Figure III-1**.

- Receptor R1 represents the Wright RWRF, approximately 171 feet west of the project site.
- Receptor R2 represents the existing residence at 17851 Louise Street, approximately 4,022 feet northwest of the project site.
- Receptor R3 represents the existing residence at 64665 Thumb Drive, approximately 4,280 feet north of the project site.
- Receptor R4 represents the existing residence at 17280 Little Morongo Road, approximately 3,857 feet north of the project site.

Applicable Regulatory Requirements

SCAQMD Rules that are currently applicable during construction activity for this project include but are not limited to Rule 403 (Fugitive Dust) and Rule 1113 (Architectural Coatings).

SCAQMD Rule 403

This rule is intended to reduce the amount of particulate matter entrained in the ambient air as a result of anthropogenic (human-made) fugitive dust sources by requiring actions to prevent and reduce fugitive

[2] It should be noted that ambient DPM concentrations are not measured directly. Rather, a surrogate method using the coefficient of haze (COH) and elemental carbon (EC) is used to estimate DPM concentrations.

dust emissions. Rule 403 applies to any activity or human-made condition capable of generating fugitive dust and requires best available control measures to be applied to earth moving and grading activities.

Any operation or activity that might cause the emission of any smoke, fly ash, dust, fumes, vapors, gases, or other forms of air pollution, which can cause damage to human health, vegetation, or other forms of property, or can cause excessive soiling on any other parcel, shall conform to the requirements of the SCAQMD.

SCAQMD Rule 1113

This rule serves to limit the volatile organic compounds (VOC) content of architectural coatings used on projects in the SCAQMD. This rule applies to any person who supplies, sells, offers for sale, or manufactures any architectural coating for use on projects.

Methodology

The California Air Pollution Control Officers Association (CAPCOA) in conjunction with other California air districts, including SCAQMD, released CalEEMod 2022 in May 2022. CalEEMod periodically releases updates, as such the latest version available at the time of this report has been utilized in this analysis. The purpose of this model is to calculate construction-source and operational-source criteria pollutant (VOCs, NO_X, SO_X, CO, PM_{10}, and $PM_{2.5}$) and GHG emissions from direct and indirect sources; and quantify applicable air quality and GHG reductions achieved from mitigation measures. Accordingly, the latest version of CalEEMod has been used for this project to determine construction and operational air quality and GHG emissions.

Air Quality Regional Emissions Thresholds

The SCAQMD has developed regional significance thresholds for criteria pollutants, as summarized at Table III-1. The SCAQMD's CEQA Air Quality Significance Thresholds (March 2023) indicate that any projects in the SCAB with daily emissions that exceed any of the indicated thresholds should be considered as having an individually and cumulatively significant air quality impact.

Table III-1: Maximum Daily Regional Emissions Thresholds

Pollutant	Construction	Operations
NO_X	100 lbs./day	55 lbs./day
VOC	75 lbs./day	55 lbs./day
PM_{10}	150 lbs./day	150 lbs./day
$PM_{2.5}$	55 lbs./day	55 lbs./day
SO_X	150 lbs./day	150 lbs./day
CO	550 lbs./day	550 lbs./day

lbs./day – Pounds Per Day

Localized Emissions Significance Thresholds

The analysis follows the methodology outlined the SCAQMD Final Localized Significance Threshold (LST) Methodology (LST Methodology). According to this methodology, the staff recommendation is to apply the LST mass rate lookup tables exclusively for projects that are less than or equal to five acres. The project specific thresholds used to assess localized air quality emission impacts, along with the rationale for their determination, are detailed in later in this memo

Impact Analysis

a. *Less Than Significant Impact* – The project site is located within the SSAB, which is characterized by relatively poor air quality. The SCAQMD has jurisdiction over an approximately 10,743-square-mile area consisting of the four-county Basin and the Los Angeles County and Riverside County portions of what use to be referred to as the Southeast Desert Air Basin. In these areas, the SCAQMD is principally responsible for air pollution control, and works directly with the Southern California Association of Governments (SCAG), county transportation commissions, local governments, as well as state and federal agencies to reduce emissions from stationary, mobile, and indirect sources to meet state and federal ambient air quality standards.

Currently, certain state and federal air quality standards are exceeded in most parts of the SCAB. In response, the SCAQMD has adopted a series of AQMPs to meet the state and federal ambient air quality standards. AQMPs are updated regularly in order to more effectively reduce emissions, accommodate growth, and to minimize any negative fiscal impacts of air pollution control on the economy.

In December 2022, the SCAQMD released the Final 2022 AQMP (2022 AQMP). The 2022 AQMP continues to evaluate current integrated strategies and control measures to meet the CAAQS, as well as explore new and innovative methods to reach its goals. Some of these approaches include utilizing incentive programs, recognizing existing co-benefit programs from other sectors, and developing a strategy with fair-share reductions at the Federal, State, and local levels. Similar to the 2016 AQMP, the 2022 AQMP incorporates scientific and technological information and planning assumptions, including the 2020-2045 RTP/SCS, a planning document that supports the integration of land use and transportation to help the region meet the federal CAA requirements. The project's consistency with the AQMP will be determined using the 2022 AQMP as discussed below. SCAG adopted the 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy (2020-2045 RTP/SCS), a planning document that supports the integration of land use and transportation to help the region meet the federal metropolitan planning organization (MPO) requirements under the Sustainable communities and Climate Protection Act. The proposed project would be developed in accordance with all applicable rules and regulations contained in those plans. It should be noted that although the 2024-2050 RTP was released after approval of the 2022 AQMP, the 2022 AQMP is reliant in part upon the general plan land use designations.

It should be noted that although SCAG has released an updated 2024-2050 RTP, the 2022 AQMP is based on the 2020-2045 RTP. Criteria for determining consistency with the AQMP are defined in Chapter 12, Section 12.2 and Section 12.3 of the 1993 CEQA Handbook. These indicators are discussed below:.

Consistency Criterion No. 1

Potential to result in an increase in the frequency or severity of existing air quality violations or cause or contribute to new violations or delay the timely attainment of air quality standards or the interim emissions reductions specified in the AQMP.

The violations that under this criterion refer to are the CAAQS and NAAQS. CAAQS and NAAQS violations that would occur if regional or localized significance thresholds were exceeded.

Construction Impacts – Consistency Criterion 1

As evaluated, the project's regional and localized construction-source emissions would not exceed applicable regional significance threshold and LST thresholds. As such, a less than significant impact is expected.

Operational Impacts – Consistency Criterion 1

As evaluated, the project's regional and localized operation-source emissions would not exceed applicable regional significance threshold and LST thresholds. As such, a less than significant impact is expected.

On the basis of the preceding discussion, the project is determined to be consistent with the first criterion.

Consistency Criterion No. 1

Potential to exceed the assumptions in the AQMP based on the years of project build-out phase.

Construction Impacts – Consistency Criterion 2

Peak day emissions generated by construction activities are largely independent of land use assignments, but rather are a function of development scope and maximum area of disturbance. Irrespective of the site's land use designation, development of the site to its maximum potential would likely occur, with disturbance of the entire site occurring during construction activities. As such, when considering that no emissions thresholds will be exceeded, a less than significant impact would result.

Operational Impacts – Consistency Criterion 2

Since the project's proposed land uses are consistent with the Mission Springs Water District and as the project's construction and operational-source air pollutant emissions would not exceed the regional or localized significance thresholds, the project is determined to be consistent with the second criterion.

On the basis of the preceding discussion, the project is determined to be consistent with the second criterion.

AQMP Consistency Conclusion

The project would not result in or cause NAAQS or CAAQS violations. The project proposes to install 146,200 LF of sewer lines within roadways and existing rights-of-way within Areas A, D-3, G, H, I, J-2, K, and along the I-10 corridor to eliminate septic tanks that threaten contamination of potable groundwater supplies by expanding MSWD's wastewater collection system. The project is therefore considered to be consistent with the AQMP. and as a result, the project would result in a less than significant impact under this issue.

b. *Less Than Significant Impact* – Air pollution emissions associated with the proposed project would occur over both a short and long-term time period. Short-term emissions include fugitive dust from construction activities (i.e., site prep, demolition, grading) and exhaust emissions at the project site. Long-term emissions generated by future operation of the proposed sewer pipeline would not differ substantially from that which occurs at present as part of MSWD's wastewater collection operation, as the project is anticipated to transmit wastewater via gravity or in rare circumstances, through

existing pressurized force mains.

Construction Emissions

Construction Activities

Construction activities associated with the project would result in emissions of VOCs, NO_X, SO_X, CO, PM_{10}, and $PM_{2.5}$. Construction-related emissions are expected from the following activities:

- Pipeline Installation
- Septic Tanks Abatements
- Linear, Paving

Construction Related Dust Emissions

Dust is typically a major concern during demolition and grading activities. Because such emissions are not amenable to collection and discharge through a controlled source, they are called "fugitive emissions." Fugitive dust emissions rates vary as a function of many parameters (soil silt, soil moisture, wind speed, area disturbed, number of vehicles, depth of disturbance or excavation, etc.). CalEEMod was utilized to calculate fugitive dust emissions resulting from these phases of activity.

Grading Activities

Grading quantities were conservatively assumed using provided pipeline measurements and as such, it is anticipated that approximately 16,716 CY of export is needed.

On-Road Trips

Construction generates on-road vehicle emissions from vehicle usage for workers and vendors commuting to and from the site. Information on the anticipated number of workers on-site was provided and modeled accordingly as shown on Table III-2. It should be noted that the worker, vendor and hauling trips shown on Table III-2 represents all proposed Areas of construction.

Table III-2: Trips and Vehicle Miles Traveled (VMT)

Construction Activity	Worker Trips Per Day	Vendor Trips Per Day	Hauling Trips Per Day
Pipeline Installation	26	2	11
Septic Tanks Abatements	20	2	2
Linear, Paving	3	0	0

Construction Duration

For purposes of analysis, construction of the project is expected to commence in March 2026 and would last through October 2042. The construction schedule utilized in the analysis represents a "worst-case" analysis scenario should construction occur any time after the respective dates since emission factors for construction decrease as time passes and the analysis year increases due to emission regulations becoming more stringent[3]. The duration of construction activity and associated

[3] As shown in the CalEEMod User's Guide Version 2022, Appendix G "Table G-11. Statewide Average Annual Offroad Equipment Emission Factors" as the analysis year increases, emission factors for the same equipment pieces decrease due to the natural turnover of older equipment being replaced by newer less polluting equipment and new regulatory requirements.

equipment represents a reasonable approximation of the expected construction fleet as required per *CEQA Guidelines*.

Table III-3: Construction Activities

Construction Activity	Start Date	End Date	Days
Area A (60 Months)			
Pipeline Installation	4/1/2026	9/28/2028	652
Septic Tanks Abatements	9/29/2028	4/1/2031	653
Linear, Paving	4/1/2026	9/28/2028	652
Area D-3 (6 Months)			
Pipeline Installation	4/2/2031	7/2/2031	66
Septic Tanks Abatements	7/3/2031	10/2/2031	66
Linear, Paving	4/2/2031	7/2/2031	66
Area G (12 Months)			
Pipeline Installation	10/3/2031	4/2/2032	131
Septic Tanks Abatements	4/5/2032	10/4/2032	131
Linear, Paving	10/3/2031	4/2/2032	131
Area H (22 Months)			
Pipeline Installation	10/5/2032	8/23/2033	231
Septic Tanks Abatements	8/24/2033	7/12/2034	231
Linear, Paving	10/5/2032	8/23/2033	231
Area I (20 Months)			
Pipeline Installation	7/13/2034	5/2/2035	210
Septic Tanks Abatements	5/4/2035	2/21/2036	210
Linear, Paving	7/13/2034	5/2/2035	210
Area J-2 (22 Months)			
Pipeline Installation	2/22/2036	1/9/2037	231
Septic Tanks Abatements	1/12/2037	11/30/2037	231
Linear, Paving	2/22/2036	1/9/2037	231
Area K (12 Months)			
Pipeline Installation	12/1/2037	6/1/2038	131
Septic Tanks Abatements	6/2/2038	12/1/2038	131
Linear, Paving	12/1/2037	6/1/2038	131
Area I-10 Corridor (48 Months)			
Pipeline Installation	12/2/2038	11/6/2040	504
Septic Tanks Abatements	11/7/2040	10/13/2042	504
Linear, Paving	12/2/2038	11/6/2040	504

Construction Equipment

The equipment modeled is based on information provided by MSWD as well as that which is presented in the Project Description. A detailed summary of construction equipment is provided on Table III-4.

Table III-4: Construction Equipment

Construction Activity	Equipment/Info	CalEEMod Equivalent	Quantity
Pipeline Installation	1 Pavement Cutter	Concrete/Industrial Saws	1
	2 Excavator	Excavators	2
	1 Backhoe/Compactor	Tractors/Loaders/Backhoes	1
	1 Loader	Tractors/Loaders/Backhoes	1
	1 Dump/Haul Truck	Modeled in Trips/VMT	1 trip
	1 Paver	Pavers	1
	1 Roller/Vibrator	Roller	1
	1 Water truck	Off-Highway Trucks	1
	2 Worker Utility Trucks	Modeled in Trips/VMT	2 trips
	1 Forman Truck	Modeled in Trips/VMT	1 trip
	Traffic Control Signage and Devices	Signal Boards	1
	10 Dump/delivery trucks (50 miles round trip distance)	Modeled in Trips/VMT	10 trips
	Employees (11 members per team)	Modeled in Trips/VMT	11 trips
	Bore/Drill Rigs[1]	Bore/Drill Rigs	1
Septic Tanks Abatements	1 Excavator	Excavators	1
	1 Backhoe	Tractors/Loaders/Backhoes	1
	1 Septic Truck (Operating 2 hours per day)	Off-Highway Trucks	1
	1 Water truck	Off-Highway Trucks	1
	2 Worker Utility Trucks	Modeled in Trips/VMT	2 trips
	1 Forman Truck	Modeled in Trips/VMT	1 trip
	Traffic Control Signage and Devices	Signal Boards	1
	2 Dump/delivery trucks (50 miles round trip distance)	Modeled in Trips/VMT	2 trips
	Employees (6-8 members per team)	Modeled in Trips/VMT	8 trips
Linear, Paving	Paver	Pavers	1

Regional Construction Emissions Summary

The estimated maximum daily construction emissions are summarized in Table III-5. Under the assumed scenarios, emissions resulting from the project construction at either site would not exceed thresholds established by the SCAQMD for emissions of any criteria pollutant. project construction-source emissions impacts would therefore be less-than-significant. Detailed construction model outputs are presented in Appendix 1 to **Appendix 2.**

Table III-5: Regional Construction Emissions Summary

Year	Emissions (lbs/day)					
	VOC	NO_X	CO	SO_2	PM_{10}	$PM_{2.5}$
Summer						
2026	1.58	13.65	18.56	0.04	1.36	0.66
2027	1.54	13.20	18.39	0.04	1.32	0.63
2028	1.49	12.69	18.20	0.04	1.28	0.59
2029	0.80	4.75	8.08	0.02	0.51	0.22
2030	0.77	4.57	7.97	0.02	0.50	0.22
2031	2.10	16.01	25.52	0.07	1.70	0.74
2032	1.31	11.34	17.53	0.04	1.19	0.51
2033	1.28	11.09	17.40	0.04	1.16	0.49
2034	1.98	14.80	24.90	0.07	1.62	0.66
2035	1.22	10.66	17.17	0.04	1.12	0.45
2036	1.20	10.40	17.09	0.04	1.10	0.43
2037	0.69	3.52	7.45	0.02	0.45	0.17
2038	1.16	10.03	16.99	0.04	1.08	0.40
2039	1.23	10.92	19.33	0.05	1.09	0.40
2040	1.22	10.80	19.28	0.05	1.08	0.40
2041	0.66	3.14	7.33	0.02	0.44	0.16
2042	0.66	3.11	7.31	0.02	0.44	0.16
Winter						
2026	1.56	13.79	17.47	0.04	1.36	0.66
2027	1.51	13.34	17.38	0.04	1.32	0.63
2028	1.46	12.82	17.24	0.04	1.28	0.59
2029	0.78	4.78	7.46	0.02	0.51	0.22
2030	0.76	4.60	7.38	0.02	0.50	0.22
2031	2.82	20.58	31.52	0.09	2.20	0.95
2032	2.59	22.93	33.61	0.09	2.37	1.02
2033	1.26	11.22	16.72	0.04	1.16	0.49
2034	1.96	14.96	23.81	0.07	1.62	0.66
2035	1.21	10.76	16.56	0.04	1.12	0.45
2036	1.88	14.20	23.59	0.07	1.56	0.60
2037	2.33	20.53	32.92	0.09	2.16	0.82
2038	2.39	21.35	35.29	0.09	2.17	0.81
2039	1.21	11.02	18.79	0.05	1.09	0.40
2040	1.20	10.92	18.76	0.05	1.08	0.40
2041	0.66	3.17	6.98	0.02	0.44	0.16
2042	0.65	3.13	6.96	0.02	0.44	0.16
Maximum Daily Emissions	2.82	22.93	35.29	0.09	2.37	1.02
SCAQMD Regional Threshold	75	100	550	150	150	55
Threshold Exceeded?	NO	NO	NO	NO	NO	NO

Regional Operational Emissions

The proposed project primarily involves construction activity. No new trips would be anticipated to be generated by this use. Further, Long-term emissions generated by future operation of the proposed sewer pipeline would not differ substantially from that which occurs at present as part of MSWD's wastewater collection operation, as the project is anticipated to transmit wastewater via gravity or in rare circumstances, through existing pressurized force mains. The proposed project will install approximately 146,200 linear feet (LF) of sewer lines within roadways and existing rights-of-way within Areas A, D-3, G, H, I, J-2, K, and along the I-10 corridor to eliminate septic tanks that threaten contamination of potable groundwater supplies by expanding MSWD's wastewater collection system, which does not include any of the primary sources discussed previously. Therefore, there are no quantifiable daily operational emissions associated with the proposed project and no further analysis is required. Therefore, project operations would not result in a cumulatively considerable net increase of any criteria pollutant and impacts would be less than significant.

Conclusion

The project, as evaluated herein would not exceed the regional or localized air quality significance thresholds. The CAAQS designates the project site as nonattainment for O_3, PM_{10}, and $PM_{2.5}$ while the NAAQS designates the project site as nonattainment for O_3 and $PM_{2.5}$.

The SCAQMD has published a report on how to address cumulative impacts from air pollution: White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution. In this report the SCAQMD clearly states (Page D-3):

"…the SCAQMD uses the same significance thresholds for project specific and cumulative impacts for all environmental topics analyzed in an Environmental Assessment or EIR. The only case where the significance thresholds for project specific and cumulative impacts differ is the Hazard Index (HI) significance threshold for TAC emissions. The project specific (project increment) significance threshold is HI > 1.0 while the cumulative (facility-wide) is HI > 3.0. It should be noted that the HI is only one of three TAC emission significance thresholds considered (when applicable) in a CEQA analysis. The other two are the maximum individual cancer risk (MICR) and the cancer burden, both of which use the same significance thresholds (MICR of 10 in 1 million and cancer burden of 0.5) for project specific and cumulative impacts.

Projects that exceed the project-specific significance thresholds are considered by the SCAQMD to be cumulatively considerable. This is the reason project-specific and cumulative significance thresholds are the same. Conversely, projects that do not exceed the project-specific thresholds are generally not considered to be cumulatively significant."

Therefore, this analysis assumes that individual projects that do not generate operational or construction emissions that exceed the SCAQMD's recommended daily thresholds for project-specific impacts would also not cause a cumulatively considerable increase in emissions for those pollutants for which SSAB is in nonattainment, and, therefore, would not be considered to have a significant, adverse air quality impact. Alternatively, individual project-related construction and operational emissions that exceed SCAQMD thresholds for project-specific impacts would be considered cumulatively considerable.

Construction Impacts: The project-specific evaluation of emissions presented in the preceding analysis demonstrates that proposed project construction-source air pollutant emissions would not result in exceedances of regional thresholds. Therefore, proposed project construction-source emissions would be considered less than significant on a project-specific and cumulative basis.
Operational Impacts: The project-specific evaluation of emissions presented in the preceding analysis demonstrates that proposed project operational-source air pollutant emissions would not result in exceedances of regional thresholds. Therefore, the proposed project operational-source emissions would be considered less than significant on a project-specific and cumulative basis.

c. *Less Than Significant Impact* – The potential impact of project-generated air pollutant emissions at sensitive receptors has also been considered.

Localized Construction Emissions

The SCAQMD has established that impacts to air quality are significant if there is a potential to contribute or cause localized exceedances of the federal and/or state ambient air quality standards (NAAQS/CAAQS). Collectively, these are referred to as Localized Significance Thresholds (LSTs).

The SCAQMD established LSTs in response to the SCAQMD Governing Board's Environmental Justice Initiative I-4. LSTs represent the maximum emissions from a project that would not cause or contribute to an exceedance of the most stringent applicable federal or state ambient air quality standard at the nearest residence or sensitive receptor. The SCAQMD states that lead agencies can use the LSTs as another indicator of significance in its air quality impact analyses.

LSTs were developed in response to environmental justice and health concerns raised by the public regarding exposure of individuals to criteria pollutants in local communities. To address the issue of localized significance, the SCAQMD adopted LSTs that show whether a project would cause or contribute to localized air quality impacts and thereby cause or contribute to potential localized adverse health effects. The analysis makes use of methodology included in the LST Methodology.

Based on SCAQMD's LST Methodology, emissions for concern during construction activities are on-site NOX, CO, PM2.5, and PM10. The LST Methodology clearly states that "off-site mobile emissions from the project should not be included in the emissions compared to LSTs." As such, for purposes of the construction LST analysis, only emissions included in the CalEEMod "on-site" emissions outputs were considered.

The "acres disturbed" for analytical purposes are based on specific equipment type for each subcategory of construction activity and the estimated maximum area a given piece of equipment can pass over in an 8-hour workday (as shown on Table 7). The equipment-specific grading rates are summarized in the SCAQMD's Fact Sheet for Applying CalEEMod to Localized Significance Thresholds and CalEEMod User's Guide Appendix A: Calculation Details for CalEEMod. The disturbed area per day is representative of a piece of equipment making multiple passes over the same land area. In other words, one Rubber Tired Dozer can make multiple passes over the same land area totaling 0.5 acres in a given 8-hour day.

Based on information provided, it was assumed that 1 acre would be disturbed per day for all project Categories. This is conservative as the construction impacts are assessed against a smaller acreage threshold which would represent a more conservative assessment.

Receptors

As previously stated, LSTs represent the maximum emissions from a project that would not cause or contribute to an exceedance of the most stringent applicable NAAQS and CAAQS at the nearest residence or sensitive receptor. Receptor locations are off-site locations where individuals may be exposed to emissions from project activities.

Some people are especially sensitive to air pollution and are given special consideration when evaluating air quality impacts from projects. These groups of people include children, the elderly, and individuals with pre-existing respiratory or cardiovascular illness. Structures that house these persons or places where they gather are defined as "sensitive receptors". These structures typically include uses such as residences, hotels, and hospitals where an individual can remain for 24 hours. Consistent with the LST Methodology, the nearest land use where an individual could remain for 24 hours to the project site has been used to determine construction and operational air quality impacts for emissions of PM10 and PM2.5, since PM10 and PM2.5 thresholds are based on a 24-hour averaging time.

LSTs apply, even for non-sensitive land uses, consistent with LST Methodology and SCAQMD guidance. Per the LST Methodology, commercial and industrial facilities are not included in the definition of sensitive receptor because employees and patrons do not typically remain onsite for a full 24 hours but are typically onsite for 8 hours or less. However, LST Methodology explicitly states that "LSTs based on shorter averaging periods, such as the NO2 and CO LSTs, could also be applied to receptors such as industrial or commercial facilities since it is reasonable to assume that a worker at these sites could be present for periods of one to eight hours." Therefore, any adjacent land use where an individual could remain for 1 or 8-hours, that is located at a closer distance to the project site than the receptor used for PM10 and PM2.5 analysis, must be considered to determine construction and operational LST air impacts for emissions of NO2 and CO since these pollutants have an averaging time of 1 and 8-hours.

Project Related Receptors

The SCAQMD recommends that the nearest sensitive receptor be considered when determining the project's potential to cause an individual and cumulatively significant impact. As a conservative measure it is assumed that the nearest sensitive receptor could potentially be located immediately adjacent to construction activities. It should be noted that the LST Methodology also explicitly states that "It is possible that a project may have receptors closer than 25 meters. Projects with boundaries located closer than 25 meters to the nearest receptor should use the LSTs for receptors located at 25 meters." Consistent with the SCAQMD's LST Methodology, a 25-meter receptor distance is utilized in this analysis and provide for a conservative i.e., "health protective" standard of care.

Localized Thresholds for Construction Activity

Since the total acreage disturbed is less than five acres per day for construction activities, the SCAQMD's screening look-up tables are utilized in determining impacts. It should be noted that since the look-up tables identifies thresholds at only 1 acre, 2 acres, and 5 acres, linear regression has been utilized to determine localized significance thresholds. Consistent with SCAQMD guidance, the thresholds presented in Table III-6 were calculated by interpolating the threshold values for the project's disturbed acreage.

Table III-6: Maximum Daily Localized Construction Thresholds

Construction Activity	Pollutant			
	NO_X	CO	PM_{10}	$PM_{2.5}$
Pipeline Installation	132 lbs/day	878 lbs/day	4 lbs/day	3 lbs/day
Septic Tanks Abatements				
Linear, Paving				

Source: Localized Thresholds presented in this table are based on the SCAQMD Final LST Methodology

Construction Source Localized Emissions

Emissions during the peak construction activity will not exceed the SCAQMD's localized significance thresholds at the maximally exposed receptor location, as illustrated in Table III-7. All other modeled locations in the study area would experience lower concentrations, resulting in a reduced impact. As such, the project's localized impacts during construction activity would be less than significant. Outputs from the model runs for construction LSTs are provided in **Appendix 1**

Table III-7: Construction Localized Significance Summary

Construction Activity	Year	NO_X	CO	PM_{10}	$PM_{2.5}$
Area A					
Pipeline Installation	2026	10.15	13.70	0.36	0.33
	2027	9.83	13.70	0.33	0.30
	2028	9.44	13.68	0.29	0.27
Maximum Daily Emissions		10.15	13.70	0.36	0.33
SCAQMD Regional Thresholds		132	878	4	3
Threshold Exceeded?		NO	NO	NO	NO
Septic Tanks Abatements	2028	4.57	6.62	0.15	0.13
	2029	4.33	6.58	0.13	0.12
	2030	4.17	6.55	0.13	0.12
	2031	3.99	6.54	0.12	0.11
Maximum Daily Emissions		4.57	6.62	0.15	0.13
SCAQMD Regional Thresholds		132	878	4	3
Threshold Exceeded?		NO	NO	NO	NO
Paving	2026	1.52	2.06	0.08	0.07
	2027	1.47	2.06	0.07	0.07
	2028	1.40	2.06	0.06	0.06
Maximum Daily Emissions		1.52	2.06	0.08	0.07
SCAQMD Regional Thresholds		132	878	4	3
Threshold Exceeded?		NO	NO	NO	NO
Area D-3					
Pipeline Installation	2031	8.67	13.57	0.23	0.21
Maximum Daily Emissions		8.67	13.57	0.23	0.21
SCAQMD Regional Thresholds		132	878	4	3
Threshold Exceeded?		NO	NO	NO	NO
Septic Tanks Abatements	2031	3.99	6.54	0.12	0.11
Maximum Daily Emissions		3.99	6.54	0.12	0.11

Construction Activity	Year	NO_X	CO	PM_{10}	$PM_{2.5}$
SCAQMD Regional Thresholds		132	878	4	3
Threshold Exceeded?		NO	NO	NO	NO
Paving	2031	1.25	2.06	0.05	0.05
Maximum Daily Emissions		1.25	2.06	0.05	0.05
SCAQMD Regional Thresholds		132	878	4	3
Threshold Exceeded?		NO	NO	NO	NO
Area G					
Pipeline Installation	2031	8.67	13.57	0.23	0.21
	2032	8.46	13.55	0.21	0.20
Maximum Daily Emissions		8.67	13.57	0.23	0.21
SCAQMD Regional Thresholds		132	878	4	3
Threshold Exceeded?		NO	NO	NO	NO
Septic Tanks Abatements	2032	3.83	6.54	0.11	0.11
Maximum Daily Emissions		3.83	6.54	0.11	0.11
SCAQMD Regional Thresholds		132	878	4	3
Threshold Exceeded?		NO	NO	NO	NO
Paving	2031	1.25	2.06	0.05	0.05
	2032	1.21	2.05	0.05	0.04
Maximum Daily Emissions		1.25	2.06	0.05	0.05
SCAQMD Regional Thresholds		132	878	4	3
Threshold Exceeded?		NO	NO	NO	NO
Area H					
Pipeline Installation	2032	8.46	13.55	0.21	0.20
	2033	8.29	13.52	0.19	0.18
Maximum Daily Emissions		8.46	13.55	0.21	0.20
SCAQMD Regional Thresholds		132	878	4	3
Threshold Exceeded?		NO	NO	NO	NO
Septic Tanks Abatements	2033	3.69	6.53	0.11	0.10
	2034	3.56	6.51	0.10	0.09
Maximum Daily Emissions		3.69	6.53	0.11	0.10
SCAQMD Regional Thresholds		132	878	4	3
Threshold Exceeded?		NO	NO	NO	NO
Paving	2033	1.21	2.05	0.05	0.04
	2034	1.18	2.05	0.04	0.04
Maximum Daily Emissions		1.21	2.05	0.05	0.04
SCAQMD Regional Thresholds		132	878	4	3
Threshold Exceeded?		NO	NO	NO	NO
Area I					
Pipeline Installation	2034	8.12	13.50	0.18	0.17
	2035	7.96	13.47	0.16	0.15
Maximum Daily Emissions		8.12	13.50	0.18	0.17
SCAQMD Regional Thresholds		132	878	4	3

Construction Activity	Year	NO_X	CO	PM_{10}	$PM_{2.5}$
	Threshold Exceeded?	NO	NO	NO	NO
Septic Tanks Abatements	2035	3.45	6.50	0.09	0.09
	2036	3.31	6.49	0.08	0.08
	Maximum Daily Emissions	3.45	6.50	0.09	0.09
	SCAQMD Regional Thresholds	132	878	4	3
	Threshold Exceeded?	NO	NO	NO	NO
Paving	2034	1.16	2.05	0.04	0.04
	2035	1.11	2.05	0.03	0.03
	Maximum Daily Emissions	1.16	2.05	0.04	0.04
	SCAQMD Regional Thresholds	132	878	4	3
	Threshold Exceeded?	NO	NO	NO	NO
Area J-2					
Pipeline Installation	2036	7.77	13.45	0.14	0.13
	2037	7.58	13.44	0.13	0.12
	Maximum Daily Emissions	7.77	13.45	0.14	0.13
	SCAQMD Regional Thresholds	132	878	4	3
	Threshold Exceeded?	NO	NO	NO	NO
Septic Tanks Abatements	2037	3.18	6.48	0.08	0.07
	Maximum Daily Emissions	3.18	6.48	0.08	0.07
	SCAQMD Regional Thresholds	132	878	4	3
	Threshold Exceeded?	NO	NO	NO	NO
Paving	2036	1.08	2.04	0.03	0.03
	2037	1.04	2.04	0.02	0.02
	Maximum Daily Emissions	1.08	2.04	0.03	0.03
	SCAQMD Regional Thresholds	132	878	4	3
	Threshold Exceeded?	NO	NO	NO	NO
Area K					
Pipeline Installation	2037	7.58	13.44	0.13	0.12
	2038	7.43	13.43	0.12	0.11
	Maximum Daily Emissions	7.58	13.44	0.13	0.12
	SCAQMD Regional Thresholds	132	878	4	3
	Threshold Exceeded?	NO	NO	NO	NO
Septic Tanks Abatements	2038	3.06	6.48	0.07	0.07
	Maximum Daily Emissions	3.06	6.48	0.07	0.07
	SCAQMD Regional Thresholds	132	878	4	3
	Threshold Exceeded?	NO	NO	NO	NO
Paving	2037	1.04	2.04	0.02	0.02
	2038	1.02	2.04	0.02	0.02
	Maximum Daily Emissions	1.04	2.04	0.02	0.02
	SCAQMD Regional Thresholds	132	878	4	3
	Threshold Exceeded?	NO	NO	NO	NO
Area I-10 Corridor					

Construction Activity	Year	NO_X	CO	PM_{10}	$PM_{2.5}$
Pipeline Installation	2038	8.49	15.83	0.13	0.12
	2039	8.34	15.81	0.13	0.12
	2040	8.25	15.81	0.12	0.11
Maximum Daily Emissions		8.49	15.83	0.13	0.12
SCAQMD Regional Thresholds		132	878	4	3
Threshold Exceeded?		NO	NO	NO	NO
Septic Tanks Abatements	2040	2.86	6.46	0.07	0.06
	2041	2.81	6.46	0.06	0.06
	2042	2.77	6.46	0.06	0.06
Maximum Daily Emissions		2.86	6.46	0.07	0.06
SCAQMD Regional Thresholds		132	878	4	3
Threshold Exceeded?		NO	NO	NO	NO
Paving	2038	1.02	2.04	0.02	0.02
	2039	1.00	2.04	0.02	0.02
	2040	0.99	2.04	0.02	0.02
Maximum Daily Emissions		1.02	2.04	0.02	0.02
SCAQMD Regional Thresholds		132	878	4	3
Threshold Exceeded?		NO	NO	NO	NO

Localized Operational Emissions

According to SCAQMD localized significance threshold methodology, LSTs would apply to the operational phase of a proposed project if the project includes stationary sources or attracts mobile sources that may spend extended periods queuing and idling at the site (e.g., warehouse or transfer facilities). The project would generate a nominal number of traffic trips in the context of on-going maintenance resulting in a negligible amount of new mobile source emissions. Therefore, the project would not expose sensitive receptors to substantial pollutant concentrations and impacts would be less than significant.

CO "Hot Spot" Analysis

A CO hotspot is defined as a localized concentration of CO exceeding the state one-hour standard of 20 ppm or the eight-hour standard of 9 ppm. At the time the most recent CEQA Air Quality Handbook (1993) was published by SCAQMD, the air basin was designated as non-attainment, requiring projects to perform hotspot analyses to ensure they did not worsen the existing conditions. Over the last two decades, background CO concentrations have been significantly reduced due to regulatory controls on tailpipe emissions, which have culminated in the air basin achieving attainment status for CO.

The 2003 AQMP's findings underscore that CO hotspots are highly unlikely due to the reduced background concentrations and the effectiveness of California's air quality management strategies. The substantial reduction in CO levels from the vehicle fleet and the state's attainment status for CO further diminish the need for detailed microscale hotspot analyses, reinforcing that existing monitoring and regulatory frameworks adequately address potential air quality concerns.

In 2003, the SCAQMD as part of its AQMP development process, prepared modeling to determine

the potential for CO Hotspots at the four busiest intersections in the air basin. As summarized in the 2003 AQMP, even at one of the busiest intersections at that time, only 0.7 ppm of CO is attributable to vehicular traffic and the remaining 7.7 ppm were due to ambient background conditions. The 2003 AQMP's findings underscore that CO hotspots are highly unlikely due to the reduced background concentrations and the effectiveness of California's air quality management strategies. The substantial reduction in CO levels from the vehicle fleet and the state's attainment status for CO further diminish the need for detailed microscale hotspot analyses, reinforcing that existing monitoring and regulatory frameworks adequately address potential air quality concerns.

Conclusion

Based on the discussion above, the proposed project would have a less than significant potential to expose sensitive receptors to substantial pollutant concentrations. Thus, impacts are considered less than significant and no mitigation is required.

d. *Less Than Significant Impact* – SCAQMD Rule 402 Nuisance, prohibits discharge from any source whatsoever of air contaminants or other materials which cause injury, detriment, nuisance or annoyance to any considerable number of persons or to the public or which endanger the comfort, repose, health or safety or any such persons or the public or which cause or have a natural tendency to cause injury or damage to business or property. This rule covers generation of odors. Typical sources of odor complaints include facilities such as sewage treatment plants, landfills, recycling facilities, petroleum refineries, and livestock operations. Under the right meteorological conditions, some odors may still be offensive several miles from the source.

Implementation of this project would have the potential to generate odorous emissions during construction activities. Construction activities are not typically sources of continuous nuisance odors, although construction could result in minor amounts of odorous emissions associated with diesel exhaust or evaporation of VOCs from architectural coatings. These smells are largely due to the presence of sulfur and the creation of hydrocarbons during combustion. As shown in Table III-5, construction would not result in significant emissions of SO_X. Further, the septic tank abatement would consist of rerouting plumbing to the new public sewer system, pumping and cleaning the tank of all liquid waste, sludge, and scum, with the tank residue disposed of at an approved facility. The tank is then filled with sand or slurry and covered up. The tank is left in place. The most significant potential for odor is during the pumping and cleaning of the tank, as the waste and accumulated gases (such as hydrogen sulfide) are exposed. Licensed professionals use specialized vacuum trucks and work efficiently to contain and remove the waste, minimizing the time the odor is present. Furthermore, construction would be temporary, and equipment would not be located in a single location throughout the duration of construction. Odorous hydrocarbons tend to dissipate quickly and would only affect receptors in the immediate vicinity, rather than a substantial number of people at any given time. Therefore, construction activities would not result in other emissions, such as odors, adversely affecting a substantial number of people, and impacts would be less than significant.

Operation of the project would not result in odor impacts because none of the project components include odor-generating components, as the sewer pipelines are located belowground, and are enclosed. Thus, no significant odor emissions would occur. Impacts would be less than significant. Therefore, odors associated with the proposed project construction and operations would be less than significant and no mitigation is required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact or Does Not Apply
IV. BIOLOGICAL RESOURCES: Would the project:				
a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?	☐	☒	☐	☐
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?	☐	☐	☐	☒
c) Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	☐	☒	☐	☐
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?	☐	☒	☐	☐
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	☐	☐	☒	☐
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?	☐	☒	☐	☐

SUBSTANTIATION: The following information is provided based on a Biological Resources Assessment prepared by HDR, Inc. dated June 2025 and is titled "*MSWD Areas A, D-3, G, H, I, J-2, K, and I-10 Sewer Improvements Project Biological Resources Assessment.*" The following information is abstracted from the Biological Resources Assessment (BRA) provided as **Appendix 2.**

Environmental Setting

The project area is situated in the geographically based ecological classification known as the Upper Coachella Valley and Hills of the Sonoran Basin and Range in southern California. The goal of regional ecological classifications is to reduce variability based on spatial covariance in climate, geology, topography, climax vegetation, hydrology, and soils. The Upper Coachella Valley and Hills ecoregion is a transitional desert region with some affinities to the Mojave Basin and Range ecoregion to the north and is surrounded by mountains, except to the south where it descends toward the agricultural lands and the

Salton Sea.

The Desert Hot Springs area is situated in the northwestern end of the Coachella Valley and is bordered on the north and northeast by the Little San Bernardino Mountains, on the east/southeast by the Seven Palms Valley and Edom Hills and on the west by the San Bernardino Mountain foothills. The topography of the project area consists of an urban landscape that slopes downward from northeast to southwest, built over naturally occurring alluvial fans and bajadas. The elevation of the project area ranges from approximately 1,055 feet above mean sea level (amsl) near the southern limits of the project area to 1,520 feet amsl near the northeastern-most limits.

The project area is within a hot desert climate (BWh), characterized by year-round high temperatures, low humidity, and considerable variation in the occurrence, intensity, and distribution of precipitation. Average annual maximum temperatures within the project area peak at 108.5 degrees Fahrenheit (° F) in July and fall to an average annual minimum temperature of 37° F in December and January (Palm Springs Airport temperature data average over 27 years, 1998-2025; NOAA 2025). Average total annual precipitation is approximately 3.73 inches and reaches a peak in January (0.87 inches) (Palm Springs Airport precipitation data average over 27 years, 1998-2025; NOAA 2025). Precipitation is lowest in the month of June (0.00 inches average).

Hydrologically, the eastern portions of the project area are situated within the Miracle Hill Hydrologic Sub-Area (HSA 719.43) and the western portions are within the Mission Creek Hydrologic Sub-Area (HSA 719.42). The Miracle Hill and Mission Creek HSAs comprise 44,525-acre and 73,871-acre drainage areas respectively; both within the larger Whitewater River Watershed (HUC 18100201). The Whitewater River is the major hydrogeomorphic feature within the Whitewater River Watershed and is one of the main tributaries to the Salton Sea. The nearest tributary to the Whitewater River is Morongo Wash, which is southwest-adjacent to Area A at its closest point to the project area.

Soils within the project area are comprised mostly of Carsitas Series soils including Carsitas gravelly sand, 0 to 9 percent slopes, Carsitas gravelly sand, 9 to 30 percent slopes, Carsitas cobbly sand, 2 to 9 percent slopes and Carsitas fine sand, 0 to 5 percent slopes. Carsitas family soils consist of gravelly sand that is comprised of gravelly alluvium derived from granite. This soil type is excessively drained, with a low to very low runoff class and does not have a hydric soil rating.

The City of Desert Hot Springs is a desert community situated north of the City of Palms Springs, along the southern foothills of the Little San Bernardino Mountains, which consists of a mix of urban landscapes and undeveloped desert scrub habitats. The project area is entirely within a disturbed environment, with only minor areas of the project footprint containing native desert species (such as any areas outside of road ROW). The mix of land uses that occur within the project area includes nearly all of the land uses that could be found within the City of Desert Hot Springs; and further, within the City of Palm Springs, the land use is generally Industrial (IND) in nature, with some areas designated for Open Space Desert (OS-D), and a small area designated for Medium Density Residential (MDR). Within Unincorporated Riverside County, the predominant land uses are Medium Density Residential, Commercial Retail, Open Space Recreation, Conservation, and Medium High Density Residential. Within all “lettered” Sub Areas, the predominant land uses are residential in nature. Habitat within the surrounding undeveloped areas consist mostly of Creosote bush scrub (Larrea tridentata) Shrubland Alliance plant communities.

Existing Biological and Physical Conditions

The project would be conducted within an area of about 2,000 acres, when taking into account each of the Subareas that would be connected to MSWD's sewer system (Areas A, D-3, G, H, I, J-2, K, and along the I-10 corridor). The footprint encompasses all the anticipated construction ground disturbance and physical location of new sewer line and properties receiving septic abatement. Existing disturbances within the immediate project area are primarily associated with urban and suburban development and paved roadways. Habitat within the project area is disturbed and highly fragmented. Land cover within project area consists of urban and suburban development, and surrounding land cover consists of a mix of development and undeveloped scrub habitats.

The proposed impact area is completely disturbed, consisting of paved streets (Appendix B of **Appendix 2**, Site Photos and Photo-point Map). The majority of the project area no longer supports undisturbed habitat, and the only species expected to occur within the project area were those adapted to urban-suburban environments. Species observed or otherwise detected in the project area during the survey included:

- greater roadrunner (*Geococcyx californianus*)
- Gambel's quail (*Callipepla gambelii*)
- rock pigeon (*Columba livia*)
- common raven (*Corvus corax*)
- house finch (*Haemorhous mexicanus*)
- northern mockingbird (*Mimus polyglottos*)
- house sparrow (*Passer domesticus*)
- great-tailed grackle (*Quiscalus mexicanus*)
- Eurasian collared-dove (*Streptopelia decaocto*)
- mourning dove (*Zenaida macroura*)
- Costa's hummingbird (*Calypte costae*)
- Anna's hummingbird (*Calypte anna*)
- white-crowned sparrow (*Zonotrichia leucophrys*)
- western fence lizard (*Sceloporus occidentalis*)
- desert cottontail (*Sylvilagus audubonii*)

Special Status Species and Habitats

According to the CNDDB, CNPS, and other relevant literature and databases, 95 sensitive species (57 plant species, 38 animal species) have been documented in the surrounding nine quad search within the surrounding project area (Joshua Tree South, Myoma, East Deception Canyon, Seven Palms Valley, Morongo Valley, Desert Hot Springs, Yucca Valley South, Cathedral City and Palm Springs) USGS 7.5-Minute Series Quadrangles. This list of sensitive species and habitats includes any state and/or federally listed threatened or endangered species, California Fully Protected species, CDFW designated Species of Special Concern (SSC), and otherwise Special Animals. "Special Animals" is a general term that refers to all the taxa the CNDDB is interested in tracking, regardless of their legal or protection status. This list is also referred to as the list of "species at risk" or "special status species." The CDFW considers the taxa on this list to be those of greatest conservation need.

Of the 16 state and/or federally listed (or state candidate) species documented within the Joshua Tree South, Myoma, East Deception Canyon, Seven Palms Valley, Morongo Valley, Desert Hot Springs, Yucca Valley South, Cathedral City and Palm Springs quads, the following six state and/or federally listed (or state candidate) species have been documented in the project vicinity (within approximately 3 miles):

- Triple-ribbed milk-vetch (*Astragalus tricarinatus*; FE)
- Burrowing owl (*Athene cunicularia* [BUOW]; SCE)
- Mojave desert tortoise (*Gopherus agassizii*; FT, CT)
- Coachella Valley fringe-toed lizard (*Uma inornata*; FT, CE)
- Least Bell's vireo (*Vireo bellii pusillus*; FE, CE)

However, the project area consists entirely of residential development and the habitat requirements for these species are absent from the proposed impact area. The habitat within the undeveloped portions of the project area is disturbed and highly fragmented, and the aeolian sand dune habitat that Coachella Valley fringe-toed lizard and Coachella Valley milk-vetch require are absent from the project area and immediate vicinity, as well as the rocky slopes required for triple-ribbed milk-vetch. The project area is not suitable to support Mojave desert tortoise (due to disturbance and habitat fragmentation) or least Bell's vireo (due to absence of riparian habitat) and these species are not expected to occur within or adjacent the project area.

BUOW have been documented adjacent to Areas A, G, I-10 and K. Also, BUOW tolerate some degree of human disturbance. However, there is little suitable BUOW habitat within or adjacent the project area, due to development and habitat fragmentation. Additionally, few fossorial mammal burrows were detected during the reconnaissance survey; BUOW do not create their own burrows and therefore require mammal burrows, and no BUOWs or BUOW sign was detected during the survey. BUOW may occur within the project area due to the proximity of documented occurrences and the species' ability to tolerate human disturbance, but their potential to occur within the project area is low.

Special Status Species

No state and/or federally listed threatened or endangered species, or other sensitive species were observed within the project area during the reconnaissance-level field survey and due to the environmental conditions within and adjacent the proposed project footprint, none are expected to occur with the exception of BUOW, which has a low potential to occur within the project area. An analysis of the likelihood and potential for occurrence of all CNDDB sensitive species is documented (Appendix A of **Appendix 2**, Special-Status Species and Potential to Occur in the Vicinity of the Project Area). The analysis considers species' range as well as documentation within the vicinity of the project area. It also includes the habitat requirements for each species and the potential for their occurrence on site, based on required habitat elements and range relative to the current site conditions.

Special Status Habitats

The project area does not contain any sensitive habitats or USFWS designated Critical Habitat for any federally listed species. However, the nearest Critical Habitat unit is adjacent to Area A. This Critical Habitat unit is part of the Mission Creek Morongo Wash System (Unit 3) for the federally listed endangered Coachella Valley milk-vetch. However, no portion of the project area is within Critical Habitat or sensitive habitat. Therefore, the project will not result in any loss or adverse modification of USFWS designated Critical Habitat, or any other special status habitats.

Jurisdictional Delineation

The project area is within two Hydrologic Sub-Areas: Miracle Hill (HSA 719.43) and Mission Creek (HSA 719.42). The Miracle Hill HSA comprises a 44,525-acre drainage area and Mission Creek comprises a 73,871-acre drainage area; both HSAs are within the larger Whitewater River Watershed (HUC 18100201).

This watershed is primarily within Riverside County, with a small portion in San Bernardino County. The Whitewater River Watershed is bound on the north by the Santa Ana and Southern Mojave Watersheds, on the southeast by the Salton Sea Watershed, on the southwest by the San Felipe Creek and Santa Margarita Watersheds, and on the west by the San Jacinto Watershed. The Whitewater River Watershed encompasses a portion of the San Bernardino and Little San Bernardino Mountains to the north and the San Jacinto Mountains to the south and is approximately 1,500 square miles in area. The Whitewater River is the major hydrogeomorphic feature within the Whitewater River Watershed. The nearest tributary to the Whitewater River is Big Morongo Wash just west of Area A and Little Morongo Creek which travels through Area A as a highly altered swale entering and exiting a golf course.

The swale feature (Photograph 3 and Photograph 10 of **Appendix 2**) includes indicators of hydrology, including sedimentation and flow patterns with a weak ordinary high water mark upstream and downstream of the paved road, along with flow pattern indications on the paved road, the feature has the potential to be a water of the State regulated under the Porter-Cologne Water Quality Control Act. Because the paved road previously impacted the feature, any impacts to the swale across the paved road would result in no loss of functions and would not result in a discharge of fill material. As a result, impacts to the paved road would only require implementation of best management practices to avoid discharges of fill to nearby upstream and downstream portions of the swale.

Waters of the United States

The USACE has authority to regulate the discharge of dredged or fill material in WOTUS under Section 404 of the CWA. The U.S. Environmental Protection Agency (EPA) and USACE 'Waters of the United States,' Conforming Rule is defined generally as territorial seas, interstate waters, tributaries that are relatively permanent, standing or continuously flowing bodies of waters, wetlands adjacent to regulated waters, and intrastate lakes and ponds. The Conforming Rule specifically excludes from the definition of WOTUS:

1) Waste treatment systems, including treatment ponds or lagoons, designed to meet the requirements of the Clean Water Act;
2) Prior converted cropland designated by the Secretary of Agriculture. The exclusion would cease upon a change of use, which means that the area is no longer available for the production of agricultural commodities. Notwithstanding the determination of an area's status as prior converted cropland by any other Federal agency, for the purposes of the Clean Water Act, the final authority regarding Clean Water Act jurisdiction remains with EPA;
3) Ditches (including roadside ditches) excavated wholly in and draining only dry land and that do not carry a relatively permanent flow of water;
4) Artificially irrigated areas that would revert to dry land if the irrigation ceased;
5) Artificial lakes or ponds created by excavating or diking dry land to collect and retain water and which are used exclusively for such purposes as stock watering, irrigation, settling basins, or rice growing;
6) Artificial reflecting or swimming pools or other small ornamental bodies of water created by excavating or diking dry land to retain water for primarily aesthetic reasons;
7) Waterfilled depressions created in dry land incidental to construction activity and pits excavated in dry land for the purpose of obtaining fill, sand, or gravel unless and until the construction or excavation operation is abandoned and the resulting body of water meets the definition of waters of the United States; and
8) Swales and erosional features (e.g., gullies, small washes) characterized by low volume, infrequent, or short duration flow.

Areas meeting all three wetland parameters (i.e. hydrophytic vegetation, hydric soils and wetland hydrology) and are adjacent to other jurisdictional waters would be designated as USACE wetlands. As described in the EPA/USACE *'Memorandum to the Field Between the U.S. Department of the Army, U.S. Army Corps of Engineers and The U.S. Environmental Protection Agency Concerning The Proper Implementation of "Continuous Surface Connection" Under the Definition of "Waters of the United States" Under the Clean Water Act'* (dated March 12, 2025) an adjacent wetland is where there is a 'continuous surface connection to a requisite covered water making it difficult to determine where the water ends and wetland begins.

There are no wetland or non-wetland WOTUS within the project area. Because all aquatic resources have ephemeral flow durations, none are relatively permanent waters and therefore are not federal WOTUS. Therefore, the project will not result in any permanent or temporary impacts to WOTUS.

State/Lake and Streambed

Little Morongo Creek is an ephemeral drainage that originates in the hills north of the project area. The creek runs southwest into a wide concrete-sided channel just north of Area A, and crosses Augusta Avenue into the north side of Area A via a concrete Arizona crossing during high flows. Once within Area A, the creek enters an area of mowed lawn with concrete walls along the margins for a short distance before entering the golf course. Project-related ground disturbance is proposed for Augusta Avenue. A second Arizona crossing on the southern side of Area A conveys high flows out of the project area and across Mission Lakes Boulevard into the existing continuation of Little Morongo Creek; no project-related ground disturbance is proposed for Mission Lakes Boulevard, so the Arizona crossing at the south end of Area A will not be impacted by the project.

The at-grade 'Arizona' stream crossing of Little Morongo Creek at Augusta Avenue, is subject to RWQCB Porter-Cologne Water Quality Control Act, and Section 1602 of the California Fish and Game Code regulated by CDFW.

Coachella Valley Multiple Species Habitat Conservation Plan

The County of Riverside developed the Coachella Valley Multiple Species Habitat Conservation Plan (CVMSHCP) to enhance and maintain biological diversity and ecosystem processes while allowing future economic growth. The CVMSHCP sets Conservation Goals and Objectives to ensure the conservation of the Covered Species and conserved natural communities in the MSHCP Reserve System. In addition to setting Conservation Goals and Objectives for the Species and conserved natural communities, the MSHCP has designated Core Habitat, Other Conserved Habitat, Essential Ecological Processes, and Biological Corridors and Linkages. The CVMSHCP area is divided into Conservation Areas based on a combination of ecological and jurisdictional factors. The CVMSHCP is intended to satisfy the legal requirements to authorize the "take" of species covered under the Plan during otherwise lawful activities, by providing for the conservation of the Covered Species.

The project area is outside any CVMSHCP Conservation Areas, the nearest Conservation Area is along the southern border of Area A and the northern border of Area K, J-2, and I-10 Corridor (Upper Mission Creek Covered/Big Morongo Canyon Conservation Area (**Figures IV-1 through IV-3**). Therefore, no conservation or avoidance measures are expected, and the project as described, would be consistent with the Conservation Goals and Objectives set forth in the CVMSHCP.

Conclusion

Sensitive Biological Resources

No sensitive species were observed within the project area during the field survey and due to the environmental conditions on site, none are expected to occur except BUOW, which has a low potential to occur. The project area is completely disturbed, consisting of paved streets and previously graded, compact, and otherwise disturbed bare ground (see attached Site Photos). Existing disturbances within the immediate project area are primarily associated with residential development and paved roadways, and habitat within the project area is highly fragmented. Due to the environmental conditions on site and the adjacent disturbances, the project area is likely not suitable to support most of the special status plant and wildlife species that have been documented in the project vicinity (within approximately 3 miles), including the federally listed as endangered Coachella Valley milk-vetch, the federally listed as endangered triple-ribbed milk-vetch, the state and federally listed as threatened Mojave desert tortoise, the state listed as endangered and federally listed as threatened Coachella Valley fringe-toed lizard, and the state and federally listed as endangered least Bell's vireo.

The CESA candidate for listing, endangered BUOW, has the potential to occur within the project area due to the proximity of documented occurrences and the species' ability to tolerate some degree of human disturbance; however, the potential for occurrence is low due to habitat fragmentation and scarcity of burrows. No BUOW or BUOW signs were observed during the survey. Provided project activities are restricted to the existing paved or graded roadways, impacts to BUOW can be avoided through implementation of the avoidance and minimization measures provided below for nesting birds.

The project area does not contain any USFWS designated Critical Habitat for any federally listed species, therefore, the project will not result in any loss or adverse modification of Critical Habitat. Additionally, the project will not impact any CVMSHCP Conservation Areas. The Coachella Valley milk-vetch, Mojave desert tortoise, Peninsular bighorn sheep, burrowing owl, least Bell's vireo, southwester willow flycatcher and Coachella Valley fringe-toed lizard are all CVMSHCP Covered Species. The CVMSHCP provides "take" authorization for Covered Species during otherwise lawful activities, by providing for the conservation of the Covered Species. The District and the City of Desert Hot Springs are both signatories to the CVMSHCP. Since the Coachella Valley milk-vetch, triple-ribbed milk-vetch, Mojave desert tortoise, Peninsular bighorn sheep, southwester willow flycatcher, Coachella Valley fringe-toed lizard, least Bell's vireo, and BUOW are all Covered Species under the CVMSHCP and the project will not impact any MSHCP Conservation Areas or USFWS designated Critical Habitat for Coachella Valley milk-vetch, "take" authorization is provided for any potential project-related impacts to these species that may occur.

Nesting Birds

Habitat within the project area includes suitable to support nesting birds, including both vegetation and man-made structures. Most native bird species are protected from unlawful take by the MBTA (Appendix C of **Appendix 2**, Regulatory Framework). In December 2017, the Department of the Interior (DOI) issued a memorandum concluding that the MBTA's prohibitions on take apply "[…] only to affirmative actions that have as their purpose the taking or killing of migratory birds, their nests, or their eggs." Then in April 2018, the USFWS issued a guidance memorandum that further clarified that the take of migratory birds or their active nests (i.e., with eggs or young) that is incidental to, and not the purpose of, an otherwise lawful activity does not constitute a violation of the MBTA .

However, the State of California provides additional protection for native bird species and their nests in the California Fish and Game Code. Bird nesting protections in the California Fish and Game Code include the following (Sections 3503, 3503.5, 3511, 3513 and 3800):

- Section 3503 prohibits the take, possession, or needless destruction of the nest or eggs of any bird.
- Section 3503.5 prohibits the take, possession, or needless destruction of any nests, eggs, or birds in the orders Falconiformes (new world vultures, hawks, eagles, ospreys, and falcons, among others), and Strigiformes (owls).
- Section 3511 prohibits the take or possession of Fully Protected birds.
- Section 3513 prohibits the take or possession of any migratory nongame bird or part thereof, as designated in the MBTA. To avoid violation of the take provisions, it is generally required that project-related disturbance at active nesting territories be reduced or eliminated during the nesting cycle.
- Section 3800 prohibits the take of any non-game bird (i.e., bird that is naturally occurring in California that is not a gamebird, migratory game bird, or fully protected bird).

In general, impacts to all bird species (common and special status) can be avoided by conducting work outside of the nesting season, which is generally February 1st through August 31st. However, if all work cannot be conducted outside of nesting season, the following is recommended:

- To avoid impacts to nesting birds (common and special status) during the nesting season, a qualified avian biologist should conduct pre-construction nesting bird surveys prior to project-related disturbance to suitable nesting areas to identify any active nests. If no active nests are found, no further action would be required. If an active nest is found, the biologist should set appropriate no-work buffers around the nest which would be based upon the nesting species, its sensitivity to disturbance, nesting stage and expected types, intensity and duration of disturbance. The nest(s) and buffer zones should be field checked weekly by a qualified biological monitor. The approved no-work buffer zone should be clearly marked in the field, within which no disturbance activity should commence until the qualified biologist has determined the young birds have successfully fledged and the nest is inactive.

Jurisdictional Waters

In addition to the BRA survey, the project area was assessed for the presence of any state and/or federal jurisdictional waters. The result of the jurisdictional waters assessment is that there are no wetland or non-wetland WOTUS or waters of the State potentially subject to regulation by the USACE under Section 404 of the CWA. However, Little Morongo Creek crosses Augusta Avenue, which is within the project's disturbance footprint, at an Arizona crossing that may fall under the jurisdiction of the RWQCB under Section 401 of the CWA and/or Porter Cologne Water Quality Control Act, or the CDFW under Section 1602 of the California Fish and Game Code. Therefore, the project may impact RWQCB/CDFW jurisdictional waters and state jurisdictional waters permitting may be required.

Coachella Valley Multiple Species Habitat Conservation Plan

The County of Riverside developed the CVMSHCP to enhance and maintain biological diversity and ecosystem processes while allowing future economic growth. The CVMSHCP sets Conservation Goals and Objectives to ensure the conservation of the Covered Species and conserved natural communities in the MSHCP Reserve System. In addition to setting Conservation Goals and Objectives for the Covered Species and conserved natural communities, the MSHCP has designated Core Habitat, Other Conserved Habitat, Essential Ecological Processes, and Biological Corridors and Linkages. The CVMSHCP area is divided into

Conservation Areas based on a combination of ecological and jurisdictional factors. The CVMSHCP is intended to satisfy the legal requirements to authorize the "take" of species covered under the Plan during otherwise lawful activities, by providing for the conservation of the Covered Species.

The project area is outside any CVMSHCP Conservation Areas, the nearest Conservation Area is along the southern border of Area A and the northern border of Area K (Upper Mission Creek/Big Morongo Canyon Conservation Area (Figure 4a). Additionally, the Upper Mission Creek/Big Morongo Canyon Conservation Area boarder the easter side of the 1-10 Area. Although none of the I-10 Area proposes disturbance to occur with a conservation area, the portion of the I-10 Area that is south of I-10 is within the Santa Rosa and San Jacinto Conservation Area.

The project as described, would be consistent with the Conservation Goals and Objectives set forth in the CVMSHCP, and no conservation lands or avoidance measures are expected to be required. However, the project is within the CVMSHCP boundary. Although the project site is not within any Conservation Areas and will not impact any Essential Ecological Processes or Biological Corridors and Linkages, the project site is adjacent (west of) the two Conservation Area. Therefore, the project will need to conform with the Guidelines for projects that are adjacent CVMSHCP Conservation Areas. Section 4.5 of the CVMSHCP identifies guidelines to avoid or minimize indirect effects from development sharing a common boundary with Conservation Areas. These Guidelines are designed to minimize the edge effects, and shall be implemented where applicable:

- **4.5.1 Drainage**: Proposed Development adjacent to or within a Conservation Area shall incorporate plans to ensure that the quantity and quality of runoff discharged to the adjacent Conservation Area is not altered in an adverse way when compared with existing conditions. Stormwater systems shall be designed to prevent the release of toxins, chemicals, petroleum products, exotic plant materials or other elements that might degrade or harm biological resources or ecosystem processes within the adjacent Conservation Area.
- **4.5.2 Toxics**: Land uses proposed adjacent to or within a Conservation Area that use chemicals or generate bioproducts such as manure that are potentially toxic or may adversely affect wildlife and plant species, Habitat, or water quality shall incorporate measures to ensure that application of such chemicals does not result in any discharge to the adjacent Conservation Area.
- **4.5.3 Lighting**: For proposed Development adjacent to or within a Conservation Area, lighting shall be shielded and directed toward the developed area. Landscape shielding or other appropriate methods shall be incorporated in project designs to minimize the effects of lighting adjacent to or within the adjacent Conservation Area in accordance with the guidelines to be included in the Implementation Manual.
- **4.5.4 Noise**: Proposed Development adjacent to or within a Conservation Area that generates noise in excess of 75 dBA Leq hourly shall incorporate setbacks, berms, or walls, as appropriate, to minimize the effects of noise on the adjacent Conservation Area in accordance with the guidelines to be included in the Implementation Manual.
- **4.5.5 Invasives**: Invasive, non-native plant species shall not be incorporated in the landscape for land uses adjacent to or within a Conservation Area. Landscape treatments within or adjacent to a Conservation Area shall incorporate native plant materials to the maximum extent Feasible; recommended native species are listed in Table 4-112. The plants listed in Table 4-113 shall not be used within or adjacent to a Conservation Area. This list may be amended from time to time through a Minor Amendment with Wildlife Agency Concurrence.

Impact Analysis

a. *Less Than Significant With Mitigation Incorporated* – The construction and operation of the proposed infrastructure across the whole of the project footprint (Areas A, D-3, G, H, I, J-2, K, and along the I-10 corridor) required to support the project may result in direct and indirect impacts on special-status wildlife species. The extent and nature of impacts on special-status wildlife species varies depending on the species under consideration, their range, and the type and quality of suitable habitats present.

In general, permanent and temporary direct impacts on special-status wildlife species during construction of the proposed project over the 10 year life of the project could include mortality or injury, and disturbances to suitable habitats for special-status wildlife species, including disruption of wetland and streambeds; water pollution; and reptile, bird, and mammal burrow or nest disturbance. These habitat disturbances could lead to the permanent or temporary abandonment of these habitats by special-status species, a disruption in the life cycle of these species, or direct mortality or injury of individuals of these species.

Temporary and permanent indirect impacts on special-status wildlife species would occur through construction activities associated with the proposed project, with no operational impacts anticipated as the proposed project would be developed belowground, with operational activities involving only limited maintenance trips to the project areas on an as needed basis. in a number of ways depending on the species and type of disturbance. Potential indirect impacts include erosion, soil compaction, increased siltation and sedimentation, fractures in the hardpan soils, alteration of jurisdictional water hydrology, dust aerosolization, host plant stress, destruction of native vegetation, habitat fragmentation, and noise and light pollution. These indirect impacts could lead to the disturbance of special-status wildlife species such as a temporary shift in foraging patterns or territories, refugia abandonment, increased predation, decreased reproductive success, and reduced population viability.

Construction of the whole of the project, because it is occurring primarily within developed areas, should only result in mostly minimal impacts on special-status wildlife species. Only a limited amount of marginal habitat for special-status wildlife species could be impacted by construction activities. The location where most of the proposed project will be installed or constructed occurs within built-up land, or otherwise disturbed locations, as demonstrated in Appendix B of **Appendix 2**, Site Photos. Thus, construction would potentially impact special-status wildlife species that use mostly urban/developed areas. This does not negate the fact that special-status species and habitat supporting special status species exists within MSWD's service area, and may be impacted by implementation of the proposed project, particularly in more sparsely developed areas such as around the I-10 corridor, or along areas that border the CVMSHCP Conservation areas, such as the I-10 corridor, Area A, Area J-2, and Area K.

As previously stated, ongoing operation of the sewer line would be conducted on an as-needed basis, or in the event of an emergency such as a line break. The sewer alignments would be primarily located within paved road rights-of-way, with several areas that would occur within dirt road rights-of-way (ROW) or dirt pathways. Within the I-10 corridor, the project would require installation of pipeline through an area consisting of native desert. It is not anticipated that any operational activities would occur within this area once the pipeline is installed.

Further, during construction or operation near environmentally sensitive areas, such as within the more sparsely developed areas such as around the I-10 corridor, or along areas that border the CVMSHCP Conservation areas, such as the I-10 corridor, Area A, Area J-2, and Area K, wildlife exclusion fencing shall be installed as appropriate to deter wildlife from entering the project area, thereby protecting special status wildlife species from potential project-related impacts.

BIO-1 ***Exclusion barriers (e.g., silt fences) will be installed at the edge of the construction footprint and along the outer perimeter of Environmentally Sensitive Areas and Environmentally Restricted Areas as defined by the project biologist prior to the commencement of construction activities to restrict special-status species from entering the construction area during construction. The design specifications of the exclusion fencing will be determined through consultation with the USFWS and/or CDFW, as appropriate. Clearance surveys will be conducted for special-status species after the exclusion fence is installed in compliance with USFWS and/or CDFW requirements. The project biologist shall determine the frequency in which clearance surveys will be conducted to determine the efficacy of the exclusion fencing.***

Implementation of the following **MMs BIO-2 through BIO-6** will ensure that project construction impacts, both direct, and indirect, to sensitive biological resources and potential special status species and habitats, including the potential effects of invasive species, are reduced to a level of insignificance.

BIO-2 ***All food-related trash items (e.g., wrappers, cans, bottles, food scraps) will be disposed of in closed containers and removed at least once a week from the construction site.***

BIO-3 ***Use of rodenticides and herbicides in the project footprint will be restricted at the direction of the project biologist. This measure is necessary to prevent poisoning of special-status species and the potential reduction or depletion of the prey populations of special–status wildlife species. Where pesticides must be used, they must be used in full accordance with use instructions for the particular chemical and at the direction of the project biologist.***

BIO-4 ***Prior to the commencement of construction, MSWD shall identify staging areas for construction equipment to be utilized during construction that will be located outside sensitive biological resources areas, including habitat for special-status species, jurisdictional waters, and wildlife movement corridors.***

During construction and operation, the contractor shall eliminate all nonessential lighting throughout the project area and avoid or limit the use of artificial light during the hours of dawn and dusk when many wildlife species are most active. The contractor shall ensure that construction lighting for project activities is shielded, cast downward, and does not spill over onto other properties or upward into the night sky. The contractor shall ensure use of LED lighting with a correlated color temperature of 3,000 Kelvins or less, proper disposal of hazardous waste, and recycling of lighting that contains toxic compounds with a qualified recycler.

BIO-5 ***Plastic mono-filament netting (erosion-control matting) or similar material will <u>not</u> be used in erosion control materials to prevent potential harm to wildlife. Materials such as coconut coir matting or tackified hydroseeding compounds will be used as substitutes.***

BIO-6 ***All excavated, steep-sided holes or trenches more than 8 inches deep will be covered at the close of each working day with plywood or similar materials, or a minimum of one escape ramp constructed of earth fill for every 10 feet of trenching will be provided to prevent the entrapment of wildlife. Before such holes or trenches are filled, they will be thoroughly inspected for trapped animals. All culverts or similar enclosed structures with a diameter of 4 inches or greater will be covered, screened, or stored more than 1 foot off the ground to prevent use by wildlife. Stored material will be cleared for common and special-status wildlife species before the pipe is subsequently used or moved.***

As described throughout the introductory sections presented before this impact analysis, based on the areas of potential effect (APE) being located primarily within disturbed road ROWs, the potential to impact special status species during construction is limited. As the surveys for this project were conducted in 2025, it is expected that these survey results would be valid into 2026, but for projects being considered in later years, for each area or project considered under this GQPP Septic to Sewer Update umbrella, a new biological resources assessment, including surveys, shall be conducted to verify findings, and ensure that impacts to special status species are minimized to a level of less than significant. Based on the findings found in the BRA, only one sensitive species was identified with a potential to occur during the reconnaissance-level field survey, burrowing owl (BUOW). As a result, focused BUOW surveys are required to determine if, when, and how the site is used by BUOW, and whether the proposed project may impact this species. Surveys shall be conducted prior to construction of each pipeline alignment area under consideration by MSWD.

Typical habitat for this species includes open, dry annual or perennial grasslands, deserts, and scrublands characterized by low-growing vegetation. Subterranean nester, dependent upon burrowing mammals, most notably, the California ground squirrel. Potential to occur is high in all of the project footprint, particularly as BUOW has been shown to adapt to urban areas and overwinter in drain pipes, abandoned tires and other cover sites, which occur throughout the project area. Further, known sitings of BUOW have occurred adjacent to Little Morongo Road within Mission Creek, which is a conservation area under the CVMSHCP. Thus, in areas such as the I-10 corridor, this species may be more likely to occur, particularly as this area, while developing rapidly, remains more sparsely developed than the other areas of the project occurring in the more northerly portions of Desert Hot Springs.

Permanent and temporary direct impacts on this species during construction include mortality or injury, and disturbances to suitable habitats for special-status wildlife species, including disruption of wetland and streambeds; water pollution; and reptile, bird, and mammal burrow or nest disturbance A significant impact to this species could occur should unauthorized "take" of the species occur or should any of the above permanent or direct impacts to this species occur. As the project would potentially involve construction activities that could occur within the occurrence areas for this species, a significant direct impact could occur should development be unable to avoid take of this species.

Potential indirect impacts include erosion, soil compaction, increased siltation and sedimentation, fractures in the hardpan soils or rock outcroppings, alteration of jurisdictional water hydrology, dust aerosolization, host plant stress, destruction of native vegetation, habitat fragmentation, and noise and light pollution. These indirect impacts could lead to the disturbance of special-status wildlife species such as a temporary shift in foraging patterns or territories, refugia abandonment, increased predation, decreased reproductive success, and reduced population viability, which could result in a significant and unavoidable impact to this species.

Cumulative impacts could occur should cumulative development in the Coachella Valley region result in reduced habitat for this species, thereby resulting in a cumulative reduction in species occurrences across the existing habitat supporting this species. However, it should be noted that occurrences within the Coachella Valley region are greater than in other regions within which this species is found according to research conducted by HDR biologist Lisa Patterson. The project could result in cumulatively considerable impacts to this species as a result of cumulatively considerable contributions to loss of habitat supporting this species, or cumulative take of this species, including increasing the status level of this species a higher status under the California Endangered Species Act (CESA) or Federal Endangered Species Act (FESA), particularly as this species is presently undergoing review by CDFW to determine whether its status should be considered endangered under CESA, and is therefore currently subject to greater protections thereof.

MM BIO-7 would ensure that direct impacts to the special status species are mitigated through avoidance, mitigation or compensation in accordance with regulatory requirements including compliance with CDFW and USFWS through the acquisition of incidental take permits where required. This would avoid or compensate for potential "take" of this species.

BIO-7 ***Pre-Construction Consultations. Each area or project considered under this GQPP Septic to Sewer Update umbrella shall be required to consult with a biologist to determine the need for site-specific biological surveys. Where an area under this GQPP Septic to Sewer Update umbrella has been determined to require a site-specific survey by a biologist, in any case in which the project will affect undeveloped land, site surveys shall be conducted by a biologist. If sensitive species are identified as a result of the survey for which mitigation/compensation must be provided in accordance with regulatory requirements, all work must stop in the area until the following subsequent mitigation actions are taken:***

1. ***MSWD shall provide compensation for sensitive habitat acreage lost by acquiring and protecting in perpetuity (through property or mitigation bank credit acquisition) habitat for the sensitive species at a ratio of not less than 1:1 for habitat lost. The property acquisition shall include the presence of at least one animal or plant per animal or plant lost at the development site to compensate for the loss of individual sensitive species.***
2. ***The final mitigation may differ from the above values based on negotiations between the project proponent and USFWS and CDFW for any incidental take permits for listed species. MSWD shall retain a copy of the incidental take permit as verification that the mitigation of significant biological resource impacts at a project site with sensitive biological resources has been accomplished.***
3. ***Preconstruction botanical surveys for special-status plant communities and special- status plant species will be conducted when needed in areas that were***

not previously surveyed because of access or timing issues or project design changes. Pre-construction surveys for special-status plant communities and special-status plant species will be conducted before the start of ground-disturbing activities during the appropriate blooming period(s) for the species.

MM BIO-8 would ensure that the protective mitigation measures provided herein are successfully implemented for the duration of construction and operation of future individual projects under the proposed GQPP Septic to Sewer Project umbrella.

BIO-8 ***Each area or project considered under this GQPP Septic to Sewer Update umbrella shall be required to conduct focused burrowing owl surveys. The burrowing owl surveys shall be conducted by a qualified biologist in accordance with the Staff Report on Burrowing Owl Mitigation (2012 or most recent version) prior to any construction activities, including vegetation- or ground-disturbing activities. If burrowing owls are detected during the focused surveys, the qualified biologist and MSWD shall begin coordination with CDFW and USFWS immediately, and shall submit the results of focused surveys to CDFW and USFWS as soon results become available and before commencement of any project activities, including any vegetation- or ground-disturbing activities. The information included in the survey results should be consistent with Appendix D of the Staff Report on Burrowing Owl Mitigation, including a detailed map showing locations of all burrowing owls, burrowing owl sign, potential burrows, and occupied burrows (occupied means at least one burrowing owl or its sign has been observed within the last three years; may be indicated by owl sign including feathers, pellets, prey remains, eggshell fragments, or excrement at or near a burrow entrance or perch site); a description of the behavior of burrowing owls during surveys; a description of survey methods; and other items listed in Appendix D of the Staff Report on Burrowing Owl Mitigation under "Survey Reports." Consultation with CDFW and USFWS must be completed prior to commencement of any Project activities, including vegetation- or ground-disturbing activities. If impacts to occupied burrowing owl habitat or burrow(s) or burrowing owl individuals, nests, or eggs cannot be avoided, appropriate NCCP (Fish and Game Code section 2835) or CESA authorization (i.e., Incidental Take Permit under Fish and Game Code section 2081(b)) should be obtained from CDFW prior to commencement of project activities, including vegetation- or ground-disturbing activities.***

As previously discussed, BUOW is a state candidate for listing as an endangered species under CESA. As such, BUOW currently receive the same legal protection afforded to a state listed threatened or endangered species (FGC sections 2074.2 and 2085). If BUOW are determined to be present within the project area prior to project implementation, then any potential project related impacts to BUOW would need to be avoided and coordination with the CDFW may be required. **MM BIO-8** would ensure protection of this species in light of project implementation.

No other sensitive species have been identified as having a potential to exist within or be impacted by the proposed project. Therefore, with the implementation of **MMs BIO-1 through BIO-8,** the proposed project would have a less than significant potential to result in a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California

Department of Fish and Wildlife or U.S. Fish and Wildlife Service.

b. *Less Than Significant Impact* – Implementation of the proposed project has minimal potential to have an adverse effect on any riparian habitat or sensitive natural community identified in local or regional plans, policies, regulations, or by the CDFW or USFWS. As stated in the BRA provided as **Appendix 2** prepared by HDR, the project area does not contain any sensitive habitats, including any USFWS designated Critical Habitat for any federally listed species, and the project will not result in any loss or adverse modification of Critical Habitat. Based on the field survey conducted by HDR and the information contained in **Appendix 2,** no significant impacts to riparian habitat or other sensitive communities are anticipated to occur as a result of implementation of the proposed project.

c. *Less Than Significant With Mitigation Incorporated* – According to the data gathered by HDR in **Appendix 2**, no federally protected wetlands occur within the project footprint. However, the result of the jurisdictional waters assessment is that there are no wetland or non-wetland WOTUS or waters of the State potentially subject to regulation by the USACE under Section 404 of the CWA. However, Little Morongo Creek crosses Augusta Avenue, which is within the project's disturbance footprint, at the "Arizona" crossing that may fall under the jurisdiction of the RWQCB under Section 401 of the CWA and/or Porter Cologne Water Quality Control Act, or the CDFW under Section 1602 of the California Fish and Game Code. Therefore, the project may impact RWQCB/CDFW jurisdictional waters and state jurisdictional waters permitting may be required. Thus, MSWD will likely be required to obtain the following regulatory approvals prior to impacts occurring within the identified jurisdictional areas: Corps Approved Jurisdictional Determination/Waiver; Regional Board CWA Section Report of Waste Discharge; and CDFW Section 1602 Streambed Alteration Agreement (SAA).

BIO-9 ***For the Little Morongo Creek crossing at Augusta Avenue, California Department of Fish and Wildlife (CDFW) shall be notified pursuant to Fish and Game Code section 1602. If CDFW determines that the Project may substantially affect fish and wildlife resources, then CDFW shall issue a Streambed Alternation Agreement (Agreement). The Agreement shall include measures to avoid, minimize, and mitigate impacts to Fish and Game Code section 1602 resources.***

Through an Agreement from CDFW and/or other agencies (Corps, Regional Board [regulatory agencies]) with jurisdiction over impacts to jurisdictional waters, the District shall minimize discharge of fill to the extent feasible, and any discharge of fill not avoidable and all impacts to Fish and Game Code section 1602 resources shall be authorized and mitigated through compensatory mitigation in an Agreement. Mitigation shall be provided by restoration of temporary impacts, enhancement of existing resources, or for permanent impacts as follows: purchasing into CDFW, Corps, or Regional Board authorized mitigation bank; or by selecting a site near the Project site and enhancing it with a native riparian habitat or invasive species removal in accordance with a habitat mitigation plan approved by regulatory agencies; or by acquiring sufficient compensating habitat to meet regulatory agency requirements. Impacts to jurisdictional waters shall be mitigated at a minimum 1:1 ratio, with the ultimate compensatory mitigation ratio being determined through negotiation with regulatory agency, and never at a rate of less than 1:1. The ratio will rise based on the

type of habitat, habitat quality, and presence of sensitive or listed plants or animals in the affected area. This ratio will be determined by the regulatory agency, and must be deemed sufficient by the regulatory agency issuing the permit to compensate for/offset the impacts to the jurisdictional waters and supported species and habitats therein. A Habitat Mitigation and Monitoring Proposal shall be prepared by a biologist or regulatory specialist and reviewed and approved by the appropriate regulatory agencies. These agencies (Corps, Regional Board, CDFW and any other applicable regulatory agency with jurisdiction over the proposed facility improvement) can impose greater mitigation requirements in their permits, but the District will utilize the ratios outlined above as the minimum required to offset or compensate for impacts to jurisdictional waters, riparian areas or other wetlands.

Thus, with implementation of the above mitigation measure, there is a less than significant potential for implementation of this project to impact any federally protected wetlands through direct removal, filling, hydrological interruption, or other means.

d. *Less Than Significant With Mitigation Incorporated* – Habitat linkages provide connections between larger habitat areas that are separated by development. Wildlife corridors are similar to linkages but provide specific opportunities for animals to disperse or migrate between areas. A corridor can be defined as a linear landscape feature of sufficient width to allow animal movement between two comparatively undisturbed habitat fragments. Adequate cover is essential for a corridor to function as a wildlife movement area. It is possible for a habitat corridor to be adequate for one species yet still inadequate for others. Wildlife corridors are features that allow for the dispersal, seasonal migration, breeding, and foraging of a variety of wildlife species. Additionally, open space can provide a buffer against both anthropogenic disturbance and natural fluctuations in resources. There are many stream channels that traverse this area that could serve to enable movement of native resident or migratory fish or wildlife species, or serve established native resident or migratory wildlife movement corridors, or serve as native wildlife nursery sites.

The proposed project could result in construction impacts from the installation of the sewer pipeline at the Little Morongo Road and Augusta Avenue crossing. Construction may cause adverse impacts on migratory species through disturbing or harming nesting birds, which are protected under the MTBA, but these impacts would be subject to the provisions of regulatory permitting (CWA Section 401 and 404 permitting, and FGC Section 1602 LSA Agreement permitting), which would ensure that wildlife linkages and corridors are maintained and impacts thereof are minimized for the temporary duration of construction. **MM BIO-9** would ensure that jurisdictional features are documented in accordance with state and federal guidelines. This would aid in identification of jurisdictional features that may be impacted by discharge of fill or streambed alteration by a future individual projects under the proposed GQPP Septic to Sewer Project umbrella, and thereby may impact wildlife linkages and/or wildlife corridors. The implementation of **MM BIO-9** would ensure that future projects that would discharge of fill or streambed alteration of state or federal water jurisdictional areas are designed to minimize and be protective of the environment both during construction, and once operational for activities that would require ongoing maintenance within jurisdictional features. The impacts to jurisdictional features would thereby be subject to the provisions of regulatory permitting (CWA Section 401 and 404 permitting, and FGC Section 1602 LSA Agreement permitting), which would ensure that wildlife linkages and corridors are maintained for the temporary duration of construction. Thus, with implementation of mitigation, impacts would

be less than significant.

Once installed, the sewer pipelines would be located below ground. The surface will be recompacted and returned to original condition, thereby no operational changes in wildlife movement would be anticipated to occur.

However, the State does protect all migratory and nesting native birds. Further, the project APE and surrounding area consists of habitat that is suitable to support nesting birds. Thus, the project area may include areas that function as nesting locations for native birds. To avoid impacting nesting birds as required by the MBTA and California FGC, the following mitigation measure shall be implemented:

BIO-10 ***Regardless of the time of year, a preconstruction survey shall be performed to verify absence of nesting birds. A qualified biologist shall conduct the pre-activity survey within the project areas (including access routes) and a 500-foot buffer surrounding the project areas, no more than three (3) days prior to the initiation of project activities, including, but not limited to clearing, grubbing, and/or rough grading to prevent impacts to birds and their nests. Pre-construction surveys shall focus on both direct and indirect evidence of nesting, including nest locations and nesting behavior. The qualified biologist shall make every effort to avoid potential nest predation as a result of survey and monitoring efforts. If nesting bird activity is present within the work area or the project's zone of influence (generally 100-300 feet), a no disturbance buffer zone shall be established by the qualified biologist to be marked on the ground around each nest. The buffer shall be a minimum of 500 feet for raptors and 300 feet for songbirds, unless a smaller buffer is specifically determined by a qualified biologist familiar with the nesting phenology of the nesting species. The buffer areas shall be avoided until the nests are no longer occupied and the juvenile birds can survive independently from the nests. Active nest(s) and an established buffer distance(s) shall be monitored daily by the qualified biologist until the qualified biologist has determined the young have fledged or the project has been completed. The qualified biologist has the authority to stop work if nesting pairs exhibit signs of disturbance. If there is no nesting activity, then no further action is needed for this measure. If an active nest is encountered during the project construction, construction shall stop immediately until a qualified biologist can determine (1) the status of the nest, and (2) when work can proceed without risking violation to state or federal laws.***

Thus, with implementation of the above measures, any effects on wildlife movement or the use of wildlife nursery sites can be reduced to a less than significant impact.

e. *Less Than Significant Impact* – Development of the proposed project would have a less than significant potential to conflict with any local policies or ordinances protecting biological resources. Impacts to biological resources have been addressed above under issues IV(a-d). Due to the nature of the proposed project—installing sewer pipeline and septic abatement—no trees or other biological resources that might be protected exist within the project footprint. Therefore, the potential for the project to conflict with local policies or ordinances pertaining to biological resources would be considered less than significant.

f. *Less Than Significant With Mitigation Incorporated* – Please refer to the discussion under Conclusion and issue IV(a), above. The County of Riverside developed the CVMSHCP to enhance and maintain biological diversity and ecosystem processes while allowing future economic growth. The CVMSHCP sets Conservation Goals and Objectives to ensure the conservation of the Covered Species and conserved natural communities in the MSHCP Reserve System. In addition to setting Conservation Goals and Objectives for the Covered Species and conserved natural communities, the MSHCP has designated Core Habitat, Other Conserved Habitat, Essential Ecological Processes, and Biological Corridors and Linkages. The CVMSHCP area is divided into Conservation Areas based on a combination of ecological and jurisdictional factors. The CVMSHCP is intended to satisfy the legal requirements to authorize the "take" of species covered under the Plan during otherwise lawful activities, by providing for the conservation of the Covered Species. The BRA provided as **Appendix 2** concluded that the project area is outside any CVMSHCP Conservation Areas, but that the project will need to conform with the Guidelines for projects that are adjacent CVMSHCP Conservation Areas. Thus, the proposed project shall be required to adhere to the CVMSHCP guidelines through the implementation of **MM BIO-11.**

BIO-11 The project shall be required to comply with the provisions of the Coachella Valley Multi-Species Habitat Conservation Plan requirements for projects adjacent to Conservation Areas, where construction occurs adjacent to Conservation Areas (the nearest Conservation Area is along the southern border of Area A and the northern border of Area K and J-2 (Upper Mission Creek Covered/Big Morongo Canyon Conservation Area) and the eastern border of Area I-10.

1) *Drainage – Proposed Development adjacent to or within a Conservation Area shall incorporate plans to ensure that the quantity and quality of runoff discharged to the adjacent Conservation Area is not altered in an adverse way when compared with existing conditions. Stormwater systems shall be designed to prevent the release of toxins, chemicals, petroleum products, exotic plant materials or other elements that might degrade or harm biological resources or ecosystem processes within the adjacent Conservation Area.*
2) *Toxics – Land uses proposed adjacent to or within a Conservation Area that use chemicals or generate byproducts such as manure that are potentially toxic or may adversely affect wildlife and plant species, Habitat, or water quality shall incorporate measures to ensure that application of such chemicals does not result in any discharge to the adjacent Conservation Area.*
3) *Lighting – For proposed Development adjacent to or within a Conservation Area, lighting shall be shielded and directed toward the developed area. Landscape shielding or other appropriate methods shall be incorporated in project designs to minimize the effects of lighting adjacent to or within the adjacent Conservation Area in accordance with the guidelines to be included in the Implementation Manual.*
4) *Noise – Proposed Development adjacent to or within a Conservation Area that generates noise in excess of 75 dBA Leq hourly shall incorporate setbacks, berms, or walls, as appropriate, to minimize the effects of noise on the adjacent Conservation Area in accordance with the guidelines to be included in the Implementation Manual.*
5) *Invasives – Invasive, non-native plant species shall not be incorporated in the landscape for land uses adjacent to or within a Conservation Area. Landscape*

treatments within or adjacent to a Conservation Area shall incorporate native plant materials to the maximum extent Feasible; recommended native species are listed in Table 4-112 [of the CVMSHCP]. The plants listed in Table 4-113 [of the CVMSHCP] shall not be used within or adjacent to a Conservation Area. This list may be amended from time to time through a Minor Amendment with Wildlife Agency Concurrence.

Therefore, with the above mitigation, the project as described would be consistent with the Conservation Goals and Objectives set forth in the CVMSHCP. Impacts are less than significant with mitigation incorporated.

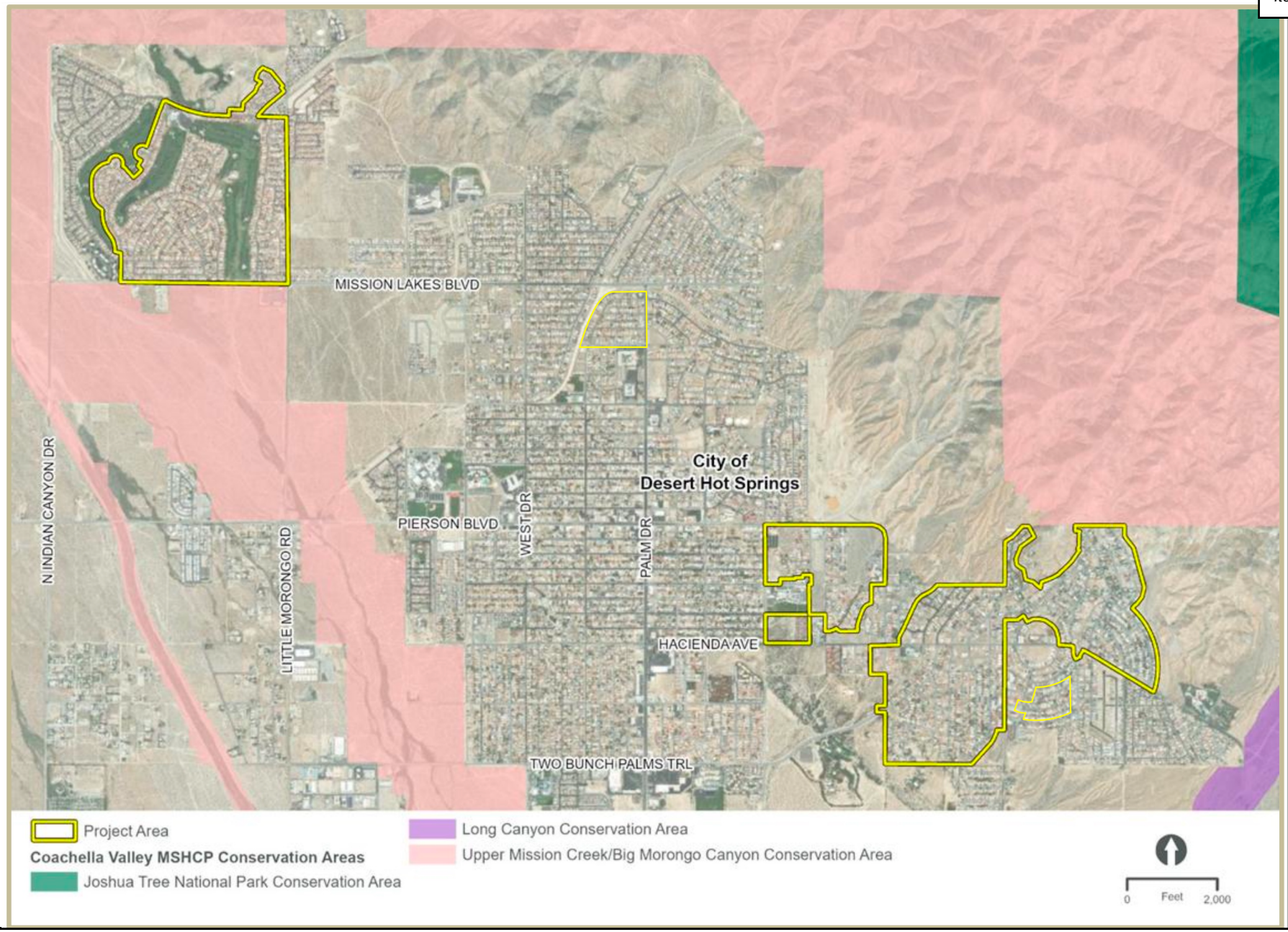

MISSION LAKES BLVD
City of
Desert Hot Springs
PIERSON BLVD
WEST DR
PALM DR
HACIENDA AVE
TWO BUNCH PALMS TRL
N INDIAN CANYON DR
LITTLE MORONGO RD
Project Area
Coachella Valley MSHCP Conservation Areas
Joshua Tree National Park Conservation Area
Long Canyon Conservation Area
Upper Mission Creek/Big Morongo Canyon Conservation Area
0
Feet
2,000

FIGURE IV-1

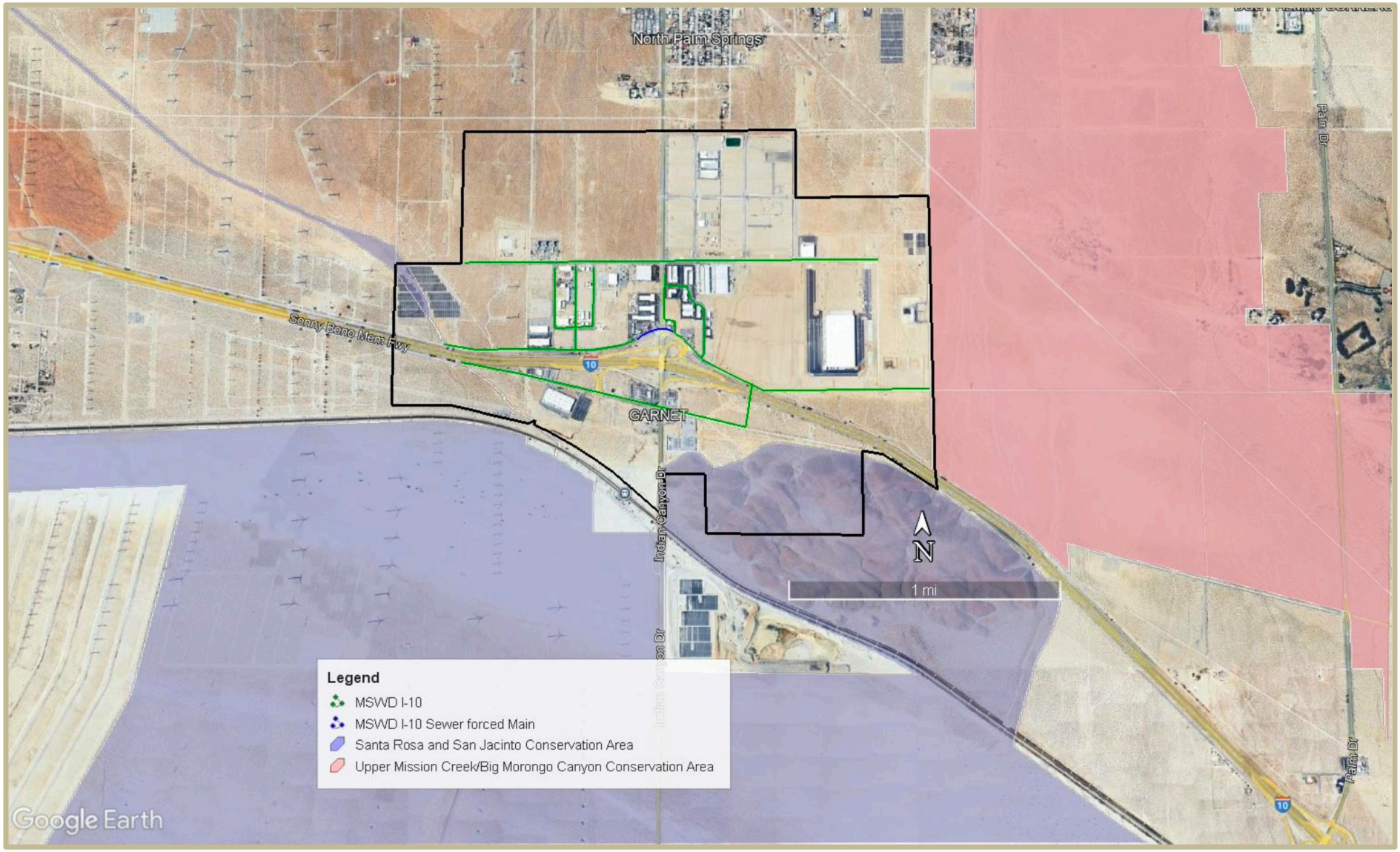


FIGURE IV-2

Tom Dodson & Associates
Environmental Consultants

Coachella Valley Multi-Species Habitat Conservation Plan Areas Near I-10 Corrid

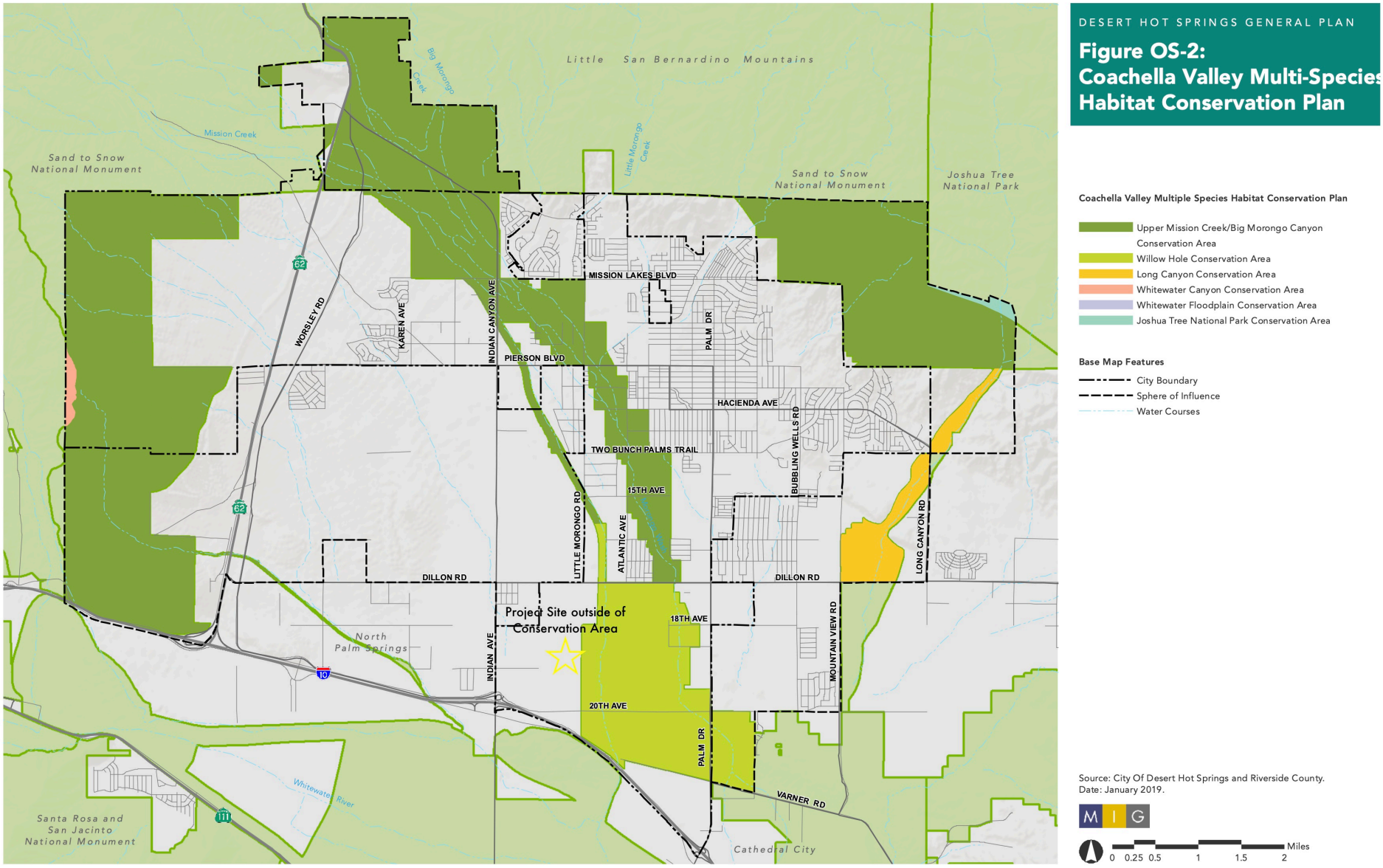

DESERT HOT SPRINGS GENERAL PLAN
Figure OS-2:
Coachella Valley Multi-Species
Habitat Conservation Plan
Little San Bernardino Mountains
Big Morongo Creek
Mission Creek
Little Morongo Creek
Sand to Snow National Monument
Sand to Snow National Monument
Joshua Tree National Park
MISSION LAKES BLVD
WORSLEY RD
KAREN AVE
INDIAN CANYON AVE
PIERSON BLVD
PALM DR
HACIENDA AVE
TWO BUNCH PALMS TRAIL
BUBBLING WELLS RD
15TH AVE
LITTLE MORONGO RD
ATLANTIC AVE
LONG CANYON RD
DILLON RD
DILLON RD
Project Site outside of Conservation Area
18TH AVE
MOUNTAIN VIEW RD
INDIAN AVE
North Palm Springs
20TH AVE
PALM DR
VARNER RD
Whitewater River
Santa Rosa and San Jacinto National Monument
Cathedral City
Coachella Valley Multiple Species Habitat Conservation Plan
Upper Mission Creek/Big Morongo Canyon Conservation Area
Willow Hole Conservation Area
Long Canyon Conservation Area
Whitewater Canyon Conservation Area
Whitewater Floodplain Conservation Area
Joshua Tree National Park Conservation Area
Base Map Features
City Boundary
Sphere of Influence
Water Courses
Source: City Of Desert Hot Springs and Riverside County.
Date: January 2019.
MIG
0 0.25 0.5 1 1.5 2 Miles

FIGURE IV-3

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact or Does Not Apply
V. CULTURAL RESOURCES: Would the project:				
a) Cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5?	☐	☒	☐	☐
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?	☐	☒	☐	☐
c) Disturb any human remains, including those interred outside of formal cemeteries?	☐	☒	☐	☐

SUBSTANTIATION: A cultural resources report has been prepared to evaluate the potential for cultural resources to occur within the project area of potential effect entitled "*Identification And Evaluation Of Historic Properties Groundwater Quality Protection Program Septic-To-Sewer Update Project*" prepared by CRM TECH dated November 1, 2025 (**Appendix 3**). The following information is abstracted from this report. It provides an overview and findings regarding the cultural resources found within the project area.

Background

Between May and October 2025, at the request of Tom Dodson and Associates, CRM TECH performed a cultural resources assessment on the Area of Potential Effects (APE) for the proposed Mission Springs Water District (MSWD) Septic to Sewer Project in and near the City of Desert Hot Springs, Riverside County, California. This study is a part of the environmental review process for the project, as required by the lead public agency, namely the MSWD, pursuant to the California Environmental Quality Act (CEQA). The project may involve federal funding administered by the U.S. Army Corps of Engineers (USACE) and thereby may qualify as a federal "undertaking," which would mandate compliance with Section 106 of the National Historic Preservation Act (NHPA) as well.

Area of Potential Effects (APE)

The APE is delineated to encompass the maximum extent of ground disturbance required for the implementation of the undertaking. The horizontal extent of the APE includes the proposed 26.9 linear miles of sewer main pipeline alignments within roadways and existing rights-of-way as well as the sites of the 2,500 service laterals and the septic tanks. In general, the portion of the APE for future laterals and septic tank abatement coincides with the portions of the individual parcels lying immediately adjacent to the sewer main pipeline alignments, between the public rights-of-way and the buildings.

The vertical extent of the APE, representing the maximum depth of excavation required for pipeline installation, is estimated to range from seven to ten feet below surface for the sewer mains and from four to six feet for the service laterals but may reach up to 15 feet in some areas due to the natural terrain or to cross under existing drainage channels. The APE is located in Section 23 of T2S R4E, Sections 30, 32, and 33 of T2S R5E, and Sections 14, 15, 22, and 23 of T3S R4E, San Bernardino Baseline and Meridian, as depicted in the United States Geological Survey Desert Hot Springs and Seven Palms Valley, California, 7.5' quadrangles.

Steps Taken to Identify Historic Properties

CRM TECH conducted a cultural resources records search, historical and geoarchaeological background research, Native American outreach, and a systematic field survey of the APE. The results of these research procedures indicate that four cultural resources of historical origin were previously recorded within, partially within, or in very close proximity to the APE, all of them in the vicinity of I-10 Corridor. Among these, Site 33-028591, Isolate 33-028593, and Site 33-028595 consisted of refuse items from the 1930s-1970s era, while Site 33-008410 represented the former alignment of the main construction access road for the 1930s Colorado River Aqueduct project, which coincided partially with the segments of Indian Canyon Drive in the APE.

All four of these known cultural resources were previously determined not to be eligible for the National Register of Historic Places or the California Register of Historical Resources. Furthermore, Site 33-028591, Isolate 33-028593, and Site 33-028595 could not be located during the field survey and were deemed to be no longer extant. The segments of Indian Canyon Drive in the APE are essentially modern in appearance today due to upgrading and maintenance during recent decades and retain little historic integrity to relate to the road's period of origin. Therefore, the present study concurs with the previous evaluation of Site 33-008410 and concludes that it does not meet the definition of a "historic property" under Section 106 or a "historical resource" under CEQA.

Most of the existing roadways in the APE are now more than 50 years of age. However, as with Indian Canyon Drive, the current characteristics of these roadways are a direct result of upgrading and maintenance during the modern era. As working components of the modern transportation infrastructure, they are not considered potential "historic properties" or "historical resources." Adjacent to the APE, numerous buildings along the project alinements also date to the historic period. Since the installation of underground pipelines and associated laterals and the abatement of existing septic tanks have little potential to compromise their historic integrity in terms of location, design, setting, materials, workmanship, feeling, and association, the buildings adjacent to the project alignments were not included in the APE and do not require any further consideration.

In conclusion, the proposed undertaking would not cause an "adverse effect" or a "substantial adverse change" to any known "historic properties" or "historical resources." While most of the APE appears relatively low in sensitivity for subsurface archaeological deposits, two areas of moderate to high sensitivity were identified from the sources consulted. The results of past studies nearby indicate that the eastern extent of a prehistoric Native American village site around the Two Bunch Palms oasis, designated Site 33-001246, lies relatively close to the southwestern portion of Area H, namely along the southernmost segment of Miracle Hill Road and the westernmost segments of Loma Vista Road and Monterey Road. The southern portions of Areas H and I, around the intersection of Hidalgo Street/Yerxa Road and Loma Vista Road, are known to be the general location of well-known early settler Cabot Yerxa's homestead. Consequently, these portions of the APE are considered to be higher in potential for encountering buried archaeological deposits of prehistoric or early historic origin during construction activities.

Since the APE lies predominantly within the paved roadbeds of existing public roads or on adjacent private properties, standard subsurface exploration procedures known as Extended Phase I do not appear to be a feasible approach to determine the presence or absence of subsurface cultural remains in the vertical APE. In order to identify such remains in a timely manner and, if necessary, protect them from project impact, CRM TECH recommends that excavations and other ground-disturbing operations that will reach beyond the roadbed fill (generally speaking the uppermost five to six feet of surface and near-surface soils)

in the archaeologically sensitive areas be conducted under the direction and close observation of a qualified archaeologist. If any potentially significant cultural remains are encountered, the mechanical excavations should be halted or diverted while an archaeological team recovers the materials through procedures consistent to a Phase II archaeological testing program.

Under this condition, the proposed undertaking may be cleared to proceed in compliance with Section 106 and CEQA provisions on cultural resources. No further cultural resources investigation is recommended for the rest of the APE unless project plans undergo such changes as to include areas not covered by this study. However, if buried cultural materials are encountered during earth-moving operations anywhere within the APE, all work in the immediate vicinity of the discovery should be halted or diverted until a qualified archaeologist can evaluate the nature and significance of the finds.

Impact Analysis

a&b. *Less Than Significant With Mitigation Incorporated* – CEQA establishes that "a project that may cause a substantial adverse change in the significance of a historical resource is a project that may have a significant effect on the environment" (PRC §21084.1). "Substantial adverse change," according to PRC §5020.1(q), "means demolition, destruction, relocation, or alteration such that the significance of a historical resource would be impaired."

Records Search Results

Within the one-mile scope of the records search, SCIC records identify approximately 150 additional studies and 127 previously recorded historical/archaeological resources (see Table V-1). Four of these known cultural resources, designated Sites 33-008410, 33-028591, and 33-0028595, and Isolate 33-28593, were found within, partially within, or in very close proximity to the APE. All four of these localities dated to the historic period, and all of them were located in the vicinity of I-10 Corridor. Sites 33-028591 and 33-0028595 were refuse scatters made up of various types of metal cans from the 1930-1975 era, while Isolate 33-28593 consisted of a single crushed matchstick-filler vent-hole can that dated to the same period. At the time of their recordation in 2017, these three localities were all determined not to be eligible for listing in the National Register of Historic Places or the California Register of Historical Resources.

Site 33-008410 represented the former main access road built by the Metropolitan Water District of Southern California in the early 1930s for the construction of the Colorado River Aqueduct. After the completion of the project in 1938, the road was transferred to the County of Riverside and dedicated as a public highway named Dillon Highway, after County Supervisor Robert Emmet Dillon (Smallwood 2015:3; see App. B). In the Desert Hot Springs area, the original alignment of the 1933 access road has evolved into present-day Dillon Road and the segment of Indian Canyon Drive between Dillon Road and Garnet Avenue. Despite its early associations with one of the most important water supply projects in California history, Dillon Road was previously determined not to meet any of the criteria for the National Register of Historic Places or the California Register of Historical Resources or to retain sufficient historic integrity in relation to its period of origin.

None of the other 123 previously identified cultural resources within the records search scope was found in the immediate vicinity of the APE. However, the easternmost portion of Site 33-001246 was located within a few hundred feet of the APE along Miracle Hill Road. First recorded in 1977, Site 33-001246 was subject to archaeological testing and a data recovery program in 2006. Excavations

into the various mesquite dunes within the site boundary resulted in the discovery of deeply buried and stratified archaeological deposits associated with Late Archaic and Late Prehistoric cultures. These deposits contain dense clusters of artifacts and features of diverse types, suggesting intensive residential occupation and extensive use over the past 2,500 years.

Late Prehistoric living surfaces with multiple thermal features and distinct work areas have been discovered in the easternmost portion of the site, approximately 900 feet west of the APE. This includes the remains of a ramada floor, a processing area with groundstone but few flaked-stone artifacts, and a flaked-stone tool production area surrounding a thermal feature and containing a multitude of Cottonwood Triangular and Desert Side-Notched projectile points. Deposits in this area of the site ranged from the surface to depths of more than one meter.

The deepest archaeological deposits encountered during the excavations at Site 33-001246 were in the western portion of the site and extended to a depth of approximately three meters below the surface of a large mesquite dune. It was here that the region's only known Archaic pit house feature was discovered in association with a concentration of stone beads, groundstone and flaked-stone artifacts, a bone awl, and several thermal features, including a large rock-lined oven or roasting pit. Based on the quantity, quality, and diversity of cultural remains it contains, Site 33-001246, dubbed the Two Bunch Palms village site, is considered to be one the most significant and unique prehistoric archaeological resources in the western Colorado Desert.

Table V-1: Previously Recorded Cultural Resources within the Scope of the Records Search

Resource Number	Date Recorded	Description
33-001118/CA-RIV-01118	1976, 2004	Prehistoric ceramic sherd scatter
33-001119/CA-RIV-01119	1972-2004	Prehistoric habitation site
33-001246/CA-RIV-01246	1977, 2004	Prehistoric site
33-001294/CA-RIV-01294H	1972	Historic-period residential building made of local cobbles and mortar
33-001808/CA-RIV-01808	1979, 2004	Prehistoric ceramic scatter (destroyed by residential development)
33-003441/CA-RIV-03441H	1988	Historic-period structural foundations and refuse
33-006837	1983	Gurney Ranch, 1938
33-006840	1983	B Bar H Ranch, 1936
33-006842	1980, 1983	Cabot's Indian Pueblo, ca. 1941; California Point of Historical Interest
33-006843	1983	Lost Heads Ranch, 1950
33-006844	1983	Coffee's Pool, 1948
33-006845	1983	Historic-period Desert Hot Springs Library & Museum
33-006847	1983	Two residential buildings, 1932
33-006848	1983	Residential building, circa pre-1946
33-006849	1983	Cliff's Shop, 1951
33-006850	1983	Desert Hot Springs School House, ca. 1935
33-006887	1983	Residential building, 1946
33-006888	1983	Residential building, ca. 1935
33-006889	1983	Residential building, 1951
33-006891	1983	Residential building, 1946
33-006892	1983	Residential building, 1946
33-006893	1983	Residential building, 1941
33-006894	1983	Residential building, ca. 1940

Resource Number	Date Recorded	Description
33-006895	1983	Residential building, 1946
33-006896	1983	Residential building, 1946
33-006897	1983	Residential building, 1945
33-006898	1983	Los Chimeneas, 1949
33-006899	1983	Residential building, 1946
33-006900	1983	Residential building, 1950
33-006901	1983	Residential building, 1946
33-006902	1983	Residential building, 1945
33-006903	1983	Residential building, 1949
33-006904	1983	Residential building, 1950
33-006905	1983	Residential building, 1943
33-006906	1983	Residential building, 1946
33-006907	1983	Stone Crest, 1949
33-006908	1983	Residential building, 1942
33-008403	1998	Two-lane asphalt road, ca. 1940s
33-008408	1998-2015	Varner Road, ca. 1915
33-008409	1998	Palm Drive, ca. 1930s and 1967
33-008410/CA-RIV-13015H*	1998, 2015	Dillon Road, 1933
33-009498/CA-RIV-06381H	1999-2017	Southern Pacific Railroad, ca. 1870
33-011265	2000-2013	California River Aqueduct, ca. 1930s
33-012629	1992	Isolate: prehistoric ceramic sherd
33-012922	1979	Isolate: historic-period nail
33-013425	1979	Prehistoric ceramic sherd and two portable metates
33-013426	1979	Historic-period glass fragments
33-013435	1979	Prehistoric ceramic sherds and two metates
33-013605/CA-RIV-7491H	2004	Scott Farris Date Farm, 1947
33-013898/CA-RIV-07606H	2004, 2006	Historic-period concrete foundation and four associated artifact concentrations
33-014810	2004	Residential building, 1948
33-014849	2005	Isolate: prehistoric ceramic scatter
33-014863	1979	Duplicate of 33-013426
33-015035	1998-2019	Chino-Hayfield 200kV Transmission Line
33-015145/CA-RIV-08054	2006	Possible prehistoric stone circle
33-015281	2006	Isolate: prehistoric ceramic scatter
33-015282	2006	Isolate: prehistoric lithic flake
33-015298	2005	Isolate: historic-period bottle neck
33-016938/CA-RIV-08105	2008	Prehistoric artifact scatter
33-017841/CA-RIV-09232H	2009	Historic-period refuse scatter
33-017842/CA-RIV-09233H	2009, 2015	Historic-period foundation, collapsed walls, and refuse scatter
33-018094	2010	Isolate: prehistoric lithic flake
33-018166	2010	Isolate: prehistoric ceramic sherds
33-018169	2010	Isolate: historic-period can and glass bottle
33-018665	2010	Historic-period porcelain insulators
33-018666	2010	Ceramic doll head, ca. 1950s
33-019935/CA-RIV-10127	2011	Prehistoric ceramic scatter
33-022389	2012	Devers-Vista #1 220kV Transmission Line (partially encompassed by 33-015035)
33-024265	2015	Isolate: prehistoric ceramic sherds
33-024266	2015	Isolate: prehistoric ceramic sherds

Resource Number	Date Recorded	Description
33-024705/CA-RIV-12230H	2015	Historic-period road
33-024712/CA-RIV-12236H	2015	Historic-period road
33-024713/CA-RIV-12237H	2015	Historic-period road
33-024714	2015	Historic-period road
33-024716/CA-RIV-12239H	2015	Historic-period electrical substation
33-024717	2015	Historic-period cans and bottle fragment
33-026494	2011	Prehistoric ceramic sherds
33-026706	2016	Isolate: prehistoric lithic flake
33-026872	2016	Isolate: historic-period can
33-026873	2016	Isolate: historic-period can
33-026874	2016	Isolate: historic-period can
33-026875	2016	Isolate: historic-period cans
33-028014	2017	Prehistoric obsidian debitage
33-028015	2017	Isolate: historic-period cans
33-028053	2017	Historic-period segment of 20th Avenue
33-028585	2017	Isolate: historic-period can
33-028586	2017	Isolate: historic-period can
33-028587	2017	Isolate: historic-period can
33-028591/CA-RIV-12879H*	2017	Historic-period refuse scatter
33-028592/CA-RIV-12880H	2017	Historic-period refuse scatter
33-028593*	2017	Isolate: historic-period can
33-028594	2017	Isolate: historic-period can
33-028595/CA-RIV-12881H*	2017	Historic-period refuse scatter
33-028596	2017	Isolate: historic-period can
33-028597	2017	Isolate: historic-period cans
33-028598/CA-RIV-12882H	2017	Historic-period refuse scatter
33-028599	2017	Isolate: historic-period glass bottle isolate
33-028600	2017	Isolate: historic-period can and bottle fragment
33-028601	2017	Isolate: historic-period can
33-028951	2018	Isolate: historic-period can
33-028952	2018	Historic-period metal automobile part
33-028969	2019	Prehistoric percussing tool
33-028970	2019	Isolate: prehistoric lithic flake
33-028971	2019	Isolate: prehistoric lithic flake
33-029139/CA-RIV-13022H	2022	Historic-period refuse scatter
33-029140/CA-RIV-13023H	2022	Historic-period power transmission line
33-029326/CA-RIV-13110H	2015, 2018	Historic-period refuse scatter
33-029328/CA-RIV-13112H	2015	Isolate: historic-period can
33-029329/CA-RIV-13113H	2015	Historic-period glass insulator fragment
33-029330/CA-RIV-13114H	2015	Isolate: historic-period cans
33-029331	2015	Isolate: historic-period glass bottle stopper
33-029332/CA-RIV-13116H	2015	Isolate: historic-period can
33-029333/CA-RIV-13117H	2015	Isolate: historic-period can
33-029334/CA-RIV-13118H	2015	Isolate: historic-period can
33-029335/CA-RIV-13119H	2015	Isolate: historic-period can
33-029336/CA-RIV-13120H	2015	Isolate: historic-period can
33-029337/CA-RIV-13121H	2015	Isolate: historic-period can
33-029338/CA-RIV-13122H	2015	Isolate: historic-period can
33-029339/CA-RIV-13123H	2015	Isolate: historic-period can
33-029340/CA-RIV-13124H	2015	Isolate: historic-period can

Resource Number	Date Recorded	Description
33-029417	2023	Isolate: historic-period can
33-029418	2023	Isolate: prehistoric ceramic sherd
33-029419/CA-RIV-13172H	2023	Historic-period concrete foundation and two posts
33-029420/CA-RIV-13173H	2023	Historic-period road
33-029421/CA-RIV-13174H	2023	Historic-period road
33-029740/CA-RIV-13257H	2015, 2018	Historic-period refuse scatter
33-029778/CA-RIV-13268H	2023	Historic-period refuse scatter

Sacred Land Files Results

As part of the written request to the State of California NAHC for a records search in the commission's SLF, five of the tribes have responded to the inquiry in writing, and three others have provided their comments by telephone. Among them, the Augustine Band, the Quechan Indian Tribe, and the Santa Rosa Band expressed no concerns over this undertaking. The Quechan Indian Tribe deferred to other tribes in closer proximity to the APE, while the Soboba Band and the Torres Martinez band deferred specifically to the Agua Caliente Band. The Twenty-nine Palms Band stated that they were unaware of any cultural resources in the APE, and the Yuhaaviatam found the area to be low in sensitivity for cultural resources. Both tribes, however, consider the project location to be a part of their traditional territory. The Agua Caliente Band also consider the APE a part of their traditional use area. In addition, the Agua Caliente Band reported that there were several tribal cultural resources adjacent to the APE. Therefore, the tribe requested to review all cultural resources documentation generated for this undertaking, including the records search results.

The Twenty-Nine Palms Band requested that MSWD protect tribal cultural and cultural resources. Based on the fact that a Native American monitor will be present during construction, and that the Agua Calinte Band of Mission Indians put forth protocol for treatment of such resources, MSWD believes that this request by the Twenty-Nine Palms Band has been met. Note that this tribe has not requested formal consultation under AB 52. The YSMN indicated that it wished to engage in in government-to-government consultation pursuant to AB 52. However, the Tribe has not sent the initial formal consultation request pursuant to AB 52 to MSWD that would require consultation. Regardless, on January 9th, 2026, Mr. Eric Weck of MSWD reached out to the contact at YSMN that was contacted by CRM TECH (refer to **Appendix 3**) to ascertain whether the Tribe wished to provide MSWD with an initial consultation request from the Tribe pursuant to PRC 21080.3.1(b). To date, MSWD has not received a response back, and therefore considers that no formal AB 52 consultation with the YSMN is required. However, as with the Twenty-Nine Palms Band, a Native American monitor will be present during construction, and MSWD will be required to implement mitigation that the Agua Caliente Band of Mission Indians put forth addressing protocol for treatment of tribal cultural resources.

Geoarchaeological Results

As a part of the research procedures, CRM TECH archaeologist Elizabeth Beckner pursued geoarchaeological analysis to assess the APE's potential for the deposition and preservation of subsurface cultural deposits from the prehistoric period, which cannot be detected through a standard surface archaeological survey. Sources consulted for this purpose included primarily topographic and geologic maps and reports pertaining to the project vicinity. Findings from these sources were used to develop a geomorphologic history of the APE and address geoarchaeological sensitivity of the vertical APE.

Most of the soils in Area A of the APE consist of Qyf, or young alluvial fan deposits, with the rest of the area featuring Qw, alluvial wash deposits, and a very small amount of pKm, Cretaceous and pre-Cretaceous metamorphic formations.

The young alluvial fan deposits, *Qyf*, date to the Holocene to Late Pleistocene and is described as "unconsolidated to slightly consolidated, undissected to slightly dissected boulder, cobble, gravel, sand, and silt deposits issued from a confined valley or canyon." *Qw* dates to the late Holocene and is described as "unconsolidated sandy and gravelly sediment deposited in recently active channels of streams and rivers," while *pKm* is Mesozoic in age or older and is of "sedimentary and volcanic origin."

The surface soils in Area D-3 are identified as *Qyf* and *Qw*, while the soils in Area G are identified primarily as *Qyf*, with portions consisting of *Qw*. In Areas H and I, the soils also consist of *Qyf* and *Qw*, with the northern portion of the areas having some *Qof*, or old alluvial fan deposits, which date to the late to middle Pleistocene and are described as "slightly to moderately consolidated, moderately dissected boulder, cobble, gravel, sand and silt deposits issued from a confined valley or canyon." The soils in Areas J-2 are identified as *Qyf*, *Qof*, and a small portion as *pKm*, while Area K is identified as *Qyf*, *Qw*, and *pKm*. The soils in I-10 Corridor are identified as *Qyf*, *Qe* (eolian and dune deposits), and *Qya* (young alluvial valley deposits). The eolian and dune deposits, *Qe*, date to the late Holocene and are described as "unconsolidated, generally well-sorted wind-blown sand," while *Qya* dates to the Holocene to Late Pleistocene and is described as "unconsolidated to slightly consolidated, undissected to slightly dissected clay, silt, sand, and gravel along stream valleys and alluvial flats of larger rivers."

The potential for encountering buried archaeological deposits in the Holocene-age alluvial and fluvial soils that cover the majority of the APE ranges from low to high. The Pleistocene-age or older soils are known to be present on or very close to the surface. Deposited largely before widespread human habitation in this region, these soils are generally considered unlikely to contain deeply buried cultural materials.

Areas A, D-3, G, H, I, J-2, and K of the APE lie at a higher elevation, at and above the northwest-southeast trending Mission Creek branch of the San Andreas Fault, where geologic processes forced groundwater to the surface near Two Bunch Palms. Active springs in that area led to the development of an oasis lush with vegetation and full of wild game, which attracted human populations to settle the area over 2,000 years ago. These oases and the mesquite dunes that formed around them also provided shelter against the sometimes turbulent winds in the San Gorgonio Pass area, which was an important factor in the establishment of Native American settlements.

In comparison, the areas within the APE lacked both perennial water sources and vegetation that could provide shelter from the wind. Therefore, they would be considered less favorable for long-term human habitation in prehistoric times. They would likely be used as resource gathering areas where plant and animal resources were harvested for consumption and use at nearby habitation sites (e.g., the Two Bunch Palms oasis). As such, there is a low potential for substantial prehistoric archaeological deposits to be encountered subsurface in most of the APE. Conversely, along the southern portion Miracle Hill Road and the western portions of Loma Vista Road and Monterey Road,

near the Two Bunch Palms village site, the potential for encountering buried, intact prehistoric archaeological deposits appears to be high.

During the historic period, the southern portions of Areas H and I were partially occupied by Cabot Yerxa's homestead with several buildings, including the Yerxa Trading Post identified on the 1940s USGS maps. These buildings were evidently removed prior to the subdivision and residential development that occurred in the Miracle Hill area following WWI. At this time, the extent of ground disturbance resulting from the more recent development is unclear, as is the depth at which native sediments may be encountered underneath the existing roadbeds. As such, it is possible that buried archaeological deposits associated with the early 20th century settlement may be encountered during excavation in the southern portion of Areas H and I, around the intersection of Hidalgo Street/Yerxa Road and Loma Vista Road.

In summary, there is a low potential for encountering buried archaeological deposits associated with prehistoric and historic land use and settlement in most of the APE. However, areas with a moderate to high potential for encountering such deposits are identified along the southern portion Miracle Hill Road and the western portions of Loma Vista Road and Monterey Road, as well as around the intersection of Hidalgo Street/Yerxa Road and Loma Vista Road.

Survey Results

Areas A, D-3, G, H, I, J-2, and K are predominantly residential neighborhoods with some commercial establishments, while I-10 Corridor consists of commercial and industrial properties and vacant land. Much of the ground surface in the APE is paved or covered by landscaping, with little vestige of the native ground surface visible. In addition, two small portions of the APE in I-10 Corridor had restricted access, where the survey team was unable to enter due to active road construction east of Indian Canyon Drive on 20th Avenue and east of Calle de los Romos on 19th Avenue. Both of these areas, however, are located within and adjacent to paved roadbeds. in light of the extent of past ground disturbances in the vicinity, the visibility level and restricted access were not considered a major hindrance to the survey effort.

The field survey of the APE yielded negative results for potential "historic properties" or "historical resources," and no buildings, structures, objects, features, or artifacts of potential historic significance were observed within the APE boundaries. No trace of Sites 33-028591 and 33-0028595, the two previously recorded historic-period refuse scatters, or Isolate 33-28593, the metal can, were discovered at or near their previously reported locations. As demonstrated by the historical research results, most of the roadways in the APE are now more than 50 years old, including the segment of Indian Canyon Drive between Dillon Road and Garnet Avenue, which is a part of Site 33-008410. However, the current appearance of these roads reflects the results of decades of upgrading and maintenance during the modern era, and none of them demonstrates any particularly historical character.

Conclusion

Historical Resources: The only built-environment feature in the APE that was previously identified as a cultural resource, Site 33-008410, does not meet the definition of a "historic property" under Section 106 or a "historical resource" under CEQA. Also in the APE, most of the existing roadways containing the proposed sewer main pipelines are now more than 50 years of age, but their current characteristics are a direct result of upgrading and maintenance during the modern era. As working

components of the modern transportation infrastructure, they are not considered potential "historic properties" or "historical resources." Thus, the project as it is currently proposed will not cause a substantial adverse change to any known historical resources.

Archaeological Resources: None of the three archaeological resources previously recorded within, partially within, or in very close proximity to the APE, Site 33-028591, Isolate 33-028593, and Site 33-028595, could be found in the field today. Therefore, the proposed undertaking would not affect any known archaeological resources. The geoarchaeological analysis suggests that most of the vertical APE is relatively low in sensitivity for subsurface deposits of intact, potentially significant archaeological remains from the prehistoric or early historic period. However, two areas of moderate to high sensitivity for buried archaeological deposits were identified from the sources consulted.

Historical maps indicate that buildings associated with well-known early settler Cabot Yerxa's homestead and trading post once stood in or near the southern portions of Areas H and I, around the intersection of Hidalgo Street/Yerxa Road and Loma Vista Road. To the west of that location, existing archaeological records show the eastern extent of Site 36-001246, known as the Two Bunch Palms village site, lies a few hundred feet from the southwestern portion of Area H, namely along the southernmost segment of Miracle Hill Road and the westernmost segments of Loma Vista Road and Monterey Road.

Yerxa's homestead was evidently removed prior to the development of the Miracle Hill area, but it is possible that archaeological features and/or artifact deposits associated with the homestead may survive in this area at depth. Similarly, given the close distance, the possibility that buried prehistoric cultural deposits associated with Site 36-001246 may extend into the APE cannot be ruled out. Any archaeological discovery that is potentially related to either Cabot Yerxa's homestead or the Two Bunch Palms village site would require further study to examine its possible association with a historical figure of recognized importance to the community and the potential to yield important information for the study of local history or prehistory.

Recommendations

In conclusion, the undertaking as currently proposed would not cause an "adverse effect" or a "substantial adverse change" to any known "historic properties" or "historical resources," as defined by Section 106 and CEQA. While most of the APE appears relatively low in sensitivity for subsurface cultural deposits, the southern portions of Areas H and I and the southwestern portion of Area H demonstrate a moderate to high potential for such deposits, as outlined above.

Since the APE lies predominantly within the paved roadbeds of existing public roads or on adjacent private properties, standard subsurface exploration procedures known as Extended Phase I do not appear to be a feasible approach to determine the presence or absence of subsurface cultural remains in the vertical APE. In order to identify such remains in a timely manner and, if necessary, protect them from project impact, it is recommended that excavations and other ground-disturbing operations that will reach beyond the roadbed fill (generally speaking the uppermost five to six feet of surface and near-surface soils) in the archaeologically sensitive areas be conducted under the direction and close observation of a qualified archaeologist. As such, the following mitigation measures shall be implemented:

CUL-1 Should any cultural resources be encountered during construction of these facilities,

earthmoving or grading activities in the immediate area of the finds shall be halted and an onsite inspection shall be performed immediately by a qualified archaeologist. Responsibility for making this determination shall be with the District's onsite inspector. The archaeological professional shall assess the find, determine its significance, and make recommendations for appropriate mitigation measures within the guidelines of the California Environmental Quality Act.

CUL-2 *Due to the heightened cultural sensitivity of the proposed project area, a Qualified Archaeologist (Secretary of the Interior's Standards and Guidelines) shall be present for excavations and other ground-disturbing operations that will reach beyond the roadbed fill (generally speaking the uppermost five to six feet of surface and near-surface soils) in the archaeologically sensitive areas (specifically within Areas H and I). A sufficient number of archaeological monitors shall be present each work day to ensure that simultaneously occurring ground disturbing activities receive thorough levels of monitoring coverage. A Monitoring and Treatment Plan that is reflective of the project mitigation shall be completed by the archaeological consultant and submitted to the District and shall be approved by the District prior to implementation. Any and all findings will be subject to the protocol detailed within the Monitoring and Treatment Plan.*

CUL-3 *If any potentially significant cultural remains are encountered, the mechanical excavations shall be halted or diverted while an archaeological team recovers the materials through procedures consistent to a Phase II archaeological testing program. These procedures should include, at a minimum, the following:*

- *Hand excavations in the immediate vicinity of unearthed cultural remains to remove all artifacts;*
- *Immediate notification of the Riverside County Coroner and consultation with the NAHC and local Native American groups if human remains or potential human remains are discovered, pursuant to California Health and Safety Code §7050.5 and Public Resources Code §5097.98;*
- *Cataloguing, laboratory analysis, and permanent curation of the recovered artifacts;*
- *Compilation of archaeological site records and/or site record updates, as appropriate, to document any archaeological discoveries in the California Historical Resources Inventory;*
- *Preparation of a final report as a comprehensive record of the research procedures and study findings.*

Under this condition, the proposed undertaking may be cleared to proceed in compliance with Section 106 and CEQA provisions on cultural resources. Thus, with the above mitigation measures, the potential for impacts to cultural resources will be reduced to a less than significant level. No additional mitigation is required.

c. *Less Than Significant With Mitigation Incorporated* – As noted in the discussion above, because parts of the project area have been documented as archaeologically sensitive, it is possible that human remains may occur within the Area of Potential Effect (APE). Human remains discovered during the project will need to be treated in accordance with the provisions of HSC §7050.5 and

PRC §5097.98, which is mandatory. State law (Section 7050.5 of the Health and Safety Code) as well as local laws requires that the Police Department, County Sheriff and Coroner's Office receive notification if human remains are encountered. Compliance with these laws is considered adequate mitigation for potential impacts; however, **MM CUL-3**, reinforces compliance with these laws, and as such, would aid in further reducing potential adverse impacts to human remains from project implementation. Thus, the potential for impact to discovery and treatment of human remains will be less than significant with the implementation of mitigation.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact or Does Not Apply
VI. ENERGY: Would the project:				
a) Result in a potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operations?	☐	☐	☒	☐
b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?	☐	☐	☒	☐

SUBSTANTIATION

Impact Analysis

a&b. *Less Than Significant Impact* – Energy consumption encompasses many different activities. For example, construction can include the following activities: delivery of equipment and material to a site from some location (note it also requires energy to manufacture the equipment and material, such as harvesting, cutting and delivering wood from its source); employee trips to work, possibly offsite for lunch (or a visit by a catering truck), travel home, and occasionally leaving a site for an appointment or checking another job; use of equipment onsite (electric or fuel); and sometimes demolition and disposal of construction waste. For the proposed project the number of employees will be limited to about 21 persons at a given time during construction with no new employees anticipated to be required once construction has concluded. The project would require demolition of existing pavement, concrete, and excavation of existing vegetation to install the sewer pipeline and laterals belowground, and further would require septic system abatement. To minimize energy costs of construction debris management, laws are in place that require diversion of all material subject to recycling. During construction, the proposed project will utilize construction equipment that is CARB approved, minimizing emissions generated and electricity required to the extent feasible. Equipment not in use for 5 minutes must be turned off, and electrical construction equipment must be used where available. This standard requirement would prevent a significant impact during construction due to wasteful, inefficient, or unnecessary consumption of energy resources, and would also conform to the CARB regulations regarding energy efficiency.

Southern California Edison Company (SCE) is the primary distribution provider for electricity in the project area. According to the City of Desert Hot Springs General Plan Environmental Impact Report (General Plan EIR), in the 2018 fiscal year, SCE sold approximately 87,143 million kilowatt hours (kWh) of electricity; approximately 46% of the electricity that SCE delivered to customers came from carbon-free resources, including solar energy (approximately 13%), wind energy (approximately 13%), and geothermal energy (approximately 8%). The City's General Plan EIR provides the following analysis related to new development under Chapter 4.6, Energy:

"New development and land use turn over would be required to comply with statewide mandatory energy requirements outlined in Title 24, Part 6, of the California Code of Regulations (the CalGreen Code), which would decrease estimated electricity consumption in new and/or retrofitted

structures. Additional electricity reductions would be achieved through the implementation of Mitigation Measure GHG-1C, which requires the adoption of a Zero Net Energy (ZNE) ordinance. The adoption and implementation of a ZNE ordinance would require increased building efficiency and the installation of renewable energy infrastructure (e.g., photovoltaic (PV) systems and/or windmills) to offset the building/structure's energy consumption."

A ZNE ordinance has not yet been adopted by the City. Furthermore, the proposed project would be required to comply with Title 24, Part 6, of the California Code of Regulations (the CalGreen Code). Additionally, in July 2013, the City of Desert Hot Springs adopted an Energy Action Plan (EAP), to which the project will be required to adhere. However, the operation of the new sewer system will not require a new source of energy to operate. The collection of sewage from Areas A, D-3, G, H, I, J-2, K, and along the I-10 corridor would be operate by gravity or would otherwise be directed to the Dos Palmas Lift Station which will direct wastewater through a pressurized force main to the new regional Nancy Wright Regional Wastewater Reclamation Facility (RWRF). The Dos Palmas Lift Station already handles wastewater within the District's service area, and it is possible that the proposed project could incrementally increase energy demanded by this facility due to operating with greater volume than occurs at present. However, as the proposed project would utilize energy from either SCE, or from the District's existing and planned Solar Arrays, it is not anticipated that this energy demand would be considered unnecessary, inefficient, or wasteful.

No natural gas would be required to operate the proposed project, and trips to the project footprint would occur only on an as needed basis for maintenance purposes. As such, petroleum consumption associated with implementation of the GQPP Septic to Sewer Project would not be considered unnecessary, inefficient, or wasteful.

While MSWD generates solar power to supply some of its operational energy demands, and is in the process of expanding its solar energy generation facilities, SCE still provides the District with electrical service. According to SCE's website[4], SCE is committed to delivering power reliably and to meet demand; SCE is expanding and upgrading the transmission and distribution networks to meet the region's growing demand for electricity, and improve grid performance, while meeting California's ambitious renewable-power goals. As such, it is anticipated that SCE will continue to have ample power supply to serve the construction of the project without the need for additional electrical capacity. Therefore, given the minimal energy required to operate the proposed project, it is not anticipated that the project would either result in a potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operations, or conflict with or obstruct a state or local plan for renewable energy or energy efficiency. Impacts under these issues are considered less than significant.

[4] SCE, 2025. Meeting Demand. https://www.sce.com/about-us/reliability/meeting-demand (10/22/25)

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact or Does Not Apply
VII. GEOLOGY AND SOILS: Would the project:				
a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:				
(i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.	☐	☐	☒	☐
(ii) Strong seismic ground shaking?	☐	☐	☒	☐
(iii) Seismic-related ground failure, including liquefaction?	☐	☐	☒	☐
(iv) Landslides?	☐	☐	☒	☐
b) Result in substantial soil erosion or the loss of topsoil?	☐	☒	☐	☐
c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in onsite or offsite landslide, lateral spreading, subsidence, liquefaction or collapse?	☐	☐	☒	☐
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?	☐	☐	☒	☐
e) Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where RWs are not available for the disposal of wastewater?	☐	☐	☐	☒
f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	☐	☒	☐	☐

SUBSTANTIATION: A paleontological resources sensitivity assessment has been prepared by CRM TECH for the proposed project titled *"Paleontological Resources Sensitivity Assessment: Mission Springs Water District (MSWD) Septic to Sewer Project, in and near the City of Desert Hot Springs, Riverside County, California,"* and dated November 3, 2025. This report is provided as **Appendix 5.**

Impact Analysis

a. i. Ground Rupture

Less Than Significant Impact – The project footprint is located in the City of Desert Hot Springs within the County of Riverside, which is situated proximate to several active faults, including the North and South Branches of the San Andreas fault, which are considered to be Alquist-Priolo fault zones, as well as the Garnet Hill Fault, which is a Riverside County Designated Fault Zone. **Figure VII-1** shows where these faults are located as depicted in the City of Desert Hot Springs General Plan, which depicts faults within the City boundary as well as within and around its Sphere of Influence. The South Branch of the San Andreas and the North Branch of the San Andreas Fault, which are Alquist-Priolo Fault Zones, and the Garnet Hill Fault, which is a Riverside County designated fault zone each traverse through the project footprint, as does an additional unnamed Riverside County designated fault zone. Construction of the proposed sewer pipelines and laterals, as well as the proposed septic abatement activities would be temporary, and would be developed at or below grade and outdoors. Construction workers would generally only be at risk when working indoors. This is because fault rupture may cause structural damage that could affect persons inside structures to be exposed to risk associated with fault rupture when indoors or atop a roof of a structure. Overall, construction would be temporary in nature and the potential for adverse effects on humans as a result of fault rupture during construction is less than significant. Thus, construction impacts would be less than significant.

As the only operational component of the proposed project, underground pipelines are not typically susceptible to severe damage from fault rupture, depending on the severity of a seismic event. In the event that a strong earthquake was to occur, the proposed sewage pipeline could burst, causing sewage to leak. MSWD has a Sewer System Management Plan (SSMP) in place to mitigate impacts of sewage spills/overflows, which MSWD will continue to comply with for the newly constructed facilities. Therefore, while there is a potential for fault rupture, impacts from operation of the proposed sewer pipelines and laterals would be less than significant. As such, the proposed project would have a less than significant potential to expose people or structures to rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map.

ii. Strong Seismic Ground Shaking

Less Than Significant Impact – As stated in the discussion above, several faults run through the City, and as with much of southern California, the proposed sewer pipelines and laterals will be subject to strong seismic ground shaking impacts should any major earthquakes occur in the future, particularly due to the project footprint overlapping with several faults within the City, as shown in **Figure VII-1**. Construction of the proposed sewer pipelines and laterals, as well as the proposed septic abatement activities would be temporary, and would be developed at or below grade and outdoors. Construction workers would generally only be at risk when working indoors. This is because seismic ground shaking may cause structural damage that could affect persons inside structures to be exposed to risk associated with strong seismic ground shaking when indoors or atop a roof of a structure. Overall, construction would be temporary in nature and the potential for adverse effects on humans as a result of seismic ground shaking during construction is less than significant. Thus, construction impacts would be less than significant.

During operation, ground shaking could result in structural damage and hazards to the proposed sewer pipeline and laterals, which in turn could affect their operation. Underground pipelines are not typically susceptible to severe damage from seismic ground shaking, and furthermore are subject to industry standards that will minimize the potential risk of damage or pipeline rupture. The primary and secondary effects of ground shaking could distort or break pipelines, and cause structural failure. In the event that a strong earthquake was to occur, the proposed sewage pipeline could burst, causing sewage to leak. MSWD has a Sewer System Management Plan (SSMP) in place to mitigate impacts of sewage spills/overflows, which MSWD will continue to comply with for the newly constructed facilities. Further, the California Professional Engineers Act (Building and Professions Code Sections 6700-6799) and the Codes of Professional Conduct, as administered by Board for Professional Engineers, Land Surveyors, and Geologists (BPELSG), provide the basis for regulating and enforcing engineering practice in California. Compliance with these construction requirements would reduce potential impacts associated with ground shaking to a level of less than significant. Thus, impacts would be less than significant.

iii. Seismic-Related Ground Failure Including Liquefaction

Less Than Significant Impact – The three factors determining whether a site is likely to be subject to liquefaction include seismic shaking, type and consistency of earth materials, and groundwater level. Liquefaction of saturated cohesionless soils can be caused by strong ground motion resulting from earthquakes. Soil liquefaction is a phenomenon in which saturated, cohesionless soils lose their strength due to the build-up of excess pore water pressure during cyclic loading such as that induced by earthquakes. According to the City of Desert Hot Springs General Plan Seismic Hazards Map (**Figure VII-1**), the project footprint is located within a general area known to be susceptible to liquefaction. Construction of the proposed facilities would be temporary, with the majority of the proposed facilities proposed to be developed underground and outdoors. Construction workers would generally only be at risk when working indoors. This is because liquefaction may cause structural damage that would could affect persons inside structures to be exposed to risk associated with liquefaction when indoors, which is not anticipated to occur during construction. Overall, construction would be temporary in nature and the probability of liquefaction during construction is low. Thus, impacts would be less than significant.

There are sewer pipeline and lateral locations where potential seismic-related ground failure could cause damage once operational, but would not result in a substantial adverse impact, such that the pipeline could not be repaired. This is because, as discussed above, underground pipelines are not typically susceptible to severe damage from liquefaction, and furthermore are subject to industry standards that will minimize the potential risk of damage or pipeline rupture. Thus, liquefaction impacts would be less than significant.

iv. Landslide

Less Than Significant Impact – According to the City of Desert Hot Springs General Plan EIR, Landslides are found along the perimeter of the City on properties abutting the surrounding hills and mountains. The proposed project footprint is generally within developed areas that, while adjacent to the foothills, are removed from hillsides as a result of existing development. Regardless, some landslide potential may exist within the project footprint. Construction of the proposed facilities would be temporary, with the majority of the facilities proposed to be developed

underground and outdoors. Landslides and mudflow hazards exist throughout Big Bear Valley on steep hillsides and in creek and streambed areas. The Conveyance Pipelines would be installed in locations that are generally flat or are within flat areas of roadways in residential areas and therefore the risk associated with landslide occurring and significantly impacting construction activities would be low. Overall, construction would be temporary in nature and the probability of landslide during construction is low. Thus, construction impacts would be less than significant.

While landslide potential is unlikely throughout much of the project footprint, it is possible that in the foothills, some landslide potential may exist. As a result, there are sewer pipeline and lateral locations where potential seismic-related landslide could cause damage, but would not result in a substantial adverse impact, such that the pipeline could not be repaired. This is because, as discussed above, underground pipelines are not typically susceptible to severe damage from landslide, and furthermore are subject to industry standards that will minimize the potential risk of damage or pipeline rupture. Thus, landslide impacts would be less than significant.

b. *Less Than Significant With Mitigation Incorporated* – MSWD proposes to install 142,000 LF of 8-inch sewer pipeline within Areas A, D-3, G, H, I, J-2, K, and along the I-10 corridor to eliminate septic tanks that threaten contamination of potable groundwater supplies by expanding MSWD's wastewater collection system. This project also includes abating more than 2,040 septic tanks, and connecting 2,600 parcels to the District's sewer collection system, as well as installation of an estimated 2,500 new 4- to 6-inch service laterals. The proposed project will install the new sewer pipeline and laterals belowground within existing roadways, and compacted dirt right-of-way. Based on the above description, a majority of the project would occur within developed areas, but there are some sewer pipeline alignments that would occur either within dirt roadways or within undeveloped vacant land, such as that which is planned to occur to cross under the I-10. As indicated in Table VII-1, the whole of the project area contains well drained soils. Compliance with SCAQMD Rule 403 would ensure that construction activities that generate wind-induced soil erosion are below significance thresholds as this requirement is intended to prevent significant wind-induced soil erosion. As a mandatory requirement, mitigation is not required to ensure compliance with the above Rule.

Table VII-1: Soil Units in Project Footprint

Map Unit Symbol	Map Unit Name	Acres in AOI	Drainage and Runoff Class
1250	Ironlung-Rock outcrop complex, 30 to 75 percent slopes	25.5	*Drainage class: Well Drained* *Runoff class: slow to medium runoff*
CdC	Carsitas gravelly sand, 0 to 9 percent slopes	1,137.1	*Drainage class: Somewhat excessively drained* *Runoff class: Very low*
CdE	Carsitas gravelly sand, 9 to 30 percent slopes	233.6	Drainage: *Somewhat excessively drained* *Runoff: negligible to low runoff*
ChC	Carsitas cobbly sand, 2 to 9 percent slopes	165.0	*Drainage class: Excessively drained* *Runoff class: Very low*
CkB	Carsitas fine sand, 0 to 5 percent slopes	786.5	*Drainage class: Excessively drained*

Map Unit Symbol	Map Unit Name	Acres in AOI	Drainage and Runoff Class
			Runoff class: Negligible
CmB	Carsitas variant, 2 to 5 percent slopes	10.8	*Drainage class: Well drained* *Runoff class: Medium*
CoD	Chuckawalla very gravelly sandy clay loam, 5 to 15 percent slopes	40.5	*Drainage class: Well Drained* *Runoff class: medium runoff*
LR	Lithic Torripsamments-Rock outcrop complex	114.9	*Drainage class: Excessively drained* *Runoff class: Very high*
MaB	Myoma fine sand, 0 to 5 percent slopes	6.3	*Drainage class: Somewhat excessively drained* *Runoff class: Negligible*
MaD	Myoma fine sand, 5 to 15 percent slopes	3.0	*Drainage class: Somewhat excessively drained* *Runoff class: Very low*
RO	Rock outcrop	0.9	*N/A*
RT	Rock outcrop-Lithic Torripsamments complex	2.7	*N/A*
W	Water	1.6	*N/A*
Totals for Area of Interest		**2,371.1**	

The proposed project would collectively disturb over one acre of land; however, as each Area will be undertaken consecutively rather than together all at one time, it is possible that smaller areas, specifically Area D-3, may result in disturbance of less than one acre. Larger projects (one-acre or more) must implement Stormwater Pollution Prevention Plans (SWPPPs) that are mandated by the State and County to control runoff during construction and Water Quality Management Plans (WQMPs) must be implemented to control runoff and erosion from specific facility sites once the construction is completed. To prevent erosion associated with runoff from construction sites for each proposed site-specific project, the implementing agencies would implement Best Management Practices (BMPs) to ensure that the discharge of storm runoff from construction sites does not cause erosion downstream from the discharge point. Without the implementation of BMPs, a significant erosion impact could occur. However, for Area D-3, mitigation is necessary to minimize impacts as a SWPPP and WQMP would not be required. The implementation of **MM GEO-1** is necessary to prevent a significant construction related erosion impact, as it would ensure that the proposed facilities associated with the installation of sewer pipeline, laterals, and septic abatement within Area D-3, which would disturb less than one acre in size, would not exacerbate conditions related to erosion associated with runoff from construction sites through the implementation of BMPs. Thus, through the implementation of mitigation, impacts related to implementation of the installation of sewer pipeline, laterals, and septic abatement within Area D-3 proposed project would be less than significant.

GEO-1 ***For each site-specific project that is less than one acre in size requiring ground disturbing activities such as grading, the implementing agencies shall identify and***

implement BMPs to minimize soil erosion and loss of topsoil comparable to that which would be required under a SWPPP (BMPs may include, but are not limited to hay bales, wattles, detention basins, silt fences, coir rolls, etc.) to ensure that the discharge of the storm runoff from the construction site does not cause erosion downstream of the discharge point. If any substantial erosion or sedimentation occurs as a result of discharging storm water from a project construction site, any erosion or sedimentation damage shall be restored to pre-discharge conditions.

The implementation of **MM GEO-1** would ensure that the proposed facilities associated with the project that are less than one acre in size would not exacerbate conditions related to erosion associated with runoff from construction sites through the implementation of BMPs.

Operational erosion impacts are not anticipated to occur, as once the pipelines are installed belowground, the roadways and compacted dirt throughways will be returned to their original condition. Thus, no new potential for erosion would occur and operational impacts would be less than significant. No further mitigation is necessary.

c. *Less Than Significant With Mitigation Incorporated* – As stated under issues VII(a[iii]) and VII(a[iv]) above, the project footprint does not traverse through an area that is susceptible to landslides. However, the project does traverse through areas that may be susceptible to liquefaction. This indicates that the project footprint and general area may be underlain by unstable soils, or be affected by subsidence, lateral spreading, or collapse. Soil instability from landslides, subsidence, lateral spreading, settlement, and slope failure can cause collapse or damage to structures. Construction of the proposed sewer pipeline, laterals, and septic abatement would be temporary, with the majority of the proposed facilities proposed to be developed underground and outdoors. Construction workers would generally only be at risk when working indoors. This is because on-site or off-site landslide, lateral spreading, subsidence, liquefaction or collapse may cause structural damage that would could affect persons inside structures to be exposed to risk associated with lateral spreading, subsidence, liquefaction or collapse when indoors, which is not anticipated to occur during project construction. Overall, construction would be temporary in nature and the probability of lateral spreading, subsidence, liquefaction or collapse during construction is low. Thus, impacts would be less than significant.

Within the project area, non-seismically induced geologic hazards, such as landslides, subsidence, lateral spreading, settlement, and slope failure can be caused by unstable soils, which occur in some parts of the project area. As previously stated, the project does traverse through areas that may be susceptible to liquefaction, which indicates that there is a possibility that soil instability from liquefaction, subsidence, lateral spreading, and settlement may occur within the project area. Slope failure and landslides are unlikely to occur in the project area, as the project area occurs within generally within developed areas that, while adjacent to the foothills, are removed from hillsides as a result of existing development. Soil instability from landslides, subsidence, lateral spreading, settlement, and slope failure can cause collapse or damage to structures. Based on the above location data, there are pipeline locations where potential soil instability could cause damage, but would not result in a substantial adverse impact, such that the pipeline could not be repaired. This is because, as discussed above, underground pipelines are not typically susceptible to severe damage from soil instability, and furthermore are subject to industry standards that will minimize the potential risk of damage or pipeline rupture. Thus, soil instability impacts would be less than

significant.

d. *Less Than Significant Impact* – The entirety of the proposed project will be located below grade. Additionally, according to the United States Department of Agriculture (USDA) Natural Resources Conservation Service Web Soil Survey (**Appendix 4**), the soils that underly the project area vary in type and class. The specific soil properties of a site can vary on a small scale, and may include undetermined areas that exhibit expansive properties. The only area of concern for expansive soils would be in areas where Chuckawalla very gravelly sandy clay loam, 5 to 15 percent slopes occurs, as this soil class contains clay, which is known to exhibit expansive properties. Construction of the proposed facilities would be temporary, with the majority of the proposed facilities proposed to be developed underground and outdoors. Construction workers would generally only be at risk when working indoors. This is because expansive soils may cause structural damage that would could affect persons inside structures to be exposed to risk associated with l expansive soils when indoors, which is not anticipated to occur during construction of the proposed sewer pipeline, laterals, and septic abatement. Overall, construction would be temporary in nature and the probability of expansive soils during construction is low. Thus, impacts would be less than significant.

When expansive soils swell, the change in volume can exert significant pressures on loads that are placed on them, such as loads resulting from structure foundations or underground utilities, and can result in structural distress and/or damage. As stated above, soils throughout the project area do not typically exhibit expansive soil characteristics, with the exception of in areas where Chuckawalla very gravelly sandy clay loam, 5 to 15 percent slopes occurs, as this soil class contains clay, which is known to exhibit expansive properties. However, the proposed pipelines would be installed below ground; soils with expansive characteristics could exert pressure on the pipelines during times of saturation, potentially threatening pipeline stability. However, as with seismic hazards, there are sewer pipeline and lateral locations where potential expansive soil presence could cause damage, but would not result in a substantial adverse impact, such that the pipeline could not be repaired. This is because, as discussed above, underground pipelines are not typically susceptible to severe damage from landslide, and furthermore are subject to industry standards that will minimize the potential risk of damage or pipeline rupture. Thus, expansive soils impacts would be less than significant related to the creation of substantial risks to life or property.

e. *No Impact* – The proposed project proponent is MSWD, and the overall purpose of the proposed GQPP Septic to Sewer Project is intended to connect area septic systems users to their wastewater collection service. No septic systems or alternative wastewater disposal systems are proposed as part of the project. Thus, because the project will be served by a municipal wastewater provider, no impacts related to the use of septic tanks or alternative water disposal systems will occur.

f. *Less Than Significant With Mitigation Incorporated* – In the Paleontological Resources Memo prepared by CRM TECH (**Appendix 5**), CRM TECH indicates that they initiated a records search at the appropriate repository, conducted a literature review, and carried out a systematic field survey of the APE. The records search service for this study was provided by the Western Science Center (WSC) in Hemet, California. The records search found no fossil localities within the APE or within a one-mile radius. However, the WSC considers the area to be high in paleontological sensitivity, stating that "any fossil specimens recovered from the project would be scientifically significant" (refer to **Figure VII-2**, which depicts the surface sediments within the project area). Therefore, the WSC recommends that a paleontological resource mitigation program be implemented, including

monitoring, to salvage and curate fossil remains potentially present within the APE (refer to **Appendix 5**).

The field survey of the APE encountered no surface evidence of any paleontological resources. Surface soils observed in the unpaved portions of I-10 Corridor were alluvial silty sand deposits, and no other geological formations or any indications of fossil remains were noted. As noted above, the ground surface in most of the APE has been extensively disturbed by past construction activities associated with the existing roadways, underground utility lines, and adjacent developments, leaving little vestige of the native landscape. As a result, it does not represent an accurate reflection of the paleontological sensitivity of the native soils in the vicinity.

In summary of the research results presented above, no paleontological localities were previously found within or in the immediate vicinity of the APE, and no surface manifestation of any fossil remains were observed during the field survey. However, the prevailing sediments at the APE location have been identified as Pleistocene-age alluvium, which generally has a high potential to contain significant, nonrenewable fossil remains beyond the extensively disturbed surface soils.

Based on the sensitivity assessment outlined above, the proposed project may impact paleontological resources that are potentially present in the relatively undisturbed subsurface sediments. Therefore, a mitigation plan shall be prepared for the project by a qualified paleontologist to prevent a potentially significant paleontological resources impact. As the primary component of the mitigation plan, paleontological monitoring should be required during the project, as outlined in detail below:

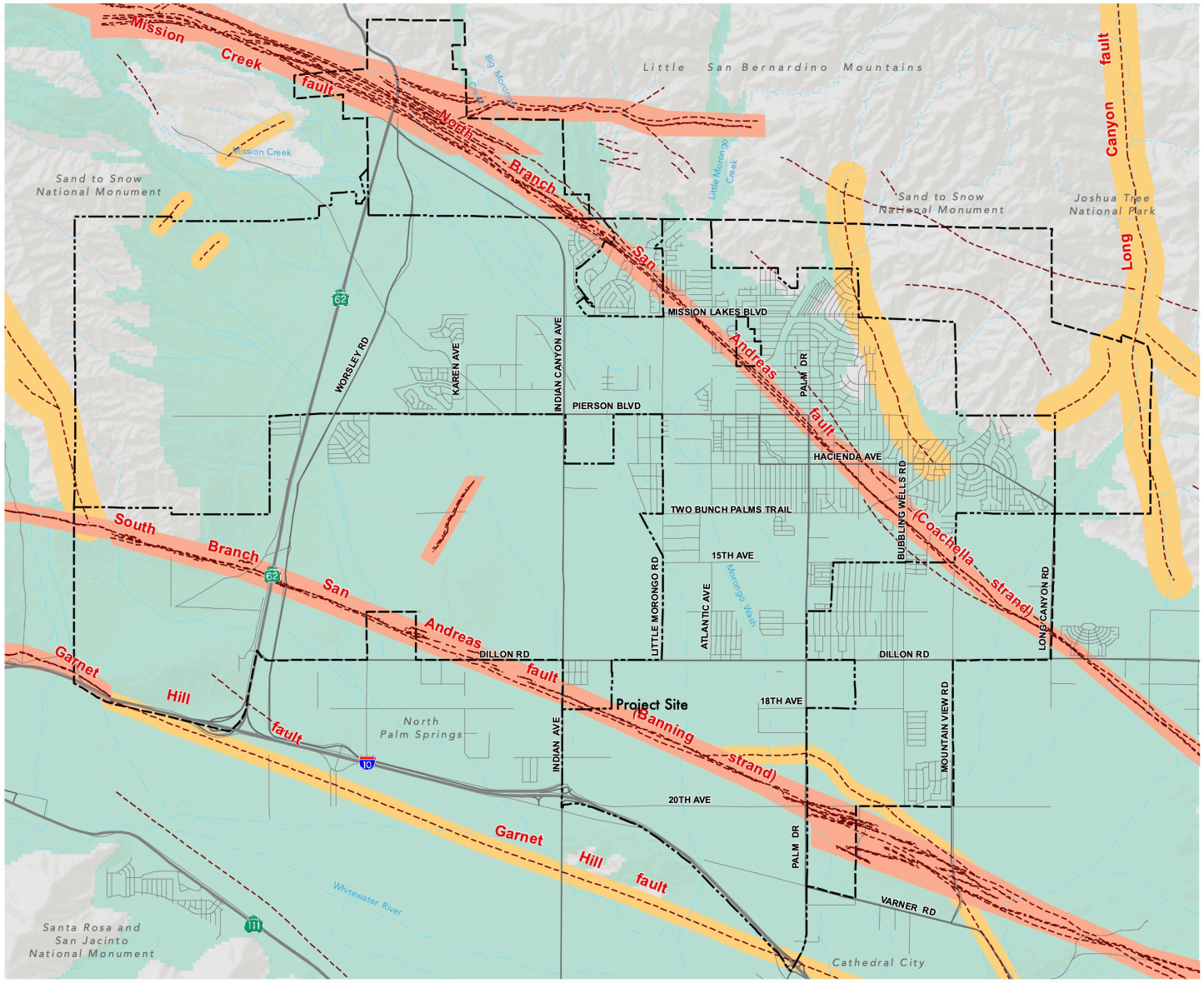
GEO-2 ***All earth-moving operations reaching beyond the disturbed surface soils (generally five to six feet in depth within the existing roadbed) shall be monitored by a qualified paleontological monitor. The monitor shall be prepared to quickly salvage fossils as they are unearthed to avoid construction delays and shall collect samples of sediments that are likely to contain fossil remains of small vertebrates or invertebrates. However, the monitor must have the power to temporarily halt or divert grading equipment to allow for the removal of abundant or large specimens.***

Collected samples of sediment shall be processed to recover small fossils, and all recovered specimens shall be identified and curated at a repository with permanent retrievable storage.

A report of findings, including an itemized inventory of recovered specimens, shall be prepared upon completion of the procedures outlined above. The report shall include a discussion of the significance of the paleontological findings, if any. The report and the inventory, when submitted to the MSWD and the USACE, would signify completion of the statutory compliance process regarding paleontological resources.

With implementation of the above mitigation measure, impacts under this issue are lowered to a level of less than significant.

Figure VII-1



DESERT HOT SPRINGS GENERAL PLAN

Figure SN-3: Seismic Hazards

Sesimic Hazards
- Faults
- Liquefaction

Fault Zones
- Riverside County Designated Fault Zone
- Alquist Priolo Fault Zone

Base Map Features
- City Boundary
- Sphere of Influence
- Water Courses

Source: City Of Desert Hot Springs and Riverside County.
Date: January 2019.

0 0.25 0.5 1 1.5 2 Miles

FIGURE VII-1

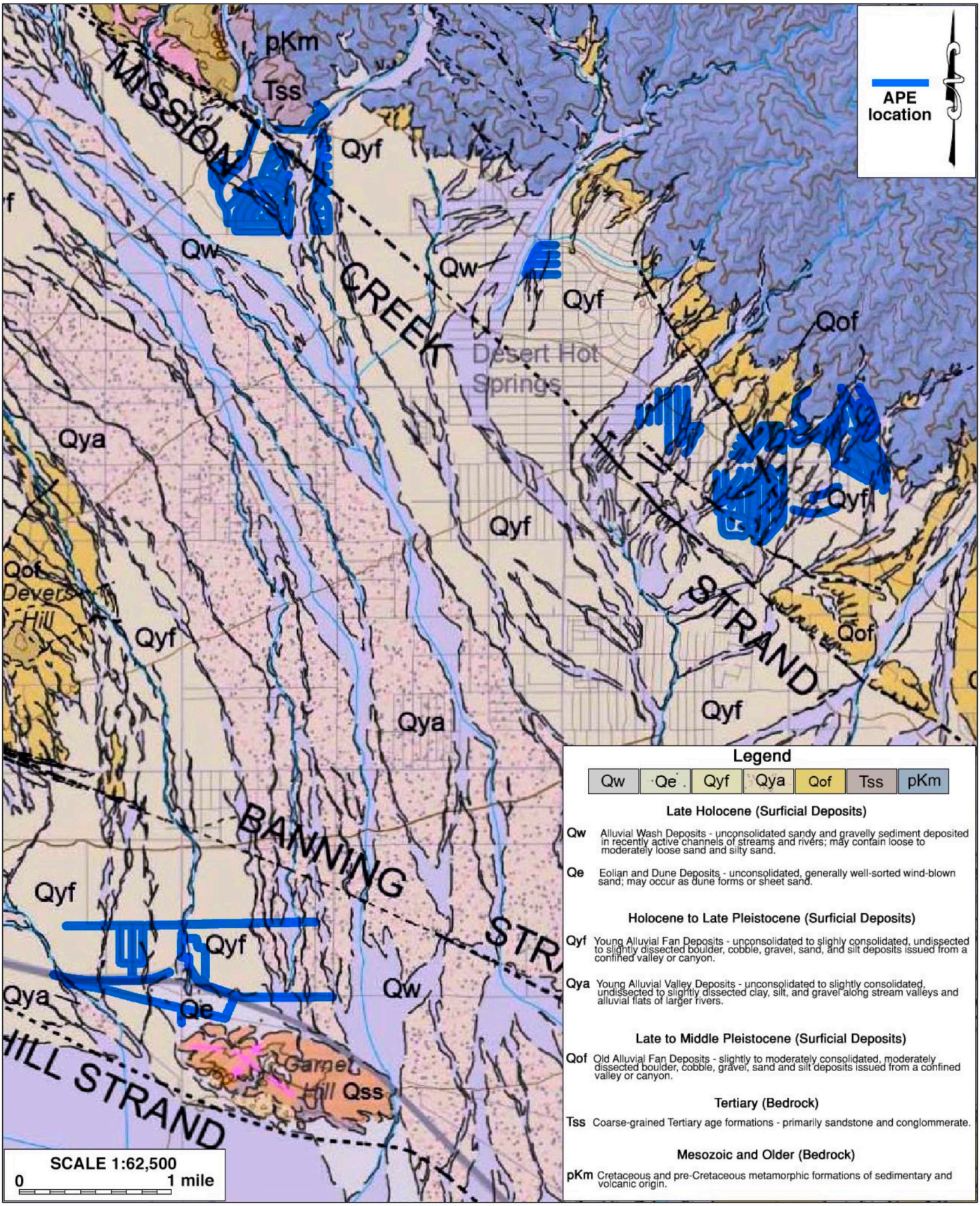


FIGURE VII-2

Tom Dodson & Associates
Environmental Consultants

Surface Sediments Map

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact or Does Not Apply
VIII. GREENHOUSE GAS EMISSIONS: Would the project:				
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	☐	☐	☒	☐
b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	☐	☐	☒	☐

SUBSTANTIATION: The following information utilized in this section of the Initial Study was obtained from the following technical study: *Mission Springs-306 Air Quality & Greenhouse Gas Assessment prepared* by Urban Crossroads dated November 3, 2025. This technical study is provided as **Appendix 1** to this document.

Climate Change Setting

Global climate change (GCC) is the change in average meteorological conditions on the earth with respect to temperature, precipitation, and storms. The majority of scientists believe that the climate shift taking place since the Industrial Revolution is occurring at a quicker rate and magnitude than in the past. Scientific evidence suggests that GCC is the result of increased concentrations of GHGs in the earth's atmosphere, including carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O), and fluorinated gases. The majority of scientists believe that this increased rate of climate change is the result of GHGs resulting from human activity and industrialization over the past 200 years.

An individual project like the proposed project evaluated in this memo cannot generate enough GHG emissions to affect a discernible change in global climate. However, the proposed project may participate in the potential for GCC by its incremental contribution of GHGs combined with the cumulative increase of all other sources of GHGs, which when taken together constitute potential influences on GCC. Because these changes may have serious environmental consequences, this memo will evaluate the potential for the proposed project to have a significant effect upon the environment as a result of its potential contribution to the greenhouse effect.

GCC refers to the change in average meteorological conditions on the earth with respect to temperature, wind patterns, precipitation and storms. Global temperatures are regulated by naturally occurring atmospheric gases such as water vapor, CO_2, N_2O, CH_4, hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF_6). These particular gases are important due to their residence time (duration they stay) in the atmosphere, which ranges from 10 years to more than 100 years. These gases allow solar radiation into the earth's atmosphere, but prevent radiative heat from escaping, thus warming the earth's atmosphere. GCC can occur naturally as it has in the past with the previous ice ages.

Gases that trap heat in the atmosphere are often referred to as GHGs. GHGs are released into the atmosphere by both natural and anthropogenic activity. Without the natural GHG effect, the earth's

average temperature would be approximately 61 degrees Fahrenheit (°F) cooler than it is currently. The cumulative accumulation of these gases in the earth's atmosphere is considered to be the cause for the observed increase in the earth's temperature.

For the purposes of this analysis, emissions of CO_2, CH_4, and N_2O were evaluated because these gases are the primary contributors to GCC from development projects. Although there are other substances such as fluorinated gases that also contribute to GCC, these fluorinated gases were not evaluated as their sources are not well-defined and do not contain accepted emissions factors or methodology to accurately calculate these gases.

Standards of Significance

According to the *CEQA Guidelines* Appendix G thresholds, to determine whether impacts from GHG emissions are significant. Would the project:

- **Threshold 1**: Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment?
- **Threshold 2**: Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of GHGs?

The evaluation of an impact under CEQA requires measuring data from a project against both existing conditions and a "threshold of significance." For establishing significance thresholds, the Office of Planning and Research's amendments to the *CEQA Guidelines* Section 15064.7(c) state "[w]hen adopting thresholds of significance, a lead agency may consider thresholds of significance previously adopted or recommended by other public agencies, or recommended by experts, provided the decision of the lead agency to adopt such thresholds is supported by substantial evidence."

CEQA Guidelines Section 15064.4(a) further states, ". . . A lead agency shall have discretion to determine, in the context of a particular project, whether to: (1) Use a model or methodology to quantify greenhouse gas emissions resulting from a project, and which model or methodology to use . . .; or (2) Rely on a qualitative analysis or performance-based standards."

CEQA Guidelines Section 15064.4 provides that a lead agency should consider the following factors, among others, in assessing the significance of impacts from greenhouse gas emissions:

- **Consideration #1:** The extent to which the project may increase or reduce greenhouse gas emissions as compared to the existing environmental setting.
- **Consideration #2:** Whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project.
- **Consideration #3:** The extent to which the project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of greenhouse gas emissions. Such regulations or requirements must be adopted by the relevant public agency through a public review process and must reduce or mitigate the project's incremental contribution of greenhouse gas emissions. In determining the significance of impacts, the lead agency may consider a project's consistency with the State's long-term climate goals or strategies, provided that substantial evidence supports the agency's analysis of how those goals

or strategies address the project's incremental contribution to climate change and its conclusion that the project's incremental contribution is not cumulatively considerable.

Establishment of Significance Thresholds

The Mission Springs Water District has not adopted its own numeric threshold of significance for determining impacts with respect to GHG emissions. A screening threshold of 3,000 MTCO2e/yr to determine if additional analysis is required is an acceptable approach. This approach is a widely accepted screening threshold used by numerous cities and counties in the SSAB and is based on the SCAQMD staff's proposed GHG screening threshold for stationary source emissions for non-industrial projects, as described in the SCAQMD's Interim CEQA GHG Significance Threshold for Stationary Sources, Rules and Plans (SCAQMD Interim GHG Threshold). The SCAQMD Interim GHG Threshold identifies a screening threshold to determine whether additional analysis is required.

Impact Analysis

a. *Less Than Significant Impact* – The estimated GHG emissions for the project are summarized in Table VIII-1. The estimated GHG emission includes emissions from Carbon Dioxide (CO2), Methane (CH4), Nitrous Oxide (N2O), and Refrigerants (R). As shown in Table VIII-1, the project would generate a total of approximately 261.43 MTCO2e/yr. Detailed model outputs for the proposed project are presented in Attachment A of **Appendix 1**.

Table VIII-1: Emissions (Metric Tons CO_2e)

Source	Emissions (MT/year)				
	CO_2	CH_4	N_2O	Refrigerants	Total CO_2e
Annual construction-related emissions amortized over 30 years	257.71	7.91E-03	1.16E-02	5.12E-02	261.43
Total CO_2E (All Sources)	261.43				
Screening Threshold (CO_2E)	3,000				
Threshold Exceeded?	NO				

As shown in Table VIII-1, the project will result in approximately 261.43 $MTCO_2e/yr$; the proposed project would not exceed the screening threshold of 3,000 $MTCO_2e/yr$. Thus, the project would not have the potential to result in a cumulatively considerable impact with respect to GHG emissions and project GHG emissions would have a less than significant impact.

b. *Less Than Significant Impact* – The Mission Springs Water District has not adopted its own numeric threshold of significance for determining impacts with respect to GHG emissions. A screening threshold of 3,000 $MTCO_2e/yr$ to determine if additional analysis is required is an acceptable approach. This approach is a widely accepted screening threshold used by numerous cities and counties in the SSAB and is based on the SCAQMD staff's proposed GHG screening threshold for stationary source emissions for non-industrial projects, as described in the SCAQMD's Interim CEQA GHG Significance Threshold for Stationary Sources, Rules and Plans (SCAQMD Interim GHG Threshold). The SCAQMD Interim GHG Threshold identifies a screening threshold to determine whether additional analysis is required.

The project will result in approximately 261.43 $MTCO_2e/yr$ from construction activities. As such, the

project would not exceed the SCAQMD's recommended numeric threshold of 3,000 $MTCO_2e$/yr if it were applied. Thus, the project would not result in a cumulatively considerable impact with respect to GHG emissions

2022 Scoping Plan Consistency

The project would not impede the State's progress towards carbon neutrality by 2045 under the 2022 Scoping Plan. The project would be required to comply with applicable current and future regulatory requirements promulgated through the 2022 Scoping Plan. As such, the project would be consistent with the 2022 Scoping Plan.

As discussed above, the project involves construction activity and does not propose a trip-generating land use or facilities that would generate any substantive amount of on-going GHG emissions. As presented in Table VIII-1, the project's GHG emissions are below the 3,000 $MTCO_2e$/yr threshold. As concluded in Impact Statement GHG-1 the proposed project would not have the potential to generate a significant amount of GHGs emissions. As such, the proposed project will not conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs.

Conclusion

Thus, a less than significant impact related to GHG emissions from project construction and operation would occur and no mitigation is required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact or Does Not Apply
IX. HAZARDS AND HAZARDOUS MATERIALS: Would the project:				
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	☐	☒	☐	☐
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?	☐	☒	☐	☐
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	☐	☐	☒	☐
d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?	☐	☐	☒	☐
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?	☐	☐	☐	☒
f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	☐	☒	☐	☐
g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?	☐	☒	☐	☐

SUBSTANTIATION

a. *Less Than Significant With Mitigation Incorporated* – Construction of proposed sewer pipelines and laterals, as well as the proposed septic abatement activities can require delivery of hazardous materials (such as petroleum products) to support their installation. Implementation of mitigation outlined below, is necessary to avoid a significant adverse impact under this issue and ensure that the use and generation of hazardous substances in support of both construction and operation of the proposed project facilities would not pose a significant hazard to workers, adjacent land uses, or the environment. **MM HAZ-1** would require implementation of an Hazardous Materials Business Plan (HMBP) and the Best Management Practices (BMPs) therein to minimize the potential for

accidental release of hazardous materials. **MM HAZ-2** would require assessment of the accidental release scenarios and identify equipment and personnel training necessary to control and prevent the spread of any accidentally released hazardous materials, thereby minimizing exposure to and spread of hazardous materials. **MM HAZ-3** would require disposal of hazardous materials in compliance with State and Federal law. **MM HAZ-4** would require cleanup of any contaminated areas as a result of accidental release during construction or operation to ensure that the site contamination level has been reduced to a level that complies with State and Federal law.

HAZ-1 ***For project facilities that handle hazardous materials or generate hazardous waste, the HMBP prepared and submitted to the CUPA shall incorporate BMPs designed to minimize the potential for accidental release of such chemicals and shall meet the standards required by California law for HMBPs. The facility managers shall implement these measures to reduce the potential for accidental releases of hazardous materials or wastes. The HMBP shall be approved prior to operation of the given facility.***

HAZ-2 ***The HMBP shall assess the potential accidental release scenarios and identify the equipment and response capabilities required to provide immediate containment, control, and collection of any released hazardous material. Prior to issuance of the certificate of occupancy, each facility shall ensure that necessary equipment has been installed and training of personnel has occurred to obtain sufficient resources to control and prevent the spread of any accidentally released hazardous or toxic materials.***

HAZ-3 ***All hazardous materials that become waste during both operation and construction of project infrastructure shall be delivered to a licensed treatment, disposal, or recycling facility and be disposed of in accordance with State and Federal law.***

HAZ-4 ***Before determining that an area contaminated as a result of an accidental release during project operation or construction is fully remediated, specific thresholds of acceptable clean-up shall be established and sufficient samples shall be taken and tested within the contaminated area to verify that these clean-up thresholds have been met in compliance with State and Federal law.***

These **MMs** will be applied to project facilities and would reduce potential impacts to a level of less than significant.

Long-term operation of the project would not require use of hazardous materials. These facilities would be installed belowground, and would therefore not involve routine transport, use, or disposal of hazardous materials. Thus, no potential to create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials existing. No impacts would occur.

Thus, no greater potential to create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials exists as a result of implementing the proposed project. Overall, impacts are therefore less than significant with mitigation incorporated.

b. *Less Than Significant With Mitigation Incorporated* – As discussed above, construction activities

associated with implementation of the proposed sewer pipelines and laterals, as well as the proposed septic abatement could create hazards to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials used in construction activities and equipment. Construction activities may involve the use of adhesives, solvents, paints, thinners, petroleum products, and other chemicals. Cal/OSHA regulations provide for the proper labeling, storage, and handling of hazardous materials to reduce the potential harmful health effects that could result from worker exposure to hazardous materials. If not properly handled, however, accidental release of these substances could expose construction workers, degrade soils, or become entrained in stormwater runoff, resulting in adverse effects on the public or the environment. MSWD would be required to comply with all relevant and applicable Federal, State, and local laws and regulations that pertain to the accidental release of hazardous materials during construction of proposed facilities such as California Health and Safety Code Sections 25500 et seq. Compliance with all applicable Federal, State, and local regulations can reduce potential impacts to the public or the environment regarding accidental release of hazardous materials to less than significant impact, but a contingency **MM** is provided to ensure accidental releases and any related contamination would not significantly affect the environment at facility locations, thereby avoiding a potentially significant impact. **MM HAZ-5**, would minimize the potential hazard to the public or environment due to accidental release.

HAZ-5 ***All accidental spills or discharge of hazardous material during construction activities shall be reported to the local CUPA and shall be remediated in compliance with applicable Federal, State, and local regulations regarding cleanup and disposal of the contaminant released. The contaminated waste shall be collected and disposed of at a licensed disposal or treatment facility. This measure shall be incorporated into SWPPP prepared for each future facility developed under the project, or where an SWPPP is not required due Project size, shall be incorporated as a BMP. Prior to accepting the site as remediated, the area contaminated shall be tested to verify that any residual concentrations meet the standard for future residential or public use of the site.***

The use of hazardous materials and substances during construction would be subject to the Federal, State, and local health and safety requirements for the handling, storage, transportation, and disposal of hazardous materials, summarized in the Regulatory Setting. With compliance with these regulations, and preparation and implementation of **MM HAZ-5**, hazardous material impacts related to construction activities would be less than significant.

Operation of the proposed sewer pipelines and laterals, as well as the proposed septic abatement would consist of transmission of sewage to MSWD's wastewater treatment facilities. Hazardous materials would not be associated with the regular operation of the proposed sewer pipelines and laterals, as well as the proposed septic abatement. Therefore, operational impacts would be less than significant.

c. *Less Than Significant Impact* – The proposed project footprint traverses through a large portion of the City of Desert Hot Springs, as well as through limited portions of the City of Palm Springs, and Unincorporated Riverside County. As a result, the proposed project would be installed in some locations within one quarter mile of a school. Public schools in the area are shown on **Figure IX-1**, which depicts the Wildfire Hazards within the City in the City's General Plan. Thus, it is possible that

construction of proposed facilities would occur within one-quarter mile of a school. Construction activities would use limited quantities of hazardous materials during construction of pipelines and ancillary facilities, such as gasoline and diesel fuel. Additionally, MSWD would be required to comply with all relevant and applicable Federal, State and local laws and regulations that pertain to the accidental release of hazardous materials during construction of proposed facilities. Compliance with all applicable Federal, State and local regulations would help to reduce potential impacts to the public or the environment regarding hazardous waste emissions within one-quarter mile of a school. Impacts would be less than significant.

Operation of the proposed project would consist of facilities designed to convey sewage to MSWD's wastewater treatment plants. Therefore, hazardous materials would not be associated with the regular operation of the facilities, and no hazardous materials would be emitted or handled within one-quarter mile of a school. Compliance with all applicable federal, state and local regulations would help to reduce potential impacts to the public or the environment regarding hazardous waste emissions within one-quarter mile of a school during operations. Impacts would be less than significant.

d. *Less Than Significant Impact* – The proposed project footprint is not located in an area that has been included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result it will not create a significant hazard to the public or environment. According to the California State Waterboard's GeoTracker, which provides information regarding Leaking Underground Storage Tanks, there are no locations within the project footprint identified as a Leaking Underground Storage Tank (LUST) site or Department of Toxic Substances Control (DTSC) sites (**Figures IX-2 through IX-9** see GeoTracker figures). There are two listed LUST cleanup sites located adjacent to the I-10 area alignment, wherein the media of concern is listed as groundwater contamination (**Figure IX-8 and IX-9**). Further, there is one DTSC site that is simply a DTSC site as it is a school and was investigated in advance of school development (**Figure IX-7**). As the cases for these sites are not open, and are therefore considered remediated, no potential exists for the proposed project to encounter hazards related to an existing known hazardous contamination site. Furthermore, the nature of the proposed project is not such that persons working or residing in the area would be exposed to any hazards from any nearby contaminated sites, particularly as the proposed pipelines, laterals, and septic abatement would occur within mostly disturbed areas. Therefore, the proposed GQPP Septic to Sewer Project is not anticipated to create a significant hazard to the population or to the environment from their implementation. Impacts are considered less than significant. No mitigation is required.

e. *No Impact* – The Palm Springs International Airport is the closest airport to the proposed GQPP Septic to Sewer Project. Based on a review of Google Maps, the proposed GQPP Septic to Sewer Project footprint is located, at a minimum, approximately 3.6 miles north of the Palm Springs International Airport, located in the City of Palm Springs. The proposed project footprint is not located within an Influence Area identified in the Palm Springs International Airport section of the Riverside County Airport Land Use Commission's Compatibility Plan (**Figure IX-10**).[5] Given the large distance between the proposed project and nearby airports, project implementation would not

[5] Riverside County, 2005. *Riverside County Airport Land Use Compatibility Plan Policy Document.* https://rcaluc.org/sites/g/files/aldnop421/files/migrated/Portals-13-PDFGeneral-plan-newplan-18--20Vol.-201-20Palm-20Springs-20International.pdf (Accessed 12/09/25)

result in a safety hazard for people residing or working in the project area. Furthermore, there are no private airstrips/public use airports located within two miles of the project site. Therefore, the development of the proposed GQPP Septic to Sewer Project would have no potential to result in a safety hazard or excessive noise for people residing or working in the project area.

f. *Less Than Significant With Mitigation Incorporated* – The proposed project will be located within existing roadways within the City of Desert Hot Springs. Sewer pipelines and laterals installation would require construction along or in public roadways, with minimal areas of the sewer pipelines located in undisturbed areas, with another exception being an area that is not paved, consisting of compacted dirt to connect sewer pipeline from Hidalgo Street to Quinta Way. Pipeline installed within public roadways could interfere with an adopted emergency response plan or emergency evacuation plan. The Desert Hot Springs General Plan Wildfire Hazards Map (**Figure IX-1**) indicates the emergency evacuation routes within the project vicinity. The proposed sewer pipeline alignments have generally been designed to avoid conflicts with these roadways, with the exception of connecting a pipeline within Hacienda Avenue (Areas H, J-2, and K), and the short section of sewer pipeline located within Indian Canyon Avenue. At no time during the installation of pipeline will the entirety of this roadway be closed. The project would require one lane to be closed, which would allow for through-traffic so long as a traffic management plan is developed and implemented. Thus, in order to ensure adequate emergency circulation during construction of the proposed pipelines, implementation of **MMs TRAN-1 and WF-1** would be required. This is because this construction activity, and other anticipated construction activities associated with sewer pipeline alignments, could potentially block access to roadways and driveways for emergency vehicles. The construction-related impacts, although temporary, could potentially impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan. However, at no time during the installation of the proposed sewer pipeline alignments and associated laterals will the entirety of the roadways be closed. It is anticipated that the installation of the proposed sewer pipeline alignments and associated laterals within road ROW would require only one lane to be closed, which would allow for through-traffic so long as a traffic management plan is developed and implemented, which shall be enforced through the implementation of **MMs TRAN-1 and WF-1**. Construction impacts would be less than significant through the implementation of mitigation.

TRAN-1 *Prepare and Implement Construction Transportation Management Plan (TMP)*
A construction TMP shall be developed and implemented by the implementing agency, in coordination with the respective jurisdictions, the City of Desert Hot Springs, County of Riverside Transportation Department, and/or other relevant parties during construction of the proposed project. The TMP shall conform to Caltrans' Transportation Management Plan Guidelines and shall include but is not limited to:

Construction Traffic Routes and Staging Locations: ***The TMP shall identify construction staging site locations and potential road closures, alternate routes for detours, and planned truck routes for construction-related vehicle trips, including but not limited to haul trucks, material delivery trucks, and equipment delivery trucks. It shall also identify alternative safe routes and policies to maintain safety along bicycle and pedestrian routes during construction. Construction vehicle routes shall avoid local residential streets and avoid peak morning and evening commute hours to the***

maximum extent practicable. Staging locations, alternate detour routes, and construction vehicle routes shall avoid other active construction projects within 0.25 mile of the project construction sites to the maximum extent practicable.

Damage Repair: The TMP shall include the following requirements to minimize damage to the existing roadway network:

- *A list of precautionary measures to protect the existing roadway network, including but not limited to pavements, curbs, gutters, sidewalks, and drainage structures, shall be outlined. The construction contractor(s) shall be required to implement these measures throughout the duration of construction of the proposed sewer pipeline.*
- *The roadway network along the proposed sewer pipeline alignment(s) shall be surveyed prior to the start of project construction activities, and existing roadway conditions shall be summarized in a brief report.*
- *Any damage to the roadway network that occurs as a result of project construction activities shall be noted, and MSWD or its contractors shall repair all damage.*

Coordination with Emergency Services: The TMP shall include requirements to notify local emergency response providers, including relevant police and sheriff departments, ambulance services, and paramedic services at least one week prior to the start of work within public ROW if lane and/or road closures are required. To the extent practicable, the duration of disruptions/closures to roadways and critical access points for emergency services shall be minimized.

Coordination with Active Transportation Facilities: The TMP shall require coordination with owners/operators of any affected active transportation facilities to minimize the duration of disruptions/closures to bike paths, pedestrian trails, and adjacent access points.

Coordination with Riverside Transit Agency (RTA): If the proposed project affects access to existing transit stops, the TMP shall also include temporary, alternative transit stops and directional signage, as determined in coordination with RTA.

Coordination with Caltrans: If the proposed project requires lane and/or road closures of State highways or State highway ramps, the TMP shall require coordination with Caltrans to ensure the TMP conforms with Caltrans' Transportation Management Plan Guidelines.

Coordination with Nearby Construction Sites: The TMP shall identify all active construction projects within 0.25 mile of project construction sites and require coordination with the applicants and/or contractors of these projects during all phases of construction regarding the following:

- *All temporary lane and/or roadway closures shall be coordinated to limit overlap of roadway closures;*
- *All major deliveries and haul truck trips shall be coordinated to limit the occurrence of simultaneous deliveries and haul truck trips; and*

- ***MSWD, its contractor(s), or its representative(s) shall meet on a regular basis with the applicant(s), contractor(s) or their representative(s) of active construction projects within 0.25 mile of the project construction sites during construction to address any outstanding issues related to construction vehicles.***

Transportation Control and Safety: ***The TMP shall provide for roadway vehicle control measures including flag persons, warning signs, lights, barricades, cones, and/or detour routes to provide safe passage of vehicular, bicycle, and pedestrian circulation and access by emergency responders.***

Plan Approval: ***The TMP shall be reviewed and approved by the local agency with authority over construction within the public ROW for review and approval.***

WF-1 ***Prior to initiating construction of proposed sewer pipeline and laterals within public ROW, MSWD shall prepare and implement a traffic control plan that contains comprehensive strategies for maintaining emergency access during construction. Strategies shall include, but are not limited to, maintaining steel trench plates at the construction sites to restore access across open trenches, flag persons and related assets to manage the flow of traffic, and identification of alternate routing around construction zones, where necessary. In addition, police, fire, and other emergency service providers (local agencies, Caltrans, and other service providers) shall be notified of the timing, location, and duration of the construction activities and the location of detours and lane closures. MSWD shall ensure that the traffic control plan and other construction activities are consistent with the County of Riverside Emergency Operations Plan, and are reviewed and approved by the local agency with authority over construction within the public ROW.***

The construction-related impacts, although temporary, could potentially impair the implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan. Impacts would be potentially significant. Therefore, mitigation is necessary to minimize impacts. The implementation of **MMs TRAN-1 and WF-1** would require the preparation of a TMP with comprehensive strategies to reduce potential disruption to emergency evacuation or an emergency response plan during construction. Therefore, potential significant impacts to emergency access and evacuation during construction would be reduced to a less than significant level.

Following construction, the operation of the pipelines would not impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan as they would be located underground. Impacts related to an adopted emergency plan would be less than significant during operation.

g. *Less Than Significant With Mitigation Incorporated* – The proposed pipelines would be constructed primarily within paved roadway ROW, with some areas of the sewer pipeline located in undisturbed areas, as previously described. CAL FIRE designates most of the areas within the project area as being located within moderate fire hazard severity zones (FHSZs) within a Local Responsibility Area (LRA) due to the project's location within the City of Desert Hot Springs, Unincorporated Riverside County, and the City of Palm Springs, outside of higher fire risk areas in the San Bernardino and Little San Bernardino Mountains and Mount San Jacinto (**Figures IX-11 and IX-12**). However, as

there are areas within the northern portion of Area A that are designated as high and very high FHSZ within an SRA per CAL FIRE as demonstrated on **Figure IX-12**, there is a potential for facilities to be located within or near wildland areas with high fire risk.

The use of spark-producing construction machinery within a fire risk area could create hazardous fire conditions and expose construction workers to wildfire risks. Impacts would be potentially significant. **MM WF-2** would require fire reduction measures to be incorporated into the fire management plan/fuel modification plan for the proposed facility, and shall be implemented during construction and over the long-term for protection of the site to avoid potentially significant wildfire risks. Therefore, **MM WF-2** shall be implemented for pipelines, laterals, and septic abatement occurring within high and very high FHSZs, which is generally limited to Area A.

WF-2 ***Prior to construction of facilities located in areas designated as High or Very High FHSZs by CAL FIRE, fire hazard reduction measures shall be incorporated into a fire management plan/fuel modification plan for the proposed facility, and shall be implemented during construction and over the long-term for protection of the site. These measures shall address all staging areas, welding areas, or areas slated for development that are planned to use spark-producing equipment. These areas shall be cleared of dried vegetation or other material that could ignite. Any construction equipment that can include a spark arrestor shall be equipped with a spark arrestor in good working order. During the construction of the project facilities, all vehicles and crews working at the project site shall have access to functional fire extinguishers and related fire prevention equipment (such as emergency sand bags, etc.) at all times. In addition, construction crews shall have a spotter during welding activities to look out for potentially dangerous situations, including accidental sparks. This plan shall be reviewed by MSWD and provided to CAL FIRE for review and comment, where appropriate, and approved prior to construction within high and very high FHSZs and implemented once approved. The fire management plan shall also include sufficient defensible space or other measures at a facility site located in a high or very high FHSZ to minimize fire exposure and damage to a level acceptable to the implementing agency over the long-term.***

During operation, the proposed facilities would operate as sewage transmission lines belowground, and these facilities would not be constructed of flammable materials or involve any spark-producing activities. Thus, operation of the proposed sewer pipelines, laterals, and septic abatement activities would have a less than significant potential to expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires. Impacts would be less than significant.

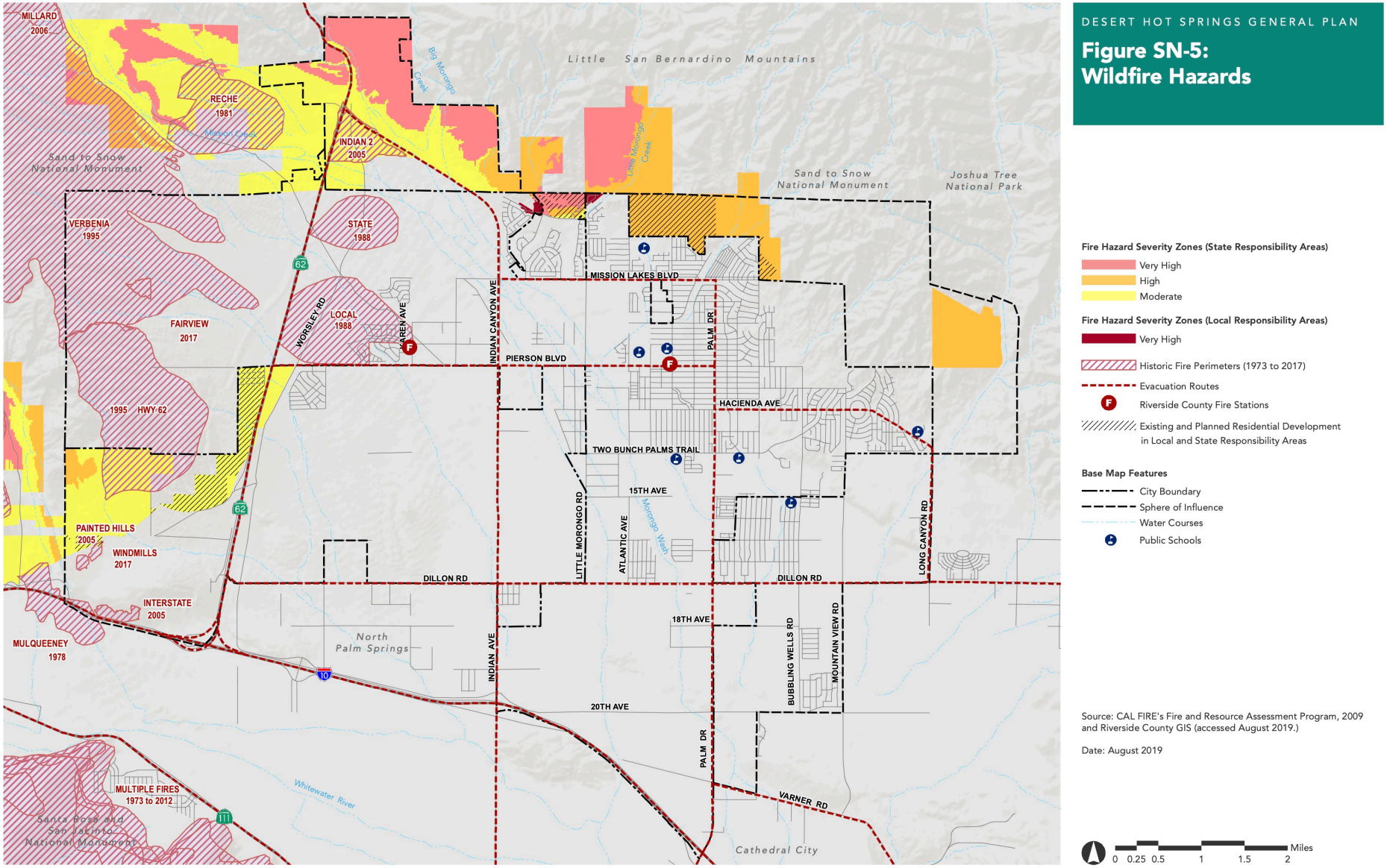

DESERT HOT SPRINGS GENERAL PLAN
Figure SN-5:
Wildfire Hazards
MILLARD 2006
RECHE 1981
INDIAN 2 2005
VERBENIA 1995
STATE 1988
LOCAL 1988
FAIRVIEW 2017
1995 HWY 62
PAINTED HILLS 2005
WINDMILLS 2017
INTERSTATE 2005
MULQUEENEY 1978
MULTIPLE FIRES 1973 to 2012
Little San Bernardino Mountains
Sand to Snow National Monument
Joshua Tree National Park
Big Morongo Creek
Little Morongo Creek
Mission Creek
Whitewater River
Santa Rosa and San Jacinto National Monument
North Palm Springs
Cathedral City
MISSION LAKES BLVD
PIERSON BLVD
HACIENDA AVE
TWO BUNCH PALMS TRAIL
15TH AVE
DILLON RD
18TH AVE
20TH AVE
VARNER RD
WORSLEY RD
KAREN AVE
INDIAN CANYON AVE
PALM DR
LITTLE MORONGO RD
ATLANTIC AVE
Morongo Wash
LONG CANYON RD
BUBBLING WELLS RD
MOUNTAIN VIEW RD
INDIAN AVE
Fire Hazard Severity Zones (State Responsibility Areas)
Very High
High
Moderate
Fire Hazard Severity Zones (Local Responsibility Areas)
Very High
Historic Fire Perimeters (1973 to 2017)
Evacuation Routes
Riverside County Fire Stations
Existing and Planned Residential Development in Local and State Responsibility Areas
Base Map Features
City Boundary
Sphere of Influence
Water Courses
Public Schools
Source: CAL FIRE's Fire and Resource Assessment Program, 2009 and Riverside County GIS (accessed August 2019.)
Date: August 2019
0 0.25 0.5 1 1.5 2 Miles

FIGURE IX-1

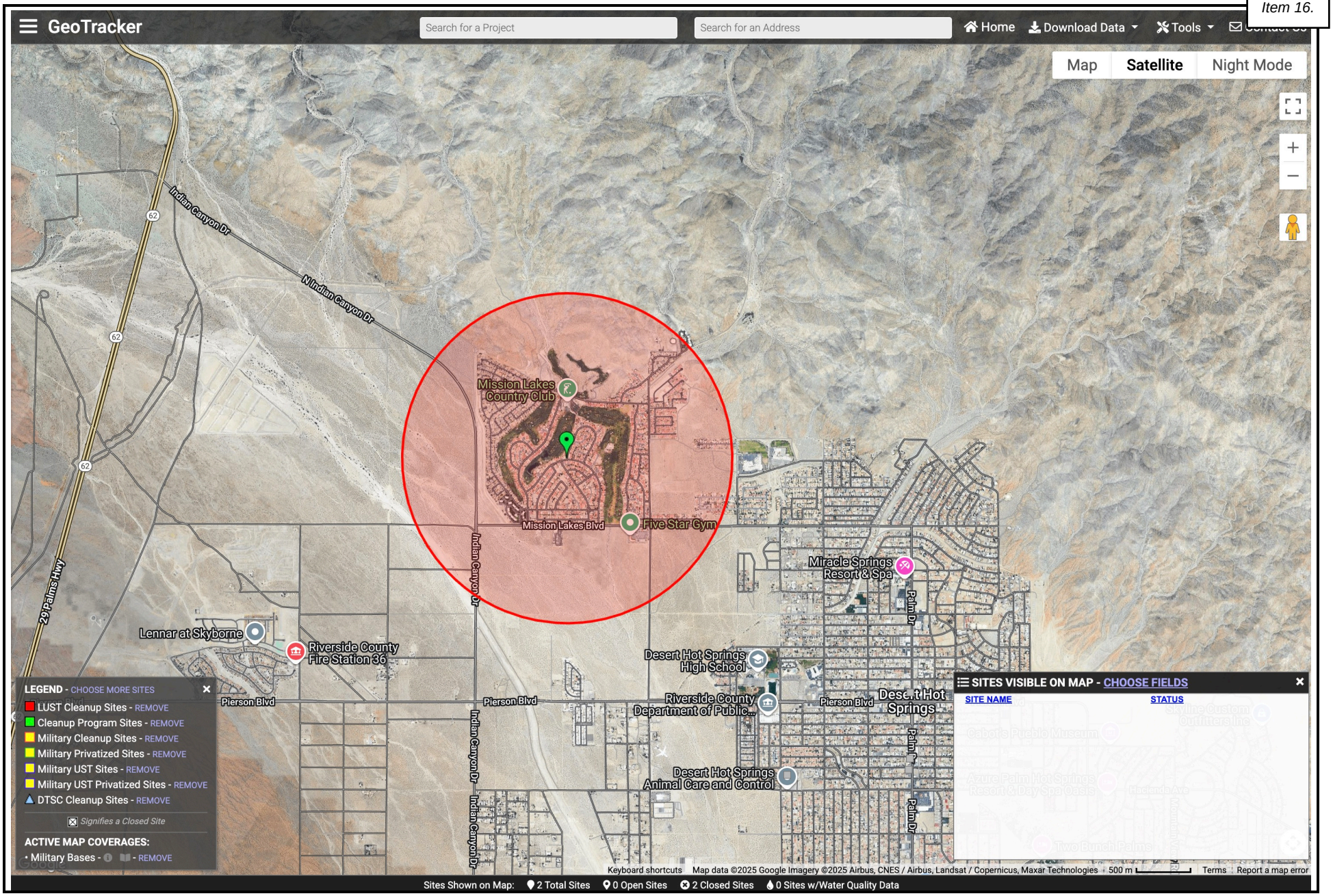

GeoTracker
Search for a Project
Search for an Address
Home
Download Data
Tools
Map
Satellite
Night Mode
Indian Canyon Dr
N Indian Canyon Dr
62
29 Palms Hwy
Mission Lakes Country Club
Mission Lakes Blvd
Five Star Gym
Miracle Springs Resort & Spa
Palm Dr
Lennar at Skyborne
Riverside County Fire Station 36
Desert Hot Springs High School
Pierson Blvd
Riverside County Department of Public...
Desert Hot Springs
Desert Hot Springs Animal Care and Control
LEGEND - CHOOSE MORE SITES
LUST Cleanup Sites - REMOVE
Cleanup Program Sites - REMOVE
Military Cleanup Sites - REMOVE
Military Privatized Sites - REMOVE
Military UST Sites - REMOVE
Military UST Privatized Sites - REMOVE
DTSC Cleanup Sites - REMOVE
Signifies a Closed Site
ACTIVE MAP COVERAGES:
Military Bases - REMOVE
SITES VISIBLE ON MAP - CHOOSE FIELDS
SITE NAME
STATUS
Keyboard shortcuts
Map data ©2025 Google Imagery ©2025 Airbus, CNES / Airbus, Landsat / Copernicus, Maxar Technologies
500 m
Terms
Report a map error
Sites Shown on Map: 2 Total Sites 0 Open Sites 2 Closed Sites 0 Sites w/Water Quality Data

FIGURE IX-2

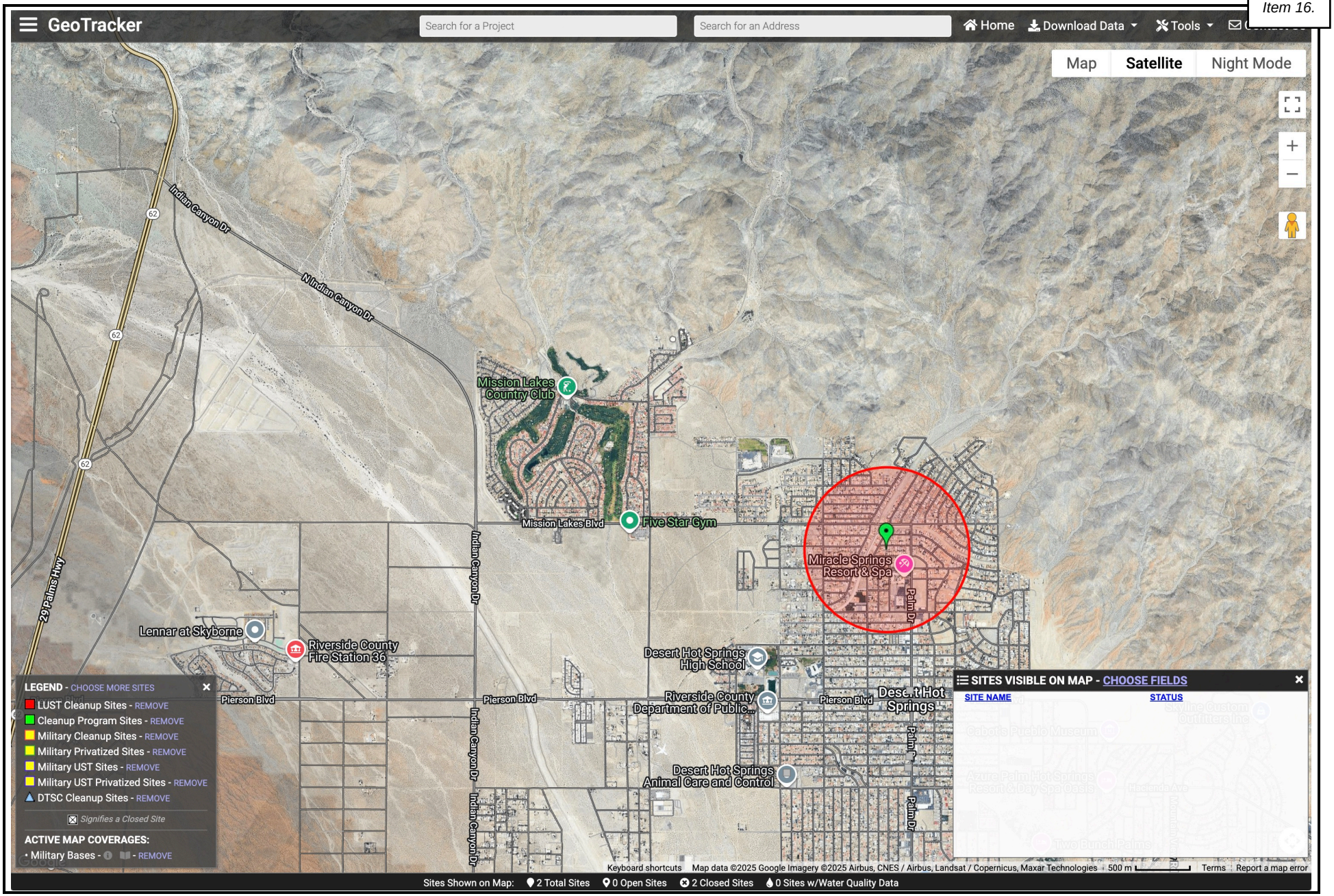


FIGURE IX-3

Tom Dodson & Associates
Environmental Consultants

Area D-3 GeoTracker

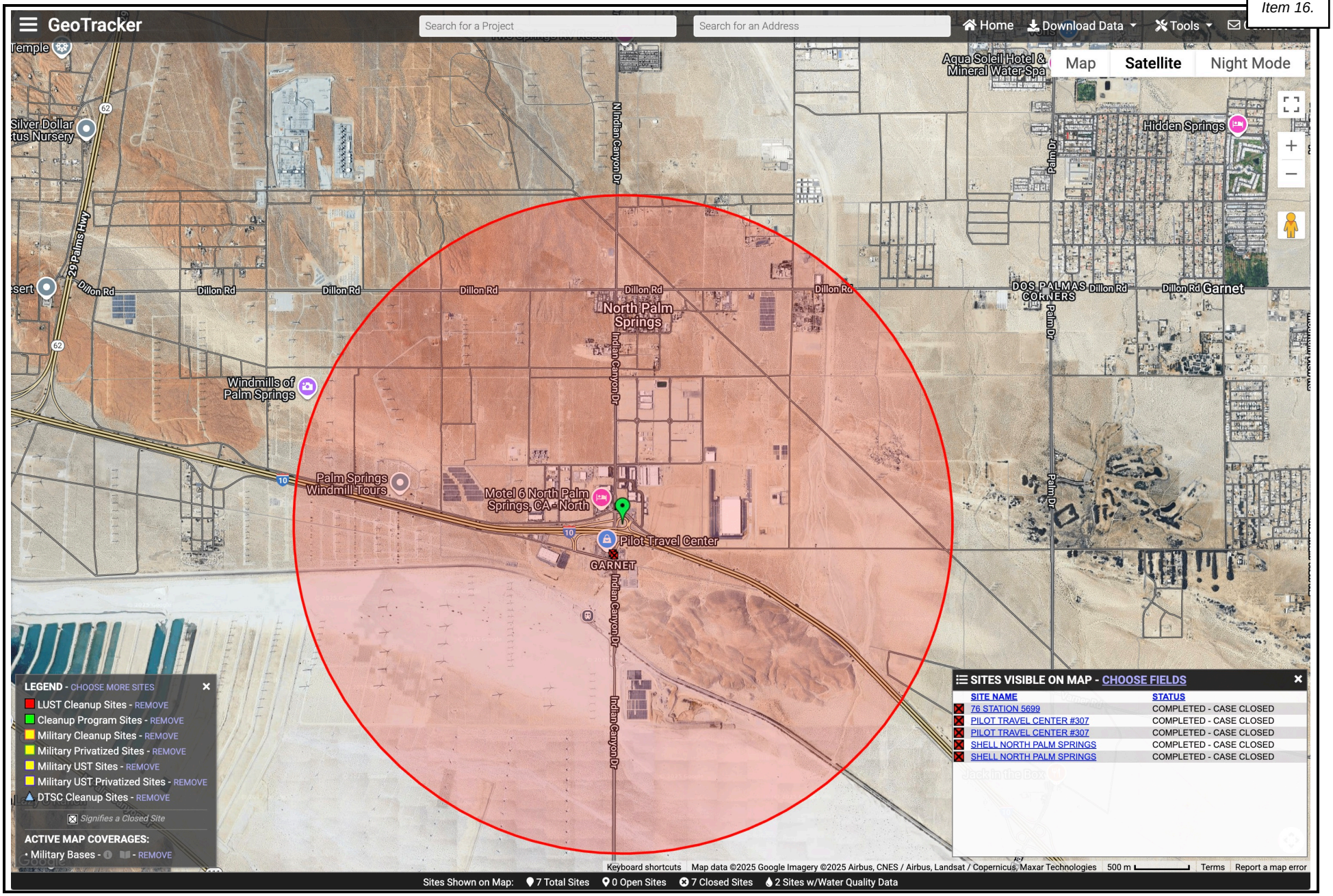

GeoTracker
Search for a Project
Search for an Address
Home
Download Data
Tools
Map
Satellite
Night Mode
Aqua Soleil Hotel & Mineral Water Spa
Hidden Springs
Silver Dollar Cactus Nursery
29 Palms Hwy
Dillon Rd
Indian Canyon Dr
Palm Dr
North Palm Springs
DOS PALMAS CORNERS
Garnet
Windmills of Palm Springs
Palm Springs Windmill Tours
Motel 6 North Palm Springs, CA - North
Pilot Travel Center
GARNET
LEGEND - CHOOSE MORE SITES
LUST Cleanup Sites - REMOVE
Cleanup Program Sites - REMOVE
Military Cleanup Sites - REMOVE
Military Privatized Sites - REMOVE
Military UST Sites - REMOVE
Military UST Privatized Sites - REMOVE
DTSC Cleanup Sites - REMOVE
Signifies a Closed Site
ACTIVE MAP COVERAGES:
• Military Bases - REMOVE
SITES VISIBLE ON MAP - CHOOSE FIELDS
SITE NAME
STATUS
76 STATION 5699
COMPLETED - CASE CLOSED
PILOT TRAVEL CENTER #307
COMPLETED - CASE CLOSED
PILOT TRAVEL CENTER #307
COMPLETED - CASE CLOSED
SHELL NORTH PALM SPRINGS
COMPLETED - CASE CLOSED
SHELL NORTH PALM SPRINGS
COMPLETED - CASE CLOSED
Keyboard shortcuts
Map data ©2025 Google Imagery ©2025 Airbus, CNES / Airbus, Landsat / Copernicus, Maxar Technologies
500 m
Terms
Report a map error
Sites Shown on Map:
7 Total Sites
0 Open Sites
7 Closed Sites
2 Sites w/Water Quality Data

FIGURE IX-4

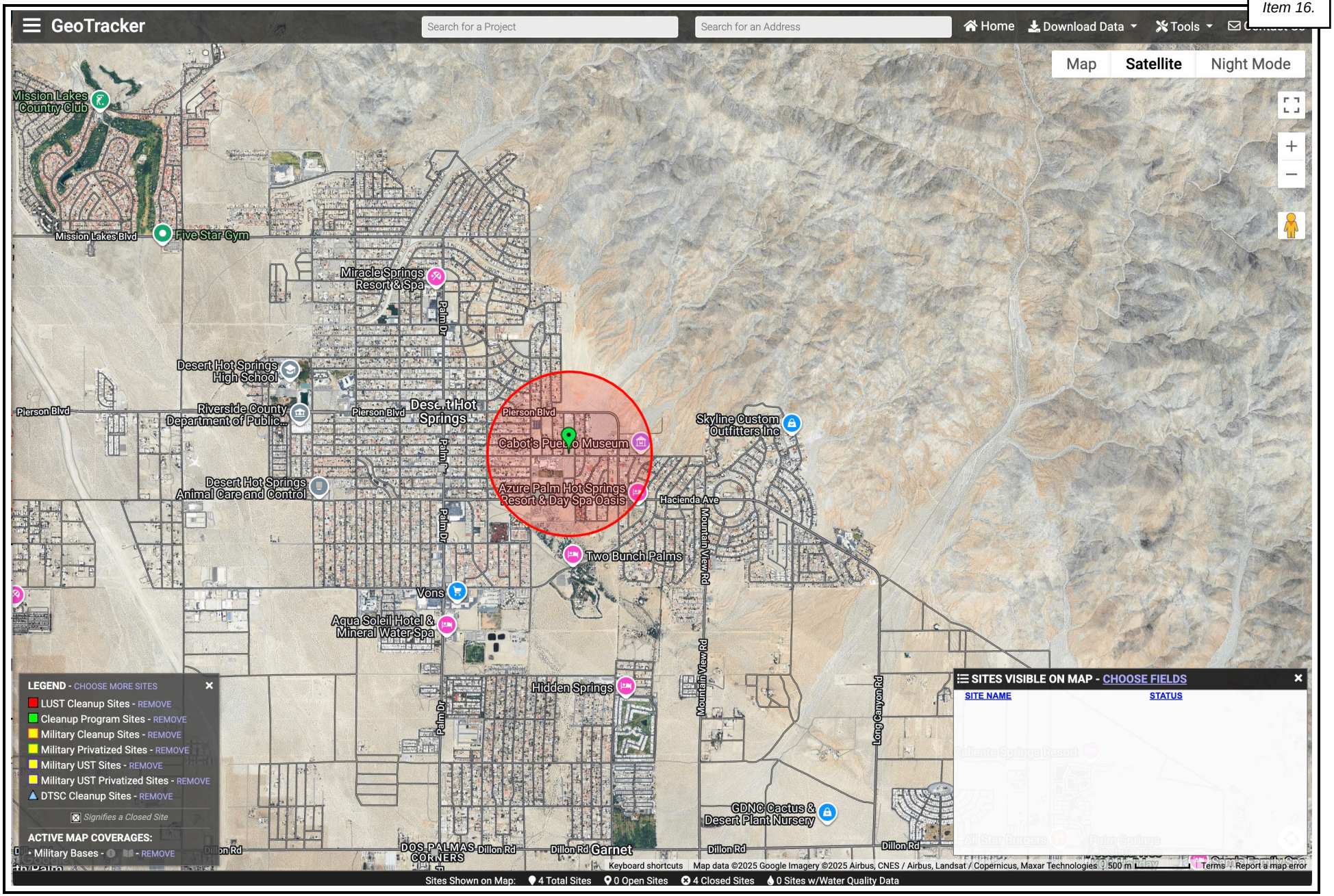


FIGURE IX-5

Tom Dodson & Associates
Environmental Consultants

Area G GeoTracker

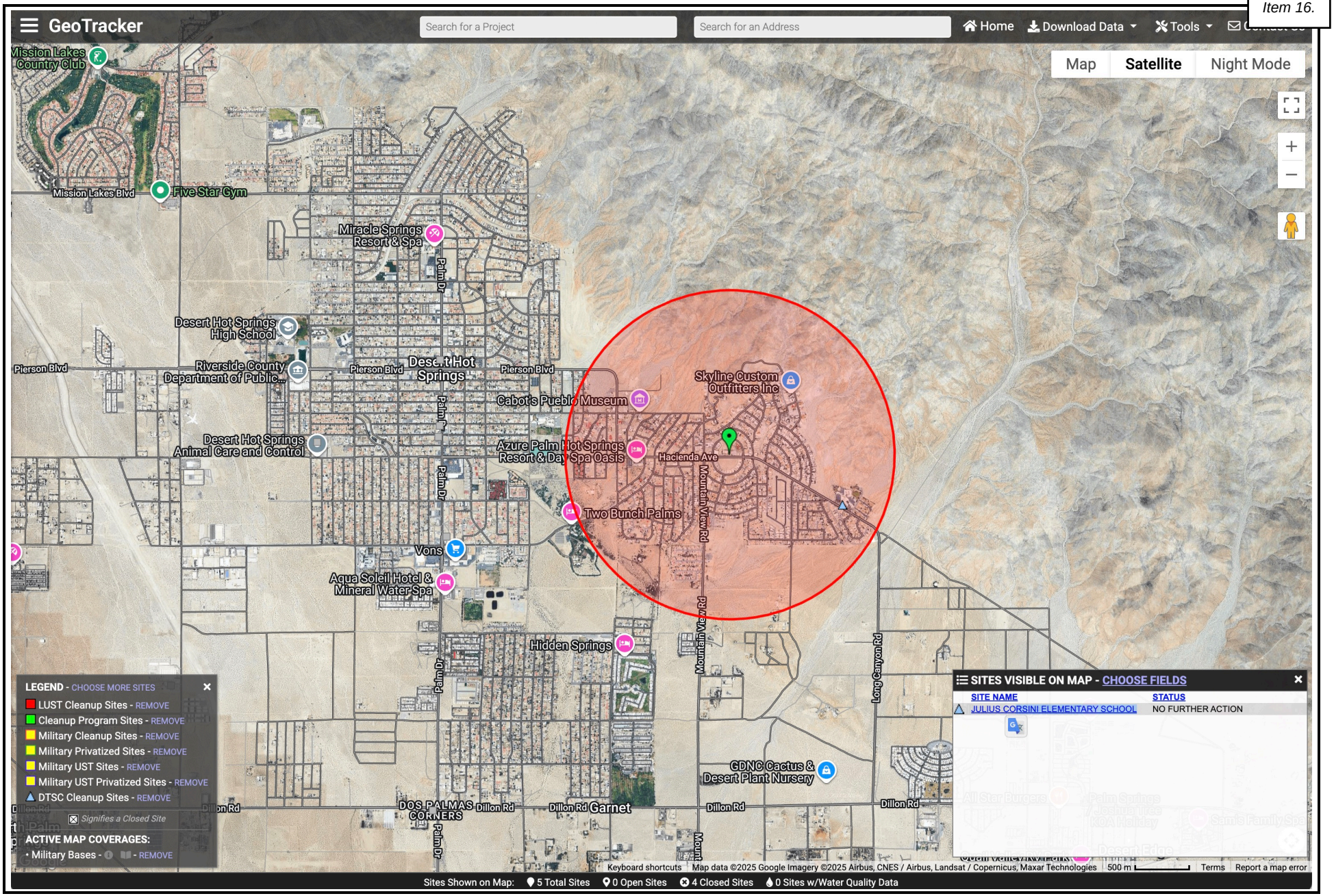
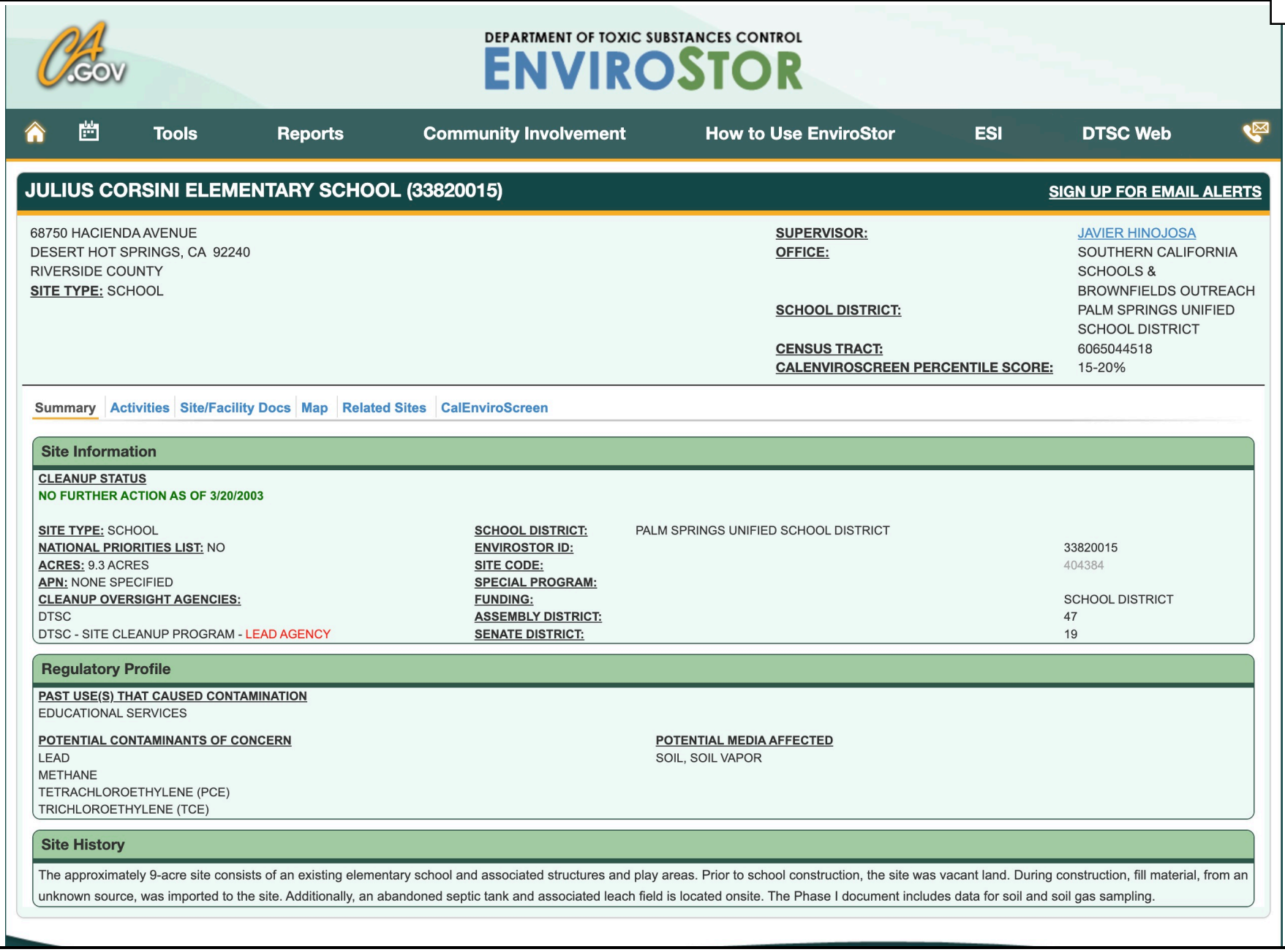

GeoTracker
Search for a Project
Search for an Address
Home
Download Data
Tools
Map
Satellite
Night Mode
Mission Lakes Country Club
Mission Lakes Blvd
Five Star Gym
Miracle Springs Resort & Spa
Palm Dr
Desert Hot Springs High School
Riverside County Department of Public...
Pierson Blvd
Desert Hot Springs
Cabot's Pueblo Museum
Skyline Custom Outfitters Inc
Desert Hot Springs Animal Care and Control
Azure Palm Hot Springs Resort & Day Spa Oasis
Hacienda Ave
Mountain View Rd
Two Bunch Palms
Vons
Aqua Soleil Hotel & Mineral Water Spa
Hidden Springs
Long Canyon Rd
GDNC Cactus & Desert Plant Nursery
DOS PALMAS CORNERS
Dillon Rd
Garnet
LEGEND - CHOOSE MORE SITES
LUST Cleanup Sites - REMOVE
Cleanup Program Sites - REMOVE
Military Cleanup Sites - REMOVE
Military Privatized Sites - REMOVE
Military UST Sites - REMOVE
Military UST Privatized Sites - REMOVE
DTSC Cleanup Sites - REMOVE
Signifies a Closed Site
ACTIVE MAP COVERAGES:
• Military Bases - REMOVE
SITES VISIBLE ON MAP - CHOOSE FIELDS
SITE NAME
STATUS
JULIUS CORSINI ELEMENTARY SCHOOL
NO FURTHER ACTION
Keyboard shortcuts
Map data ©2025 Google Imagery ©2025 Airbus, CNES / Airbus, Landsat / Copernicus, Maxar Technologies
500 m
Terms
Report a map error
Sites Shown on Map:
5 Total Sites
0 Open Sites
4 Closed Sites
0 Sites w/Water Quality Data

FIGURE IX-6



DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIROSTOR

Tools | Reports | Community Involvement | How to Use EnviroStor | ESI | DTSC Web

JULIUS CORSINI ELEMENTARY SCHOOL (33820015)

SIGN UP FOR EMAIL ALERTS

68750 HACIENDA AVENUE
DESERT HOT SPRINGS, CA 92240
RIVERSIDE COUNTY
SITE TYPE: SCHOOL

SUPERVISOR: JAVIER HINOJOSA
OFFICE: SOUTHERN CALIFORNIA SCHOOLS & BROWNFIELDS OUTREACH
SCHOOL DISTRICT: PALM SPRINGS UNIFIED SCHOOL DISTRICT
CENSUS TRACT: 6065044518
CALENVIROSCREEN PERCENTILE SCORE: 15-20%

Summary | Activities | Site/Facility Docs | Map | Related Sites | CalEnviroScreen

Site Information

CLEANUP STATUS
NO FURTHER ACTION AS OF 3/20/2003

SITE TYPE: SCHOOL
NATIONAL PRIORITIES LIST: NO
ACRES: 9.3 ACRES
APN: NONE SPECIFIED
CLEANUP OVERSIGHT AGENCIES:
DTSC
DTSC - SITE CLEANUP PROGRAM - LEAD AGENCY

SCHOOL DISTRICT: PALM SPRINGS UNIFIED SCHOOL DISTRICT
ENVIROSTOR ID: 33820015
SITE CODE: 404384
SPECIAL PROGRAM:
FUNDING: SCHOOL DISTRICT
ASSEMBLY DISTRICT: 47
SENATE DISTRICT: 19

Regulatory Profile

PAST USE(S) THAT CAUSED CONTAMINATION
EDUCATIONAL SERVICES

POTENTIAL CONTAMINANTS OF CONCERN
LEAD
METHANE
TETRACHLOROETHYLENE (PCE)
TRICHLOROETHYLENE (TCE)

POTENTIAL MEDIA AFFECTED
SOIL, SOIL VAPOR

Site History

The approximately 9-acre site consists of an existing elementary school and associated structures and play areas. Prior to school construction, the site was vacant land. During construction, fill material, from an unknown source, was imported to the site. Additionally, an abandoned septic tank and associated leach field is located onsite. The Phase I document includes data for soil and soil gas sampling.

FIGURE IX-7

STATE WATER RESOURCES CONTROL BOARD
GEOTRACKER

Tools | Reports | UST Case Closures | How to Use GeoTracker | ESI | Information

PILOT TRAVEL CENTER #307 (T0606525609) - (MAP)

SIGN UP FOR EMAIL ALERTS

6605 N INDIAN AVE
NORTH PALM SPRINGS, CA 92258
RIVERSIDE COUNTY
LUST CLEANUP SITE (INFO)
COMPLETED - CASE CLOSED AS OF 3/22/2004 - DEFINITION
PRINTABLE CASE SUMMARY / CSM REPORT

CLEANUP OVERSIGHT AGENCIES
RIVERSIDE COUNTY *(LEAD) - CASE #: 200219003*
COLORADO RIVER BASIN RWQCB (REGION 7) - *CASE #: 7T2258003*
CASE MANAGER: *Phan Le*

Summary | Cleanup Action Report | Regulatory Activities | Environmental Data (ESI) | Site Maps / Documents | Community Involvement | Related Cases

Regulatory Profile

PRINTABLE CASE SUMMARY

CLEANUP STATUS - DEFINITIONS
COMPLETED - CASE CLOSED AS OF 3/22/2004 - CLEANUP STATUS HISTORY

POTENTIAL CONTAMINANTS OF CONCERN
DIESEL

POTENTIAL MEDIA OF CONCERN
SOIL

FILE LOCATION
LOCAL AGENCY WAREHOUSE

DESIGNATED GROUNDWATER BENEFICIAL USE(S) - DEFINITIONS
MUN, AGR, IND

DWR GROUNDWATER SUB-BASIN NAME
Coachella Valley - Indio (7-021.01)

CALWATER WATERSHED NAME
Whitewater - Coachella - Mission Creek (719.42)

Post Closure Site Management Requirements

NOTIFY PRIOR TO CHANGE IN LAND USE

Future Land Use Reported at Closure

UNKNOWN

Site History

No site history available

FIGURE IX-8

STATE WATER RESOURCES CONTROL BOARD
GEOTRACKER

Tools | Reports | UST Case Closures | How to Use GeoTracker | ESI | Information

SHELL NORTH PALM SPRINGS (T10000000876) - (MAP)

SIGN UP FOR EMAIL ALERTS

20000 N INDIAN AVE
NORTH PALM SPRINGS, CA 92258
RIVERSIDE COUNTY
LUST CLEANUP SITE (INFO)
COMPLETED - CASE CLOSED AS OF 10/21/1999 - DEFINITION
PRINTABLE CASE SUMMARY / CSM REPORT

CLEANUP OVERSIGHT AGENCIES
RIVERSIDE COUNTY *(LEAD) - CASE #: 9914939*
CASE MANAGER: *Riverside County LOP*
COLORADO RIVER BASIN RWQCB (REGION 7) - *CASE #: 7T2258001*
COLORADO RIVER BASIN RWQCB (REGION 7) - *CASE #: 7T2258002*

Summary | Cleanup Action Report | Regulatory Activities | Environmental Data (ESI) | Site Maps / Documents | Community Involvement | Related Cases

Regulatory Profile

PRINTABLE CASE SUMMARY

CLEANUP STATUS - DEFINITIONS
COMPLETED - CASE CLOSED AS OF 10/21/1999 - CLEANUP STATUS HISTORY

POTENTIAL CONTAMINANTS OF CONCERN
NONE SPECIFIED

POTENTIAL MEDIA OF CONCERN
NONE SPECIFIED

FILE LOCATION
LOCAL AGENCY WAREHOUSE

DESIGNATED GROUNDWATER BENEFICIAL USE(S) - DEFINITIONS
MUN, AGR, IND

DWR GROUNDWATER SUB-BASIN NAME
Coachella Valley - Indio (7-021.01)

CALWATER WATERSHED NAME
Whitewater - Coachella - Mission Creek (719.42)

Site History

No site history available

FIGURE IX-9

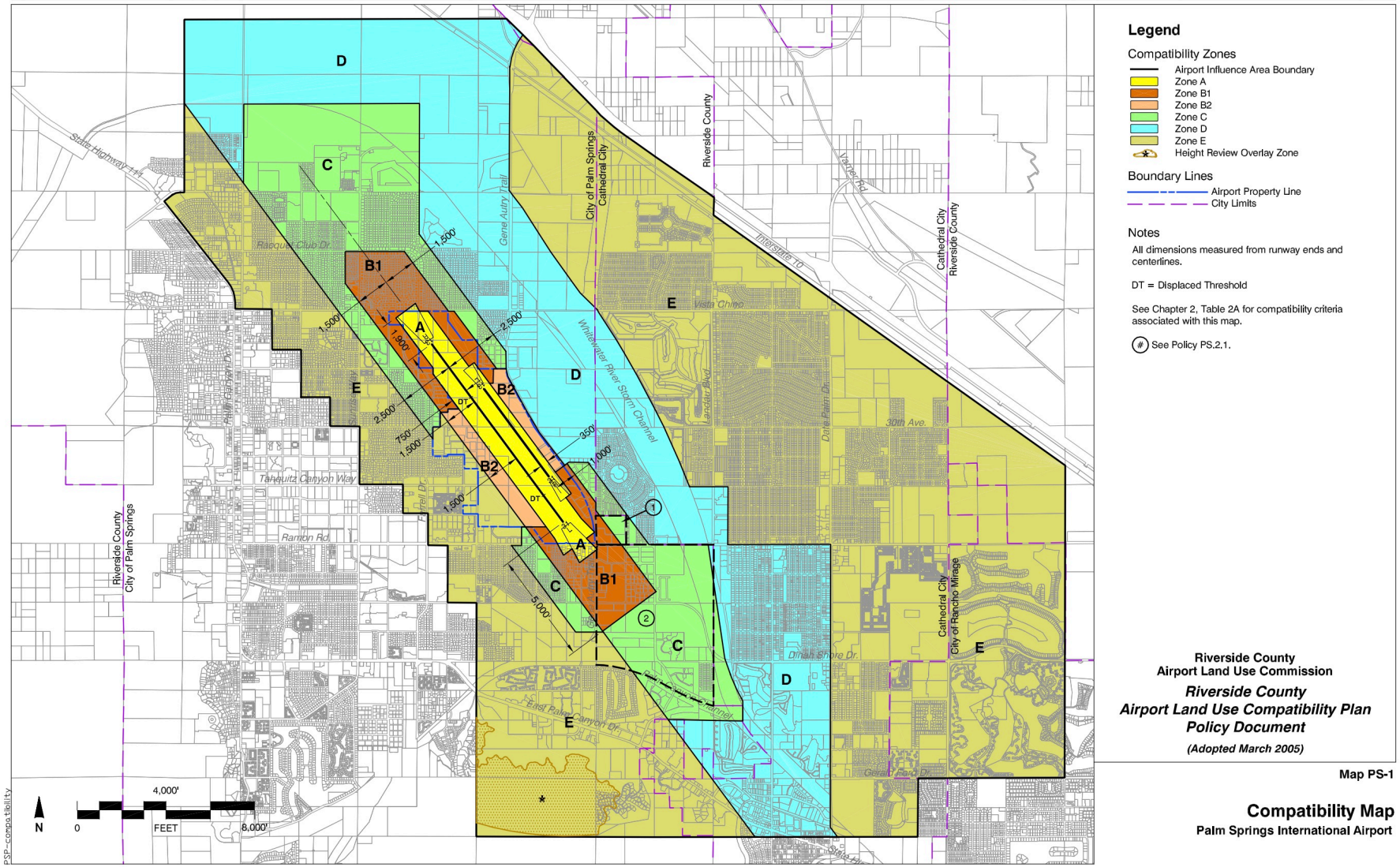


FIGURE IX-10

Tom Dodson & Associates
Environmental Consultants

Palm Springs International Airport Compatibility Map

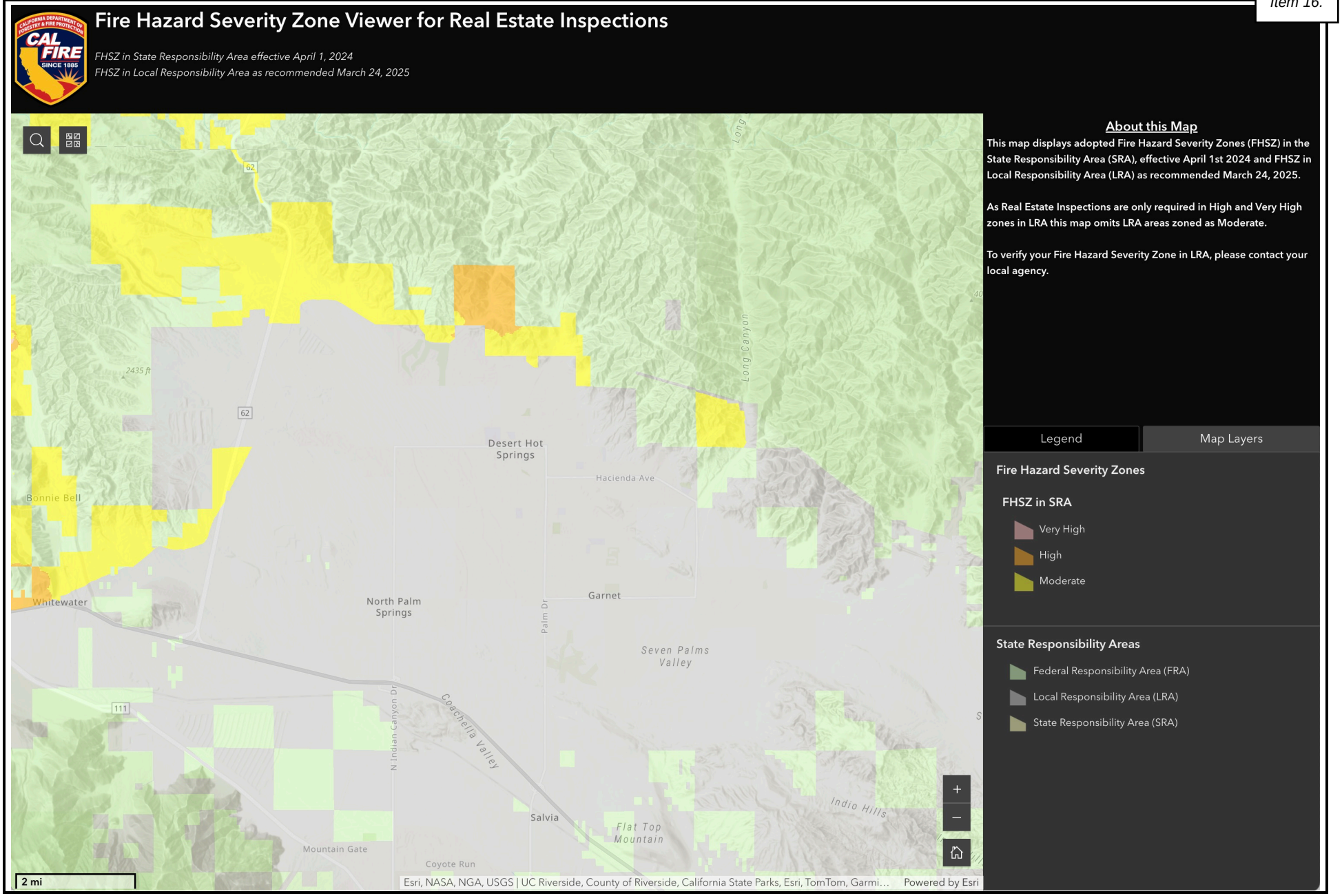


FIGURE IX-11

Tom Dodson & Associates
Environmental Consultants

CAL FIRE Fire Hazard Severity Zone Viewer State Responsibility Areas

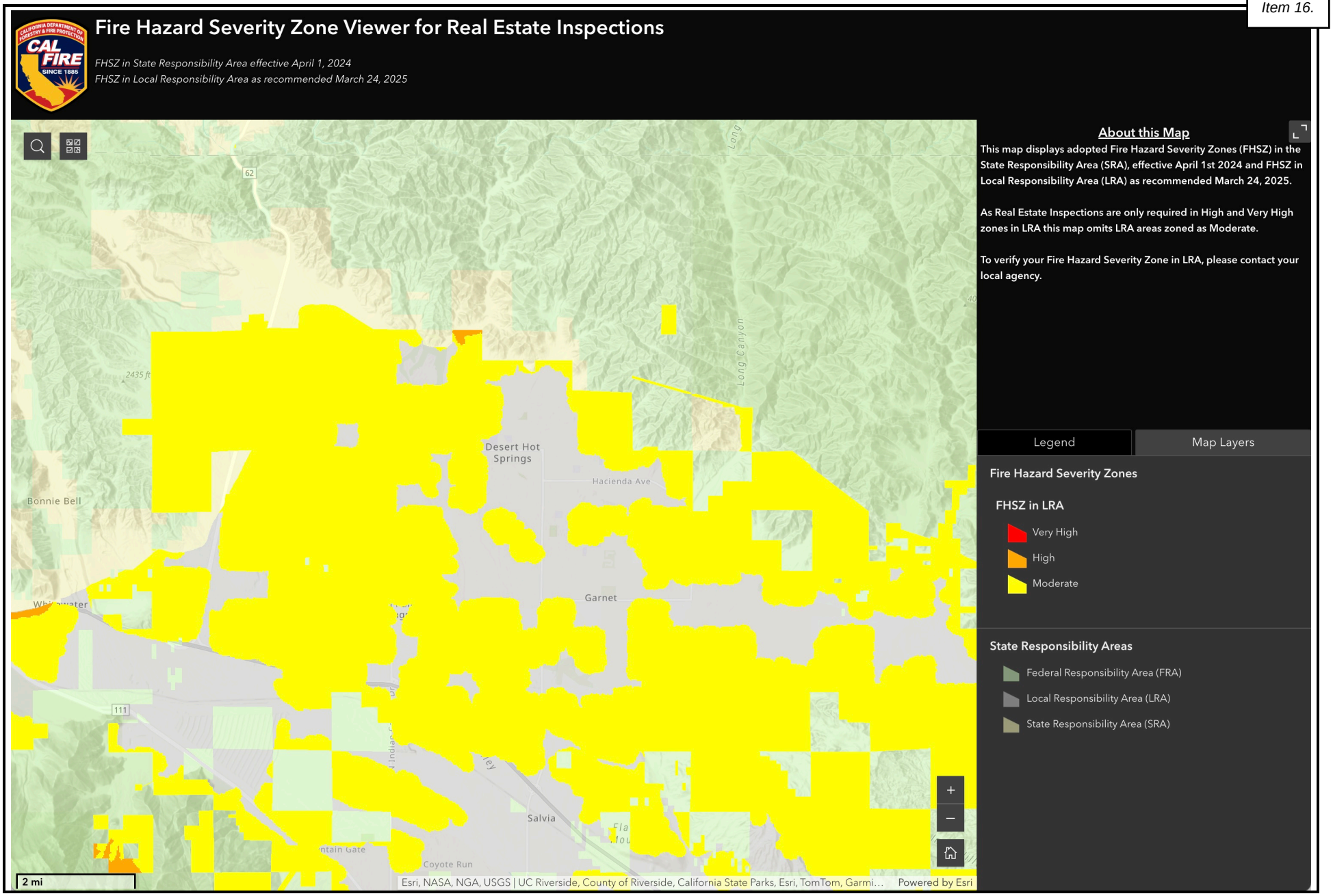


FIGURE IX-12

Tom Dodson & Associates
Environmental Consultants

CAL FIRE Fire Hazard Severity Zone Viewer Local Responsibility Areas

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact or Does Not Apply
X. HYDROLOGY AND WATER QUALITY: Would the project:				
a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality?	☐	☒	☐	☐
b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such the project may impede sustainable groundwater management of the basin?	☐	☐	☒	☐
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:				
(i) result in substantial erosion or siltation onsite or offsite?	☐	☐	☒	☐
(ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding onsite or offsite?	☐	☐	☒	☐
(iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?; or,	☐	☐	☒	☐
(iv) impede or redirect flood flows?	☐	☐	☒	☐
d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?	☐	☐	☒	☐
e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?	☐	☐	☐	☒

SUBSTANTIATION

Impact Analysis

a. *Less Than Significant With Mitigation Incorporated* – MSWD proposes to install 142,000 LF of 8-inch sewer pipeline within Areas A, D-3, G, H, I, J-2, K, and along the I-10 corridor to eliminate septic tanks that threaten contamination of potable groundwater supplies by expanding MSWD's wastewater collection system. This project also includes abating more than 2,040 septic tanks, and connecting 2,600 parcels to the District's sewer collection system, as well as installation of an estimated 2,500 new 4- to 6-inch service laterals. The proposed project will install the new sewer

pipeline and laterals belowground within existing roadways, and compacted dirt right-of-way. Three main sources of potential violation of water quality standards or waste discharge requirements are as follows: from generation of municipal wastewater; from stormwater runoff; and potential discharges of pollutants, such as accidental spills.

Construction of proposed project would require the use of heavy equipment and construction-related chemicals, such as fuels, oils, grease, solvents and paints that would be stored in limited quantities onsite. In the absence of proper controls, these construction activities could result in accidental spills or disposal of potentially harmful materials used during construction that could wash into and pollute surface waters or groundwater. Materials that could potentially contaminate the construction area from a spill or leak include diesel fuel, gasoline, lubrication oil, hydraulic fluid, antifreeze, transmission fluid, lubricating grease, and other fluids.

Because the proposed project would be implemented incrementally over time, there would not be a single construction discharge permitting process. Instead, as construction of each proposed Area identified in the Project Description is initiated, individual construction discharge permits would be acquired by MSWD. Where the anticipated total disturbance for a given Area undertaking would be greater than one acre, MSWD would be required to acquire coverage under the statewide Construction General Permit (CGP). By complying with the CGP and preparing and implementing a SWPPP. Without the coverage of the CGP and SWPPP, which is intended to protect surface water quality during construction, a significant impact could occur. However, compliance with the CGP is a mandatory requirement, and therefore, compliance thereof would be required as part of implementation of individual portions (areas) of the project in future. The SWPPP would include BMPs to control erosion, sedimentation, and hazardous materials release from construction sites into surface waters. Compliance with the SWPPP BMPs and other conditions of the CGP and SWPPP would ensure impacts to water quality are less than significant for development of portions of the project undertaken as a singular activity that are greater than one acre in size.

If anticipated disturbance is less than one acre, the CGP would not apply to construction. Instead, installation of portions of the project undertaken as a singular activity would be required to comply with minimum BMPs as specified by the Riverside County MS4 Permit, which would implement BMPs to provide erosion control, sediment control, and waste management strategies for construction sites. Without implementation of these BMPs, which would protect surface water quality during construction, a significant impact could occur. However, compliance with the Riverside County MS4 Permit is mandatory, and therefore, compliance thereof would be required as part of implementation of future individual projects under this proposed GQPP Septic to Sewer Project umbrella. Adherence to these conditions would ensure that potential water quality degradation associated with construction activities on sites less than one acre would be minimized to less than significant levels. Through compliance with the Riverside County MS4 Permit for projects under one acre during construction, impacts would be less than significant.

While the majority of the impacts to surface water quality can be minimized through compliance with mandatory regulations, it is imperative that such regulations are reinforced through the implementation of specific mitigation measures designed to ensure that full compliance with these regulations is achieved by each future proposed GQPP Septic to Sewer Project umbrella, thereby avoiding violations to surface water quality standards. Therefore, the following mitigation measures shall be implemented to prevent any violation of any water quality standards or waste discharge

requirements or otherwise substantially degrading surface or groundwater quality.

HYD-1 ***Prior to the commencement of construction of any individual project under this proposed GQPP Septic to Sewer Project umbrella that will disturb less than one acre (i.e., that is not subject to the California Construction Stormwater General Permit), the Implementing Agency shall require implementation of and construction contractor(s) shall select best management practices (BMPs) to achieve a reduction in pollutants from stormwater discharge to the maximum extent practicable during construction, and to control urban runoff after each individual project under this proposed GQPP Septic to Sewer Project umbrella is in operation. Examples of BMP(s) that would achieve a reduction in pollutants include, but are not limited to:***

- ***The use of silt fences or coir rolls;***
- ***The use of temporary stormwater desilting or retention basins;***
- ***The use of water bars to reduce the velocity of stormwater runoff;***
- ***The use of wheel washers on construction equipment leaving the site;***
- ***The washing of silt from public roads at the access point to the site to prevent the tracking of silt and other pollutants from the site onto public roads;***
- ***The storage of excavated material shall be kept to the minimum necessary to efficiently perform the construction activities required. Excavated or stockpiled material shall not be stored in water courses or other areas subject to the flow of surface water; and***
- ***Where feasible, stockpiled material shall be covered with waterproof material during rain events to control erosion of soil from the stockpiles.***

MM HYD-1 would require implementation of BMPs for projects of less than one acre in size that would be comparable to the requirements of the CGP and SWPPP, which are required for larger projects. This mitigation measure would further ensure that no water quality standards are violated through targeted stormwater pollution control.

Once constructed, the pipelines would operate belowground, and would have no potential to violate water quality standards or waste discharge requirements. Therefore, with no anticipated operational impacts or substantial change in the environment from implementation of the proposed project, implementation of these mandatory Plans and their BMPs, as well as **MM HYD-1** above, will prevent a violation of any water quality standards or waste discharge.

b. *Less Than Significant Impact* – The project would be installed within the Coachella Valley Groundwater Basin (**Figure X-1**). The project does not propose the installation of any water wells that would directly extract groundwater. The project would recompact or repave the roadways and pipeline alignments proposed for pipeline installation. Further, septic abatement would be carried out and would not result in greater impervious area than that which exists at present. Construction would require up to 5,000 gallons of potable water each day for a maximum of about 6,469 working days, which equates to the installation of the project requiring up to 3,234,500 gallons of water per year (9.9-acre feet per year) during construction. This amount is considered nominal when compared to the availability of supply from the project proponent, MSWD based on a review of the 2020 Coachella Valley Regional Urban Water Management Plan (UWMP). Once the sewer pipelines and laterals have been installed, and once the septic systems have been abated, it is not anticipated that the project would substantially interfere with groundwater recharge as the aboveground surfaces

will be returned to their original condition. As the aboveground drainage patterns and impervious areas would be maintained, and as the project does not propose to extract groundwater from the underlying groundwater basin, it is not anticipated that the project would decrease groundwater supplies. Further, the purpose of the proposed project is to protect groundwater quality from degradation by discharges from septic tank leach-fields. Thus, the project's purpose would result in furtherance of continued sustainable groundwater management of the basin. Therefore, the project is not anticipated to substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level. Therefore, impacts under this issue are considered less than significant and no mitigation is required.

c.

(i). *Less Than Significant With Mitigation Incorporated* – The proposed installation of sewer pipelines and laterals, and septic abatement could alter the existing drainage patterns of the aboveground drainage patterns. Development of sewer pipelines and laterals, and septic abatement would result in minimal changes in the aboveground drainage pattern once installed as the ground surfaces will be returned to their original or better condition and no operational impact would occur. However, the sewer pipeline and lateral alignments may traverse through compacted dirt easements and ROW, and the septic abatement would occur within residential property that may or may not be covered with landscaping, which may pose a greater potential to significantly alter the drainage pattern of the project footprint. The construction of proposed sewer pipeline and lateral alignments would require activities such as pavement breaking, trenching, drilling, excavation and demolition, which would temporarily alter each site's existing ground surface and drainage patterns. For projects that are greater than one acre in size, compliance with the CGP, SWPPP, or the Riverside County MS4 Permit (WQMP), where applicable, would be required. Each of these permits and plans would require the implementation of BMPs that manage overland runoff from construction sites and establish permanent drainage pathways to stabilized outlets. Through compliance with conditions of required permits governing storm water runoff from construction sites greater than one acre in size, potential onsite and offsite erosion would be reduced and discharges from construction sites would not exceed the capacity of existing storm water drainage systems. Impacts would be less than significant.

For future individual projects under this proposed GQPP Septic to Sewer Project umbrella, if anticipated disturbance is less than one acre, the CGP would not apply to construction. Mitigation (**MM HYD-1**) is necessary to enforce BMPs is provided below to minimize potentially significant impacts at sites that are less than an acre and are therefore not subject to the CGP or SWPPP. **MM HYD-1** would require implementation of BMPs for projects of less than one acre in size that would be comparable to the requirements of the CGP and SWPPP, which are required for larger projects, thereby avoiding a potentially significant impact under this issue. Each of these permits and plans would require the implementation of BMPs that manage overland runoff from construction sites and establish permanent drainage pathways to stabilized outlets. With implementation of mitigation, BMPs and compliance with conditions of required permits governing storm water runoff from construction sites, potential onsite and offsite erosion would be reduced and discharges from construction sites would not exceed the capacity of existing storm water drainage systems. Impacts would be less than significant.

Development of sewer pipelines and laterals, and septic abatement would result in minimal changes in the aboveground drainage pattern once installed, as the aboveground area will be returned to

their original or better condition, which would minimize the potential for substantial erosion or siltation onsite or offsite. Operational impacts would be less than significant. No additional mitigation is required.

c

(ii). *Less Than Significant With Mitigation Incorporated* – The proposed installation of sewer pipelines and laterals, and septic abatement could alter the existing aboveground drainage patterns. Development of sewer pipelines and laterals, and septic abatement would result in minimal changes in the aboveground drainage pattern once installed as the ground surfaces will be returned to their original or better condition and no operational impact would occur. However, the sewer pipeline and lateral alignments may traverse through compacted dirt easements and ROW, and the septic abatement would occur within residential property that may or may not be covered with landscaping, which may pose a greater potential to significantly alter the drainage pattern of the project footprint. The construction of proposed sewer pipelines and laterals, and septic abatement would require activities such as pavement breaking, ditching, drilling, excavation and demolition, which would temporarily alter each site's existing ground surface and drainage patterns. For projects that are greater than one acre in size, compliance with the CGP, SWPPP, or Riverside County MS4 Permits (WQMP), where applicable, would be required. Each of these permits and plans would require the implementation of BMPs that manage overland runoff from construction sites and establish permanent drainage pathways to stabilized outlets. Through compliance with conditions of required permits governing storm water runoff from construction sites greater than one acre in size, potential on- or off-site flooding would be minimized to a less than significant level.

For future individual projects under this proposed GQPP Septic to Sewer Project umbrella, if anticipated disturbance is less than one acre, the CGP would not apply to construction. Mitigation (**MM HYD-1**) is necessary to enforce BMPs is provided below to minimize potentially significant impacts at sites that are less than an acre and are therefore not subject to the CGP or SWPPP. **MM HYD-1** would require implementation of BMPs for projects of less than one acre in size that would be comparable to the requirements of the CGP and SWPPP, which are required for larger projects, thereby avoiding a potentially significant impact under this issue. This measure would control urban runoff and thereby reduce potential on- and off-site flooding. Each of these permits and plans would require the implementation of BMPs that manage overland runoff from construction sites and establish permanent drainage pathways to stabilized outlets. With implementation of mitigation and BMPs, compliance with conditions of required permits governing storm water runoff from construction sites, and retention of runoff on site where feasible, the potential for on- or off-site flooding would be reduced to less than significant levels and discharges from construction sites would not exceed the capacity of existing storm water drainage systems. Impacts would be less than significant with mitigation incorporated.

Development of sewer pipelines and laterals, and septic abatement would result in minimal changes in the aboveground drainage pattern once installed, as the aboveground area will be returned to their original or better condition, which would minimize the potential for flooding on- or off-site. Operational impacts would be less than significant. No additional mitigation is required.

c

(iii). *Less Than Significant With Mitigation Incorporated* – The proposed installation of sewer pipelines and laterals, and septic abatement could alter the existing aboveground drainage patterns. Development of sewer pipelines and laterals, and septic abatement would result in minimal changes in the aboveground drainage pattern once installed as the ground surface will be returned to their

original or better condition and no operational impact would occur. However, the sewer pipeline and lateral alignments may traverse through compacted dirt easements and ROW, and the septic abatement would occur within residential property that may or may not be covered with landscaping, which may pose a greater potential to significantly alter the drainage pattern of the project footprint. The construction of proposed sewer pipelines and laterals, and septic abatement would require activities such as pavement breaking, trenching, drilling, excavation and demolition, which would temporarily alter each site's existing ground surface and drainage patterns. For projects that are greater than one acre in size, compliance with the CGP, SWPPP, or Riverside County MS4 Permits (WQMP), where applicable, would be required. Each of these permits and plans would require the implementation of BMPs that manage overland runoff from construction sites and establish permanent drainage pathways to stabilized outlets. Through compliance with conditions of required permits governing storm water runoff from construction sites that are greater than one acre in size, potential increase in the rate or amount of surface runoff in a manner which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff would be reduced and discharges from construction sites would not exceed the capacity of existing storm water drainage systems. Impacts would be less than significant.

For future individual projects under this proposed GQPP Septic to Sewer Project umbrella, if anticipated disturbance is less than one acre, the CGP would not apply to construction. Mitigation (**MM HYD-1**) is necessary to enforce BMPs is provided below to minimize potentially significant impacts at sites that are less than an acre and are therefore not subject to the CGP or SWPPP. **MM HYD-1** would require implementation of BMPs for projects of less than one acre in size that would be comparable to the requirements of the CGP and SWPPP, which are required for larger projects, thereby avoiding a potentially significant impact under this issue. This measure would control urban runoff and thereby reduce potential on- and off-site flooding. Each of these permits and plans would require the implementation of BMPs that manage overland runoff from construction sites and establish permanent drainage pathways to stabilized outlets. With implementation of mitigation and BMPs, compliance with conditions of required permits governing storm water runoff from construction sites, and retention of runoff on site where feasible, the potential to create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff would be reduced to less than significant levels and discharges from construction sites would not exceed the capacity of existing storm water drainage systems. Impacts would be less than significant through the implementation of mitigation.

Development of sewer pipelines and laterals, and septic abatement would result in minimal changes in the aboveground drainage pattern once installed as the aboveground surfaces will be returned to their original or better condition, which would minimize the potential to create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff. Operational impacts would be less than significant. No additional mitigation is required.

c

(iv). *Less Than Significant With Mitigation Incorporated* – According to the City of Desert Hot Springs General Plan Flood Hazard Map (**Figure X-2**), the proposed project traverses through various portions of the City that contain flood hazards. The majority of the project area is located within Zone X (areas of 0.2% annual change flood (500-year flood and areas of 1% annual chance flood

with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual flood chance), with only limited areas that are not located within flood hazard zones (portions of Area I-10 and portions of area D-3). Further, there are also limited areas within the project footprint that are located within Zone A (Area A, Area I-10), and Zone AO (Area A, Area G, and Area K), which are within the 1% annual flood (100-year flood). The Federal Emergency Management Agency (FEMA) Flood Insurance Rate Maps (FIRM) Panels for the project footprint include 06065C0885G, 06065C0905G, and 06065C0895G are shown on **Figures X-3 through X-5**, and demonstrate further details on these flood zones. The construction activities associated with subsurface facilities, such as pipelines, could temporarily impact flows and would require coordination with Riverside County Flood Control and Water Conservation District and other applicable regulatory agencies before implementation if proposed facilities cross or are installed within jurisdictional waters or adjacent to flood control channels and easements. However, all other impacts would be the same as those discussed under questions c(i), c(ii), and c(iii).

The construction of proposed sewer pipelines and laterals, and septic abatement would require activities such as pavement breaking, ditching, drilling, excavation and demolition, which would temporarily alter each site's existing ground surface and drainage patterns. For projects that are greater than one acre in size, compliance with the CGP, SWPPP, or Riverside County MS4 Permits (WQMP), where applicable, would be required. Each of these permits and plans would require the implementation of BMPs that manage overland runoff from construction sites and establish permanent drainage pathways to stabilized outlets. Through compliance with conditions of required permits governing storm water runoff from construction sites that are greater than one acre in size, the potential for exceeding the capacity of local stormwater drainage systems and thereby impeding or redirecting flows would not exceed the capacity of existing storm water drainage systems. Impacts would be less than significant.

For future individual projects under this proposed GQPP Septic to Sewer Project umbrella, if anticipated disturbance is less than one acre, the CGP would not apply to construction. Mitigation (**MM HYD-1**) is necessary to enforce BMPs is provided below to minimize potentially significant impacts at sites that are less than an acre and are therefore not subject to the CGP or SWPPP. **MM HYD-1** would require implementation of BMPs for projects of less than one acre in size that would be comparable to the requirements of the CGP and SWPPP, which are required for larger projects, thereby avoiding a potentially significant impact under this issue. This measure would control urban runoff and thereby reduce potential on- and off-site flooding. Each of these permits and plans would require the implementation of BMPs that manage overland runoff from construction sites and establish permanent drainage pathways to stabilized outlets. With implementation of mitigation and BMPs, compliance with conditions of required permits governing storm water runoff from construction sites, compliance with conditions of required permits governing storm water runoff from construction sites, and retention of runoff on site where feasible, the potential to impede or redirect flood flows would be reduced to less than significant levels and discharges from construction sites would not exceed the capacity of existing storm water drainage systems. Impacts would be less than significant with the implementation of mitigation.

Development of sewer pipelines and laterals, and septic abatement would result in minimal changes in the aboveground drainage pattern once installed as the aboveground surfaces will be returned to their original or better condition, which would minimize the potential to create or contribute runoff water which would minimize the potential to impede or redirect flood flows. Operational impacts

would be less than significant.

d. *Less Than Significant Impact* – As stated above under issue X(c[iv]), the proposed project is located within the City of Desert Hot Springs, City of Palm Springs, and Unincorporated Riverside County. As shown on the City of Desert Hot Springs General Plan Flood Hazard Map (**Figure X-2**), the proposed project traverses through various portions of the City that contain flood hazards. The majority of the project area is located within Zone X (areas of 0.2% annual change flood (500-year flood and areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual flood chance), with only limited areas that are not located within flood hazard zones (portions of Area I-10 and portions of area D-3). Further, there are also limited areas within the project footprint that are located within Zone A (Area A, Area I-10), and Zone AO (Area A, Area G, and Area K), which are within the 1% annual flood (100-year flood). The FEMA FIRM Panels for the project footprint include 06065C0885G, 06065C0905G, and 06065C0895G are shown on **Figures X-3 through X-5**, and demonstrate further details on these flood zones. The project site is not located near any large bodies of water, so impacts associated with seiche or tsunami cannot occur.

Compliance with the CGP, SWPPP, or Riverside County MS4 Permits (WQMP), where applicable, would be required. Each of these permits and plans would require the implementation of BMPs that manage overland runoff from construction sites and establish permanent drainage pathways to stabilized outlets, thereby minimizing the risk of release of pollutants due to flooding for projects undertaken that are larger than 1 acre in site. Thus, impacts would be less than significant.

For future individual projects under this proposed GQPP Septic to Sewer Project umbrella, if anticipated disturbance is less than one acre, the CGP would not apply to construction. Mitigation (**MM HYD-1**) is necessary to enforce BMPs is provided below to minimize potentially significant impacts at sites that are less than an acre and are therefore not subject to the CGP or SWPPP. **MM HYD-1** would require implementation of BMPs for projects of less than one acre in size that would be comparable to the requirements of the CGP and SWPPP, which are required for larger projects, thereby avoiding a potentially significant impact under this issue. This measure would control urban runoff and thereby reduce potential on- and off-site flooding. Each of these permits and plans would require the implementation of BMPs that manage overland runoff from construction sites and establish permanent drainage pathways to stabilized outlets. With implementation of mitigation and BMPs, compliance with conditions of required permits governing storm water runoff from construction sites, compliance with conditions of required permits governing storm water runoff from construction sites, and retention of runoff on site where feasible, the potential to risk of release of pollutants during construction due to flooding on or offsite is less than significant with the implementation of mitigation.

The sewer pipelines and laterals, and septic abatement would remain located belowground once installed; underground pipelines within floodplains are common and are often constructed further underground to avoid future negative impacts in the event of flood or inundation events. No housing or structures are proposed as part of this sewer pipeline and lateral installation and septic abatement project. Therefore, given that pipelines, laterals, and septic abatement would not generally be susceptible to significant adverse effects associated with flooding, and though damage to these facilities can occur, a pipeline/lateral can be repaired and placed back into operation with no loss of human life. Additionally, once constructed, the roadways, easements, and access roads within which

the pipeline will be installed will be returned to their original condition, as will the surface aboveground the abated septic systems, and therefore, the project would not risk release of pollutants due to project inundation from flooding or seiche during operation. Thus, impacts would be less than significant.

e. *Less Than Significant Impact* – The proposed project is located within the Coachella Valley Groundwater Basin. The Indio and Mission Creek Subbasins have been designated as medium-priority, and the Desert Hot Springs Subbasin has been designated as very low-priority, by the DWR.[6] The Sustainable Groundwater Management Act (SGMA) "requires governments and water agencies of high and medium priority basins to halt overdraft and bring groundwater basins into balanced levels of pumping and recharge. Under SGMA, these basins should reach sustainability within 20 years of implementing their sustainability plans. For critically over-drafted basins, that will be 2040. For the remaining high and medium priority basins, 2042 is the deadline."[7] The Coachella Valley Water District (CVWD) has been designated an "exclusive" Groundwater Sustainability Agency (GSA) over its service area by the California Department of Water Resources (DWR) in the Indio Subbasin. Desert Water Agency (DWA), Coachella Water Authority (CWA), and Indio Water Authority (IWA), were also designated GSAs in the Indio Subbasin over their respective service areas. The four agencies are working collaboratively to implement the Sustainable Groundwater Management Act (SGMA) in the Indio Subbasin. The Indio Subbasin GSAs prepared the 2022 Indio Subbasin Water Management Plan Update (2022 Alternative Plan Update). The GSAs adopted the 2022 Alternative Plan Update following a public hearing on December 7, 2021 and submitted it to DWR on December 29, 2021.

Further, the Desert Hot Springs Subbasin is considered very low priority, and as a result, no conflict or obstruction of a water quality control plan or sustainable groundwater management plan is anticipated for activities within this Subbasin.

The three water agencies located within the Mission Creek Subbasin have formed the Management Committee. CVWD and DWA are each exclusive GSAs that oversee and manage portions of the Mission Creek Subbasin that overlay each of their respective service areas. These agencies coordinate with MSWD, a managing partner, to develop the Mission Creek Subbasin Alternative Plan Update.[8] The Alternative Plan was approved by the California Department of Water Resources (DWR) on July 17, 2019. With this approval, DWR made several recommendations for new information and a requirement that the first Alternative Plan Update be prepared by January 1, 2022. The mission statement of the Alternative Plan is: *"The purpose of the Mission Creek and Garnet Hill Water Management Plan is to manage the water resources to meet demands reliably and protect water quality in a sustainable and cost-effective manner."* As the project proponent (MSWD) is a managing partner of the Mission Creek Subbasin Alternative Plan and subsequent updates thereof, and as the proposed project would not demand substantial water resources once operational, nor water resources during construction beyond the District's supply and demand into the future, it is

[6] CVWD, 2025. Sustainable Groundwater Management Act. https://www.cvwd.org/357/Sustainable-Groundwater-Management-Act (Accessed 12/15/25)
[7] California Department of Water Resources, 2025. Sustainable Groundwater Management Act (SGMA). https://www.waterboards.ca.gov/sgma/about_sgma.html (Accessed 12/15/25)
[8] Mission Creek Subbasin SGMA, 2025. Management Committee. http://www.missioncreeksubbasinsgma.org/#Management-Committee (Accessed 12/15/25)

not anticipated that the project would obstruct groundwater recharge efforts within or surrounding the project area, no conflict or obstruction of a water quality control plan or sustainable groundwater management plan is anticipated.

Given that the project would not require a connection to MSWD water supply beyond the use of water for dust control during construction, and as state above, given that the project would not require water resources during construction beyond the District's supply and demand into the future, and that the project would not obstruct groundwater recharge efforts within or surrounding the project area, no conflict or obstruction of a water quality control plan or sustainable groundwater management plan is anticipated. Further, the purpose of the proposed project is to protect groundwater quality from degradation by discharges from septic tank leach-fields. Thus, the project's purpose would result in furtherance of continued sustainable groundwater management of the basin. Thus, it is anticipated that the proposed project would have a less than significant potential to conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan.

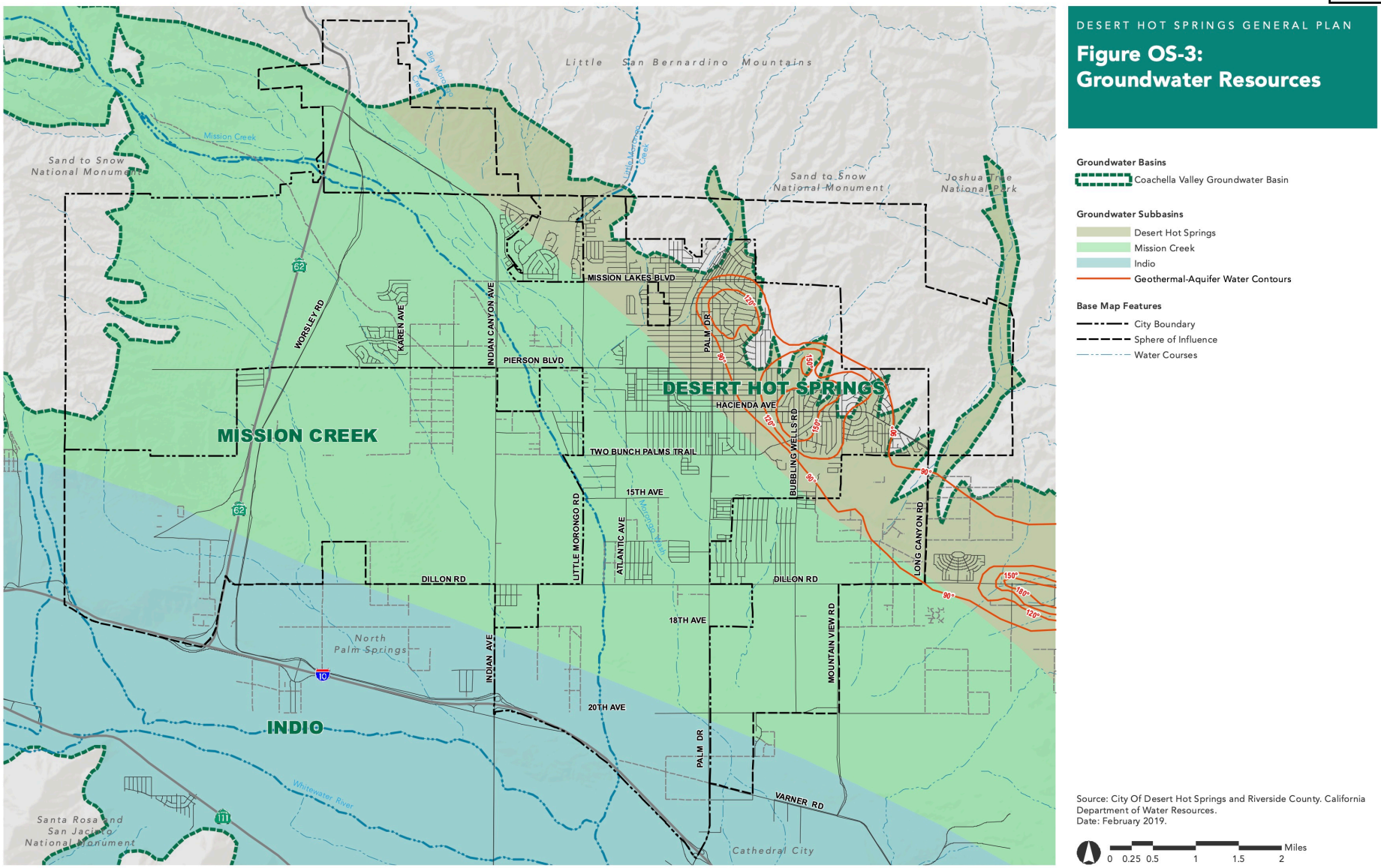
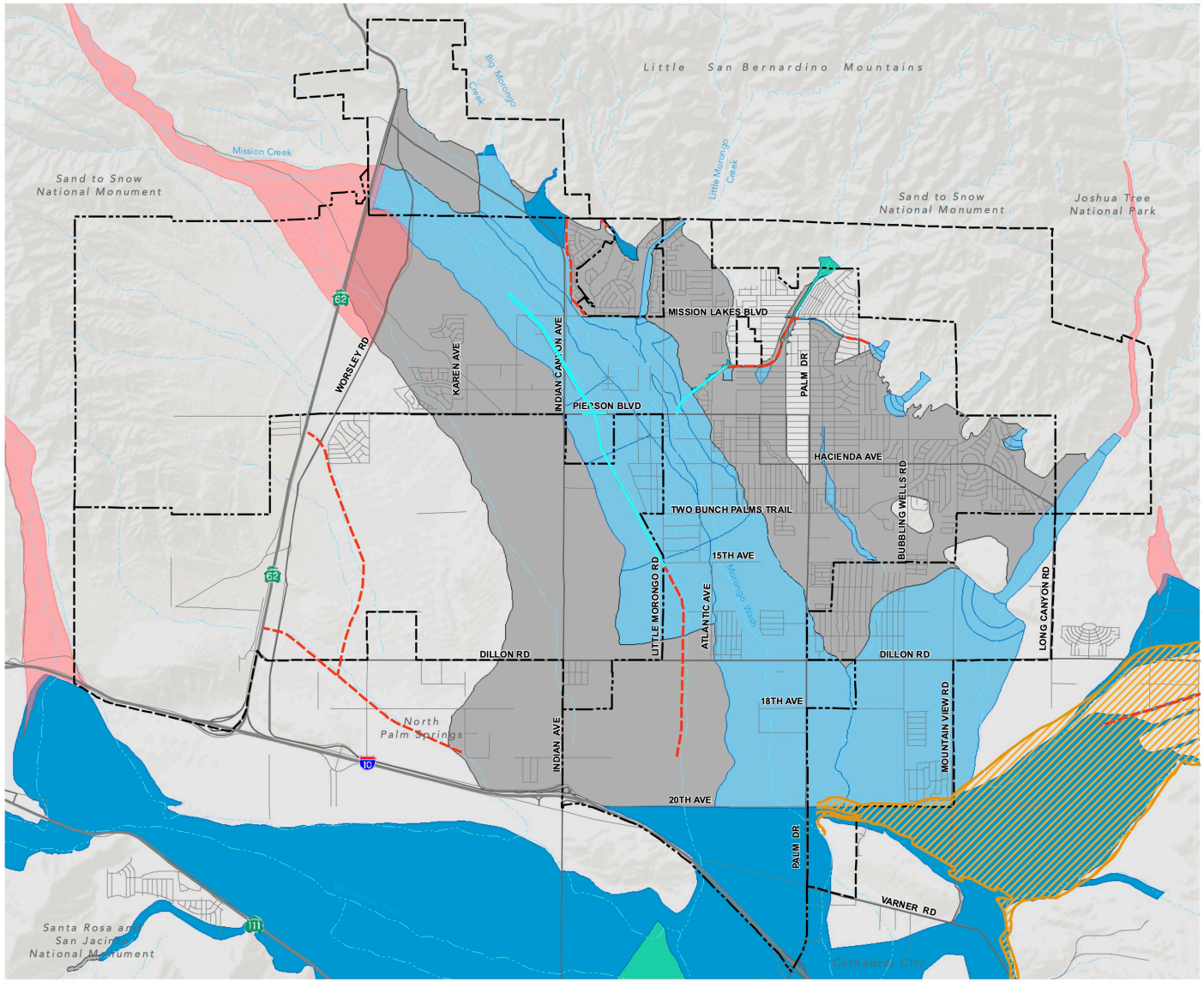


FIGURE X-1

Tom Dodson & Associates
Environmental Consultants

Groundwater Resources Map



DESERT HOT SPRINGS GENERAL PLAN

Figure SN-4: Flood Hazards

FEMA Flood Zones

Special Flood Hazard Areas Subject To Inundation by the One Percent Annual Chance Flood

The 1% annual flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard include Zones A, E, and AO. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

- Zone A — No Base Flood Elevations determined.
- Zone AE — Base Flood Eleations determined.
- Zone AO — Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.

Other Flood Areas

- Zone X — Areas of 0.2% annual chance flood (500-year flood); and areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.
- Awareness Floodplain Boundary (approximate)

Dam Inundation

- Wide Canyon Dam Inundation Area

Flood Control Channels and Facilities

- Riverside County Flood Control Facilities

Base Map Features

- City Boundary
- Sphere of Influence
- Water Courses

January 2019.

Source: Federal Emergency Management Agency (FEMA), August 2018.
National Flood Hazards Layer (NFHL). FEMA Map Service Center: Web Page, <http://msc.fema.gov>
California Department of Water Resources, 2018. Awareness Floodplain Mapping Boundaries - Riverside County: Web Page, <http://www.water.ca.gov/floodmgmt/lrafmo/fmb/fes/awareness_floodplain_maps>
California Department of Water Resources, Office of Emergency Services, 1958. Dam Inundation Areas, 2009.

0 0.25 0.5 1 1.5 2 Miles

FIGURE X-2

Tom Dodson & Associates
Environmental Consultants

Flood Hazards Map

NOTES TO USERS

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To obtain more detailed information in areas where **Base Flood Elevations** (BFEs) and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations tables in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations tables should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The **projection** used in the preparation of this map was Universal Transverse Mercator (UTM) zone 11. The **horizontal datum** was NAD 83, GRS80 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

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NGS Information Services
NOAA, N/NGS12
National Geodetic Survey
SSMC-3, #9202
1315 East-West Highway
Silver Spring, Maryland 20910-3282
(301) 713-3242

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at **(301) 713-3242**, or visit its website at http://www.ngs.noaa.gov.

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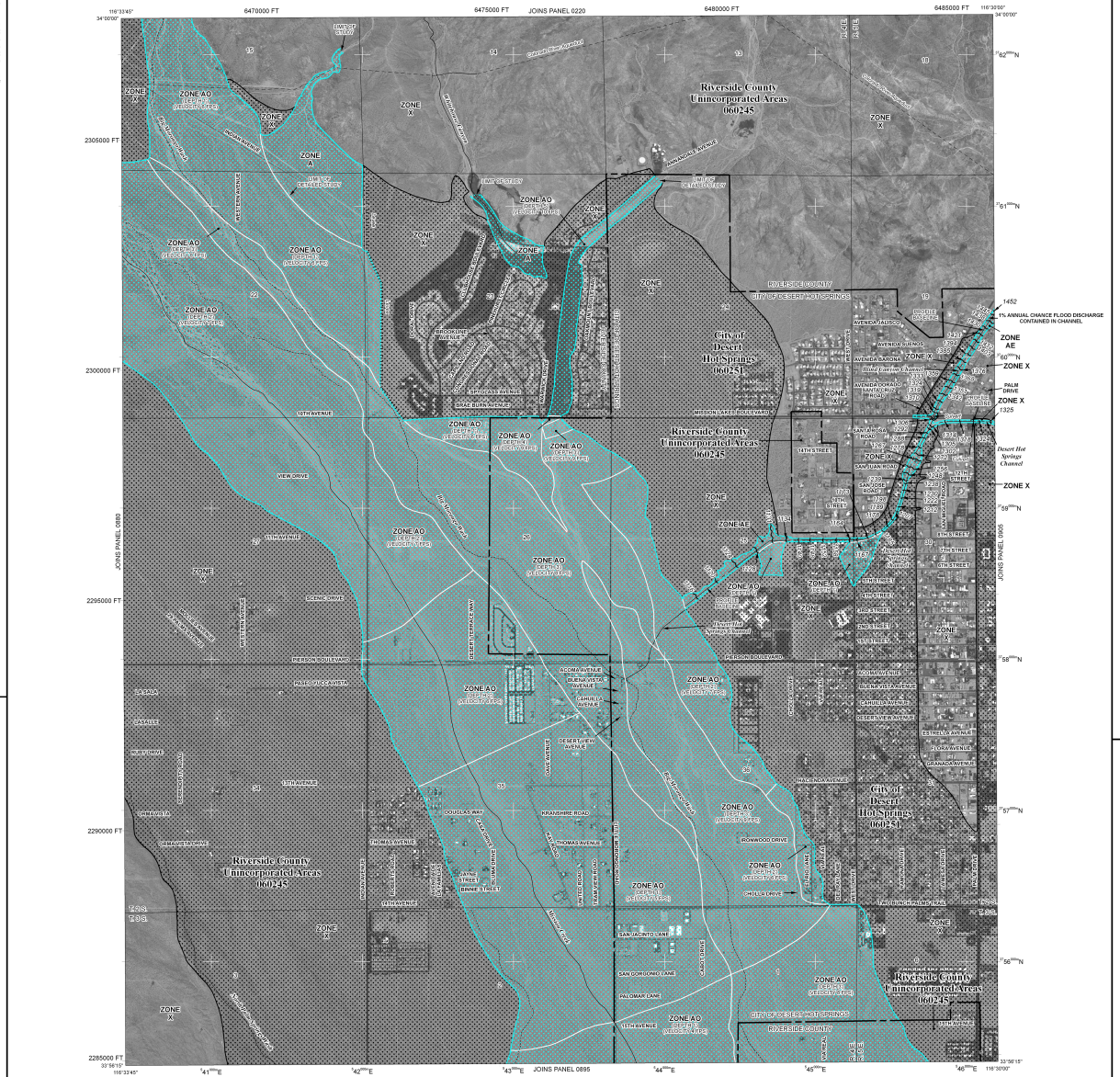
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JOINS PANEL 0905
JOINS PANEL 0895
Riverside County Unincorporated Areas 060245
City of Desert Hot Springs 060251
ZONE AO
ZONE A
ZONE X
ZONE AE
CITY OF DESERT HOT SPRINGS
RIVERSIDE COUNTY
1% ANNUAL CHANCE FLOOD DISCHARGE CONTAINED IN CHANNEL
Desert Hot Springs Channel
Whitewater River
Mission Creek
Big Morongo Canyon
Palm Canyon
Indian Canyon
Tahquitz Canyon
Andreas Canyon
Chino Canyon
Snow Creek
Falls Creek
Dry Morongo Wash
Long Canyon
Dunn Canyon
Willow Hole
Edom Hill
Cathedral City
Palm Springs
Rancho Mirage
Thousand Palms
Indio
Coachella
Desert Hot Springs
Palm Desert
Indian Wells
La Quinta
Bermuda Dunes
Indio Hills
Joshua Tree National Park
Salton Sea
Interstate 10
Interstate 15
Interstate 215
Interstate 215 Business
State Route 62
State Route 74
State Route 86
State Route 111
State Route 195
State Route 243
State Route 247
State Route 371
State Route 395
State Route 1
State Route 2
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State Route

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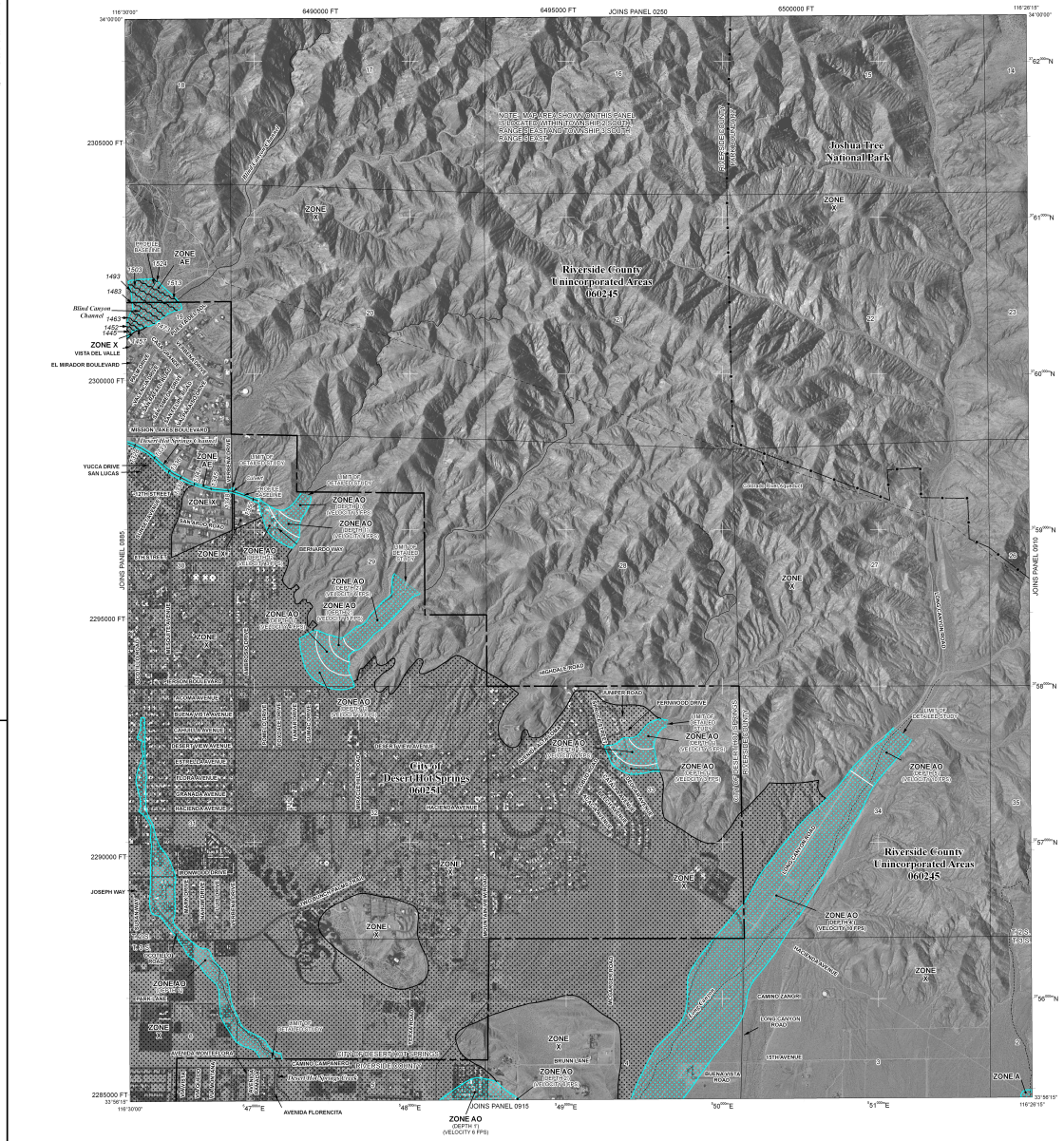
JOINS PANEL 0250
JOINS PANEL 0905
JOINS PANEL 0910
JOINS PANEL 0915
Joshua Tree National Park
Riverside County Unincorporated Areas 060245
City of Desert Hot Springs 060251
ZONE X
ZONE AE
ZONE AO
ZONE A
VISTA DEL VALLE
EL MIRADOR BOULEVARD
MISSION LAKES BOULEVARD
YUCCA DRIVE
SAN LUCAS
DILLON ROAD
PALM DRIVE
DATE STREET
BUENA VISTA AVENUE
ACACIA AVENUE
VERBENA AVENUE
DESERT VIEW AVENUE
ESTHER AVENUE
FLORA AVENUE
GRANDA AVENUE
HACIENDA AVENUE
PALM VISTA AVENUE
PALM DRIVE
DESERT LAWN DRIVE
WHITEWATER CANYON
WHITEWATER CANYON ROAD
WHITEWATER CANYON WASH
WHITEWATER RIVER
WHITEWATER RIVER CHANNEL
WHITEWATER RIVER FLOODWAY
WHITEWATER RIVER FLOODWAY CHANNEL
WHITEWATER RIVER FLOODWAY CHANNEL 2
WHITEWATER RIVER FLOODWAY CHANNEL 3
WHITEWATER RIVER FLOODWAY CHANNEL 4
WHITEWATER RIVER FLOODWAY CHANNEL 5
WHITEWATER RIVER FLOODWAY CHANNEL 6
WHITEWATER RIVER FLOODWAY CHANNEL 7
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WHITEWATER RIVER FLOODWAY CHANNEL 9
WHITEWATER RIVER FLOODWAY CHANNEL

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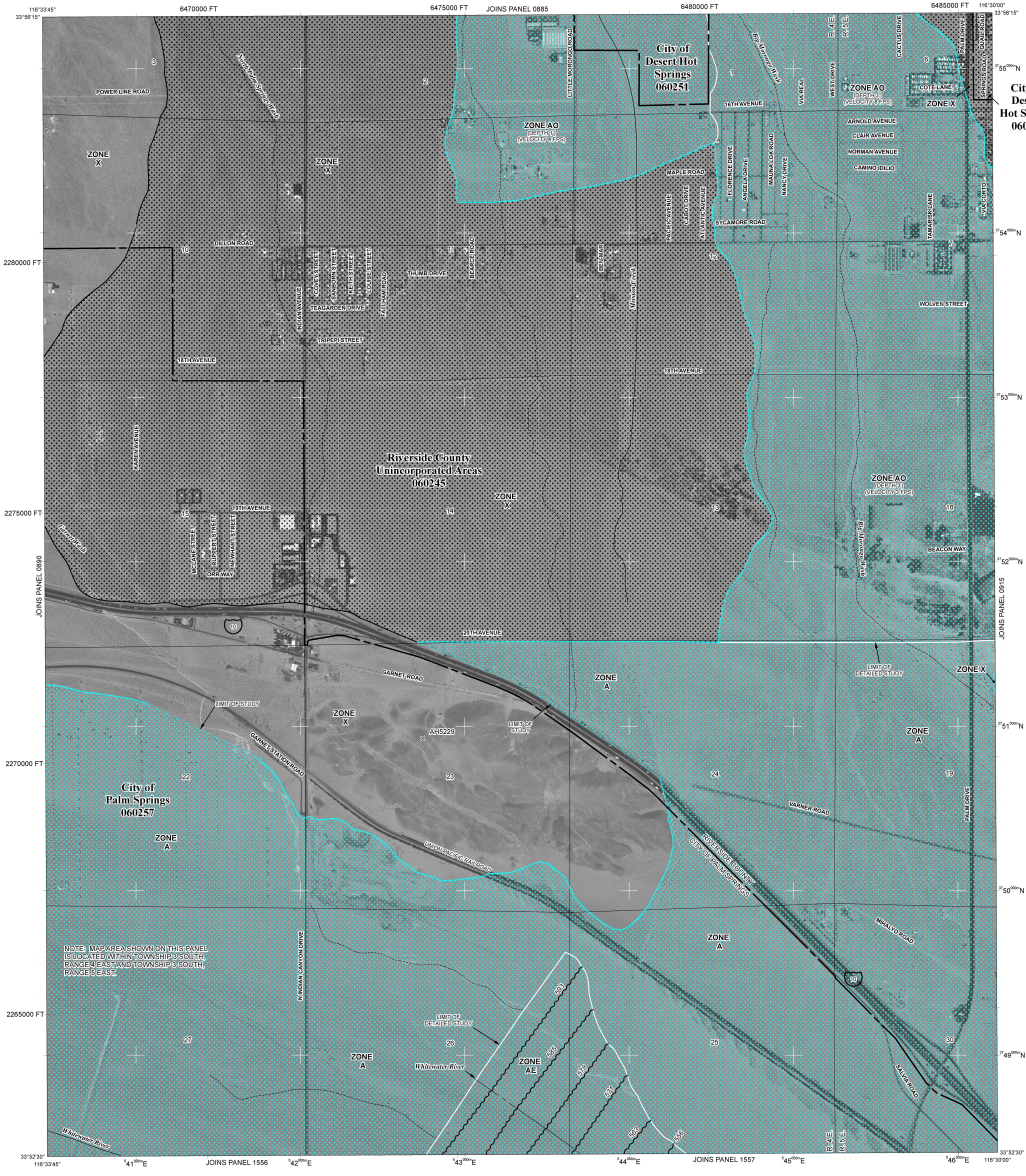
Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

Contact the **FEMA Map Service Center** at 1-800-358-9616 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Flood Insurance Study report, and/or digital versions of this map. The FEMA Map Service Center may also be reached by Fax at 1-800-358-9620 and its website at http://msc.fema.gov.

If you have **questions about this map** or questions concerning the National Flood Insurance Program in general, please call **1-877-FEMA MAP** (1-877-336-2627) or visit the FEMA website at http://www.fema.gov.



LEGEND

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

- **ZONE A** — No Base Flood Elevations determined.
- **ZONE AE** — Base Flood Elevations determined.
- **ZONE AH** — Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
- **ZONE AO** — Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
- **ZONE AR** — Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
- **ZONE A99** — Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
- **ZONE V** — Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
- **ZONE VE** — Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

- **ZONE X** — Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

- **ZONE X** — Areas determined to be outside the 0.2% annual chance floodplain.
- **ZONE D** — Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

- 1% annual chance floodplain boundary
- 0.2% annual chance floodplain boundary
- Floodway boundary
- Zone D boundary
- CBRS and OPA boundary
- Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.
- 513 — Base Flood Elevation line and value; elevation in feet*
- (EL 987) — Base Flood Elevation value where uniform within zone; elevation in feet*

* Referenced to the North American Vertical Datum of 1988

- A–A — Cross section line
- 23–23 — Transect line
- 87°07'45", 32°22'30" — Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere
- 3776000mN — 1000-meter Universal Transverse Mercator grid values, zone 11N
- 600000 FT — 5000-foot grid ticks: California State Plane coordinate system, zone VI (FIPSZONE 0406), Lambert Conformal Conic projection
- DX5510 × — Bench mark (see explanation in Notes to Users section of this FIRM panel)
- M1.5 — River Mile

MAP REPOSITORY
Refer to listing of Map Repositories on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
August 28, 2008

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your Insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

MAP SCALE 1" = 1000'
500 0 1000 2000 FEET
300 0 300 600 METERS

NFIP
NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0895G

FIRM

FLOOD INSURANCE RATE MAP

RIVERSIDE COUNTY, CALIFORNIA AND INCORPORATED AREAS

PANEL 895 OF 3805
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
DESERT HOT SPRINGS, CITY OF	060251	0895	G
PALM SPRINGS, CITY OF	060257	0895	G
RIVERSIDE COUNTY	060245	0895	G

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
06065C0895G

EFFECTIVE DATE
AUGUST 28, 2008

Federal Emergency Management Agency

FIGURE X-5

Tom Dodson & Associates
Environmental Consultants

FEMA Flood Hazard Map Covering Area I-10

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact or Does Not Apply
XI. LAND USE AND PLANNING: Would the project:				
a) Physically divide an established community?	☐	☐	☐	☒
b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?	☐	☐	☒	☐

SUBSTANTIATION

Impact Analysis

a. *No Impact* – MSWD proposes to install 142,000 LF of 8-inch sewer pipeline within Areas A, D-3, G, H, I, J-2, K, and along the I-10 corridor to eliminate septic tanks that threaten contamination of potable groundwater supplies by expanding MSWD's wastewater collection system. This project also includes abating more than 2,040 septic tanks, and connecting 2,600 parcels to the District's sewer collection system, as well as installation of an estimated 2,500 new 4- to 6-inch service laterals. The proposed project will install the new sewer pipeline and laterals belowground within existing roadways, and compacted dirt right-of-way. The project footprint occurs mostly within roadways, which have no General Plan Land Use Designation because roadways are considered essential infrastructure. However, the proposed project includes septic abatement within properties that would be connected to MSWD's municipal sewer service as a result of the proposed project. This would occur at existing septic tanks, and would have no bearing on project land use.

As construction would only occur for a short duration, it would not result in a permanent change to the environment beyond that which is discussed below as a result of operation of the proposed facilities. Furthermore, construction activities are routine within suburban/urban areas, and the presence of construction would not physically divide an established community, particularly given that access to any community within which the sewer pipeline, laterals, and septic abatement would occur would be maintained for the duration of construction. Thus, construction activities associated with implementation of the proposed project would not physically divide an established community. No impacts are anticipated.

Once in operation, the pipelines and laterals and abated septic systems would be located belowground, and therefore, would have no potential to physically divide an established community, as the surfaces aboveground would be returned to their original conditions. As such, the proposed project would have no potential to divide the community within which the easement would be installed. This is because the whole of the project would operate belowground. Thus, there are no features of the proposed project that would create a barrier or physically divide an established community. No impacts are anticipated.

b. *Less Than Significant Impact* – Please refer to the discussion under issue X(a) above. The proposed project would occur over the various GQPP Sub Areas located throughout the City of Desert Hot

Springs, City of Palm Springs, and Unincorporated Riverside County, overlapping within an area of about 2,000 acres. As a result, the mix of land uses that occur within the project area includes nearly all of the land uses that could be found within the City of Desert Hot Springs; and further, within the City of Palm Springs, the land use is generally Industrial (IND) in nature, with some areas designated for Open Space Desert (OS-D), and a small area designated for Medium Density Residential (MDR). Within Unincorporated Riverside County, the predominant land uses are Medium Density Residential, Commercial Retail, Open Space Recreation, Conservation, and Medium High Density Residential. Within all "lettered" Sub Areas, the predominant land uses are residential in nature.

The three General Plans that pertain to the area within which the GQPP Septic to Sewer Project is located support the provision of adequate infrastructure to support the communities, including expanding access to municipal sewer collection services, such as that which is proposed by this project. Construction of these facilities is necessary to operate said infrastructure to support MSWD's service area. Furthermore, construction is temporary in nature, and as such, the presence of construction equipment and workers supporting construction would not result in any permanent impacts beyond those that are discussed below under operation. Therefore, construction of the facilities proposed by this project would have no potential to conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect. No impacts are anticipated.

The project footprint occurs mostly within roadways, which have no General Plan Land Use Designation because roadways are considered essential infrastructure. However, the proposed project includes septic abatement within properties that would be connected to MSWD's municipal sewer service as a result of the proposed project. This would occur at existing septic tanks, and would have no bearing on project land use. As stated above, the City of Desert Hot Springs, Palm Springs, and Riverside County each have adopted General Plans that support the provision of adequate infrastructure, and the Southern California Association of Governments (SCAG) Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS) Connect SoCal also promotes this goal. In addition, MSWD would coordinate directly with local and regional agencies with jurisdiction to ensure compatibility with existing adjacent land uses and consistency with adopted plans. As such, the proposed project would have a less than significant potential to cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect. As the sewer pipelines, laterals, and abated septic systems would be located belowground, it is not anticipated that any land use conflicts would occur. Impacts would be less than significant.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact or Does Not Apply
XII. MINERAL RESOURCES: Would the project:				
a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?	☐	☐	☐	☒
b) Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?	☐	☐	☐	☒

SUBSTANTIATION

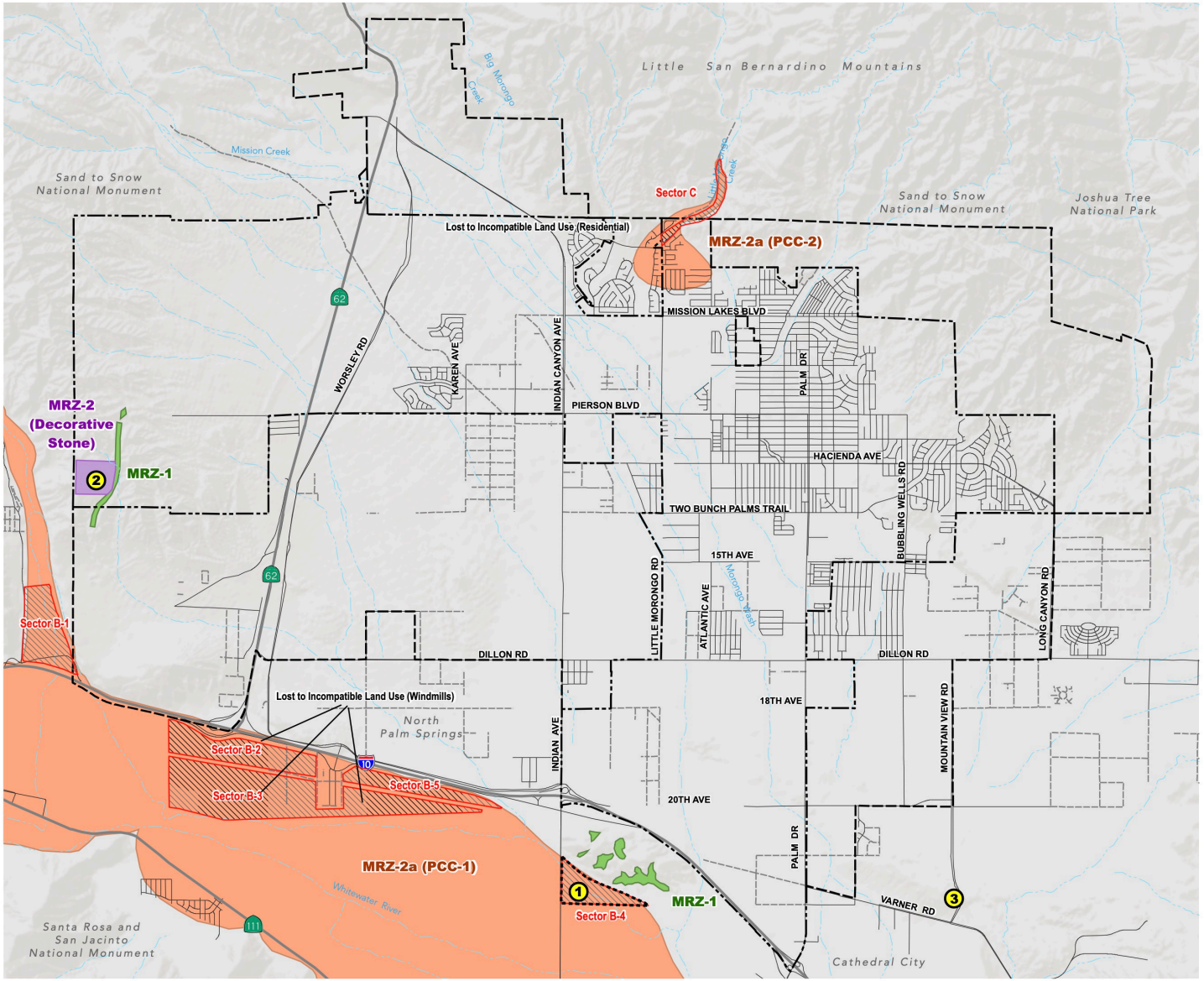
a. *No Impact* – The proposed GQPP Septic to Sewer Project is located within the City of Desert Hot Springs, Unincorporated Riverside, and City of Palm Springs. The project footprint occurs mostly within roadways; however, the proposed project includes septic abatement within properties that would be connected to MSWD's municipal sewer service as a result of the proposed project. This would occur at existing septic tanks, and would occur within existing occupied land uses. According to the Mineral Resources map prepared for the City of Desert Hot Springs General Plan (**Figure XII-1**), the only area that overlaps with a designated mineral resource zone (MRZ) occurs within Area A. Within Area A, MRZ-2a occurs in the northerly portion of this area, and MRZ-2a indicates areas where available geologic data indicates that significant measured or indicated mineral resources are present.

Construction of the project, and the facilities proposed therein, will not cause the loss of a known mineral resource of value to the region or residents of the state or the loss of access to locally important mineral resource recovery sites. This is because construction would not conflict with existing mining, or preclude the areas containing mineral resources (within Area A, as described above) to be utilized for future mineral resource extraction, the installation of the proposed sewer pipelines and laterals, and septic abatement has minimal potential to have a direct adverse impact on mineral resources. As such, construction of the proposed project facilities will not have a significant adverse potential to result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state. No impacts are anticipated.

Similarly, operation of the pipelines and laterals will not cause the loss of a known mineral resource of value to the region or residents of the state or the loss of access to locally important mineral resource recovery sites. This is because no mining development has been proposed to date within the parcels within which the septic abatement is proposed, and further, the remainder of the project activities would occur within roadway or other ROW in already developed areas. The project does not propose a use that would preclude future mining activities or be anticipated to be within a site that would be suitable for future mining activities as a result of existing uses of the project footprint. Therefore, the operation of the proposed project has minimal potential to have a direct adverse impact on mineral resources. As such, implementation of the project will not have a significant adverse potential to result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state. No impacts are anticipated.

b. *No Impact* – As previously stated, according to the Mineral Resources map prepared for the City of Desert Hot Springs General Plan (**Figure XII-1**), the only area that overlaps with a designated MRZ occurs within Area A. Within Area A, MRZ-2a occurs in the northerly portion of this area. Construction of the proposed project has almost no potential to interfere with existing mining of mineral resources. According to the **Figure XII-1**, there are no existing mining operations within the project area. Furthermore, as discussed above, the construction of the proposed sewer pipelines and laterals, and septic abatement would not preclude future mining operations from occurring within areas designated as MRZ-2a within the project footprint. As such, as no mining operations exist within the project footprint, and no areas within the project footprint are designated for mineral extraction by the respective General Plan, the construction of the proposed project would not result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan. No impacts are anticipated.

Operation of the proposed project has almost no potential to interfere with existing mining of mineral resources. According to the Mineral Resources map prepared for the City of Desert Hot Springs General Plan (**Figure XII-1**), the only area that overlaps with a designated MRZ occurs within Area A. Further, this map indicates that there are no existing mining operations within the project footprint. Furthermore, as discussed above, the implementation of the proposed project would not preclude future mining operations from occurring within areas designated as MRZ-2a within the project footprint. As no areas within the project footprint are designated for mineral extraction, and as the proposed pipelines and laterals would operate belowground generally within roadways and other ROW, the operation proposed project would not result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan. No impacts are anticipated.



DESERT HOT SPRINGS GENERAL PLAN

Figure OS-4: Mineral Resources

Mineral Resource Zone Designations

MRZ-1
Areas where available geologic information indicates that little likelihood exists for the presence of significant mineral resources

MRZ-2 (Base, Decorative Stone)
Areas where available geologic data indicates that significant measured or inferred mineral resources, other than PCC-grade aggregate, are present

MRZ-2a (PCC)
Areas where available geologic data indicates that significant measured or indicated mineral resources are present

MRZ-3
Areas containing known or inferred mineral occurrences of undetermined mineral resource significance.

Aggregate Resources

Areas designated by the State Mining and Geoloogy Board (1989) as containing regionally significant PCC-grade aggregate resources. Darker shading represents those portions currently lost to land use incompatible with mining as defined by the Board

Permitted Aggregate Mine Boundary

Permmited Mines Producing PCC-Grade Aggregate

1 Granite Garnet Pit

Permitted Mine Producing Other Commodities

2 Painted Hills - Super Creek Quarry

3 Riverside County D.O.T. - New Thermal Canyon Pit

Base Map Features

City Boundary
Sphere of Influence
Water Courses

Source: City Of Desert Hot Springs and Riverside County.
Date: February 2019.

0 0.25 0.5 1 1.5 2 Miles

FIGURE XII-1

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact or Does Not Apply
XIII. NOISE: Would the project result in:				
a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of a project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?	☐	☒	☐	☐
b) Generation of excessive groundborne vibration or groundborne noise levels?	☐	☒	☐	☐
c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?	☐	☐	☒	☐

SUBSTANTIATION: The following information utilized in this section of the Initial Study was obtained from the following technical study: *Mission Springs Noise and Vibration Analysis* (NVA) prepared by Urban Crossroads, dated March 2026. This NVA is provided as **Appendix 6** to this Initial Study.

Background

Noise is generally described as unwanted sound. Sound becomes unwanted when it interferes with normal activities, when it causes actual physical harm or when it has adverse effects on health. Noise is measured on a logarithmic scale of sound pressure level known as a decibel (dB). A-weighted decibels (dBA) approximate the subjective response of the human ear to broad frequency noise source by discriminating against very low and very high frequencies of the audible spectrum. They are adjusted to reflect only those frequencies which are audible to the human ear. **Exhibit XIII-1** presents a summary of the typical noise levels and their subjective loudness and effects that are described in more detail below.

Since the range of intensities that the human ear can detect is so large, the scale frequently used to measure intensity is a scale based on multiples of 10, the logarithmic scale. The scale for measuring intensity is the decibel scale. Each interval of 10 decibels indicates a sound energy ten times greater than before, which is perceived by the human ear as being roughly twice as loud. The most common sounds vary between 40 dBA (very quiet) to 100 dBA (very loud). Normal conversation at three feet is roughly at 60 dBA, while loud jet flyover noises equate to 110 dBA at approximately 1,000 feet, which can cause serious discomfort. Another important aspect of noise is the duration of the sound and the way it is described and distributed in time.

Exhibit XIII-1: Typical Noise Levels

COMMON OUTDOOR ACTIVITIES	COMMON INDOOR ACTIVITIES	A - WEIGHTED SOUND LEVEL dBA	SUBJECTIVE LOUDNESS	EFFECTS OF NOISE
THRESHOLD OF PAIN		140	INTOLERABLE OR DEAFENING	HEARING LOSS
NEAR JET ENGINE		130		
		120		
JET FLY-OVER AT 300m (1000 ft)	ROCK BAND	110		
LOUD AUTO HORN		100	VERY NOISY	
GAS LAWN MOWER AT 1m (3 ft)		90		
DIESEL TRUCK AT 15m (50 ft), at 80 km/hr (50 mph)	FOOD BLENDER AT 1m (3 ft)	80		SPEECH INTERFERENCE
NOISY URBAN AREA, DAYTIME	VACUUM CLEANER AT 3m (10 ft)	70	LOUD	
HEAVY TRAFFIC AT 90m (300 ft)	NORMAL SPEECH AT 1m (3 ft)	60		
QUIET URBAN DAYTIME	LARGE BUSINESS OFFICE	50	MODERATE	SLEEP DISTURBANCE
QUIET URBAN NIGHTTIME	THEATER, LARGE CONFERENCE ROOM (BACKGROUND)	40		
QUIET SUBURBAN NIGHTTIME	LIBRARY	30	FAINT	NO EFFECT
QUIET RURAL NIGHTTIME	BEDROOM AT NIGHT, CONCERT HALL (BACKGROUND)	20		
	BROADCAST/RECORDING STUDIO	10	VERY FAINT	
LOWEST THRESHOLD OF HUMAN HEARING	LOWEST THRESHOLD OF HUMAN HEARING	0		

Significance Criteria

Noise Level Increases

Under CEQA, consideration must be given to the magnitude of the increase, the existing baseline ambient noise levels, and the location of receivers to determine if a noise increase represents a significant adverse environmental impact. This approach recognizes that there is no single noise increase that renders the noise impact significant.

This is primarily because of the wide variation in individual thresholds of annoyance and differing individual experiences with noise. Thus, an important way of determining a person's subjective reaction to a new noise is the comparison of it to the existing environment to which one has adapted—the so-called ambient environment.

Operational Noise

The approach used in this noise study recognizes that there is no single noise increase that renders a noise impact significant, based on a 2008 California Court of Appeal ruling on Gray v. County of Madera. (20) For example, if the ambient noise environment is quiet (<60 dBA) and the new noise source greatly increases the noise levels, an impact may occur if the noise criteria may be exceeded. Therefore, for this analysis, a readily perceptible 5 dBA or greater project-related noise level increase is considered a significant impact when the without-project noise levels are below 60 dBA. Per the FICON, in areas where the without project noise levels range from 60 to 65 dBA, a 3 dBA barely perceptible noise level increase appears to be appropriate for most people. When the without project noise levels already exceed 65 dBA, any increase in community noise louder than 1.5 dBA or greater is considered a significant impact if

the noise criteria for a given land use is exceeded, since it likely contributes to an existing noise exposure exceedance.

The FICON guidance provides an established source of criteria to assess the impacts of substantial temporary or permanent increase in baseline ambient noise levels. Based on the FICON criteria, the amount to which a given noise level increase is considered acceptable is reduced when the without Project (baseline) noise levels are already shown to exceed certain land-use specific exterior noise level criteria. The specific levels are based on typical responses to noise level increases of 5 dBA or readily perceptible, 3 dBA or barely perceptible, and 1.5 dBA depending on the underlying without Project noise levels for noise-sensitive uses. These levels of increases and their perceived acceptance are consistent with guidance provided by both the Federal Highway Administration and Caltrans.

Construction Noise

To evaluate the noise-generating construction activities, the temporary noise level increases over the existing ambient conditions must be considered under CEQA Significance Threshold A. The City of Desert Hot Springs and City of Palm Springs limit the hours of construction activities, however, the County has not adopted a noise increase limit for construction sources in relation to temporary noise level increases over the existing ambient conditions.

In 2024, the City of Los Angeles adopted a temporary construction noise increase threshold for the review and preparation of environmental analysis under CEQA. The City of Los Angeles CEQA threshold document was developed based on input from technical experts, including a Technical Advisory Committee consisting of noise consultants and experts with decades of experience in preparing noise studies, and included a public process and review of noise thresholds used by other state and local agencies. The City of Los Angeles supported by substantial evidence found that 10 dBA construction noise increase thresholds previously employed in the City of Los Angeles to be overly conservative, especially in the context of impacts on public health that often results in significant impact determination, even for routine construction activities that are expected to occur in an urban environment. Based on these findings, City of Los Angeles identified a daytime 80 dBA $L_{eq(8hr)}$ absolute construction noise threshold and a 5 dBA nighttime construction noise increase threshold with no increase threshold for daytime construction activities. In developing its thresholds, the City of Los Angeles noted that an 80 dBA $L_{eq(8hr)}$ absolute threshold could result in 10 to 25 dBA increases over ambient, which would be noticeable, but temporary.

Although noise ordinances vary by jurisdiction, many cities and counties in California—including Los Angeles, San Diego, and San Francisco—establish absolute construction noise limits in the range of 75 to 80 dBA L_{eq} and generally restrict construction activities to daytime hours. In contrast, operational noise standards are more stringent because they apply to continuous, long-term noise sources that can substantially affect quality of life. As a result, establish daytime operational noise limits around 60 dBA L_{eq}. This indicates that a temporary increase of up to 20 dBA above the daytime operational limit may be reasonably tolerated without resulting in significant adverse effects. While this analysis relies on the 20 dBA L_{eq} *substantial* noise increase threshold, it is important to recognize that other jurisdictions within the State, including the City of Los Angeles, no longer maintain any daytime noise increase thresholds. Therefore, if the Project-related construction noise levels generate a temporary noise level increase over the existing daytime ambient noise levels of more than 20 dBA L_{eq} or 5 dBA L_{eq} over the existing nighttime ambient noise levels, then the Project construction noise increases will be considered a *significant* impact.

Construction Vibration Threshold

Construction activity can result in varying degrees of ground-borne vibration, depending on the equipment and methods used, distance to the affected structures and soil type. Construction vibration is generally associated with pile driving and rock blasting. Other construction equipment such as air compressors, light trucks, hydraulic loaders, etc., generates little or no ground vibration. To analyze vibration impacts originating from the operation and construction, the Caltrans *Transportation and Construction Vibration Guidance Manual*, Table 19, vibration damage is used in this noise study to assess potential temporary construction-related impacts at adjacent building locations. The nearest noise sensitive buildings adjacent to the project site can best be described as "older residential structures" with a maximum acceptable continuous vibration threshold of 0.3 PPV (in/sec).

Significance Criteria Summary

Noise impacts shall be considered significant if any of the following occur as a direct result of the proposed development. Table XIII-1 shows the significance criteria summary matrix that includes the allowable criteria used to identify potentially significant incremental noise level increases.

Table XIII-1: Significance Criteria Summary

Analysis	Receiving Land Use	Condition(s)	Significance Criteria	
			Daytime	Nighttime
Off-Site Traffic	Noise-Sensitive[1]	If ambient is < 60 dBA CNEL	≥ 5 dBA CNEL Project increase	
		If ambient is 60 - 65 dBA CNEL	≥ 3 dBA CNEL Project increase	
		If ambient is > 65 dBA CNEL	≥ 1.5 dBA CNEL Project increase	
Operational	Noise-Sensitive	Residential Exterior Noise Level[2]	65 dBA L_{eq}	45 dBA L_{eq}
		If ambient is < 60 dBA Leq[1]	≥ 5 dBA L_{eq} Project increase	
		If ambient is 60 - 65 dBA Leq[1]	≥ 3 dBA L_{eq} Project increase	
		If ambient is > 65 dBA Leq[1]	≥ 1.5 dBA L_{eq} Project increase	
Construction	Noise-Sensitive	Noise Level Threshold[3]	80 dBA L_{eq}	70 dBA L_{eq}
		Exterior Noise Level Increase	20 dBA L_{eq}	5 dBA L_{eq}
		Vibration Level Threshold[4]	0.30 PPV (in/sec)	

[1] FICON, 1992.
[2] Country of Riverside, General Plan Policy 4.1.
[3] Federal Transit Administration, Transit Noise and Vibration Impact Assessment Manual.
[4] Caltrans Transportation and Construction Vibration Manual, April 2020 Table 19
"Daytime" = 7:00 a.m. to 10:00 p.m.; "Nighttime" = 10:00 p.m. to 7:00 a.m.

Noise Measurement Results

The noise measurements presented below focus on the equivalent or the hourly energy average sound levels (L_{eq}) to describe the existing ambient conditions. XIII-2 provides the (energy average) noise levels used to describe the hourly daytime (7:00 a.m. to 10:00 p.m.) and nighttime (10:00 p.m. to 7:00 a.m.) noise levels at each noise level measurement location. The equivalent sound level (L_{eq}) represents a steady state sound level containing the same total energy as a time-varying signal over a given sample period. The daytime and nighttime equivalent noise levels represent the average of all hourly noise levels observed during these time periods expressed as a single number.

Table XIII-2 provides the equivalent noise levels used to describe the daytime and nighttime ambient conditions for each of the measurements.

Table XIII-2: Ambient Noise Level Measurements

Location[1]	Description	Energy Average Noise Level (dBA L_{eq})[2]		CNEL
		Daytime	Nighttime	
L1	Located near the residence at 9045 Clubhouse Blvd.	55.7	53.2	57.5
L2	Located near the residence at 64537 Spyglass Ave.	59.2	55.4	59.2
L3	Located near the residence at 9100 Oakmount Blvd.	57.6	57.2	60.8
L4	Located near the residence at 66334 San Juan Rd.	49.8	47.7	52.9
L5	Located near the residence at 66402 Cactus Dr.	56.2	55.6	59.2
L6	Located near the residence at 12256 Ambrosio Dr.	62.3	57.2	61.8
L7	Located near the residence at 12550 Tamar Dr.	54.9	54.4	59.4
L8	Located near the residence at 12780 Agua Cayendo Rd.	48.4	45.3	51.4
L9	Located near the residence at 67600 Monterey Rd.	59.0	47.6	57.1
L10	Located near the residence at 13080 Agua Cayendo Rd.	52.2	48.7	54.8
L11	Located near the residence at 12550 Hidalgo St.	50.5	45.4	51.3
L12	Located near the residence at 13666 Hermano Way.	56.6	51.5	58.6
L13	Located near the residence at 68272 C. Blanco.	51.9	53.0	57.7
L14	Located near the residence at 12100 Highland Ave.	53.4	50.5	54.9
L15	Located near the residence at 12690 Avenida Alta Loma.	56.8	52.3	58.3
L16	Located near the residence at 12110 Redbud Rd.	46.9	43.4	49.4
L17	Located near the residence at 12565 Skyline Dr.	53.3	57.9	53.1
L18	Located near the residence at 12775 Beech Ave.	50.3	44.0	51.0
L19	Located near the residence at 64050 18th Ave.	65.3	65.7	69.7
L20	Located near the residence at 17725 Covey St.	61.7	60.3	65.6

[1] See **Figure XIII-1** for the noise level measurement locations.
[2] Energy (logarithmic) average levels. The long-term 24-hour measurement worksheets are included in Appendix 5.2 in the NVA. "Daytime" = 7:00 a.m. to 10:00 p.m.; "Nighttime" = 10:00 p.m. to 7:00 a.m.

Receiver Locations

To assess the potential for long-term operational and short-term construction noise impacts, the following receiver locations, as shown on **Figure XIII-2**, were identified as representative locations for analysis. The selection of receiver locations is based on FHWA guidelines and is consistent with additional guidance provided by Caltrans and the FTA. Sensitive receivers are generally defined as locations where people reside or where the presence of unwanted sound could otherwise adversely affect the use of the land. Noise-sensitive land uses are generally considered to include schools, hospitals, single-family dwellings, mobile home parks, churches, libraries, and recreation areas. Moderately noise-sensitive land uses typically include multi-family dwellings, hotels, motels, dormitories, out-patient clinics, cemeteries, golf courses, country clubs, athletic/tennis clubs, and equestrian clubs. Land uses that are considered relatively insensitive to noise include business, commercial, and professional developments. Land uses that are typically not affected by noise include: industrial, manufacturing, utilities, agriculture, undeveloped land, parking lots, warehousing, liquid and solid waste facilities, salvage yards, and transit terminals.

To describe the potential off-site project noise levels, twenty receiver locations in the vicinity of the project site were identified. Other sensitive land uses in the project study area that are located at greater distances than those identified in this noise study will experience lower noise levels than those presented in this report due to the additional attenuation from distance and the shielding of intervening structures.

R1 Location R1 represents the existing residence 9045 Clubhouse Blvd. Receiver R1 is placed in the private outdoor living area (backyard) facing the project site. A 24-hour noise measurement was taken near this location, L1, to describe the existing ambient noise environment.

R2 Location R2 represents the existing residence at 64537 Spyglass Ave. Receiver R2 is placed in the private outdoor living area (backyard) facing the project site. A 24-hour noise measurement was taken near this location, L2, to describe the existing ambient noise environment.

R3 Location R3 represents the existing residence at 9100 Oakmount Blvd. Receiver R3 is placed in the private outdoor living area (backyard) facing the project site. A 24-hour noise measurement was taken near this location, L3, to describe the existing ambient noise environment.

R4 Location R4 represents the existing residence at 66334 San Juan Rd. Receiver R4 is placed in the private outdoor living area (backyard) facing the project site. A 24-hour noise measurement was taken near this location, L4, to describe the existing ambient noise environment.

R5 Location R5 represents the existing residence at 66402 Cactus Dr. Receiver R5 is placed in the private outdoor living area (backyard) facing the project site. A 24-hour noise measurement was taken near this location, L5, to describe the existing ambient noise environment.

R6 Location R6 represents the existing residence at 12256 Ambrosio Dr. Receiver R6 is placed in the private outdoor living area (backyard) facing the project site. A 24-hour noise measurement was taken near this location, L6, to describe the existing ambient noise environment.

R7 Location R7 represents the existing residence at 12550 Tamar Dr. Receiver R7 is placed in the private outdoor living area (backyard) facing the project site. A 24-hour noise measurement was taken near this location, L7, to describe the existing ambient noise environment.

R8 Location R8 represents the existing residence at 12780 Agua Cayendo Rd. Receiver R8 is placed in the private outdoor living area (backyard) facing the project site. A 24-hour noise measurement was taken near this location, L8, to describe the existing ambient noise environment.

R9 Location R9 represents the existing residence at 67600 Monterey Rd. Receiver R9 is placed in the private outdoor living area (backyard) facing the project site. A 24-hour noise measurement was taken near this location, L9, to describe the existing ambient noise environment.

R10 Location R10 represents the existing residence at 13080 Agua Cayendo Rd. Receiver R10 is placed in the private outdoor living area (backyard) facing the project site. A 24-hour noise measurement was taken near this location, L10, to describe the existing ambient noise environment.

R11 Location R11 represents the existing residence at 12550 Hidalgo St. Receiver R11 is placed in the private outdoor living area (backyard) facing the project site. A 24-hour noise measurement was

taken near this location, L11, to describe the existing ambient noise environment.

R12 Location R12 represents the existing residence at 13666 Hermano Way. Receiver R12 is placed in the private outdoor living area (backyard) facing the project site. A 24-hour noise measurement was taken near this location, L12, to describe the existing ambient noise environment.

R13 Location R13 represents the existing residence at 68272 C. Blanco. Receiver R13 is placed in the private outdoor living area (backyard) facing the project site. A 24-hour noise measurement was taken near this location, L13, to describe the existing ambient noise environment.

R14 Location R14 represents the existing residence at 12100 Highland Ave. Receiver R14 is placed in the private outdoor living area (backyard) facing the project site. A 24-hour noise measurement was taken near this location, L14, to describe the existing ambient noise environment.

R15 Location R15 represents the existing residence at 12690 Avenida Alta Loma. Receiver R15 is placed in the private outdoor living area (backyard) facing the project site. A 24-hour noise measurement was taken near this location, L15, to describe the existing ambient noise environment.

R16 Location R16 represents the existing residence at 12110 Redbud Rd. Receiver R16 is placed in the private outdoor living area (backyard) facing the project site. A 24-hour noise measurement was taken near this location, L16, to describe the existing ambient noise environment.

R17 Location R17 represents the existing residence at 12565 Skyline Dr. Receiver R17 is placed in the private outdoor living area (backyard) facing the project site. A 24-hour noise measurement was taken near this location, L17, to describe the existing ambient noise environment.

R18 Location R18 represents the existing residence at 12775 Beech Ave. Receiver R18 is placed in the private outdoor living area (backyard) facing the project site. A 24-hour noise measurement was taken near this location, L18, to describe the existing ambient noise environment.

R19 Location R19 represents the existing residence at 64050 18th Ave. Receiver R19 is placed in the private outdoor living area (backyard) facing the project site. A 24-hour noise measurement was taken near this location, L19, to describe the existing ambient noise environment.

R20 Location R20 represents the existing residence at 17725 Covey St. Receiver R20 is placed in the private outdoor living area (backyard) facing the project site. A 24-hour noise measurement was taken near this location, L20, to describe the existing ambient noise environment.

Impact Analysis

a. *Less Than Significant With Mitigation Incorporated –*

Operational Noise Analysis

The project would construct new sewer lines and abate existing septic systems. None of the new systems would represent new long-term noise sources, nor would they generate new traffic on local

roadways. Therefore, operational noise impacts would be less than significant.

Construction Noise Analysis

This section analyzes potential impacts resulting from the short-term construction activities associated with the development of the project. **Figure XIII-3** shows the on-site construction noise source activity, including the off-site roadway and utility improvements, in relation to the nearest sensitive receiver locations previously described above.

Construction Noise Levels

The FTA Transit Noise and Vibration Impact Assessment Manual recognizes that construction projects are accomplished in several different stages and outlines the procedures for assessing noise impacts during construction. Each stage has a specific equipment mix, depending on the work to be completed during that stage. As a result of the equipment mix, each stage has its own noise characteristics; some stages have higher continuous noise levels than others, and some have higher impact noise levels than others. The project construction activities are expected to occur in the following stages:

- Pavement Removal/Demolition
- Road Base/Trenching
- Pipeline Placement
- Paving
- Septic System Abatement

Construction Reference Noise Levels

To describe construction noise activities, this construction noise analysis was prepared using reference construction equipment noise levels from the Federal Highway Administration (FHWA), which published the Roadway Construction Noise Model (RCNM), which includes a national database of construction equipment reference noise emission levels. The RCNM equipment database provides a comprehensive list of the noise-generating characteristics of specific types of construction equipment. In addition, the database provides an acoustical usage factor to estimate the fraction of time each piece of construction equipment is operating at full power (i.e., its loudest condition) during a construction operation. According to the EPA, FTA, and FHWA, the overall construction noise level is governed primarily by the noisiest pieces of equipment. The quieter pieces do not affect the overall level, but they do reduce the magnitude of the fluctuations in the noise level. Therefore, a rough estimate of the noise level needs only include the noisiest pieces of equipment expected at the site. Consistent with FHWA and FTA guidance for detailed construction noise assessment, Table XIII-3 presents the combined noise levels for the loudest construction activities expected for each stage, assuming all equipment operates simultaneously.

Table XIII-3: Construction Reference Noise Levels

Construction Stage	Reference Construction Equipmnet[1]	Reference Noise Level @ 50 Feet (dBA L_{eq})	Composite Reference Noise Level (dBA L_{eq})	Reference Power Level (dBA L_w)
	Concrete Saw	83	84.1	115.7
	Backhoe	74		

Construction Stage	Reference Construction Equipmnet[1]	Reference Noise Level @ 50 Feet (dBA L_{eq})	Composite Reference Noise Level (dBA L_{eq})	Reference Power Level (dBA L_w)
Pavement Removal/ Demolition	Front End Loader	75		
Road Base/ Trenching	Excavator	77	79.5	111.2
	Compactor (ground)	76		
	Dozer	22		
Pipeline Placement	Excavator	77	79.6	111.3
	Front End Loader	75		
	Welder/Torch	70		
Paving	Paver	74	77.8	109.5
	Dump Truck	72		
	Roller	73		
Septic System Abatement	Backhoe	74	74.0	105.6

[1] FHWA Road Construction Noise Model.
[2] Update of noise database for prediction of noise on construction and open site expressed in hourly average L_{eq} based on estimated usage factor.

Construction Noise Results (Daytime)

Construction projects involve various stages, and activities frequently shift from one location to another. For example, during site preparation and grading, noise-generating activities may concentrate in an area for a short period to remove an obstruction, while the majority of the grading involves the equipment moving back and forth in a predictable pattern throughout the site; building construction and foundation work generally concentrate near the building footprint, while paving generally involves a predictable pattern of movement throughout the site. Therefore, construction activities are best evaluated as multiple moving point sources within the construction area since the speed and power of the equipment vary, and the equipment constantly changes position in terms of its distance and direction relative to the receivers. Using the reference construction equipment noise levels and the CadnaA noise prediction model, calculations of the project construction noise level impacts by phase at the nearby sensitive receiver locations were completed. To account for the dynamic nature of construction activities, the CadnaA construction noise analysis evaluates the noise source activities as multiple moving point sources, or construction crews, within the limits of construction. Construction impacts are based on the loudest activity and the highest noise level calculated at each receiver location. As shown in Table XIII-4, the construction noise levels are expected to range from 48.0 to 61.1 dBA Leq at the nearby receiver locations.

Daytime Sewer Pipeline Construction Noise Level Compliance

To evaluate whether the project will generate potentially significant short-term noise levels at the nearest receiver locations, a construction-related daytime noise level threshold of 80 dBA Leq is used as a reasonable threshold to assess the daytime construction noise level impacts. The construction noise analysis shows that the nearest receiver locations will satisfy the reasonable daytime 80 dBA Leq significance threshold during project construction activities, as shown in Table

XIII-5. Therefore, the noise impacts due to the project construction noise are considered less than significant at all receiver locations.

Table XIII-4: Daytime Construction Equipment Noise Level Summary

Receiver Location[1]	Pavement Removal/ Demolition	Road Base/ Trenching	Pipeline Placement	Paving	Highest Levels[2]
R1	66.5	62.0	62.0	60.3	66.5
R2	74.1	69.6	69.6	67.9	74.1
R3	71.4	66.9	66.9	65.2	71.4
R4	74.5	70.0	70.0	68.3	74.5
R5	71.5	67.0	67.0	65.3	71.5
R6	75.2	70.7	70.7	69.0	75.2
R7	72.3	67.8	67.8	66.1	72.3
R8	72.4	67.9	67.9	66.2	72.4
R9	72.3	67.8	67.8	66.1	72.3
R10	72.2	67.7	67.7	66.0	72.2
R11	63.8	59.3	59.3	57.6	63.8
R12	70.7	66.2	66.2	64.5	70.7
R13	71.8	67.3	67.3	65.6	71.8
R14	69.5	65.0	65.0	63.3	69.5
R15	70.4	65.9	65.9	64.2	70.4
R16	70.9	66.4	66.4	64.7	70.9
R17	71.2	66.7	66.7	65.0	71.2
R18	72.5	68.0	68.0	66.3	72.5
R19	45.9	41.4	41.4	39.7	45.9
R20	44.6	40.1	40.1	38.4	44.6

[1] Construction noise source and receiver locations are shown on **Figure XIII-3**.
[2] Construction noise level calculations based on distance from the construction activity, which is measured from the project site boundary to the nearest receiver locations. CadnaA construction noise model inputs are included in Appendix 8.1 of NVA.

Table XIII-5: Construction Noise Level Compliance

Receiver Location[1]	Construction Noise Levels (dBA L_{eq})		
	Highest Construction Noise Levels[2]	Threshold[3]	Threshold Exceeded?[4]
R1	66.5	80	No
R2	74.1	80	No
R3	71.4	80	No
R4	74.5	80	No
R5	71.5	80	No
R6	75.2	80	No

Receiver Location[1]	Construction Noise Levels (dBA L_{eq})		
	Highest Construction Noise Levels[2]	Threshold[3]	Threshold Exceeded?[4]
R7	72.3	80	No
R8	72.4	80	No
R9	72.3	80	No
R10	72.2	80	No
R11	63.8	80	No
R12	70.7	80	No
R13	71.8	80	No
R14	69.5	80	No
R15	70.4	80	No
R16	70.9	80	No
R17	71.2	80	No
R18	72.5	80	No
R19	45.9	80	No
R20	44.6	80	No

[1] Construction noise source and receiver locations are shown in **Figure XIII-3**.
[2] Highest construction noise level calculations based on distance from the construction noise source activity to the nearest receiver locations, as shown in Table XIII-5.
[3] Construction noise level thresholds as shown in Table XIII-1
[4] Do the estimated Project construction noise levels exceed the construction noise level threshold?

Sewer Pipelines Daytime Construction Noise Level Increases

To describe the temporary project construction noise level contributions to the existing ambient noise environment, the project construction noise levels were combined with the existing ambient noise levels measurements at the nearest off-site receiver locations. The difference between the combined project-construction and ambient noise levels is used to describe the construction noise level contributions. Temporary noise level increases that would be experienced at sensitive receiver locations when project construction noise is added to the ambient daytime conditions are presented in Table XIII-6. A temporary noise level increase of 20 dBA is considered a potentially significant impact, which is used to assess the project-construction noise level increases.

As indicated in Table XIII-6, the project will contribute to construction noise increases ranging from less than 0.1 to 19.9 dBA L_{eq} during the daytime hours at the nearest receiver locations. The unmitigated construction noise analysis shows that the nearest receiver locations will not exceed the 20 dBA L_{eq} substantial noise level increase significance threshold during project construction activities. The temporary construction noise level increase analysis shows that the noise impacts due to the project construction noise are considered less than significant.

Table XIII-6: Daytime Construction Noise Level Summary

Receiver Location[1]	Typical Project Construction Noise Level[2]	Measurement Location[3]	Reference Ambient Noise Levels[4]	Combined Project and Ambient[5]	Project Increase[6]	Increase Criteria[7]	Increase Criteria Exceeded?
R1	49.1	L1	55.7	56.6	0.9	20	No
R2	56.7	L2	59.2	61.1	1.9	20	No
R3	54.0	L3	57.6	59.2	1.6	20	No
R4	57.1	L4	49.8	57.8	8.0	20	No
R5	54.1	L5	56.2	58.3	2.1	20	No
R6	57.8	L6	62.3	63.6	1.3	20	No
R7	54.9	L7	54.9	57.9	3.0	20	No
R8	55.0	L8	48.4	55.9	7.5	20	No
R9	54.9	L9	59.0	60.4	1.4	20	No
R10	54.8	L10	52.2	56.7	4.5	20	No
R11	46.4	L11	50.5	51.9	1.4	20	No
R12	53.3	L12	56.6	58.3	1.7	20	No
R13	54.4	L13	51.9	56.3	4.4	20	No
R14	52.1	L14	53.4	55.8	2.4	20	No
R15	53.0	L15	56.8	58.3	1.5	20	No
R16	53.5	L16	46.9	54.4	7.5	20	No
R17	53.8	L17	53.3	56.6	3.3	20	No
R18	55.1	L18	50.3	56.3	6.0	20	No
R19	28.5	L19	65.3	65.3	0.0	20	No
R20	27.2	L20	61.7	61.7	0.0	20	No

[1] Construction noise source and receiver locations are shown in **Figure XIII-3**.
[2] Typical project daytime construction noise levels as shown in Table XIII-5.
[3] Reference noise level measurement locations as shown on Exhibit XIII-1.
[4] Observed daytime ambient noise levels as shown in Table XIII-1.
[5] Represents the combined ambient conditions plus the project construction activities.
[6] The noise level increase expected with the addition of the proposed project construction activities.
[7] Caltrans Traffic Noise Analysis Protocol.

Construction Noise Results (Nighttime)

It is our understanding that nighttime activities may occur as part of the project pipeline construction activities. Nighttime activities are often required to reduce traffic impacts in the area during daytime hours.

Nighttime Construction Reference Noise Levels

To estimate the noise levels due to nighttime activities, sample reference noise level measurements were taken from Table XIII-3. However, due to the known high noise levels associated with construction activity, no nighttime construction would occur within 500 feet of residential land uses, no nighttime construction would occur, additionally, no demolition or pavement removal would occur during nighttime hours. While the project noise levels will depend on the actual duration of activities and specific equipment fleet in use at the time of construction, the reference sound power

level of 95.3 dBA Lw is used to describe the expected project nighttime construction activities at 500 feet.

Nighttime Construction Noise Level Compliance

As shown in Table XIII-7, the noise levels associated with the nighttime construction activities are estimated to range from 24.2 to 54.4 dBA Leq and will satisfy the MSWD stationary-source nighttime exterior hourly average L_{eq} residential noise level threshold at all the receiver locations. Based on the results of this analysis, all the nearest noise receiver locations will experience less than significant impacts due to the project-related nighttime construction activities.

Table XIII-7: Nighttime Noise Level Compliance

Receiver Location[1]	Nighttime Construction Noise Levels (dBA L_{eq})		
	Exterior Noise Levels[2]	Threshold[3]	Threshold Exceeded?[4]
R01	44.2	70	No
R02	48.6	70	No
R03	50.3	70	No
R04	53.2	70	No
R05	50.8	70	No
R06	54.4	70	No
R07	51.3	70	No
R08	50.4	70	No
R09	51.5	70	No
R10	50.2	70	No
R11	48.1	70	No
R12	48.9	70	No
R13	51.1	70	No
R14	48.9	70	No
R15	49.6	70	No
R16	50.1	70	No
R17	49.1	70	No
R18	51.1	70	No
R19	25.5	70	No
R20	24.2	70	No

[1] Construction noise source and receiver locations are shown on **Figure XIII-3**.
[2] Nighttime noise model inputs are included in Appendix 8.2 of the NVA.
[3] Construction noise level thresholds as shown in Table XIII-3.
[4] Do the estimated project construction noise levels exceed the construction noise level threshold?

To describe the nighttime noise-level contributions from construction activity, the nighttime construction noise levels were combined with the existing nighttime ambient noise levels measurements at the nearest off-site receiver locations. The difference between the combined project-construction and ambient noise levels is used to describe the construction noise level increases. Temporary noise increases that would be experienced at sensitive receiver locations when

the typical project construction-source noise is added to the ambient conditions are presented in Table XIII-8. As indicated in Table XIII-8, the project nighttime construction activities will contribute to noise increases ranging from less than 0.1 to 5.0 dBA Leq during the nighttime hours at the nearest receiver locations. The unmitigated nighttime construction noise analysis shows that the nearest receiver locations will not exceed the nighttime 5 dBA noise increase threshold during nighttime construction activities. Therefore, the nighttime construction noise increase analysis shows that the noise impacts due to project nighttime construction noise are less than significant.

Table XIII-8: Nighttime Construction Noise Increases

Receiver Location[1]	Typical Project Construction Noise Level[2]	Measurement Location[3]	Reference Ambient Noise Levels[4]	Combined Project and Ambient[5]	Project Increase[6]	Increase Criteria[7]	Increase Criteria Exceeded?
R1	44.2	L1	53.2	53.7	0.5	5	No
R2	48.6	L2	55.4	56.2	0.8	5	No
R3	50.3	L3	57.2	58.0	0.8	5	No
R4	53.2	L4	52.4	55.8	3.4	5	No
R5	50.8	L5	55.6	56.8	1.2	5	No
R6	54.4	L6	57.2	59.0	1.8	5	No
R7	51.3	L7	54.4	56.1	1.7	5	No
R8	50.4	L8	47.1	52.1	5.0	5	No
R9	51.5	L9	54.6	56.3	1.7	5	No
R10	50.2	L10	50.7	53.5	2.8	5	No
R11	48.1	L11	45.4	50.0	4.6	5	No
R12	48.9	L12	51.5	53.4	1.9	5	No
R13	51.1	L13	53.0	55.2	2.2	5	No
R14	48.9	L14	50.5	52.8	2.3	5	No
R15	49.6	L15	52.3	54.2	1.9	5	No
R16	50.1	L16	49.4	52.8	3.4	5	No
R17	49.1	L17	57.9	58.4	0.5	5	No
R18	51.1	L18	51.0	54.1	3.1	5	No
R19	25.5	L19	65.7	65.7	0.0	5	No
R20	24.2	L20	60.3	60.3	0.0	5	No

[1] Construction noise source and receiver locations are shown on **Figure XIII-3**.
[2] Typical project daytime construction noise levels as shown in Table XIII-5.
[3] Reference noise level measurement locations as shown on Exhibit XIII-1.
[4] Observed daytime ambient noise levels as shown in Table XIII-1.
[5] Represents the combined ambient conditions plus the project construction activities.
[6] The noise level increase expected with the addition of the proposed project construction activities.
[7] Caltrans Traffic Noise Analysis Protocol.

Septic Tank Abatement

Septic tank abatement includes pumping out all contents, followed by filling it with inert material like sand or gravel. The tank is disconnected from any riser pipes or drain field parts. After the tank is properly abated, it is completely covered with soil. Equipment would include a vacuum truck to

empty the tank contents, a small backhoe to expose the tank, and a dump truck to bring the fill material. The operation of this equipment in the immediate area is likely to result in noise levels of approximately 74 dBA L_{eq} at 50 feet. However, these activities would only occur during daytime hours and would be coordinated with homeowners to avoid exposing residents to excessive noise levels. Therefore, construction noise impacts during septic tank removal are considered less than significant.

Conclusion

Both long-term and temporary noise generated by project implementation would be less than significant. No mitigation is required.

b. *Less Than Significant Impact* – Vibration is the periodic oscillation of a medium or object. The rumbling sound caused by vibration of room surfaces is called structure borne noises. Sources of groundborne vibrations include natural phenomena (e.g. earthquakes, volcanic eruptions, sea waves, landslides) or human-made causes (e.g. explosions, machinery, traffic, trains, construction equipment). Vibration sources may be continuous or transient. Vibration is often described in units of velocity (inches per second), and discussed in decibel (VdB) units in order to compress the range of numbers required to describe vibration. Vibration impacts related to human development are generally associated with activities such as train operations, construction, and heavy truck movements.

Construction Vibration Analysis

Construction activity can result in varying degrees of ground vibration, depending on the equipment and methods employed. The operation of construction equipment causes ground vibrations that spread through the ground and diminish in strength with distance. Ground vibration levels associated with various types of construction equipment are summarized in Table 8-6. Based on the representative vibration levels presented for various construction equipment types, it is possible to estimate the potential for human response (annoyance) and building damage using the following vibration assessment methods defined by Caltrans. To describe the vibration impacts Caltrans provides the following equation: $PPV_{equip} = PPV_{ref} \times (25/D)^{1.5}$

Table XIII-9: Vibration Source Levels for Construction Equipment

Equipment	PPV (in/sec) at 25 feet
Small bulldozer	0.003
Jackhammer	0.035
Loaded Trucks	0.076
Large bulldozer	0.089
Vibratory Roller	0.210
Federal Transit Administration, Transit Noise and Vibration Impact Assessment Manual	

Using the vibration source level of construction equipment provided in Table XIII-9 and the construction vibration assessment methodology published by the FTA, it is possible to estimate the project vibration impacts. The nearest occupied residences to pavement removal and paving activities are approximately 20 feet away. At distances ranging as close as 20 feet from project construction activities, construction vibration velocity levels are estimated to range up to 0.29 PPV

in/sec. During paving activities, when vibratory rollers are used. Based on the maximum acceptable continuous vibration threshold of 0.30 PPV (in/sec), the typical project construction vibration levels will fall below the building damage thresholds at all the vibration-sensitive receiver locations. Therefore, the project-related vibration impacts are considered less than significant during typical construction activities at the project site.

c. *No Impact* – As stated under issue IX(e), the Palm Springs International Airport is the closest airport to the proposed GQPP Septic to Sewer Project. Based on a review of Google Maps, the proposed GQPP Septic to Sewer Project footprint is located, at a minimum, approximately 3.6 miles north of the Palm Springs International Airport, located in the City of Palm Springs. The proposed project footprint is not located within the noise contours identified in the Palm Springs International Airport section of the Riverside County Airport Land Use Commission's Compatibility Plan (**Figure IX-10**).[9] Given the large distance between the proposed project and nearby airports, project implementation would have no potential to expose people residing or working in the project area to excessive noise levels generated by nearby aircraft or airport operations. No impacts are anticipated and no mitigation is required.

[9] Riverside County, 2005. *Riverside County Airport Land Use Compatibility Plan Policy Document.* https://rcaluc.org/sites/g/files/aldnop421/files/migrated/Portals-13-PDFGeneral-plan-newplan-18--20Vol.-201-20Palm-20Springs-20International.pdf (Accessed 12/09/25)

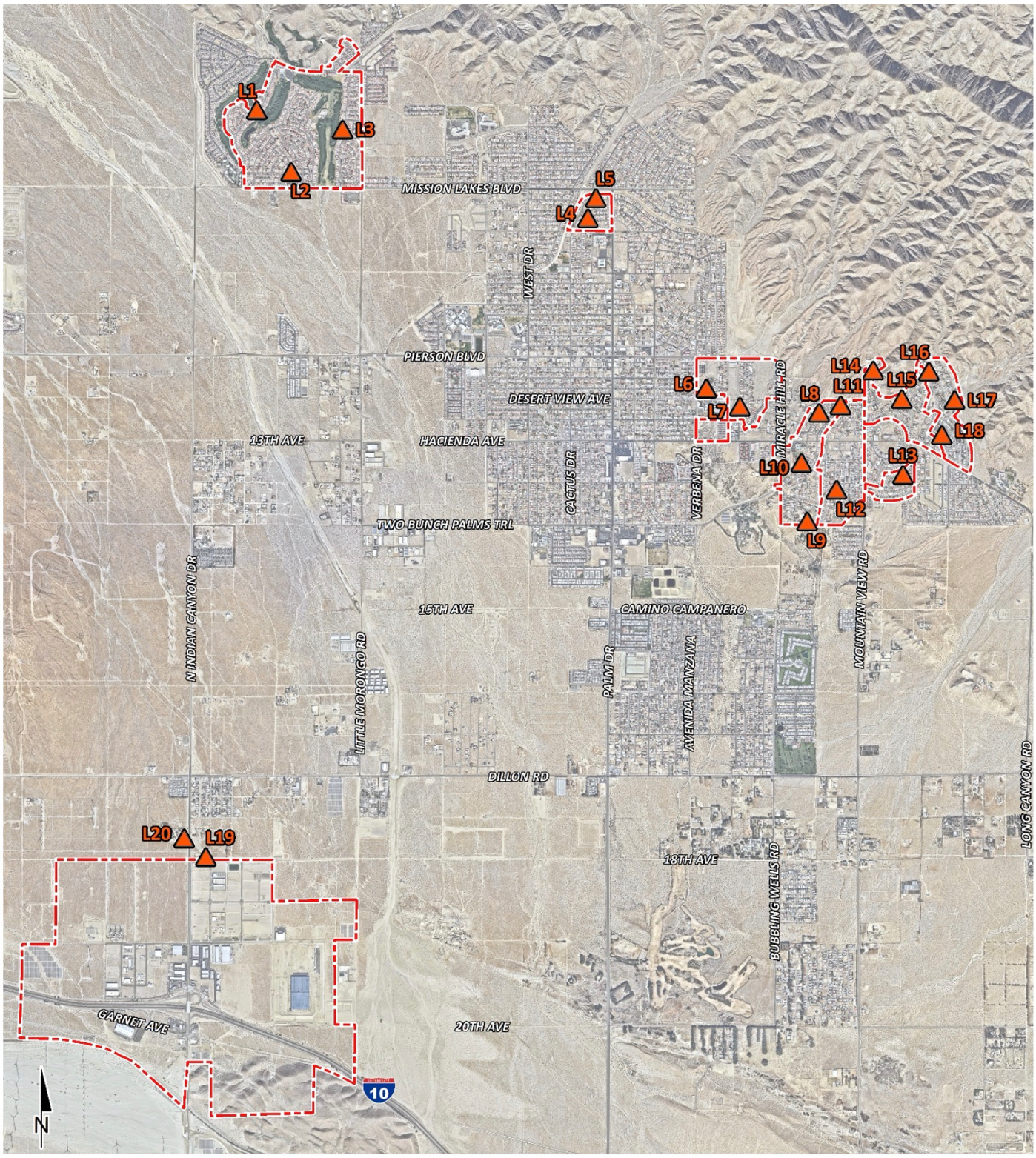


FIGURE XIII-1

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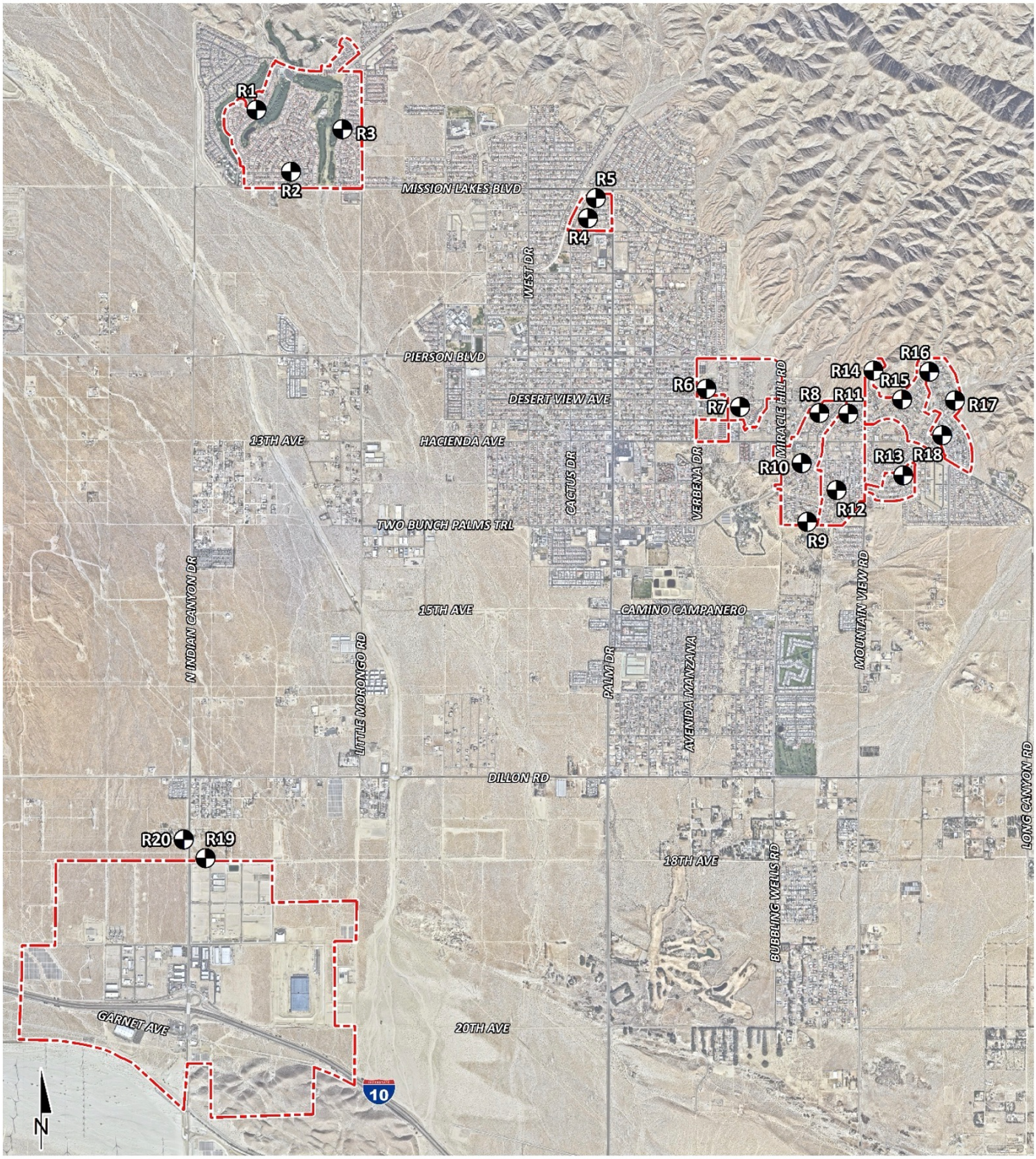
Environmental Consultants

Noise Measurement Locations



LEGEND:

Site Boundary Receiver Locations

FIGURE XIII-2

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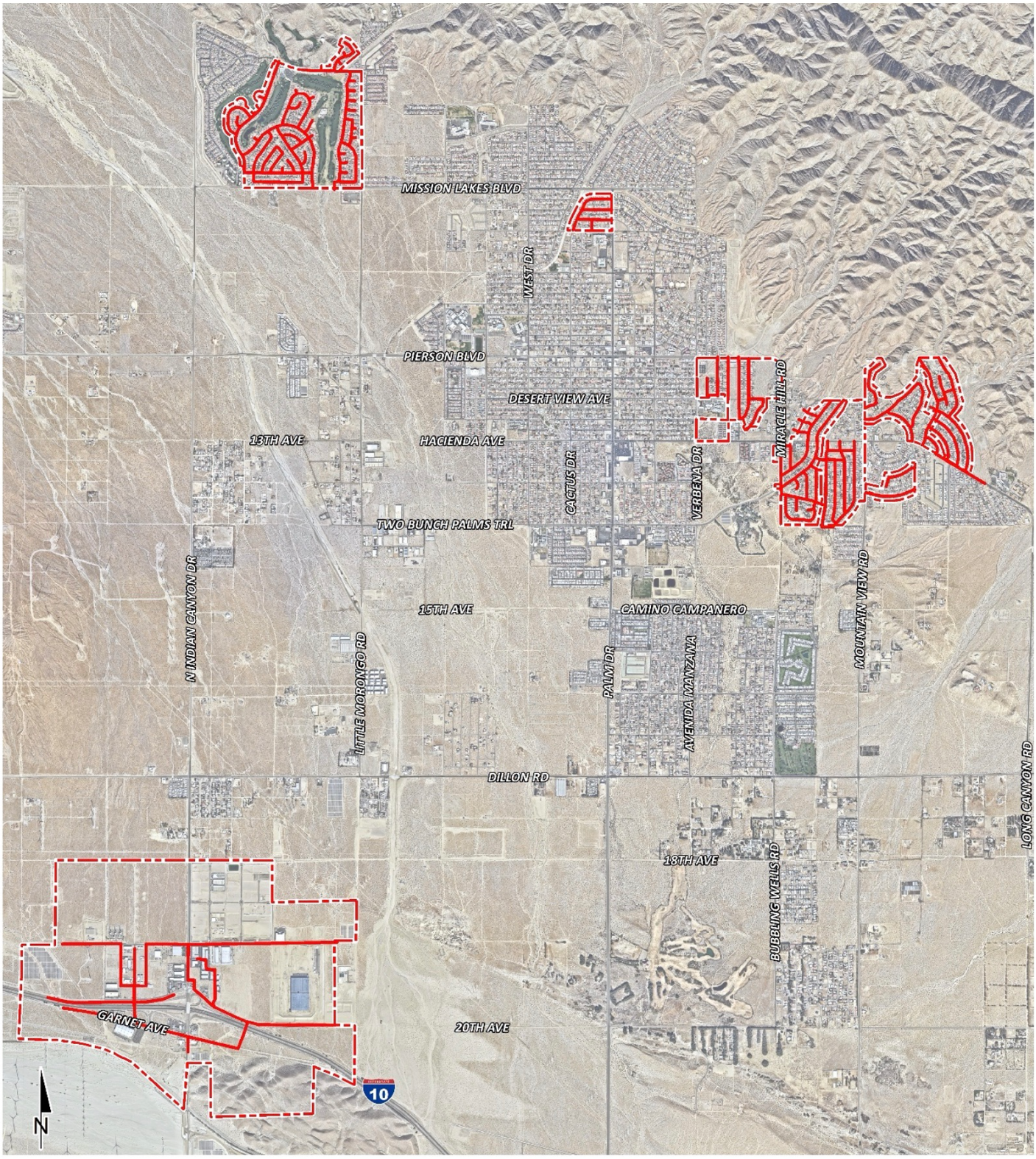
Environmental Consultants

Noise Sensitive Receptors



LEGEND:

Site Boundary Sewer Line Construction

FIGURE XIII-3

Tom Dodson & Associates
Environmental Consultants

Construction Locations

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact or Does Not Apply
XIV. POPULATION AND HOUSING: Would the project:				
a) Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?	☐	☐	☒	☐
b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?	☐	☐	☐	☒

SUBSTANTIATION

Impact Analysis

a. *Less Than Significant Impact* – Implementation of the project will not induce substantial population growth in the area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure). According to the Southern California Association of Governments (SCAG), the total population of Desert Hot Springs in 2022 was 32,276 persons.[10] SCAG indicates that the total population of the City of Palm Springs in 2022 was 44,007, while the population of Unincorporated Riverside County was 397,762 persons during this same period. The City of Desert Hot Springs General Plan notes that the City's population is anticipated to grow to 88,476 residents by 2040. The City of Palm Springs General Plan notes that the City's population is anticipated to grow to 65,340 residents by 2040 utilizing a seasonal occupancy rate of 65%. The County of Riverside General Plan notes that the County's Unincorporated population is anticipated to grow to 909,071 residents by 2035. This indicates that the City plans for population growth in the future.

Construction of the proposed infrastructure would require temporary employment. It is reasonable to assume that the majority of the construction employment opportunities would be filled by workers living within Southern California. They would become part of the Coachella Valley's temporary population during the ten year horizon of construction. Locally available temporary housing for about 21 construction employees would be required during this period of time to support project development. Adequate temporary housing resources are available within the project area that can accommodate a temporary housing population, particularly given that the City of Desert Hot Springs, City of Palm Springs, and County of Riverside plan for population growth to occur between now (2025) and 2035/2040. Therefore, the potential temporary increase in new residents within the project area is forecast to be nominal, i.e., a less than significant impact.

No additional employees will be required to support the proposed project once the sewer pipelines

[10] SCAG, 2023. Local Profiles. https://hub.scag.ca.gov/documents/7f0208030a964f7cb486d8b69daec83b/about (Accessed 12/25/25)

and laterals have been installed and are fully operational. As a result, the proposed project would have a less than significant potential to induce substantial population growth in an area, either directly or indirectly.

b. *No Impact* – Implementation of the project will not displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere. The majority of the project would be installed within roadways or other ROW; however, the proposed project includes septic abatement within properties that would be connected to MSWD's municipal sewer service as a result of the proposed project. This would occur at existing septic tanks, and would have no bearing on project land use such that existing housing or persons would be displaced as a result of project implementation. Once installed the abated septic systems, pipelines, and laterals would all operate belowground, and would have no potential to impact any housing or persons. Therefore, implementation of the project as a whole will not displace any existing housing or displace a substantial number of people that would necessitate the construction of replacement housing elsewhere. No impacts are anticipated and no mitigation is required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact or Does Not Apply
XV. PUBLIC SERVICES: Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:				
a) Fire protection?	☐	☒	☐	☐
b) Police protection?	☐	☒	☐	☐
c) Schools?	☐	☐	☒	☐
d) Parks?	☐	☐	☒	☐
e) Other public facilities?	☐	☐	☒	☐

SUBSTANTIATION

Impact Analysis

a. *Less Than Significant With Mitigation Incorporated* – The City of Desert Hot Springs is currently served by the Riverside County Fire Department (RCFD). The majority of the project is located within the City of Desert Hot Springs or its Sphere of Influence (SOI) including Unincorporated Riverside County area, and thus would be served by RCFD (refer to **Figure IX-1**). The RCFD currently has two fire stations: Station #36 and Station #37, which, together, responded to approximately 5,746 calls in FY15.[11] Given that the population has not grown substantially over the last decade,[12] it is reasonable to assume that roughly the same number of calls are responded to on average yearly. These calls included medical emergencies, vegetation and structure fires, vehicle accidents, public assistance and false alarms. Station #37 and #36 are both located in the northern part of the City, located about 4-5 miles north of the project site.

Note that the City of Palm Springs is served by the Palm Springs Fire Department. It operates 5 Stations, with the closest station to the proposed project being Station 3 at 590 E Racquet Club Rd, Palm Springs, CA 92262. This station is located about 3 miles from Area I-10, which is the only Area of the proposed project that occurs within the City of Palm Springs. Palm Springs Fire Department provides a variety of public safety services, including fire protection, medical aid, rescue, hazardous materials response, and educational safety programs such as Community Emergency Response Team training. Other services include emergency alerts, the Community Risk Reduction program,

[11] City of Desert Hot Springs General Plan EIR (pg. 4.15-1)
[12] SCAG, 2023. Local Profiles. https://hub.scag.ca.gov/documents/7f0208030a964f7cb486d8b69daec83b/about (Accessed 12/25/25)

fire plan review and inspection, and wildfire preparedness. The City of Palm Springs indicates that There are a total of 21 on-duty firefighting personnel available during each 24-hour period. The Fire Department's five stations responded to approximately 12,000 calls for service in 2021.

The City of Palm Springs Fire Department records indicate that the number of responses has increased every year by approximately 5 to 7 percent. If needed, additional fire assistance can be provided by the nearby agencies and municipalities with whom Palm Springs has automatic- and mutual-aid agreements.

Construction of proposed sewer pipelines and laterals, and septic abatement would require temporary employment. It is unknown whether these employees would be drawn from within or outside the jurisdictions that fall within the project area or Coachella Valley area as a whole; however, as discussed under Subsection XIV, Population and Housing, above, it is reasonable to assume that many employment opportunities would be filled by workers drawn from the project area or its close proximity.

As discussed in construction activities associated with installation of the proposed sewer pipelines and laterals would have temporary effects on roadway vehicle flow and lane configurations at specific intersections and roadways due to potential lane and/or road closures, which would potentially impact emergency access and response times in the project area. Construction activities could also temporarily block access to some roadways and driveways that are currently used by emergency response vehicles or in emergency evacuations, which could result in a potentially significant impact. **MMs TRAN-1 and WF-1** would require implementation of transportation control measures and coordination with emergency response providers to minimize impacts to emergency access in the project construction area(s) due to lane and/or road closures during project construction. Therefore, implementation of **MMs TRAN-1 and WF-1** would reduce construction impacts related to fire protection and emergency response service response times to a less than significant level. Additionally, during construction, because there are areas within the northern portion of Area A that are designated as high and very high FHSZ within an SRA per CAL FIRE as demonstrated on **Figure IX-12**. As a result, construction may exacerbate fire risk temporarily as a result of accidental sparks generated by spark-producing equipment, which could result in a potentially significant impact on fire protection and emergency response. As such, the **MM WF-2** is required, which would minimize fire risk during activities that would utilize spark-producing equipment by requiring spark arrestors for construction equipment that could create a spark, and requiring construction crews and vehicles to have access to functional fire extinguishers and fire prevention equipment at all times during construction. Implementation of **MM WF-2** is required to ensure that construction of the proposed project would not significantly contribute to the need for fire protection and emergency response services. Thus, project construction activities would have a less than significant impact to contribute to the need for fire protection and emergency response services with the implementation of mitigation.

Operation and maintenance of the proposed infrastructure would be anticipated to be provided primarily by existing water and wastewater agency personnel. Thus, there would be no potential increase in potential new residents within the project area that would contribute to a minimal increased demand for fire protection services. Implementation of this project is not forecast to change land uses or otherwise create activities that could increase demand for additional fire protection services beyond that anticipated in the General Plans of the local jurisdictions within the

project area (City of Desert Hot Springs, Unincorporated Riverside County, and City of Palm Springs). Operation of the project would not result in any hazardous conditions that could involve fire protection or emergency response. Thus, there would be no impacts as a result of project sewer pipeline and laterals operation. As a result, no new fire protection facilities or altered facilities would be required.

b. *Less Than Significant With Mitigation Incorporated* – The proposed project site is located within the southern portion of the City of Desert Hot Springs. The City of Desert Hot Springs Police Department provides the citizens of its Planning Area with police services and protection, which includes the City's SOI within which Area A is located. According to the City's General Plan EIR, Service is primarily provided from the Police Department Office at 65-950 Pierson Blvd, which is about 4 miles north of the project footprint. Additional personnel are provided at a satellite office at the Police Neighborhood Office at 66140 West Arroyo located in Tedesco Park. Police services are dispatched from the Police Department Office, but the satellite office is centrally located for greater police presence in the neighborhood and efficient response.

The City of Palm Springs is served by the Palm Springs Police Department,[13] which offers response service, criminal investigation, traffic enforcement, and preventive patrol for the City. Although many private, gated communities have internal security for their residents, the Police Department still provides all law enforcement services. The Police Department's two divisions, Operations and Support Services, employ 100 sworn and 49 civilian personnel. Operations include patrol, jail, and airport operations. Support services include investigation, records, animal control, and communications. According to the City of Palm Springs General Plan, in 2021, the Department responded to 75,395 calls for service, an increase of approximately 35,000 calls since 2010. The desired response times for priority one calls (emergencies) and priority two calls (non-emergencies) are 5 minutes and 30 minutes, respectively. The Palm Springs Police Department has mutual-aid agreements with other local law enforcement agencies in the event of a major incident that exceeds the Department's resources.

Construction of the proposed sewer pipelines and laterals, and septic abatement would require temporary employment. It is unknown whether these employees would be drawn from within or outside the project area; however, as discussed under Subsection XIV, Population and Housing, it is reasonable to assume that many employment opportunities would be filled by workers drawn from the project area or its close proximity. Similar to the discussion under issue (a) above, the development of the proposed sewer pipelines and laterals, and septic abatement would not cause a substantial temporary increase in population that would substantially increase demand for police protection services. Construction of the project is not forecast to change land uses or otherwise create activities that could increase demand, even temporarily, for additional police protection services beyond that which is anticipated in the respective jurisdiction's General Plan. It is anticipated that the construction equipment and active construction areas would be fenced in and contain security lighting, which would minimize the future need for police protection from trespass, furthermore, many of the proposed facilities would be installed within existing facilities, which presently receive police protection services. Though a significant demand for police protection services is not anticipated, **MM PS-1** is proposed to address trespass issues, and thereby minimize

[13] City of Palm Springs. Palm Springs 2040 General Plan Safety Element. https://www.palmspringsca.gov/home/showpublisheddocument/91803/638829838553230000 (Accessed 12/23/25)

the potential for increased police protection service demands. Thus, impacts would be less than significant through the implementation of mitigation.

PS-1 ***The project construction equipment shall be fenced or otherwise have access controlled at the close of each work day. Furthermore, the project shall include security lighting to deter illegal trespass to attractive nuisances as part of construction. The security lighting shall be shielded from adjacent sensitive receptors in accordance with the jurisdiction within which construction occurs Municipal Code.***

Operation of the sewer pipelines and laterals is not forecast to require any new permanent employees. Similar to the discussion under issue (a) above, the development of the proposed sewer pipelines and laterals would not cause a substantial increase in population that would substantially increase demand for police protection services. Implementation of the project is not forecast to change land uses or otherwise create activities that could increase demand for additional police protection services beyond that which is anticipated in the respective jurisdiction's General Plan. Overall levels of police service would be increased based upon the future population growth and demands of the local agencies within the City of Desert Hot Springs, Unincorporated Riverside County, and City of Palm Springs. Operational activities associated with the sewer pipelines and laterals, as these facilities are located belowground, are unlikely to increase the demand for police protection services, and is not anticipated to require police department service. Thus, no impacts are anticipated.

c. *Less Than Significant Impact* – The proposed project is located within the Palm Springs Unified School District (refer to **Figure XV-1**). Construction of the proposed sewer pipelines and laterals, and septic abatement would require temporary employment. It is unknown whether these employees would be drawn from within or outside the project area; however, as discussed under Subsection XIV, Population and Housing, it is reasonable to assume that many employment opportunities would be filled by workers drawn from the project area or its close proximity. Similar to the discussion under issue (a) above, the development of the proposed sewer pipelines and laterals, and septic abatement are not forecast to change existing land uses or increase either the number of residential units located within the project area or the number of students generated from the project Valley area beyond those which are anticipated by the local jurisdictions' General Plans. The Palm Springs Unified School District has adopted classroom loading standards (number of students per classroom) and collects development fees per square foot of residential, commercial, and industrial development. Because the construction of the project would only create a temporary workforce, and would not increase housing, or create activities that can increase demand for additional school capacity beyond that anticipated in the local jurisdictions' General Plans, and because there are adopted standards and development fees are collected for new development, construction impacts related to demand for school services would be less than significant.

Similar to the discussions under Fire and Police Protection (issues [a] and [b]), above, the development of the proposed sewer pipelines and laterals, and septic abatement would not cause a substantial increase in demand for schools. As discussed above, the proposed project is not anticipated to generate any new permanent employees, and therefore would not create an increase in demand for school services. The Palm Springs Unified School District has adopted classroom loading standards (number of students per classroom) and collects development fees per square foot of residential, commercial, and industrial development. Because the project is not forecast to

consist of any of these types of land use, as it would not change land uses, increase housing, or create activities that can increase demand for additional school capacity beyond that anticipated in the local jurisdictions' General Plans, and because there are adopted standards and development fees are collected for new development, impacts related to demand for school services as a result of project operation would be less than significant.

d. *Less Than Significant Impact* – The project would not include construction of new homes or businesses. Therefore, the implementation of proposed sewer pipelines and laterals, and septic abatement would not result in a direct increase in population or create a substantial number of new permanent jobs that would result in a substantial number of new residents within the project area. Construction of the proposed sewer pipelines and laterals, and septic abatement would require temporary employment. As discussed under Subsection XIV, Population and Housing, it is reasonable to assume the majority of the construction employment opportunities would be filled by workers living within the project area or in close proximity. The nominal potential increase in temporary new residents within the project area may contribute to a minimal, less than significant increased demand for parks. No impacts are anticipated.

Operation and maintenance of the proposed infrastructure would be anticipated to be provided primarily by existing water and wastewater agency personnel. Implementation of the proposed project will not impact any current or planned park use, as the project would not permanently alter the status of any existing land use within which septic abatement occurs, and further, the remainder of the project site would occur within roadways and other ROW. Thus, implementation of the proposed project would not cause a substantial adverse physical impact to any parks within the project area. Impacts are therefore considered less than significant, and no mitigation is required.

e. *Less Than Significant Impact* – Other public facilities include library and general municipal services. The library system in the City of Desert Hot Springs and Unincorporated Riverside County is operated by the Riverside County Library System. The library system in the City of Palm Springs is operated by the Palm Springs Public Library System. The project would not include construction of new homes or businesses. Therefore, the implementation of proposed sewer pipelines and laterals, and septic abatement would not result in a direct increase in population or create a substantial number of new permanent jobs that would result in a substantial number of new residents within the project area. Construction of the proposed sewer pipelines and laterals, and septic abatement would require temporary employment. As discussed under Subsection XIV, Population and Housing, it is reasonable to assume the majority of the construction employment opportunities would be filled by workers living within the project area or in close proximity. Construction of the sewer pipelines and laterals, and septic abatement is not forecast to change land uses or otherwise create activities that can increase demand for library services beyond that which is anticipated in the City of Desert Hot Springs, City of Palm Springs, or Riverside County General Plans. The nominal potential increase in temporary new residents within the project area as a result of construction would not contribute to a substantial increased demand for library and other services. No impacts are anticipated.

Operation and maintenance of the proposed infrastructure would be anticipated to be provided primarily by existing MSWD personnel. Implementation of the sewer pipelines and laterals, and septic abatement is not forecast to change land uses or otherwise create activities that can increase demand for library services beyond that which is anticipated in the City of Desert Hot Springs, City of Palm Springs, or Riverside County General Plans. The respective jurisdictions would increase

overall levels of library service based upon the future population within its jurisdiction. The implementation of the sewer pipelines and laterals, and septic abatement would not substantially increase demand for library or other public services and impacts would be less than significant.

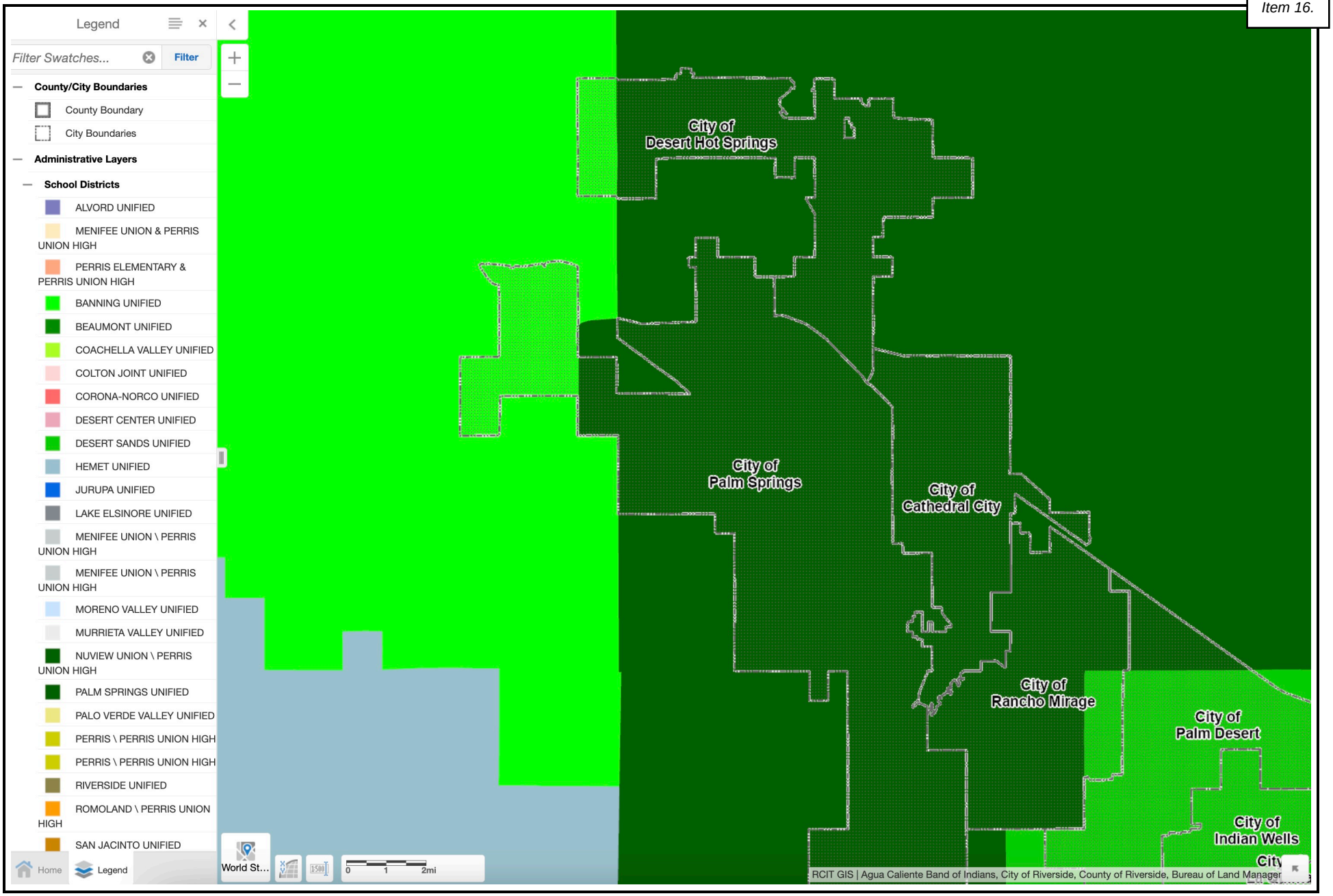


FIGURE XV-1

Tom Dodson & Associates
Environmental Consultants

Schools Map

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact or Does Not Apply
XVI. RECREATION:				
a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	☐	☐	☐	☒
b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?	☐	☐	☐	☒

SUBSTANTIATION

Impact Analysis

a. *No Impact* – As previously discussed in Section XIV, Population and Housing and Section XV, Public Services, construction of the proposed infrastructure would require temporary employment. As discussed previously, it is reasonable to assume the majority of the construction employment opportunities would be filled by workers living within the project area or in close proximity. The nominal potential increase in new residents within the project area may contribute to a minimal increased demand for parks and other recreational facilities. Nonetheless, because this proposed project would not substantially temporarily increase the population within the project area, construction of the proposed sewer pipelines and laterals, and septic abatement would not substantially increase use of existing neighborhood or regional parks or other recreational facilities. Thus, no impacts are anticipated.

The project would not include construction of new homes or businesses. Therefore, this project would not result in a direct increase in population or create a substantial number of new permanent jobs that would result in an increase in residents within the project area. Operation and maintenance of the proposed infrastructure would be anticipated to be provided by existing MSWD personnel. Because the project would not substantially increase the population within the project area, the project would not substantially increase use of existing neighborhood or regional parks or other recreational facilities.

Furthermore, analysis contained in Subsection XV(d) determined whether the project would increase the use of existing neighborhood and regional parks or other recreational facilities and physical deterioration thereof. As stated under Subsection XV(d), implementation of the proposed project will not impact any current or planned park or recreation use, as the project would not permanently alter the status of any existing land use within which septic abatement occurs, and further, the remainder of the project site would occur within roadways and other ROW. Thus, no impacts are anticipated.

b. *No Impact* – The proposed project does not include recreational facilities, nor does it require the

construction or expansion of recreational facilities. The proposed sewer pipelines and laterals would primarily be installed within roadways and other ROW. However, the laterals would connect to a variety of parcels that are presently utilizing septic, and would be altered in a minor way such that septic abatement would occur at over 2,040 locations within the GQPP Septic to Sewer Project footprint. None of these locations are anticipated to be located within recreational facilities or sites designated for such use. Therefore, the proposed project would not adversely impact existing parks or recreational facilities. Because the proposed improvements would not adversely impact existing parks or recreational facilities, no new or expanded park or recreational facility would be required with the implementation of the proposed facilities. Therefore, no adverse physical effect on the environment would occur related to new or expanded park or recreational facilities because the proposed improvements would not require new or expanded park or recreational facilities. Therefore, no impacts are anticipated.

No new or expanded park or recreational facilities are proposed as part of the operation of the project. Therefore, no adverse physical effect on the environment would occur related to the inclusion of recreational facilities as part of project operations which might have an adverse physical effect on the environment. Therefore, no impacts are anticipated.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact or Does Not Apply
XVII. TRANSPORTATION: Would the project:				
a) Conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?	☐	☒	☐	☐
b) Conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?	☐	☐	☒	☐
c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous inter-sections) or incompatible uses (e.g., farm equipment)?	☐	☒	☐	☐
d) Result in inadequate emergency access?	☐	☒	☐	☐

SUBSTANTIATION

Impact Analysis

a. *Less Than Significant With Mitigation Incorporated* — MSWD proposes to install 142,000 LF of 8-inch sewer pipeline within Areas A, D-3, G, H, I, J-2, K, and along the I-10 corridor to eliminate septic tanks that threaten contamination of potable groundwater supplies by expanding MSWD's wastewater collection system. This project also includes abating more than 2,040 septic tanks, and connecting 2,600 parcels to the District's sewer collection system, as well as installation of an estimated 2,500 new 4- to 6-inch service laterals. The proposed project will install the new sewer pipeline and laterals belowground within existing roadways, and compacted dirt right-of-way.

The proposed project would occur within the Cities of Palm Springs, Desert Hot Springs, and Unincorporated Riverside County. A majority of the project is shown on maps prepared for the City of Desert Hot Springs General Plan, as a majority of the project area is within the City or its SOI. **Figure XVII-1** depicts the City of Desert Hot Springs Roadway Plan, and indicates that there are several primary, Secondary, and Collector streets within which construction of pipelines would occur as part of the proposed project. **Figure XVII-2** depicts the City of Desert Hot Springs Bicycle Plan Map and indicates that there are several roadways containing bike lanes within which construction of pipelines would occur as part of the proposed project. **Figure XVII-3** depicts the City of Desert Hot Spring Pedestrian Plan Map and indicates that there are several priority streets within which construction of pipelines and laterals would occur as part of the proposed project. Finally, **Figure XVII-4** depicts the City of Desert Hot Spring Transit Plan Map and indicates that there are several established and potential future bus routes along which construction of pipelines and laterals would occur as part of the proposed project.

In the City of Palm Springs, the City designates the only roadways within the project area as Major Throughfare and Secondary Throughfare as shown on the Palm Springs General Plan Circulation Plan Map **(Figure XVII-5).** Further, in the City of Palm Springs, there are no existing bikeways within the project area, but there are proposed Class III and Class II bikeways within the project area, as

shown on the Palm Springs General Plan Bikeways and Recreational Trails Map **(Figure XVII-6).**

It should be noted that the worker, vendor and hauling trips shown on Table III-2 represents all proposed areas of construction. This table is repeated from Subsection III, Air Quality.

Table III-2: Trips and Vehicle Miles Traveled (VMT)

Construction Activity	Worker Trips Per Day	Vendor Trips Per Day	Hauling Trips Per Day
Pipeline Installation	26	2	11
Septic Tanks Abatements	20	2	2
Linear, Paving	3	0	0

The above indicates that the project would generate up to approximately 66 trips per day during construction of the proposed pipelines, laterals, and septic tank abatement. The construction workers are expected to arrive at and depart from each day's work sites during a one-hour period at the start and end of the work day, respectively, while truck trips would be spread over the course of the work day. Both the worker trips and truck trips would be spread over different roads that provide access to the locations of the sewer alignment corridors.

In addition to the increased traffic on area roadways, the installation of sewer pipelines, laterals, and septic abatement would temporarily reduce the capacity of roadways along the pipeline alignment(s) due to open-trenching within existing roadway ROWs and the resulting temporary lane closures on the affected roadways. Construction would be temporary in nature, and construction within roadways in particular would not hinder existing modes of transportation from utilizing the roadways within which the proposed pipelines and laterals would be installed. Project construction could result in other short-term circulation effects such as temporary alteration of the movement and circulation of roadway vehicles, public transit, bicycles, and/or pedestrians within the project area, as lane and/or road closures could be required temporarily where the project would be installed in public roadway ROW and construction disturbance could traverse under existing transit, bicycle, and/or pedestrian thoroughfares.

Impacts would vary based on the component being installed as well as the configuration of the circulation system surrounding each of the impacted ROW, such as the proximity of intersections and whether the ROW is a main thoroughfare. In addition, construction equipment and materials may be staged temporarily within the public ROW, or more likely, adjacent to construction areas during construction, which may in turn impact transit stops, bicycle, and/or pedestrian facilities. However, at no point during construction would transit stops, bicycle lanes, or sideways be completely blocked without an alternative or detour option for these modes of transport. Furthermore, construction activities associated with the project could also result in accidental damage to the existing roadway network, including pavement, curbs, gutters, sidewalks, and drainage structures. As a result, construction-related transportation circulation system impacts could be potentially significant. Implementation of **MM TRAN-1**, which includes development and implementation of a construction TMP, would minimize potential conflicts with all modes of transportation as a result of project implementation, and would reduce impacts to a less than significant level.

Maintenance vehicles would continue to be utilized as needed by MSWD to access and maintain the sewer pipelines and laterals. Once infrastructure is installed, operation would not require visits to the facilities unless unforeseen circumstances arise that would require maintenance or repair of project facilities. These trips would occur as needed and are anticipated to require one trip per maintenance event, with an anticipated maximum of two maintenance trips per month. No new employees would be required to support project facilities.

Public roadway ROW and portions of the project area's circulation system impacted during construction would be returned to pre-construction conditions upon completion of installation of each Area planned for sewer pipeline and lateral installation, and septic abatement. The pipeline alignments and laterals would be installed underground, and septic abatement would also occur belowground within existing parcels that presently utilize septic for sewage disposal. As the project would operate entirely belowground, the project would not physically interfere with the transportation circulation system during operation. Operational impacts would be less than significant.

b. *Less Than Significant Impact* – MSWD proposes to install 142,000 LF of 8-inch sewer pipeline within Areas A, D-3, G, H, I, J-2, K, and along the I-10 corridor to eliminate septic tanks that threaten contamination of potable groundwater supplies by expanding MSWD's wastewater collection system. This project also includes abating more than 2,040 septic tanks, and connecting 2,600 parcels to the District's sewer collection system, as well as installation of an estimated 2,500 new 4- to 6-inch service laterals. The proposed project will install the new sewer pipeline and laterals belowground within existing roadways, and compacted dirt right-of-way. The CEQA Guidelines Section 15064.3 identifies the Vehicle Miles Traveled (VMT) as the State's preferred method of evaluating Transportation-related impacts. City of Desert Hot Springs recommends the use of the Riverside County Transportation Analysis Guidelines for Level of Service Vehicle Miles Traveled (County Guidelines), which is also applicable within the County. Further, the City of Palm Springs adopted analytical procedures, screening tools, and impact thresholds for VMT, which are documented in its adopted City of Palm Springs Transportation Impact Analyses Guidelines for Vehicle Miles Traveled And Level of Service Assessment.

The proposed project will require minimal vehicle miles traveled to accomplish once constructed. In the short term, construction of the proposed facilities will result in the generation of up to about 66 trips per day on the adjacent roadways by construction personnel, by construction vendors, and by construction haulers. The vehicle miles traveled in these instances would likely average less than 80 miles round trip. The same trucks that haul material onto the site would also carry material off of the site. VMT standards, which are intended to monitor and address long-term transportation impacts resulting from future development, do not apply to the temporary impacts associated with construction activities. Therefore, no construction impact associated with VMT per State CEQA Guidelines Section 15064.3 would occur.

Once constructed, no greater traffic would be generated by this project than that which occurs at present or is otherwise planned to occur as part of area development. Other than maintenance to inspect and maintain the proposed sewer pipeline and laterals when necessary, no operational trips are anticipated. This would therefore result in minimal vehicle miles traveled once the pipelines and laterals are installed and are operational. As both the City of Palm Springs Transportation Impact Analyses Guidelines and Riverside County Transportation Analysis Guidelines identify that projects

generating less than 110 trips per day would be screened from further VMT Analysis and presumed to have a less than significant impact, development of the GQPP Septic to Sewer Project and its average less than two trips per month on an as needed maintenance basis to the pipeline and lateral alignments is not anticipated to result in a significant impact related to vehicle miles travelled, and thus would not conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b). Impacts under this issue are considered less than significant.

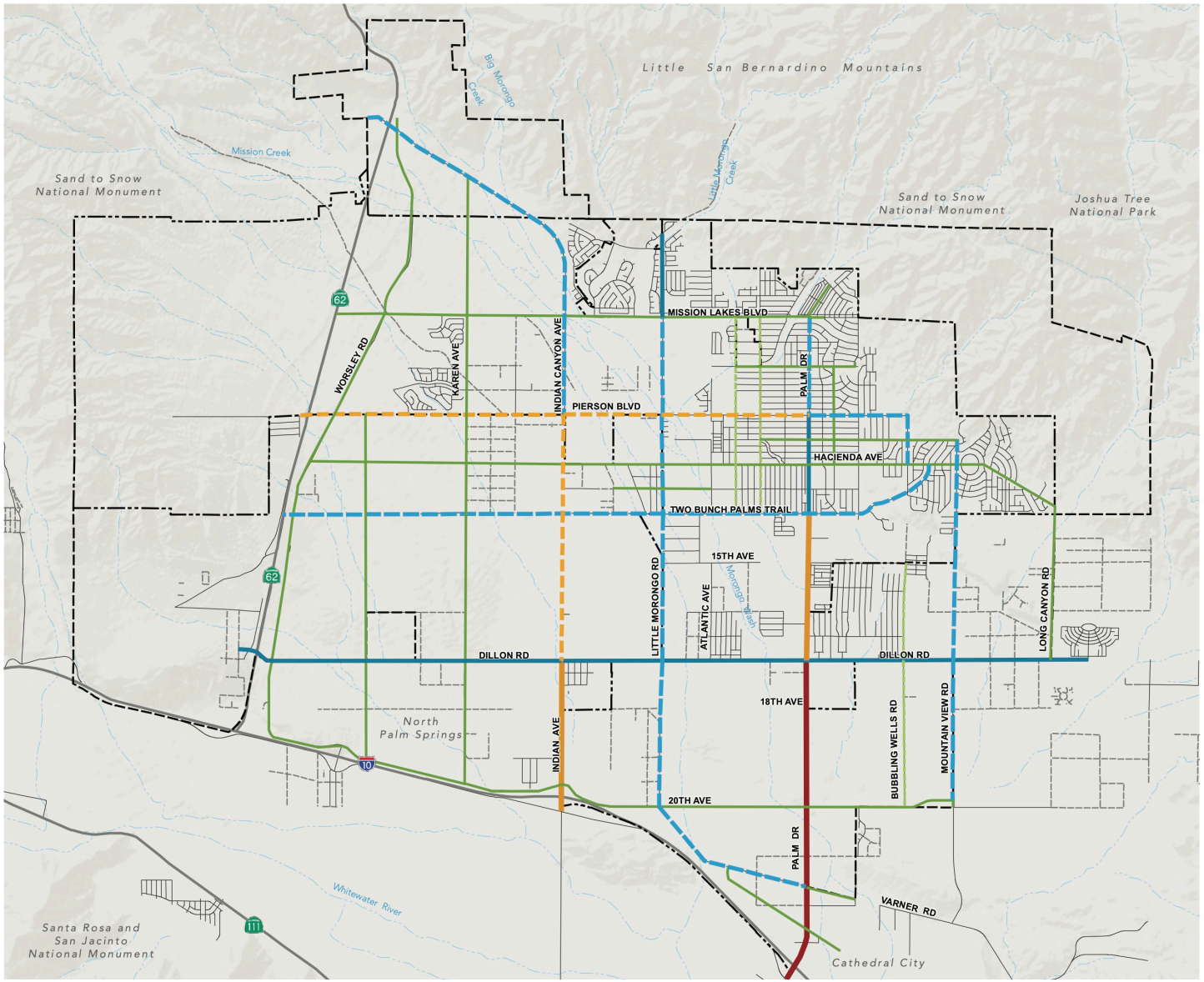
c. *Less Than Significant With Mitigation Incorporated* – During construction, the GQPP Septic to Sewer Project could temporarily change the built configuration of intersections and roadways within the project area as described above. Lane and/or road detours or closures may be required where the GQPP Septic to Sewer Project would be installed within public ROW. Construction equipment and materials may also be staged temporarily within the public ROW. Lane detours or closures have the potential to increase conflicts between vehicles, bicyclists, and pedestrians; however, implementation of existing regulations and policies for road closures and lane detours within active construction areas would reduce the potential for project construction to increase hazards in the project area. However, although construction of the proposed GQPP Septic to Sewer Project could temporarily increase the type of vehicles (i.e., trucks) that could be incompatible with predominantly automobile vehicles on local roadways, the change to the mix of vehicles would stop when GQPP Septic to Sewer Project construction is completed. The potential conflicts between construction trucks and automobiles on local roadways would be considered a potentially significant impact. The implementation of **MM TRAN-1** would reduce the GQPP Septic to Sewer Project's contribution to potential construction traffic hazard impacts to less than significant. The above measure would reduce traffic hazards by requiring all construction activities to be conducted in accordance with an approved construction TMP. As a result, implementation of **MM TRAN-1** would reduce construction transportation circulation system impacts to a less than significant level.

The GQPP Septic to Sewer Project would not include alterations to existing roadway alignments or intersections in the project area, and therefore, would not include sharp curves or unsafe designs that would increase transportation-related hazards. Once the pipelines, laterals, and septic abatement occurs belowground, it is not anticipated that any aboveground hazards would remain once the sewer pipelines and laterals are operational. Therefore, no operational impacts related to transportation hazards would occur. No impacts are anticipated.

d. *Less Than Significant With Mitigation Incorporated* – Please refer to the discussions under issue XVII(a) and XVII(c), above. Project construction activities would have temporary effects on roadway vehicle flow and lane configurations at specific intersections and roadways due to potential lane and/or road closures, which would potentially impact emergency access and response times in the project area. Construction activities could also temporarily block access to some roadways and driveways that are currently used by emergency response vehicles or in emergency evacuations. Therefore, construction impacts related to emergency access would be potentially significant. **MMs TRAN-1 and WF-1** would require implementation of transportation control measures and coordination with emergency response providers to minimize impacts to emergency access in the project construction area(s) due to lane and/or road closures during GQPP Septic to Sewer Project construction. Implementation of **MMs TRAN-1 and WF-1**, would be required to reduce impacts to a less than significant level.

Operation of the GQPP Septic to Sewer Project would not block roadways or driveways as the

proposed sewer pipelines and laterals would be installed belowground. Therefore, no operational impacts related to emergency access would occur.



DESERT HOT SPRINGS GENERAL PLAN

Figure MI-7: Roadways Plan

Road Classifications

- Urban Arterial
- Primary I
- Primary II
- Secondary I
- Secondary II
- Collector
- Local Collector

Base Map Features

- City Boundary
- Sphere of Influence
- Water Courses

Date: July 2019.

0 0.25 0.5 1 1.5 2 Miles

FIGURE XVII-1

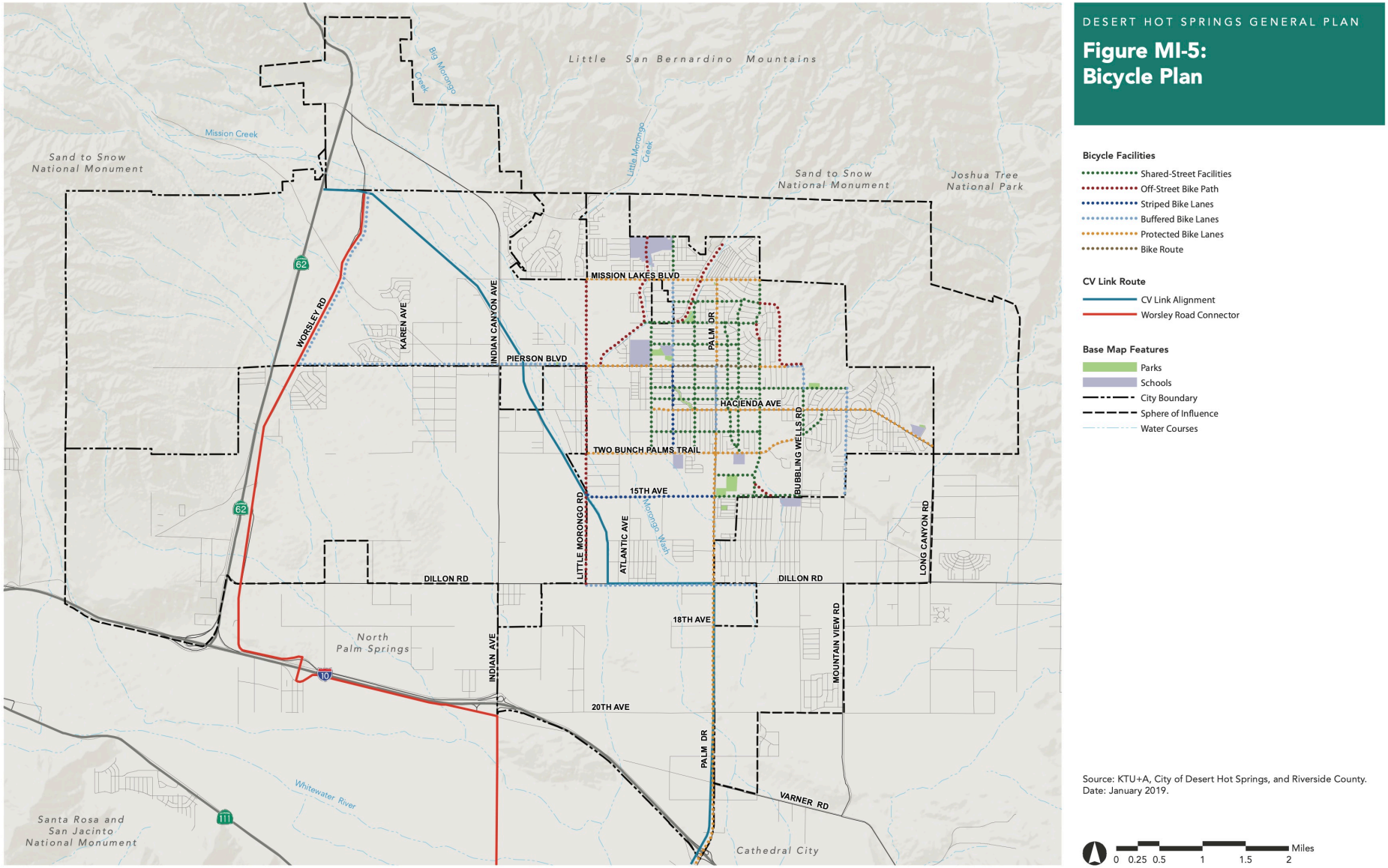
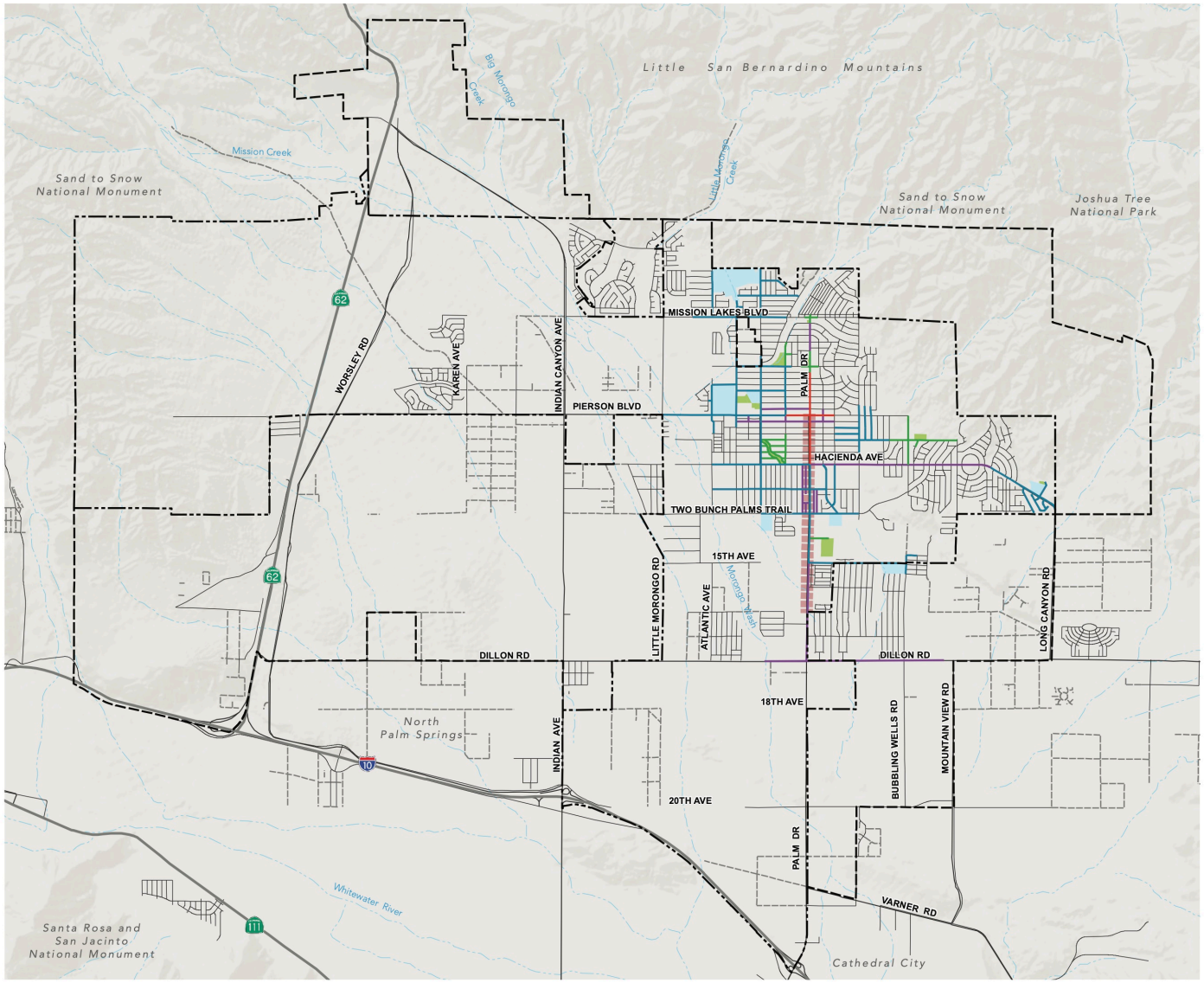


FIGURE XVII-2



DESERT HOT SPRINGS GENERAL PLAN

Figure MI-1: Pedestrian Plan

Pedestrian Plan - Priorty Streets
- Safe Routes to School
- Safe Routes to Parks
- Downtown Safe Streets
- Mixed-Use/Visitor-Serving Safe Streets

Safety Enhancement Zone
- Safety Enhancement Zone

Base Map Features
- City Boundary
- Sphere of Influence
- Water Courses
- Parks
- Schools

Date: July 2019.

0 0.25 0.5 1 1.5 2 Miles

FIGURE XVII-3

Tom Dodson & Associates
Environmental Consultants

Desert Hot Springs Pedestrian Plan

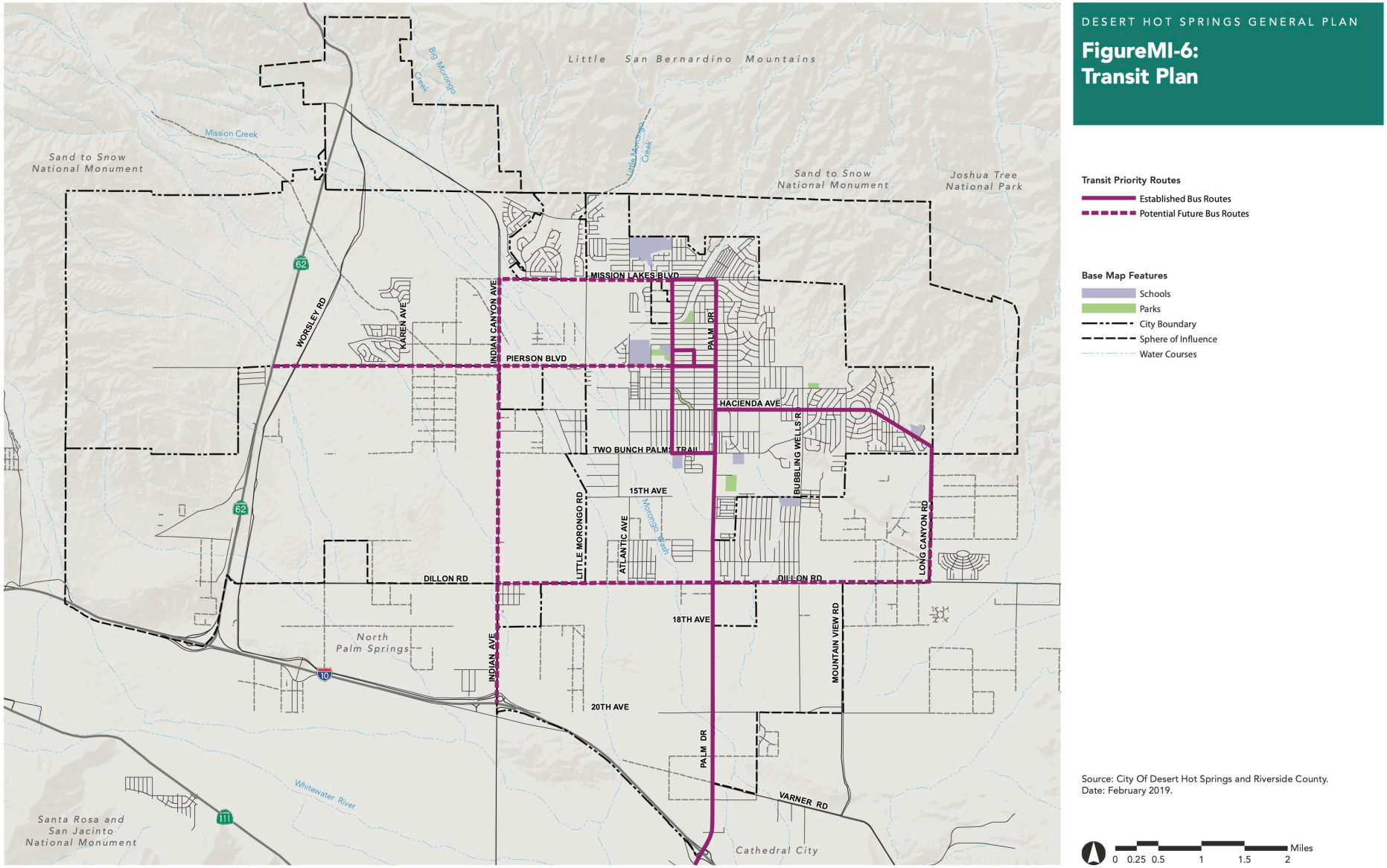


FIGURE XVII-4

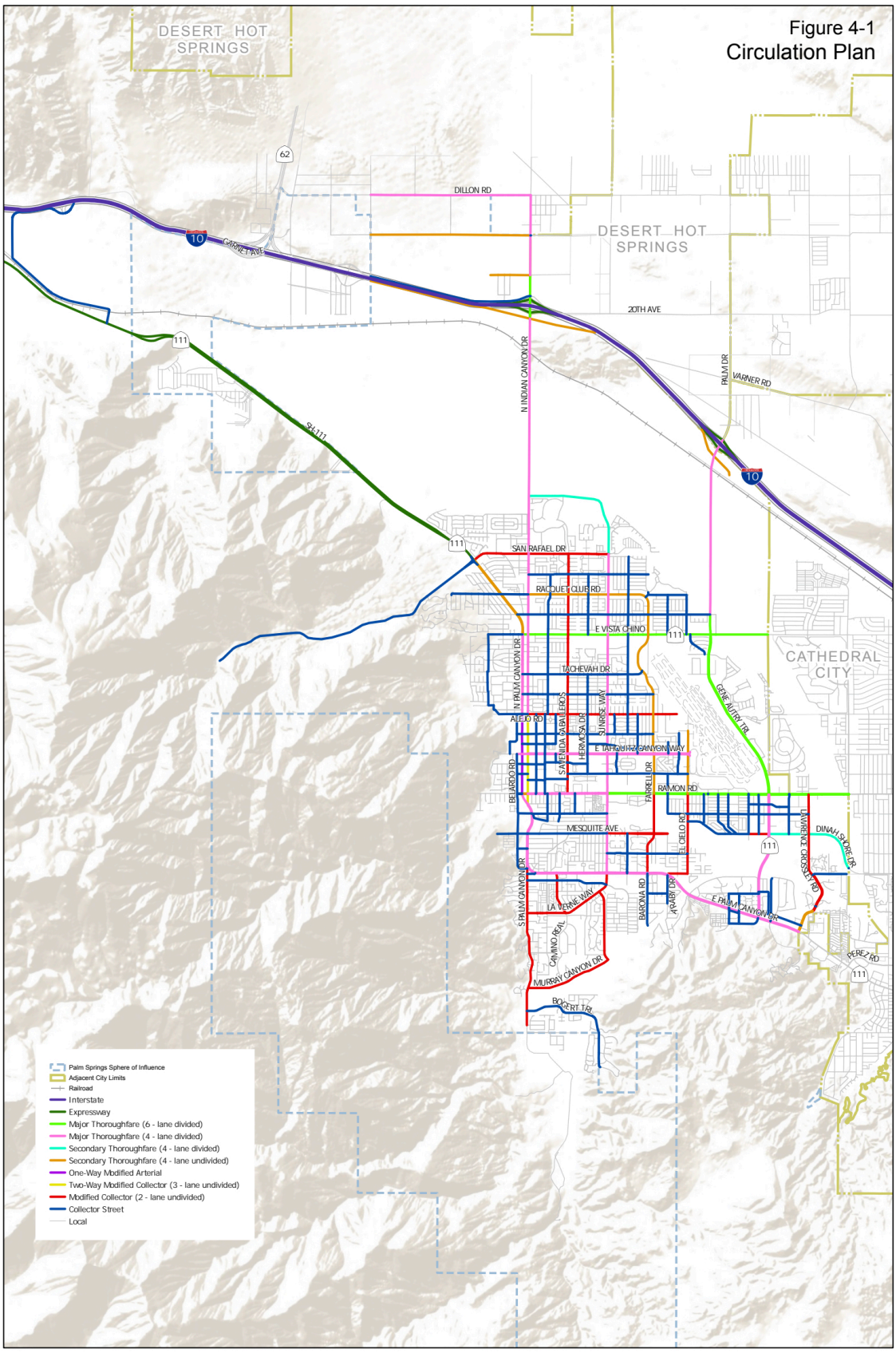


FIGURE XVII-5

Tom Dodson & Associates
Environmental Consultants

Palm Springs Circulation Plan

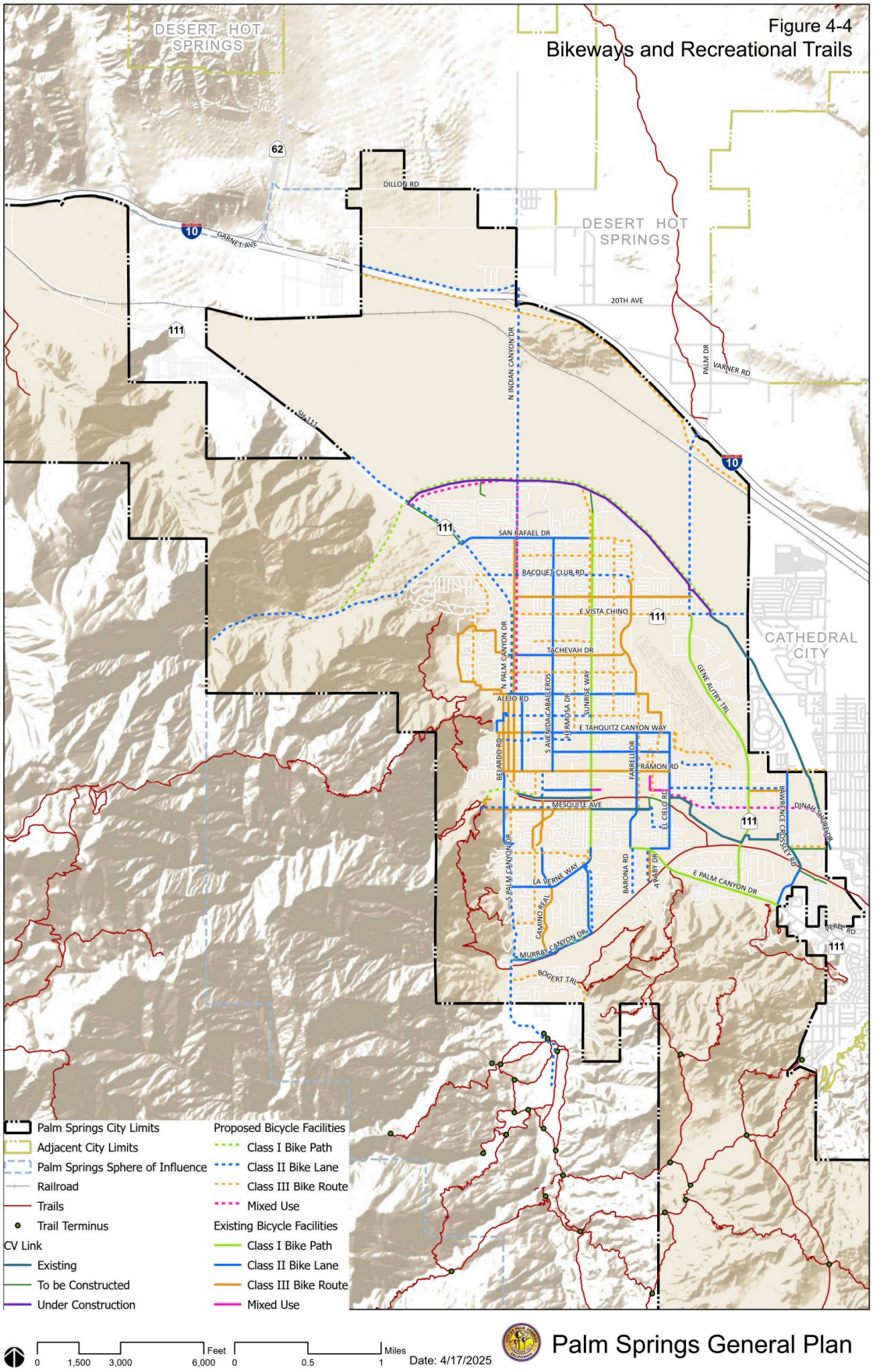


FIGURE XVII-6

Tom Dodson & Associates
Environmental Consultants

Palm Springs Bikeways and Recreational Trails

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact or Does Not Apply
XVIII. TRIBAL CULTURAL RESOURCES: Would the project cause a substantial change in the significance of tribal cultural resources, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographic-ally defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to the California Native American tribe, and that is:				
a) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or	☐	☒	☐	☐
b) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in sub-division (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.	☐	☒	☐	☐

SUBSTANTIATION

Impact Analysis

a&b. *Less Than Significant With Mitigation Incorporated* – Only one tribe has requested consultation with the District under AB 52, the Agua Caliente Band of Cahuilla Indians. AB 52 consultation letters were sent on July 24, 2025. The Tribe responded on July 24, 2025 requesting several items:

- Copies of any cultural resource documentation (report and site records) generated in connection with this project.
  - A copy of the Cultural Report (**Appendix 3**) was provided to the Tribe on December 24, 2025.
- A copy of the Mitigated Negative Declaration report.
  - A copy will be sent to the Tribe once the Mitigated Negative Declaration (this document) is published
- Formal government to government consultation under AB 52
  - This item has been conducted as documented herein
- A meeting with the Lead Agency
  - A meeting was conducted on January 6th between the Tribe and MSWD

The result of the December 24,2025 meeting was a request for specific mitigation language to be incorporated into the project as part of this Initial Study to ensure protection of Tribal Cultural Resources. These mitigations address (1) the requirement for a Native American cultural monitor to be present for construction, (2) protocol for inadvertent discoveries of tribal cultural resources, (3)

reburial protocol, and (4) discovery of human remains. Thus, the following mitigation measures implementing the above principles that would protect tribal cultural resources are required to ensure that a significant tribal cultural resource impact does not occur:

TCR-1 *Native American Cultural Monitor: Prior to the issuance of grading permits, MSWD shall develop an agreement with the Agua Caliente Band of Cahuilla Indians-Tribal Historic Preservation Office for the appropriate number of Native American Cultural Monitor(s). The Native American Cultural Monitor(s) shall attend the pre-construction meeting with the contractors to provide Cultural Sensitivity Training for all construction personnel. The Native American Cultural Monitor(s) shall be on site during ground disturbing activities on undisturbed soils and disturbance of section G, H, and I including clearing, grubbing, tree removals, grading and trenching. The Native American Cultural Monitor(s) have the authority to temporarily divert, redirect or halt the ground disturbance activities to allow identification, evaluation, and potential recovery of cultural resources.*

TCR-2 *Inadvertent Discoveries: MSWD or any successor in interest shall comply with the following for the life of this permit. If during ground disturbance activities, unanticipated cultural resources are discovered, the following procedures shall be followed: All ground disturbance activities within 50 feet of the discovered cultural resource shall be halted and a meeting shall be convened between the Native American tribal representative and MSWD to discuss the significance of the find. At the meeting with the aforementioned parties, a decision is to be made, with the concurrence of the consulting Tribe(s), as to the appropriate treatment (documentation, recovery, avoidance etc.) for the cultural resource. A Secretary of the Interior qualified archaeologist shall be retained if deemed necessary by the parties involved. Resource evaluations shall be limited to nondestructive analysis. Further ground disturbance shall not resume within the area of the discovery until the appropriate treatment has been accomplished.*

TCR-3 *Reburial Protocol: Prior to issuance of grading permits: the developer/applicant shall come to an agreement with the consulting tribes indicating an area on-site which will be used, if needed, for reburial of any artifacts that have been identified during the duration of the project and cannot be avoided. The location has to be kept confidential and in an area that will not be disturbed in the future.*

TCR-4 *Human Remains: Pursuant to the California Health and Safety Code Section 7050.5, in the event of discovery of any human remains on the project site, there shall be no further excavation or disturbance of the site, or any nearby area reasonably suspected to overlay adjacent remains, until the County Coroner has examined the remains. If the coroner determines the remains to be Native American or has reason to believe that they are those of Native American, the coroner shall contact the NAHC within 24-hours, and the NAHC will be responsible for identifying the Most Likely Descendant (MLD) and contacting them for ongoing consultation and resolution. The project will be subject to these requirements during all construction and excavation activities. Compliance with the California Health and Safety Code will ensure that should there be a discovery of any human remains during project construction activities, impacts*

would be reduced to less than significant levels.

With the implementation of these mitigations, which require continued consultation with the Tribe, AB 52 consultation has concluded.

As previously discussed, as part of the effort to prepare the **Appendix 3**, and as part of the written request to the State of California NAHC for a records search in the commission's SLF, five of the tribes have responded to the inquiry in writing, and three others have provided their comments by telephone. Among them, the Augustine Band, the Quechan Indian Tribe, and the Santa Rosa Band expressed no concerns over this undertaking. The Quechan Indian Tribe deferred to other tribes in closer proximity to the APE, while the Soboba Band and the Torres Martinez band deferred specifically to the Agua Caliente Band. The Agua Caliente Band also consider the APE a part of their traditional use area. In addition, the Agua Caliente Band reported that there were several tribal cultural resources adjacent to the APE. Therefore, the tribe requested to review all cultural resources documentation generated for this undertaking, including the records search results, which has since been provided as described in the first paragraph above.

The Twenty-Nine Palms Band stated that they were unaware of any cultural resources in the APE, and the Yuhaaviatam found the area to be low in sensitivity for cultural resources. Both tribes, however, consider the project location to be a part of their traditional territory. The Twenty-Nine Palms Band requested that MSWD protect tribal cultural and cultural resources. Based on the fact that a Native American monitor will be present during construction, and that the Agua Caliente Band of Mission Indians put forth protocol for treatment of such resources, MSWD believes that this request by the Twenty-Nine Palms Band has been met. Note that this tribe has not requested formal consultation under AB 52. The Yuhaaviatam of San Manuel Nation (YSMN) indicated that it wished to engage in in government-to-government consultation pursuant to AB 52. However, the Tribe has not sent the initial formal consultation request pursuant to AB 52 to MSWD that would require consultation. Regardless, on January 9th, 2026, Mr. Eric Weck of MSWD reached out to the contact at YSMN that was contacted by CRM TECH (refer to **Appendix 3**) to ascertain whether the Tribe wished to provide MSWD with an initial consultation request from the Tribe pursuant to PRC 21080.3.1(b). To date, MSWD has not received a response back, and therefore considers that no formal AB 52 consultation with the YSMN is required. However, as with the Twenty-Nine Palms Band, a Native American monitor will be present during construction, and MSWD will be required to implement mitigation that the Agua Caliente Band of Mission Indians put forth addressing protocol for treatment of tribal cultural resources.

Furthermore, the mitigation identified to protect archaeological resources under Section V Cultural Resources (**MM CUL-2**), would require an archaeological monitor to be onsite for ground disturbing activities, and calls for the creation of and adherence to a Monitoring and Treatment Plan. The coordination between the archaeological and tribal monitors would ensure protection of tribal cultural resources. As such, through the implementation of **MMs TCR-1 through TCR-4,** and **CUL-2,** the project has a less than significant potential to cause a substantial change in the significance of tribal cultural resources, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to the California Native American tribe and that is either **a)** Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or **b)** A

resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. No further mitigation is required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact or Does Not Apply
XIX. UTILITIES AND SERVICE SYSTEMS: Would the project:				
a) Require or result in the relocation or construction of new or expanded water, wastewater treatment, or stormwater drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?	☐	☐	☒	☐
b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?	☐	☐	☐	☒
c) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?	☐	☐	☒	☐
d) Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?	☐	☒	☐	☐
e) Comply with Federal, State, and local management and reduction statutes and regulations related to solid waste?	☐	☒	☐	☐

SUBSTANTIATION

Impact Analysis

a. Water

No Impact – The proposed project will not develop any housing or human-occupied structures that would require connection to MSWD's water distribution system. The GQPP Septic to Sewer Project will install 142,000 LF of 8-inch sewer pipeline within Areas A, D-3, G, H, I, J-2, K, and along the I-10 corridor to eliminate septic tanks that threaten contamination of potable groundwater supplies by expanding MSWD's wastewater collection system. This project also includes abating more than 2,040 septic tanks, and connecting 2,600 parcels to the District's sewer collection system, as well as installation of an estimated 2,500 new 4- to 6-inch service laterals. The proposed project will install the new sewer pipeline and laterals belowground within existing roadways, and compacted dirt right-of-way. Therefore, with no connections to MSWD's water distribution system required beyond the temporary use of water during construction as discussed under issue X(b), the proposed project is not forecast to require or result in the construction of new water facilities or expansion of existing facilities in order to serve the project.

Wastewater

Less Than Significant Impact – The GQPP Septic to Sewer Project will install 142,000 LF of 8-inch sewer pipeline within Areas A, D-3, G, H, I, J-2, K, and along the I-10 corridor to eliminate septic tanks that threaten contamination of potable groundwater supplies by expanding MSWD's wastewater collection system. This project also includes abating more than 2,040 septic tanks, and connecting 2,600 parcels to the District's sewer collection system, as well as installation of an estimated 2,500 new 4- to 6-inch service laterals. The purpose of the project is to eliminate septic tanks that threaten contamination of groundwater supplies by expanding MSWD's wastewater collection system. As demonstrated throughout this Initial Study, the proposed project will not result in any significant impacts from the installation of the new wastewater collection system that will connect to MSWD's existing wastewater collection system. MSWD has planned for and anticipates the additional wastewater flow generated by GQPP Septic to Sewer Project, and has available capacity to treat this additional wastewater at their existing wastewater treatment plants. Therefore, while the proposed project would construct new wastewater collection facilities, development of the GQPP Septic to Sewer Project would not result in a significant environmental effect related to the relocation or construction of new or expanded wastewater facilities. Impacts are less than significant.

Stormwater

Less Than Significant Impact – As stated under issue X (c[i-iii]), implementation the proposed project is not forecast to significantly alter the volume of surface/stormwater runoff that will be generated from the project footprint. The roadways within which the pipelines and laterals will be installed will be returned to their original condition upon completion of the placement of each section of sewer pipeline, as will the area of compacted dirt within which a portion of the alignment will be installed. Further, in the locations that septic abatement occurs, the aboveground surface will be recompacted and returned to its original condition upon completion of septic abatement. The roadways and overall project footprint will generate essentially the same amount of stormwater as they do at present because no expansion of roadway or change in drainage patterns are anticipated. Given that no new stormwater collection facilities are required to implement the proposed project, and that the existing stormwater collection facilities will remain in place under the proposed project, development of the project will not require or result in the construction of new or expansion of existing stormwater drainage facilities. Any impacts under this issue are considered less than significant. No mitigation is required.

Electric Power

No Impact – Development of the GQPP Septic to Sewer Project would not require the installation of electrical services or substantial additional energy beyond that which is currently required to operate MSWD's wastewater collection facilities and Dos Palmas Lift Station. The proposed project would install sewer pipeline and laterals that will be connected to MSWD's existing wastewater collection system. The project may require some additional energy use at existing transmission facilities to accommodate the additional wastewater collected within the project Areas. However, this increase in energy demand would fall within existing electrical capacities from energy providers (i.e. SCE and MSWDs own Solar Arrays). Therefore, the project would not result in a significant environmental effect related to the relocation or construction of new or expanded electric power facilities. No impacts are anticipated.

Natural Gas

No Impact – Development of the GQPP Septic to Sewer Project would not require installation of

natural gas, nor any connections thereof. Therefore, the project would not result in a significant environmental effect related to the relocation or construction of new or expanded natural gas facilities. No impacts are anticipated.

Telecommunications

No Impact – Development of the GQPP Septic to Sewer Project would not require installation of wireless internet service or phone service, nor any connections thereof. Therefore, the project would not result in a significant environmental effect related to the relocation or construction of new or expanded telecommunication facilities. No impacts are anticipated.

b. *No Impact* – Please refer to the discussion under issues X(b) and XIX(a) above. The GQPP Septic to Sewer Project will install 142,000 LF of 8-inch sewer pipeline within Areas A, D-3, G, H, I, J-2, K, and along the I-10 corridor to eliminate septic tanks that threaten contamination of potable groundwater supplies by expanding MSWD's wastewater collection system. This project also includes abating more than 2,040 septic tanks, and connecting 2,600 parcels to the District's sewer collection system, as well as installation of an estimated 2,500 new 4- to 6-inch service laterals. Construction would require up to 5,000 gallons of potable water each day for a maximum of about 6,469 working days, which equates to the installation of the project requiring up to 3,234,500 gallons of water per year (9.9-acre feet per year) during construction. This amount is considered nominal when compared to the availability of supply from the project proponent, MSWD based on a review of the 2020 Coachella Valley Regional UWMP. Once the sewer pipelines and laterals have been installed, and once the septic systems have been abated, it is not anticipated that the project would require water use or water connections to enable project operation. No aboveground features are proposed as part of this project that would require the use of potable water to operate. Thus, implementation of the proposed project will have access to sufficient water supplies available to serve the project from existing entitlements and resources. No impacts are anticipated and no mitigation is required.

c. *Less Than Significant Impact* – Please refer to the discussion under X(b) and XIX(a) above. The GQPP Septic to Sewer Project will install 142,000 LF of 8-inch sewer pipeline within Areas A, D-3, G, H, I, J-2, K, and along the I-10 corridor to eliminate septic tanks that threaten contamination of potable groundwater supplies by expanding MSWD's wastewater collection system. MSWD has planned for and anticipates the additional wastewater flow generated by Areas A, D-3, G, H, I, J-2, K, and the I-10 corridor, and has available capacity to treat this additional wastewater at their existing/planned wastewater treatment plants. Therefore, while the proposed project would construct new sewer facilities, the connection of Areas A, D-3, G, H, I, J-2, K, and the I-10 corridor to MSWD's service area would not create a demand of wastewater treatment services that would impact the provider's ability to collect and treat wastewater within their existing commitments. Impacts under this issue are considered less than significant. No mitigation is required.

d. *Less Than Significant With Mitigation Incorporated* – The project will generate construction waste from the removal of soil and pavement. The inert wastes can be disposed of at existing municipal solid waste facilities, which have adequate capacity to accept inert wastes generated by this project, or can be recycled onsite. Any construction and demolition (C & D) waste, which in this case is generally anticipated to consist of onsite soils, will be recycled to the maximum extent feasible and any residual materials will be delivered to one of several C & D disposal sites in the area surrounding the project site. Many of these C & D materials can be reused or recycled, thus prolonging our supply of natural resources and potentially saving money in the process.

In accordance with CALGreen code 5.408.4, 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing must be reused or recycled. As this is a mandatory requirement, no mitigation is required to ensure compliance by MSWD for this project.

Because of increased construction recycling efforts resulting from CalGreen and other regulations, opportunities for construction recycling are becoming easier to find, such as one in Palm Desert that accepts a wide range of construction and demolition debris materials: asphalt, concrete, drywall, gravel, reusable/ deconstructed material, pallets, sand, soil, and wood. There are additional facilities that accept C&D materials located in the surrounding areas[14] including facilities in Coachella, Thousand Palms, Indio, Palm Springs, and Cathedral City that accept a wide range of materials.

The facilities that accept C&D materials, combined with the landfills in the surrounding area, have adequate capacity to serve the proposed project. Solid waste will be disposed of in accordance with existing regulations at an existing licensed landfill. The Lamb Canyon Sanitary Landfill and Badlands Landfill serve the project area. The Lamb Canyon Sanitary Landfill has a maximum permitted daily capacity of 5,000 tons per day, with a permitted capacity of 38,935,653 cubic yards (CY), with 19,242,950 CY of capacity remaining.[15] The Badlands landfill has a maximum permitted daily capacity of 5,000 tons per day, with a permitted capacity of 82,300,000 CY, with 7,800,000 CY of capacity remaining.[16]

Pipelines would require demolition of sections of roadway and/or compacted dirt and/or landscaped areas in order to install sewer pipelines and laterals and septic abatement belowground and within ROW, but would not require a large area of construction. Each of the individual areas undertaken by MSWD to implement the proposed project would include the preparation of a construction and demolition solid waste management plan as required by Riverside County for all new construction projects. Information provided in this waste management plan would include how the waste would be managed, hauler identification, and anticipated material wastes. Each plan would demonstrate a minimum of at least 65 percent of the nonhazardous construction and demolition waste be recycled and/or salvaged for reuse per the current CalGreen Code. Compliance with this requirement is mandatory. Regardless, approximately 42,000 tons of asphalt[17] may be disposed of as a result of sewer pipeline installation, which is proposed to be disposed of over the approximately 10 year duration of construction. As such, given the large amount of material that could be required to be hauled off site in support of the installation of the sewer pipeline and laterals, generation of solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or impairment of the attainment of solid waste reduction goals could occur. As such, mitigation (**MM UTIL-1 and UTIL-2**) to ensure that the asphalt and other construction and demolition materials disposed of as part of the sewer pipeline and lateral installation, and septic abatement is recycled

[14] Riverside County, 2025. Construction Demolition Debris Recyclers https://rcwaste.org/sites/g/files/aldnop376/files/migrated/Portals-0-Files-Planning-CD-DebrisRecyclers.pdf (accessed 12/20/25)
[15] CalRecycle, 2025. SWIS Facility/Site Activity Details Lamb Canyon Sanitary Landfill (33-AA-0007) https://www2.calrecycle.ca.gov/SolidWaste/SiteActivity/Details/2246?siteID=2368 (Accessed 12/20/25)
[16] CalRecycle, 2025. SWIS Facility/Site Activity Details Badlands Sanitary Landfill (33-AA-0006) https://www2.calrecycle.ca.gov/SolidWaste/SiteActivity/Details/2245?siteID=2367 (Accessed 12/20/25)
[17] Utilizing the following calculator assuming a depth of 12 inches, width of 4 feet, and a length of 142,000 feet. https://reevescc.com/asphalt-calculator/ Also assuming that asphalt weighs about 2 ton per cubic yard. https://www.aws-fd.com/weight-calculator (Accessed 12/20/25)

beyond the minimum of at least 65 percent of the nonhazardous construction and demolition waste be recycled and/or salvaged for reuse per the current CalGreen Code, is necessary to reduce potential impacts to a level of less than significant.

UTIL-1 ***The contract with demolition and construction contractors for any individual project under this proposed GQPP Septic to Sewer Project umbrella shall include the requirement that all materials that can feasibly be recycled shall be salvaged and recycled. This includes but is not limited to wood, metals, concrete, road base, soil and asphalt. The contractors for any individual project under this proposed GQPP Septic to Sewer Project umbrella shall submit a recycling plan to the implementing agency for review and approval prior to issuance of permits for the construction of demolition/construction activities.***

UTIL-2 ***The contract with demolition and construction contractors for any individual project under this proposed GQPP Septic to Sewer Project umbrella shall include the requirement that all soils that are planned to be exported from the site that can be recycled shall be recycled for re-use; alternatively, soils shall be reused on site to balance soil import/export.***

Also, note that the septic abatement would require disposal of septic sewage in advance of filling the tanks up with sand or slurry, and that the septic tank itself would be left in place. The septic sewage would be handled in accordance with Federal, State, and local regulations pertaining to handling of sewage, and would be pumped by a properly licensed pumping and hauling company and disposed of legally. Mission Springs Water District does not have the processes in place to treat septic sewage. The licensed pumper shall submit pumping tickets to the District quantifying the volume of septic sewage and identifying the facility receiving the septic sewage. The District does not accept septic sewage from abandoned septic tanks.

Operation of the proposed sewer pipelines and laterals would not generate solid waste beyond the sewage collected and treated by MSWD at its wastewater treatment plants, the capacity of which is sufficient to handle the sewage collected by this project. Therefore, the project would have no potential to generate solid waste in excess of Federal, State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals. Thus, no impacts are anticipated.

e. *Less Than Significant With Mitigation Incorporated* – Construction of the proposed sewer pipelines and laterals, and septic abatement would comply with all applicable City, County, and State construction and demolition requirements during construction of the proposed facilities including AB 939, which requires diversion of solid waste from landfills at 50% by 2000; SB 1383. California's Short-Lived Climate Pollutant Reduction Regulations, which establishes methane reduction targets for California. SB 1383 sets goals to reduce disposal of organic waste in landfills, including edible food, including reducing organic waste disposal 50% by 2020 and 75% by 2025, and recovering at least 20% of currently disposed surplus edible food by 2025[18]; and, the CALGreen Code (Title 24, California Code of Regulations, Part 11) requires that at least 65 percent of the nonhazardous

[18] CalRecycle, 2025. California's Organic Waste Reduction SB 1383 Short-Lived Climate Pollutant Reduction Strategy. https://calrecycle.ca.gov/organics/slcp/ (Accessed 12/20/25)

construction and demolition waste from nonresidential construction operations be recycled and/or salvaged for reuse. All excavated soil would be hauled offsite by truck to an appropriately permitted solid waste facility. The amount of soil to be disposed per day would not exceed the maximum permitted throughput for each waste type (i.e., non-hazardous and hazardous). Furthermore, other solid waste would be disposed of at an appropriately permitted solid waste facility. The daily amount of solid waste to be disposed per day would not exceed the maximum permitted throughput for each waste type (i.e., non- hazardous and hazardous). Any hazardous materials collected during construction would be transported and disposed of by a permitted and licensed hazardous materials service provider. Also, note that the septic abatement would require disposal of septic sewage in advance of filling it up with sand or slurry, and that the septic tank itself would be left in place. The septic sewage would be handled in accordance with Federal, State, and local regulations pertaining to handling of septic waste, and would be pumped by a properly licensed pumping and hauling company and disposed of legally. Mission Springs Water District does not have the processes in place to treat septic sewage. The licensed pumper shall submit pumping tickets to the District quantifying the volume of septic sewage and identifying the facility receiving the septic sewage. The District does not accept septic sewage from abandoned septic tanks.

In order to ensure full compliance above and beyond Federal, State, and local management and reduction statutes and regulations related to solid waste, and avoid a potentially significant impact thereof, the sewer pipelines and laterals, and septic abatement would be required, through the implementation of **MM UTIL-1** to recycle construction and demolition materials beyond the mandated 65 percent diversion required by the current CalGreen Code. Furthermore, **MM UTIL-2** would require further diversion through the recycling of soils where possible. Thus, construction impacts would be less than significant through the implementation of mitigation.

Operation of the proposed sewer pipelines and laterals would not result in the generation of solid waste beyond the sewage collected and treated by MSWD at its wastewater treatment plants, the capacity of which is sufficient to handle the sewage collected by this project. Therefore, the proposed project operation would comply with Federal, State, and local management and reduction statutes and regulations related to solid waste. No operational impacts under this issue are anticipated and no mitigation is required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact or Does Not Apply
XX. WILDFIRE: If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:				
a) Substantially impair an adopted emergency response plan or emergency evacuation plan?	☐	☒	☐	☐
b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of wildfire?	☐	☒	☐	☐
c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?	☐	☒	☐	☐
d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?	☐	☒	☐	☐

SUBSTANTIATION

Background

CAL FIRE designates most of the areas within the project area as being located within moderate fire hazard severity zones (FHSZs) within a LRA due to the project's location within the City of Desert Hot Springs, Unincorporated Riverside County, and the City of Palm Springs, outside of higher fire risk areas in the San Bernardino and Little San Bernardino Mountains and Mount San Jacinto (**Figures IX-11 and IX-12**). However, there are areas within the northern portion of Area A that are designated as high and very high FHSZ within a State Responsibility Zone (SRA) per CAL FIRE as demonstrated on **Figure IX-12**.

Impact Analysis

a. *Less Than Significant With Mitigation Incorporated* – The proposed pipelines would be constructed primarily within paved roadway ROW, with some areas of the sewer pipeline located in undisturbed areas, such as an area that is not paved, consisting of compacted dirt to connect sewer pipeline from Hidalgo Street to Quinta Way as previously described. As discussed under issue IX(f), pipeline installed within public roadways could impair an adopted emergency response plan or emergency evacuation plan. The Desert Hot Springs General Plan Wildfire Hazards Map (**Figure IX-1**) indicates the emergency evacuation routes within the project vicinity. The proposed sewer pipeline alignments have generally been designed to avoid conflicts with these roadways, with the exception of connecting a pipeline within Hacienda Avenue (Areas H, J-2, and K), and the short section of sewer pipeline located within Indian Canyon Avenue. At no time during the installation of pipeline

will the entirety of this roadway be closed. The project would require one lane to be closed, which would allow for through-traffic so long as a traffic management plan is developed and implemented. Thus, in order to ensure adequate emergency circulation during construction of the proposed pipelines, implementation of **MMs TRAN-1 and WF-1** would be required. This is because this construction activity, and other anticipated construction activities associated with sewer pipeline alignments, could potentially block access to roadways and driveways for emergency vehicles. The construction-related impacts, although temporary, could potentially impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan. However, at no time during the installation of the proposed sewer pipeline alignments and associated laterals will the entirety of the roadways be closed. To minimize potential conflicts between construction deliveries and potential emergency evacuation periods, and thereby avoid a potentially significant impact, MSWD shall establish access protocols with its construction contractors that will require deliveries to be postponed during a declared fire emergency. Thus, through the implementation of **MM WF-1** potential conflicts between Conveyance Facility construction traffic and a potential fire emergency can be avoided. It is anticipated that the installation of the proposed sewer pipeline alignments and associated laterals within road ROW would require only one lane to be closed, which would allow for through-traffic so long as a traffic management plan is developed and implemented, which shall be enforced through the implementation of **MMs TRAN-1 and WF-1**.

The construction-related impacts, although temporary, could potentially impair an adopted emergency response plan or emergency evacuation plan. Impacts would be potentially significant. Therefore, mitigation is necessary to minimize impacts. **MM WF-1**, which requires consistency with the Riverside County Operational Area Emergency Response Plan (RCOAE), as well as review and approval by the local agency with authority over construction within the public ROW, would be required to reduce these potential temporary significant impacts to a less than significant level. The RCOAE provides wildfire mitigation efforts that include the goal of continuing to reduce fire hazards in Riverside County, and generally coordinates evacuation in the event of an area emergency, which includes area wildfires. The implementation of **MMs TRAN-1 and WF-1** would require the preparation and implementation of a TMP with comprehensive strategies to reduce potential disruption to emergency evacuation or an emergency response plan during construction. Therefore, the proposed project would have a less than significant potential to impair an adopted emergency response plan or emergency evacuation plan through the implementation of mitigation identified above.

Following construction, the operation of the pipelines would not impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan as they would be located underground. Thus, the potential for significant impairment of any emergency response or evacuation plans is minimal, or less than significant.

b. *Less Than Significant With Mitigation Incorporated* – During construction, because a small portion of Area A sewer pipeline and laterals, and septic abatement would be installed or undertaken in locations designated as high and very high FHSZ, construction may exacerbate fire risk temporarily as a result of accidental sparks generated by spark-producing equipment. As such, the proposed installation of sewer pipeline, laterals, and septic abatement require the implementation of **MM WF-2,** which would minimize fire risk during activities that would utilize spark-producing equipment by requiring spark arrestors for construction equipment that could create a spark, and requiring

construction crews and vehicles to have access to functional fire extinguishers and fire prevention equipment at all times during construction. **MM WF-2** would require fire reduction measures to be incorporated into the fire management plan/fuel modification plan for the proposed facility, and shall be implemented during construction and over the long-term for protection of the site to avoid potentially significant wildfire risks. Therefore, **MM WF-2** shall be implemented for pipelines, laterals, and septic abatement occurring within high and very high FHSZs, which is generally limited to Area A. Impacts would be less than significant with mitigation incorporated.

The pipelines, laterals, and septic abatement would be installed in areas that are either flat or have shallow slopes. Implementation of the proposed pipelines, laterals, and septic abatement would not substantially exacerbate wildfire risks, as once construction is completed, the pipelines would be located belowground.

Smoke from wildfires that may occur in the very high and high FHSZs surrounding the project area may generally impact air quality throughout the Coachella Valley region during a fire. Thus, workers in the project area could be exposed to the plume of smoke from a wildfire in the San Bernardino Mountains to the east, Mount San Jacinto to the south/southwest, or Little San Bernardino Mountains surrounding the project area, but the proposed pipelines, laterals, and septic abatement will not contribute to any substantial increase in this exposure. Due to the character of the facilities (belowground), the proposed pipelines, laterals, and septic abatement would not contribute substantially to the uncontrolled spread of a wildfire. Thus, operational impacts would be less than significant.

c. *Less Than Significant With Mitigation Incorporated* – At this time, sewer pipeline and laterals within a small portion of Area A are proposed for an area designated as high or very high FHSZs on the Fire Hazard Severity Zone maps provided on (**Figures IX-11 and IX-12**). The potential that such pipelines could exacerbate fire risk or cause short- or long-term impacts to the environment related to this hazard is minimal because existing roadways and dirt compacted ROW within which the sewer pipelines and laterals would be installed are periodically maintained under existing conditions. Further, the septic abatement would occur within existing parcels and the disturbance of the small area within which septic abatement would occur are maintained by the property owners. The construction of proposed project high fire risk locations could exacerbate fire risk in these areas as a result of spark-producing equipment use during operations and construction, and could therefore result in both temporary and ongoing impacts on the environment. However, the implementation of **MM WF-2** under such circumstances would be available to reduce any project contribution to greater fire risk to a less than significant impact level. The implementation of **MM WF-2** would require the preparation of a fire management plan/fuel modification plan for project infrastructure proposed within very high FHSZs, and it would identify comprehensive strategies to reduce fire potential during construction and over long-term operation. Additionally, over the long-term, the pipelines will be essentially passive and will not contribute to increased access or other activities that could contribute to greater fire risk in the future. Thus, the proposed project would not result in any significant adverse short- or long-term wildfire impacts. Impacts would be less than significant with the implementation of mitigation.

The sewer pipelines and laterals would be installed belowground. The potential for operational wildfire impacts would be negligible given that these facilities would convey sewage belowground, and as such, would operate in a passive manner. Therefore, no operational impacts are anticipated.

d. *Less Than Significant With Mitigation Incorporated* – While the proposed pipelines, laterals, and septic abatement have a small surface footprint that can be constructed within existing paved roadways, compacted ROW, and compacted and potentially landscaped surfaces within which septic abatement would occur to minimize potential fire hazards, the installation could expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes. Thus, implementation of **MM WF-2** is required; it would require the preparation of a fire management plan/fuel modification plan with comprehensive strategies to reduce fire potential during construction within high and very high FHSZs. Based on this evaluation, the construction of the sewer pipelines and laterals, and septic abatement can be accomplished without causing potentially significant impacts through the implementation of **MM WF-2**. Further, the proposed project will not install any structures, habitable or otherwise. Based on the above discussion, implementation of **MM WF-2** is required to minimize the potential for development of the sewer pipelines and laterals, and septic abatement to expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes to a level of less than significant.

The pipelines and laterals would be installed belowground, and the septic abatement activities would occur belowground. The potential for operational wildfire impacts would be negligible given that, once operational, the proposed sewer pipelines and laterals would convey wastewater belowground, and as such, would operate in a passive manner. Therefore, no operational impacts are anticipated.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact or Does Not Apply
XXI. MANDATORY FINDINGS OF SIGNIFICANCE:				
a) Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?	☐	☒	☐	☐
b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?	☐	☒	☐	☐
c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?	☐	☒	☐	☐

SUBSTANTIATION

The analysis in this Initial Study and the findings reached indicate that the proposed project can be implemented without causing any new project specific or cumulatively considerable unavoidable significant adverse environmental impacts. Mitigation is required to control potential environmental impacts of the proposed project to a less than significant impact level. The following findings are based on the detailed analysis of the Initial Study of all environmental topics and the implementation of the mitigation measures identified in the previous text and summarized following this section.

Impact Analysis

a. *Less Than Significant With Mitigation Incorporated* – The proposed project has potential to cause a significant impact to any biological or cultural resources without the implantation of mitigation. As previously stated under issue IV, Biological Resources, within the I-10 corridor, the project would require pipeline installation through an area consisting of native desert. It is not anticipated that any operational activities would occur within this area once the pipeline is installed beyond in the event of an emergency, in which case, a biological monitor would be called upon to be present during any repairs to ensure that any unforeseen impacts to special status species would be less than significant. This shall be enforced through implementation of **MM BIO-1**. Further, during construction or operation near environmentally sensitive areas, such as within the more sparsely developed areas, such as around the I-10 corridor, or along areas that border the CVMSHCP Conservation areas, such as the I-10 corridor, Area A, Area J-2, and Area K, wildlife exclusion fencing shall be installed as

appropriate to deter wildlife from entering the project area, thereby protecting special status wildlife species from potential project-related impacts through **MM BIO-2**. Implementation of **MMs BIO-3 through BIO-7** will ensure that project construction impacts, both direct, and indirect, to sensitive biological resources and potential special status species and habitats, including the potential effects of invasive species, are reduced to a level of insignificance. **MM BIO-8** would ensure that direct impacts to the special status species are mitigated through avoidance, mitigation or compensation in accordance with regulatory requirements including compliance with CDFW and USFWS through the acquisition of incidental take permits where required. This would avoid or compensate for potential "take" of such species. **MM BIO-9** would ensure that the protective mitigation measures for BUOW provided herein are successfully implemented for the duration of construction and operation of future individual projects under the proposed GQPP Septic to Sewer Project umbrella. If BUOW are determined to be present within the project area prior to project implementation, then any potential project related impacts to BUOW would need to be avoided and coordination with the CDFW may be required. **MM BIO-9** would ensure protection of this species in light of project implementation. MSWD will likely be required to obtain the following regulatory approvals prior to impacts occurring within the identified jurisdictional areas: Corps Approved Jurisdictional Determination/Waiver; Regional Board CWA Section Report of Waste Discharge; and CDFW Section 1602 SAA, as a result, **MM BIO-10** would be required to ensure that these permits and the mitigation specified therein are obtained and implemented to protect jurisdictional features. The State does protect all migratory and nesting native birds. Further, the project APE and surrounding area consists of habitat that is suitable to support nesting birds. Thus, the project area may include areas that function as nesting locations for native birds. To avoid impacting nesting birds as required by the MBTA and California FGC, **MM BIO-11** shall be implemented. The project will need to conform with the Guidelines for projects that are adjacent CVMSHCP Conservation Areas. Thus, the proposed project shall be required to adhere to the CVMSHCP guidelines through the implementation of **MM BIO-12**. These mitigation measures will ensure that the project would not degrade the quality of the natural environment, substantially reduce habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, or reduce the number or restrict the range of a rare or endangered plant or animal.

.As previously stated under issue V, Cultural Resources, since the APE lies predominantly within the paved roadbeds of existing public roads or on adjacent private properties, standard subsurface exploration procedures known as Extended Phase I do not appear to be a feasible approach to determine the presence or absence of subsurface cultural remains in the vertical APE. In order to identify such remains in a timely manner and, if necessary, protect them from project impact, it is recommended that excavations and other ground-disturbing operations that will reach beyond the roadbed fill (generally speaking the uppermost five to six feet of surface and near-surface soils) in the archaeologically sensitive areas be conducted under the direction and close observation of a qualified archaeologist. If any potentially significant cultural remains are encountered, the mechanical excavations should be halted or diverted while an archaeological team recovers the materials through procedures consistent to a Phase II archaeological testing program. **MMs CUL-1 through CUL-3** would ensure that impacts to cultural resources would be less than significant. Please see biological and cultural sections of this Initial Study.

b. *Less Than Significant With Mitigation Incorporated* – Based on the analysis in this Initial Study, the proposed GQPP Septic to Sewer Project has the potential to cause impacts that are individually or cumulatively considerable. There are no other projects in the vicinity to which this project would

make a cumulatively considerable impact, furthermore the provision of wastewater collection is generally viewed as a benefit to the community. The issues of Aesthetics, Biological Resources, Cultural Resources, Geology and Soils, Hazards and Hazardous Materials, Hydrology and Water Quality, Noise, Population and Housing, Public Services, Transportation, Tribal Cultural Resources, Utilities and Service Systems, and Wildfire require the implementation of mitigation measures to reduce impacts to a less than significant level and ensure that cumulative effects are not cumulatively considerable. All other environmental issues were found to have no significant impacts without implementation of mitigation. The potential cumulative environmental effects of implementing the proposed project have been determined to be less than considerable through the implementation of mitigation and thus, less than significant impacts.

c. *Less Than Significant With Mitigation Incorporated* – The project will achieve long-term community goals by protecting water quality of the upper Coachella Valley Groundwater Basin through septic abatement by way of sewage collection. The short-term impacts associated with the project, which are mainly construction-related impacts, are less than significant with mitigation, and the proposed project is compatible with long-term environmental protection. The issues of Geology and Soils, Hazards and Hazardous Materials, Noise, and Wildfire require the implementation of mitigation measures to reduce potential human impacts to a less than significant level. All other environmental issues were found to have no significant impacts on humans without implementation of mitigation. The potential for direct human effects from implementing the proposed project have been determined to be less than significant.

Conclusion

This document evaluated all CEQA issues contained in the Initial Study Checklist form. The evaluation determined that either no impact or less than significant impacts would be associated with the issues of Agricultural and Forestry Resources, Air Quality, Energy, Greenhouse Gas Emissions, Land Use and Planning, Mineral Resources, Population and Housing, and Recreation. The issues of Aesthetics, Biological Resources, Cultural Resources, Geology and Soils, Hazards and Hazardous Materials, Hydrology and Water Quality, Noise, Population and Housing, Public Services, Transportation, Tribal Cultural Resources, Utilities and Service Systems, and Wildfire require the implementation of mitigation measures to reduce impacts to a less than significant level. The required mitigation has been proposed in this Initial Study to reduce impacts for these issues to a less than significant impact and the MSWD will implement these measures.

Based on the findings in this Initial Study, the MSWD proposes to adopt a Mitigated Negative Declaration (MND) for the Mission Springs Water District GQPP Septic to Sewer Project. A Notice of Intent to Adopt a Mitigated Negative Declaration (NOI) will be issued for this project by the MSWD. The Initial Study and NOI will be circulated for 30 days of public comment. At the end of the 30-day review period, a final MND package will be prepared and it will be reviewed by MSWD for possible adoption at a future Board meeting, the date for which has yet to be determined. If you or your agency comments on the MND/NOI for this project, you will be notified about the meeting dates in accordance with the requirements in Section 21092.5 of CEQA (statute).

Note: Authority cited: Sections 21083 and 21083.05, Public Resources Code. Reference: Section 65088.4, Gov. Code; Sections 21080(c), 21080.1, 21080.3, 21083, 21083.05, 21083.3, 21093, 21094, 21095, and 21151, Public Resources Code; *Sundstrom v.*

County of Mendocino,(1988) 202 Cal.App.3d 296; *Leonoff v. Monterey Board of Supervisors*, (1990) 222 Cal.App.3d 1337; *Eureka Citizens for Responsible Govt. v. City of Eureka* (2007) 147 Cal.App.4th 357; *Protect the Historic Amador Waterways v. Amador Water Agency* (2004) 116 Cal.App.4th at 1109; San *Franciscans Upholding the Downtown Plan v. City and County of San Francisco* (2002) 102 Cal.App.4th 656.

Revised 2019
Authority: Public Resources Code sections 21083 and 21083.09
Reference: Public Resources Code sections 21073, 21074, 21080.3.1, 21080.3.2, 21082.3/ 21084.2 and 21084.3

SUMMARY OF MITIGATION MEASURES

Aesthetics

AES-1 The project shall implement at least the following measures, unless they conflict with the local jurisdiction's light requirements, in which case the local jurisdiction's requirements shall be enforced:

- Use of low-pressure sodium lights where security needs require such lighting to minimize impacts of glare.
- The height of lighting fixtures shall be lowered to the lowest level consistent with the purpose of the lighting to reduce unwanted illumination.
- Directing light and shielding shall be used to minimize off-site illumination during both construction of the project.
- No light shall be allowed to intrude into sensitive light receptor areas during both construction of the project.
- Non-reflective materials and/or coatings shall be used on the exterior of all facilities if constructed in a publicly visible location (such as from a roadway or public facility).

Biological Resources

BIO-1 Exclusion barriers (e.g., silt fences) will be installed at the edge of the construction footprint and along the outer perimeter of Environmentally Sensitive Areas and Environmentally Restricted Areas as defined by the project biologist prior to the commencement of construction activities to restrict special-status species from entering the construction area during construction. The design specifications of the exclusion fencing will be determined through consultation with the USFWS and/or CDFW, as appropriate. Clearance surveys will be conducted for special-status species after the exclusion fence is installed in compliance with USFWS and/or CDFW requirements. The project biologist shall determine the frequency in which clearance surveys will be conducted to determine the efficacy of the exclusion fencing.

BIO-2 All food-related trash items (e.g., wrappers, cans, bottles, food scraps) will be disposed of in closed containers and removed at least once a week from the construction site.

BIO-3 Use of rodenticides and herbicides in the project footprint will be restricted at the direction of the project biologist. This measure is necessary to prevent poisoning of special-status species and the potential reduction or depletion of the prey populations of special–status wildlife species. Where pesticides must be used, they must be used in full accordance with use instructions for the particular chemical and at the direction of the project biologist.

BIO-4 Prior to the commencement of construction, MSWD shall identify staging areas for construction equipment to be utilized during construction that will be located outside sensitive biological resources areas, including habitat for special-status species, jurisdictional waters, and wildlife movement corridors.

During construction and operation, the contractor shall eliminate all nonessential lighting throughout the project area and avoid or limit the use of artificial light during the hours of dawn

and dusk when many wildlife species are most active. The contractor shall ensure that construction lighting for project activities is shielded, cast downward, and does not spill over onto other properties or upward into the night sky. The contractor shall ensure use of LED lighting with a correlated color temperature of 3,000 Kelvins or less, proper disposal of hazardous waste, and recycling of lighting that contains toxic compounds with a qualified recycler.

BIO-5 Plastic mono-filament netting (erosion-control matting) or similar material will not be used in erosion control materials to prevent potential harm to wildlife. Materials such as coconut coir matting or tackified hydroseeding compounds will be used as substitutes.

BIO-6 All excavated, steep-sided holes or trenches more than 8 inches deep will be covered at the close of each working day with plywood or similar materials, or a minimum of one escape ramp constructed of earth fill for every 10 feet of trenching will be provided to prevent the entrapment of wildlife. Before such holes or trenches are filled, they will be thoroughly inspected for trapped animals. All culverts or similar enclosed structures with a diameter of 4 inches or greater will be covered, screened, or stored more than 1 foot off the ground to prevent use by wildlife. Stored material will be cleared for common and special-status wildlife species before the pipe is subsequently used or moved.

BIO-7 Pre-Construction Consultations. Each area or project considered under this GQPP Septic to Sewer Update umbrella shall be required to consult with a biologist to determine the need for site-specific biological surveys. Where an area under this GQPP Septic to Sewer Update umbrella has been determined to require a site-specific survey by a biologist, in any case in which the project will affect undeveloped land, site surveys shall be conducted by a biologist. If sensitive species are identified as a result of the survey for which mitigation/compensation must be provided in accordance with regulatory requirements, all work must stop in the area until the following subsequent mitigation actions are taken:

1. MSWD shall provide compensation for sensitive habitat acreage lost by acquiring and protecting in perpetuity (through property or mitigation bank credit acquisition) habitat for the sensitive species at a ratio of not less than 1:1 for habitat lost. The property acquisition shall include the presence of at least one animal or plant per animal or plant lost at the development site to compensate for the loss of individual sensitive species.
2. The final mitigation may differ from the above values based on negotiations between the project proponent and USFWS and CDFW for any incidental take permits for listed species. MSWD shall retain a copy of the incidental take permit as verification that the mitigation of significant biological resource impacts at a project site with sensitive biological resources has been accomplished.
3. Preconstruction botanical surveys for special-status plant communities and special- status plant species will be conducted when needed in areas that were not previously surveyed because of access or timing issues or project design changes. Pre-construction surveys for special-status plant communities and special-status plant species will be conducted before the start of ground-disturbing activities during the appropriate blooming period(s) for the species.

BIO-8 Each area or project considered under this GQPP Septic to Sewer Update umbrella shall be required to conduct focused burrowing owl surveys. The burrowing owl surveys shall be

conducted by a qualified biologist in accordance with the Staff Report on Burrowing Owl Mitigation (2012 or most recent version) prior to any construction activities, including vegetation- or ground-disturbing activities. If burrowing owls are detected during the focused surveys, the qualified biologist and MSWD shall begin coordination with CDFW and USFWS immediately, and shall submit the results of focused surveys to CDFW and USFWS as soon results become available and before commencement of any project activities, including any vegetation- or ground- disturbing activities. The information included in the survey results should be consistent with Appendix D of the Staff Report on Burrowing Owl Mitigation, including a detailed map showing locations of all burrowing owls, burrowing owl sign, potential burrows, and occupied burrows (occupied means at least one burrowing owl or its sign has been observed within the last three years; may be indicated by owl sign including feathers, pellets, prey remains, eggshell fragments, or excrement at or near a burrow entrance or perch site); a description of the behavior of burrowing owls during surveys; a description of survey methods; and other items listed in Appendix D of the Staff Report on Burrowing Owl Mitigation under "Survey Reports." Consultation with CDFW and USFWS must be completed prior to commencement of any Project activities, including vegetation- or ground-disturbing activities. If impacts to occupied burrowing owl habitat or burrow(s) or burrowing owl individuals, nests, or eggs cannot be avoided, appropriate NCCP (Fish and Game Code section 2835) or CESA authorization (i.e., Incidental Take Permit under Fish and Game Code section 2081(b)) should be obtained from CDFW prior to commencement of project activities, including vegetation- or ground-disturbing activities.

BIO-9 For the Little Morongo Creek crossing at Augusta Avenue, California Department of Fish and Wildlife (CDFW) shall be notified pursuant to Fish and Game Code section 1602. If CDFW determines that the Project may substantially affect fish and wildlife resources, then CDFW shall issue a Streambed Alternation Agreement (Agreement). The Agreement shall include measures to avoid, minimize, and mitigate impacts to Fish and Game Code section 1602 resources.

Through an Agreement from CDFW and/or other agencies (Corps, Regional Board [regulatory agencies]) with jurisdiction over impacts to jurisdictional waters, the District shall minimize discharge of fill to the extent feasible, and any discharge of fill not avoidable and all impacts to Fish and Game Code section 1602 resources shall be authorized and mitigated through compensatory mitigation in an Agreement. Mitigation shall be provided by restoration of temporary impacts, enhancement of existing resources, or for permanent impacts as follows: purchasing into CDFW, Corps, or Regional Board authorized mitigation bank; or by selecting a site near the Project site and enhancing it with a native riparian habitat or invasive species removal in accordance with a habitat mitigation plan approved by regulatory agencies; or by acquiring sufficient compensating habitat to meet regulatory agency requirements. Impacts to jurisdictional waters shall be mitigated at a minimum 1:1 ratio, with the ultimate compensatory mitigation ratio being determined through negotiation with regulatory agency, and never at a rate of less than 1:1. The ratio will rise based on the type of habitat, habitat quality, and presence of sensitive or listed plants or animals in the affected area. This ratio will be determined by the regulatory agency, and must be deemed sufficient by the regulatory agency issuing the permit to compensate for/offset the impacts to the jurisdictional waters and supported species and habitats therein. A Habitat Mitigation and Monitoring Proposal shall be prepared by a biologist or regulatory specialist and reviewed and approved by the appropriate regulatory agencies. These agencies (Corps, Regional Board, CDFW and any other applicable regulatory agency with jurisdiction over the proposed facility improvement) can impose greater mitigation requirements

in their permits, but the District will utilize the ratios outlined above as the minimum required to offset or compensate for impacts to jurisdictional waters, riparian areas or other wetlands.

the State does protect all migratory and nesting native birds. Further, the project APE and surrounding area consists of habitat that is suitable to support nesting birds. Thus, the project area may include areas that function as nesting locations for native birds. To avoid impacting nesting birds as required by the MBTA and California FGC, the following mitigation measure shall be implemented:

BIO-10 Regardless of the time of year, a preconstruction survey shall be performed to verify absence of nesting birds. A qualified biologist shall conduct the pre-activity survey within the project areas (including access routes) and a 500-foot buffer surrounding the project areas, no more than three (3) days prior to the initiation of project activities, including, but not limited to clearing, grubbing, and/or rough grading to prevent impacts to birds and their nests. Pre-construction surveys shall focus on both direct and indirect evidence of nesting, including nest locations and nesting behavior. The qualified biologist shall make every effort to avoid potential nest predation as a result of survey and monitoring efforts. If nesting bird activity is present within the work area or the project's zone of influence (generally 100-300 feet), a no disturbance buffer zone shall be established by the qualified biologist to be marked on the ground around each nest. The buffer shall be a minimum of 500 feet for raptors and 300 feet for songbirds, unless a smaller buffer is specifically determined by a qualified biologist familiar with the nesting phenology of the nesting species. The buffer areas shall be avoided until the nests are no longer occupied and the juvenile birds can survive independently from the nests. Active nest(s) and an established buffer distance(s) shall be monitored daily by the qualified biologist until the qualified biologist has determined the young have fledged or the project has been completed. The qualified biologist has the authority to stop work if nesting pairs exhibit signs of disturbance. If there is no nesting activity, then no further action is needed for this measure. If an active nest is encountered during the project construction, construction shall stop immediately until a qualified biologist can determine (1) the status of the nest, and (2) when work can proceed without risking violation to state or federal laws.

BIO-11 The project shall be required to comply with the provisions of the Coachella Valley Multi-Species Habitat Conservation Plan requirements for projects adjacent to Conservation Areas, where construction occurs adjacent to Conservation Areas (the nearest Conservation Area is along the southern border of Area A and the northern border of Area K and J-2 (Upper Mission Creek Covered/Big Morongo Canyon Conservation Area) and the eastern border of Area I-10.

1) Drainage – Proposed Development adjacent to or within a Conservation Area shall incorporate plans to ensure that the quantity and quality of runoff discharged to the adjacent Conservation Area is not altered in an adverse way when compared with existing conditions. Stormwater systems shall be designed to prevent the release of toxins, chemicals, petroleum products, exotic plant materials or other elements that might degrade or harm biological resources or ecosystem processes within the adjacent Conservation Area.
2) Toxics – Land uses proposed adjacent to or within a Conservation Area that use chemicals or generate byproducts such as manure that are potentially toxic or may adversely affect wildlife and plant species, Habitat, or water quality shall incorporate measures to ensure that application of such chemicals does not result in any discharge to the adjacent Conservation

Area.

3) Lighting – For proposed Development adjacent to or within a Conservation Area, lighting shall be shielded and directed toward the developed area. Landscape shielding or other appropriate methods shall be incorporated in project designs to minimize the effects of lighting adjacent to or within the adjacent Conservation Area in accordance with the guidelines to be included in the Implementation Manual.
4) Noise – Proposed Development adjacent to or within a Conservation Area that generates noise in excess of 75 dBA Leq hourly shall incorporate setbacks, berms, or walls, as appropriate, to minimize the effects of noise on the adjacent Conservation Area in accordance with the guidelines to be included in the Implementation Manual.
5) Invasives – Invasive, non-native plant species shall not be incorporated in the landscape for land uses adjacent to or within a Conservation Area. Landscape treatments within or adjacent to a Conservation Area shall incorporate native plant materials to the maximum extent Feasible; recommended native species are listed in Table 4-112 [of the CVMSHCP]. The plants listed in Table 4-113 [of the CVMSHCP] shall not be used within or adjacent to a Conservation Area. This list may be amended from time to time through a Minor Amendment with Wildlife Agency Concurrence.

Cultural Resources

CUL-1 Should any cultural resources be encountered during construction of these facilities, earthmoving or grading activities in the immediate area of the finds shall be halted and an onsite inspection shall be performed immediately by a qualified archaeologist. Responsibility for making this determination shall be with the District's onsite inspector. The archaeological professional shall assess the find, determine its significance, and make recommendations for appropriate mitigation measures within the guidelines of the California Environmental Quality Act.

CUL-2 Due to the heightened cultural sensitivity of the proposed project area, a Qualified Archaeologist (Secretary of the Interior's Standards and Guidelines) shall be present for excavations and other ground-disturbing operations that will reach beyond the roadbed fill (generally speaking the uppermost five to six feet of surface and near-surface soils) in the archaeologically sensitive areas (specifically within Areas H and I). A sufficient number of archaeological monitors shall be present each work day to ensure that simultaneously occurring ground disturbing activities receive thorough levels of monitoring coverage. A Monitoring and Treatment Plan that is reflective of the project mitigation shall be completed by the archaeological consultant and submitted to the District and shall be approved by the District prior to implementation. Any and all findings will be subject to the protocol detailed within the Monitoring and Treatment Plan.

CUL-3 If any potentially significant cultural remains are encountered, the mechanical excavations shall be halted or diverted while an archaeological team recovers the materials through procedures consistent to a Phase II archaeological testing program. These procedures should include, at a minimum, the following:

- Hand excavations in the immediate vicinity of unearthed cultural remains to remove all artifacts;
- Immediate notification of the Riverside County Coroner and consultation with the NAHC

and local Native American groups if human remains or potential human remains are discovered, pursuant to California Health and Safety Code §7050.5 and Public Resources Code §5097.98;

- Cataloguing, laboratory analysis, and permanent curation of the recovered artifacts;
- Compilation of archaeological site records and/or site record updates, as appropriate, to document any archaeological discoveries in the California Historical Resources Inventory;
- Preparation of a final report as a comprehensive record of the research procedures and study findings.

Geology and Soils

GEO-1 For each site-specific project that is less than one acre in size requiring ground disturbing activities such as grading, the implementing agencies shall identify and implement BMPs to minimize soil erosion and loss of topsoil comparable to that which would be required under a SWPPP (BMPs may include, but are not limited to hay bales, wattles, detention basins, silt fences, coir rolls, etc.) to ensure that the discharge of the storm runoff from the construction site does not cause erosion downstream of the discharge point. If any substantial erosion or sedimentation occurs as a result of discharging storm water from a project construction site, any erosion or sedimentation damage shall be restored to pre-discharge conditions.

GEO-2 All earth-moving operations reaching beyond the disturbed surface soils (generally five to six feet in depth within the existing roadbed) shall be monitored by a qualified paleontological monitor. The monitor shall be prepared to quickly salvage fossils as they are unearthed to avoid construction delays and shall collect samples of sediments that are likely to contain fossil remains of small vertebrates or invertebrates. However, the monitor must have the power to temporarily halt or divert grading equipment to allow for the removal of abundant or large specimens.

Collected samples of sediment shall be processed to recover small fossils, and all recovered specimens shall be identified and curated at a repository with permanent retrievable storage.

A report of findings, including an itemized inventory of recovered specimens, shall be prepared upon completion of the procedures outlined above. The report shall include a discussion of the significance of the paleontological findings, if any. The report and the inventory, when submitted to the MSWD and the USACE, would signify completion of the statutory compliance process regarding paleontological resources.

Hazards and Hazardous Materials

HAZ-1 For project facilities that handle hazardous materials or generate hazardous waste, the HMBP prepared and submitted to the CUPA shall incorporate BMPs designed to minimize the potential for accidental release of such chemicals and shall meet the standards required by California law for HMBPs. The facility managers shall implement these measures to reduce the potential for accidental releases of hazardous materials or wastes. The HMBP shall be approved prior to operation of the given facility.

HAZ-2 The HMBP shall assess the potential accidental release scenarios and identify the equipment

and response capabilities required to provide immediate containment, control, and collection of any released hazardous material. Prior to issuance of the certificate of occupancy, each facility shall ensure that necessary equipment has been installed and training of personnel has occurred to obtain sufficient resources to control and prevent the spread of any accidentally released hazardous or toxic materials.

HAZ-3 All hazardous materials that become waste during both operation and construction of project infrastructure shall be delivered to a licensed treatment, disposal, or recycling facility and be disposed of in accordance with State and Federal law.

HAZ-4 Before determining that an area contaminated as a result of an accidental release during project operation or construction is fully remediated, specific thresholds of acceptable clean-up shall be established and sufficient samples shall be taken and tested within the contaminated area to verify that these clean-up thresholds have been met in compliance with State and Federal law.

HAZ-5 All accidental spills or discharge of hazardous material during construction activities shall be reported to the local CUPA and shall be remediated in compliance with applicable Federal, State, and local regulations regarding cleanup and disposal of the contaminant released. The contaminated waste shall be collected and disposed of at a licensed disposal or treatment facility. This measure shall be incorporated into SWPPP prepared for each future facility developed under the project, or where an SWPPP is not required due Project size, shall be incorporated as a BMP. Prior to accepting the site as remediated, the area contaminated shall be tested to verify that any residual concentrations meet the standard for future residential or public use of the site.

Hydrology and Water Quality

HYD-1 Prior to the commencement of construction of any individual project under this proposed GQPP Septic to Sewer Project umbrella that will disturb less than one acre (i.e., that is not subject to the California Construction Stormwater General Permit), the Implementing Agency shall require implementation of and construction contractor(s) shall select best management practices (BMPs) to achieve a reduction in pollutants from stormwater discharge to the maximum extent practicable during construction, and to control urban runoff after each individual project under this proposed GQPP Septic to Sewer Project umbrella is in operation. Examples of BMP(s) that would achieve a reduction in pollutants include, but are not limited to:

- The use of silt fences or coir rolls;
- The use of temporary stormwater desilting or retention basins;
- The use of water bars to reduce the velocity of stormwater runoff;
- The use of wheel washers on construction equipment leaving the site;
- The washing of silt from public roads at the access point to the site to prevent the tracking of silt and other pollutants from the site onto public roads;
- The storage of excavated material shall be kept to the minimum necessary to efficiently perform the construction activities required. Excavated or stockpiled material shall not be stored in water courses or other areas subject to the flow of surface water; and
- Where feasible, stockpiled material shall be covered with waterproof material during rain events to control erosion of soil from the stockpiles.

Public Services

PS-1 The project construction equipment shall be fenced or otherwise have access controlled at the close of each work day. Furthermore, the project shall include security lighting to deter illegal trespass to attractive nuisances as part of construction. The security lighting shall be shielded from adjacent sensitive receptors in accordance with the jurisdiction within which construction occurs Municipal Code.

Transportation

TRAN-1 Prepare and Implement Construction Transportation Management Plan (TMP)
A construction TMP shall be developed and implemented by the implementing agency, in coordination with the respective jurisdictions, the City of Desert Hot Springs, County of Riverside Transportation Department, and/or other relevant parties during construction of the proposed project. The TMP shall conform to Caltrans' Transportation Management Plan Guidelines and shall include but is not limited to:

Construction Traffic Routes and Staging Locations: The TMP shall identify construction staging site locations and potential road closures, alternate routes for detours, and planned truck routes for construction-related vehicle trips, including but not limited to haul trucks, material delivery trucks, and equipment delivery trucks. It shall also identify alternative safe routes and policies to maintain safety along bicycle and pedestrian routes during construction. Construction vehicle routes shall avoid local residential streets and avoid peak morning and evening commute hours to the maximum extent practicable. Staging locations, alternate detour routes, and construction vehicle routes shall avoid other active construction projects within 0.25 mile of the project construction sites to the maximum extent practicable.

Damage Repair: The TMP shall include the following requirements to minimize damage to the existing roadway network:

- A list of precautionary measures to protect the existing roadway network, including but not limited to pavements, curbs, gutters, sidewalks, and drainage structures, shall be outlined. The construction contractor(s) shall be required to implement these measures throughout the duration of construction of the proposed sewer pipeline.
- The roadway network along the proposed sewer pipeline alignment(s) shall be surveyed prior to the start of project construction activities, and existing roadway conditions shall be summarized in a brief report.
- Any damage to the roadway network that occurs as a result of project construction activities shall be noted, and MSWD or its contractors shall repair all damage.

Coordination with Emergency Services: The TMP shall include requirements to notify local emergency response providers, including relevant police and sheriff departments, ambulance services, and paramedic services at least one week prior to the start of work within public ROW if lane and/or road closures are required. To the extent practicable, the duration of disruptions/closures to roadways and critical access points for emergency services shall be minimized.

Coordination with Active Transportation Facilities: The TMP shall require coordination with owners/operators of any affected active transportation facilities to minimize the duration of disruptions/closures to bike paths, pedestrian trails, and adjacent access points.

Coordination with Riverside Transit Agency (RTA): If the proposed project affects access to existing transit stops, the TMP shall also include temporary, alternative transit stops and directional signage, as determined in coordination with RTA.

Coordination with Caltrans: If the proposed project requires lane and/or road closures of State highways or State highway ramps, the TMP shall require coordination with Caltrans to ensure the TMP conforms with Caltrans' Transportation Management Plan Guidelines.

Coordination with Nearby Construction Sites: The TMP shall identify all active construction projects within 0.25 mile of project construction sites and require coordination with the applicants and/or contractors of these projects during all phases of construction regarding the following:

- All temporary lane and/or roadway closures shall be coordinated to limit overlap of roadway closures;
- All major deliveries and haul truck trips shall be coordinated to limit the occurrence of simultaneous deliveries and haul truck trips; and
- MSWD, its contractor(s), or its representative(s) shall meet on a regular basis with the applicant(s), contractor(s) or their representative(s) of active construction projects within 0.25 mile of the project construction sites during construction to address any outstanding issues related to construction vehicles.

Transportation Control and Safety: The TMP shall provide for roadway vehicle control measures including flag persons, warning signs, lights, barricades, cones, and/or detour routes to provide safe passage of vehicular, bicycle, and pedestrian circulation and access by emergency responders.

Plan Approval: The TMP shall be reviewed and approved by the local agency with authority over construction within the public ROW for review and approval.

Tribal Cultural Resources

TCR-1 Native American Cultural Monitor: Prior to the issuance of grading permits, MSWD shall develop an agreement with the Agua Caliente Band of Cahuilla Indians-Tribal Historic Preservation Office for the appropriate number of Native American Cultural Monitor(s). The Native American Cultural Monitor(s) shall attend the pre-construction meeting with the contractors to provide Cultural Sensitivity Training for all construction personnel. The Native American Cultural Monitor(s) shall be on site during ground disturbing activities on undisturbed soils and disturbance of section G, H, and I including clearing, grubbing, tree removals, grading and trenching. The Native American Cultural Monitor(s) have the authority to temporarily divert, redirect or halt the ground disturbance activities to allow identification, evaluation, and potential recovery of cultural resources.

TCR-2 Inadvertent Discoveries: MSWD or any successor in interest shall comply with the following for the life of this permit. If during ground disturbance activities, unanticipated cultural resources are discovered, the following procedures shall be followed: All ground disturbance activities within 50 feet of the discovered cultural resource shall be halted and a meeting shall be convened between the Native American tribal representative and MSWD to discuss the significance of the find. At the meeting with the aforementioned parties, a decision is to be made, with the concurrence of the consulting Tribe(s), as to the appropriate treatment (documentation, recovery, avoidance etc.) for the cultural resource. A Secretary of the Interior qualified archaeologist shall be retained if deemed necessary by the parties involved. Resource evaluations shall be limited to nondestructive analysis. Further ground disturbance shall not resume within the area of the discovery until the appropriate treatment has been accomplished.

TCR-3 Reburial Protocol: Prior to issuance of grading permits: the developer/applicant shall come to an agreement with the consulting tribes indicating an area on-site which will be used, if needed, for reburial of any artifacts that have been identified during the duration of the project and cannot be avoided. The location has to be kept confidential and in an area that will not be disturbed in the future.

TCR-4 Human Remains: Pursuant to the California Health and Safety Code Section 7050.5, in the event of discovery of any human remains on the project site, there shall be no further excavation or disturbance of the site, or any nearby area reasonably suspected to overlay adjacent remains, until the County Coroner has examined the remains. If the coroner determines the remains to be Native American or has reason to believe that they are those of Native American, the coroner shall contact the NAHC within 24-hours, and the NAHC will be responsible for identifying the Most Likely Descendant (MLD) and contacting them for ongoing consultation and resolution. The project will be subject to these requirements during all construction and excavation activities. Compliance with the California Health and Safety Code will ensure that should there be a discovery of any human remains during project construction activities, impacts would be reduced to less than significant levels.

Utilities and Service Systems

UTIL-1 The contract with demolition and construction contractors for any individual project under this proposed GQPP Septic to Sewer Project umbrella shall include the requirement that all materials that can feasibly be recycled shall be salvaged and recycled. This includes but is not limited to wood, metals, concrete, road base, soil and asphalt. The contractors for any individual project under this proposed GQPP Septic to Sewer Project umbrella shall submit a recycling plan to the implementing agency for review and approval prior to issuance of permits for the construction of demolition/construction activities.

UTIL-2 The contract with demolition and construction contractors for any individual project under this proposed GQPP Septic to Sewer Project umbrella shall include the requirement that all soils that are planned to be exported from the site that can be recycled shall be recycled for re-use; alternatively, soils shall be reused on site to balance soil import/export.

Wildfire

WF-1 Prior to initiating construction of proposed sewer pipeline and laterals within public ROW, MSWD shall prepare and implement a traffic control plan that contains comprehensive strategies for maintaining emergency access during construction. Strategies shall include, but are not limited to, maintaining steel trench plates at the construction sites to restore access across open trenches, flag persons and related assets to manage the flow of traffic, and identification of alternate routing around construction zones, where necessary. In addition, police, fire, and other emergency service providers (local agencies, Caltrans, and other service providers) shall be notified of the timing, location, and duration of the construction activities and the location of detours and lane closures. MSWD shall ensure that the traffic control plan and other construction activities are consistent with the County of Riverside Emergency Operations Plan, and are reviewed and approved by the local agency with authority over construction within the public ROW.

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Urban Crossroads, 2026. *Mission Springs Noise and Vibration Analysis* (Appendix 6)

AGENDA STAFF REPORT

MEETING NAME: REGULAR BOARD MEETINGS
MEETING DATE(S): JUNE 11 & 15, 2026
FROM: Kurt Kettenacker, IT Manager

FOR: ACTION _X_ DIRECTION ____ INFORMATION ____

CONTRACT AGREEMENT RENEWAL WITH INTELESYS COMMUNICATIONS SERVICES FOR INFORMATION TECHNOLOGY PROFESSIONAL SERVICES

STAFF RECOMMENDATION

It is recommended to authorize the General Manager to enter into a contract with Intelesys Communications Services for Information Technology (IT) Professional Services for the twelve-month period of July 1, 2026 to June 30, 2027, in the amount of $247,870.08, plus a 10% contingency for a total of $272,657.09, and do all things necessary to execute the agreement.

SUMMARY

Intelesys Communications Services, the District's IT managed service provider, was awarded a three-year contract through a public Request for Qualifications (RFQ), with annual renewals. As the District has been satisfied with their performance, staff recommends renewal for the third year. The proposed contract amount includes the monthly quoted cost for consulting, helpdesk, maintenance, and licensing services, as well as estimated costs for potential project work. Including these project estimates allows Intelesys to submit more competitive bids and reduces the need for future contract amendments.

ANALYSIS

Intelesys has provided quality service to the District throughout their contract term. They have expanded their role to include management of certain District software and service licensing at no additional cost. Earlier this year, the Board approved a contract amendment to expand the scope and value of the agreement, allowing Intelesys to bid on additional IT projects, including a new phone system, network infrastructure upgrades, and server replacements. Due to project scheduling, implementation timelines have shifted into the upcoming fiscal year; therefore, estimated costs for these projects have been incorporated into this renewal.

FINANCIAL DATA		
Cost Associated with this action:	$272,657.09	
Current FY cost:	$0	
Future FY cost:	$272,657.09	
Is it covered in current year budget:	YES ☒	NO ☐
Budget adjustment needed:	YES ☐	NO ☒
If yes, year needed:	N/A	
All previous contracts including dates, amounts and board approvals are attached or have been made available.		
FUNDING SOURCES		
Source of funds:	Innovation & Technology	
Account/Project#	101-513-53320	
Current Account/Project balance	$859,696.00	
Balance remaining if approved:	N/A	

FISCAL IMPACT & STRATEGIC PLAN IMPLEMENTATION

The minimum fiscal impact is $125,987.40, which is the 12-month sum of their base monthly proposal. Should Intelesys bid on and win additional IT projects, the total fiscal impact could be an additional $121,882.68. After adding a 10% contingency, the maximum amount is $272,657.09. This action aligns with Strategic Plan Goal No. 6.1: Embrace technological solutions.

ATTACHMENTS

Attachment 1_Contract - Intelesys Communications Services_COMBINED

Agreement for Professional Services
Mission Springs Water District
66575 Second Street
Desert Hot Springs, CA 92240
Telephone 760-329-6448 – FAX 760-329-2482

For your protection, make sure that you read and understand all provisions before signing. The terms on pages 2 - 7 are incorporated in this document and will constitute a part of the agreement between the parties when signed.

TO: **Intelesys Communications Services**
3155 Sedona Court, Suite B
Ontario, CA 91764

DATE: July 1, 2026

PROJECT DIR#: N/A

TITLE: **Information Technology Management Services and Support**

The undersigned Consultant agrees to furnish the following:

All Work/Services per the attached Exhibit A – Proposal and Cost Proposal provided by Intelesys Communications Services and in accordance with Exhibit B – Term, Early Termination & Notice

Contract price $: Not to Exceed $247,870.08

Term: One (1) year from the effective date above

Instructions: Sign and return via email. Upon acceptance by Mission Springs Water District, (sometimes referred to herein as "District") a copy will be promptly returned to you. Insert the names of your authorized representative(s) below.

Accepted:	Consultant:
Mission Springs Water District	Intelesys Communications Services (Business Name)
By:	By:
Brian E. Macy, PE	Aaron Betts
Title General Manager	Title President
Other authorized representative(s):	Other authorized representative(s):
Kurt Kettenacker Innovation and Technology Manager	
Amanda Lucas Contracts Analyst	

Consultant agrees with the Mission Springs Water District that:

a. When the law establishes a professional standard of care for Consultant's services, to the fullest extent permitted by law, Consultant will immediately defend, indemnify and hold harmless Mission Springs Water District, its directors, officers, employees, and authorized volunteers against any and all liability from all claims and demands of all persons that arise out of, pertain to, or relate to the Consultant's negligence, recklessness, or willful misconduct in the performance (or actual or alleged non-performance) of the work under this agreement. Consultant shall defend itself against any and all liabilities, claims, losses, damages, and costs arising out of or alleged to arise out of Consultant's performance or non-performance of the work hereunder and shall not tender such claims to Mission Springs Water District nor to its directors, officers, employees, or authorized volunteers, for defense or indemnity.

b. Other than in the performance of professional services, to the fullest extent permitted by law, Consultant will immediately defend, indemnify and hold harmless Mission Springs Water District, its directors, officers, employees and authorized volunteers from all claims and demands of all persons arising out the performance of the work or furnishing of materials; including but not limited to, claims by the Consultant or Consultant's employees for damages to persons or property except for the sole negligence or willful misconduct or active negligence of Mission Springs Water District, its directors, officers, employees, or authorized volunteers.

c. By his/her signature hereunder, Consultant certifies that he/she is aware of the provisions of Section 3700 of the California Labor Code which requires every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and that Consultant will comply with such provisions before commencing the performance of the professional services under this agreement. Consultant and sub-consultants will keep workers' compensation insurance for their employees in effect during all work covered by this agreement.

d. Consultant will file with Mission Springs Water District, before beginning professional services, a certificate of insurance satisfactory to Mission Springs Water District evidencing professional liability coverage of not less than $1,000,000 per claim and $2,000,000 annual aggregate, that coverage shall not be cancelled except with notice to Mission Springs Water District. Coverage is to be placed with a carrier with an A.M. Best rating of no less than A: VII, or equivalent, or as otherwise approved by Mission Springs Water District. The retroactive date (if any) is to be no later than the effective date of this agreement. The Consultant shall maintain such coverage continuously for a period of at least five (5) years after the completion of the contract work. Consultant shall purchase a five-year extended reporting period i) if the retroactive date is advanced past the effective date of this Agreement; ii) if the policy is canceled or not renewed; or iii) if the policy is replaced by another claims-made policy with a retroactive date subsequent to the effective date of this Agreement. In the event that the Consultant employs other Consultants (sub-Consultants) as part of the work covered by this agreement, it shall be the Consultant's responsibility to require and confirm that each sub-Consultant meets the minimum insurance requirements specified above.

e. **Verification of Coverage** – Consultant shall furnish the District with certificates and amendatory endorsements, or copies of the applicable policy language affecting coverage required by this clause. All certificates and endorsements are to be received and approved by the District before work commences. However, failure to obtain the required documents prior to the work beginning shall not waive the Consultant's obligation to provide them. The District reserves the right to require complete, certified copies of all required insurance policies, including policy Declaration pages and Endorsement pages.

f. Consultant shall procure and maintain for the duration of the contract insurance against claims for injuries or death to persons or damages to property which may arise from or in connection with the performance of the work hereunder and the results of that work by the Consultant, his agents, representatives, employees, or sub-consultants. Consultant will file with Mission Springs Water District, before beginning professional services, certificates of insurance (Acord Form 25 or equivalent) satisfactory to Mission Springs Water District evidencing:

Coverage – Coverage shall be at least as broad as the following:

1. **Commercial General Liability (CGL)** - Insurance Services Office (ISO) Commercial General Liability Coverage (Occurrence Form CG 00 01) including products and completed operations, property

damage, bodily injury, personal and advertising injury with limit of at least coverage of not less than two million ($2,000,000) per occurrence or the full per occurrence limits of the policies available, whichever is greater. If a general aggregate limit applies, either the general aggregate limit shall apply separately to this project/location (coverage as broad as ISO CG 25 03, or ISO CG 25 04 endorsements provided to District), or the general aggregate limit shall be twice the required occurrence limit.

2. **Automobile Liability** - Insurance Services Office (ISO) Business Auto Coverage (Form CA 00 01), covering Symbol 1 (any auto) or if the Consultant has no owned autos, Symbol 8 (hired) and 9 (non-owned) with limit of one million dollars ($1,000,000) for bodily injury and property damage each accident.

3. **Workers' Compensation Insurance** - as required by the State of California, with Statutory Limits, and Employer's Liability Insurance with limit of no less than $1,000,000 per accident for bodily injury or disease. **Waiver of Subrogation:** The insurer(s) named above agree to waive all rights of subrogation against the Mission Springs Water District, its elected or appointed officers, officials, agents, authorized volunteers and employees for losses paid under the terms of this policy which arise from work performed by the Named Insured for the Agency; but this provision applies regardless of whether or not the Mission Springs Water District has received a waiver of subrogation from the insurer. Consultant is aware of the provisions of Section 3700 of the California Labor Code which requires every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and Consultant will comply with such provisions before commencing the performance of the professional services under this agreement. Consultant and sub-consultants will keep workers' compensation insurance for their employees in effect during all work covered by this agreement. Sole proprietors with no employees, acknowledge that they are not subject to the Workers' Compensation Act of the State of California and agree to complete a signed workers compensation exemption form.

4. **Cyber Liability Insurance** (Technology Professional Liability - Errors and Omissions), with limits of not less than $2,000,000 per occurrence or claim, and $2,000,000 aggregate or the full per occurrence limits of the policies available, whichever is greater. Coverage shall be sufficiently broad to respond to the duties and obligations as is undertaken by Consultant in this Agreement and shall include, but not be limited to, claims involving infringement of intellectual property, including but not limited to infringement of copyright, trademark, trade dress, invasion of privacy violations, information theft, damage to or destruction of electronic information, release of private information, alteration of electronic information, extortion and network security. The policy shall provide coverage for breach response costs as well as regulatory fines and penalties as well as credit monitoring expenses with limits sufficient to respond to these obligations.

If Claims Made Policies:

1. The Retroactive Date must be shown and must be before the date of the contract or the beginning of contract work.
2. Insurance must be maintained, and evidence of insurance must be provided for at least five (5) years after completion of the contract of work.
3. If coverage is canceled or non-renewed, and not replaced with another claims-made policy form with a Retroactive Date prior to the contract effective date, the Consultant must purchase "extended reporting" coverage for a minimum of five (5) years after completion of contract work.

If the Consultant maintains broader coverage and/or higher limits than the minimums shown above, the District requires and shall be entitled to the broader coverage and/or higher limits maintained by the Consultant. Any available insurance proceeds in excess of the specified minimum limits of insurance and coverage shall be available to the District.

Notice of Cancellation: Each insurance policy required above shall provide that coverage shall not be canceled, except with notice to the Mission Springs Water District.

Self-Insured Retentions - Self-insured retentions must be declared to and approved by the Mission Springs Water District. The Mission Springs Water District may require the Consultant to provide proof of

ability to pay losses and related investigations, claim administration, and defense expenses within the retention. The policy language shall provide, or be endorsed to provide, that the self-insured retention may be satisfied by either the named insured or Member Water Agency.

Required Provisions:

- **Additional Insured Status:** Mission Springs Water District, its directors, officers, employees, and authorized volunteers or using the language that states "as required by written contract." are to be given insured status (at least as broad as ISO Form CG 20 10 10 01), with respect to liability arising out of work or operations performed by or on behalf of the Consultant including materials, parts, or equipment furnished in connection with such work or operations.

- **Primary Coverage:** For any claims related to this project, the consultant's insurance coverage shall be primary at least as broad as ISO CG 20 01 04 13 as respects to the District, its directors, officers, employees, and authorized volunteers. Any insurance or self-insurance maintained by the District its directors, officers, employees, and authorized volunteers shall be in excess of the Consultant's insurance and shall not contribute with it.

- Consultant shall require and verify that all sub-consultants maintain insurance meeting all requirements stated herein, and Consultant shall ensure that Mission Springs Water District its directors, officers, employees, and authorized volunteers are an additional insured on Commercial General Liability Coverage.

- The coverage shall contain no special limitations on the scope of protection afforded to Mission Springs Water District, its directors, officers, employees, or authorized volunteers.

g. If any of the required coverages expire during the term of this agreement, the Consultant shall deliver the renewal certificate(s) to Mission Springs Water District at least ten (10) days prior to the expiration date.

h. Consultant shall not accept direction or orders from any person other than the General Manager or the person(s) whose name(s) is (are) inserted on Page 1 as "other Authorized Representative(s)."

i. Payment, unless otherwise specified on Page 1, is to be within thirty (30) days after acceptance by Mission Springs Water District.

j. Consultant hereby specifically represents and warrants to District that is possesses the qualifications and skills necessary to perform the services under this agreement in a competent and professional manner, without the advice or direction of District and that the services to be rendered pursuant to this agreement shall be performed in accordance with the standards customarily applicable to an experienced and competent professional rendering the same or similar services in the state of California. Consultant further represents and warrants that it possesses all required licenses necessary or applicable to the performance of the services under this agreement. Professional permits required by governmental authorities will be obtained at Consultant's expense, and Consultant will comply with applicable local, state, and federal regulations and statutes including but not limited to Cal/OSHA requirements.

k. Any change in the scope of the professional services to be done, method of performance, nature of materials or price thereof, or to any other matter materially affecting the performance or nature of the professional services will not be paid for or accepted unless such change, addition or deletion is approved in advance, in writing by a supplemental agreement executed by Mission Springs Water District. Consultant's "Authorized Representative(s)" has (have) the authority to execute such written change for Consultant.

l. Unless otherwise agreed upon in writing, all reports, documents, or other written material, including any documents, images, photographs, video files, or other media created or developed by Consultant as part of the services required hereunder ("Written Products") shall be considered to be "works made for hire", and all Written Products and any and all intellectual property rights arising from their creation, including, but not limited to, all copyrights and all other proprietary rights, shall be and remain the property of

Mission Springs Water District without restriction or limitation upon their use, duplication or dissemination by Mission Springs Water District, except as otherwise provided herein. The Consultant shall not obtain or attempt to obtain copyright protection as to any of the Written Products.

m. District shall hold all intellectual property rights to any data, materials, digital information, and Written Products stored and/or developed pursuant to this agreement. Consultant hereby assigns to Mission Springs Water District all ownership and any and all intellectual property rights to the data, materials, digital information and Written Products that are not otherwise vested in Mission Springs Water District pursuant to section above.

n. Consultant shall not disclose, publish, or authorize others to disclose or publish, design data, drawings, specifications, reports, or other information pertaining to the projects assigned to the Consultant by the Mission Springs Water District or other information to which the Consultant has had access during the term of this Agreement without the prior written approval of an Authorized Representative during the term of this Agreement. Consultant's covenant under this section shall survive the termination of this Agreement.

o. Consultant shall maintain complete and accurate records with respect to sales, costs, expenses, receipts, and other such information required by the Mission Springs Water District or the Authorized Representative. The Consultant shall maintain adequate records on services provided in sufficient detail to permit an evaluation of service. All such records shall be maintained in accordance with generally accepted accounting principles and shall be clearly identified and readily accessible. At all times during regular business hours, Consultant shall provide access to such books and records to the Authorized Representative or his or her designees and shall give the Authorized Representative or his or her designees the right to examine and audit such books and records and to make transcripts as necessary, and shall allow inspection of all work, data, documents, proceedings, and activities related to this Agreement.

p. This Agreement is personal to the Consultant. Any attempt to assign or subcontract any right or obligation hereunder by the Consultant shall be void unless approved in writing in advance by the Authorized Representative. Consultant's services pursuant to this Agreement shall be provided by the representative or directly under the supervision of the representative and Consultant shall not assign another to supervise the Consultant's performance of this Agreement without the prior written approval of the Mission Springs Water District, by and through the Authorized Representative.

q. Consultant shall not maintain, commit, or permit the maintenance or commission of any nuisance in connection with the performance of services under this Agreement.

r. Consultant agrees to be familiar with and comply with all applicable federal, state, and local conflict of Interest laws, including, but not limited to, the Political Reform Act (California Government Code Sections 81000, et seq.) and California Government Code Section 1090. During the term of this Agreement, Consultant shall retain the right to perform similar services for other clients, but Consultant and its officers, employees, associates, and subconsultants shall not, without the prior written approval of the Authorized Representative, perform work for another person or entity for whom Consultant is not currently performing work that would require Consultant or one of its officers, employees, associates or subconsultants to abstain from a decision under this Agreement pursuant to a conflict-of-interest statute.

s. A waiver by the Mission Springs Water District of any breach of any term, covenant, or condition contained in this Agreement shall not be deemed to be a waiver of any subsequent breach of the same or any other term, covenant, or condition contained in this Agreement whether of the same or different character.

t. The Consultant shall commence, carry on, and complete all required tasks with all practicable dispatch, in a sound, economical, and efficient manner in accordance with all applicable laws and generally accepted industry standards.

u. No Third-Party Beneficiaries. The Mission Springs Water District shall not be obligated or liable under this Agreement to any party other than the Consultant.

v. In no event shall the making by the Mission Springs Water District of any payment to the Consultant constitute or be construed as a waiver by the Mission Springs Water District of any breach of covenant, or any default which may then exist, on the part of the Consultant, and the making of any such payment by the Mission Springs Water District while any such breach or default shall exist shall in no way impair or prejudice any right or remedy available to the Mission Springs Water District with regard to such breach or default.

w. If any legal action is necessary to enforce any provision of this Agreement or for damages by reason of an alleged breach of any provisions of this Agreement, the prevailing Party shall be entitled to receive from the losing Party all costs and expenses in such amount as the courts may determine to be reasonable. In awarding the cost of litigation, the court shall not be bound by any court fee schedule, but shall, if it is in the interest of justice to do so, award the full amount of costs, expenses, and attorneys' and experts' fees paid or incurred in good faith.

x. In the performance of the work required by this Agreement, Consultant shall abide by and conform with and to any and all applicable laws of the United States and the State of California, and with the local County and Municipal Code, ordinances, regulations and policies.

y. If any part, term, or provision of this Agreement shall be held illegal, unenforceable, or in conflict with any law of a federal, state, or local government having jurisdiction over this Agreement, the validity of the remaining portions or provisions shall not be affected by such holding.

z. The terms of this Agreement shall be interpreted according to the laws of the State of California. Should litigation occur, venue shall be the Superior Court of Riverside County, California.

aa. This Agreement represents the entire Agreement between the Mission Springs Water District and Consultant with respect to the subject matter hereto and supersedes all prior oral or written negotiations, representations, or agreements. No verbal agreement or implied covenant shall be held to vary the provisions of this Agreement. This Agreement shall bind and inure to the benefit of the parties to this Agreement and any subsequent successors and assigns. In the event of any inconsistency between the provisions of this Agreement and Consultant's proposal or Quote, and Exhibits hereto, the provisions of this Agreement shall control.

bb. Precedence of Exhibits. All documents referenced as exhibits in this Agreement are hereby incorporated in this Agreement. In the event of any material discrepancy between the express provisions of this Agreement and the provisions of any document incorporated herein by reference, the provisions of this Agreement shall prevail.

cc. Consultant will act hereunder as an independent consultant. This agreement shall not and is not intended to constitute Consultant as an agent, servant, or employee of the Mission Springs Water District and shall not and is not intended to create the relationship of partnership, joint venture or association between the Mission Springs Water District and Consultant.

dd. Each of the signatories herein hereby represents that he or she has the authority to execute the Agreement on behalf of his or her contracting party.

ee. In the event the Consultant performs additional or different services than those described herein without the prior written approval of the Contract Manager, Consultant shall not be compensated for such services. Consultant expressly waives any right to be compensated for services and materials not covered by the scope of this Agreement or authorized by the District in writing.

ff. Consultant shall promptly advise the Contract Manager as soon as reasonably practicable upon gaining knowledge of a condition, event or accumulation of events which may affect the scope and/or cost of Services. All proposed changes, modifications, deletions and/or requests for additional services shall be reduced to writing for review and approval by the District.

gg. Consultant shall perform all services in accordance with the terms and conditions of this agreement and the proposal. In the event that the terms of the proposal conflict with the terms of this agreement or contain additional terms that purport to bind the District, the terms of this agreement shall govern and said additional or conflicting terms shall be of no force or effect.

EXHIBIT A

REQUEST FOR QUALIFICATIONS

INFORMATION TECHNOLOGY MANAGEMENT SERVICES AND SUPPORT

Date: **November 1, 2023**

Contact: **Aaron Betts, Operations Officer**
888-546-8353 ext. 1110
aaronb@it4ps.com

Intelesys | Ontario, CA | (888) 546-8353 | www.it4ps.com

INTELESYS
IT for Public Sector

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INTELESYS
IT for Public Sector

3155-B Sedona Court
Ontario, California 91764
888.546.8353 | www.it4ps.com

November 11, 2023

Mr. Kurt Kettenacker,

Thank you for the opportunity to present our organization for the Mission Springs Water District's Information Technology Management Services and Support RFP. **For nearly 3 decades**, Intelesys has been providing best-in-class technology services**.** We specialize in public sector solutions, dedicating our focus toward government and education for over 20 years. We understand the nuances that make public sector organizations like the Mission Springs Water District unique, and have built our company around delivering a level of service that the public sector requires.

I had the pleasure of serving as the City of San Marino's (One of our client's) IT Director for 14 months as an interim while they sought a replacement. This valuable experience allowed me to experience the aspects of our client base in a way not available to me in the past. I was able to complete two budget cycles, attend monthly executive team meetings, and present to council in open public meetings for requested budgetary needs. This engagement changed the way our company approached and managed our clients in significant ways.

Intelesys places a high degree of attention on project management and environmental discovery before a single change is made. Intelesys intends to provide 100% of the services listed in the RFP. We do not utilize any sub-contractors for our services. We acknowledge receipt of all RFP addenda. Pricing in the RFP will remain valid for no less than 90 days from the date of submittal.

Intelesys does not have any relation or conflict of interest with any district staff, council, nor district resource, past or present. We appreciate the opportunity to present our organization to the Mission Springs Water District and welcome a one-on-one conversation on how we can help assist in helping guide your network resources and future direction. Our job is to serve.

Respectfully,

Rick Balzer
President
909.972.0404 | RickB@it4ps.com

*Your primary contact***:**
Name: **Aaron Betts, Operations Manager**
Address: **3155 Sedona Court, Ste. B, Ontario, CA 91764**
Direct: (909) 802-7338
Fax: (909) 305-2100
Email: AaronB@IT4PS.com

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4.2.2 Executive Summary

Thank you for allowing Intelesys the opportunity to present our proposal recommendations on the Mission Springs Water District's RFP for managed IT services. As a top provider of solutions and management for local government in Southern California for the last 20 years, Intelesys has thorough knowledge of the unique municipal needs in technology services.



Our firm has consistently engaged in municipal projects exceeding over $1M in scope and multiple years in duration. With 20 employees, Intelesys has staff available for support 24x7x365 to assist in emergency situations with quick local dispatch when needed. All of our work is completed by company employees, we do not subcontract out any labor.

Intelesys has made a strategic decision to specialize exclusively in the municipal and government market space to build a level of expertise that can be shared across our client base. This approach allows us to share strategies, be aware of industry impacting issues, and to educate ourselves on the software commonly utilized within the industry. We are one of the very few select managed service providers that attend the annual Municipal Information Systems Association of California (MISAC) conference where information-technology directors gather to share ideas and learn about new challenges facing the municipal industry. As a platinum sponsor that has been involved in this organization for 15 years, Intelesys utilizes this peer group as a key component of continued education to support our clients.

Our best practices approach start with benchmarking the current environment and developing a plan in conjunction with our client to identify key needs and any critical areas that should be addressed along with a quarterly system measuring results and improvement. As part of our commitment to best practices every staff member of Intelesys completes the FBI's Criminal Justice Information Services Division, or CJIS "Best Practice" training. This training is renewed annually and ensures our staff follow the best practice methodology as defined by the FBI and DOJ.

Intelesys has been providing technology services to federal and state agencies, and municipalities for over 20 years since our start in 1996. We have made a strategic decision to focus primarily on the

California market. This focus has allowed Intelesys to provide solutions that specifically address the needs and concerns of the public sector while maintaining the strict compliance and security required in the industry. Our local approach varies greatly from many of our competitors who have been consolidated into firms headquartered outside the region. By knowing our local market, the local players, and having the ability to reach our staff on site as needed has led to our exceptional 98% customer satisfaction rating over the last 20 quarters.

Below is a list of projects similar in scope to the requested work asked for in the RFP. All clients listed below are located within Southern California.

- **City of San Marino – Network Security Audit and Network Management**.
  In 2018, Intelesys was brought in to assess the City's network in preparation for the installation of a Mitel VoIP phone system. During the assessment, Intelesys discovered various networking and domain best practices that were not being adhered to. In presenting the findings, Intelesys was contracted to shore up the network vulnerabilities as well as take on the full management of the network. We are currently going into year 5 of a 3 year (with 2 extensions) contract. David Garcia and Charles Henigan are the primary senior engineers with Ryan Hurst and David Joyce providing onsite support. The initial projects investigation was for $10,600. We also refreshed their network switches for $15,259, and we maintain a $15,000 per month which includes all of the Onsite, Remote network support, Network Tools, Backup utilities.

- **City of Big Bear Lake – Managed Services – network and server rebuild.**
  A client since 2007, the City of Big Bear Lake engaged Intelesys for full Managed Services, in 2019. Intelesys has fully redesigned and replaced their entire network hardware infrastructure including new firewalls at each location. Intelesys manages the day to day IT needs for Big Bear both onsite and remotely. Charles Henigan, Ryan Hurst, and James Hunt have played integral parts in maintaining both their onsite and remote support needs. Intelesys, as part of the solution, implemented a cloud DR Backup solution which enables the District to fully function from anywhere with Internet should City Hall become unavailable. Their current monthly contract is $10,428.

- **City of San Dimas – Network Re-design and Refresh Project**.
  In 2019, the City of San Dimas engaged Intelesys to replace the network switches and re-design their network IP structure. David Garcia was part of the key personnel that assisted in designing and implementing the new IP structure, VLANs, and routing for a Core Switching network design. The project included sourcing, programming, and installing all new network switches. Intelesys was able to stand up the new network alongside the existing network to allow for testing and to prevent any interruption to the City employee's productivity. The project budget was $59,394 and was complete on time and within budget.

- **Laborers Training School – Network Re-design, Managed Network Services**.
  In 2017, Laborers Training School engaged Intelesys to re-design their entire network infrastructure. David Garcia was part of the key personnel that assisted in designing and implementing the new IP structure, VLANs, and routing for a Core Switching network design. The project included sourcing, programming, and installing all new network switches, and firewalls. The project budget was $62,541 and was complete on time and within budget. Then in 2020, Laborers was hit with a network breach and engaged Intelesys to monitor, manage, and maintain their network on an ongoing basis. Charles Henigan has been instrumental in identifying network vulnerabilities, and locking down the network security to conform to the NIST standards. They have not had a network event since Intelesys took over. Their monthly contract is $7,374.

Every support issue is tracked and documented in our ticketing system. All work performed and time invested in each ticket is detailed and audited for accuracy. Clients have access to managing and reviewing their tickets through our secure Client Portal.



Our service team maintains a close pulse on all active tickets, monitoring and acting in real-time to adjust allocated resources, manage to priorities, and maintain our SLA commitments. We utilize live dashboards throughout our facility to enable a constant awareness of open tickets. Whenever an SLA is within a 10% potential threshold of missing a committed target, the request turns red and is flagged at the management level to ensure proper resources are allocated to complete the tasks required.

Intelesys believes that open communication and excellent service are the top two essential items for a successful relationship with any of our clients. Intelesys maintains a Net Promoter Score in the high 80's which puts us in the category of World Class Service. Listening to the needs of our clients and looking for the root of a customer's issue, not just the stated problem is a primary focus for our service department and our approach to our day to day engagements with our clients. All tickets are monitored and reported on and escalated when issues are taking an unexpected amount of time to resolve. Our management team is always available for contact and want to hear about our service when good and when we fall short. Constant adjustment is something we focus on but strive for excellence. At the close of all service orders, a blind survey is sent out asking the customer how our service department did. This is critical in tracking the true customer happiness across all departments.

One of the ways Intelesys has been able to maintain such a high customer service rating is by providing proactive support that addresses many potential issues before they impact the end-user of the client network. Through 24/7 proactive monitoring of alerts, Intelesys can see issues and trends that can indicate a potential service impact may be imminent. We also monitor trends on support tickets to identify any recurring problems that happen within the organization which can indicate a problem within the network or may need for focused end-user training.

Through detailed management of service requests, trending of technical issues, and our continued education with entities like MISAC, our team combines these factors into a quarterly report for the account team to find ways to improve end-user experience within the district. Our goal is to become an extension of your staff and provide a level of support that exceeds the organization's. Our team takes great pride in workmanship and is always looking for ways to improve both our internal processes and the effectiveness in which district staff can utilize technology to improve their overall job function.

Over the years Intelesys has developed a strong team mentality when it comes to providing outsourced IT support and management. One critical component is to ensure there are no single points of failure to your organization. This means all issues and projects are reviewed and understood by your account team. There is no member of your account team that does not have a backup in place that is properly involved in your account to take over should absence occur, and our team is focused on learning the specifics of your service needs so we can customize your experience in a way that benefits all district staff.

The majority of our staff have a 10+ year tenure with Intelesys, when new staff are brought on board they are required to go through a 9 to 12 months apprenticeship phase where all of their work monitored and shadowed by their team mentor. Each staff member is required to devote 20% to 30% of their time to educating themselves on products and processes and improving their technical ability to bring the best possible service to our clients.

Intelesys utilizes the industry standard platform IT Glue to document all of our clients' assets, processes, versioning, and general documentation. IT glue provides a central repository for all client information, backed with encrypted security to protect the integrity of the data.

During the course of an agreement there will be instances where projects and/or additions will be needed to the network such as PCs, Software, Servers, etc. Typically, the labor that would be created from these additions would be a billable charge in the form of a project quote signed by the IT Manager before the work or materials have been engaged or purchased. If Intelesys is brought into support 3rd party installations, our quote includes up to four hours of coordination time to help assist in their deployment. If a more detailed scope of work is required on our part, it will be addressed on a project by project basis.



Our attention to detail has been recognized on a national scale by the California State University system and many technology vendors including TRA, NEC, Mitel, HP, and Dell. Intelesys was proud to be named "Service Entrepreneur of the Year" by the California State University system coveted Spirit of the Entrepreneur council, at an annual event devoted to recognizing excellence in the community.

Over the course of the contract, Intelesys will meet with the IT Manager – we suggest quarterly but will take direction of the Manager – to review the account, reports, tickets, etc. to ensure both Intelesys and the Mission Springs Water District are moving in the same direction and that the users are satisfied with our support. If corrections are needed, we want to head those off as quickly as possible so that the working relationship between the District and Intelesys is the best is can be.

Mission Springs Water District

Released: September 2023	INFORMATION TECHNOLOGY SERVICES AND SUPPORT RFQ Response Form PROPOSER PROFILE	PROPOSER'S Name: Intelsys

HOME OFFICE/HEADQUARTERS

Legal Company Name:	ICS Intelesys, Inc.						
Company Reference:	HQ						
Address: Street #/Name:	3155 Sedona Court						
Address: Suite:	#B						
Address: City, State, Zip	Ontario, CA, 91764						
Officers/Owners:	**Title(s):**	**Office Phone**		**Email**			**Cell Phone**
Rick Balzer	President	909-305-1500		rickb@it4ps.com			
Type: S-Corp	**State of Registration:**	CA	**Year founded:**	1969	**Founded by:** Rick Balzer		

LOCAL BRANCH OFFICE FOR THIS PROJECT

Branch Name:				
Address: Street #/Name:				
Address: Suite:				
Address: City, State, Zip				
Year established:	**Region(s) served:**			
Contacts (for this project):	**Title(s):**	**Office Phone**	**Email**	**Cell Phone**

INSTALLED USER BASE

	Corporate	Local Branch (if different)
Total		
Similar Size		

Mission Springs Water District

Released: September 2023	INFORMATION TECHNOLOGY SERVICES AND SUPPORT RFQ Response Form PROPOSER PROFILE			PROPOSER'S Name: Intelsys
REFERENCES*				
Reference Agency Name	**Location (City & State)**	**Contact person - Title**	**Phone/Email**	**Product(s)/Services**
City of Desert Hot Springs	Desert Hot Springs, CA	Marius Stuler	(760) 329-6411 ext. 254 / mstuler@cityofdhs.org	Built Core Network and VLAN
City of Big Bear Lake	Big Bear, CA	Kelly Ent	(909) 752-2858 / kent@citybigbearlake.com	Full Managed Services
City of San Marino	San Marino, CA	Paul Chung	(626) 300-0708 / pchung@cityofsanmarino.org	Full Managed Services
RJN Investigations	Tustin, CA	Fred Martino	(949) 678-0168 / fredm@rjninv.com	Full Managed Services

* These should be references as similar in size and organization to the DISTRICT as possible with products/services similar to those proposed herein.

Mission Springs Water District

Released: September 2023	INFORMATION TECHNOLOGY SERVICES AND SUPPORT RFQ Response Form PROPOSER PROFILE			PROPOSER'S Name: Intelsys

SUPPORT TEAM

Role	Name, Title	Phone/Email	City/State	Qualifications/Experience	
Manager/Officer	Aaron Betts, COO	909-802-7338	Ontario, CA		
				Years with firm	11
				Resume attached	Yes
Site Lead	David Garcia	909-305-1500	Ontario, CA		
				Years with firm	20
				Resume attached	Yes
Site Technician	James Hunt	909-305-1500	Ontario, CA		
				Years with firm	1
				Resume attached	Yes
Project Manager	Jessye Gentry	909-305-1500	Ontario, CA		
				Years with firm	2
				Resume attached	Yes
Security Consultant	Charles Hennigan	909-305-1500	Ontario, CA		
				Years with firm	4
				Resume attached	Yes
Trainer	Matthew Saenz	909-305-1500	Ontario, CA		
				Years with firm	20+
				Resume attached	Yes
Other(s)					
				Years with firm	
				Resume attached	
Corporate level resource people available to local support staff.					
				Years with firm	
				Resume attached	

Attach resumes or additional pages if necessary. Although these may not be the actual people to participate in the project, they must be representative in terms of training and experience and knowledge of the District's environment for those who will be involved.

Managed Services Proposal

The Information Technology Services Solution by Intelesys offers a 360-degree answer to your organization's IT needs. Our diverse engineer pool delivers specialists in every IT area, focused on technologies used by local municipalities.

CLIENT	Mission Springs Water District	**BILLING ADDRESS**	Mission Springs Water District 66575 2nd St, Desert Hot Springs, CA 92240
AGREEMENT TERM	6 months with (2) 12 month renew options	**Network Hardware**	14 laptops (Microsoft Surface, Lenovo, HP) 1 VM (used by Unidata developer) 42 desktops 20 iPads 49 District smartphones (iOS/Android) 2 Physical Servers with 10 Images
Switching and Routing	3 Layer-3 Fortinet Switches 2 Palo Alto firewalls 14 Layer-2 Ubiquity Switches 8 Ubiquity Wireless Access Points 1 Ubiquity Building Bridge pair 1 Ubiquity AirFiber pair 3 Synology NAS units 1 Ubiquity UniFi Protect NVR 26 RingCentral Polycom Desk Phones		

Managed Services Quote

Monthly Managed Services Agreement	
Onsite technician 2 Days/week	
Reimbursable expenses	Included
Subtotal	$ 10,200
Government discount	$ (2,550)
Total Monthly Cost	**$ 7,650**

Included Services:

Full-Service help desk

- Desktop Support Technicians will provide desktop support for all problems and project calls to diagnose, upgrade, install, fix, adjust, and general problem resolution
- Staffed with Level 1, 2, and 3 CJIS Certified engineers
- Onsite escalation provided as needed

Desktop hardware and software maintenance

- Review of all process logs for normal execution and performance
- Preparation of reports and outputs for distribution on next regular workday
- Review of security logs and for unusual activity
- Keeping and maintaining records on hardware assets: Acquisition date, Warranty date, maintenance agreement location, maintenance and repair contact number
- Patch management

Network and Systems Support

- Network is defined to include all District switches, hubs, routers, bridges, repeaters, firewalls, servers, AP's etc.
- Maintenance of network cabling within District facilities including patch management
- Network and network device performance monitoring, diagnostics, and tuning
- Network and network device configuration and version updates to keep within two versions of current
- Network and network device configuration management and record keeping
- Network, network device and server capacity monitoring and planning
- Firewall monitoring for intrusion attempts, attacks, viruses, etc.
- Firewall configuration and version updates

- Server OS configuration and version updates to keep within two versions of current

Documentation

- Monthly report on SLA performance and ticket volume
- Network hardware inventory for all managed devices with release dates, patch status and system life report
- Network device configurations and network layout map

District to provide (Intelesys to bid, procure, and implement if not currently in place

- Enterprise Anti-Virus solution – Intelesys to bid top three government products utilizing government purchase rates and work with client to select appropriate solution if one does not exist
- Enterprise Email filter - Intelesys to bid top three government products utilizing government purchase rates and work with client to select appropriate solution if one does not exist
- Enterprise back-up solution - Intelesys to design and bid top three government products utilizing government purchase rates and work with client to select appropriate solution if one does not exist
- Enterprise DR solution - Intelesys to design and bid top three government products utilizing government purchase rates and work with client to select appropriate solution if one does not exist
- Active support agreements required for major network hardware and infrastructure

Deliverables

- Deliver expected annual expense forecast for district budget process
- Perform annual network assessment with full reporting
- Track system support status and extended warranty cost
- IT Satisfaction Survey – Statistical and end user measurement
- Performa annual CJIS audit to confirm network compliance

IntelesysOne White Glove Onboarding: **waived**

- 300-point network audit and assessment
- Asset tag all devices and document hardware
- Inventory active software applications and licenses
- In addition to standard Support Onboarding services, Onboarding shall also include verification of backup services

Additional user costs

- New end user (Defined as an increase in user count)
  - Setup .....$ 140
  - Monthly Charge .....$ 90
- New device (Defined as an increase in device count)
  - Setup .....$ 85
  - Monthly Charge .....$ 45
- Additional Considerations / Possible charges
  - Anti-virus, email filter, internet filter, Office 365, etc. license cost currently paid for by district will increase
  - Additional equipment may be needed to support more users for example a data switch
  - Devices reference added desktops, laptops, and other end user computing devices
  - Servers and data switches will require a separate quote to add based on function and scope

TOTAL MONTHLY RECURRING: $7,650 **TOTAL ONE-TIME: waived**

Exhibit D: Consultant Questionnaire

1. How many years of experience does your organization have in the setup, administration, and maintenance of corporate networks?
    a. **Intelesys has been providing setup of corporate networks for over 10 years. Intelesys has been providing fully managed services in the Municipal vertical for over 5 years.**
2. Does anyone within your organization with access to our data located outside the USA? If so, where?
    a. **No, all Intelesys employees are located in Southern California.**
3. As you will have some form of remote access to our data, network, and systems, describe how unauthorized access will be prevented and monitored.
    a. **Intelesys uses a securely encrypted system for remote management. Each technician at Intelesys has their own login and all logins require a Two Factor Authentication access method. The system is also 256bit encrypted.**
4. Have you performed background screening on all administrators within your organization that will have access to our data?
    a. **Yes. All Intelesys employees have received background screening as Intelesys supports clients with Fire and PD. Everyone is CJIS certified.**
5. Please provide a list of relevant active certifications/licenses held by your organization.
    a. **MCSE, CCNA, Security+, Mitel Certified Installer, Ring Central Certified Installer, Hpe,**
6. How can we retrieve our data, credentials, documentation, or other information if our contract with you is terminated?
    a. **We store all client information in a digital repository called IT Glue. If a client were to leave, we can export the client data to give to the Water District or to the company who would assume control of the account.**
7. Which RMM system(s) do you use?
    a. **Intelesys uses Screen Connect by Connectwise for their RMM tool.**
8. Can the MSWD IT Manager be granted an account in your RMM system that will allow remote access, monitoring, and creating reports?
    a. **Yes. Intelesys can include an account in the RMM system for the IT Manager as part of their solution.**

Exhibit E: Disclosure Questionnaire & Qualification Statement

Consultant Name:

1. ORGANIZATION

1.1. How many years has your organization been in business as a Consultant? **27 Years**

1.2. How many years has your organization been in business under its present name? 27 **Years**

1.2.1. Under what other names has your organization operated? **None**

1.3. If your organization is a corporation, answer the following:

1.3.1. Date of incorporation: **6-1-1996**

1.3.2. State of incorporation: **CA**

1.3.3. Corporate ID number: **1970179**

1.3.4. President's name: **Richard Balzer**

1.3.5. Agent for Service of Process: **Richard Balzer**

1.4. If your organization is a partnership, answer the following: **N/A**

1.4.1. Date of organization:

1.4.2. Type of partnership (if applicable):

1.4.3. Name(s) of general partner(s):

1.5. If your organization is individually owned, answer the following: **N/A**

1.5.1. Date of organization:

1.5.2. Name of owner:

1.6. If the form of your organization is other than those listed above, describe it and name the principals:

2. LICENSING

2.1. List jurisdictions and trade categories in which your organization is legally qualified to do business and indicate registration or license numbers, if applicable. **IT services, C-7 low voltage contractor**

2.2. List any other certifications held by your organization, and the name under which they are held. **CJIS**

3. EXPERIENCE

3.1. List the categories of work that your organization normally performs with its own forces.
Network Cabling, IT Project Services, Managed IT Services, Telephony Solutions, Carrier Management, Networking Solutions, WiFi Solutions, Cyber Security Services, Networking Assessments, IT Cloud Solutions,

3.2. Has your organization, under its current name or any previous names, ever failed to complete any work/contract awarded to it? (If Yes, please explain)
NO

4. CLAIMS AND LAWSUITS

4.1. Are there any judgments, lawsuits, administrative proceedings, claims, arbitration proceedings, suits pending or outstanding, or other exposures against your organization or any its officers? (*If Yes, please describe*)
NO

4.2. Has your organization filed any lawsuits or requested arbitration with regard to any of its contracts within the last five (5) years? (*If Yes, please explain*)
NO

4.3. Has the Consultant, any officer of the Consultant, or any employee of the Consultant who has proprietary interest in the Consultant, ever been disqualified, removed, or otherwise prevented from bidding on, or completing a federal, state, or local government project because of a violation of law or safety regulation? (*If Yes, please explain*).

NO

4.4 Firm Qualifications

We are proud of the positive reputation we have built in the public sector for IT management and solutions. Intelesys has been supporting the Public Sector for fully managed services as well as project-based solutions for over 6 years. We have included 5 references in the Firm Profile Worksheet included as Exhibit C in the RFP. In the following pages, we highlight a few of these projects similar in scope to the Missions Springs Water District.

CLIENT HIGHLIGHT: City of San Marino

Paul Chung, pchung@cityofsanmarino.org, 626-300-0700

Contract Amount: $1,144,000, $13,415/month*

Period of Performance: 6/2018 to present

Their Solution

- Outsourced IT Director Position
- IT Procurement and PM for all Departments
- Fully Managed Network Solutions including monitoring, back-up and continuity, and budgeting
- Citywide Desktop Support
- Managed VoIP Solution
- Full Vendor Management including FirstNet, PD, and FD Vendors
- Client since June 2018

Key Areas of Impact

- **Network Documentation** Intelesys performed a detailed network assessment and audit tracking all hardware, support dates, software versions, and contracts. This allowed us to deliver a solid budget forecast on what expenses needed to occur in the upcoming fiscal years giving council a factual basis for allocating funds.
- **CJIS Compliance** Identified and corrected policies and procedures that did not follow federally developed standards for network security. Developed new written policies to ensure ongoing adherence to CJIS standards.
- **IT Director Role** Intelesys has been retained as an Interim IT Director on the city's executive team to guide the direction of all technology acquisitions and decisions. This includes developing policies and procedures for proper network management and staff access, producing the annual IT budget for the city council, interfacing with city IT vendors, and developing solutions for all city technology needs.

CLIENT HIGHLIGHT: City of Big Bear Lake

Kelly Ent, kent@citybigbearlake.com, 909-752-2858

Contract Amount: $618,000, $11,473/month*

Period of Performance: 2/2011 to present

Their Solution

- Intelesys awarded the City's RFP for Managed Services
- IT Procurement and PM for all Departments
- Fully Managed Network Solutions including monitoring, back-up and continuity, and budgeting
- Citywide Desktop Support since 2019
- Managed VoIP Solution since 2007

Key Features

- Intelesys established best practice design for Network
- Work with main city contacts to create a master project plan including Office 365 migration, Network and Firewall refresh, and PC upgrades
- Specific system improvements made over the next 6 months including
    - Corrected security issues based on network access
    - Established a secure remote access platform allowing for IP Phones to be taken home for the COVID-19 Stay at Home order
    - Provided Remote Desktop Services to enable a more controlled remote environment that includes Dual Factor Authentication
    - Migrated critical city applications to a new Virtual Host for increased stability and redundancy
    - Cataloged all software in use by city, identifying support status, ongoing support contract costs, and license compliance
    - Created a centralized back-up and redundancy operation plan for the city that includes secure offsite cloud storage and Disaster Recovery options

CLIENT HIGHLIGHT: RJN Investigations

Fred Martino, fredm@rjninv.com, (949) 678-0168

Contract Amount: $617,077, $10,284/month*

Period of Performance: 2/2011 to present

Their Solution

- 2 Sites with remote investigators
- 60+ TB of video and evidence storage
- Virtualized Network Design
- Fully redundant network for continuity
- Full desktop support for users since 2017

Key Features

- Built a WAN platform to fully replicate all network operation and function to a geographically redundant site
- Structure a data store for retention of terabytes of data for quick retrieval and access by investigators when needed for discovery and court requirements
- Created a blended cloud / premise strategy for handling of large quantities of data, complete with a disaster planning platform
- Manage end users' tickets and SLA's for maximum end user efficiency

* Contract amounts given as total spent / monthly managed services amount

New Engagements this Year



Project Engagements

Network Domain AD Upgrade
Microsoft 365 Migration
Azure AD Connector Setup
Network IP & VLAN Redesign
Enhanced & NGA 911 Deployment
PD Watchguard Cloud Migration

Hosted Phone System Consulting
Wi-Fi Design & Implementation
Wireless Heatmaps
Firewall Replacement
Virtual Server Migration
File Server Migration

Hosted Phone System Migration—RingCentral, GoTo, Teams

1291

5.1 Transition

INTELESYS' WHITE GLOVE ONBOARDING

Intelesys' White Glove Onboarding process was designed to deliver an incredibly smooth transition from your existing IT support to our team. As we begin our engagement with the Mission Springs Water District, **we will adjust the following example to meet the 18 Day Transition Requirement listed in the RFP.** Intelesys will begin the relationship with a kick-off meeting that includes the IT Manager, Project Manager, Account Manager, and Senior Engineer. During this meeting we will identify any procedures that Intelesys needs to be aware of in order to successfully integrate with the District's culture and way of doing business. At Intelesys, our goal is to be an extension of the IT department, not a barrier for the end user. We will integrate with the District's processes and procedures and utilize District practices whenever possible.

Our On-boarding Team will include the staff listed in this section of the RFP response. This includes a Project Manager, Account Manager, Senior IT Engineer, and support level Technician. During the kick-off meeting, we will identify the actual timeline and key milestones with the IT Manager and District staff.

The following is an example of how we have on-boarded similar clients over period of 3-4 weeks:

1. **Week 1 – Client Setup & Provisioning**

    a. Full documentation of the environment
        - Review all existing documentation provided by Mission Springs Water District and the previous IT provider
        - Conduct 500-point Onboarding Assessment, reviewing and documenting all aspects of Mission Springs Water District's network environment, processes, third-party vendors, and more

    b. Conduct initial user enrollment
        - Collect pertinent data on all managed users within Mission Springs Water District

- Add user data to Intelesys' internal systems for managing communication, requests from users, and approval verifications

c. Provision client services
    - Create all necessary accounts in Intelesys' monitoring tools, documentation and inventory platforms, DNS/web hosting, antivirus, web protection, and email protection
    - Implement Intelesys AD user account on the District's network

d. Onsite deployment of agents and asset tags
    - Affix management asset tags to all devices and record with client inventory
    - Generate tag file on computers
    - Install management and support agents

e. Conduct onsite End-User introductions.
    - Per the District's preference, this can be accomplished as brief presentations to users in group settings, 1-on-1 introductions by the Intelesys team at end-users' desks, or a combination

f. Setup weekly check-in with IT Manager to provide progress on week's activities, identify any potential concerns and create an action plan to address such concerns

g. Review with IT Manager the preferred Change Control process for the District. Typically, Intelesys will setup guidelines per the District's request of the type of changes that end users can initiate, changes that need to be approved by their head of departments, and changes that need the IT Manager's (or District Manager's) approval. In these instances, we will inform the end user that we need to obtain approval for the request and contact the appropriate person for the escalation

2. Week 2 – Analysis & Implementation

a. Implement Intelesys credential standards and document accordingly
    - Change passwords for router, switches, and other discovered devices
    - Change password for client's AD admin user account

- Push local management credentials to all workstations

b. Generate a Network Health Snapshot
    - Run initial onboarding Health Reports as a baseline for future comparison and measurement
    - Prepare report of any initial observations and recommendations

c. Go-Live Readiness review
    - Mission Springs Water District and Intelesys meet to review initial findings during onboarding and certify that both parties are ready for Intelesys to assume support and management
    - Verify monitoring/patching readiness and enable

3. Week 3 – GO LIVE & Start of Regular Management

a. Communication with users
    - Together, District leadership and Intelesys send an email to all staff reminding them of the coming transition, reiterating any new processes for obtaining support (This should be sent 2-3 days prior to the transition.)

b. Provide onsite support for Go Live
    - Engineers onsite at key locations

c. First week follow-up meeting with Intelesys and Mission Springs Water District
    - Review Go-Live success and any notes
    - Schedule initial District Technology Planning meeting – a regularly recurring meeting to ensure Intelesys and Mission Springs Water District remain aligned

4. Week 4 – Initial Distirct Technology Planning Meeting & Onboarding Review

a. Review initial ticket submissions and end user adoption
b. Conduct District Technology Planning meeting
c. Address any punch list items generated throughout the onboarding process

INTELESYS
IT for Public Sector

Management Team



Rick Balzer

President

Responsibilities: Management of projects, budgets and innovation

Mr. Balzer, who joined the company in 1994, is a licensed C-7 low voltage contractor in California and holds various technical certifications in PBX, VoIP, and carrier product lines. He graduated from California State University, Fullerton, with a degree in International Marketing and Philosophy in 1992. With executive oversight on significant Intelesys projects, he specializes in local municipalities and K-12 deployments. Certified as a systems designer and information systems consultant, he is a recognized industry speaker and consultant, awarded the California State University San Bernardino service entrepreneur of the year in 2012. Over the past 20 years, Mr. Balzer has driven Intelesys' direction, leading it to become a prominent provider on the west coast through innovative products and delivery methods.



Aaron Betts

Operations Manager

Responsibilities: Management of Operations Department

Since joining Intelesys in 2012, Mr. Betts has been instrumental in leading the Operations Department since 2014. His extensive 27-year experience in the IT industry includes overseeing numerous telecommunication system conversions and managing projects for clients with over 500 endpoints, as well as Municipality and K-12 clients. His expertise has contributed significantly to a 97% client retention rate and consistently high satisfaction ratings. Mr. Betts ensures projects are completed on time and within budget, showcasing his commitment to excellence and making him a valuable asset to Intelesys.



David Garcia

Network Engineer

Responsibilities: Management of technical projects

Since joining the company in 2004, Mr. Garcia has excelled in the IT and telecommunications field. His extensive experience includes configuring client networks and providing valuable consultation. As a senior PBX engineer at Intelesys, he actively contributes to network evaluation, system design, and implementation of new hosted platforms. With certifications in Cisco, HP, Microsoft, and Mitel, Mr. Garcia possesses diverse technical expertise. He oversees Network Design, focusing on tasks like vulnerability scanning, remediation, network isolation, and routing. Mr. Garcia provides technical supervision for projects exceeding 500 endpoints and those critical to Intelesys, such as municipal and K-12 deployments. His leadership extends to network-related projects involving switches, firewalls, servers, and virtual environments, making him a pivotal member of the Intelesys team.



Matt Saenz

Telephony Specialist

Responsibilities: Management of hosted installations and client transitions

Mr. Saenz, part of Intelesys since 2010, oversees hosted installations and client transitions. Certified in platforms like Mitel Connect and RingCentral, he designs and programs PBX deployments. With 20 years of PBX and telephony support, he specializes in transitions for Municipal and Education clients, offering expertise in network and telephony support. His skills encompass designing, programming, installing, and troubleshooting both premise and hosted PBX solutions. Additionally, Mr. Saenz holds certifications as a SonicWall CSSA and MikroTik MTCNA & MTCSE.



Charles Henigan

Security Specialist

Responsibilities: Management of Security for IT policies and regulations

Mr. Henigan serves as Intelesys' lead Security Specialist, ensuring that new PBX deployments align with clients' IT security policies and regulations. Since joining in 2019, he has brought his 25 years of industry expertise in Network Security to the team. With certifications including Microsoft Certified Systems Administration, Security+ SY0-501, and Cisco CCNA, he's actively pursuing his CPT and CEHv11 certifications. Mr. Henigan's experience spans healthcare and private sectors, where he provided Cybersecurity Assessments, Security remediation, Network hardening, and Firewall management for over two decades. He has established a security baseline for clients, guiding the team in network vulnerability scanning, remediation, firewall hardening, and network fortification.



Jessye Gentry

Training and Support Specialist

Responsibilities: Managed client telephone training and education

Ms. Gentry, who joined Intelesys in 2021, leads client training and education in telephony, specializing in hosted PBX solutions. She coordinates, schedules, and conducts end user training, providing printed materials and optional video recordings for future onboarding. Ms. Gentry also manages the client support experience, ensuring timely handling of support requests and overseeing their completion. With experience training hundreds of users on both hosted and premise telephony systems, she plays a crucial role in ensuring clients' smooth transition and ongoing support.

5.2 General Operations

OVERVIEW

Part of the benefits of working with Intelesys is the years of knowledge that the Intelesys team maintains. Intelesys is extremely knowledgeable in the workings of cities and government entities and the processes required to make them successful. The following sections shows Intelesys' ability to fully support the areas of General Operations in the RFP. Intelesys maintains a full staff of highly-skilled support engineers in our Ontario, California, headquarters. All help desk support is provided from this location by Intelesys employees, and Intelesys does not outsource help desk support to any outside provider.

5.2.1 Operations / Administrative Services

As stated in the Company Profile, Intelesys has held the position of Interim IT Director for a city and understands the needs and processes required for the successful oversight of the account and administrative functions. Intelesys will meet regularly with the District's IT Manager to provide regular communication, performance reports (both network related, and account related) and provide expertise in technology strategy and planning for the District's future growth.

As shown in the SLA section of the RFP response, Intelesys maintains high standards of support and will review these support metrics with the IT Manager on a scheduled basis. Together we will identify areas that need better processes, improved metrics, and other items to ensure the District staff are satisfied with the support provided by Intelesys. Intelesys will maintain an online repository for all documentation regarding the account with the District.

Intelesys maintains a fairly flat hierarchy which provides the District with access to the Intelesys Executive team should the need arise.

During our tenure as the Managed Support Services Company for the Mission Springs Water District, Intelesys will guide the strategic planning, development, deployment, and management of the current IT systems, and support the evaluation and development of long-term planning to meet future needs.

Intelesys will perform lifecycle planning of all IT assets, research costs associated with IT asset refresh cycles, assist in the negotiation of contracts with vendors.

In our role of IT Management, Intelesys will assist in selecting appropriate technology solution(s) and vendor(s) based on current market technologies and industry standards. We will assist with coordination with any third-party vendor(s) with issues that pertain to information systems/technology issues.

Finally, Intelesys will work to review information systems guidelines, policies and procedures. We will assist with evaluation and recommendations in regards to software and hardware purchases, compile hardware and software upgrade schedules, work to recommend a budget for the purchase of equipment, supplies, and other products or services as needed and purchase of such equipment, supplies and products or services.

Intelesys is well versed in strategic planning and ongoing IT Management. A perfect example of this is our experience with the City of San Marino. Having transitioned from their former IT provider of over 20 years, the City of San Marino found that they needed a high degree of IT support, management, and overall alignment with the city's operations. Following a seamless transition to Intelesys, we were able to quickly identify and develop a detailed IT budget and support strategy the City's leadership could present to its Council for the first time. As the sole provider of IT management, support, and guidance for the City of San Marino, Intelesys has made an incredible impact on security, operations, and the ability for the city to effectively plan for its IT needs in both the short and long term.

The City of San Marino executed a 3-year contract with Intelesys for ongoing IT management and support services with two 1-year subsequent contracts. Taking advantage of Intelesys' per-user government pricing, the City of San Marino now enjoys a predictable support expense, free from the fluctuating costs and unexpected charges they had been accustomed to. Intelesys' high level of involvement at the city leadership level allows the city to operate with no need to dedicate city staff to IT management oversight. Instead, Intelesys' transparent holistic approach has freed city staff to focus on what is most important – delivering value to its citizens.

5.2.2 Help Desk Support

Intelesys maintains a full staff of highly-skilled support engineers in our Ontario, California, headquarters. All help desk support is provided from this location by Intelesys employees, and Intelesys does not outsource help desk support to any outside provider.

Regardless of the method of support, as a government client, callers will enjoy a warm hand-off to a support technician familiar with your network and organization. Right from the start, we want each experience your staff has with our team to be extraordinary.

In addition to requesting support by phone, support tickets may be also be submitted by email. Email tickets received during regular business hours are immediately triaged by our Dispatch Team, and assigned to support technician based on the skillset and availability required to resolve the issue the first time. When a technician is onsite at the Water District, per the requirements of the RFP, these support issues will be assigned directly to this resource. On occasion, we will find the need for the issue to be escalated to a specialized engineer remotely. Our goal is to always ensure that the best and most-ideal resource is used for each and every issue.

We utilize best-in-class tools to provide the highest levels of support. Our goal is to solve issues with the least possible interruption to the user. In many cases, we can troubleshoot, diagnose, and resolve issues using our backend management tools – avoiding the inherent disruption caused by interrupting a user's ability to work. In the cases where a screen sharing session is beneficial – such as when a user wishes to illustrate a challenge they are experiencing – our tools make the process fast and secure.

HELP DESK AVAILABILITY AND RESPONSE TIMES

Intelesys will provide skilled technician aligned with the District's schedule. Our Ontario, CA, Help Desk is staffed and available to provide immediate support 24x7, 7 days a week.

DESKTOP APPLICATIONS SUPPORT

By focusing squarely on the municipal and education markets, Intelesys has been able to develop an expertise in the products and solutions our clients rely on. This allows us to provide a great deal of support and guidance in the desktop applications governments use, including:

Application	Purpose
Adobe Creative Cloud Suite	Graphic design and editing, desktop publishing and page layout
AlphaCAM (Solidworks)	Computer-Aided Manufacturing software for woodworking, metal and stone cutting
ArcGIS Desktop	Mapping data, analysis
Audiolog / Verint Recording	Call recording
AutoCAD	Architectural drafting and engineering design
AVTEC	Police Radios
AWE Early Literacy Station	Literacy education and learning systems for libraries
Blackboard Connect	Mass communication tools
BlueTeam (for IAPro)	Field management of incidents for police officers and supervisors
CAD/RMS	Computer-Aided Dispatch and Record Management Software, Mobile Computing for Law Enforcement
CivicPlus	Government website CMS, design, and hosting
Crewsense	Staff resourcing, scheduling, tracking, time & attendance, etc.
Corel Suite	Desktop publishing
Dakin Brain Fitness	Brain fitness training for improving memory and language abilities, strengthen attention, focus, and concentration
Deep Freeze Enterprise	Computer change-management tool
Deepnet	Authentication platform
Digital EMS	ePCR “Medic Clipboard” program on FD iPads
Emergency Reporting	Fire & EMS reporting and records management
Envisio	Performance management
FIREHOUSE Software (ESO)	Records management software
FirstNet First Responder	Priority Network for Police and Fire
FireScene 6 Desktop Edition	Field diagramming and reporting tool for pre-plans and post event critiques and reports
GOGovApps	Code enforcement

GovClarity	Map-based real estate application in the cloud providing the ability to access, integrate, and visualize location data.
HdL Prime	Revenue administration and management
IAPro	Internal Affairs and Professional Standards management
LACRIS (CalPhoto)	Los Angeles County Regional Identification System (Criminal biometric identification, networked LiveScan implementation)
Laserfiche	Records management and retention
Lexipol	Policy management for public safety
LexisNexis	Legal research tool, data analytics
Meritage Systems	Permits
Microsoft Exchange	Email and collaboration platform
Microsoft Office 365	Hosted email and collaboration platform
Microsoft Office Suite	Outlook for email management, plus general creation and editing of everyday documents, spreadsheets, and presentations.
Mitel/ShoreTel Connect	Mitel IP phone control and collaboration
MK Solutions RFID	Library self-service check-in /check-out, security, return, and sorting.
Municode	Government website CMS, design, and hosting
NetMotion	Mobile VPN security and remote access (used for communication from PD vehicles to server)
Nixle	Online emergency community notifications social platform
NJStar Communicator	Chinese, Japanese, and Korean (CJK) language tools for Windows
OCLC	Library catalog
PC Reservation (EnvisionWare)	Computer access and reservation control
PINS	Insurance management
POST EDI	Electronic Data Interchange for California Peace Officer Standards and Training platform
QuickBooks	Accounting
RecTrak	Parks & Recreation department tracking
Revize	Government website CMS, design, and hosting
Springbrook	Civic Platform
Target Solutions	Online tools for training, compliance, inspections, and workforce management
TASER Evidence Sync	Upload evidence from any source to Evidence.com

Toro Sentinel Irrigation	Centralized irrigation controller by Toro
Vesta 9-1-1	911 call handling
Vigilant Solutions	Automatic License Plate Recognition
Watchguard Video	Video evidence management, body cameras and in-car video

5.2.3 System Administration / Infrastructure Services

Intelesys consistently develops upon a number of best-practices for the management and administration of Active Directory. An ideal Active Directory implementation goes far beyond the addition and termination of user accounts. From streamlining user management, to implementing AD-integrated multifactor authentication (MFA) and expansion of AD authentication beyond the Windows network via LDAPS and RADIUS, to providing early notification of password expiration to users via email and text, to ensuring a secure policy-based environment with the proper deployment of OU structure and Group Policy – Intelesys ensures that your environment is performing at its peak by appropriately leveraging the power of a well-managed Active Directory.

EXCHANGE AND OFFICE 365 ADMINISTRATION

Intelesys has decades of in-the-trenches experience with the implementation and administration of Microsoft Exchange, and is well-versed in the provisioning and management of Office 365. Taking mail management even further, Intelesys commonly provides our clients with the advanced email archiving and discovery capabilities that government entities require and the encryption and mail security tools our technology climate demands. We then work with clients to unify their branding by implementing automated email signatures that apply to all mail your users send without any intervention on their end, all while adhering to your approved design and incorporating name, title, and contact information straight from Active Directory.

NETWORK MANAGEMENT TOOL STACK

Intelesys has worked with the industry's most-respected MSP software developers to assemble a suite of tools designed specifically to provide the greatest resources, functionality, and support to government entities like yours. Though we keep the solution names private in public RFP responses – for the security of all our managed IT clients – these tools provide incredible benefits to our team and your organization alike:

- **Remote management and monitoring** (RMM) providing alerting, patch management, scripting and automation, and policy enforcement
- Encrypted, **secure remote access** with one-way initiation – meaning we never "reach in" to your network, but rather are "invited in" through a protected protocol
- Advanced environment **documentation** platform
- **Antivirus** and antimalware protection with enhanced sandbox protection
- DNS protection and **web content filtering**
- Enterprise **mail protection** from spam, phishing, viruses, and more, with archiving, encryption, and protection from lost mail due to unexpected mail server downtime or connectivity loss
- Automated **asset tracking** and warranty discovery and reporting to ensure proper warranty tracking for your servers and switches.
- Continuous **documentation** of applications, systems, accounts, and work performed are provided as the customer needs dictate.

DATABASE MANAGEMENT

Working with various vendors and applications, Intelesys provides various levels of database support and management. We have supported the creation of reports through Crystal Reports and other industry software that fit the individual needs of the departments we support. Utilizing vendor support on custom databases or unique configurations, together with the years of supporting SQL and MySQL databases, Intelesys engineers are key in providing updates and reports on various platforms and applications

DATA BACKUP AND DISASTER RECOVERY

In working in the municipal space, Intelesys is well versed in the public record and need for data retention. Utilizing industry best practices, and if desired, Intelesys will recommend and implement a backup and recovery process that provides the needed availability of the District's data for today's operations as well as archive retrieval. Based on the needs of the department, we will plan and execute a backup strategy that will best protect the data and provide for quick and easy recovery should a hardware or data loss event occur. You can rest assured that your data is secure and ready should you need it. Intelesys can also work with the backup solution that is currently in place and will always make recommendations to ensure the safest storage and best recovery options for the District's data.

5.2.4 Voice and Communications Services

Intelesys has over 15 years' experience in Telecommunications and Phone System Support. Intelesys is a fully certified Ring Central installer and support company. Not only can we interface with Ring Central at an escalated level, we can also examine your existing programming and make suggestions on how it could be improved. Likewise, Intelesys has worked with all the major telecom carriers and can offer a level of support that smaller companies don't typically have access to.

5.2.5 Network, Switching, Routing, Wireless Services

Whether it's managing physical servers or virtual servers on platforms including VMware and Hyper-V, maintaining switches with complex VLAN and QoS requirements, or ensuring high levels of security by configuring and monitoring your firewalls and access points, Intelesys has you covered!

Intelesys' network engineering team carries a number of industry-recognized certifications from leaders like Cisco, HPE Aruba, Extreme, Microsoft, VMware, and more. We have assembled an incredible team that brings with them unbeatable experience – such as designing carrier-class networks for the country's largest telco providers. Having architected and implemented

numerous government networks from the ground up, we know what it takes to keep you running reliably.

As part of our ongoing management, we consistently monitor for network traffic performance an bottlenecks, ensure your devices are current on critical patches and firmware, and regularly scan and test for security vulnerabilities.

NETWORK SECURITY

In an environment where attacks on government entities are more and more prevalent – **such as we saw last year where over 33,000 companies had their Exchange servers compromised due to a zero day vulnerability** – taking proper steps to ensure the security of your data is of the utmost importance. Intelesys is here to guide you with the best practices, management and implementation of the tools and techniques to keep you protected.

Intelesys provides a full suite of tools specifically designed to work together in creating multiple layers of coordinated protection from threats originating from viruses, malware, phishing and other spam attacks, intrusions and security breaches, and more. We monitor the health of your network 24/7, and regularly scan for weak points such as insecure and stale passwords, unnecessary open ports, and more.

Even with all the protections and proactive efforts we provide, we truly understand that no security is perfect and to behave as if it were would be irresponsible. Because of this, we complement our security strategy with a full backup and disaster recovery solution designed to provide operational continuity in the event of any outage or data loss. We believe you should never be put in the position to have to pay a ransom for your data – as many U.S. cities have had to do paying over a combined $2.1 million between them. In fact, the San Bernardino Sheriff Department just recently paid $1.1 million to gain access to their data after a Ransomware event.

5.2.6 Scheduled Onsite Services and Support Personnel

Per the requirements of the RFP, Intelesys will support the District with an onsite resource two days a week from 7:30 am to 5:30 pm. Intelesys will also have a full team of support staff that is available to the District if the onsite technician is not available or if the issue that is presented needs a higher level of expertise.

This person will be the main point of contact for most of the work that will be required at the District. Our staff member will have the ability to escalate work to our office should a high level of skill set be needed in order to resolve the issue. Our staff member will become an extension of the District staff and blend with the culture and surrounding environment to ensure a positive working relationship. The technician will handle all Tier 1 and Tier 2 work that is requested by the District staff while maintaining proper documentation for the rest of our team so should the need arise any of the Intelesys staff could fill in. The onsite member of the team will also work with the District on public meetings to ensure all the required equipment is functioning as expected. One of the benefits of Intelesys is that should the technician be unavailable, a team of engineers are standing by to step in and help the District staff with any of their computing needs.

5.2.7 Proactive and Remote Services

Intelesys will install and configure remote monitoring systems that will continue to proactively monitor the District's network 24x7x365. Intelesys has utilities that will perform the following services:

- Proactive monitoring of all equipment
- Monitoring for critical alerts
- Notification of vulnerabilities and potential issues
- Regular monitoring of successful backups
- Status of network PC and Server patch management
- Monitor network and application availability

Intelesys will enable the alerts from the EDR firm and the SOC to be received and create an automated ticket in our ticketing platform. This will track all incidents from beginning to end.

Intelesys will perform all system updates / patching afterhours or within an acceptable scheduled maintenance window. Any troubleshooting or problem resolution from said patching will be included as part of Intelesys' standard hours of operation.

5.2.8 After-Hours Support

Intelesys staffs a rotating team of after-hours technicians ready to address and assist with the District's emergency needs **24x7x365**. We hold ourselves to a measured **15-minute response time** with automatic escalation to a secondary or tertiary resource in the event that the primary technician is occupied with a different issue or otherwise unavailable. Similar to our business hours, all support is provided with US-based staff operating from our Ontario, California, office.

Users contacting Intelesys for after-hours support (during off-hours, weekends, and holidays) will be assisted utilizing the same support capabilities and resources available during business hours. This includes live phone support, remote support screen sharing sessions, and onsite technician response if required.

5.2.9 Reporting and SLA



Every support issue is tracked and documented in our ticketing system. All work performed and time invested in each ticket is detailed and audited for accuracy.

Clients have access to managing and reviewing their tickets through our secure Client Portal.

Our service team maintains a close pulse on all active tickets, monitoring and acting in real-time to adjust allocated resources, manage to priorities, and maintain our SLA commitments. We utilize live dashboards throughout our facility to enable a constant awareness of open tickets.

SERVICE-LEVEL METRICS

Intelesys adheres to a strict Service Level Agreement (SLA) to ensure our clients get the response they need. Intelesys will fully comply with the Service Level Agreement statistics listed in the RFP. Included below is a chart of SLA metrics that Intelesys adheres to.

Intelesys Service Level Agreements (SLA's) - Managed Information Technology Services

Impact Level	Categorization Guidelines	Normal Business Hours		After hours / Holiday		Committed Service Level
		Response Time	Resolution Time*	Response Time	Resolution Time*	
Critical	Major business impact and/or service disruption across multiple users / departments	Within 15 minutes	Within 1 hour	Within 15 minutes **	Within 1 hour	98%
High	Diminished operational ability across multiple users / departments	Within 15 minutes	Within 2 hours	Within 30 minutes **	Within 2 hours	98%
Medium	Single user issue / outage not impacting ability to perform operational requirements	Within 60 minutes	Within 4 hours	Next Business Day	Within 4 hours	95%
Low	Single user issue causing inconvenience or frustration where a viable work-around exists	Within 90 minutes	Within 8 hours	Next Business Day	Within 8 hours	95%
Scheduled	Issue not requiring immediate attention which is scheduled for a later time or an onsite visit based on impact and availability	Within 4 hours	Scheduled	Next Business Day	Scheduled	95%
Adds / Moves / Changes	Additions of new equipment and/or changes in existing equipment (Items involving more than 5 devices may require a project plan)	Within 4 hours	3-5 Business days	Next Business Day	3-5 Business days	95%
Anti-Virus Updates	Virus definitions continuously updated real time, to stay current with known threats					
Patching Updates	Normal patches applied with two weeks of release pending precaution environment approval, elevated patch updates applied real time based on CVSS (Common Vulnerability Scoring System)					8%
Data and Operating Systems Back-ups	Client data and network operating systems structure is backed up hourly with offsite replication and data versioning available for prior date recovery					95%
Customer Satisfaction	Every service order interaction will include a third party rating measuring if the technician was courteous and professional, fully addressed user concerns, user is satisfied with the outcome of the service order resolution, and if user recommend Intelesys to a friend or colleague. Ranking is on a scale of 1-5 with an equally weighted average of the scores					95%

* Resolution time may be extended based on additional troubleshooting needs, work will not be interrupted without resolution
** After hours notification requested to be made via telephone call for urgent issues

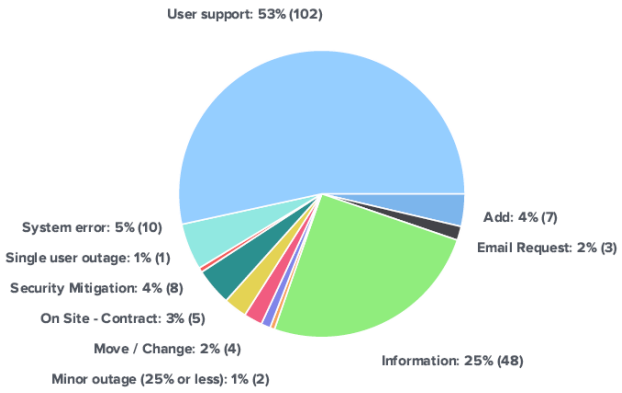
REPORTING

Intelesys believes that the strongest asset in a customer relationship is communication in how the Intelesys team is performing their support of the District and what kinds of work are being asked to support. These metrics will help guide and shape the relationship long term and any adjustments that need to be made. Intelesys will provide the IT Manager with reports on a weekly and monthly basis. These reports will indicate the amount and type of help desk requests the District is producing, the SLA response for these requests, the MTTR (mean time to response and resolution) for the District's requests. Included below are some sample reports that other Intelesys Clients have requested.

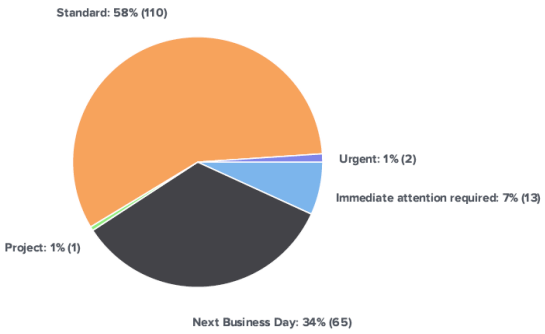
TICKET STATISTICS

Some of the reports that Intelesys can deliver weekly, monthly, quarterly, or as needed schedule are what type of work is being requested, how many and what types of tickets are being requested, and how urgent the requests that are coming in are. This gives the District valuable insight into if their requests stem from aging hardware, end user training, or other related incidents. Examples of such statistics are included below.

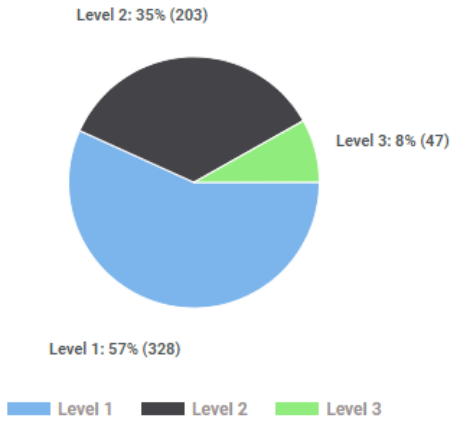
Tickets Received by Type



Tickets Received by Priority



SO Level for previous Mo.



BACKUPS

Another critical report type is the health and availability of the District's Data, the lifeblood of the organization. By monitoring the backups and producing regular reports, the District will always know the health of their backup solution and the availability of the data in case a recovery is necessary. Also, reports on Quarterly Restores that are actually performed for verification that the data can be recovered as expected in the event of an emergency.

Device	Client name	Type	Backup Status	Backup Start Time	Backup End Time	Time to Complete	Volumes
SM-DC.ci.xxxx.xx.xx		x360Recover	Successful	03/21/2022, 9:00 PM	03/21/2022, 9:02 PM	2 m	C:
SM-DC.ci.xxxx.xx.xx		x360Recover	Successful	03/20/2022, 9:00 PM	03/20/2022, 9:02 PM	2 m	C:
SM-DC.ci.xxxx.xx.xx		x360Recover	Successful	03/19/2022, 9:00 PM	03/19/2022, 9:03 PM	3 m	C:
SM-DC.ci.xxxx.xx.xx		x360Recover	Successful	03/18/2022, 9:00 PM	03/18/2022, 9:02 PM	2 m	C:
SM-DC.ci.xxxx.xx.xx		x360Recover	Successful	03/17/2022, 9:00 PM	03/17/2022, 9:04 PM	4 m	C:
SM-CONNECTHQ.xxxx.xx.xx		x360Recover	Successful	03/21/2022, 9:00 PM	03/21/2022, 9:07 PM	7 m	C:, D:
SM-CONNECTHQ.xxxx.xx.xx		x360Recover	Successful	03/20/2022, 9:00 PM	03/20/2022, 9:02 PM	2 m	C:, D:
SM-CONNECTHQ.xxxx.xx.xx		x360Recover	Successful	03/19/2022, 9:00 PM	03/19/2022, 9:02 PM	2 m	C:, D:
SM-CONNECTHQ.xxxx.xx.xx		x360Recover	Successful	03/18/2022, 9:00 PM	03/18/2022, 9:03 PM	3 m	C:, D:
SM-CONNECTHQ.xxxx.xx.xx		x360Recover	Successful	03/17/2022, 9:00 PM	03/17/2022, 9:02 PM	2 m	C:, D:
SM-EXCH.ci.xxxx.xx.xx		x360Recover	Successful	03/22/2022, 3:01 PM	03/22/2022, 3:17 PM	16 m	C:
SM-EXCH.ci.xxxx.xx.xx		x360Recover	Successful	03/22/2022, 2:00 PM	03/22/2022, 2:17 PM	17 m	C:
SM-EXCH.ci.xxxx.xx.xx		x360Recover	Successful	03/22/2022, 1:00 PM	03/22/2022, 1:17 PM	17 m	C:
SM-EXCH.ci.xxxx.xx.xx		x360Recover	Successful	03/22/2022, 12:00 PM	03/22/2022, 12:17 PM	17 m	C:
SM-EXCH.ci.xxxx.xx.xx		x360Recover	Successful	03/22/2022, 11:00 AM	03/22/2022, 11:18 AM	18 m	C:
SM-CHRDS01.ci.xxxx.xx.xx		x360Recover	Successful	03/22/2022, 3:30 PM	03/22/2022, 3:33 PM	3 m	C:
SM-CHRDS01.ci.xxxx.xx.xx		x360Recover	Successful	03/22/2022, 11:30 AM	03/22/2022, 11:35 AM	5 m	C:
SM-CHRDS01.ci.xxxx.xx.xx		x360Recover	Successful	03/22/2022, 7:30 AM	03/22/2022, 7:34 AM	4 m	C:
SM-CHRDS01.ci.xxxx.xx.xx		x360Recover	Successful	03/21/2022, 7:30 PM	03/21/2022, 7:33 PM	3 m	C:
SM-CHRDS01.ci.xxxx.xx.xx		x360Recover	Successful	03/21/2022, 3:30 PM	03/21/2022, 3:33 PM	3 m	C:
SM-FILE.ci.xxxx.xx.xx		x360Recover	Successful	03/22/2022, 3:00 PM	03/22/2022, 3:04 PM	4 m	C:, E:
SM-FILE.ci.xxxx.xx.xx		x360Recover	Successful	03/22/2022, 2:00 PM	03/22/2022, 2:05 PM	5 m	C:, E:
SM-FILE.ci.xxxx.xx.xx		x360Recover	Successful	03/22/2022, 1:00 PM	03/22/2022, 1:04 PM	4 m	C:, E:
SM-FILE.ci.xxxx.xx.xx		x360Recover	Successful	03/22/2022, 12:00 PM	03/22/2022, 12:05 PM	5 m	C:, E:
SM-FILE.ci.xxxx.xx.xx		x360Recover	Successful	03/22/2022, 11:00 AM	03/22/2022, 11:04 AM	4 m	C:, E:

Managed Services Proposal

The Information Technology Services Solution by Intelesys offers a 360-degree answer to your organization's IT needs. Our diverse engineer pool delivers specialists in every IT area, focused on technologies used by local municipalities.

CLIENT	Mission Springs Water District	**BILLING ADDRESS**	Desert Hot Springs, CA.
AGREEMENT TERM	12 months	**Network Hardware**	29 laptops (Microsoft Surface, Lenovo, HP) 3 VM Desktops 36 desktops 20 iPads 50 District smartphones (iOS/Android) 3 Physical Servers with 6 Images
Switching and Routing	3 Layer-3 Switches 2 firewalls 14 Layer-2 Switches 12 Wireless Access Points 1 Ubiquity Building Bridge pair 1 Ubiquity AirFiber pair 3 NAS units 1 Network NVR 26 Desk Phones		

Managed Services Quote

Monthly Managed Services Agreement	
Onsite technician 2 Days/week	
Reimbursable expenses	Included
Total Monthly Cost	**$ 10,498.95**
(Cost includes a 35% Government Discount)	

Included Services:

Full-Service help desk

- Desktop Support Technicians will provide desktop support for all problems and project calls to diagnose, upgrade, install, fix, adjust, and general problem resolution
- Staffed with Level 1, 2, and 3 CJIS Certified engineers
- Onsite escalation provided as needed

Desktop hardware and software maintenance

- Review of all process logs for normal execution and performance.
- Preparation of reports and outputs for distribution on next regular workday.
- Review of security logs and for unusual activity.
- Keeping and maintaining records on hardware assets: Acquisition date, Warranty date, maintenance agreement location, maintenance and repair contact number.
- Patch management.
- Intelesys will procure and manage any Microsoft 365 licenses the district requires
- Additional licenses as directed by the district will me procured and managed by Intelesys

Network and Systems Support

- Network is defined as including all District switches, hubs, routers, bridges, repeaters, firewalls, servers, AP's etc.
- Maintenance of network cabling within District facilities including patch management.
- Network and network device performance monitoring, diagnostics, and tuning.
- Network and network device configuration and version updates to keep within two versions of current.
- Network and network device configuration management and record keeping.
- Network, network device and server capacity monitoring and planning.
- Firewall monitoring for intrusion attempts, attacks, viruses, etc.
- Firewall configuration and version updates.

- Server OS configuration and version updates to keep within two versions of current.
- Any additional projects or initiatives as directed by the district.

Documentation

- Monthly report on SLA performance and ticket volume
- Network hardware inventory for all managed devices with release dates, patch status and system life report
- Network device configurations and network layout map

District to provide (Intelesys to bid, procure, and implement if not currently in place

- Enterprise Anti-Virus solution – Intelesys to bid top three government products utilizing government purchase rates and work with client to select appropriate solution if one does not exist
- Enterprise back-up solution - Intelesys to design and bid top three government products utilizing government purchase rates and work with client to select appropriate solution if one does not exist
- Enterprise DR solution - Intelesys to design and bid top three government products utilizing government purchase rates and work with client to select appropriate solution if one does not exist
- Active support agreements required for major network hardware and infrastructure

Deliverables

- Deliver expected annual expense forecast for district budget process
- Perform annual network assessment with full reporting
- Track system support status and extended warranty cost
- IT Satisfaction Survey – Statistical and end user measurement
- Performa annual CJIS audit to confirm network compliance
- Per Amendment dated 4/28/26, Intelesys to procure IT equipment and/or subscription services, including but not limited to VOIP phone communications, servers, and network infrastructure. This amendment also authorizes Intelesys to support and/or maintain such services and hardware.

User Costs

Cost of the current quote are reflective of the current user count and will be adjusted up/down per the numbers below

- New End User (Defined as an increase in user count)
  - Setup ……..$ 140
  - Monthly Charge ……..$ 90
- New Device (Defined as an increase in device count)
  - Setup ……..$ 85
  - Monthly Charge ……..$ 45
- Additional Considerations / Possible charges
  - Anti-virus, email filter, internet filter, Office 365, etc. license cost currently paid for by district will increase
  - Additional equipment may be needed to support more users for example a data switch
  - Devices reference added desktops, laptops, and other end user computing devices
  - Servers and data switches will require a separate quote to add based on function and scope

TOTAL MONTHLY RECURRING: $10,498.95

Tuesday, February 3, 2026 1:55:11 PM - Search Results (Read-Only) - Laserfiche

Items	Quantity	Price



PowerEdge R760 Rack Server

1

$42,641.63

Customize

Saved

The price of some components may vary according to the quantity

View Details

Warranty & Support

Includes a NO WARRANTY UPGRADE SELECTED, 36 Month(s)

Upgrade to Prosupport Plus and 4Hr Mission Critical, 36 Month(s)

$5,328.62 Per System

Add To Cart

Dell Recommended

Show Details

Delivery to 92240

Free delivery for Dell Rewards Members as soon as **Thursday, May 14**

Coupon

Enter code

Apply Coupon

Items (1)	$42,641.63
Delivery	FREE
Estimated Tax	$3,714.91
Total	**$46,356.54**

Checkout

Unlock $50 (5,000 points) bonus Dell Rewards dollars* just for opening a Dell Pay Credit Account[D] (must enroll/ be enrolled in the Dell Rewards Program).

Apply

Pay with PayPal

Buy with G Pay

SafeKey VISA SECURE ID Check

Share Cart

MSWD NETWORK INFRASTRUCTURE UPGRADE MSRP PRICE ESTIMATE (2/2/2026)				
Line	**Description**	**QTY**	**LIST**	**Total**
1	Wireless Access Point	11	$ 490.00	$ 5,390.00
2	Wireless Access Point Premium Manufacturer Support	11	$ 49.00	$ 539.00
3	Outdoor Wireless Access Point	1	$ 1,500.00	$ 1,500.00
4	Outdoor Wireless Access Point Premium Manufacturer Support	1	$ 150.00	$ 150.00
5	Firewall - Main Office	1	$ 4,717.50	$ 4,717.50
6	Firewall - Main Office - Security Service	1	$ 510.00	$ 510.00
7	Firewall - Remote Office	3	$ 1,605.80	$ 4,817.40
8	Firewall - Remote Office - Security Service	3	$ 173.60	$ 520.80
10	Network Switch - 48 Port PoE	2	$ 5,835.00	$ 11,670.00
11	Network Switch - 48 Port PoE Premium Manufacturer Support	2	$ 583.50	$ 1,167.00
13	Network Switch - 24 Port PoE	6	$ 2,721.00	$ 16,326.00
14	Network Switch - 24 Port PoE Premium Manufacturer Support	6	$ 272.10	$ 1,632.60
16	Fiber Switch	1	$ 3,052.00	$ 3,052.00
17	Fiber Switch Premium Manufacturer Support	1	$ 3,052.00	$ 3,052.00
19	Cellular Modem	1	$ 1,995.00	$ 1,995.00
20	Cellular Modem Premium Manufacturer Support	1	$ 199.50	$ 199.50
22	Network Switch - 8 Port	10	$ 377.00	$ 3,770.00
23	Network Switch - 8 Port Premium Manufacturer Support	10	$ 37.70	$ 377.00
24	Network Equipment Management System	1	$ 403.52	$ 403.52
25	FortiAnalyzer-Network Equipment Management System Subscription Licenses	2	$ 1,293.50	$ 2,587.00
				$ 64,376.32





Solution Platform Pricing

Solution:	Zoom
Recurring Annually	
Hosted Telephone System Solution	$ 5,220.00
Hosted Contact Center Solution	$ 1,319.40
Estimated taxes and fees	$ 368.92
Recurring Annually	$ 6,908.32
One time setup / hardware Costs	
Estimated Professional Services (Includes design, programming, and onsite deployment)	$ 5,440.00
Existing Customer Discount	$ (2,173.50)
Training	$ 1,500.00
Training Discount	$ (525.00)
One-time Total	**$ 4,241.50**
Annual Costs	**$ 6,908.32**
Total first year costs	**$ 11,149.82**

EXHIBIT B

Term, Early Termination & Notice

Information Technology Management Services and Support

A. Term of Agreement

This professional services agreement shall be effective upon approval and execution by the parties hereof (the "effective date") and shall continue until terminated as provided for herein. Notwithstanding anything in this agreement to the contrary, this agreement shall automatically terminate after one (1) year from the effective date, unless extended by the parties with the approval of the Mission Springs Water District (sometimes referred to herein as "District").

B. Early Termination of Agreement

Notwithstanding any other provision of this agreement, Mission Springs Water District, at its sole option, may terminate this agreement with or without cause, or for no cause or for convenience at any time by giving thirty (30) days' written notice to the Consultant.

District has the right to terminate or abandon any portion or all the work under this Agreement by giving thirty (30) days written notice to Consultant. In such event, District shall immediately be given possession, title and access to all administrative accounts and data (including any passwords) required, necessary or desirable for complete access to and management of any data/asset/service created, stored, maintained or setup for the District, all original field notes, drawings and specifications, written reports, and other documents and data produced or developed for that portion of the work completed and/or being abandoned. The District will pay the Consultant at the agreed upon rate set forth in the Schedule of Charges rendered for any portion of the work completed prior to termination where the District finds the work acceptable. If said termination occurs prior to completion of any task for the Project for which a payment request has not been received, the charge for services deemed acceptable by District will be pursuant to the rates set forth in the Schedule of Charges but not to exceed the reasonable value of such services The District shall not be liable for any costs other than the charges or portions thereof which are specified herein. The Consultant shall not be entitled to payment for unperformed services or work deemed unacceptable by the District and shall not be entitled to damages or compensation for termination of work.

Consultant may terminate its obligation to provide further services under this Agreement upon thirty (30) days written notice to the District only in the event of substantial failure by the District to perform in accordance with the terms of this Agreement through no fault of Consultant.

C. Notice

All correspondence and Notices will be sent to the following addresses as noted below for Mission Springs Water District and Intelesys Communications Services.

OWNER
Attn: Brian E. Macy
Mission Springs Water District
66575 Second Street
Desert Hot Springs, CA 92240

CONSULTANT
Attn: Aaron Betts, President
Intelesys Communications Services
3155 Sedona Court, Suite B
Ontario, CA 91764

BOARD OF DIRECTORS REGULAR MEETING STUDY SESSION MINUTES

Thursday, May 14, 2026 at 3:00 PM

66575 Second St, Desert Hot Springs, CA AND/OR Via Teleconference

CALL TO ORDER
President Duff called the meeting to order at 3:00 PM

ROLL CALL
BOARD MEMBERS PRESENT: President Amber Duff, Vice President Robert Griffith, Director Ivan Sewell, Director Russ Martin, Director Ted Mayrhofen

STAFF MEMBERS PRESENT: Brian Macy, Marion Champion, Kurt Kettenacker, Amanda Lucas, April Scott, Cynthia Acosta, Eric Weck, Jeff Nutter, Will Whitten, Danny Friend, Selene Rodriguez, Dori Petee

RULES OF PROCEDURE
Rules of Procedure were read by General Counsel.
All noticed meetings are conducted using Rosenberg's Rules of Order as a procedural guideline. Directors should refrain from responding directly to public comments at meetings of the Board. The Board President will refer matters raised during public comment to the General Manager for follow-up when appropriate. Occasionally, a prompt response may be offered when an obvious answer resolution is available provided this is done in compliance with the Brown Act. Directors should refrain from debating or making decisions in response to public comments. The President of the Board presides at all meetings and decides all points of order and procedure during meetings. The President is responsible for maintenance and decorum at all Board meetings. No person shall be allowed to speak who has not first been recognized by the President. All questions and remarks should be addressed to the President as the presiding officer. No member of the Board should speak more than once about any one subject until every other member on the Board wishing to speak on the subject shall have been given the opportunity to speak. No Board member shall interfere with the orderly progress of a Board meeting. In order to ensure the orderly progress of Board meetings the Board President regulates the amount of time to be dedicated to a particular agenda item."

PUBLIC INPUT
No public input

EMPLOYEE RECOGNITION

HUMAN RESOURCES REPORT
This item will be fully recognized on Monday.

PRESENTATION

PUBLIC HEARING ~ VACANCIES, RECRUITMENT, AND RETENTION EFFORTS ~ AB 2561
General Manager Macy confirmed that a staff report was included with the agenda item and explained that, because this is a public hearing, the presentation must also be made part of the official record. It was noted that AB 2561 requires local agencies to report annually on persistent vacancies, as these can affect service delivery and increase workload demands on existing staff. Staff further explained that

the law requires the governing body to receive this report in a public hearing prior to adoption of the agency's final budget. Because the District's budget is scheduled for adoption next month, staff indicated that the hearing was being scheduled now to ensure compliance. It was also noted that Oriana would provide the presentation at the public hearing.

ACTION ITEMS

AWARD OF CONTRACT TO ECOLOGY AUTO PARTS INC. FOR HAULING AND OFF-SITE DISPOSAL OF BIO-SOLIDS, GRIT AND SCREENINGS

It is recommended to authorize the General Manager to execute a 3-year contract with Ecology Auto Parts, Inc. (Ecology), in an amount not to exceed $1,380,000 ($460,000 per year), for off-site hauling of biosolids, grit, and screenings for landfill disposal or beneficial reuse, and to take all actions necessary to complete the project.

General Manager Brian Macy introduced the item and asked Director of Operations Danny Friend to provide the staff report. Mr. Friend explained that the District's current three-year contract with Ecology is set to expire on June 30, and staff therefore issued a request for proposals to secure continued service. Three proposals were received from Ecology, Synagro, and Chaffi Construction. After review by a selection team, Ecology received the highest overall score based on competitive pricing, extensive experience in biosolids hauling, availability of necessary equipment, access to multiple local disposal outlets including composting and beneficial reuse options, and the company's proven reliability and familiarity with District operations. Staff therefore recommended awarding the new contract to Ecology. Mr. Friend also noted that, at the Board's prior request, the current spill response plan was included in the meeting packet.

During Board discussion, Director Mayrhofen asked for clarification regarding disposal methods for grit and whether cost savings could be achieved by using standard dumpsters rather than hauling grit with sludge loads. Staff explained that grit and rags are considered non-hazardous trash and that the District has already begun transitioning their disposal to regular dumpsters through Desert Valley Disposal. This change, implemented within the last month, is expected to save the District nearly $17,000 annually while maintaining compliant disposal practices. Staff also noted that the adjustment was informed by operational review and cost comparisons conducted internally.

President Duff expressed appreciation for Ecology's service to the District over the past three years, noting that the company originally assisted during an emergency situation and has since provided reliable service without community complaints. She also asked staff to confirm the primary disposal location under the contract, and staff responded that material is primarily hauled to the Salton City Landfill. General Manager Macy added that the proposed contract would take effect in July and clarified that the District's upcoming budget approval will include funding for these required permit-related services.

RESOLUTION 2026-04 ~ SUPPORTING ACWA'S VISION FOR OUR WATER FUTURE CAMPAIGN
It is recommended to adopt Resolution 2026-04, expressing Mission Springs Water District's support for the Association of Water Agencies (ACWA) Vision for our Water Future Campaign.

Assistant General Manager Marion Champion presented Resolution No. 2026-04 in support of ACWA's *Vision for Our Future* campaign, an initiative intended to elevate water-related priorities with California's gubernatorial candidates, legislative leadership, and administration officials ahead of the 2027 transition. The presentation emphasized water's role in supporting housing, agriculture, the economy, the environment, and public health. Champion explained that ACWA's Board of Directors adopted the final vision document on March 20, following workshops and member surveys, and that the document is organized around four priority pillars: taking the lead on water, protecting affordability, delivering critical infrastructure, and modernizing water management systems. Staff noted that ACWA is encouraging member agencies to support the initiative through resolutions, letters of support, case studies, and local outreach, and a proposed resolution was included in the Board packet for consideration.

Board members expressed support for the resolution and asked whether member agencies had opportunities to provide input during development of the vision document. Champion confirmed that agencies were invited to participate through workshops and surveys before adoption and further noted that workgroups are being formed for three of the four pillars to continue developing action items and amplifying the message. Board members also discussed the possibility of participating in those workgroups to help provide input on future priorities. No public comments were received.

HUMAN RELATIONS REPORT AND RECOMMENDATION FOR ACTION
It is recommended that the Board consider the Human Relations Committee's recommendations and direct the Accounting Manager to implement the action item as part of the annual budget process.

Human Resources Manager Oriana Hoffert presented the Human Relations Committee report regarding employee requests received following the March 3 employee meeting. She explained that the District has followed the same annual review process for more than 20 years, with employee requests first undergoing senior management review, then evaluation by the Human Relations Committee, and finally presentation to the Board. Of the requests submitted this year, 10 were recommended to move forward, including three administrative items that do not require Board approval: direct deposit for employee reimbursements, Bring Your Kids to Work Day, and timely completion of performance evaluations. The seven items requiring Board consideration included a 2.91% cost-of-living adjustment for 2026 at an estimated annual cost of $173,739; one additional optional holiday with no added fiscal impact; increasing holiday standby pay from three hours to four hours, except Thanksgiving and Christmas which would remain at six hours, at an estimated cost of $3,900 annually; establishing a minimum 1.5-hour call-out pay for after-hours in-person responses at an estimated annual cost of $24,000; expanding compensation for customer phone calls to all field staff in 15-minute increments at an estimated annual cost of $12,675; increasing bilingual pay from

$25 to $50 per pay period at an estimated annual cost of $8,450; and increasing the annual boot allowance from $300 to $350 at an estimated annual cost of $1,200. The total estimated annual fiscal impact of the seven recommended items was approximately $224,000.

During Board discussion, Director Martin asked about the potential cost of increasing minimum call-out pay to two hours rather than 1.5 hours, and staff estimated that the annual cost would increase to approximately $32,000. President Duff and General Manager Brian Macy clarified that the committee brought all requests forward without a final recommendation because, when combined with possible merit increases, the total compensation impact could exceed the 3% amount originally contemplated in the budget. General Manager Macy explained that the District budgets all positions at top step for flexibility, and that salary savings from vacancies and internal staffing adjustments could help offset some of the additional costs. Director Mayrhofen asked whether the District provides incentives for veterans, and staff responded that no specific additional compensation is provided, although veterans may be hired at higher rates based on experience and qualifications. Director Mayrhofen also raised concerns about the proposed increase in bilingual pay, noting the growing number of bilingual employees and expressing a preference to keep the payment at $25 per pay period. General Manager Macy responded that the increase reflects the District's service needs, particularly in customer service, field operations, and outreach, but acknowledged that a cap may need to be considered in the future if the number of bilingual employees exceeds operational needs. President Duff stated a preference for retaining the bilingual pay increase to $50 rather than raising call-out pay to two hours.

DISCUSSION ITEMS

ADMINISTRATION BUILDING UPDATE

General Manager Brian Macy reported that bids for the Critical Services Center project, which includes a new administrative building and fleet maintenance warehouse at the District's current corporate yard, were opened on May 7. Two bids were received, ranging from $33 million to $35 million, and are currently under review by the district's architect, Ruhnau Clarke & Associates. Staff anticipates bringing a recommendation to the Board for approval in June. Mr. Macy also noted that the June item will include other necessary project costs, such as construction contingency, city development impact fees, and additional construction services outside of the architect's existing contract. He stated that the total project budget in the Capital Improvement Program is approximately $40.6 million, with about $38.5 million available for construction, and that staff believes the project remains within budget. In response to a Board question, Mr. Macy confirmed that the Board may award the bid before finalizing funding sources, and that staff will present proposed funding options at the June workshop, with Urban Futures participating in that discussion. A Board member expressed support for moving forward promptly to avoid the possibility of higher costs if the project were rebid.

GROUNDWATER PROTECTION PROGRAM UPDATE

Engineering Manager, Eric Weck presented a brief update on the Groundwater Protection Program. He reported that the District recently received bids for the Area M2 Septic-to-Sewer Project and that staff is now reviewing the contractor's submittals and materials for approval. Pending state approval, construction is anticipated to begin in July. He also noted that the environmental report review period concluded that day, and staff will work with Tom Dodson and Associates to review any comments

received and prepare a board agenda item for likely approval in June. Following board approval, the studies will be transmitted to the Army Corps of Engineers for inclusion in their NEPA documentation for the septic-to-sewer conversion project, which is expected to help move the federal review process forward.

CONSENT AGENDA

Consent agenda items are expected to be routine and non-controversial, to be acted upon by the Board at one time, without discussion. If a member would like an item to be handled separately, it will be removed from the Consent Agenda for separate action.

Accounting Manager Skyler Aubrey presented an update regarding revisions to the register of demands included in the agenda packet. He explained that the payment register originally provided was generated directly from the newly implemented Tyler ERP system, but the standard report did not include descriptions for payables. To address this, staff contacted Tyler and confirmed that custom reports can be created. In the interim, staff manually prepared the register of demands using the prior format from the former system while incorporating current Tyler data, with the goal of having an automated custom report available by the following month. General Manager Macy also noted that the revised register of demands, including the descriptions provided at the meeting, would be added to the agenda materials and made publicly available from Friday through Monday for board and public review. No questions or concerns were raised by the Board regarding the additions, and the meeting proceeded with the consent agenda.

APPROVAL OF MINUTES

It is recommended to approve the minutes as follows:
April 16, 2026 ~ Study Session
April 20, 2026 ~ Board Meeting

REGISTER OF DEMANDS

The register of demands totaling $3,305,102.63

REPORTS

DIRECTOR'S REPORTS

GENERAL MANAGER'S REPORT

Included in this report are the following oral reports:

A. Finance Report

Skyler Aubrey, Accounting Manager, presented the District's financial summary for the period July 1, 2025, through March 31, 2026. He reported that operating revenues were above budget, totaling $32.6 million compared to the budgeted $14.9 million, primarily due to $17.2 million in sewer pretreatment non-compliance fees. Mr. Aubrey noted that these fees may be reduced through future negotiations and, if unresolved by June 30, 2026, an allowance for bad debt may be applied based on collectability. Operating expenses totaled $18.3 million, which was below the budgeted $21 million, due to lower costs in outside services, legal expenses, electricity, and materials.

Mr. Aubrey further reported that non-operating revenues were below budget, totaling approximately $5 million compared to the budgeted $19.9 million, primarily because $12 million in anticipated grant revenue will be deferred to the following fiscal year for the M2 project. Investment income was also below budget. Non-operating expenses totaled $381,000 compared to the budgeted $623,000, largely due to the payoff of the $15 million Wells Fargo line of credit, leaving approximately $3.5 million in outstanding long-term debt. As a result, the District's change in net position was $19 million compared to the budgeted $13.2 million, reflecting performance above budget.

Mr. Aubrey also reported that the debt service ratio increased to 16.73, compared to 2.51 in the prior year, due to the line of credit payoff. Investment returns were 3.35 percent, compared to 3.2 percent in the prior year. Total cash balances were approximately $71 million, compared to $70 million in the prior year, while long-term debt liabilities were reduced by $15 million. Overall, Mr. Aubrey stated that the District was performing well in comparison to both the adopted budget and the prior year. No questions were raised by the Board.

B. Public Affairs Report

The Public Affairs report summarized recent District outreach, conservation, and community engagement activities. Assistant General Manager, Marion Champion, highlighted participation in regional events, including the Coachella Valley Economic Summit, CVCAN Golf Tournament, and ACWA Spring Conference, as well as the District's Earth Day event with Cabot's Museum, where Real Academy students unveiled an updated 3D watershed model. Upcoming events noted included the Women's Club scholarship social, Desert Hot Springs High School graduation, and the Greater Coachella Valley Chamber of Commerce awards dinner, where MSWD will be recognized as West Valley Large Business of the Year.

Staff also reported that the District's Fix a Leak campaign generated strong online engagement and will continue through May. The sewer prepayment season has begun, with more than 170 payments processed following the mailing of customer notices. In addition, the District received approval for a $300,000 Bureau of Reclamation grant to expand its rebate programs, including Energy Star dishwasher rebates and an evaporative cooler tune-up program. During board comments, Director Martin noted positive recognition of the Real Academy partnership at a recent conference, and staff added that the program received third place statewide from CWEA for community engagement. Director Mayrhofen asked for more information about the evaporative cooler program, and staff explained that details are still being developed.

COMMENTS

DIRECTOR COMMENTS AND REQUESTS FOR FUTURE AGENDA ITEMS

A. General Comments
B. Requests for Future Agenda Items
C. Requests for Future Meetings

President Duff noted one upcoming event—the CVAG General Assembly on June 29 and requested it be added to the District calendar.

CLOSED SESSION

CONFERENCE WITH LEGAL COUNSEL REGARDING POTENTIAL INITIATION OF LITIGATION
pursuant to Government Code Section 54956.9(d)(4) Two potential cases.

CONFERENCE WITH LEGAL COUNSEL REGARDING PENDING LITIGATION
Pursuant to Government Code Section 54956.9(d)(1). One case: Fournier v Mission Springs Water District (case number Adj19778853)

REPORT ON ACTION TAKEN DURING CLOSED SESSION
The Board met in closed session on the items listed above, there was no reportable action taken on either item.

ADJOURN
With no further discussion, President Duff adjourned the meeting at 4:45 PM

Respectfully submitted,

Dori Petee
Executive Assistant

BOARD OF DIRECTORS REGULAR MEETING MINUTES

Monday, May 18, 2026 at 3:00 PM

66575 Second St, Desert Hot Springs, CA AND/OR Via Teleconference

CALL TO ORDER
President Duff called the meeting to order at 3:05 PM

ROLL CALL
BOARD MEMBERS PRESENT: President Amber Duff, Vice President Robert Griffith, Director Ivan Sewell Director Russ Martin

BOARD MEMBERS PRESENT: Director Ted Mayrhofen

STAFF MEMBERS PRESENT: Brian Macy, Marion Champion, Kurt Kettenacker, Oriana Hoffert, Skyler Aubrey, Amanda Lucas, Eric Weck, Will Whitten, Selene Rodriguez, Dori Petee, April Scott

PLEDGE OF ALLEGIANCE
Led by Director Sewell

RULES OF PROCEDURE
Rules of Procedure were read by General Counsel.
All noticed meetings are conducted using Rosenberg's Rules of Order as a procedural guideline. Directors should refrain from responding directly to public comments at meetings of the Board. The Board President will refer matters raised during public comment to the General Manager for follow-up when appropriate. Occasionally, a prompt response may be offered when an obvious answer resolution is available provided this is done in compliance with the Brown Act. Directors should refrain from debating or making decisions in response to public comments. The President of the Board presides at all meetings and decides all points of order and procedure during meetings. The President is responsible for maintenance and decorum at all Board meetings. No person shall be allowed to speak who has not first been recognized by the President. All questions and remarks should be addressed to the President as the presiding officer. No member of the Board should speak more than once about any one subject until every other member on the Board wishing to speak on the subject shall have been given the opportunity to speak. No Board member shall interfere with the orderly progress of a Board meeting. In order to ensure the orderly progress of Board meetings the Board President regulates the amount of time to be dedicated to a particular agenda item."

PUBLIC INPUT

Julie Casserly: Julie Casserly of Sky Valley. I'm here today to put on record how uncomfortable I was with how I and many in my community were spoken to and portrayed at your 4/20 board meeting. I've been active in countless public meetings speaking before the board of supervisors planning commission during the multispecies habitat conservation plan, general plan amendment requests, workshops, etc. I have served our community in this capacity for close to 40 years. I was involved with the development of the 2003 general plan for our community and every subsequent amendment request since in 2008, 2016, and 2024. I do not spread disinformation.

I have never had to reach out on social media before to a community. We have an extensive email list of our residents. But since the entire IDA district was involved with no notification to anyone other than the three community councils and the fact that I found out that you were scheduled to vote on this issue by chance when I happened to look at your agenda only the day before Next Door, which I have used for lost and found pets, was the only way I could think of to at least give other ID8 rate payers a chance of notification. Not one part of my post on Next Door was incorrect. It was to advise those that were interested in and following the plan for divestiture about the meeting.

When Vice President Griffith chastised us for stating that this divestiture proposal was initiated due to efforts to develop in Desert Hot Springs, I meant no disrespect when I laughed, but I thought it was clear that not one board member took the time to watch the CVWD board meeting of September 23rd. I assume you were just unaware that CVWD stated that development and desert hot springs and the ID8 divestiture were tied together. At least that's what I thought until a couple weeks ago when I was sent dozens of emails written over the last 5 years between Mission Springs, Desert Hot Springs City Council, CVWD, numerous consultants, developers, property owners, on and on. All that was discussed was development. The topic was the lack of sewer service that impeded projects from moving forward. Initially a shared service agreement was pursued and that morphed into the ID8 divestiture. This was discussed for years before Chrome 6 was even mentioned. Not one of those bodies considered or even mentioned the rate payers of ID8. January 6 of this year was the first time I could find the cost of uh Chrome 6 remediation of topic and grant funding was not even mentioned until October. It appears that the grant idea was born due to stalled negotiation of the divestiture, not to help residents cover the threat of a possible $85 a month cost. It remains to be seen if that cost calculation is even correct. This consolidation is being pursued with no mention that as a Mission Springs rate payer, our water rates would initially double and quickly triple. The only way we've been kept informed is finding out by chance, watching videos of or attending meetings, keeping track of agendas, and most importantly through public records requests. I think our concerns regarding your transparency merit some consideration. Thank you.

Noel Ragsdale: Good morning, good afternoon, excuse me, Noel Ragsdale, we have been advised that you have submitted the application for financial assistance related to the ID8 uh divestiture. At the recent CBWD board meeting, we requested that our community council be provided with a copy of that application. We asked that board because your board has indicated that we need to direct comments and requests to them because we're not your customers.

Director Aguilar commented that since this is a public record, we are entitled to receive this document. We understand that a FOIA request has been made for it, but we ask you to provide a copy to us without having to go through the rigmarole of a FOIA request. Please stand by your claim of valuing transparency and give us a copy. Also at the CVWD board meeting, Director Estrada suggested it might be productive to conduct a workshop where there could be more robust communication between the ID8 members and the boards. Should such a meeting occur, such a or such a workshop occur, we hope

that some of your board members will attend because I am sure that there will be many questions that only you can answer. Again, transparency. Thank you.

Tabitha Davies: Hello, my name is Tabitha and I am an ID8 Ray Payer and I want to begin by addressing Vice President Griffith directly. At your last meeting, you characterized members of this community as armchair lawyers. Getting their news from Tik Tok and you prefaced your remarks with no offense. And saying no offense before insulting people does not erase the insult. It just documents that you knew it was one. And I want to be precise about why that conduct matters.

Because it's not just a rule and in rude, it's a violation of your own board's rules. Under Rosenberg's rules of order, public speakers cannot yield their time to one another. Time is non-transferable and the public is capped at three minutes per speaker. So when a board member uses an unlimited platform from the dais, characterize or push back on community that cannot pull its time and cannot respond, that is not debate, that is asymmetry weaponized against ratepayers that you seek to control. By the way, when that push back is delivered with the kind of emotional escalation that we witnessed at the last meeting, that level of dysregulation directed at members of the public from someone holding public office, it should be concerning to every member of the board and to every ratepayers that's watching. You chose to do that. You chose to break from the standard of conduct of your own rules so that they have been established and the record will forever reflect that choice. Now, since you've repeatedly insisted on the record that this consolidation has nothing to do with development, and yet every single sipper response that I have received and every public meeting record relevant to this matter frames this consolidation as the hinge for development down Palm Drive. So, the public is left with two possibilities in my opinion.

And I'll let the public decide which one they find more comforting. Either this board is being played by parties who have not been honest with them and the actual purpose of this project, or the board knows the actual purpose and is not being honest with the public about it. I can't tell anyone which it is. Only the people sitting on this dis can answer that. But the records don't match the talking points and the public deserves to know why. At your last meeting, you took quote sensitivity to accusations and a lack of transparency pointed to a certificate on the wall.

Transparency is responding to a cure and correct demand. I filed one and the responses I've got are dismissals, not responses, twice. So, speaking of transparency, why did your assistant general manager join a private mom's group the same day she opted to try to discredit my voice without announcing who she was and her only a comment on the day she joined? I might add, your district has documented groundwater contamination issues and are currently spending ratepayers money to remediate at what 10 million a year. CVWD who's significantly larger uses about 9.3.

So at the end of the day, what I have to say is the energy that I have brought to this situation with ID8 because we don't want you to take us hostage because it's essentially weaponizing municipal water. I will bring tenfold to make sure that if we get absorbed by Mission Springs, I make sure you're absorbed by Desert Water Agency. Have the day you deserve.

EMPLOYEE RECOGNITION

HUMAN RESOURCES REPORT

The Board recognized the following employees:

NEW HIRES

Neal Stephenson	Lead Field Operations Technician

ANNIVERSARIES

Nate Mather	Water Production Supervisor	1 Year
William Whitten	Business Analyst	2 Years
Cynthia Acosta	Administrative Assistant II	3 Years
Jason Weekley	C&M Supervisor	6 Years
Ann Rogers	Customer Service Representative II	10 Years
Robert Lopez	Purchasing and Warehouse Specialist	20 Years
David Pena	Lead Field Service Representative	21 Years

PRESENTATIONS

CWEA AWARDS PRESENTATION

Assistant General Manager Marian Champion reported that Mission Springs Water District received statewide recognition from the California Water Environment Association, including third place for its internship program with the Desert Hot Springs High School REAL Academy and second place for wastewater operations at the Nancy Wright Regional Water Reclamation Facility. She thanked staff for their dedication, professionalism, and teamwork in earning both honors.

PUBLIC HEARING ~ VACANCIES, RECRUITMENT, AND RETENTION EFFORTS ~ AB 2561

President Duff opened the Public Hearing and called for the Secretary's report. Notice of Public Hearing was posted to the Desert Sun on May 3rd & May 10th, 2026. As of this afternoon there were no comments or protest on this item.

Human Resources Manager Oriana Hoffert presented the District's annual workforce vacancies, recruitment, and retention update in compliance with AB 2561. She reported that as of May 14, 2026, the District had 57 budgeted full-time positions, with 3 vacancies, reflecting a 5.3% vacancy rate. The vacant positions are Engineering Technician, Customer Service Manager, and Director of Finance. During the current fiscal year, the District experienced 11 vacancies due to employee separations, new positions, and internal promotions, of which 8 have been filled, leaving 3 open positions. Ms. Hoffort reported a turnover rate of approximately 7.3% and stated that the District continues to prioritize internal advancement, competitive compensation and benefits, professional development, and employee recognition as key recruitment and retention strategies. She also noted potential recruitment challenges related to senior-level positions, a limited regional labor pool, and industry-wide shortages of certified water professionals.

Public Comment was given as follows:

Tabitha Davies: I just wanted to say thank you for your clarity in how you spoke and the fact that you didn't run as quickly as I do because having been in multiple meetings over the last year that generally is not how the presentations go. So, thank you.

Motion made by Vice President Griffith, Seconded by Director Sewell.
Voting Yea: President Duff, Vice President Griffith, Director Sewell, Director Martin

ACTION ITEMS

AWARD OF CONTRACT TO ECOLOGY AUTO PARTS INC. FOR HAULING AND OFF-SITE DISPOSAL OF BIO-SOLIDS, GRIT AND SCREENINGS

The Board authorized the General Manager to execute a 3-year contract with Ecology Auto Parts, Inc. (Ecology), in an amount not to exceed $1,380,000 ($460,000 per year), for off-site hauling of biosolids, grit, and screenings for landfill disposal or beneficial reuse, and to take all actions necessary to complete the project.

Presentation was given at Study Session, there is nothing further to add.

Motion made by Director Sewell, Seconded by Vice President Griffith.
Voting Yea: President Duff, Vice President Griffith, Director Sewell, Director Martin

RESOLUTION 2026-04 ~ SUPPORTING ACWA'S VISION FOR OUR WATER FUTURE CAMPAIGN

The Board adopted Resolution 2026-04, expressing Mission Springs Water District's support for the Association of Water Agencies (ACWA) Vision for our Water Future Campaign.

Presentation was given at Study Session, there is nothing further to add.

Motion made by Vice President Griffith, Seconded by Director Sewell.
Voting Yea: President Duff, Vice President Griffith, Director Sewell, Director Martin

HUMAN RELATIONS REPORT AND RECOMMENDATION FOR ACTION

The Board considered the Human Relations Committee's recommendations and directed the Accounting Manager to implement the action item as part of the annual budget process.

The Board received staff’s presentation regarding seven recommended budget items and provided direction to move the items forward as presented. Board members expressed support for the recommendations, noting the importance of remaining competitive to retain employees and recruit qualified candidates.

Motion made by Vice President Griffith, Seconded by Director Martin.
Voting Yea: President Duff, Vice President Griffith, Director Sewell, Director Martin

DISCUSSION ITEMS

ADMINISTRATION BUILDING UPDATE

The General Manager provided an update on the administrative building and Critical Services Center, noting that two bids were received for the project, ranging from $33 million to $35 million. He stated that both bids fall within the district's $40 million budget. The engineering and architectural team are currently reviewing the bids and expect to return to the Board in June with a recommendation.

GROUNDWATER PROTECTION PROGRAM UPDATE
Update provided on Thursday, there is nothing further to add.

CONSENT AGENDA

Consent agenda items are expected to be routine and non-controversial, to be acted upon by the Board at one time, without discussion. If a member would like an item to be handled separately, it will be removed from the Consent Agenda for separate action.

Register of Demands is being pulled as the revised version was not included in today's packet. This item will be presented to the Board in June for approval.

Approval of minutes only:

Motion made by Director Sewell, Seconded by Vice President Griffith.
Voting Yea: President Duff, Vice President Griffith, Director Sewell, Director Martin

APPROVAL OF MINUTES
It is recommended to approve the minutes as follows:

April 16, 2026 ~ Study Session
April 20, 2026 ~ Board Meeting

REGISTER OF DEMANDS
The register of demands totaling $3,305,102.63

REPORTS

DIRECTOR'S REPORTS

Director Sewell reported attending the following meetings and events: 4/7 DHS City Council Meeting, 4/21 DHS City Council Meeting, 4/30 RivCo Annual CV Business Conference & Economic Forecast.

Director Martin reported attending the following meetings and events: 4/7 – 4/10 CWEA Annual Conference, 4/15 DVBA Public Officials Luncheon, 4/16 Big Heart Awards, 4/30 RivCo Annual CV Business Conference & Economic Forecast.

Vice President Griffith reported attending the following meetings and events: 4/5 – 4/9 CSDA Legislative Conference, 4/30 RivCo Annual CV Business Conference & Economic Forecast.

President Duff reported attending the following meetings and events: 4/5 – 4/9 CSDA Legislative Conference, 4/16 Big Heart Awards, 4/17 ACWA Legislative Symposium, 4/30 RivCo Annual CV Business Conference & Economic Forecast.

GENERAL MANAGER'S REPORT
Included in this report are the following oral reports:
A. Finance Report
B. Public Affairs Report

District staff provided an update regarding recent theft incidents affecting district property and nearby infrastructure. The Director of Operations Danny Friend reported that, since the last board meeting, two additional fire hydrants had been stolen. Staff also described a break-in at the district's existing solar site, where storage containers and a trailer used by a solar contractor were accessed through cuts made in the fence line. Law enforcement responded quickly after staff suspected an individual was still on site, and a stolen trailer was located shortly thereafter with the assistance of a police drone. The estimated loss associated with the solar site incident was approximately $50,000. Staff coordinated with the contractor and law enforcement to recover the trailer and return it to the site.

Staff further noted that the district has been working with regional partners and law enforcement agencies to share information regarding theft activity affecting utility and solar infrastructure throughout the Coachella Valley. Additional concerns were raised regarding the theft of approximately 6,000 feet of Frontier fiber cable near Long Canyon, where evidence indicated the cable had been forcibly pulled from conduit. Board members expressed concern about the increasing frequency of these incidents and suggested the board consider discussing preventative theft measures in closed session at a future meeting to avoid publicly disclosing security strategies. Staff indicated that a written update would also be included in the following month's report.

COMMENTS

DIRECTOR COMMENTS AND REQUESTS
A. General Comments

Director Martin noted complaints received from his constituents regarding difficulty opening the water bottles.

B. Requests for Future Agenda Items
C. Requests for Future Meetings

ADJOURN
With no further business, President Duff adjourned the meeting at 4:14 PM

Respectfully Submitted,

Dori Petee
Executive Assistant

CHECK NUMBER	CHECK DATE	PAID TO VENDOR	DISBURSEMENT DESCRIPTION	INVOICE AMOUNT	OPERATING	CAPITAL	TOTAL
DFT0000068	5/6/2026	ABC LIOVIN DRILLING INC	RETENTION WIRE PP#1	$7,279.00	$7,279.00		$7,279.00
APA000077	5/21/2026	ACWA JPIA	JUNE HEALTH INSURANCES	$120,119.30	$120,119.30		$120,119.30
76223	5/7/2026	AECOM TECHNICAL SERVICES INC.	PROGRESS PAYMENT #27	$16,603.46		$16,603.46	$16,603.46
DFT0000073	5/14/2026	AFLAC	APRIL 2026 AFLAC DEDUCTIONS	$2,232.92	$2,232.92		$2,232.92
APA000078	5/21/2026	ALBERT A. WEBB ASSOCIATES	Review of Previous PDR & MSWD	$11,933.11	$34,681.83		$34,681.83
APA000078	5/21/2026	ALBERT A. WEBB ASSOCIATES	Review of Previous PDR & MSWD	$11,475.92			
APA000078	5/21/2026	ALBERT A. WEBB ASSOCIATES	Review of Previous PDR & MSWD COMMENTS	$11,272.80			
APA000039	5/14/2026	ALEX ACEVEDO	Dropping off Water Samples to Clinical Laboratory	$49.30	$49.30		$49.30
76224	5/7/2026	ALEX ACEVEDO	WORK BOOTS - ALEX ACEVEDO	$280.13	$280.13		$280.13
APA000040	5/14/2026	AMBER DUFF	A.Duff Mileage Reimbursement April 2026	$778.29	$778.29		$778.29
APA000079	5/21/2026	ANA PATRICIA MURILLO	TUITION REIMBURSEMENT - ANA M.	$1,111.00	$1,111.00		$1,111.00
APA000080	5/21/2026	ANGELICA SANDOVAL	CUSTOMER REFUNDS R051526	$71.62	$71.62		$71.62
APA000041	5/14/2026	ANSAFONE CONTACT CENTERS	ANSAFONE ANSWERING SERVICE	$303.79	$756.42		$756.42
APA000041	5/14/2026	ANSAFONE CONTACT CENTERS	ANSAPHONE ANSWERING SERVICE	$452.63			
APA000042	5/14/2026	ARCARO'S AUTO BODY REPAIR INC	VEHICLE REPAIRS UNIT 450	$1,605.00	$11,094.19		$11,094.19
APA000042	5/14/2026	ARCARO'S AUTO BODY REPAIR INC	VEHICLE REPAIRS UNIT 462	$9,489.19			
76225	5/7/2026	ASTRA INDUSTRIAL SERVICES INC	BACKFLOW REPAIR KITS FOR FIELD SVCS	$216.11	$216.11		$216.11
APA000132	5/28/2026	ATWORK FRANCHISE INC	WWTP OIT TEMP/JONAH T./W.E. 05.17.26	$2,116.80	$2,116.80		$2,116.80
APA000081	5/21/2026	ATWORK FRANCHISE INC	WWTP OIT TEMP - JONAH T./W.E. 05.10.26	$2,116.80	$2,116.80		$2,116.80
APA000043	5/14/2026	ATWORK FRANCHISE INC	WWTP OIT TEMP - JONAH T./W.E. 05.03.26	$2,116.80	$2,116.80		$2,116.80
76226	5/7/2026	ATWORK FRANCHISE INC	WWTP OIT TEMP-JONAH T./W.E. 04.19.26	$1,243.62	$3,360.42		$3,360.42
76226	5/7/2026	ATWORK FRANCHISE INC	WWTP OIT TEMP-JONAH T./W.E. 04.26.26	$2,116.80			
APA000082	5/21/2026	B-81 PAVING INC	PAVING @ 9 LOCATIONS AS IDENTIFIED ON INV.	$13,213.50	$13,213.50		$13,213.50
APA000083	5/21/2026	BABCOCK LABORATORIES INC	65321 TWO BUNCH PALMS TRL. - CULTURE DHS	$448.81	$6,806.38		$6,806.38
APA000083	5/21/2026	BABCOCK LABORATORIES INC	TOTAL N PACKAGE - DESERT CREST EFFLUENT	$113.00			
APA000083	5/21/2026	BABCOCK LABORATORIES INC	65321 TWO BUNCH PALMS TRL. - CULTURE DHS	$429.00			
APA000083	5/21/2026	BABCOCK LABORATORIES INC	TOTAL N PACKAGE - WRIGHT EFFLUENT	$162.00			
APA000083	5/21/2026	BABCOCK LABORATORIES INC	65283 TWO BUNCH PALMS TRL. - CULTURE DHS	$448.81			
APA000083	5/21/2026	BABCOCK LABORATORIES INC	65000 TWO BUNCH PALMS TRL. - JEETER	$448.81			
APA000083	5/21/2026	BABCOCK LABORATORIES INC	TOTAL N PACKAGE - HORTON WELLS & PONDS	$1,015.00			
APA000083	5/21/2026	BABCOCK LABORATORIES INC	TOTAL N PACKAGE - WELL 29 & WELL 37	$406.00			
APA000083	5/21/2026	BABCOCK LABORATORIES INC	WRIGHT GROUNDWATER WELLS E.COLI ANALYSIS	$393.90			
APA000083	5/21/2026	BABCOCK LABORATORIES INC	13310 LITTLE MORONGO RD. - SNIDER LS #3	$448.81			
APA000083	5/21/2026	BABCOCK LABORATORIES INC	TOTAL N PACKAGE - CLARIFIER EFFLUENT	$268.00			
APA000083	5/21/2026	BABCOCK LABORATORIES INC	13310 LITTLE MORONGO RD. - SNIDER LS #1	$448.81			
APA000083	5/21/2026	BABCOCK LABORATORIES INC	6500 TWO BUNCH PALMS TRL. - JEETER	$429.00			
APA000083	5/21/2026	BABCOCK LABORATORIES INC	66100 CABOT RD. - CABOT MANAGEMENT	$448.81			
APA000083	5/21/2026	BABCOCK LABORATORIES INC	13310 LITTLE MORONGO RD. - SNIDER LS #4	$448.81			
APA000083	5/21/2026	BABCOCK LABORATORIES INC	13310 LITTLE MORONGO RD. - SNIDER LS #2	$448.81			
76227	5/7/2026	BABCOCK LABORATORIES INC	TOTAL N PACKAGE - WRIGHT INFLUENT	$162.00	$388.00		$388.00
76227	5/7/2026	BABCOCK LABORATORIES INC	TOTAL N PACKAGE - HORTON EFFLUENT	$113.00			
76227	5/7/2026	BABCOCK LABORATORIES INC	TOTAL N PACKAGE - DESERT CREST EFFLUENT	$113.00			
APA000084	5/21/2026	BECK OIL, INC.	FUEL INVENTORY	$4,869.96	$17,505.51		$17,505.51
APA000084	5/21/2026	BECK OIL, INC.	FUEL INVENTORY	$2,826.64			
APA000084	5/21/2026	BECK OIL, INC.	FUEL INVENTORY	$4,980.45			
APA000084	5/21/2026	BECK OIL, INC.	FUEL INVENTORY	$4,828.46			
APA000133	5/28/2026	BERLINDA BLACKBURN	SERVICES PERFORMED IN APRIL 2026	$15,062.35	$15,062.35		$15,062.35
APA000044	5/14/2026	BEST SIGNS, INC	RESTOCK VINYL MSWD LOGI VEHICLE SIGNS	$489.44	$489.44		$489.44
76228	5/7/2026	BRINKS INCORPORATED	APR 2026 - CIT EXCESS FEE	$135.90	$554.55		$554.55
76228	5/7/2026	BRINKS INCORPORATED	MAY 2026 SERVICES - FLAT FEE	$418.65			
DFT0000083	5/18/2026	CALIF PUBLIC EMPLOYEES RETIREMENT SYSTEM	PERS PPE 05.08.26	$42,020.45	$42,020.45		$42,020.45
DFT0000060	5/4/2026	CALIF PUBLIC EMPLOYEES RETIREMENT SYSTEM	PERS PPE 04.24.26	$41,998.65	$41,998.65		$41,998.65

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APA000134	5/28/2026	CALIFORNIA ASSOCIATION OF SANITATION AGENCIES	CASA CONFERENCE REGISTRATION - RUSS MARTIN	$1,200.00	$2,400.00		$2,400.00
APA000134	5/28/2026	CALIFORNIA ASSOCIATION OF SANITATION AGENCIES	Brian Macy: Registration 2026 CASA Conference	$1,200.00			
APA000045	5/14/2026	CARPI & CLAY. INC	Federal Advocacy April 2026	$5,000.00	$5,000.00		$5,000.00
APA000046	5/14/2026	CASEY DOLAN	Monthly Digital Management and Consulting	$650.00	$650.00		$650.00
76229	5/7/2026	CHARLES JOEL SHAPIRO	CUSTOMER REFUNDS BATCH R050126	$91.50	$91.50		$91.50
APA000047	5/14/2026	CITY OF DESERT HOT SPRINGS	Encroachment Permit	$357.97	$1,073.91		$1,073.91
APA000047	5/14/2026	CITY OF DESERT HOT SPRINGS	Encroachment Permit	$357.97			
APA000047	5/14/2026	CITY OF DESERT HOT SPRINGS	Encroachment Permit	$357.97			
76230	5/7/2026	CITY OF DESERT HOT SPRINGS	MARCH 2026 UUT PAYABLE	$31,903.45	$31,903.45		$31,903.45
APA000048	5/14/2026	CLAIMS MANAGEMENT RESOURCES, INC.	FRONTIER CLAIMS PAYMENT CLAIM #CAFR24316440	$1,218.89	$1,218.89		$1,218.89
APA000135	5/28/2026	CLINICAL LABORATORY OF SAN BERNARDINO	LAB SERVICES FOR SAMPLES 04/2026	$855.00	$855.00		$855.00
APA000085	5/21/2026	CLINICAL LABORATORY OF SAN BERNARDINO	LAB SERVICES FOR SAMPLES 04/2026	$3,176.00	$3,176.00		$3,176.00
APA000086	5/21/2026	CORONA ENVIRONMENTAL CONSULTING LLC	CHROMIUM-6 PDR	$2,990.00		$2,990.00	$2,990.00
APA000049	5/14/2026	COUNTY OF RIVERSIDE	KRANSHIRE ROAD Excavate, Install & Maintain 1" wat	$2,111.00	$2,111.00		$2,111.00
76231	5/7/2026	COUNTY OF RIVERSIDE	MISSION LAKES RESURFACING #D10075 - RIV CO.	$99,302.50	$99,302.50		$99,302.50
76232	5/7/2026	CROSS ROAD CAPITAL GROUP, LLC	CUSTOMER REFUNDS BATCH R050126	$164.00	$164.00		$164.00
76233	5/7/2026	CS-ASSOCIATED MUNICIPAL SALES CORP	APCO REPAIR PARTS HORTON PLANT	$334.06	$334.06		$334.06
APA000050	5/14/2026	CV STRATEGIES	STRATEGIC COMMUNICATIONS SVCS APRIL 2026 (CCR)	$5,000.00	$5,000.00		$5,000.00
APA000087	5/21/2026	CWEA	CWEA Association Membership - JOSEPH M.	$251.00	$251.00		$251.00
APA000088	5/21/2026	CYPRESS DENTAL ADMINISTRATORS	JUNE 2026 DENTAL INSURANCE	$5,797.26	$5,797.26		$5,797.26
APA000089	5/21/2026	DAVID CASTREJON	CUSTOMER REFUNDS R051526	$58.13	$58.13		$58.13
76234	5/7/2026	DESERT PROMOTIONAL AND EMBROIDERY LLC	RESTOCK MSWD CAPS FOR FIELD STAFF	$629.28	$629.28		$629.28
APA000090	5/21/2026	DESERT TIRE AND AUTO REPAIR	TIRE DISPOSAL UNIT 447	$7.61	$7.61		$7.61
76235	5/7/2026	DESERT TIRE AND AUTO REPAIR	REPLACEMENT TIRES UNIT #428	$1,065.01	$1,065.01		$1,065.01
APA000091	5/21/2026	DESERT URGENT CARE	12831880 ANDRADE, RICHARD 80305 DRUG TEST.	$35.00	$35.00		$35.00
APA000092	5/21/2026	DESERT VALLEY DISPOSAL, INC.	WRIGHT PLANT APRIL SERVICE CHARGES	$319.69	$1,766.19		$1,766.19
APA000092	5/21/2026	DESERT VALLEY DISPOSAL, INC.	ADMIN BUILDING ARPIL SERVICE CHARGE	$588.73			
APA000092	5/21/2026	DESERT VALLEY DISPOSAL, INC.	CORP YARD APRIL SERVICE CHARGE	$857.77			
APA000093	5/21/2026	DESERT WATER AGENCY	DWA RAC FEES - MAIN SYSTEM	$402,812.45	$402,812.45		$402,812.45
APA000051	5/14/2026	DESERT WATER AGENCY	DWA RAC FEES - DE-E SYSTEM	$8,149.48	$8,149.48		$8,149.48
76236	5/7/2026	DIANE N NELSON	CUSTOMER REFUNDS BATCH R050126	$265.08	$265.08		$265.08
76237	5/7/2026	DOWN TO EARTH LAND CLEARING SOLUTION, INC.	CUSTOMER REFUNDS BATCH R050126	$414.30	$414.30		$414.30
APA000136	5/28/2026	ECOLOGY AUTO PARTS	SLUDGE HAULING - TRACTOR UNIT	$3,000.00	$10,000.00		$10,000.00
APA000136	5/28/2026	ECOLOGY AUTO PARTS	SLUDGE HAULING - TRACTOR UNIT	$3,000.00			
APA000136	5/28/2026	ECOLOGY AUTO PARTS	SLUDGE HAULING - BELT TRAILER	$2,000.00			
APA000136	5/28/2026	ECOLOGY AUTO PARTS	SLUDGE HAULING - BELT TRAILER	$2,000.00			
APA000094	5/21/2026	ECOLOGY AUTO PARTS	SLUDGE HAULING - 2 LOADS/W.E. 05.01.26	$2,878.64	$4,966.56		$4,966.56
APA000094	5/21/2026	ECOLOGY AUTO PARTS	SLUDGE HAULING - 1 LOAD/W.E. 05.01.2026	$2,087.92			
APA000052	5/14/2026	ECOLOGY AUTO PARTS	SLUDGE HAULING - 1 LOAD/W.E. 03.27.26	$2,226.73	$35,519.04		$35,519.04
APA000052	5/14/2026	ECOLOGY AUTO PARTS	SLUDGE HAULING - 2 LOADS/W.E. 04.03.26	$3,299.51			
APA000052	5/14/2026	ECOLOGY AUTO PARTS	SLUDGE HAULING	$4,455.62			
APA000052	5/14/2026	ECOLOGY AUTO PARTS	SLUDGE HAULING	$2,096.73			
APA000052	5/14/2026	ECOLOGY AUTO PARTS	SLUDGE HAULING	$2,878.16			
APA000052	5/14/2026	ECOLOGY AUTO PARTS	SLUDGE HAULING	$7,313.73			
APA000052	5/14/2026	ECOLOGY AUTO PARTS	SLUDGE HAULING - 5 LOAD/W. E 04.17.26	$7,426.40			
APA000052	5/14/2026	ECOLOGY AUTO PARTS	SLUDGE HAULING	$5,822.16			
76238	5/7/2026	EDOM HILL TRANSFER STATION	DUMP FEE CLEAN UP MSWD LOT GRANADA VERBENA	$217.30	$650.36		$650.36
76238	5/7/2026	EDOM HILL TRANSFER STATION	DUMP FEE CLEAN UP MSWD LOT GRANADA VERBENA	$334.26			
76238	5/7/2026	EDOM HILL TRANSFER STATION	DUMP FEE CLEAN UP MSWD LOT GRANADA VERBENA	$98.80			
9900029	5/29/2026	EFTPS-IRS PAYROLL TAX REMITTANCE	FEDERAL WITHHOLDINGS	$65,221.03	$65,221.03		$65,221.03
DFT0000077	5/15/2026	EFTPS-IRS PAYROLL TAX REMITTANCE	FED TAX PPE 05.08.26	$65,076.64	$65,076.64		$65,076.64
DFT0000058	5/1/2026	EFTPS-IRS PAYROLL TAX REMITTANCE	FED TAXES PPE 04.24.26	$62,112.85	$62,112.85		$62,112.85

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APA000053	5/14/2026	ENTERPRISE FM TRUST	ENTERPRISE FLEET MANAGEMENT 05/2026	$33,183.73	$33,183.73		$33,183.73
APA000095	5/21/2026	ENVIROGEN TECHNOLOGIES INC	WELL 26A URANIUM TREATMENT	$4,179.72	$4,179.72		$4,179.72
76239	5/7/2026	ENVIROGEN TECHNOLOGIES INC	WELL 26A URANIUM TREATMENT	$4,274.10	$4,274.10		$4,274.10
76240	5/7/2026	ESRI INC.	ENTERPRISE AGREEMENT FEE	$23,700.00	$26,700.00		$26,700.00
76240	5/7/2026	ESRI INC.	ARCGIS ENTERPRISE MOBILE WORKER ANNUALSUBCSRIP	$3,000.00			
APA000096	5/21/2026	EXECUTIVE FACILITIES SERVICES INC	Janitorial Services for the month of April 2026	$2,831.44	$2,831.44		$2,831.44
APA000097	5/21/2026	FORSHOCK	SCADA MONITORING 05/2026	$314.00	$474.00		$474.00
APA000097	5/21/2026	FORSHOCK	SCADA MONITORING 05/2026	$160.00			
APA000098	5/21/2026	FRANCES R GRIFFITH	CUSTOMER REFUNDS R051526	$64.93	$64.93		$64.93
76241	5/7/2026	FRANCISCO GALINDO	CUSTOMER REFUNDS BATCH R050126	$48.00	$48.00		$48.00
APA000099	5/21/2026	GRAINGER	PARK STOPS HORTON PLANT	$529.53	$9,927.81		$9,927.81
APA000099	5/21/2026	GRAINGER	MOLDED GRATING. SPAN 10 FT. MANUFACTURER # 264407	$4,502.08			
APA000099	5/21/2026	GRAINGER	MOLDED GRATING. SPAN 10 FT. MANUFACTURER # 264407	$4,502.08			
APA000099	5/21/2026	GRAINGER	MATERIAL FOR WRIGHT PLANT	$117.66			
APA000099	5/21/2026	GRAINGER	MATERIAL FOR WRIGHT PLANT	$276.46			
76242	5/7/2026	GRAINGER	BACKFLOW PREVENTER REPAIR KIT	$156.12	$5,609.20		$5,609.20
76242	5/7/2026	GRAINGER	SAFETY SIGNS WASTE WATER	$259.94			
76242	5/7/2026	GRAINGER	CLOCK STYLE BATTERY HORTON PLANT	$152.29			
76242	5/7/2026	GRAINGER	20FT FLOAT SWITCH HORTON PLANT	$538.77			
76242	5/7/2026	GRAINGER	MOLDED GRATING HORTON PLANT	$4,502.08			
APA000137	5/28/2026	HANSEN ALLEN AND LUCE INC	CONSULTING SERVICES_ENGINEERING_HORTON WTP	$2,363.25	$2,363.25		$2,363.25
9900007	5/26/2026	HOME DEPOT CREDIT SERVICES	HOME DEPOT MAY 2026 STATEMENT	$10,757.74	$10,757.74		$10,757.74
APA000138	5/28/2026	INFOSEND INC	ANNUAL SEWER LETTER 2026 PRINT AND MAILING SERVIC	$7,093.14	$7,093.14		$7,093.14
APA000100	5/21/2026	INFOSEND INC	MAY 2026 BILLING INFOSEND	$5,762.73	$5,762.73		$5,762.73
APA000054	5/14/2026	INFOSEND INC	DC MANUAL-INSERTS: March Newsletter	$1,337.51	$7,984.69		$7,984.69
APA000054	5/14/2026	INFOSEND INC	APRIL 2026 INFOSEND BILLING	$6,647.18			
APA000139	5/28/2026	INTEGRITY MUNICIPAL SYSTEMS LLC	ODOR CONTROL MEDIA REPLACEMENT	$8,296.75	$8,296.75		$8,296.75
APA000101	5/21/2026	IRIS GROUP HOLDINGS LLC DB	ADMIN. BLDG. - SECURITY ALARM	$76.99	$818.56		$818.56
APA000101	5/21/2026	IRIS GROUP HOLDINGS LLC DB	ADMIN. BLDG. - SECURITY ALARM	$89.82			
APA000101	5/21/2026	IRIS GROUP HOLDINGS LLC DB	ADMIN. BLDG. - SECURITY ALARM	$79.56			
APA000101	5/21/2026	IRIS GROUP HOLDINGS LLC DB	ADMIN. BLDG. - SECURITY ALARM	$76.99			
APA000101	5/21/2026	IRIS GROUP HOLDINGS LLC DB	CORP. YARD - SECURITY ALARM	$109.07			
APA000101	5/21/2026	IRIS GROUP HOLDINGS LLC DB	ADMIN. BLDG. - SECURITY ALARM	$89.82			
APA000101	5/21/2026	IRIS GROUP HOLDINGS LLC DB	ADMIN. BLDG. - SECURITY ALARM	$79.56			
APA000101	5/21/2026	IRIS GROUP HOLDINGS LLC DB	CORP. YARD - SECURITY ALARM	$109.07			
APA000101	5/21/2026	IRIS GROUP HOLDINGS LLC DB	CORP. YARD - SECURITY ALARM	$53.84			
APA000101	5/21/2026	IRIS GROUP HOLDINGS LLC DB	CORP YARD - SECURITY ALARM	$53.84			
APA000102	5/21/2026	IVAN SEWELL	ACWA CONFERENCE HOTEL STAY - REIMB. I.SEWELL	$819.57	$819.57		$819.57
APA000055	5/14/2026	IVAN SEWELL	MILEAGE REIMBURSEMENT - APRIL 2026 IVAN SEWELL	$39.88	$39.88		$39.88
APA000103	5/21/2026	JACQUELINE BLANCHARD	CUSTOMER REFUNDS R051526	$37.47	$37.47		$37.47
76243	5/7/2026	JARROD DAVIS	CUSTOMER REFUNDS BATCH R050126	$62.32	$62.32		$62.32
76244	5/7/2026	JEANETTE THURMAN	CUSTOMER REFUNDS BATCH R050126	$0.79	$0.79		$0.79
76245	5/7/2026	JENNIFER R MAEL	FIRE FLOW TESTS 4/2026	$1,800.00	$5,400.00		$5,400.00
76245	5/7/2026	JENNIFER R MAEL	FIRE FLOW TESTS 3/2026	$3,600.00			
APA000104	5/21/2026	JESUS GUERRERO ESPINDOLA	CUSTOMER REFUNDS R051526	$82.00	$82.00		$82.00
APA000056	5/14/2026	JESUS MARTINEZ	CUSTOMER REFUNDS BATCH R041726	$14.95	$14.95		$14.95
APA000105	5/21/2026	JOSE URBINA JURADO	CUSTOMER REFUNDS R051526	$155.31	$155.31		$155.31
APA000057	5/14/2026	JOSEPH MCELRONE	BOOT REIMBURSEMENT	$300.00	$300.00		$300.00
76246	5/7/2026	KENNETH E RUDE	CUSTOMER REFUNDS BATCH R050126	$71.23	$71.23		$71.23
76247	5/7/2026	KENWOOD ENERGY	KENWOOD ENERGY MARCH 2026 CHARGES	$11,192.50	$11,192.50		$11,192.50
76248	5/7/2026	KILLER BEE PEST CONTROL	BEEHIVE REMOVAL @ 64920 DESERT AIR CT.	$100.00	$290.00		$290.00
76248	5/7/2026	KILLER BEE PEST CONTROL	BEEHIVE REMOVAL @ 64658 PINEHURST CT.	$95.00			

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76248	5/7/2026	KILLER BEE PEST CONTROL	BEEHIVE REMOVAL @ 66221 4TH ST.	$95.00			
APA000106	5/21/2026	KYLE GROUNDWATER, INC.	WELL 28 HYDRO. SUPPORT SERVICES	$26,001.25		$26,001.25	$26,001.25
APA000107	5/21/2026	L O LYNCH QUALITY WELLS & PUMPS INC	PROGRESS PAYMENT #5 FINAL WELL 27 REHAB	$44,950.00	$46,550.00		$46,550.00
APA000107	5/21/2026	L O LYNCH QUALITY WELLS & PUMPS INC	PROGRESS PAYMENT #3 WELL 27 REHAB	$1,600.00			
76249	5/7/2026	LANDMARK CONSULTANTS INC	PROFESSIONAL SVCS 3/2026	$1,219.00	$1,219.00		$1,219.00
DFT0000081	5/18/2026	LINCOLN NATIONAL LIFE INS CO	DEF COMP PPE 05.08.26	$16,984.33	$16,984.33		$16,984.33
DFT0000059	5/4/2026	LINCOLN NATIONAL LIFE INS CO	DEF COMP PPE 04.24.26	$16,556.45	$16,556.45		$16,556.45
76250	5/7/2026	LLOYD CROWE	CUSTOMER REFUNDS BATCH R050126	$59.15	$59.15		$59.15
APA000140	5/28/2026	MANPOWER US INC.	PAYROLL TECH TEMP WK. END. 05.17.26	$2,033.60	$2,033.60		$2,033.60
APA000058	5/14/2026	MANPOWER US INC.	PAYROLL TECH TEMP WK. END. 01.25.26	$1,626.88	$7,727.68		$7,727.68
APA000058	5/14/2026	MANPOWER US INC.	PAYROLL TECH TEMP WK END 03.22.26	$2,033.60			
APA000058	5/14/2026	MANPOWER US INC.	PAYROLL TECH TEMP WK. END. 05.10.26	$2,033.60			
APA000058	5/14/2026	MANPOWER US INC.	PAYROLL TECH TEMP WK. END. 05.03.26	$2,033.60			
76251	5/7/2026	MANPOWER US INC.	PAYROLL TECH TEMP WK. END. 04.26.26	$1,626.88	$1,626.88		$1,626.88
76252	5/7/2026	MARJORIE TALLARITA	CUSTOMER REFUNDS BATCH R050126	$54.72	$54.72		$54.72
APA000059	5/14/2026	MARK VERMEER	BOOT REIMBURSEMENT	$163.11	$163.11		$163.11
APA000141	5/28/2026	MCMASTER-CARR	Pressure-Regulating Valve for Water, Oil, Air, Gas	$353.02	$353.02		$353.02
APA000108	5/21/2026	MCMASTER-CARR	REPLACEMENT PADLOCKS - N/I BRASS FITTINGS	$577.27	$577.27		$577.27
76253	5/7/2026	MCMASTER-CARR	STAINLESS STEEL REPAIR FITTINGS WTR PRODUCTION	$486.56	$3,865.44		$3,865.44
76253	5/7/2026	MCMASTER-CARR	THICK-WALL PVC N/I FITTINGS WTR PRODUCTION	$353.64			
76253	5/7/2026	MCMASTER-CARR	BRASS FITTING FOR WTR PRODUCTION N/I	$780.51			
76253	5/7/2026	MCMASTER-CARR	INVENTORY	$2,244.73			
76254	5/7/2026	MDN WATER MANAGEMENT SERVICES INC	MDN WATER MANAGEMENT SERVICES 03/2026	$11,115.50	$5,499.00	$ 5,616.50	$11,115.50
76255	5/7/2026	MELISSA SOLANO	CUSTOMER REFUNDS BATCH R050126	$129.30	$129.30		$129.30
76256	5/7/2026	MILLER EQUIPMENT COMPANY, INC.	CUSTOMER REFUNDS BATCH R050126	$600.59	$600.59		$600.59
APA000109	5/21/2026	MORGAN COMPANY	REPLACEMENT CABLE FOR CRANE UNIT 465	$277.76	$8,855.26		$8,855.26
APA000109	5/21/2026	MORGAN COMPANY	CRANE INSTALLATION UNIT 464	$8,577.50			
76257	5/7/2026	MORGAN COMPANY	CRANE INSTALL UNIT 466	$8,766.06	$8,766.06		$8,766.06
APA000060	5/14/2026	MOTION INDUSTRIES, INC.	REPLACEMENT MOTORS FOR SERPENTEX CONVEYOR	$2,246.37		$2,246.37	$2,246.37
APA000110	5/21/2026	MYRA JONES	CUSTOMER REFUNDS R051526	$180.20	$180.20		$180.20
76258	5/7/2026	NAPA AUTO PARTS	INDENTIFICATION BAR KIT UNIT #389	$78.65	$78.65		$78.65
APA000111	5/21/2026	O'REILLY AUTOMOTIVE INC.	REPLACEMENT BULB UNIT 389	$10.16	$381.27		$381.27
APA000111	5/21/2026	O'REILLY AUTOMOTIVE INC.	OIL/FILTER CHANGE UNIT 435	$45.63			
APA000111	5/21/2026	O'REILLY AUTOMOTIVE INC.	MULTI PURPOSE GREASE FOR SHOP	$80.03			
APA000111	5/21/2026	O'REILLY AUTOMOTIVE INC.	MP GREASE FOR SHOP	$8.30			
APA000111	5/21/2026	O'REILLY AUTOMOTIVE INC.	OIL/ FILTER/ WIPER BLADE CHANGE UNIT 437	$76.96			
APA000111	5/21/2026	O'REILLY AUTOMOTIVE INC.	OIL/FILTER/ANTIFREEZE FOR UNIT 429	$91.20			
APA000111	5/21/2026	O'REILLY AUTOMOTIVE INC.	CABIN FILTER 1Y EA Y	$68.99			
APA000061	5/14/2026	O'REILLY AUTOMOTIVE INC.	LIFT SUPPORT UNIT 414	$43.13	$225.08		$225.08
APA000061	5/14/2026	O'REILLY AUTOMOTIVE INC.	OIL/FILTER CHANGE UNIT 421	$69.99			
APA000061	5/14/2026	O'REILLY AUTOMOTIVE INC.	HYDRAULIC FLUID FOR FLEET & UNIT 362	$81.55			
APA000061	5/14/2026	O'REILLY AUTOMOTIVE INC.	RESTOCK CAR WASH SOAP CORP YARD	$30.41			
76259	5/7/2026	O'REILLY AUTOMOTIVE INC.	OIL/FILTER CHANGE UNIT 462	$47.47	$284.88		$284.88
76259	5/7/2026	O'REILLY AUTOMOTIVE INC.	OIL/FILTER CHANGE UNIT 460	$80.49			
76259	5/7/2026	O'REILLY AUTOMOTIVE INC.	FILTER & WIPER FLUID UNIT 462	$33.59			
76259	5/7/2026	O'REILLY AUTOMOTIVE INC.	OIL/FILTER CHANGE UNITS 456 & 458	$123.33			
APA000112	5/21/2026	PARKERS BUILDING SUPPLY	THREAD SEAL TAPE, PIPES & SANDCLOTH FOR REPAIR	$48.55	$515.89		$515.89
APA000112	5/21/2026	PARKERS BUILDING SUPPLY	GRTW16312EAR GRIP-RITE TW16312EAR 16GA REBAR TIE	$30.63			
APA000112	5/21/2026	PARKERS BUILDING SUPPLY	FUEL CAN FOR WELL 28	$89.69			
APA000112	5/21/2026	PARKERS BUILDING SUPPLY	SOLAR LIGHTS FOR WARNING SIGNS	$31.27			
APA000112	5/21/2026	PARKERS BUILDING SUPPLY	GALVANIZED PIPE FITTINGS FOR VISTA BOOSTER PUMP	$13.58			
APA000112	5/21/2026	PARKERS BUILDING SUPPLY	GRINDER, FLAP DISC, FASTENERS FOR SHOP	$188.63			

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APA000112	5/21/2026	PARKERS BUILDING SUPPLY	REPAIR MATERIALS FOR WELL 37	$41.82			
APA000112	5/21/2026	PARKERS BUILDING SUPPLY	SOLDERING KIT & SCREWS FOR SHOP	$66.84			
APA000112	5/21/2026	PARKERS BUILDING SUPPLY	REPAIR MATERIAL WRIGHT PLANT	$4.88			
APA000062	5/14/2026	PARKERS BUILDING SUPPLY	RESTOCK PALLET 60 LB BAGS QUICKRETE X 56	$272.83	$339.90		$339.90
APA000062	5/14/2026	PARKERS BUILDING SUPPLY	DIL2896091 DIAL 2896091 SOAP HAND PUMP WHITE TEA 1	$52.11			
APA000062	5/14/2026	PARKERS BUILDING SUPPLY	PRS11A14G PROSOURCE 11A-1/4G 1/4" GALVANIZED PIPE	$5.21			
APA000062	5/14/2026	PARKERS BUILDING SUPPLY	PLASTIC CABLE CLAMPS FOR FLEET	$9.75			
76260	5/7/2026	PARKERS BUILDING SUPPLY	FLAGPOLE REPAIR SUPPLIES -ADMIN. BLDG.	$5.21	$39.98		$39.98
76260	5/7/2026	PARKERS BUILDING SUPPLY	SILICONE SEALANT TO SECURE BIRD CONTROL SPIKES	$26.08			
76260	5/7/2026	PARKERS BUILDING SUPPLY	MATERIALS FOR NEW PUMP INSTALLATION-VISTA BOOSTE	$8.69			
76261	5/7/2026	PARKHOUSE TIRE SERVICE INC	FRONT REPLACEMENT - SKIP LOADER	$591.62	$591.62		$591.62
9900000	5/19/2026	PAYMENTUS CORPORATION	Payment Processing Transaction Fees For April 2026	$2,906.45	$2,906.45		$2,906.45
DFT0000066	5/6/2026	PAYNEARME MT, INC.	APRIL 2026 PAYNEARME FEES	$10,117.69	$10,117.69		$10,117.69
APA000063	5/14/2026	PLATINUM STRATEGIES INC	APRIL 2026 CONSULTANT SERVICES - TYLER REVIEW	$6,701.91	$7,205.35		$7,205.35
APA000063	5/14/2026	PLATINUM STRATEGIES INC	APRIL 2026 ACCOUNTING CONSULTANT	$503.44			
APA000142	5/28/2026	PLUMBERS DEPOT INC	REPLACEMENT 800' JETTING HOSE FOR GAPVAX	$2,959.03	$7,002.56		$7,002.56
APA000142	5/28/2026	PLUMBERS DEPOT INC	POLE HOOKS FOR DEBRIS/RAG REMOVAL IN TANKS	$4,043.53			
APA000113	5/21/2026	POLLARDWATER	UNIV BREAKAWAY P/LOCK HYD MTR LCK rlopez@mswd.org	$473.06	$2,408.81		$2,408.81
APA000113	5/21/2026	POLLARDWATER	55# VITA-D CHLOR NEUTRAL rlopez@mswd.org FEG 39980	$1,935.75			
76262	5/7/2026	PROVOST & PRITCHARD ENGINE	PEER REVIEW OF DRAFT WSA/WSV	$990.00	$2,197.00		$2,197.00
76262	5/7/2026	PROVOST & PRITCHARD ENGINE	PROFESSIONAL SVCS 1/2026	$1,207.00			
9900004	5/26/2026	QUADIENT FINANCE USA, INC.	LEASE PMT JUNE-SEPT 2026 HAND CHECK	$650.58	$650.58		$650.58
9900024	5/26/2026	QUADIENT FINANCE USA, INC.	POSTAGE APRIL & MAY 2026	$1,629.41	$1,629.41		$1,629.41
APA000114	5/21/2026	RAFTELIS FINANCIAL CONSULTANTS INC	PROFESSIONAL SERVICES MARCH & APRIL 2026	$10,206.25	$10,206.25		$10,206.25
APA000115	5/21/2026	RAY LOPEZ ASSOCIATES	CONSERVATION SERVICES 04/01/26-04/30/2026	$11,200.00	$11,200.00		$11,200.00
DFT0000071	5/15/2026	RIVERSIDE COUNTY DCSS - MAIN OFFICE	MONTHLY IWO - PPE 05.08.26	$400.00	$400.00		$400.00
76263	5/7/2026	ROBERT G MODRICH	APRIL 2026 UNIDATA SUPPORT	$4,039.50	$4,039.50		$4,039.50
APA000064	5/14/2026	ROBERT GRIFFITH	R.GRIFFITHMILEAGE4.30.26	$43.50	$43.50		$43.50
76264	5/7/2026	ROBERT TINDALL	CUSTOMER REFUNDS BATCH R050126	$35.48	$35.48		$35.48
APA000116	5/21/2026	ROLAND BARNETT	CUSTOMER REFUNDS R051526	$128.64	$128.64		$128.64
APA000117	5/21/2026	RUBEN ARCINIEGA	CUSTOMER REFUNDS R051526	$119.43	$119.43		$119.43
APA000118	5/21/2026	RUSS MARTIN	PER DIEM REIMBURSEMENTS R.MARTIN ACWA CONFEREN	$78.41	$78.41		$78.41
APA000065	5/14/2026	RUSS MARTIN	R.Martin Mileage Reimbursement April 2026	$777.93	$777.93		$777.93
APA000119	5/21/2026	RUTH RAMIREZ	CUSTOMER REFUNDS R051526	$43.85	$43.85		$43.85
APA000120	5/21/2026	SARAH DIAZ	CUSTOMER REFUNDS R051526	$149.83	$149.83		$149.83
APA000066	5/14/2026	SHERWIN-WILLIAMS	RESTOCK SAFETY YELLOW GREEN GALLON PAINT	$347.59	$463.29		$463.29
APA000066	5/14/2026	SHERWIN-WILLIAMS	RESTOCK TAN GALLON PAINT	$115.70			
APA000067	5/14/2026	SILLERS INSTITUTE INC	CDL TRUCKING SCHOOL CLASS A - MATTHEW Z.	$5,000.00	$5,000.00		$5,000.00
APA000068	5/14/2026	SLOVAK BARON EMPEY MURPHY & PINKNEY LLP	LEGAL SERVICES - OVER RETAINER	$37,339.25	$45,477.08		$45,477.08
APA000068	5/14/2026	SLOVAK BARON EMPEY MURPHY & PINKNEY LLP	LEGAL SVCS - LABOR ISSUES	$1,020.00			
APA000068	5/14/2026	SLOVAK BARON EMPEY MURPHY & PINKNEY LLP	LEGAL SERVICES - LAKEVIEW LOAN	$244.50			
APA000068	5/14/2026	SLOVAK BARON EMPEY MURPHY & PINKNEY LLP	LEGAL SERVICES - RETAINER	$6,588.33			
APA000068	5/14/2026	SLOVAK BARON EMPEY MURPHY & PINKNEY LLP	LEGAL SERVICES - LAKEVIEW - BOWMAN	$285.00			
APA000069	5/14/2026	SOUTH COAST AIR QUALITY	AQMD HOT SPOTS FEE - D.P.L.S.	$172.49	$344.98		$344.98
APA000069	5/14/2026	SOUTH COAST AIR QUALITY	AQMD HOT SPOTS FEE - HORTON	$172.49			
9900043	5/28/2026	SOUTHERN CALIFORNIA EDISON COMPANY	301-8247 05.14.2026 AUTOPAY	$2,435.25	$2,435.25		$2,435.25
9900003	5/22/2026	SOUTHERN CALIFORNIA EDISON COMPANY	301-7080 05.04.26 AUTOPAY	$336.53	$336.53		$336.53
9900001	5/19/2026	SOUTHERN CALIFORNIA EDISON COMPANY	301-4547 05.04.2026 AUTOPAY	$18,623.35	$18,623.35		$18,623.35
9900006	5/13/2026	SOUTHERN CALIFORNIA EDISON COMPANY	SCE 201-6334 AUTOPAY	$124,338.50	$124,338.50		$124,338.50
DFT0000064	5/4/2026	SOUTHERN CALIFORNIA EDISON COMPANY	101-3084 04.20.26 AUTOPAY	$3,585.89	$3,585.89		$3,585.89
DFT0000065	5/4/2026	SOUTHERN CALIFORNIA EDISON COMPANY	301-8491 04.21.26 AUTOPAY	$9,734.28	$9,734.28		$9,734.28
APA000121	5/21/2026	STAPLES	RESTOCK SHIPPING CABLES FOR LISA PELTON	$88.72	$88.72		$88.72

CHECK NUMBER	CHECK DATE	PAID TO VENDOR	DISBURSEMENT DESCRIPTION	INVOICE AMOUNT	OPERATING	CAPITAL	TOTAL
APA000070	5/14/2026	STAPLES	STOCK OFFICE SUPPLIES ADMIN BUILDING	$691.68	$1,033.04		$1,033.04
APA000070	5/14/2026	STAPLES	REPLACEMENT INK TONERS	$341.36			
76265	5/7/2026	STAPLES	RESTOCK SUPPLIES FOR ADMIN BUILDING	$694.76	$803.50		$803.50
76265	5/7/2026	STAPLES	REPLACEMENT ERGO TRACKBALL MOUSE FOR ACCOUNTI	$108.74			
9900031	5/29/2026	STATE OF CA EDD	STATE TAXES	$14,762.71	$14,762.71		$14,762.71
DFT0000075	5/15/2026	STATE OF CA EDD	STATE TAX PPE 05.08.26	$14,500.29	$14,500.29		$14,500.29
DFT0000057	5/1/2026	STATE OF CA EDD	STATE TAXES PPE 04.24.26	$14,223.54	$14,223.54		$14,223.54
APA000122	5/21/2026	STEPHANIE DELGADILLO	CUSTOMER REFUNDS R051526	$68.22	$68.22		$68.22
76266	5/7/2026	T4 SPATIAL, LLC	CCTV STORAGE - MAY 2026	$1,250.00	$2,500.00		$2,500.00
76266	5/7/2026	T4 SPATIAL, LLC	CCTV STORAGE - APRIL 2026	$1,250.00			
APA000123	5/21/2026	TAMICA FOOTS-RACHAL	CUSTOMER REFUNDS R051526	$63.30	$63.30		$63.30
APA000143	5/28/2026	THE LAMAR COMPANIES	BILLBOARD RENEWAL PALM/DILLON	$1,000.00	$1,000.00		$1,000.00
APA000071	5/14/2026	THE LINCOLN NATL. LIFE INS. CO.	JUNE 2026 LIFE INSURANCES	$5,038.31	$5,038.31		$5,038.31
APA000144	5/28/2026	TIMMONS GROUP INC	CITY WORKS IMPLEMENTATION	$5,252.35		$5,252.35	$5,252.35
76267	5/7/2026	TKE ENGINEERING, INC	PROJ 110 (FY25-26) GENERAL ENGINEERING SVCS	$15,140.00	$16,782.50	$1,692.50	$18,475.00
76267	5/7/2026	TKE ENGINEERING, INC	RWRF PHASE II & III	$990.00			
76267	5/7/2026	TKE ENGINEERING, INC	DESIGN CONSULTANT MARCH 2026	$1,692.50			
76267	5/7/2026	TKE ENGINEERING, INC	PROJ 110-102 ENGINEERING TEMP STAFF AUGMENTATION	$652.50			
APA000145	5/28/2026	TOM DODSON & ASSOCIATES	CEQA Support	$7,410.08	$7,410.08		$7,410.08
APA000124	5/21/2026	TOM PONTON INDUSTRIES, INC.	REPLACEMENT LEVEL TRANSDUCERS	$4,798.05	$4,798.05		$4,798.05
APA000072	5/14/2026	TOPS N BARRICADES, INC	TAPE CONSPICTY HI RED/SILVER	$337.07	$337.07		$337.07
APA000125	5/21/2026	TYLER TECHNOLOGIES INC	ERP PRO 10 - GO LIVE ASSISTANCE HRM	$145.00		$4,237.00	$4,237.00
APA000125	5/21/2026	TYLER TECHNOLOGIES INC	ERP PRO 10 - GO LIVE ASSISTANCE	$1,750.00			
APA000125	5/21/2026	TYLER TECHNOLOGIES INC	Tyler University 07/01/26 - 06/30/27	$2,342.00			
76268	5/7/2026	ULTIMATE MOTORS INC.	A/C REPAIRS FOR UNIT 420	$1,534.27	$1,534.27		$1,534.27
APA000073	5/14/2026	UNDERGROUND SERVICE ALERT	UNDERGROUND SERVICE ALERTS 05/2026	$306.70	$306.70		$306.70
APA000126	5/21/2026	URBAN HABITAT	LANDSCAPE SERVICES 04/2026	$6,195.00	$6,195.00		$6,195.00
APA000127	5/21/2026	USA BLUEBOOK	Repair Kit PVDF/FKM/CER Repair Kit PVDF/FKM/CER	$4,308.14	$4,308.14		$4,308.14
76269	5/7/2026	USA BLUEBOOK	GRUNDFOS PUMP WTR PRODUCTION	$3,097.42	$9,560.34		$9,560.34
76269	5/7/2026	USA BLUEBOOK	TOTAL NITROGEN HR 5-40 HORTON PLANT	$278.95			
76269	5/7/2026	USA BLUEBOOK	DPD DISPENSERS FOR WTR PRODUCTION	$2,091.05			
76269	5/7/2026	USA BLUEBOOK	LD O2 SENSOR + ADAPTER HORTON PLANT	$3,644.88			
76269	5/7/2026	USA BLUEBOOK	SOLINST CABLE ASSEMBLY HORTON PLANT	$448.04			
9900016	5/29/2026	USDA RURAL DEVELOPMENT	Water & Env. Programs - Principal+Interest	$205,826.76	$205,826.76		$205,826.76
APA000074	5/14/2026	VERIZON CONNECT FLEET USA	GPS MONITORING FOR FLEET 05/2026	$607.90	$607.90		$607.90
APA000128	5/21/2026	VESTIS SERVICES INC	UNIFORM SERVICES 05.14.26	$563.46	$563.46		$563.46
APA000075	5/14/2026	VESTIS SERVICES INC	UNIFORM SERVICES 04.16.26	$402.69	$1,594.05		$1,594.05
APA000075	5/14/2026	VESTIS SERVICES INC	UNIFORM SERVICES 05.07.26	$629.56			
APA000075	5/14/2026	VESTIS SERVICES INC	UNIFORM SERVICES 04.30.26	$561.80			
76270	5/7/2026	VESTIS SERVICES INC	CREDIT MEMO FOR INV. 5881181368	($845.00)	$8.11		$8.11
76270	5/7/2026	VESTIS SERVICES INC	UNIFORM SERVICES 04.23.26	$437.44			
76270	5/7/2026	VESTIS SERVICES INC	UNIFORM SERVICES 04.09.26	$415.67			
APA000146	5/28/2026	WATERLINE TECHNOLOGIES INC	10-2005 8.00 8.00 UN1791 HYPOCHLORITE SOLUTION 53	$1,974.90	$11,993.93		$11,993.93
APA000146	5/28/2026	WATERLINE TECHNOLOGIES INC	10-2005 1.00 10.00 UN1791 HYPOCHLORITE SOLUTION 53	$2,468.63			
APA000146	5/28/2026	WATERLINE TECHNOLOGIES INC	10-2005 1.00 6.00 UN1791 HYPOCHLORITE SOLUTION 53	$1,481.18			
APA000146	5/28/2026	WATERLINE TECHNOLOGIES INC	10-2005 1.00 9.00 UN1791 HYPOCHLORITE SOLUTION 53	$2,221.76			
APA000146	5/28/2026	WATERLINE TECHNOLOGIES INC	10-2005 1.00 9.00 UN1791 HYPOCHLORITE SOLUTION 53	$2,221.76			
APA000146	5/28/2026	WATERLINE TECHNOLOGIES INC	10-2007 10.00 UN1791, HYPOCHLORITE SOLUTIONS, 8, P	$1,625.70			
APA000129	5/21/2026	WATERLINE TECHNOLOGIES INC	10-2005 1.00 7.00 UN1791 HYPOCHLORITE SOLUTION 53	$1,728.04	$7,652.74		$7,652.74
APA000129	5/21/2026	WATERLINE TECHNOLOGIES INC	10-2005 8.00 8.00 UN1791 HYPOCHLORITE SOLUTION 53	$1,974.90			
APA000129	5/21/2026	WATERLINE TECHNOLOGIES INC	10-2005 1.00 9.00 UN1791 HYPOCHLORITE SOLUTION 53	$2,221.76			
APA000129	5/21/2026	WATERLINE TECHNOLOGIES INC	10-2005 1.00 7.00 UN1791 HYPOCHLORITE SOLUTION 53	$1,728.04			

CHECK NUMBER	CHECK DATE	PAID TO VENDOR	DISBURSEMENT DESCRIPTION	INVOICE AMOUNT	OPERATING	CAPITAL	TOTAL
9900026	5/29/2026	WELLS FARGO - WELLSONE	APRIL 2026 CREDIT CARD BILLING PERIOD	$40,955.92	$40,955.92		$40,955.92
9900037	5/28/2026	WELLS FARGO BANK	WF AUTO DEPOSIT PPE 05.22.2026	$163,653.54	$163,653.54		$163,653.54
DFT0000079	5/14/2026	WELLS FARGO BANK	WF AUTO DEPOSIT PPE 05.08.26	$161,964.06	$161,964.06		$161,964.06
76271	5/7/2026	WEST COAST SAND AND GRAVEL INC.	RESTOCK 26 TONS BASE MATERIAL CORP YARD	$582.51	$582.51		$582.51
APA000147	5/28/2026	WEST YOST & ASSOCIATES, INC.	DESIGN & PERMITTING OF MOD HWWTP PONDS	$19,360.50	$37,027.25		$37,027.25
APA000147	5/28/2026	WEST YOST & ASSOCIATES, INC.	PROGRESS PAYMENT #14	$2,284.00			
APA000147	5/28/2026	WEST YOST & ASSOCIATES, INC.	REGULATORY REPORTING SUPPORT FOR HWWTP 3/7-4/3/2	$15,382.75			
APA000130	5/21/2026	WEST YOST & ASSOCIATES, INC.	DESIGN AND PETMITTING ON MOD TO HWWTP PONDS	$24,315.75	$24,315.75		$24,315.75
76272	5/7/2026	WEST YOST & ASSOCIATES, INC.	PROGRESS PAYMENT #13	$10,372.75	$10,372.75		$10,372.75
APA000131	5/21/2026	WESTAIR GASES & EQUIPMENT, INC.	WELDING GAS TANK EXCHANGE	$240.24	$240.24		$240.24
APA000148	5/28/2026	WILLDAN ENGINEERING	LABOR COMPLIANCE - RAY LOPEZ 04.2026	$95.00	$380.00		$380.00
APA000148	5/28/2026	WILLDAN ENGINEERING	LABOR COMPLIANCE Z&K 04.2026	$285.00			
APA000076	5/14/2026	WILLDAN ENGINEERING	294 LABOR COMPLIANCE MANAGER PO GL PROJECT VEND	$475.00	$475.00		$475.00
			CURRENT CHECK TOTAL	$2,527,438.48	$2,462,799.05	$64,639.43	$2,527,438.48
TOTAL				$2,527,438.48	$2,462,799.05	$64,639.43	$2,527,438.48

AGENDA STAFF REPORT

MEETING NAME: **REGULAR BOARD MEETINGS**

MEETING DATE(S): **JUNE 11 & 15, 2026**

FROM: **ERIC WECK, P.E., ENGINEERING MANAGER**

FOR: ACTION _X___ DIRECTION ____ INFORMATION ____

ACCEPTANCE OF BILL OF SALE FOR PROJECT VIENTO WATER AND SEWER INFRASTRUCTURE

STAFF RECOMMENDATION

It is recommended to authorize the General Manager to execute the Bill of Sale accepting the water and sewer infrastructure improvements associated with the Project Viento development, located at 64165 19th Avenue in the City of Desert Hot Springs, as contributed assets to the District, and to do all things necessary to complete the transfer of ownership of the public improvements to the District.

SUMMARY

The Developer has completed the construction of the public water and sewer improvements for the Project Viento development in accordance with District-approved plans and specifications. The improvements have successfully passed all required inspections and testing, and all required close-out documentation has been submitted to the District. Acceptance of the Bill of Sale will transfer ownership of the public water and sewer facilities and all associated appurtenances to the District for ongoing operation, maintenance, and repair. In addition, acceptance of the Bill of Sale initiates the one-year warranty period for the improvements in accordance with District requirements.

FINANCIAL DATA		
Cost Associated with this action:		$0
Current FY cost:		$0
Future FY cost:		$0
Is it covered in current year budget:	YES ☐	NO ☒
Budget adjustment needed:	YES ☐	NO ☒
If yes, year needed:		N/A
All previous contracts including dates, amounts and board approvals are attached or have been made available.		

FUNDING SOURCES	
Source of funds:	Developer
BID/Job#	11750
Current BID/Job balance	$ 17,244.82
Balance remaining if approved:	$ 17,244.82

ANALYSIS

The Developer entered into Public Water and Sewer System Construction Agreements with the District to construct the required public infrastructure improvements. In accordance with those agreements, the Developer has completed construction of the improvements. District staff have reviewed the improvements and determined that the facilities were constructed in conformance with the approved plans and District standards. Staff recommend acceptance of the Bill of Sale. The Developer shall remain responsible for correcting any defects or deficiencies identified during the one-year warranty period following Board acceptance.

FISCAL IMPACT & STRATEGIC PLAN IMPLEMENTATION

The project's infrastructure will add $9,557,355.00 to the District's depreciable assets. This action is consistent with Strategic Plan Smart Goal 4.3, Maintain and renew assets while facilitating strategic Capital Improvements.

ATTACHMENTS

Attachment 1_Bill of Sale

BILL OF SALE
FOR PURPOSES OF TRANSFERRING WATER/SEWER INFRASTRUCTURE TO MISSION SPRINGS WATER DISTRICT

For good and valuable consideration, receipt of which is hereby acknowledged, the UNDERSIGNED hereby conveys and transfers to Mission Springs Water District ("**District**"), and its successors and assigns, all right, title, and interest in and to the Water and Sewer Installations ("**Project**"), including mains, hydrants, laterals, valves, PRV, manholes and other appurtenances to said **Project**, constructed and installed in accepted and recorded public right-of-ways or easements per approved Mission Springs Water District plans ("**MSWD Plan No.**").

Project: Project Viento

MSWD Plan No.: Water and Sewer Improvement Plan W1129 and S1096

The undersigned, and its successors and assigns, covenants and agrees to and with the **District**, its successors and assigns, that the undersigned is the owner of the facilities and appurtenances for the **Project** and has the right and authority to sell the same, that the facilities and appurtenances for the **Project** are free of all liens or encumbrances, and that the undersigned will, and does, hereby warrant and agree to defend the title of the **District**, its successors and assigns, against the claims of all third parties claiming to own the same or claiming any interest therein or encumbrance thereon.

The undersigned warrants that all bills and taxes relating to the construction and installation of the facilities and appurtenances for the **Project** have been paid in full and that there are no lawsuits pending involving the **Project**. The undersigned further warrants that in the event any lawsuit is filed as a result of, or involving this **Project**, the undersigned will undertake to defend the lawsuit and will accept responsibility for all costs of litigation, including costs on appeal, and will hold the **District** harmless on any judgment rendered against the **District**.

The undersigned further warrants that all laws and ordinances respecting construction of the facilities and appurtenances for the **Project** have been complied with, and that facilities and appurtenances for the **Project** are in proper working condition, order and repair and are fit for the purposes intended; i.e., for use as a water distribution/sewer collection system.

The undersigned covenants and agrees with the **District** to replace, repair and correct any defect in work or materials in respect to the facilities and appurtenances for the **Project** subject to this Bill of Sale arising during a period of one (1) year from _____, without cost to the **District**. The undersigned shall further warrant the corrected work for one (1) year after acceptance of the corrected work by the **District**.

Developer/Owner

Signature

Jason Smith

Name

Authorized Signatory

Title

January 15, 2026

Date

Mission Springs Water District

Signature

Brian Macy

Name

General Manager / Chief Engineer

Title

Date

ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of Washington
County of King County,)

On January 15, 2026 before me, Carissa Ortega
(insert name and title of the officer)

personally appeared Jason Smith,
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature _____ **(Seal)**

CARISSA ORTEGA
Commission Expires 05-27-2029
NOTARY PUBLIC
License Number 25022053
STATE OF WASHINGTON

AGENDA STAFF REPORT

MEETING NAME: **REGULAR BOARD MEETINGS**

MEETING DATE(S): **JUNE 11 & 15, 2026**

FROM: **ERIC WECK, P.E., ENGINEERING MANAGER**

FOR: ACTION _X___ DIRECTION ____ INFORMATION ____

ACCEPTANCE OF BILL OF SALE FOR PALM PLACE WATER INFRASTRUCTURE

STAFF RECOMMENDATION

It is recommended to authorize the General Manager to execute the Bill of Sale accepting the water infrastructure improvements associated with the Palm Place development project, located at 66379 Pierson Blvd., in the City of Desert Hot Springs, as contributed assets to the District, and to do all things necessary to complete the transfer of ownership of the public improvements to the District.

SUMMARY

The Developer has completed the construction of the public water improvements for the Palm Place development project in accordance with District-approved plans and specifications. The improvements have successfully passed all required inspections and testing, and all required close-out documentation has been submitted to the District. Acceptance of the Bill of Sale will transfer ownership of the public water facilities and all associated appurtenances to the District for ongoing operation, maintenance, and repair. In addition, acceptance of the Bill of Sale initiates the one-year warranty period for the improvements in accordance with District requirements.

FINANCIAL DATA		
Cost Associated with this action:		$0
Current FY cost:		$0
Future FY cost:		$0
Is it covered in current year budget:	YES ☐	NO ☒
Budget adjustment needed:	YES ☐	NO ☒
If yes, year needed:		N/A
All previous contracts including dates, amounts and board approvals are attached or have been made available.		

FUNDING SOURCES	
Source of funds:	Developer
BID/Job#	11815
Current BID/Job balance	$ 79.00
Balance remaining if approved:	$ 79.00

ANALYSIS

District staff has reviewed the improvements and determined that the facilities were constructed in conformance with the approved plans and District standards. Staff recommend acceptance of the Bill of Sale. The Developer shall remain responsible for correcting any defects or deficiencies identified during the one-year warranty period following Board acceptance.

FISCAL IMPACT & STRATEGIC PLAN IMPLEMENTATION

The project's infrastructure will add $15,758.00 to the District's depreciable assets. This action is consistent with Strategic Plan Smart Goal 4.3, Maintain and renew assets while facilitating strategic Capital Improvements.

ATTACHMENTS

Attachment 1_Bill of Sale

BILL OF SALE
FOR PURPOSES OF TRANSFERRING WATER INFRASTRUCTURE TO MISSION SPRINGS WATER DISTRICT

For good and valuable consideration, receipt of which is hereby acknowledged, the UNDERSIGNED hereby conveys and transfers to Mission Springs Water District ("**District**"), and its successors and assigns, all right, title, and interest in and to the Water Installations ("**Project**"), including mains, hydrants, laterals, valves, PRV, and other appurtenances to said **Project**, constructed and installed in accepted and recorded public right-of-ways or easements per approved Mission Springs Water District plans ("**MSWD Plan No.**").

Project: Palm Place

MSWD Plan No.: Water Improvement Plan W1135

The undersigned, and its successors and assigns, covenants and agrees to and with the **District**, its successors and assigns, that the undersigned is the owner of the facilities and appurtenances for the **Project** and has the right and authority to sell the same, that the facilities and appurtenances for the **Project** are free of all liens or encumbrances, and that the undersigned will, and does, hereby warrant and agree to defend the title of the **District**, its successors and assigns, against the claims of all third parties claiming to own the same or claiming any interest therein or encumbrance thereon.

The undersigned warrants that all bills and taxes relating to the construction and installation of the facilities and appurtenances for the **Project** have been paid in full and that there are no lawsuits pending involving the **Project**. The undersigned further warrants that in the event any lawsuit is filed as a result of, or involving this **Project**, the undersigned will undertake to defend the lawsuit and will accept responsibility for all costs of litigation, including costs on appeal, and will hold the **District** harmless on any judgment rendered against the **District**.

The undersigned further warrants that all laws and ordinances respecting construction of the facilities and appurtenances for the **Project** have been complied with, and that facilities and appurtenances for the **Project** are in proper working condition, order and repair and are fit for the purposes intended; i.e., for use as a water distribution/sewer collection system.

The undersigned covenants and agrees with the **District** to replace, repair and correct any defect in work or materials in respect to the facilities and appurtenances for the **Project** subject to this Bill of Sale arising during a period of one (1) year from **May 8, 2026**, without cost to the **District**. The undersigned shall further warrant the corrected work for one (1) year after acceptance of the corrected work by the **District**.

Developer/Owner

Shayda Ebrahimi
Signature

Shayda Ebrahimi
Name

Owner
Title

5/29/26
Date

Mission Springs Water District

Signature

Brian Macy
Name

General Manager / Chief Engineer
Title

Date

ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
County of Los Angeles)

On 5/29/26 before me, Marlon Nigro, Notary Public
(insert name and title of the officer)

personally appeared Shayda Ebrahimi,
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

MARLON NIGRO
Notary Public - California
Los Angeles County
Commission # 2444286
My Comm. Expires Apr 14, 2027

Signature _____ **(Seal)**

AGENDA STAFF REPORT

MEETING NAME: **REGULAR BOARD MEETINGS**

MEETING DATE(S): **JUNE 11 & 15, 2026**

FROM: **ERIC WECK P.E., ENGINEERING MANAGER**

FOR: ACTION _X___ DIRECTION ____ INFORMATION ____

ACCEPTANCE OF THE WATER SUPPLY ASSESSMENT AND WATER SUPPLY VERIFICATION FOR THE FIRST PALM SPRINGS COMMERCE CENTER II DEVELOPMENT PROJECT

STAFF RECOMMENDATION

It is recommended accept and approve the Water Supply Assessment (WSA) and Water Supply Verification (WSV) for the First Palm Springs Commerce Center II Development Project (Project) located in the City of Palm Springs.

SUMMARY

Senate Bill 610 requires preparation of a WSA for development projects that are subject to the California Environmental Quality Act (CEQA) and are defined as a "Project" pursuant to California Water Code Section 10912. Senate Bill 221 requires preparation of a WSV for projects subject to approval of a tentative subdivision map or development agreement. The Project consists of the development of approximately 58.6 acres with a single 1,092,337 square-foot industrial warehouse building, including approximately 10,000 square feet of mezzanine office space, trailer parking, docking facilities, employee parking, stormwater retention facilities, and landscaped areas. The Project is located north of Interstate 10 and east of State Route 62 within the City of Palm Springs (City) and includes Assessor Parcel Numbers 666-320-021 through -028, and -002 through -005. Because the Project exceeds 650,000 square feet of industrial floor area and occupies more than 40 acres, it qualifies as a "Project" under Senate Bill 610 and requires preparation of a WSA and WSV. A combined WSA and WSV was prepared by BKF in coordination with MSWD. The City of Palm Springs is serving as the CEQA Lead Agency for the Project. The completed WSA and WSV will be incorporated into the Project's CEQA documentation and administrative record.

ANALYSIS

The Project is anticipated to generate an estimated water demand of approximately 30 acre-feet per year. The WSA and WSV evaluated MSWD's projected water supplies over a 20-year planning horizon during normal, single-dry, and multiple-dry year conditions, as required by Senate Bills 610 and 1262. The analysis concludes that MSWD has sufficient water supplies available to meet the projected demands of the Project, in addition to existing and planned future demands within the District's service area. Staff have reviewed the WSA and WSV and determined that the documents satisfy the applicable requirements of California Water Code Sections 10910 through 10915.

FINANCIAL DATA		
Cost Associated with this action:		$0
Current FY cost:		$0
Future FY cost:		$0
Is it covered in current year budget:	YES ☒	NO ☐
Budget adjustment needed:	YES ☐	NO ☒
If yes, year needed:		N/A
All previous contracts including dates, amounts and board approvals are attached or have been made available.		
FUNDING SOURCES		
Source of funds:	Developer Funded	
BID/Job#	11915	
Current BID/Job balance	$4,532.00	
Balance remaining if approved:	$4,532.00	

FISCAL IMPACT AND STRATEGIC PLAN IMPLEMENTATION

No fiscal impact to MSWD. This action is consistent with Strategic Plan Smart Goal 2.1: Ensure excellence in regulatory compliance.

ATTACHMENTS

Attachment 1_First Industrial Commerce Center II Water Supply Assessment and Verification, April 2026

Water Supply Assessment
and
Water Supply Verification
for the Proposed

First Industrial Commerce Center II
APN's 666-320-002, -003, -004, -005, and – 028

Prepared for:

Mission Springs Water District
66575 2nd Street
Desert Hot Springs, CA 92240

PREPARED BY:

BKF
Emily Elliott, AICP
Planning Practice Lead

3850 Vine Street, Suite 110
Riverside, California, 92507

June 2026

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APPENDICES

Appendix A: 2020 Coachella Valley Regional Urban Water Management Plan (RUWMP) (June 30, 2021). Available at: Urban Water Management Planning | Coachella Valley Water District - Official Website (cvwd.org) 2025 Update Draft RUWMP (in public review) Available at: 2025 Regional UWMP Under Development – Desert Water Agency website (dwa.org)
Appendix B: Mission Creek Subbasin Alternative Plan Update (November 2021). Available at: Mission Creek Subbasin Alternative Plan Update (missioncreeksubbasinsgma.org)

1 Summary and Requirements

This Water Supply Assessment (WSA) was created to meet the rules set out in the California Water Code (CWC) Section 10910 and Senate Bills 610 and 1262. MNS Engineers, Inc. worked on this report with the Mission Springs Water District (MSWD) and the City of Palm Springs (City). SB 610 aims to make sure that water supply information for certain projects, including large-scale industrial projects, has been made part of the administrative record to be reviewed by decision makers assessing whether the project water supply will meet the water demands of the project.

The First Industrial Commerce Center II("Project") is being reviewed in compliance with the California Environmental Quality Act (CEQA) process. The City of Palm Springs is the Lead Agency for land use entitlements and for the Project's Environmental Impact Report (EIR) which is required by CEQA. The City has identified the Mission Springs Water District (MSWD) as the Public Water System (PWS) that will supply water services for the proposed Project and has requested that MSWD assist in preparing a Water Supply Assessment (WSA) as part of the environmental review for the Project.

The Project is located in the Mission Springs Water District, north of Interstate 10 (I-10) and east of State Route (SR 62) in the northern part of Palm Springs, Riverside County. It covers five (5) parcels with Assessor Parcel Numbers 666-320-002, -003, -004, -005, and -028. The site is bordered by 18th Avenue to the north, North Indian Canyon Drive to the east, 19th Avenue to the south, and Karen Drive to the west. The Union Pacific Railroad (UPRR) corridor is about one and a half (1.5) miles south of the site.

The Project will develop approximately 58.6 acres of partially disturbed but vacant land a single 1,092,337 square foot (sq. ft.) industrial warehouse building, including 10,000 square feet of interior "mezzanine" planned office space. The building will include 406 trailer parking positions and 174 trailer docking positions along the north and south sides of the building. The north and east sides of the building will include 323 standard parking stalls and 10 accessible parking stalls for employees. Approximately 17 percent of the site would be landscaped, including stormwater retention basins along the south side boundary. The site will include additional stormwater basins under the parking lot for excess runoff.

This Water Supply Assessment (WSA) found that the Project will need 91.12 Acre-Feet of water per Year (AFY), or about 2.63 Acre-Feet per Acre (AF/Acre). This means that based on current water planning estimates, there will be enough water to meet this demand. The WSA also shows that MSWD's published water supply estimates are adequate for the Project's needs, along with the existing and future demands in the district's service area, even in normal, single-dry, and multiple-dry years for the next twenty years.

This WSA will be updated every five years, or sooner if there are changes in water planning assumptions, to ensure it stays accurate. If construction hasn't started yet, these updates will help ensure no significant changes affect the Project's water needs or the district's available water supply. According to SB 610, this WSA, and its approval, don't give any guaranteed right to water service or a specific level of service. It also doesn't create or change MSWD's responsibilities to provide water to its current or future customers.

This WSA does not mean that the Project is guaranteed water service. It does not give the Project, the Project Applicant, or anyone else a right to water, nor does it ensure any priority or allocation of water supply, capacity, or facilities. To get water service, the Project will need to enter into an agreement with the MSWD. This agreement will also require payment of any fees or charges, submission of plans and specifications, and compliance with any other requirements MSWD has in place.

Moreover, nothing in this WSA limits or interferes with MSWD's authority to declare a water shortage emergency as outlined by the California Water Code (CWC). If such an emergency occurs, MSWD has the discretion to take the necessary steps to manage water supplies.

1.1 Regulatory Requirements

The Sustainable Groundwater Management Act (SGMA) provides legislative guidance for water supply planning for CEQA development projects. SGMA sets statewide rules for managing groundwater sustainably, as outlined in California Water Code Section 10910 (also known as SB 610 or the Water Supply Assessment statute) and California Government Code Section 66473.7 (commonly called SB 221 or the Written Verification Statute).

The City of Palm Springs has determined that the Project is subject to review under CEQA (Public Resources Code, § 21000), following the state CEQA Guidelines (California Code of Regulations, § 15000). Because the Project is over 650,000 square feet of industrial space, it meets the definition of a "project" under CWC 10912, requiring the preparation of this WSA. The WSA evaluates whether there will be enough water for the Project over the next 20 years during normal, single-dry, and multiple-dry years, as required by SB 610 and SB 1262. It also reviews existing water supply agreements, water rights, contracts, and other arrangements that are related to providing water to the Project.

The Project must comply with all applicable state, county, city, and local laws, including landscaping and indoor water use rules in the California Water Code. The WSA's goal is to review water planning assumptions every five years to ensure they're still accurate and no significant changes to the Project or the water supply have occurred. The Project applicant must inform the Mission Springs Water District (MSWD) when construction begins.

1.1.1 Senate Bill 610

Senate Bill 610 (SB 610) was amended and put into effect on January 1, 2002. This law applies to development projects that are subject to the California Environmental Quality Act (CEQA) and are considered a "project" under California Water Code (CWC) Section 10912. The purpose of SB 610 is to encourage local water suppliers, cities, and counties to work together by providing decision-makers with detailed information about water availability before they approve large development projects.

SB 610 requires a Water Supply Assessment (WSA) to determine if the total projected water supplies (Public Water Systems or PWSs), available during normal, single-dry, and multiple-dry years over a 20-year period, will meet the Project's projected water demand. The WSA should also consider current and planned future water uses. Under CWC Section 10912, certain categories of projects require a WSA. Below is a list of those categories with a checkmark ("✓") indicating the one that applies to the First Palm Springs Commerce Center:

- ☐ A proposed residential development of more than 500 dwelling units;
- ☐ A proposed shopping center or business establishment employing more than 1,000 persons or having more than 500,000 square feet of floor space;
- ☐ A proposed commercial office building employing more than 1,000 persons or having more than 250,000 square feet of floor space;
- ☐ A proposed hotel or motel, or both, having more than 500 rooms;
- ☑ A proposed industrial, manufacturing, or processing plant, or industrial park, planned to house more than 1,000 persons, occupying more than 40 acres of land, or having more than 650,000 square feet of floor space;
- ☐ A mixed-use project that includes one or more of the projects specified in this subdivision; or

☐ A project that would demand an amount of water equivalent to, or greater than, the amount of water required by a 500-dwelling unit project (about 250 AFY).

1.1.2 Senate Bill 1262

On January 1, 2017, Senate Bill 1262 (SB 1262) was enacted, updating California Water Code (CWC) Section 10910. This Bill mandates that projects provide an assessment to identify the sources of their water supply. If a project lacks sufficient water supply, the relevant local agencies must outline how they plan to acquire additional water resources. When a proposed project relies on groundwater from a basin managed by a local public agency or Groundwater Sustainability Agencies (GSAs), the Water Supply Assessment (WSA) must include information from the Sustainable Groundwater Management Act (SGMA).

SGMA requires that all groundwater basins classified as medium- or high-priority by the California Department of Water Resources (DWR) be managed under a Groundwater Sustainability Plan (GSP). These GSPs are designed to ensure the sustainable use of groundwater resources over the long term.

Therefore, when a WSA is prepared for a project using groundwater, it must consider the local groundwater sustainability plan, if applicable. It must address the project's impact on the groundwater basin and ensure that water use aligns with the sustainability goals set by the SGMA. This ensures that development projects are compatible with the long-term management of groundwater resources and meet state requirements for water supply planning.

1.2 Water Management Planning Documents

MSWD contributed to creating a long-term Regional Urban Water Management Plan (RUWMP) for the Coachella Valley. This plan helps protect future water use and manage water supplies within MSWD's service area. The First Palm Springs Commerce Center Project falls within this assessed area.

The RUWMP serves as a key resource for understanding water management in the region, and it can be used to determine the Project's compliance with Senate Bills 610 and 1262, as explained in detail within this WSA. By aligning with the RUWMP, the Project can ensure that its water demands are consistent with broader regional planning and sustainability efforts, meeting the state's requirements for water supply and management.

1.2.1 Urban Water Management Planning Act

The Urban Water Management Planning Act (UWMPA) became part of the California Water Code (CWC) with the passage of Assembly Bill 797 (AB 797) on September 21, 1983. The UWMPA acknowledges that the state's water resources are limited and face increasing demand, emphasizing the importance of conservation and efficient water usage as matters of statewide concern. The legislation also recognizes that effective water planning and management are best carried out at the local level as part of long-term planning to ensure adequate water supplies for both current and future needs.

The UWMPA mandates that municipal water suppliers prepare and adopt an Urban Water Management Plan (UWMP) to support conservation efforts, promote efficient water use, and improve local drought resilience. Current provisions require that UWMPs include:

- Information on past, current, and projected water supplies and demands.
- Strategies for meeting water needs including ongoing and planned water conservation measures.
- A water shortage contingency plan.
- Information on the availability and potential use of recycled water.
- An assessment of water supply reliability over a 20-year period, including during normal water years, single-dry years, and droughts lasting five consecutive years.

Municipal water suppliers that serve more than 3,000 customers or supply more than 3,000 AFY must prepare and adopt a UWMP with projections for water usage over the next 20 years in five-year increments, considering different water scenarios. This helps ensure that water planning is comprehensive and resilient, providing a roadmap for sustainable water management at the local level.

The UWMP must be submitted to the California DWR, who reviews them for consistency with statutory requirements in order to verify that the urban water supplier is eligible for grants from the State.

1.2.1.1 Coachella Valley Regional Urban Water Management Plan

The 2020 Coachella Valley Regional Urban Water Management Plan (RUWMP) was submitted to DWR on July 1, 2021. The RUWMP was prepared on behalf of six urban water suppliers that serve customers in the Coachella Valley (Coachella Valley Water District [CVWD], Coachella Water Authority [CWA], Desert Water Agency [DWA], Indio Water Authority [IWA], MSWD, and Myoma Dunes Mutual Water Company [MDMWC]).

The report was prepared to reflect the agencies' collaborative efforts in managing shared water resources (demand projections, characterization of shared supplies, and planning for potential water shortages), while still allowing each agency to meet its individual requirements. The 2025 Coachella Valley RUWMP has been completed in a draft form but has not been adopted by the participating districts, therefore this WSA will be using data provided by the 2020 Coachella Valley RUWMP.

1.2.2 Sustainable Groundwater Management Act

AB 1739, SB 1168, and SB 1319—signed into law by Governor Brown in September 2014. The SGMA creates a statewide framework empowering local agencies to safeguard and manage groundwater resources to prevent over-pumping or contamination. Groundwater, which is stored underground in layers of soil, sand, and rock called aquifers, makes up a significant portion of California's water supply.

Under the SGMA, local agencies must form Groundwater Sustainability Agencies (GSAs) in high- and medium-priority basins to develop and implement groundwater sustainability plans. These plans detail how water will be used and managed without causing undesirable effects, such as significant and unreasonable declines in groundwater levels, reductions in groundwater storage, seawater intrusion, water quality degradation, land subsidence, or depletion of interconnected surface waters.

According to the California Department of Water Resources (DWR), the Coachella Valley consists of four subbasins: Indio, Mission Creek, Desert Hot Springs, and San Gorgonio Pass, identified in DWR Bulletin 118. DWR assessed and prioritized 515 groundwater basins in Bulletin 118, with 94 designated as high- or medium-priority basins as of December 2019. These basins must be sustainably managed within 20 years.

Three water agencies operate within the Mission Creek Subbasin: MSWD, CVWD, and Desert Water Agency (DWA). The First Industrial Commerce Center II is within the MSWD service area, covering about 325 square miles, including parts of Palm Springs. As of 2024, the MSWD had 13,000 municipal

connections, supplying about 7,900 AFY. MSWD provides water services across 135 square miles, serving over 13,500 retail water customers.

1.2.2.1 Alternative Plan for the Mission Creek Subbasin

The Mission Creek Subbasin is one of the largest groundwater subbasins in the Coachella Valley Groundwater Basin, alongside the San Gorgonio Pass, Indio, and Desert Hot Springs Subbasins. In 2004, the Mission Creek Settlement Agreement led to the formation of the Management Committee, consisting of representatives from MSWD, DWA, and CVWD. This committee collaborated to create the 2013 Mission Creek/Garnet Hill Subbasin Water Management Plan (2013 MC/GH WMP), designed to outline current water management strategies, evaluate new approaches, and recommend additional programs to ensure sustainable and protected water resources.

On December 29, 2016, MSWD, DWA, and CVWD submitted the 2013 MC/GH WMP, along with supporting documents, and a Bridge Document, to the California Department of Water Resources (DWR) as an Alternative Plan for the Mission Creek Subbasin, for review under the SGMA. DWR approved this plan on July 17, 2019, indicating that it met the objectives of the SGMA. Following this approval, the Management Committee must submit an assessment and update of the Alternative Plan every five years, with the first due by January 1, 2022.

The 2022 Alternative Plan Update, for the Mission Creek Subbasin, was submitted to DWR on December 30, 2021 and was approved by DWR June 2024. Additionally, on February 1, 2018, DWR informed all GSAs with approved Alternative Plans that they must submit annual reports by April 1 of each year. The 2027 Alternative Plan Update (APU) for the Mission Creek Subbasin is currently being drafted, therefore, this WSA is utilizing data from the existing 2022 APU. MSWD, DWA, and CVWD have been collaboratively preparing and submitting these annual reports for the Mission Creek Subbasin, covering water years (WY) from 2016-2017 through 2021-2022. These reports track progress toward groundwater sustainability and provide updates on water use, replenishment, and other key metrics to ensure compliance with the SGMA and sustainable management of the subbasin.

1.2.3 Groundwater Replenishment

California is accelerating efforts to manage groundwater through recharge initiatives, particularly in response to climate-driven weather patterns. Groundwater recharge is a key element of sustainable groundwater management, allowing basins to be replenished and pumped without causing significant declines in groundwater levels. Recharge can be achieved through various sources, such as surface water, stormwater runoff, recycled water, and remediated groundwater.

Under California Water Code Section 10729(c), the SGMA requires the DWR to assist local agencies in estimating the amount of water available for replenishment. Managed aquifer recharge (MAR), also known as water banking, refers to techniques that store water for later use, especially in dry years when surface water supplies might be low.

In addition, Chapter 7 of the California Water Code, provides the CVWD with the authority to levy and collect water replenishment assessments to fund groundwater replenishment programs (GRPs) within its jurisdiction. These GRPs help to counteract the overdraft of groundwater basins and mitigate related negative outcomes. The legislation mandates that CVWD submit an annual underground engineering survey and report by May 1, detailing the current groundwater condition, the need for replenishment, and recommendations for future actions.

CVWD has three designated Areas of Benefit (AOBs) where it levies replenishment assessments on groundwater production: the Mission Creek Subbasin AOB, the West Whitewater River Subbasin AOB, and

the East Whitewater River Subbasin AOB. The West Whitewater River Subbasin AOB GRP began in 1976, the Mission Creek Subbasin AOB GRP in 2003, and the East Whitewater River Subbasin AOB GRP in 2004. The Project is located within the Mission Creek Subbasin AOB, which benefits from the groundwater replenishment programs.

These replenishment efforts, alongside the broader recharge initiatives, contribute to a sustainable approach to managing California's groundwater resources, offering a safety net during periods of reduced surface water supply.

2 Public Water System

The City of Palm Springs is the Lead Agency for the planning and environmental review of the proposed Project. The City has identified the MSWD as the Public Water System (PWS) that will supply water for the proposed Project and has requested that MSWD assist in preparing a WSA as part of the environmental review for the Project.

2.1 Mission Springs Water District (MSWD)

MSWD is a public water and wastewater agency organized under the County Water District Law, as outlined in the CWC. It began as a mutual water company in the late 1940s. By 1953, it had transitioned into an incorporated entity, the Desert Hot Springs County Water District, and later changed its name to MSWD in 1987. MSWD is managed by a five-member board, with each member elected from five separate divisions for a four-year term.

MSWD serves over 13,500 retail water customers through three separate production and distribution systems, and it provides wastewater services to more than 9,200 customers through two independent wastewater collection and treatment systems. The MSWD service area spans approximately 135 square miles, including the City of Desert Hot Springs, part of the City of Palm Springs, and ten smaller communities in Riverside County, such as North Palm Springs, West Palm Springs Village, and Palm Springs Crest as shown in **Figure 2-1, Mission Springs Water District Boundary.**

The 2020 RUMWP projected that population in MSWD's urban water service area would increase as shown in **Table 2-1**.

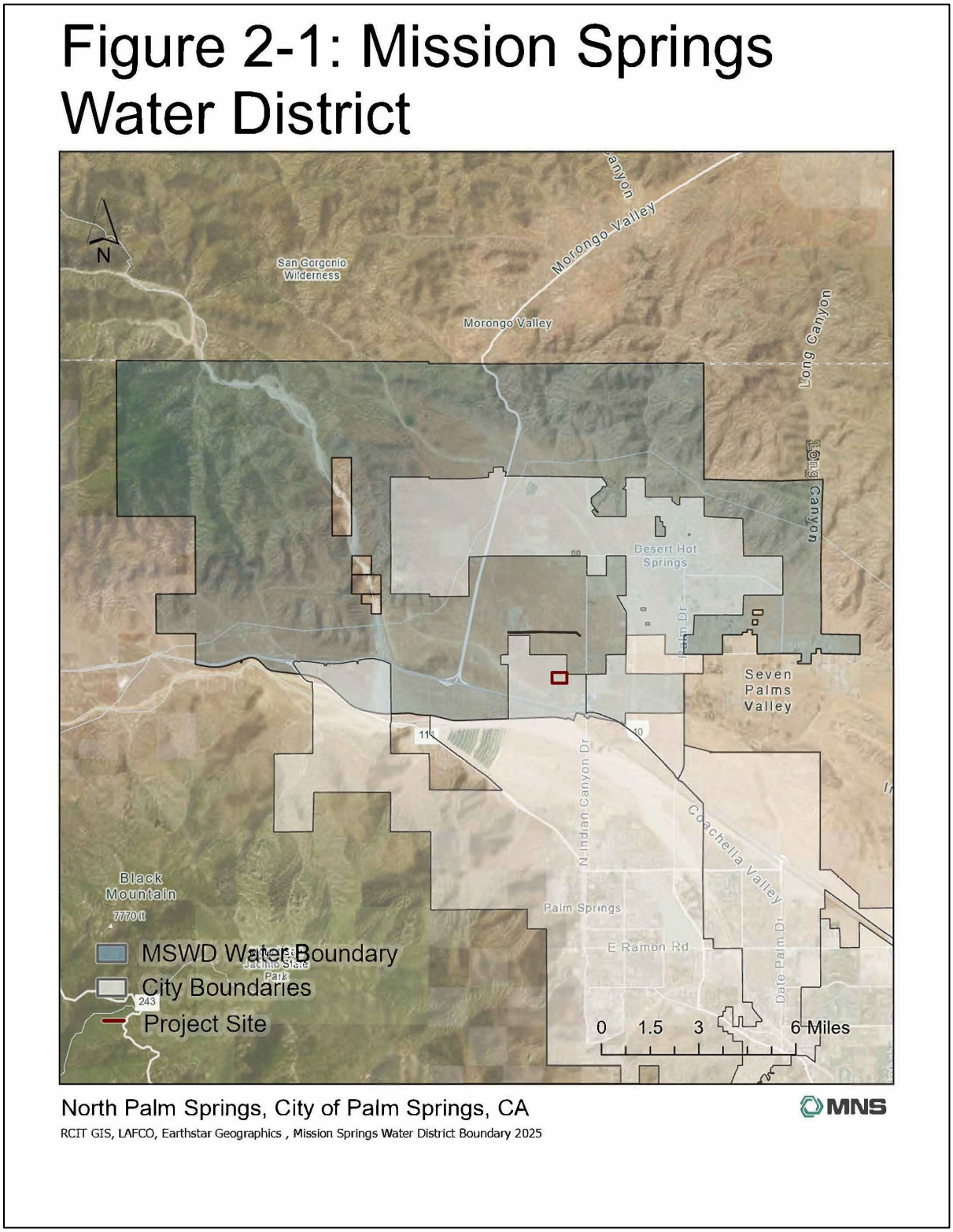
Overall, MSWD plays a crucial role in supplying water and managing wastewater for its service area, serving a diverse range of communities across a sizable geographic region. Its governance structure and service delivery systems ensure the district's capacity to meet the needs of its customers and maintain a steady water supply and wastewater treatment infrastructure.

Table 2-1: Current and Projected Population for MSWD's Service Area

Planning Year	2025	2030	2035	2040	2045
Population Served	49,081	54,414	59,747	66,064	72,380

Source: 2020 Coachella Valley RUWMP

Figure 2-1: Mission Springs Water District Boundary



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2.2 Coachella Valley Hydrology

Most of the natural groundwater replenishment in the Coachella Valley comes from runoff from the nearby mountains. The region's climate features low humidity, high summer temperatures, and mild, dry winters. The average annual rainfall varies significantly, with the Coachella Valley floor receiving between 3 to 6 inches of rain, while the surrounding mountains can get over 30 inches annually. Most of the rainfall occurs between December and February, with occasional summer thunderstorms.

The prevailing winds are typically gentle, though they can sometimes reach speeds of 30 miles per hour or more. During midsummer, temperatures frequently exceed 100 degrees Fahrenheit (°F), often reaching 110 °F and sometimes topping 120 °F. The average winter temperature is around 60 °F as shown in **Table 2-2** and **Table 2-3**. This climate pattern impacts the groundwater replenishment rates and affects how water resources are managed in the region.

Table 2-2: Monthly Average Climate Data for Palm Springs

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Max (˚F)[1]	71	73	80	86	94	104	108	107	102	90	78	69	89
Min (˚F)[1]	47	49	54	59	65	73	80	79	74	64	53	46	62
Rain (in)[1]	0.95	0.92	0.36	0.10	0.02	0.00	0.25	0.14	0.20	0.20	0.26	0.70	3.80
ETo (in)[2]	2.5	3.4	5.6	7.1	8.3	8.7	8.1	7.5	6.2	4.7	2.9	2.2	67.2

Source: 2020 Coachella Valley RUWMP
[1] National Weather Service Forecast, Station Palm Springs Airport, 1998-2020
[2] CIMIS Station 218 – Thermal South, 2010-2020

Table 2-3: Monthly Average Climate Data for Thermal

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Max (˚F)[1]	71	74	81	87	92	103	107	106	101	91	79	69	89
Min (˚F)[1]	39	43	49	55	63	69	76	75	68	57	45	38	56
Rain (in)[1]	0.64	0.61	0.34	0.08	0.01	0.01	0.13	0.12	0.32	0.19	0.17	0.34	2.96
ETo (in)[2]	2.7	3.9	6.4	8.0	9.3	9.3	9.6	9.1	7.1	5.3	3.2	2.4	70.2

Source: 2020 Coachella Valley RUWMP
[1] National Weather Service Forecast, Station Desert Resorts Regional Airport, 1990-2020
[2] CIMIS Station 218 – Thermal South, 2010-2020

3 Groundwater

Groundwater is the primary source of drinking water in the Coachella Valley. MSWD relies entirely on groundwater production for its water supply and does not purchase imported water from a water wholesaler. However, CVWD and DWA are addressing the overdraft condition in the Upper Coachella Valley by replenishing groundwater with Colorado River water and State Water Project (SWP) Exchange water from the Metropolitan Water District of Southern California (MWD).

CVWD has the legal authority to manage the groundwater basin under the County Water District Law (California Water Code Section 30000, et seq.) and as a Groundwater Sustainability Agency (GSA) under the Sustainable Groundwater Management Act (SGMA). This role allows CVWD to coordinate efforts to ensure groundwater sustainability and take steps to mitigate overdraft through replenishment programs. These initiatives are crucial in maintaining a sustainable water supply for the Coachella Valley, given the region's reliance on groundwater.

3.1 Coachella Valley Groundwater Basin

The Coachella Valley Groundwater Basin is bordered by significant geographic features. To the north and east, it is bounded by the San Bernardino and Little San Bernardino Mountains, while the Santa Rosa and San Jacinto Mountains define the south and west edges. The Salton Sea forms the southernmost boundary. At the west end of the San Gorgonio Pass, between Beaumont and Banning, the basin is separated from the Beaumont Groundwater Basin by a surface drainage divide, marking the boundary of the Upper Santa Ana Drainage Area.

The southern boundary is primarily defined by the watershed of the Mecca Hills and by the northwest shoreline of the Salton Sea, which runs between the Santa Rosa Mountains and Mortmar. Beyond the Salton Sea, the boundary extends between Travertine Rock, at the base of the Santa Rosa Mountains, and crosses into Imperial and San Diego Counties.

Despite interflow of groundwater throughout the Coachella Valley Groundwater Basin, movement can be restricted by natural barriers such as faults, constrictions in the basin's profile, and areas with low permeability. These factors control the groundwater's movement and lead to the division of the Coachella Valley Groundwater Basin into subbasins and subareas, as described by the California Department of Water Resources (DWR) in 1964 and 2003, and by the United States Geological Survey (USGS) in 1974. These divisions help guide sustainable groundwater management and planning, ensuring that the unique characteristics of each subbasin are addressed appropriately.

3.1.1 Coachella Valley Groundwater Basin - Subbasins

As shown on **Figure 3-1, Coachella Valley Groundwater Basin and Subbasins**, which outlines the Coachella Valley Groundwater Basin and its subbasins, the major subbasins within the Coachella Valley Groundwater Basin are Indio, Mission Creek, San Gorgonio Pass, and Desert Hot Springs. These subbasins are defined without considering water quantity or quality; instead, they mark areas where geological formations readily yield groundwater through wells, serving as natural reservoirs to regulate water supplies.

The boundaries between subbasins are typically defined by faults that restrict the lateral movement of groundwater. These natural barriers create distinct subbasins with unique geological and hydrological characteristics. Additionally, smaller subareas within the Coachella Valley Groundwater Basin have been delineated based on specific geological or hydrologic factors, such as the types of water-bearing formations, water quality, areas of confined groundwater, forebay areas, groundwater divides, and surface drainage divides.

These subdivisions are crucial for understanding the Coachella Valley Groundwater Basin's complex structure, allowing for more effective groundwater management and sustainability planning. By recognizing the unique characteristics of each subbasin and subarea, stakeholders can tailor groundwater management strategies to address local needs and challenges.

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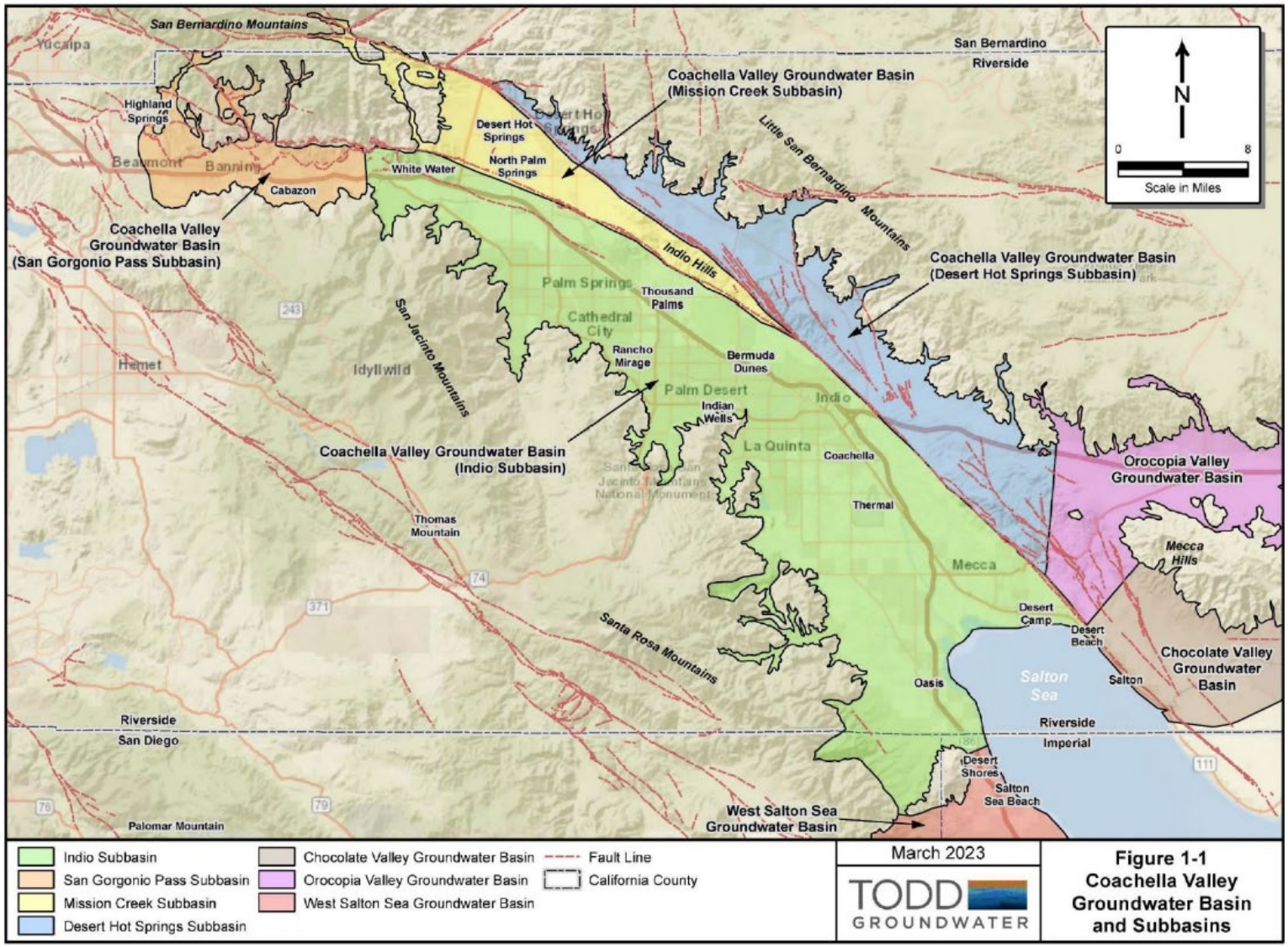
Figure 3-1: Coachella Valley Groundwater Basin and Subbasins



Source: Indio Subbasin annual Report for Water Year 2021-2022

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The following is a list of the subbasins in the Coachella Valley Groundwater Basin as designated by DWR in Bulletin 118 (2020 Update):

- Indio Subbasin (Subbasin 7-21.01)
- Mission Creek Subbasin (Subbasin 7-21.02)
- San Gorgonio Pass Subbasin (Subbasin 7-21.03)
- Desert Hot Springs Subbasin (Subbasin 7-21.04)

In the 2020 Update of Bulletin 118, DWR designated the Indio, Mission Creek, and San Gorgonio Pass Subbasins as medium priority, and the Desert Hot Springs Subbasin as very low priority. None of the subbasins are adjudicated or subject to critical conditions of overdraft.

3.1.2 Groundwater Demand

Groundwater is the primary source of potable supply in the Coachella Valley and MSWD obtains groundwater from the Mission Creek Subbasin, San Gorgonio Pass, and the Garnet Hill Subarea of the Coachella Valley Groundwater Basin. MSWD's groundwater demand in the Coachella Valley Groundwater Basin for 2021 through 2025 is shown in **Table 3-1**.

Table 3-1: Groundwater Demand in the Coachella Valley Groundwater Basin

Groundwater Production (AF)	2021	2022	2023	2024	2025
Mission Creek Subbasin	7,916	7,777	7,339	7,919	7,745
San Gorgonio Pass	60	58	76	20	53
Garnet Hill Subarea	103	134	138	43	98
Total	**8,079**	**7,197**	**7,552**	**7,982**	**7,897**

3.1.3 Groundwater Sustainability

Long-term sustainability in groundwater management is typically evaluated by examining changes in groundwater storage over a period of ten to twenty years, which encompasses both wet and dry periods.

3.1.3.1 Mission Creek Subbasin

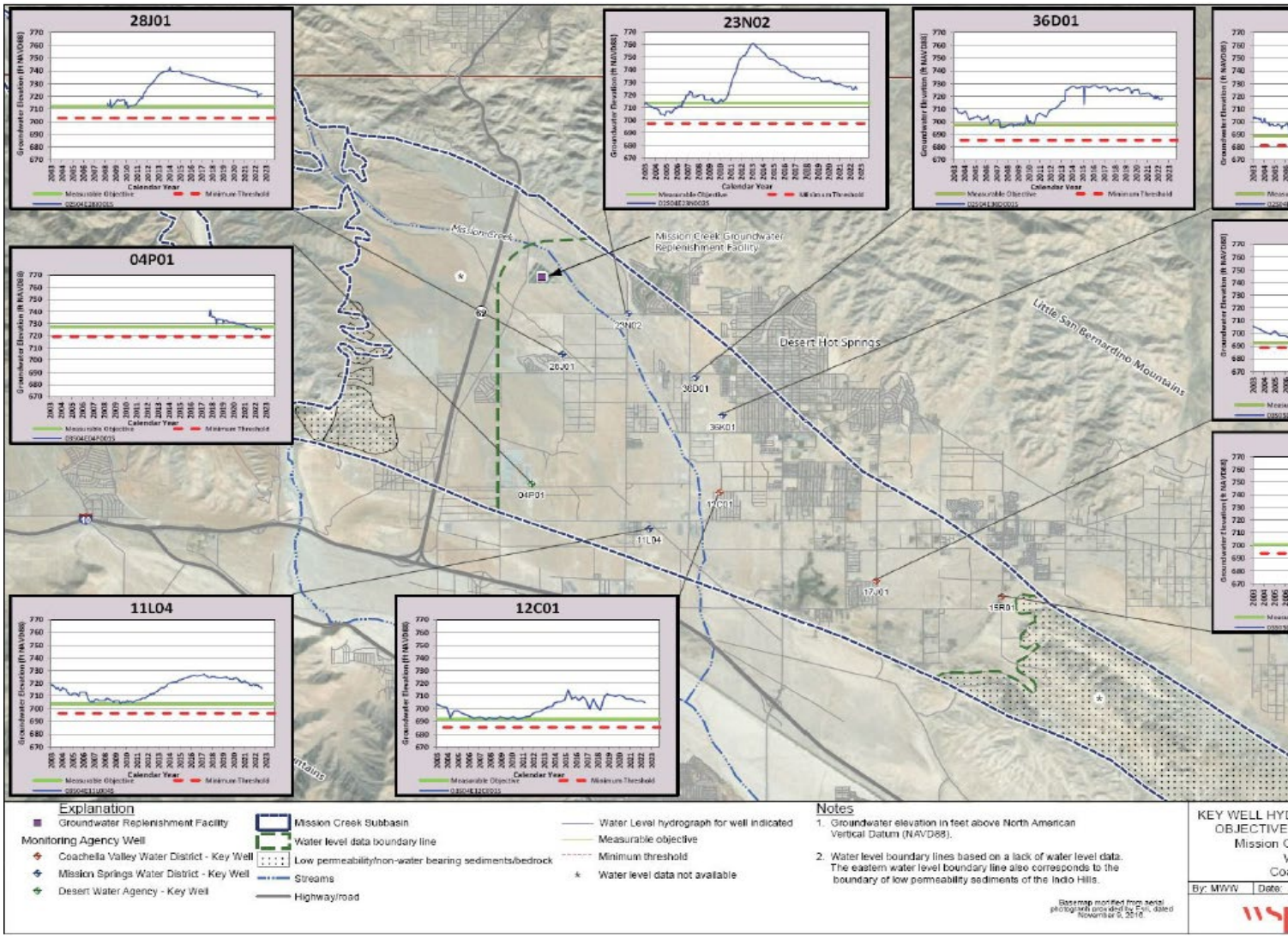
The 2022 Mission Creek Subbasin Alternative Plan Update identified nine Key Wells across the subbasin to monitor local groundwater levels, as illustrated in **Figure 3-2, Water Level Monitoring Wells in the Mission Creek Subbasin**, which displays the Water Level Monitoring Wells in the Mission Creek Subbasin. Each Key Well has a set minimum threshold (MT) to indicate groundwater sustainability. In Water Year (WY) 2021-2022, water levels in all nine Key Wells remained above their respective MTs, as depicted in the hydrographs within **Figure 3-2**. This demonstrates that Mission Creek Subbasin is not experiencing significant undesirable results like chronic lowering of groundwater levels, depletion of groundwater storage, or potential subsidence.

Figure 3-3, Historical Annual Change in Groundwater Storage in the Mission Creek Subbasin, shows annual changes in groundwater storage from 1978 through WY 2021-2022, along with annual inflows, outflows, groundwater production, and the 10-year and 20-year running-average changes in storage. During periods of high artificial recharge, the change in storage tends to be positive, whereas dry years or times of high groundwater pumping can lead to negative changes in storage. **Figure 3-3** indicates that both the 10-year and 20-year running-average changes in groundwater storage have shown positive trends since 2004,

reflecting an overall improvement in the subbasin's groundwater storage balance. The 20-year running-average change in storage reveals that the Mission Creek Subbasin has been in balance since 2012, suggesting long-term sustainability.

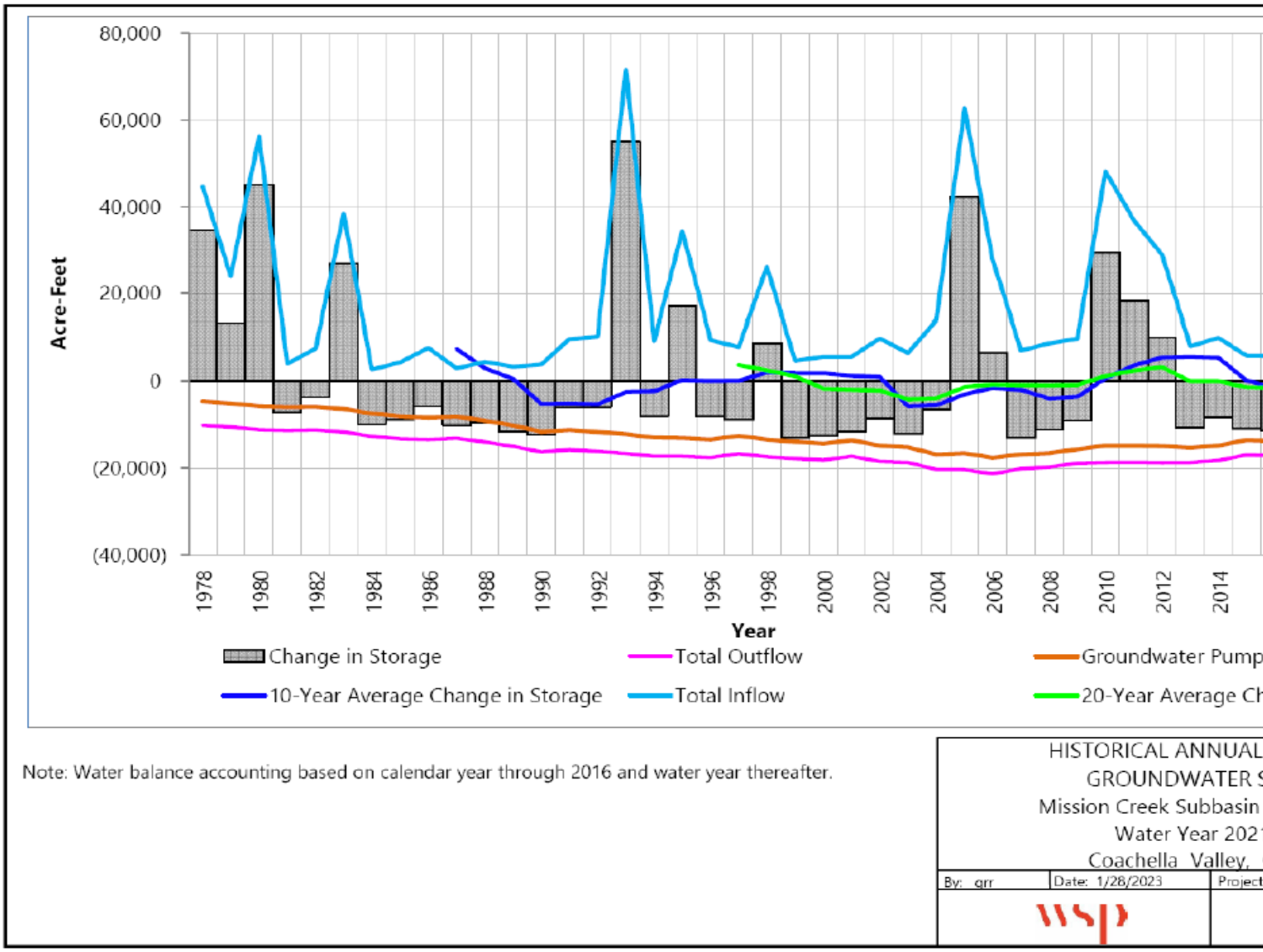
Moreover, Figure 3-4, Change in Groundwater Elevation from Water Year 2008-2009 Through Water Year 2021-2022 in the Mission Creek Subbasin, indicates that groundwater levels have risen significantly in the Mission Creek Subbasin over the past decade. The Mission Creek Subbasin Annual Report uses 2009 as a baseline year to measure sustainability, considering that historical low groundwater levels occurred around that time. Given these improvements, the Mission Creek Subbasin shows a long-term positive trend in groundwater sustainability, primarily due to the successful implementation of the Mission Creek Subbasin Alternative Plan.

Figure 3-2: Water Level Monitoring Wells in the Mission Creek Subbasin



Source: 2022 Alternative Plan Update for the Mission Creek Subbasin

Figure 3-3: Historical Annual Change in Groundwater Storage in the Mission Creek Subbasin



Source: Mission Creek Subbasin Annual Report for Water Year 2021-2022

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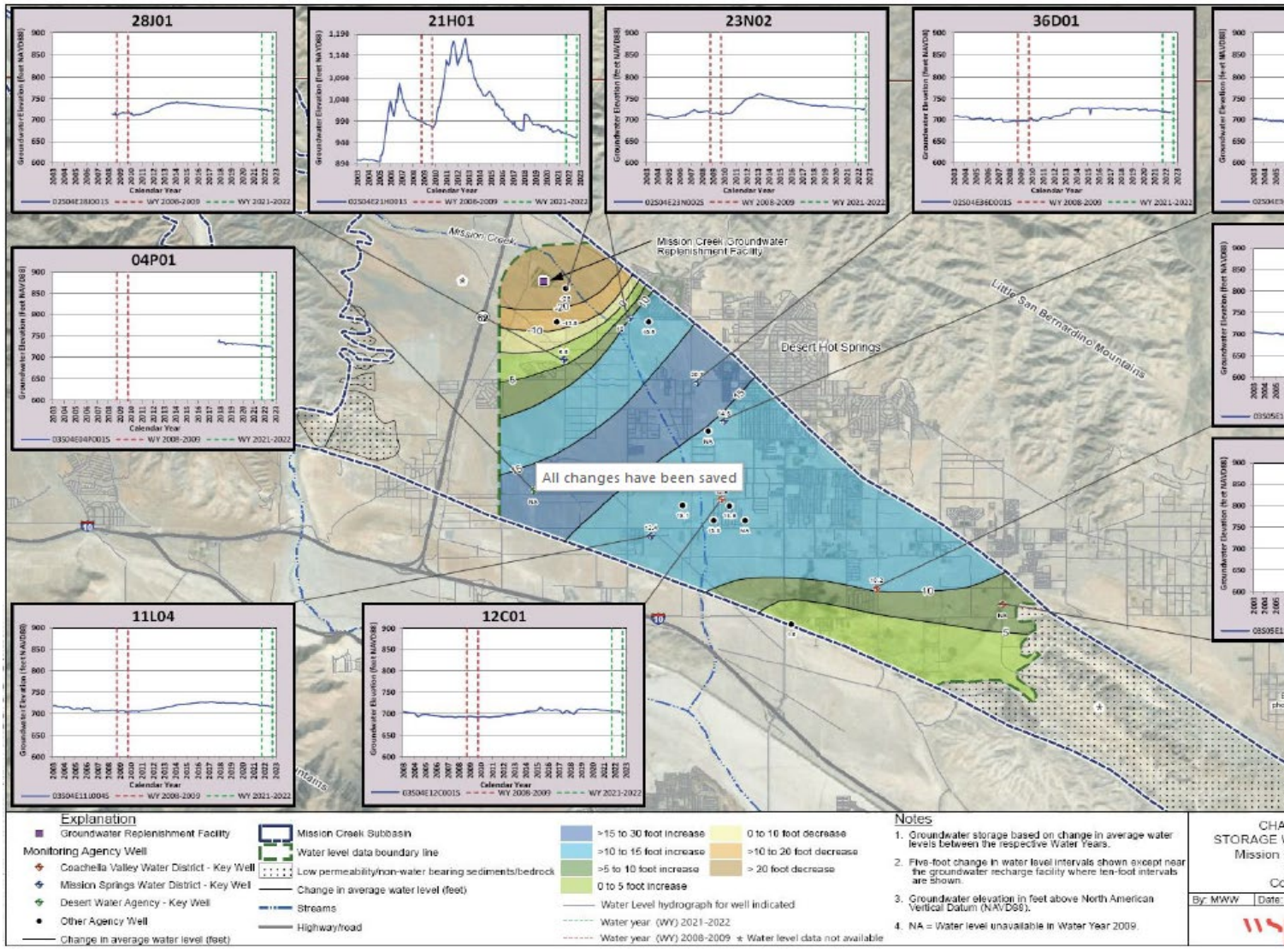
Figure 3-4: Change in the Groundwater Elevation from Water Year 2008-2009 through water year 2021-2022 in the Mission Creek Subbasin



Source: Mission Creek Subbasin Annual Report for Water Year 2021-2022

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3.2 Imported Water

MSWD currently sources all its water from groundwater production and does not purchase imported water from wholesalers. However, CVWD and DWA are addressing groundwater overdraft in the Upper Coachella Valley by replenishing the groundwater basin with imported water from the Colorado River and State Water Project (SWP) Exchange, obtained through the Metropolitan Water District of Southern California (MWD).

These imported water sources are crucial for maintaining groundwater levels and serve as an alternative supply for non-potable uses like agricultural irrigation, golf courses, and urban landscaping. By providing this additional source of water, the reliance on pumping groundwater is reduced, contributing to the sustainable management of the groundwater basin in the Coachella Valley. This strategy helps to balance the basin's water demands and mitigates the risk of overdraft, thus supporting the long-term sustainability of local water resources.

3.2.1 Colorado River Water

The Colorado River has been a vital source of water for the Indio Subbasin since the completion of the Coachella Canal in 1949. Through the groundwater replenishment programs of the Coachella Valley Water District (CVWD) and Desert Water Agency (DWA), billions of gallons of water have been percolated into the aquifer. This significant replenishment effort has been made possible by imported water supplies from the State Water Project (SWP) and the Colorado River, along with long-term water rights to stream flows in the Whitewater River and its tributaries.

Table 3-2 provides a summary of total Colorado River entitlements under existing agreements, highlighting the secured water supplies that support groundwater replenishment and other water demands in the Coachella Valley. These entitlements ensure that local agencies have reliable access to Colorado River water, which is crucial for sustaining the groundwater basin and meeting the region's various water needs. By leveraging these entitlements and coordinating replenishment programs, CVWD and DWA can help maintain a stable and sustainable water supply for the Coachella Valley.

Table 3-2: CVWD Colorado River Entitlements (AFY)

Diversion	2025	2030	2035	2040	2045
Base Entitlement	330,000	330,000	330,000	330,000	330,000
1988 MWD / IID Approval Agreement	20,000	20,000	20,000	20,000	20,000
IID/CVWD First Transfer	50,000	50,000	50,000	50,000	50,000
IID/CVWD Second Transfer[1]	48,000	53,000	53,000	53,000	53,000
Coachella Canal Lining	-26,000	-26,000	-26,000	-26,000	-26,000
Indian Present Perfected Rights Transfer	-3,000	-3,000	-3,000	-3,000	-3,000
QSA Diversions	**419,000**	**424,000**	**424,000**	**424,000**	**424,000**
MWD SWP Transfer[2]	35,000	35,000	35,000	35,000	35,000
Total Diversions	**454,000**	**459,000**	**459,000**	**459,000**	**459,000**
Assumed Conveyance Losses (5%)	-22,700	-22,950	-22,950	-22,950	-22,950
MWD/IID Approval Agreement Transfer[3]	-5,000	0	0	0	0
Total Available Deliveries	**426,300**	**436,050**	**436,050**	**436,050**	**436,050**

Source: 2022 Alternative Plan Update for the Indio Subbasin
[1] The Second IID/CVWD Transfer began in 2018 with 13,000 AF of water. This amount increases annually by 5,000 AFY for a total of 53,000 AFY in 2026.
[2] The 35,000 AFY MWD/CVWD SWP Transfer may be delivered at either Imperial Dam or Whitewater River and is not subject to SWP or Colorado River

reliability.
[3] Accounts for -5,000 AFY reduction in MWD/IID Approval Agreement deliveries from 2020-2026 per the 2019 Amendments with MWD.

The Colorado River deliveries to CVWD at the Imperial Dam / Coachella Canal from 2018 through 2022 are shown in **Table 3-3**.

Table 3-3: Colorado River Deliveries to CVWD at the Imperial Dam/Coachella Canal

Diversions (AF)	2018	2019	2020[1]	2021[1]	2022[1]
Imperial Dam / Coachella Canal	338,035	343,971	350,618	351,904	330,387

Source: U.S. Bureau of Reclamation, Lower Colorado Region, Colorado River Accounting and Water Use Reports for Arizona, California, and Nevada
[1] The 15,000 AFY of 1988 MWD/IID Approval Agreement water was delivered at WWR-GRF from 2020 to 2022.

CVWD's recharge volumes of Colorado River water from 2020 through 2024 are shown in **Table 3-4**. Due to drought conditions on the Colorado River in 2022, the United States Bureau of Reclamation asked all Colorado River users to achieve an annual reduction of 2 to 4 million AF during the calendar years 2023, 2024, and 2025. The CVWD Board of Directors approve stopping replenishment of the Thomas E Levy GRF in November 2022 for the remainder of 2022 and 2023, 2024, and 2025.

Table 3-4: CVWD Groundwater Recharge of Colorado River Water

Groundwater Recharge (AF)	2020	2021	2022	2023	2024
Thomas E. Levy GRF	37,536	37,971	27,993	0	0
Palm Desert GRF	9,729	10,633	10,949	11,178	11,292
Total	**47,265**	**48,604**	**38,942**	**11,178**	**11,292**

Source: 2025-2026 CVWD Annual Engineer's Reports on Water Supply and Replenishment Assessment.

3.2.2 State Water Project

The SWP, managed by DWR, encompasses 705 miles of aqueducts and conveyance systems stretching from Lake Oroville in Northern California to Lake Perris in Southern California. The SWP has contracts to deliver 4.172 million AFY to its twenty-nine public entity contractors, known as the State Water Contractors.

In 1962 and 1963, DWA and CVWD entered contracts with the State of California to receive a total of 61,200 AFY of SWP water. SWP water has played a significant role in the Coachella Valley's water supply mix since CVWD and DWA started receiving and recharging SWP exchange water at the Whitewater River Groundwater Replenishment Facility (WWR-GRF). Since 1973, CVWD and DWA have exchanged their SWP water with MWD for Colorado River water delivered through MWD's Colorado River Aqueduct. As CVWD and DWA do not have a direct connection to SWP conveyance facilities, MWD delivers CVWD's and DWA's SWP water and, in exchange, sends an equivalent volume of Colorado River water to the Whitewater Service Connections, used for recharge at WWR-GRF and the Mission Creek Groundwater Replenishment Facility.

The exchange agreement was most recently re-established in the 2019 Amended and Restated Agreement for Exchange and Advance Delivery of Water. Each SWP contract has a "Table A" exhibit, which outlines the maximum annual amount of water each contractor can receive, excluding certain interruptible deliveries. DWR uses Table A amounts to allocate available SWP supplies among contractors and to distribute SWP project costs. Each year, DWR determines the amount of water available for SWP contractors based on factors such as hydrology, reservoir storage, water rights licenses and permits, water quality, and

environmental requirements for protected species in the Sacramento-San Joaquin River Delta (Delta). The available supply is then allocated according to each contractor's Table A amount.

Initially, CVWD and DWA had combined Table A allocations of 61,200 AFY. However, with additional water transfers and purchases, their total SWP Table A allocation now stands at 194,100 AFY. These additional allocations were acquired through various agreements, including a 100,000 AFY transfer from MWD under the 2003 Exchange Agreement, and purchases from the Tulare Lake Basin Water Storage District in Kings County, and the Berrenda Mesa Water District in Kern County. Table 3-5 details the combined Table A allocations for CVWD and DWA.

Tables 3-6 and 3-7 provide further information on the percent allocation of SWP Table A allocations and the recharge of SWP Exchange Water from 2018 through 2022, respectively. These tables illustrate the distribution of SWP water among contractors and the replenishment rates, reflecting the role of SWP in supporting groundwater sustainability in the Coachella Valley.

Table 3-5: State Water Project Table A Allocations

	Original SWP Table A (AFY)	Tulare Lake Basin 2004 Transfer (AFY)	Metropolitan Water District 2003 Transfer (AFY)	Tulare Lake Basin 2007 Transfer (AFY)	Berrenda Mesa 2007 Transfer (AFY)	Total (AFY)
CVWD	23,100	9,900	88,100	5,250	12,000	138,350
DWA	38,100	0	11,900	1,750	4,000	55,750
Total	**61,200**	**9,900**	**100,000**	**7,000**	**16,000**	**194,100**

Source: 2020 Coachella Valley RUWMP

Table 3-6: State Water Project Table A Percent Allocations

	2022	2023	2024	2025	2026[1]
Table A Allocation	5%	100%	40%	50%	30%

Source: CA Department of Water Resources Historical Table A Allocations for Years 1996-Present

1. Allocation announcement as of January 29, 2026.

Table 3-7: CVWD and DWA Groundwater Recharge

Groundwater Recharge (AF)	2020	2021	2022	2023	2024
Whitewater River GRF	126,487[1]	15,006[1]	15,011[1]	219,745	290,235
Mission Creek GRF	1,768	0	0	5,275	12,640
Total	**128,255**	**15,006**	**15,011**	**225,020**	**302,875**

Source: CVWD 2025-2026 Annual Engineer's Reports on Water Supply and Replenishment Assessment
[1] Between 2020 and 2022, the 15,000 AFY of 1988 MWD/IID Approval Agreement water was delivered at Whitewater River GRF.

3.2.3 Other State Water Project Water

There are other types of SWP water that can be purchased, such as individual water purchase opportunities and transfers/exchanges. These may be conveyed to CVWD and DWA as available, but no commitments exist.

3.3 Surface Water

MSWD does not currently use or intend to use any local surface water as part of its urban potable water supply. Local runoff is captured and used for groundwater recharge.

3.3.1 River/Stream Diversion

Surface water supplies in the Coachella Valley come from several local rivers and streams, including the Whitewater River, Snow Creek, Falls Creek, Chino Creek, and several smaller creeks and washes. These surface water sources can vary from year to year due to fluctuations in annual precipitation. The 50-year hydrologic period from 1970 to 2019 had an annual average of 52,506 AFY in watershed runoff, with approximately 43,300 AFY naturally infiltrating into the groundwater basin.

However, the 25-year period from 1995 to 2019 saw lower-than-average runoff, with 39,196 AFY in watershed runoff and 29,200 AFY in natural infiltration. This demonstrates the natural variability in surface water supplies due to climatic conditions.

Although these surface water supplies are important for groundwater recharge, MSWD does not currently use, nor does it plan to use, local surface water for its urban potable water supply. Instead, local runoff is typically captured and used for groundwater recharge, contributing to the sustainable management of groundwater resources in the region. By allowing natural infiltration and facilitating groundwater replenishment, the district helps maintain a balance between surface water and groundwater supplies.

3.3.2 Stormwater Capture

The Coachella Valley drainage area is a mix of mountainous terrain (approximately 65 percent) and typical desert valley with alluvial fan topography (approximately 35 percent), which buffers the valley floor from steep mountain slopes. The mean annual precipitation varies significantly, ranging from over 30 inches in the San Bernardino Mountains to less than 3 inches near the Salton Sea. The area experiences three types of storms that produce precipitation: general winter storms, general thunderstorms, and localized thunderstorms. Longer duration, lower intensity rainfall events typically lead to higher groundwater recharge, while flash flooding can result from all three storm types. Otherwise, there is usually little to no flow in most streams in the area.

The CVWD has set up systems to capture significant amounts of local runoff at the WWGRF, the Mission Creek GRF, and in debris basins and unlined channels throughout the western Coachella Valley. Additional stormwater will be captured upon completion of the Thousand Palms Flood Control Project, and once flood control is built in the Oasis area.

However, limited data is available to estimate how much additional stormwater could be captured with new facilities in the Coachella Valley. Additionally, large-scale stormwater capture projects are generally not expected to yield enough water to justify the investment on their own. In contrast, small-scale stormwater retention systems, located in geologically suitable areas to allow percolation, could potentially capture smaller intensity storms and street runoff. The exact potential yield of these systems is not well understood at this time, but stormwater capture should be considered in conjunction with projects that build stormwater and flood control infrastructure.

Considering these factors, while large-scale stormwater capture might not be cost-effective as a stand-alone project, small-scale systems and integration with existing and future flood control projects offer a more viable path for capturing stormwater and contributing to groundwater recharge in the Coachella Valley.

3.4 Wastewater and Recycled Water

Highly treated and disinfected wastewater, also known as recycled water, can be reused for various purposes such as landscape irrigation. In the Coachella Valley, recycled water has been used for irrigating golf courses and municipal landscaping since the 1960s. As the region continues to grow, particularly in the eastern Coachella Valley, the availability of recycled water is expected to increase, providing additional opportunities to expand local water supply resources.

MSWD operates two wastewater treatment plants. The Horton Wastewater Treatment Plant (Horton WWTP), located on Verbena Drive about half a mile south of Two Bunch Palms Trail, has a treatment capacity of 2.3 million gallons per day (MGD). The plant uses an extended aeration process for wastewater treatment and disposes of secondary wastewater, which is not disinfected, in nearby percolation/evaporation ponds. Sludge generated during treatment is processed using a dewatering sludge filter press and then transported offsite for disposal. The average daily flow into Horton WWTP in 2020 was approximately 2.0 MGD.

The Desert Crest Wastewater Treatment Plant, located about half a mile southeast of the intersection of Dillon Road and Long Canyon Road, has a smaller capacity of 0.18 MGD, serving a country club development and a mobile home park. It operates similarly to Horton WWTP, using aeration for treatment and disposing of non-disinfected secondary wastewater into percolation/evaporation ponds. The sludge is dried in on-site beds and then trucked offsite for disposal. The average daily flow at this plant in 2020 was about 0.05 MGD.

Both treatment plants use an extended aeration process and dispose of non-disinfected secondary wastewater in ponds on the southwest (potable water) side of the Mission Creek Fault. Additionally, some effluent is used for irrigation and maintenance at the treatment plants.

The Nancy Wright Regional Water Reclamation Facility (Regional WRF) began operations in early 2025 and represents a major investment in regional wastewater infrastructure. The Regional WRF is a 1.5 MGD Sequence Batch Reactor treatment plant constructed on approximately 60 acres of District-owned property between 19th and 20th Avenues in Desert Hot Springs. The project included construction of a regional conveyance pipeline to direct flows to the new facility. The Regional WRF provides modern secondary treatment and was designed to allow for future expansion, including the implementation of tertiary treatment facilities to produce recycled water meeting Title 22 standards. This recycled water can then be used for replenishing the Mission Creek Subbasin and irrigating public green areas, golf courses, and playing fields. This facility significantly enhances system reliability, operational flexibility, and long-term capacity planning.

The Regional WRF receives a portion of MSWD's wastewater flows and sends the water through percolation ponds for groundwater recharge after treatment. This reduces the hydraulic loading on the older treatment plants and positions MSWD for future recycled water and groundwater recharge initiatives. For calendar year 2025, the Regional WRF averaged approximately 0.18 MGD as flows were gradually transitioned to the new facility following startup, for a total 49.66 MG by the end of December 2025.

The recycled water system, including the NWRWRF, is anticipated to expand to meet a demand of 5,000 AFY by 2045, based on recycled water demands and projected system wastewater flows. This strategic expansion of recycled water use will support sustainable water management in the Coachella Valley.

3.5 Conservation

Water conservation, along with the resulting reduction in groundwater production, is essential for the sustainability of the groundwater basin. It plays a significant role in the Alternative Plans and the 2020 Regional Urban Water Management Plan (RUWMP). The RUWMP is designed to help six agencies meet

Urban Water Management Plan (UWMP) requirements, originating from California's Urban Water Management Planning Act of 1983. These requirements have since evolved with additional legislation, requiring agencies to update their UWMP every five years and submit it to the California Department of Water Resources (DWR), which reviews the plans to ensure compliance with the California Water Code (CWC).

Water conservation efforts designed to reduce water use by MSWD retail customers are documented in the RUWMP. MSWD is not a wholesale provider and therefore does not provide demand management measures for wholesale customers. Demand management measures documented in the 2020 RUWMP along with their corresponding implementation status is shown in Table 3-8, MSWD Demand Management Measures.

Table 3-8 - MSWD Demand Management Measures[1]

Demand Management Measure	Program Description	Implementation Status
Water Waste Prevention Ordinances	In 2004, MSWD adopted two major conservation policy statements: a water conservation master plan and water efficient landscaping guidelines. The Water Conservation Master Plan identifies several key areas in which MSWD will pursue more efficient water use practices, namely: efficient landscaping guidelines; efficient landscaping requirements for new development; and xeriscape demonstration garden; efficient landscaping incentives; conservation education programs in schools, community and monthly billing information; tiered water pricing that encourages conservation; updated water shortage ordinance; and rebates for turf replacement, smart irrigation controllers and water efficient appliances, including low flow toilets and clothes washers.	Since 2020, the rebate program has removed over 72,000 square feet of turf, which was replaced with water efficient desert landscaping with a potential to save over 4 million gallons of water per year, and over 76 toilets were removed and replaced with highly efficient toilets that have a potential 20% reduction in water use.
Metering	MSWD maintains water meters on all residential, commercial, industrial, and municipal connections to MSWD's water distribution system. MSWD has an aggressive meter replacement program. Meters are re-built or replaced on a multi-year cycle to ensure accuracy and proper functioning. MSWD's water system is fully metered.	MSWD completes annual checks on the accuracy and operation of production meters by either recalibrating and reinstalling meters, or by replacing meters that do not fall within the required operating range of AWWA standards. Monthly non-revenue water is accounted for. In 2020, MSWD completed a system-wide upgrade to advanced metering infrastructure (AMI), which allows for the direct transmission of water use data between the point of consumption and the utility. As such, AMI provides a higher level of accuracy, eliminates the need to manually read water meters, improves overall efficiency of operations, and allows for the identification of potential leaks.

Conservation Pricing	The District has a tiered rate structure for water service intended to discourage high water use. The District may also enact a drought surcharge, as required by Statewide drought measures. For example, during the 2016 California Drought, the District implemented a temporary $0.05 per hundred cubic feet drought surcharge, consistent with State drought requirements. Most of the District's water customers also receive sewer service from District.	The District imposes rates for sewer service based on maximum potential water usage, billed at a uniform rate for residential customers. Commercial sewer service fees are based on water usage and also promote water conservation.
Public Outreach and Education	The District maintains a website titled MSWD.org which provides information regarding: Methods to reduce water use; • Watering restrictions; • A dedicated conservation page; • A water efficient planting database; • An evaporative cooler maintenance program and primer; • Fines and surcharges associated with violation of watering restrictions; • Water rebates for installing certain water saving devices and turf removal; and • Other frequently asked questions regarding water use and conservation MSWD has partnered with Southern California Edison (SCE) and SoCal Gas Company (SCGC) in school education outreach programs that provide information to children to learn the importance of water conservation.	The extent of the District's involvement in programs for public education and outreach has not been quantified. As the program matures and the program is further developed, the District will have a better understanding of the extent of the overall program. The District runs a continual advertising campaign focusing on conservation. These advertisements appear in both regular as well as periodic publications. Public education and outreach also extend to social media outlets such as Facebook, Nextdoor, Instagram, Twitter, LinkedIn and the CV Water Counts website and social media outlets. The Desert Hot Springs community has three Groundwater Guardian Teams and a Groundwater Guardian Affiliate. Designation as a Groundwater Guardian Community is presented by The Groundwater Foundation to communities which demonstrate an ongoing participatory approach to protecting groundwater resources.

Programs to Assess and Manage Distribution System Real Losses	The District employs various operational policies to efficiently manage its water supply, including monthly water service monitoring, daily facility inspections, and annual visual checks of easements and pipelines. Water audits and leak detection are conducted regularly, utilizing field surveys, a telemetry system, and an Advanced Metering Infrastructure (AMI) system. The District also promotes leak prevention through customer education, providing free dye tablets and water conservation kits. Efforts are made to bill appropriate parties for water losses from damaged infrastructure. Currently, unaccounted-for water losses are about 13.5%, with ongoing reviews to ensure these losses remain low. The District undertakes various maintenance and operational programs, including leak detection, meter replacement, system flushing, and reservoir and valve maintenance, as outlined in the 2004 Water Conservation Master Plan. Notable projects include the Desert Willow waterline replacement and ongoing service line replacements due to leaks. The District also installed seismic valve controls on reservoirs and flow meters at well sites to track water loss and promote groundwater recharge. Since 2019, the implementation of AMI has reduced the need for technician visits by providing real-time flow data, improving issue resolution with customers.	The District conducts monthly monitoring of all water services. In addition, daily inspection of all facilities such as pump stations, wells, reservoirs, valve vaults, etc., is completed. On an annual basis, visual inspection of all easements and pipeline alignments is accomplished. A budgeted service line replacement program has been ongoing since 2010. The extent of the District's involvement in programs to assess and manage distribution losses has not been quantified. As the program matures and the program is developed, the District will have a better understanding of the extent of the overall program.
Water Conservation Program Coordination and Staffing Support	The District has designated the Programs and Public Affairs Associate responsible for implementing both the conservation master plan as well as monitoring progress in fulfilling DMMs and a state conservation order. The District continues to be involved in water conservation programs and coordinates with the four other water agencies of the Coachella Valley through the Coachella Valley Regional Water Management Group and CV Water Counts (www.cvwatercounts.com) regional conservation group.	MSWD, amongst other Coachella Valley water agencies, are part of CV Water Counts, a nonprofit collaborative that was formed to focus on water conservation, through awareness and education programs for Coachella Valley residents, businesses, and government. In February 2020, CV Water Counts reported that since June 2015, the Coachella Valley has saved more than 50 billion gallons of water.

Other Demand Measures	The District, in collaboration with SCE and SCGC, offers water conservation programs for residential, landscape, and commercial customers, including water use audits, plumbing rebates, and turf conversion incentives. It conducts large landscape irrigation surveys under its Efficient Landscaping Guidelines and mandates water-efficient practices for new and rehabilitated landscapes. The District also collaborates regionally, contributing to the Coachella Valley-Wide Water Efficient Landscape Ordinance and the Riverside County Water Use Efficiency Ordinance. Resources and tools are provided to residents for creating desert-friendly landscapes, with a focus on water-wise plant materials and efficient irrigation systems.	In 2015-2016 MSWD implemented a Turf Rebate Program to incentivize the removal of high-water consuming turf grass (and/or significant groundcover plant materials that are similar in water demand) and replaced it with desert-friendly, water-efficient landscaping. The program was available to all MSWD customers; including a residential component for single family homes, a commercial component that included for-profit and non-profit businesses and multi-family housing, and a public-properties component included all municipal properties and those considered public, such as parks, medians, government buildings, schools and similar properties. The intent was to replace turf with aesthetically pleasing desert landscaping and reduce water consumption and water runoff as well as increase education about water conservation and desert friendly landscaping. Residents could earn up to $3,000 in rebate per project and commercial property owners could receive up to $10,000 per project. Each project would receive $2 per square foot of turf removed and were required to pay a minimum of 35% of the project expenses. As demand is again increasing for such a program, MSWD is opening it back up in Spring 2021. Also in 2016, MSWD implemented a Plumbing Retrofit Rebate Program for the sole purpose of reducing domestic water consumption through

		incentivizing the installation of water efficient plumbing fixtures, such as replacing toilets that used at least 3 gallons per flush and replacing shower heads and faucet aerators with "WaterSense" approved fixtures. The plumbing program was open to residential, multi-family and commercial customers. Beginning in 2020, MSWD has opened up the Plumbing Retrofit Rebate Program to provide customers with a greater opportunity to participate in efficient water use. Lastly, MSWD completed an Evaporative Cooler and Maintenance Program in 2016 to further combat water waste. Evaporative coolers can use between 3 and 15 gallons per hour, and the program was aimed at providing maintenance to existing systems and disseminating information to residents on efficient use.
Enhanced Rebate Offerings	In 2024, Mission Springs Water District created a rebate offer program to promote water conservation. The newly created rebate offerings include the following: • Wash More Using Less: Customers can receive a $150 rebate by upgrading to a water-efficient washing machine with a six (6) or lower water factor. • Replace and Save: MSWD offers two rebates for replacing old, inefficient toilets with water-efficient models. ○ Ultra-Low Flow Toilets: Replace your old toilet with a new model that uses 1.28 gallons per flush (GPF) or less and receive up to a $100 rebate. ○ Premium High-Efficiency Toilets: Upgrade to premium models using 1.1 GPF or less or dual flush models using	This program is new and as a result the data on implementation outcomes is not yet available.

1.1/1.6 GPF or less and receive up to a $150 rebate.

- Take Charge with Smart Irrigation Controllers: Upgrade irrigation systems with weather-based smart controllers featuring rain shut-off capability. Rebates are available for residential and commercial customers, with reimbursements of up to $150 for devices, up to $100 for professional installation for single-family homes, and up to $5,000 for commercial or HOA properties.
- Rethink Your Grass: MSWD continues to offer $2 per square foot for grass/turf replacements, encouraging customers to rethink traditional landscaping choices.

[1] Source: 2020 Coachella Valley Regional Urban Water Management Plan; MSWD Announces Enhanced Rebate Offerings | Mission Springs, CA Water District

Through the implementation of MSWD conservation ordinances and measures, the 2020 RUWMP identifies the total per-capita District water use has significantly dropped from 308.1 GPCD in 2005 to 216.0 GPCD in 2010 to 172.1 GPCD in 2015 (a reduction of 44.1% since 2005). Residential per-capita MSWD water use has also significantly dropped from 189.8 GPCD in 2005 to 160.4 GPCD in 2010 to 121.1 GPCD in 2015 (a reduction of 36.2% since 2005). MSWD has surpassed the required 20% reduction for 2020, the year in which the RUWMP was last updated.

MSWD developed and adopted a Water Shortage Contingency Plan (WSCP) in June 2021 to address water shortages and conservation measures (Section 3.7). MSWD offers various rebate programs to promote water conservation within its service area, such as turf removal rebates and toilet replacement rebates. These programs help homeowners, homeowner associations, and commercial customers reduce their water usage, contributing to broader conservation efforts.

Additionally, MSWD is a partner in CV Water Counts, a nonprofit organization dedicated to promoting water conservation through awareness and education. CV Water Counts aims to raise awareness among Coachella Valley residents, businesses, and local governments about the importance of water conservation. The group comprises six Coachella Valley water agencies, each committed to reducing water usage and promoting sustainable water management practices.

These combined efforts in water conservation, rebate programs, and public awareness initiatives contribute to a more sustainable approach to managing groundwater resources in the Coachella Valley.

3.6 Landscape Ordinance

To ensure effective water conservation, the Project would follow the MSWD Water Efficient Landscaping Guidelines, also known as the Landscape Guidelines. These guidelines aim to promote water conservation by encouraging the use of climate-appropriate plants and efficient irrigation practices. They comply with the State of California's Water Conservation in Landscaping Act. The Landscape Guidelines apply to various types of new and rehabilitated landscapes, including private, recreational, and commercial developments, as well as single- or multifamily housing developments and residential infill, unless the owner opts for a pre-approved landscape design model that meets the guidelines' criteria.

In Exhibit 1, the Landscape Documentation Package, the Landscape Guidelines provide a formula to determine a project's annual Maximum Applied Water Allowance (MAWA). This formula helps assess the total water demand for the Project based on specific landscaping and irrigation factors. The calculation uses the most current evapotranspiration rate (ETo) map for the region, ensuring accuracy in estimating water needs for landscaping. Additionally, the document includes the most recent ETo adjustment factor for the region to ensure the proper allowance for outdoor irrigation.

The application of these guidelines and their related tools, such as the formula for MAWA and ETo data, helps ensure that the Project's landscaping and irrigation practices align with best practices for water conservation. This contributes to sustainable water use in the Coachella Valley and supports the broader goals of groundwater preservation and efficient water management. The projected outdoor irrigation water demand for the Project is presented in **Table 6-2**, as referenced in the Project Water Demands section.

3.7 Water Shortage Contingency Planning

Table 3-9 outlines different levels of anticipated reductions in water supplies available to the Mission Springs Water District (MSWD). These reductions could result from various causes, such as natural forces (e.g., droughts or extreme weather), system component failures or interruptions, regulatory actions, contamination, or a combination of these factors. Depending on the cause, severity, and expected duration of the water supply shortage, MSWD may need to activate these shortage levels across its entire service area or only in specific areas impacted by an event.

Each level includes a set of voluntary and mandatory conservation measures and restrictions to mitigate the effects of the shortage. These measures aim to reduce water consumption and balance the gap between water supplies and demands. Depending on the shortage level, the response actions could include water use restrictions, water conservation outreach, irrigation limitations, and other targeted actions to manage the shortage effectively.

The specific response actions for each shortage level are detailed in the following section, providing a guide for how MSWD would address water supply shortages to maintain water service while promoting conservation. These actions are crucial to ensuring that MSWD can adapt to varying conditions and continue to serve its customers during times of water scarcity.

Table 3-9: Urban Water Shortage Contingency Plan Shortage Levels

Shortage Level	Shortage Range	Water Supply Condition
1	Up to 10%	Normal Water Supplies
2	Up to 20%	Slightly limited water supplies
3	Up to 30%	Moderately limited water supplies
4	Up to 40%	Limited water supplies
5	Up to 50%	Significantly limited water supplies
6	Greater than 50%	Severe shortage or catastrophic incident

Source: 2021 MSWD Water Shortage Contingency Plan

4 Public Water System – Projected Supply and Demand

The MSWD expects to continue sourcing most of its urban potable water from local groundwater. Unlike other districts, MSWD does not purchase imported water from wholesalers. However, the CVWD has secured imported water supplies from the SWP and the Colorado River, along with recycled water from water reclamation plants. These imported and recycled water resources play a crucial role in replenishing the groundwater basin, which benefits all water districts across the Coachella Valley.

The replenishment of the groundwater basin with imported water and recycled water contributes to the sustainability and stability of the region's water supply. This process helps maintain adequate groundwater levels, ensuring that MSWD and other districts in the area can continue to meet the water needs of their customers while promoting long-term water resource management. These efforts highlight the collaborative approach in the Coachella Valley to secure diverse water sources and support groundwater sustainability.

4.1 Projected Urban Supply and Demand

The following tables from the 2020 RUWMP provide the MSWD's projected water supplies and demands. Projected demand for water use in the MSWD service area are summarized in **Table 4-1**.

Table 4-1: MSWD Projected Demands for Water

	Projected Water Use				
Use Type	**2025**	**2030**	**2035**	**2040**	**2045**
Single-Family	4,743	5,143	5,543	6,066	6,588
Multi-Family	1,316	1,427	1,538	1,683	1,828
Commercial	459	498	537	587	638
Industrial	298	323	348	381	413
Institutional/Governmental	179	194	209	229	249
Landscape	984	1,067	1,150	1,258	1,366
Other	1,017	1,102	1,188	1,300	1,412
Total	8,996	9,754	10,513	11,504	12,494

Note: "Other" represents non-revenue water, which includes losses.
Source: 2020 Coachella Valley RUWMP

MSWD obtains 100 percent of its water supply from groundwater production and does not rely on imported water from wholesalers. However, to address groundwater overdraft in the Upper Coachella Valley, the Coachella Valley Water District CVWD and DWA are replenishing the basin with water from the Colorado River and SWP Exchange through the MWD.

MSWD's groundwater generally meets all Federal and State primary and secondary water quality standards without additional treatment, except for chlorination for disinfection. However, groundwater from Well No. 26A, which does not serve the portion of MSWD's service area in which the project is located, is treated at the well site to comply with the primary water quality standard for uranium. This demonstrates that MSWD maintains a high standard for water quality, ensuring safety for its customers.

Looking ahead, MSWD plans to expand its recycled water infrastructure, including tertiary treatment facilities, at the Nancy Wright Regional Water Reclamation Facility (NWRWRF). This is expected to support future deliveries of recycled water, contributing to sustainability and diversified water sources.

The projected water supplies for MSWD through 2045 are presented in **Table 4-2**. This table outlines MSWD's anticipated sources and volumes of water supply, reflecting a comprehensive approach to meeting current and future water demands while maintaining the quality and sustainability of groundwater resources. The addition of recycled water infrastructure signifies MSWD's commitment to addressing future water needs through innovative solutions and sustainability-focused planning.

Table 4-2: MSWD Projected Urban Water Supply

		Projected Water Supply (AFY)				
Water Supply	**Additional Detail on Water Supply**	**2025**	**2030**	**2035**	**2040**	**2045**
Groundwater	All Subbasins	8,996	9,754	10,513	11,504	12,495
Recycled Water		0	1,120	2,200	3,600	5,000
Total		**8,996**	**10,964**	**12,713**	**15,104**	**17,495**

Source: Coachella Valley RUWMP

4.2 Normal, Single-Dry, Multiple-Dry Year Comparison

The following tables from the 2020 RUWMP provide MSWD's projected water supplies and demands in a normal year, single-dry year, and multiple-dry years. During normal years, MSWD will be able to meet current and future urban water demand needs projected in the 2020 RUWMP as shown in **Table 4-3**.

Table 4-3: Normal Year Supply and Demand Comparison

	2025	**2030**	**2035**	**2040**	**2045**
Supply Totals (AFY)	8,996	10,874	12,713	15,104	17,495
Demand Totals (AFY)	8,996	10,874	12,713	15,104	17,495
Difference	**0**	**0**	**0**	**0**	**0**

Source: 2020 Coachella Valley RUWMP
Note: MSWD and the other RUWMP agencies collaborate on groundwater management plans for long-term sustainability. During a normal year, single-dry year, or five-dry year period, the agencies could produce additional groundwater if demands exceed the estimates shown here.

During single-dry years, the MSWD can meet both current and future urban water demand, as shown in **Table 4-4**. Water supplies during a single-dry year are considered 100 percent reliable due to the groundwater replenishment programs in place. The CVWD's groundwater replenishment program plays a crucial role in this reliability. It replenishes the basin during wet years, which helps increase groundwater storage, ensuring there's enough supply to draw from during dry years. This replenishment strategy benefits all water districts in the Coachella Valley that rely on groundwater, including MSWD.

Because of these replenishment efforts, the comparison between supply and demand for a single-dry year is consistent with that for a normal year. This consistency demonstrates that the region's water management strategies are effective in mitigating the impacts of single-dry years, providing a reliable and sustainable source of water for MSWD and other districts in the Coachella Valley. This approach underscores the importance of groundwater replenishment in ensuring long-term water supply reliability, even during periods of reduced precipitation or drought.

Table 4-4: Single-Dry Year Supply and Demand Comparison

	2025	2030	2035	2040	2045
Supply Totals (AFY)	8,996	10,874	12,713	15,104	17,495
Demand Totals (AFY)	8,996	10,874	12,713	15,104	17,495
Difference	**0**	**0**	**0**	**0**	**0**

Source: 2020 Coachella Valley RUWMP

During multiple-dry years, the MSWD can meet current and future urban water demand through groundwater pumping, as indicated in Table 4-5. Just like with single-dry years, the water supply reliability during multiple-dry years is 100 percent, allowing MSWD to maintain consistent water supply regardless of weather conditions. Consequently, the supply and demand comparison for multiple-dry years mirrors that of a normal year.

This prominent level of reliability stems from the effective groundwater replenishment and management programs in place. MSWD and other agencies involved in the RUWMP work together on groundwater management to ensure long-term sustainability. This collaboration enables them to address fluctuations in water demand and ensure a steady supply, even during extended dry periods.

These collaborative efforts and flexible groundwater management strategies ensure that even during a normal year, a single-dry year, or a period of five consecutive dry years, the agencies have the capability to produce additional groundwater if demands exceed the estimates. This approach underscores the resilience and adaptability of MSWD and its partner agencies in meeting water demand in a variety of conditions, contributing to sustainable water resource management in the Coachella Valley.

Table 4-5: Multiple-Dry Years Supply and Demand Comparison

		2025	2030	2035	2040	2045
First Year	Supply Totals (AFY)	8,996	10,874	12,713	15,104	17,495
	Demand Totals (AFY)	8,996	10,874	12,713	15,104	17,495
	Difference	**0**	**0**	**0**	**0**	**0**
Second Year	Supply Totals (AFY)	8,996	10,874	12,713	15,104	17,495
	Demand Totals (AFY)	8,996	10,874	12,713	15,104	17,495
	Difference	**0**	**0**	**0**	**0**	**0**
Third Year	Supply Totals (AFY)	8,996	10,874	12,713	15,104	17,495
	Demand Totals (AFY)	8,996	10,874	12,713	15,104	17,495
	Difference	**0**	**0**	**0**	**0**	**0**
Fourth Year	Supply Totals (AFY)	8,996	10,874	12,713	15,104	17,495
	Demand Totals (AFY)	8,996	10,874	12,713	15,104	17,495
	Difference	**0**	**0**	**0**	**0**	**0**
Fifth Year	Supply Totals (AFY)	8,996	10,874	12,713	15,104	17,495
	Demand Totals (AFY)	8,996	10,874	12,713	15,104	17,495
	Difference	**0**	**0**	**0**	**0**	**0**

Source: 2020 Coachella Valley RUWMP
Note: Recycled water used for groundwater recharge is presented as a supply and a demand for consistency with DWR reporting framework. The RUWMP participating agencies collaborate on groundwater management plans for long-term sustainability. During a normal year, single-dry year, or five-dry year period, the agencies could produce additional groundwater if demands exceeded the estimates shown here.

5 Project Description

The proposed Project site is located north of Interstate 10 (I-10) and east of State Route 62 (SR-62) in the northern portion of the city of Palm Springs, County of Riverside; refer to **Figure 5-1, Project Regional Vicinity Map**, and **Figure 5-2, Project Vicinity Map**. The site is comprised of five (5) parcels, Accessor Parcel Numbers 666-320-002 -003, -004, -005, and -028 and is bounded by 18th Avenue to the north, North Indian Canyon Drive to the east, and 19th Avenue to the south. Karen Drive is to the west of the site, and the Union Pacific Railroad (UPRR) corridor is approximately one and half (1.5) miles to the south of the site.

The proposed Project would develop an approximately 58.60-acre site with a single 1,092,337 sq. ft. building, including 10,000 sq. ft. of interior "mezzanine" planned office space, truck docking areas and employee parking spaces; refer to **Figure 5-3, Project Site Plan**. The site is located within the southeast corner of 18th Avenue and Karen Avenue. Access to the site will be along North Palm Canyon Drive and 18th Avenue.

The Project would consist of a single approximately 1,092,337 sq. ft. industrial warehouse building with an approximately 10,000 sq. ft. of "mezzanine" space planned for offices. The tilt up concrete building will have 406 truck trailer positions and 174 loading positions along the north and south sides of the building. It will also have 323 standard parking spaces and 10 handicap parking stalls located along the east and north sides of the building. Approximately 17% of the site will have xeriscape landscaping and have an onsite stormwater retention basin along the south boundary, with excess stormwater stored in underground stormwater basins located in the parking lot. The trailer parking and loading dock areas will have an 8-foot-tall steel security fencing enclosing the area.

The site will be accessed via the adjoining but unimproved 18th Avenue, which connects the Project site to North Indian Canyon Drive, one half mile east of the site. Site access from 18th Street is via Indigo Drive, a private road to the east of the site, and an unnamed private road on the west of the site. The site plan also calls for the continuation of Noble drive, a 40-foot-wide private road located on the south side of the site. The design of the traffic circulation system is intended to tie into previously approved improvements associated with a separate warehouse project to the east of the site. The separate project was approved by the City of Palm Springs in early 2025. Should the Project discussed in this WSA begins construction prior to the warehouse project sited to the east of the Project, First Industrial Commerce Center II would be required by the City of Palm Springs to construct the extension of 18th Ave to Indian Canyon Drive.

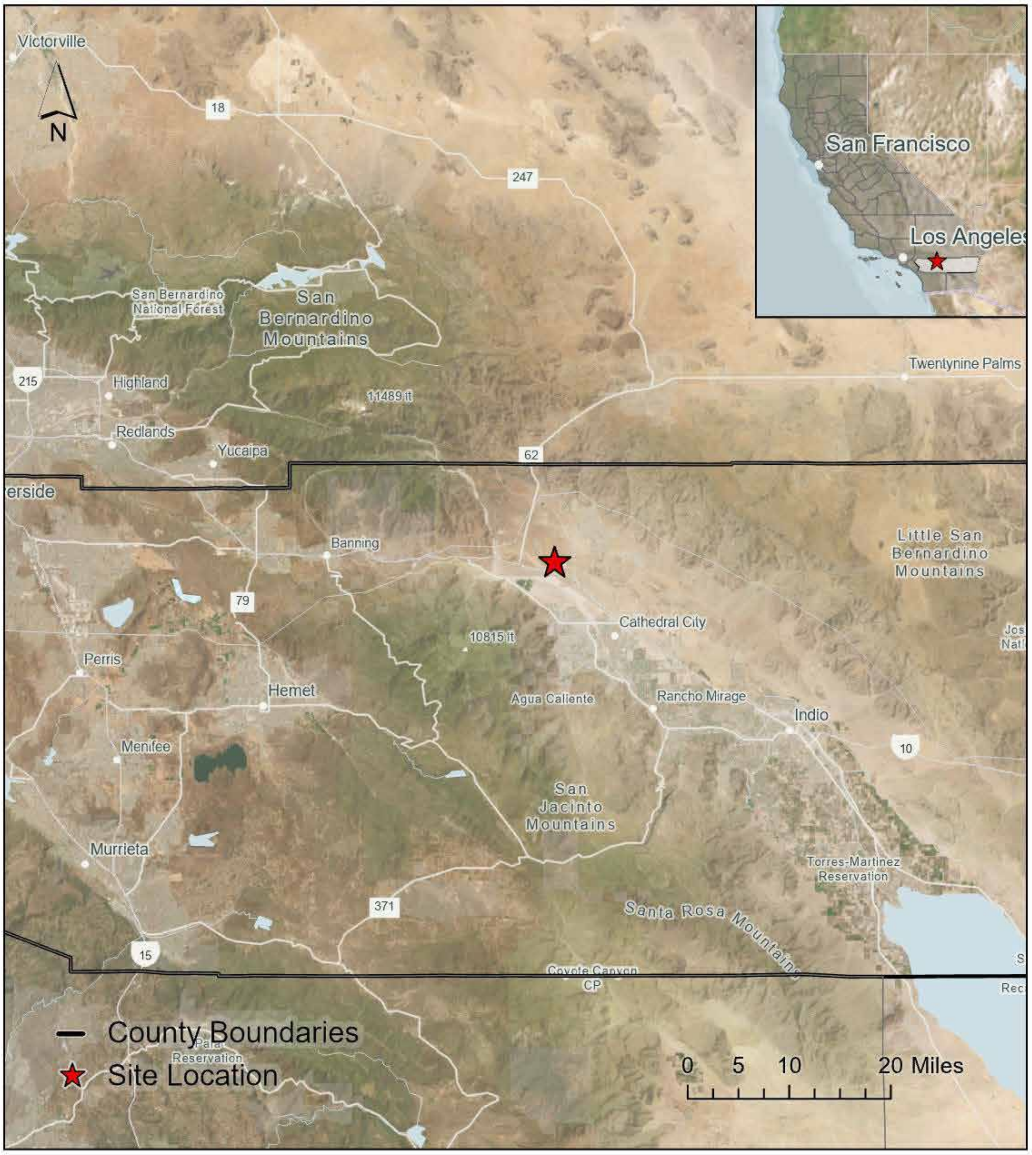
The Project site would be connected to the sewer system that will be extended from existing mains to connect to the site. Infrastructure improvements related to electricity, water, wastewater, will tie into existing city lines off-site.

Table 4-6: Land Use Summary

Land Use	Land Area (Acres)	Target Density (EDUs/Acre)	Estimated Dwelling Units (EDUs)	Non-Residential Building Area (ft2)
Industrial Building Area	25.1	0.00	0	1,092,337
Access Roads/Hardscape/Parking	0	0.00	0	1,013,250
Landscape / Open Space/ Retention Basins	9.6	0.00	0	418,497
Right-of-Way Dedication		0.00	0	0
Total	**34.7**	**0.00**	**0**	**2,524,084**

Figure 5-1: Project Regional Vicinity Map

Figure 5-1: Regional Location



North Palm Springs, City of Palm Springs, CA

MNS

This data was generated by CAL FIRE FRAP, based on a dataset generated by the California Department of Technology (CDT), which used data from California Department of Tax and Fee Administration (CDTFA). Source data downloaded from AGOL on 03/05/2025. See the CDT input for more information about credits., Earthstar Geographics, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

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Figure 5-2: Project Vicinity Map

Figure 5-2: Project Vicinity

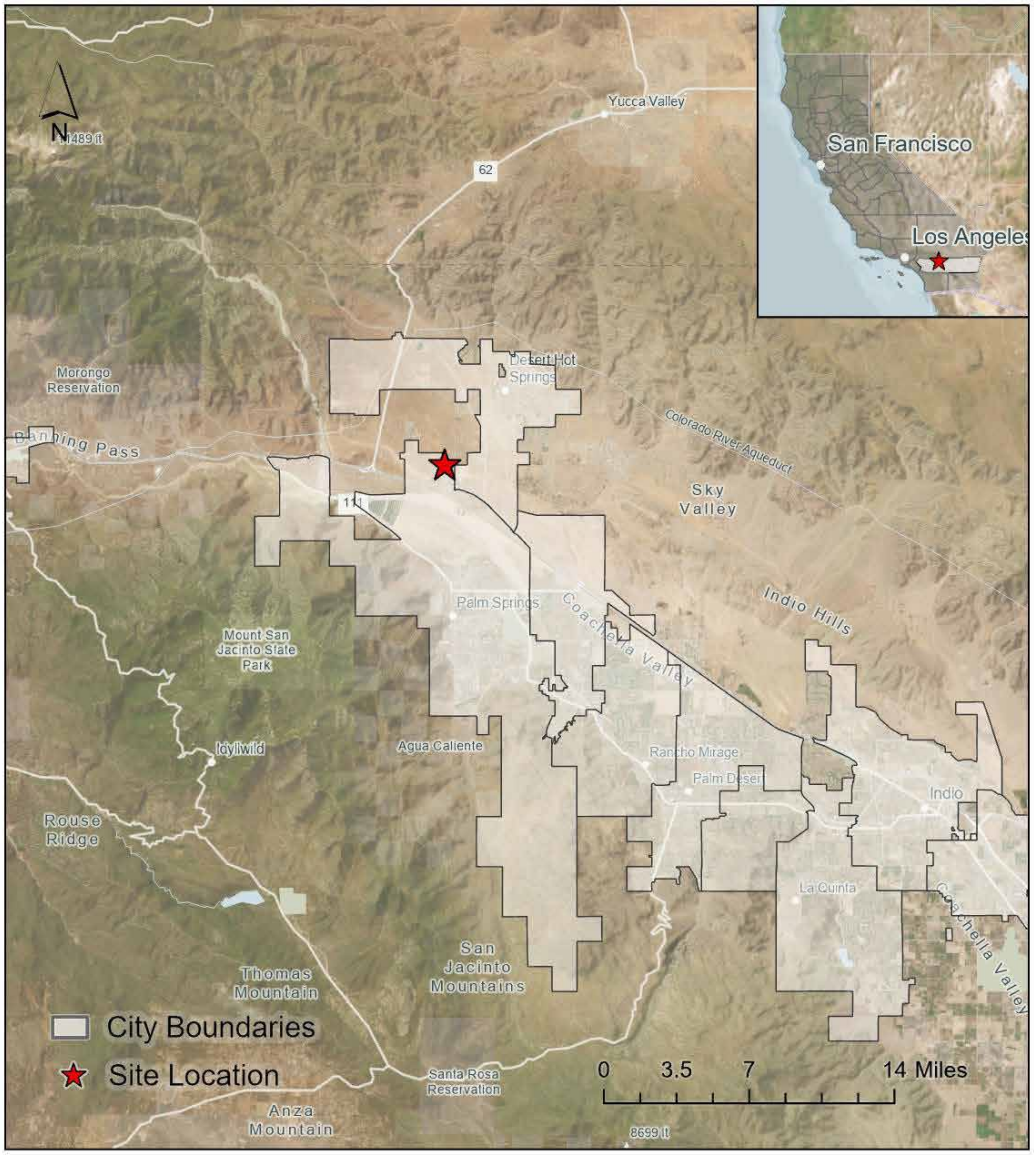

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Figure 5-3: Project Site Location

Figure 5-3: Project Location

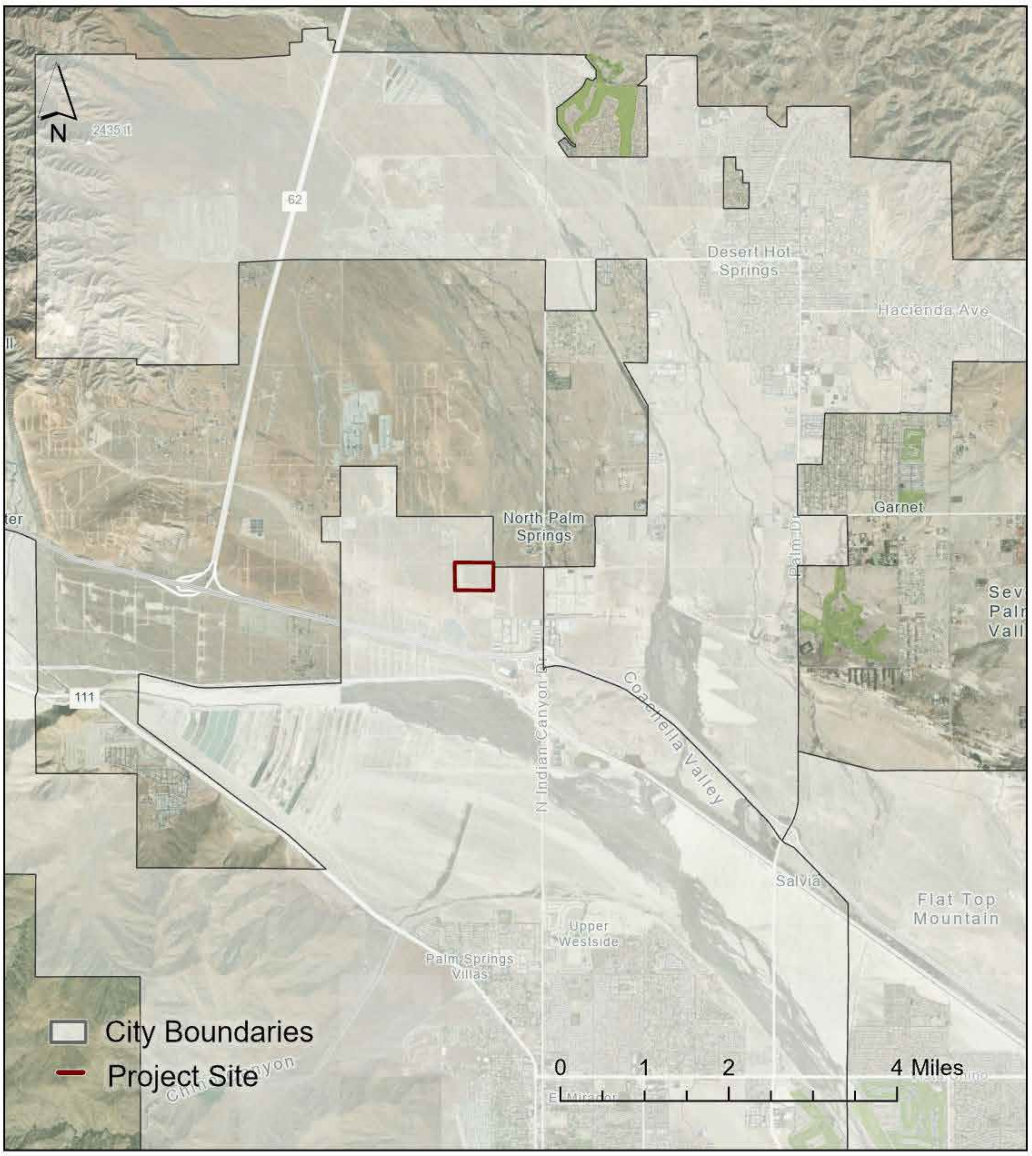

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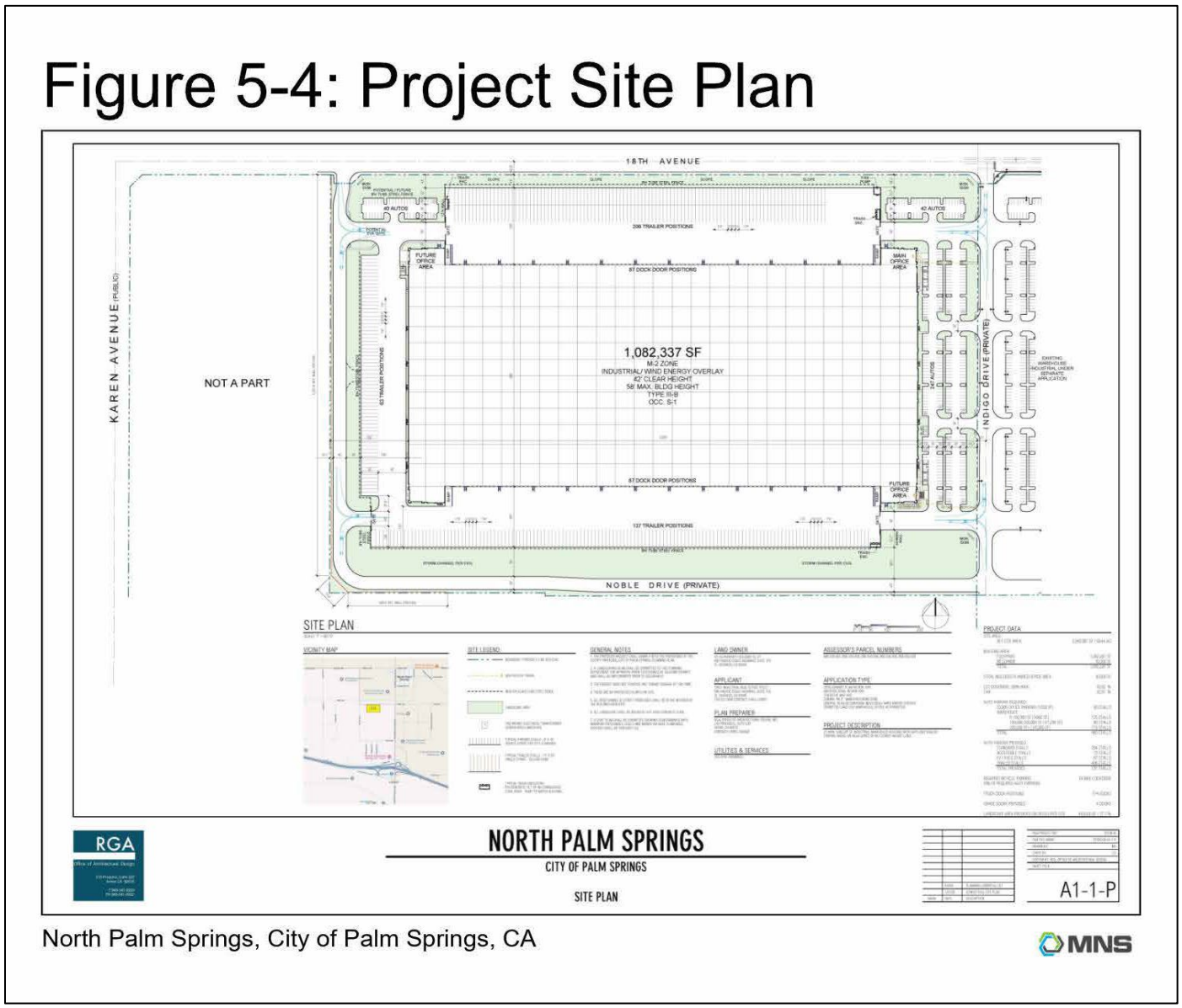
Figure 5-4: Project Site Plan



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6 Project Water Demands

The First Industrial Commerce Center II (Project) would develop 34.7[1] gross acres of disturbed but currently vacant land in the Coachella Valley consisting of 25.1 acres of industrial building area, 23.7 acres of access roads, parking area, and hardscape[2], 9.6 acres of landscaping, open space, and retention basins.

6.1 Projected Indoor Residential Water Demand

The project does not propose any residential land use components; therefore, the projected indoor residential water demand for the Project is 0 AFY.

6.2 Projected Indoor Industrial Water Demand

The projected indoor commercial and industrial water demand for the Project is 61.18 AFY as shown in Table 6-1 below.

The projected indoor water usage for commercial and industrial developments in this WSA is based on the locally adopted Water Demand Factor of 2,000 gpd/acre in Table 5 of the District's 2025 Water Master Plan (in progress). The Water Demand Factor (WDF), of 2,000 gpd/acre is converted to gallons per day per square-foot (gpd/ft^2) rounded to the nearest hundredth (2,000 ÷ 43,4560 = 0.05). Therefore, the WDF of 0.05 gpd/ft^2 is used to estimate the projected commercial and industrial water demand.

This approach provides a safety margin to account for variations in water use patterns and ensures that water supply assessments adequately cover anticipated water demands from commercial and industrial projects.

Table 6-1: Projected Indoor Industrial Water Demand

Planning Area	Indoor Area (ft^2)	Indoor Area (Acres)	Number of Rooms	Maximum Interior Floor Space Per Unit	Water Demand Factor (gal/ft^{2}day)[1][2]	Water Demand (gpd)	Water Demand (AFY)
Industrial Planning Area	1,092,337	25.1.	0	0	0.05	50,616.85	61.18

[1] This is based on a locally adopted Water Demand Factor of 2,000 gpd/acre in Table 5 of the District's 2025 Water Master Plan (in progress).
[2] The Water Demand Factor of 2,000 gpd/acre is converted to gpd/ft^2, rounded to the nearest hundredth (2,000 ÷ 43,4560 = 0.05).

6.3 Projected Outdoor Water Demand

The projected outdoor irrigation water demand for the Project is 29.9 AFY as shown in Table 6-2 below.

To calculate outdoor water demand for the Project, this WSA uses CVWD Ordinance No. 1302.5, *An Ordinance of the Coachella Valley Water District Establishing Landscape and Irrigation System Design Criteria,* which complies with California's Water Conservation in Landscaping Act. This ordinance includes various guidelines and requirements designed to promote water efficiency in landscaping.

[1] There is not water demand generated from the 23.7 acres of access roads, parking area, and hardscape. Landscape required by the City's shading requirements are allocated within the 9.6 acres of landscaping, open space, and retention basins (See Table 6-2)

[2] There is no water demand generated from the 23.7 acres of access roads, parking area, and hardscape. Landscape required by the City's shading requirements are allocated within the 9.6 acres of landscaping, open space, and retention basins (See Table 6-2)

The WSA relies on Appendix C of CVWD Ordinance No. 1302.5, along with MSWD' *Water Efficient Landscaping Guidelines*, specifically Exhibit 1, *Landscape Documentation Package*, to determine a project's annual MAWA. The MAWA formula calculates the maximum allowable water use for landscaping based on climate, plant types, and irrigation efficiency.

To ensure accuracy in estimating outdoor water demand, the WSA references the most current evapotranspiration adjustment factor (ET adjustment factor) for the region. This adjustment factor accounts for variations in local climate and weather conditions, providing a more precise estimate of the water needed for outdoor landscaping and irrigation.

Table 6-2: Projected Outdoor Irrigation Water Demand

Planning Area	Landscaped Area (ft^2)	ETo (in/yr)[1]	ETAF[2]	Conversion Factor (gal/ft^2)	Water Demand (gpd)	Water Demand (AFY)
Industrial Building Area	0	83.3	0.45	0.62	0	0
Access Roads Hardscape/Parking	0	83.3	0.45	0.62	0	0
Landscape / Open Space/ Retention Areas	418,497	83.3	0.45	0.62	26,733	29.9
Right-of-Way Dedication	0	83.3	0.45	0.62	0	0
Total	**418,497**				**26,733**	**29.9**

[1] Reference Evapotranspiration (Eto) from CVWD Landscape Ordinance 1302.5, Appendix C
[2] Evapotranspiration Adjustment Factor (ETAF) from CVWD Landscape Ordinance 1302.5, Appendix C
[3] Conversion Factor from MSWD Water Efficient Landscaping Guidelines, Exhibit 1, Landscape Documentation Package

6.4 Projected Outdoor Water Features Demand

The projected outdoor water features demand for the Project is 0 AFY as there are no outdoor water features proposed.

The projected outdoor recreational water usage is calculated using the Estimated Total Water Usage (ETWU) equation from Appendix D of CVWD Ordinance No. 1302.5.

6.5 Projected Total Water Demand

The total projected water demand for the Project is 91.12 AFY, or 2.63 Acre Feet per Acre (AFA) per acre, shown in Table 6-3 below.

Table 6-3: Projected Total Water Demand

Planning Area	Land Area (Acres)	Indoor Residential Demand (AFY)	Indoor Industrial Demand (AFY)	Outdoor Irrigation Demand (AFY)	Outdoor Recreational Demand (AFY)	Total Water Demand (AFY)	Total Water Demand (AF/Acre)
Industrial Building Area	25.1	0	61.18	0	0	61.18	1.76
Access Roads / Hardscape / Parking		0	0	0	0	0	0
Landscape / Open Space / Retention Areas	9.6	0	0	29.9	0	29.9	0.9
Right-of-Way Dedication	0	0	0	0	0	0	0
Total	**34.7**	**0**	**61.18**	**29.9**	**0**	**91.08**	**2.63**

6.6 Projected Water Sources

Domestic water supplies and associated landscape irrigation supplies for the Project will be provided by groundwater from the Mission Creek Subbasin in the Coachella Valley Groundwater Basin, provided by MSWD's potable water distribution system. Projected water sources to serve indoor and outdoor uses are shown in Table 6-4 below.

Table 6-4: Projected Water Sources

Planning Area	Land Area (Acres)	Indoor Industrial Demand	Outdoor Irrigation Demand
Industrial Building Area	25.1	MSWD Domestic Water System	
Access Roads / Hardscapes / Parking	0		MSWD Domestic Water System
Landscape / Open Space / Retention Basins	9.6		
Right-of-Way Dedication	0		
Total	**34.7**		

6.7 Conservation Measures

This section of the WSA documents water conservation measures that would be implemented by the proposed Project.

6.7.1 Project Specific Water Conservation Measures

Design components and mitigation measures have been developed to address the Project's potential impacts on water resources.

To meet and maintain the 2020 Coachella Valley RUWMP goals throughout the life of the Project, developers of the Project will be required to implement the following measures in order to address the need for the efficient use of water resources:

1. Landscaping and irrigation plans, and irrigation systems shall comply with all City ordinances and MSWD's Water Efficient Landscaping Guidelines. Irrigation systems shall be automatic, operated by a timer. To promote deep root irrigation, the system shall use two bubbler heads or drop heads per tree.
2. The Project shall use, to the extent practicable, native plant materials and drought-tolerant plants. The Project shall not make use of turf grass in the landscape design, instead, ground cover plants consisting of shrubs non-turf grasses, and groundcovers.
3. Demand Management Measure: Metering. The District's water system is fully metered. Therefore, the District completes annual checks on the accuracy and operation of production meters by either recalibrating and reinstalling meters, or by replacing meters that do not fall within the required operating range of AWWA standards. Monthly non-revenue water is accounted for. In 2020, the District completed a system-wide upgrade to advanced metering infrastructure (AMI), which allows for the direct transmission of water use data between the point of consumption and the utility. As such, AMI provides a higher level of accuracy, eliminates the need to manually read water meters, improves overall efficiency of operations, and allows for the identification of potential leaks.
4. Demand Management Measure: Conservation Pricing. The District has a tiered rate structure for water service within its service area. The tiered rate structure is intended to discourage high water

use. The District may also enact a drought surcharge, as required by Statewide drought measures. For example, during the 2016 California Drought, the District implemented a temporary $0.05 per hundred cubic feet drought surcharge, consistent with State drought requirements. The District imposes rates for sewer service based on water usage which also promote water conservation.

7 Availability of Sufficient Supplies

7.1 Water Supply Assessment

This WSA projects that the total water demand for the First Industrial Commerce Center II (the Project) will be 91.12 AFY, equating to 2.63 Acre Feet per Acre (AFA). The MSWD long-term water management planning ensures sufficient water supplies to meet existing and future water needs within its service area. In 2020, MSWD's urban water demand was 8,269 AF, and it is projected to increase to 8,996 AFY by 2025 and 17,494 AFY by 2045. The Project's Total Water Demand of 91.12 AFY represents approximately 20.25 percent of the total planned increase in demand by 2025 and about 1.6 percent of the total increase by 2045, based on 2020's water demand.

This WSA assesses the availability of sufficient water supplies during normal, single-dry, and multiple-dry years over a 20-year projection to meet the demands of the Project, as well as existing and future water demands of the MSWD service area, in compliance with Senate Bills 610 and 1262. It also identifies existing water supply entitlements, water rights, water service contracts, and agreements that pertain to the identified water supply for the Project, along with the quantities of water received in prior years under these arrangements.

BKF Engineers, Inc. prepared this WSA in consultation with the City of Palm Springs and MSWD. This assessment does not exempt the Project from complying with all applicable state, county, city, and local ordinances or regulations, including the 2009 MSWD *Water Efficient Landscaping Guidelines*, and the indoor water use performance standards outlined in the California Water Code, both now and in the future.

As required by SB 610, this WSA does not create any right or entitlement to water service or a specific level of water service, nor does it impose, expand, or limit any duty concerning MSWD's obligation to provide certain services to existing customers or future potential customers. This WSA does not constitute an agreement to provide water service to the Project. To receive water service, the Project will require an agreement with MSWD, including any applicable fees, charges, plans, and specifications, along with compliance with all other MSWD requirements.

MSWD retains the authority to declare a water shortage emergency in accordance with the California Water Code. This WSA will be reviewed every five years, or if the water planning assumptions change, until the Project begins construction to ensure its continued accuracy and relevance. The Project applicant must notify MSWD when construction begins.

7.2 Requirement for Written Verification of Water Supply Availability

Under California Government Code §66473.7, a Written Verification of Water Supply (WV) is required for approval of a development agreement or tentative map involving a subdivision. A subdivision generally refers to proposed residential development of more than 500 units. However, for a water agency with fewer than 5,000 service connections, a subdivision also includes a residential development project that would result in a 10 percent or greater increase in the number of the agency's existing service connections.

It is important to note that this WSA does not constitute WV. If the City determines that the Project or any planning area qualifies as a subdivision, a WV must be prepared by the MSWD in accordance with SB 221. This WSA can support the preparation of the WV, but it is not a substitute for the formal WV process.

Depending on the situation, including factors like new water efficiency regulations or changes in water supply availability, MSWD might recommend the preparation of an updated water supply and demand assessment

to ensure the WV is accurate and current. If a WV is required, the City will need to request it from MSWD, and this WSA can be used as a reference point during that process.

8 References

American Water Works Association Research Foundation, *Commercial and Institutional End Uses of Water,* 2000 version.

California Department of Water Resources, *California's Groundwater Update 2020 Highlights Bulletin 118,* Companion Report to *California's Groundwater Update 2020 Bulletin 118 November 2021.*

Coachella Valley Water District, 2025-2026 Engineer's Report on Water Supply and Replenishment Assessment, https://www.cvwd.org/ArchiveCenter/ViewFile/Item/1107, Accessed April 2025

Coachella Valley Water District, Ordinance No. 1302.5, *An Ordinance of the Coachella Valley Water District Establishing Landscape and Irrigation System Design Criteria,* February 12, 2019.

Coachella Valley Water District, *Water Shortage Contingency Plan,* June 2021.

Todd Groundwater and Rincon Consultants, *2025 Coachella Valley Regional Urban Water Management Plan (Draft),* April 13, 2026

Water Systems Consulting, Inc., *2020 Coachella Valley Regional Urban Water Management Plan*, 2021.

Wood Environment & Infrastructure Solutions, Inc. and Kennedy/Jenks Consultants, Inc., *Mission Creek Subbasin Alternative Plan Update*, November 2021.

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AGENDA REPORT

REGULAR BOARD MEETING(S) JUNE 11 & 15, 2026

DIRECTOR REPORTS – MEETINGS AND EVENTS FOR MAY 2026

DIRECTOR REPORTS
(Per GC 53232.3(d), brief reports on meetings attended for which a daily stipend was claimed)

Date	Event	Attendees
5/1	GCVCC STATE OF EDUCATION	SEWELL
5/4 – 5/7	ACWA SPRING CONFERENCE	SEWELL, MARTIN, DUFF, GRIFFITH
5/13	AWWA WEBINAR TRAINING: SEISMIC STRENGTH IN UTILITIES	SEWELL
5/13	GCVCC ALL CHAMBER MIXER	MARTIN
5/14	CVAG ~ COACHELLA VALLEY CONSERVATION COMMITTEE MEETING	DUFF
5/19	DWA BOARD MEETING	GRIFFITH
5/19	DHS CITY COUNCIL MEETING	SEWELL
5/21	DVBA PUBLIC OFFICIALS LUNCHEON	MARTIN
5/21	ACWA STATE LEGISLATIVE COMMITTEE REGION 9 MEETING	DUFF
5/31	CSDA WEBINAR/TRAINING: DEALING WITH CHANGING BOUNDARIES AND CHANGING BOARDS	DUFF

(OTHER) MEETINGS ATTENDED *(no daily stipend was claimed*)

Date	Event	Attendees