



CITY COUNCIL CLOSED & REGULAR SESSION

550 E. 6th Street, Beaumont, CA

Tuesday, May 04, 2021

Closed Session: 5:00 PM | Regular Meeting: 6:00 PM

Materials related to an item on this agenda submitted to the City Council after distribution of the agenda packets are available for public inspection in the City Clerk's office at 550 E. 6th Street during normal business hours.

AGENDA

MEETING PARTICIPATION NOTICE

This meeting will be conducted utilizing teleconference communications and will be recorded for live streaming as well as open to public attendance subject to social distancing and applicable health orders. All City of Beaumont public meetings will be available via live streaming and made available on the City's official YouTube webpage. Please use the following link during the meeting for live stream access.

beaumontca.gov/livestream

Public comments will be accepted using the following options.

1. Written comments will be accepted via email and will be read aloud during the corresponding item of the meeting. Public comments shall not exceed three (3) minutes unless otherwise authorized by City Council. Comments can be submitted anytime prior to the meeting as well as during the meeting up until the end of the corresponding item. Please submit your comments to: **nicolew@beaumontca.gov**
2. Phone-in comments will be accepted by joining a conference line prior to the corresponding item of the meeting. Public comments shall not exceed three (3) minutes unless otherwise authorized by City Council. Please use the following phone number to join the call **(951) 922 - 4845.**
3. In person comments subject to the adherence of the applicable health orders and social distancing requirements.

In compliance with the American Disabilities Act, if you require special assistance to participate in this meeting, please contact the City Clerk's office using the above email or call **(951) 572 - 3196.** Notification 48 hours prior to a meeting will ensure the best reasonable accommodation arrangements.

CLOSED SESSION - 5:00 PM

A Closed Session of the City Council / Beaumont Financing Authority / Beaumont Utility Authority / Beaumont Successor Agency (formerly RDA)/Beaumont Parking Authority / Beaumont Public Improvement Authority may be held in accordance with state law which may include, but is not limited to, the following types of items: personnel matters, labor negotiations, security matters, providing instructions to real property negotiators and conference with legal counsel regarding pending litigation. Any public comment on Closed Session items will be taken prior to the Closed Session. Any required announcements or discussion of Closed Session items or actions following the Closed Session will be made in the City Council Chambers.

CALL TO ORDER

Mayor Lara, Mayor Pro Tem White, Council Member Martinez, Council Member Fenn, Council Member Santos

Public Comments Regarding Closed Session

- 1. Conference with Labor Negotiators - Pursuant to Government Code Section 54957.6 City Designated Representatives City Manager Todd Parton and Administrative Services Director Kari Mendoza. Employee Organizations: Beaumont Police Officers Association and SEIU**
- 2. Conference with Legal Counsel Regarding Potential Initiation of Litigation Pursuant to Government Code 54956.9(d)(4) - One Potential Case**
- 3. Conference with Real property Negotiator Pursuant to Government Code Section 54956.8 for Property Known as Portions of APNs 418-190-004, 418-190-005, and 418-190-006. Agency Negotiator: City Manager Todd Parton or his Designee. Negotiating Parties: City of Beaumont and Orum Capital. Under Negotiation: Price and Terms**
- 4. Conference with Legal Counsel Regarding Potential Initiation of Litigation Pursuant to Government Code 54956.9(d)(4) - One Potential Case**

Adjourn to Regular Session

REGULAR SESSION - 6:00 PM

CALL TO ORDER

Mayor Lara, Mayor Pro Tem White, Council Member Martinez, Council Member Fenn, Council Member Santos

Report out from Closed Session
Action on any Closed Session Items
Action of any Requests for Excused Absence
Pledge of Allegiance
Approval / Adjustments to the Agenda
Conflict of Interest Disclosure

ANNOUNCEMENTS/ RECOGNITION / PROCLAMATIONS / CORRESPONDENCE

PUBLIC COMMENT PERIOD (ITEMS NOT ON THE AGENDA)

Any one person may address the City Council on any matter not on this agenda. If you wish to speak, please fill out a "Public Comment Form" provided at the back table and give it to the City Clerk. There is a three (3) minute time limit on public comments. There will be no sharing or passing of time to another person. State Law prohibits the City Council from discussing or taking actions brought up by your comments.

CONSENT CALENDAR

Items on the consent calendar are taken as one action item unless an item is pulled for further discussion here or at the end of action items. Approval of all Ordinances and Resolutions to be read by title only.

1. Ratification of Warrants

Recommended Action:

Ratify warrants dated March 11, 2021.

2. Approval of Minutes

Recommended Action:

Approve Minutes dated April 20, 2021.

3. Approval of Double Map, Inc., Invoice and Subscription Renewal

Recommended Action:

Approve invoice CINV-004991 in the amount of \$27,716.67 for a one-year renewal of Double Map, Inc., subscription services; and

Issue a Purchase Order in the amount of \$27,716.67 to Double Map, Inc.

4. Single Audit Report for FY2020

Recommended Action:

Receive and file the FY2020 Single Audit Report.

5. 2020 Annual Maximum Benefit Monitoring Program Report

Recommended Action:

Receive and file the 2020 Annual Maximum Benefit Monitoring Program Report as submitted to the Santa Ana Regional Water Quality Control Board.

PUBLIC HEARINGS

Approval of all Ordinances and Resolutions to be read by title only.

ACTION ITEMS

Approval of all Ordinances and Resolutions to be read by title only.

6. Retail Market Analysis Update

Recommended Action:

Receive and file the report.

7. Review Draft Capital Improvement Plan (CIP) for Fiscal Years 2022-2026 and Prior Year Project List

Recommended Action:

Review the Draft Capital Improvement Plan for FY2022-2026 and the Prior Year Project List and provide direction to City staff.

8. Fiscal Year 2022 City Wide Budget

Recommended Action:

Review the proposed FY2022 Budget and provide direction to City staff.

9. Discussion and Direction on Proposed Development Standards Related to Public Storage Facilities, Moving and Storage Establishments, Automobile Parking Facilities (Including Recreational Vehicles), Truck Stops and Terminals and Building and Storage Yards

Recommended Action:

Provide direction to City staff on additional development standards for uses identified in Ordinance 1111.

10. Ratification of Emergency Repair Costs to Lower Oak Valley Lift Station

Recommended Action:

Ratify the cost of emergency repairs completed and paid to Xylem Water Solutions USA, Inc., in an amount not to exceed \$40,000.

11. Approval of the Fiscal Year 2021 Local Responsibility Area Wildland Protection Reimbursement Agreement

Recommended Action:

Waive the full reading and approve by title only, "A Resolution of the City Council of the City of Beaumont, California, approving an Agreement with the California Department of Forestry and Fire Protection for Services from July 1, 2021 through June 30, 2022, for Fire Protection Services within the Local Responsibility Areas within the City," and

Authorized the Mayor to sign the FY2022 agreement with CalFIRE for fire protection services within the Local Responsibility Areas within the City.

12. Police Department Vehicle Purchase Adjustment

Recommended Action:

Authorize the additional cost of \$7,884.07 for the adjusted total of \$40,307.25 for the purchase of a Ford F350 from Ken Grody Ford.

13. Approve the Purchase of Two (2) F150 Super Crew Trucks and Three (3) F250 Trucks in the Amount of \$140,100 from Fairview Ford

Recommended Action:

Approve the purchase of two F150 super crew trucks and three F250 regular crew trucks in the amount of \$140,097.20 from Fairview Ford.

14. Award of Public Works Agreement for Stewart Park Pool and Pavilion Demolition Project to Weaver Grading Inc. in an Amount Not-to-Exceed \$60,200

Recommended Action:

Award a Public Works Agreement for Stewart Park Pool and Pavilion Demolition Project to Weaver Grading Inc. in an Amount Not-to-Exceed \$60,200, Authorize the City Manager to approve any change orders up to \$6,020, and Authorize the City Manager to execute the Agreement on behalf of the City.

15.Approval of Compensation Plan and Salary Table

Recommended Action:

Approval of the Compensation Plan and Salary Table.

LEGISLATIVE UPDATES AND DISCUSSION

ECONOMIC DEVELOPMENT UPDATE

Economic Development Committee Report Out and City Council Direction

CITY TREASURER REPORT

Finance and Audit Committee Report Out and City Council Direction

CITY CLERK REPORT

CITY ATTORNEY REPORT

CITY MANAGER REPORT

16.Department Project Schedule Updates - April 2021

FUTURE AGENDA ITEMS

COUNCIL REPORTS

- Santos
- Fenn
- Martinez
- White
- Lara

ADJOURNMENT

The next regular meeting of the Beaumont City Council, Beaumont Financing Authority, the Beaumont Successor Agency (formerly RDA), the Beaumont Utility Authority, the Beaumont Parking Authority and the Beaumont Public Improvement Agency is scheduled for Tuesday, May 18, 2021, at 5:00 p.m., unless otherwise posted.

Beaumont City Hall – Online www.BeaumontCa.gov



WARRANTS TO BE RATIFIED

Thursday, March 11, 2021

Printed Checks	108613-108614	\$	91.36	Utility Account Refunds
	108534-108612	\$	320,259.16	FY 20/21
ACH	401-402	\$	65,551.60	
	A/P Total	\$	<u>385,810.76</u>	
Bank Draft	MG Trust	\$	22,010.82	457 Paydate 03/12/21
		\$	4,740.78	401-A Paydate 03/12/21
		\$	550.63	FICA Paydate 03/12/21
	CalPERS	\$	47,406.22	742 Classic
		\$	44,250.95	743 Classic
		\$	18,821.14	27308 PEPRA
		\$	12,301.61	25763 PEPRA
		\$	10.04	27308 PEPRA
	Deluxe Business	\$	324.70	Bank Deposit Bags
	Kaiser	\$	178.00	HSA Paydate 03/12/21
Payroll	Paychex	\$	576,494.24	Paydate 03/12/21

I DO HEREBY CERTIFY THIS WARRANT LIST HAS BEEN COMPILED AND PREPARED TO MEET THE DAILY OPERATIONS FOR THE FISCAL YEAR JULY 1, 2020 - JUNE 30, 2021

SIGNATURE: Benjamin Smith
TITLE: CITY TREASURER

SIGNATURE: [Signature]
TITLE: FINANCE DIRECTOR



WARRANTS TO BE RATIFIED

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SIGNATURE: _____
TITLE: CITY TREASURER

SIGNATURE: _____
TITLE: FINANCE DIRECTOR



City of Beaumont, CA

Item 1.
Check Report

By Check Number

Date Range: 03/12/2021 - 03/18/2021

Vendor Number	Vendor Name	Payment Date	Payment Type	Discount Amount	Payment Amount	Number
1036	ALBERT A. WEBB ASSOCIATES	03/18/2021	EFT	0.00	26,169.00	401
Bank Code: APBNK-AP Bank						
Payable #	Payable Type	Post Date	Payable Description	Discount Amount	Payable Amount	
210745	Invoice	03/17/2021	Engineering Services During Construction	0.00	23,791.50	
	710-0000-7068-0000		CONTRACTUAL SERVICE ENGINEERING SERVICES		23,791.50	
210746	Invoice	03/17/2021	Engineering Services During Const. - BRIN	0.00	1,152.50	
	710-0000-7068-0000		CONTRACTUAL SERVICE ENGINEERING SERVICES DURIN		1,152.50	
210747	Invoice	03/17/2021	Engineering Services During Construction	0.00	661.50	
	710-0000-7068-0000		CONTRACTUAL SERVICE ENGINEERING SERVICES		661.50	
210747-2	Invoice	03/17/2021	Engineering Services During Const. - BRIN	0.00	563.50	
	710-0000-7068-0000		CONTRACTUAL SERVICE ENGINEERING SERVICES DURIN		563.50	
3400	T.E. ROBERTS, INC	03/18/2021	EFT	0.00	39,382.60	402
Payable #	Payable Type	Post Date	Payable Description	Discount Amount	Payable Amount	
3875	Invoice	03/17/2021	SEWER REPAIR - EMERGENCY SERVICES	0.00	39,382.60	
	710-0000-8030-0000		CAPITAL IMPROVEMENT SEWER REPAIR - EMERGENCY SE		39,382.60	
4260	10-8 RETROFIT INC	03/18/2021	Regular	0.00	5,412.59	108534
Payable #	Payable Type	Post Date	Payable Description	Discount Amount	Payable Amount	
17617	Invoice	03/17/2021	VEHICLE MAINTENANCE	0.00	300.00	
	100-2050-7037-0000		VEHICLE MAINTENANCE VEHICLE MAINTENANCE		300.00	
17618	Invoice	03/17/2021	Outfitting of New Admin Vehicle	0.00	5,112.59	
	100-2050-8060-0000		VEHICLES MPower 4" Fascia Light with Stu		200.90	
	100-2050-8060-0000		VEHICLES 150 Amp Circuit Breaker resetabl		29.72	
	100-2050-8060-0000		VEHICLES Rear Side Window fascia light w		200.90	
	100-2050-8060-0000		VEHICLES 6 POS Connectable Fuse Blcok w		25.00	
	100-2050-8060-0000		VEHICLES Undercover Screw in LED Light K		139.66	
	100-2050-8060-0000		VEHICLES 2 Federal Signal Generic L Brack		20.00	
	100-2050-8060-0000		VEHICLES Mini siren undercover remote w		233.14	
	100-2050-8060-0000		VEHICLES Electronic Board for equipment		75.00	
	100-2050-8060-0000		VEHICLES Speaker/Siren bail bracket		152.25	
	100-2050-8060-0000		VEHICLES Rear Hatch Tail Light Flasher		62.13	
	100-2050-8060-0000		VEHICLES MPower 4" Windshield Shroud		27.00	
	100-2050-8060-0000		VEHICLES Visor Lights for 2020 Ford Explor		766.19	
	100-2050-8060-0000		VEHICLES Unitrol 80k Amp Rotary Switch		222.34	
	100-2050-8060-0000		VEHICLES SC-1902 Switch/Momentary/Air		17.11	
	100-2050-8060-0000		VEHICLES Generic L Bracket		20.00	
	100-2050-8060-0000		VEHICLES 140 A Time Delay Relay		120.00	
	100-2050-8060-0000		VEHICLES 6mm Red Indicator Lgith Zoro 1		8.00	
	100-2050-8060-0000		VEHICLES Labor		1,875.00	
	100-2050-8060-0000		VEHICLES CCAS-SB-7-800 SITCO Undercov		120.00	
	100-2050-8060-0000		VEHICLES Front Light Housing		200.90	
	100-2050-8060-0000		VEHICLES Relays 30 Amp, circuit breaker, f		382.87	
	100-2050-8060-0000		VEHICLES Rear Window		200.90	
	100-2050-8060-0000		VEHICLES 12 Position Ground Terminal Co		13.58	
1004	A-1 AUTO ELECTRIC	03/18/2021	Regular	0.00	652.48	108535

Check Report

Date Range: 03/12/2021 Item 1. 21

Vendor Number	Vendor Name	Payment Date	Payment Type	Discount Amount	Payment Amount	Number
Payable #	Payable Type	Post Date	Payable Description	Discount Amount	Payable Amount	
	Account Number	Account Name	Item Description	Distribution Amount		
127541	Invoice	03/17/2021	VEHICLE MAINTENANCE	0.00	652.48	
	<u>750-7900-7037-0000</u>		VEHICLE MAINTENANCE		652.48	
1050	AMAZON CAPITAL SERVICES	03/18/2021	Regular	0.00	180.29	108536
Payable #	Payable Type	Post Date	Payable Description	Discount Amount	Payable Amount	
	Account Number	Account Name	Item Description	Distribution Amount		
<u>199C-MKMOV-RKD</u>	Invoice	03/17/2021	OFFICE SUPPLIES	0.00	56.51	
	<u>100-1150-7025-0000</u>		OFFICE SUPPLIES		56.51	
<u>1RRV-YLXQ-LK17</u>	Invoice	03/17/2021	OFFICE SUPPLIES	0.00	123.78	
	<u>100-3250-7025-0000</u>		OFFICE SUPPLIES		123.78	
1053	AMERICAN FORENSIC NURSES	03/18/2021	Regular	0.00	181.71	108537
Payable #	Payable Type	Post Date	Payable Description	Discount Amount	Payable Amount	
	Account Number	Account Name	Item Description	Distribution Amount		
<u>74294</u>	Invoice	03/17/2021	American Forensic Nurses BloodDraw Ser	0.00	60.57	
	<u>100-2050-7068-0000</u>		CONTRACTUAL SERVICES		60.57	
<u>74346</u>	Invoice	03/17/2021	American Forensic Nurses BloodDraw Ser	0.00	121.14	
	<u>100-2050-7068-0000</u>		CONTRACTUAL SERVICES		121.14	
3831	ANIMAL PEST MANAGEMENT SERVICES, INC	03/18/2021	Regular	0.00	960.00	108538
Payable #	Payable Type	Post Date	Payable Description	Discount Amount	Payable Amount	
	Account Number	Account Name	Item Description	Distribution Amount		
<u>622875</u>	Invoice	03/17/2021	Pest control for city buildings	0.00	685.00	
	<u>100-6000-7068-6025</u>		CONTRACTUAL SVC - CITY		130.00	
	<u>100-6000-7068-6026</u>		CONTRACTUAL SVC - CITY		65.00	
	<u>100-6000-7068-6032</u>		CONTRACTUAL SVC- CITY		45.00	
	<u>100-6000-7068-6040</u>		CONTRACTUAL SVC- POLI		75.00	
	<u>100-6000-7068-6041</u>		CONTRACTUAL SVC- POLI		45.00	
	<u>100-6000-7068-6045</u>		CONTRACTUAL SVC- COM		130.00	
	<u>100-6000-7068-6055</u>		CONTRACTUAL SVC- FIRE		65.00	
	<u>750-7000-7068-0000</u>		CONTRACTUAL SERVICES		65.00	
	<u>750-7300-7068-0000</u>		CONTRACTUAL SERVICES		65.00	
<u>642969</u>	Invoice	03/17/2021	PROFESSIONAL SERVICES	0.00	275.00	
	<u>100-6000-7068-6025</u>		CONTRACTUAL SVC - CITY		137.50	
	<u>100-6000-7068-6040</u>		CONTRACTUAL SVC- POLI		137.50	
4232	AP ENTERPRISES, INC	03/18/2021	Regular	0.00	3,000.00	108539
Payable #	Payable Type	Post Date	Payable Description	Discount Amount	Payable Amount	
	Account Number	Account Name	Item Description	Distribution Amount		
<u>GRANI 03/17/21</u>	Invoice	03/17/2021	BUSINESS ASSISTANCE GRANT	0.00	3,000.00	
	<u>100-0000-7096-0000</u>		COMMUNITY PROGRAM		3,000.00	
1005	A-Z BUS SALES, INC.	03/18/2021	Regular	0.00	66.58	108540
Payable #	Payable Type	Post Date	Payable Description	Discount Amount	Payable Amount	
	Account Number	Account Name	Item Description	Distribution Amount		
<u>01P702822</u>	Invoice	03/17/2021	VEHICLE MAINTENANCE	0.00	66.58	
	<u>750-7300-7037-0000</u>		VEHICLE MAINTENANCE		66.58	
3129	BC RENTALS, INC	03/18/2021	Regular	0.00	172.15	108541
Payable #	Payable Type	Post Date	Payable Description	Discount Amount	Payable Amount	
	Account Number	Account Name	Item Description	Distribution Amount		
<u>0057699-IN</u>	Invoice	03/17/2021	BUILDING MAINTENANCE	0.00	172.15	
	<u>100-6000-7085-6025</u>		BLDG MAINT - CITY HALL		172.15	
1123	BEAUMONT BASIN WATERMASTER	03/18/2021	Regular	0.00	21,578.60	108542

Check Report

Date Range: 03/12/2021

Item 1.

Vendor Number	Vendor Name	Payment Date	Payment Type	Discount Amount	Payment Amount	Number
Payable #	Payable Type	Post Date	Payable Description	Discount Amount	Payable Amount	
	Account Number	Account Name	Item Description	Distribution Amount		
B-214	Invoice 700-4050-7022-0000	03/17/2021	TASK ORDER 23 & 24 LICENSE, PERMITS, FEES TASK ORDER 23 & 24	0.00	21,578.60	
1147	BEAUMONT CHERRY VALLEY WATER DIST.	03/18/2021	Regular	0.00	3,201.90	108543
Payable #	Payable Type	Post Date	Payable Description	Discount Amount	Payable Amount	
	Account Number	Account Name	Item Description	Distribution Amount		
03/17/21	Invoice 100-6000-7010-6025 100-6000-7010-6031 100-6000-7010-6032 100-6000-7010-6040 100-6000-7010-6041 100-6050-7010-5250	03/17/2021	WATER UTILITY UTILITIES - CITY HALL WATER UTILITY UTILITIES - CITY HALL BLD WATER UTILITY UTILITIES - CITY HALL BLD WATER UTILITY UTILITIES - POLICE DEPT WATER UTILITY UTILITIES - POLICE ANNEX WATER UTILITY UTILITIES, PARK (RANGEL) WATER UTILITY	0.00	3,201.90	
1127	BEAUMONT DO IT BEST HOME CENTER	03/18/2021	Regular	0.00	20.60	108544
Payable #	Payable Type	Post Date	Payable Description	Discount Amount	Payable Amount	
	Account Number	Account Name	Item Description	Distribution Amount		
497803	Invoice 100-3250-7070-0000	03/17/2021	DEPARTMENT SUPPLIES - STREETS SPECIAL DEPT SUPPLIES DEPARTMENT SUPPLIES - STREE	0.00	20.60	
1136	BEAUMONT POWER EQUIPMENT	03/18/2021	Regular	0.00	3,000.00	108545
Payable #	Payable Type	Post Date	Payable Description	Discount Amount	Payable Amount	
	Account Number	Account Name	Item Description	Distribution Amount		
GRANT 03/17/21	Invoice 100-0000-7096-0000	03/17/2021	BUSINESS ASSISTANCE GRANT COMMUNITY PROGRAM BUSINESS ASSISTANCE GRANT	0.00	3,000.00	
1140	BEAUMONT SAFE & LOCK	03/18/2021	Regular	0.00	64.00	108546
Payable #	Payable Type	Post Date	Payable Description	Discount Amount	Payable Amount	
	Account Number	Account Name	Item Description	Distribution Amount		
74244	Invoice 100-6000-7085-5050	03/17/2021	BUILDING MAINTENANCE BLDG MAINT - DEFORGE BUILDING MAINTENANCE	0.00	64.00	
3602	BURRTEC WASTE GROUP, INC	03/18/2021	Regular	0.00	40,587.32	108547
Payable #	Payable Type	Post Date	Payable Description	Discount Amount	Payable Amount	
	Account Number	Account Name	Item Description	Distribution Amount		
03022021-2	Invoice 700-4050-7068-0000 700-4050-7068-0000	03/17/2021	SLUDGE HAULING SERVICES CONTRACTUAL SERVICES SLUDGE HAULING SERVICES CONTRACTUAL SERVICES SLUDGE HAULING SERVICES	0.00	40,587.32	
1208	CALIFORNIA PEACE OFFICERS ASSOCIATION	03/18/2021	Regular	0.00	300.00	108548
Payable #	Payable Type	Post Date	Payable Description	Discount Amount	Payable Amount	
	Account Number	Account Name	Item Description	Distribution Amount		
295750	Invoice 100-2050-7030-0000	03/17/2021	ANNUAL PREMIUM RENEWAL DUES & SUBSCRIPTIONS ANNUAL PREMIUM RENEWAL	0.00	300.00	
4234	CLASSY CONSIGNMENTS	03/18/2021	Regular	0.00	3,000.00	108549
Payable #	Payable Type	Post Date	Payable Description	Discount Amount	Payable Amount	
	Account Number	Account Name	Item Description	Distribution Amount		
GRANT 03/17/21	Invoice 100-0000-7096-0000	03/17/2021	BUSINESS ASSISTANCE GRANT COMMUNITY PROGRAM BUSINESS ASSISTANCE GRANT	0.00	3,000.00	
4240	CLAUDIA CASTRO	03/18/2021	Regular	0.00	3,000.00	108550
Payable #	Payable Type	Post Date	Payable Description	Discount Amount	Payable Amount	
	Account Number	Account Name	Item Description	Distribution Amount		
GRANT 03/17/21	Invoice 100-0000-7096-0000	03/17/2021	BUSINESS ASSISTANCE GRANT COMMUNITY PROGRAM BUSINESS ASSISTANCE GRANT	0.00	3,000.00	
3169	COAST RECREATION INC.	03/18/2021	Regular	0.00	624.22	108551

Check Report

Date Range: 03/12/2021

Item 1.

21

Vendor Number	Vendor Name	Payment Date	Payment Type	Discount Amount	Payment Amount	Number
Payable #	Payable Type	Post Date	Payable Description	Discount Amount	Payable Amount	
	Account Number	Account Name	Item Description	Distribution Amount		
13805	Invoice 100-6050-7070-5000	03/17/2021	DEPT SUPPLIES SPEC DEPT EXP - THREE RI	0.00	624.22	
1344	CREATIVE BUS SALES, INC	03/18/2021	Regular	0.00	463.01	108552
13048016	Invoice 750-7400-7037-0000	03/17/2021	VEHICLE MAINTENANCE VEHICLE MAINTENANCE	0.00	64.82	
5213282	Invoice 750-7400-7037-0000	03/17/2021	VEHICLE MAINTENANCE VEHICLE MAINTENANCE	0.00	165.91	
5213791	Invoice 750-7400-7037-0000	03/17/2021	VEHICLE MAINTENANCE VEHICLE MAINTENANCE	0.00	232.28	
1347	CSAC EXCESS	03/18/2021	Regular	0.00	7,324.00	108553
21100459	Invoice 100-1240-7080-0000	03/17/2021	EXCESS WORKERS' COMP PROGRAM INSURANCE	0.00	7,324.00	
1353	CUSTOM TROPHIES	03/18/2021	Regular	0.00	3,000.00	108554
GRANT 03/17/21	Invoice 100-0000-7096-0000	03/17/2021	BUSINESS ASSISTANCE GRANT COMMUNITY PROGRAM	0.00	3,000.00	
4231	DAE WON LEE DDS, INC	03/18/2021	Regular	0.00	3,000.00	108555
GRANT 03/17/21	Invoice 100-0000-7096-0000	03/17/2021	BUSINESS ASSISTANCE GRANT COMMUNITY PROGRAM	0.00	3,000.00	
3905	DANIEL GARCIA MONTOYA	03/18/2021	Regular	0.00	76.15	108556
0200895	Invoice 100-6050-7090-0000	03/17/2021	EQUIPMENT MAINTENANCE EQUIPMENT SUPPLIES/M	0.00	76.15	
4229	DEBRA G. RAPSTINE	03/18/2021	Regular	0.00	3,000.00	108557
GRANT 03/17/21	Invoice 100-0000-7096-0000	03/17/2021	BUSINESS ASSISTANCE GRANT COMMUNITY PROGRAM	0.00	3,000.00	
1402	DEPARTMENT OF JUSTICE	03/18/2021	Regular	0.00	228.00	108558
496453	Invoice 100-2050-7031-0000	03/17/2021	FINGERPRINTING SERVICES LIVE SCAN-FINGERPRINTI	0.00	228.00	
1414	DIAMOND HILLS AUTO GROUP	03/18/2021	Regular	0.00	203.90	108559
25017253	Invoice 750-7900-7037-0000	03/17/2021	VEHICLE MAINTENANCE VEHICLE MAINTENANCE	0.00	112.25	
25017320	Invoice 750-7900-7037-0000	03/17/2021	VEHICLE MAINTENANCE VEHICLE MAINTENANCE	0.00	91.65	
4343	Donald Rapstine	03/18/2021	Regular	0.00	3,000.00	108560

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	Account Number	Account Name	Item Description	Distribution Amount		
4239	DONNA J. CALDERON	03/18/2021	Regular	0.00	3,000.00	108561
<u>GRANT 03/17/21</u>	Invoice	03/17/2021	BUSINESS ASSISTANCE GRANT	0.00	3,000.00	
	<u>100-0000-7096-0000</u>		COMMUNITY PROGRAM		3,000.00	
4237	EAST WALL CHINESE RESTAURANT	03/18/2021	Regular	0.00	3,000.00	108562
<u>GRANT 03/17/21</u>	Invoice	03/17/2021	BUSINESS ASSISTANCE GRANT	0.00	3,000.00	
	<u>100-0000-7096-0000</u>		COMMUNITY PROGRAM		3,000.00	
1499	EVIDENT	03/18/2021	Regular	0.00	55.42	108563
<u>177506A</u>	Invoice	03/17/2021	DEPT SUPPLIES	0.00	55.42	
	<u>100-2050-7070-0000</u>		SPECIAL DEPT SUPPLIES		55.42	
1501	FAIRVIEW FORD	03/18/2021	Regular	0.00	30,313.02	108564
<u>2020 FUSION SEL</u>	Invoice	03/17/2021	Purchase of vehicle for Environmental Co	0.00	28,839.10	
	<u>205-0000-8060-0000</u>		VEHICLES		28,839.10	
<u>775687</u>	Invoice	03/17/2021	VEHICLE MAINTENANCE	0.00	47.28	
	<u>100-2050-7037-0000</u>		VEHICLE MAINTENANCE		47.28	
<u>776614</u>	Invoice	03/17/2021	VEHICLE MAINTENANCE	0.00	161.87	
	<u>100-2050-7037-0000</u>		VEHICLE MAINTENANCE		161.87	
<u>777191</u>	Invoice	03/17/2021	VEHICLE MAINTENANCE	0.00	45.49	
	<u>750-7600-7037-0000</u>		VEHICLE MAINTENANCE		45.49	
<u>C82683</u>	Invoice	03/17/2021	VEHICLE MAINTENANCE	0.00	1,219.28	
	<u>100-2050-7037-0000</u>		VEHICLE MAINTENANCE		1,219.28	
4211	FLO - SYSTEMS INC	03/18/2021	Regular	0.00	22,160.94	108565
<u>F18207-20D274</u>	Invoice	03/17/2021	Replacement of SN 1361496 at Little Low	0.00	22,160.94	
	<u>700-4050-8040-0000</u>		EQUIPMENT		22,160.94	
1533	FRONTIER COMMUNICATIONS	03/18/2021	Regular	0.00	1,213.94	108566
<u>951-197-0624-08</u>	Invoice	03/17/2021	PHONE UTILITY	0.00	250.93	
	<u>100-1230-7015-6040</u>		TELEPHONE (POLICE DPT)		250.93	
<u>951-769-5188-04</u>	Invoice	03/17/2021	PHONE UTILITY	0.00	382.48	
	<u>100-1230-7015-6045</u>		TELEPHONE (COMM CTR)		382.48	
<u>951-769-6032-08</u>	Invoice	03/17/2021	PHONE UTILITY	0.00	70.16	
	<u>100-1230-7015-5400</u>		TELEPHONE - SPORTS PAR		70.16	
<u>951-769-8533-09</u>	Invoice	03/17/2021	PHONE UTILITY	0.00	54.31	
	<u>750-7300-7015-0000</u>		TELEPHONE		54.31	
<u>951-769-8534-04</u>	Invoice	03/17/2021	PHONE UTILITY	0.00	456.06	
	<u>700-4050-7015-0000</u>		TELEPHONE		456.06	
3906	GUY THOMAS	03/18/2021	Regular	0.00	1,000.00	108567

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	Account Number	Account Name	Item Description	Distribution Amount		
922848	Invoice 100-3250-7075-0000	03/17/2021	EQUIPMENT RENTAL EQUIPMENT LEASING/RE	0.00	1,000.00 1,000.00	
3006	H2O INNOVATION USA, INC	03/18/2021	Regular	0.00	2,322.80	108568
CD118858	Invoice 700-4050-7070-0000	03/17/2021	WW Special dept Supplies SPECIAL DEPT SUPPLIES	0.00	2,322.80 2,322.80	
3718	HAAKER EQUIPMENT COMPANY	03/18/2021	Regular	0.00	1,454.63	108569
C68904	Invoice 700-4050-7070-0000	03/17/2021	DEPT SUPPLIES SPECIAL DEPT SUPPLIES	0.00	1,454.63 1,454.63	
3515	HD SUPPLY FACILITIES MAINTENANCE LTD	03/18/2021	Regular	0.00	288.02	108570
508176	Invoice 700-4050-7070-0000	03/17/2021	DEPARTMENT SUPPLIES - SEWER SPECIAL DEPT SUPPLIES	0.00	93.57 93.57	
508424	Invoice 700-4050-7070-0000	03/17/2021	DEPARTMENT SUPPLIES - SEWER SPECIAL DEPT SUPPLIES	0.00	194.45 194.45	
1643	HUNTINGTON COURT REPORTERS & TRANSCRI	03/18/2021	Regular	0.00	370.88	108571
33601	Invoice 100-2050-7068-0000	03/17/2021	Huntington Transcription Servcies for FY 2 CONTRACTUAL SERVICES	0.00	370.88 370.88	
3135	INTERNATIONAL INSTITUTE OF MUNICIPAL CLE	03/18/2021	Regular	0.00	240.00	108572
#31467 02/17/21	Invoice 100-1150-7030-0000	03/17/2021	ANNUAL MEMBERSHIP FEE - WHEELWRIG DUES & SUBSCRIPTIONS	0.00	240.00 240.00	
4344	Joanna Helen MCully	03/18/2021	Regular	0.00	3,000.00	108573
GRANT 03/17/21	Invoice 100-0000-7096-0000	03/17/2021	BUSINESS ASSISTANCE GRANT COMMUNITY PROGRAM	0.00	3,000.00 3,000.00	
1799	KIMBALL MIDWEST	03/18/2021	Regular	0.00	106.68	108574
8679277	Invoice 750-7300-7037-0000	03/17/2021	VEHICLE MAINTENANCE VEHICLE MAINTENANCE	0.00	106.68 106.68	
1856	LEXISNEXIS RISK SOLUTIONS	03/18/2021	Regular	0.00	2,296.70	108575
1535776-202102	Invoice 100-2050-7030-0000	03/17/2021	MONTHLY SUBSCRIPTION DUES & SUBSCRIPTIONS	0.00	171.70 171.70	
1559152-202102	Invoice 100-1230-7071-0000	03/17/2021	SOFTWARE SOFTWARE	0.00	2,125.00 2,125.00	
4349	MICHALE K. CASHE	03/18/2021	Regular	0.00	3,000.00	108576

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	Account Number	Account Name	Item Description	Distribution Amount		
GRANI 03/17/21	Invoice 100-0000-7096-0000	03/17/2021	BUSINESS ASSISTANCE GRANT COMMUNITY PROGRAM	0.00	3,000.00 3,000.00	
4351	NANCY LE	03/18/2021	Regular	0.00	3,000.00	108577
GRANI 03/17/21	Invoice 100-0000-7096-0000	03/17/2021	BUSINESS ASSISTANCE GRANT COMMUNITY PROGRAM	0.00	3,000.00 3,000.00	
1984	NAPA AUTO PARTS	03/18/2021	Regular	0.00	428.81	108578
144985	Invoice 100-2050-7037-0000	03/17/2021	VEHICLE MAINTENANCE VEHICLE MAINTENANCE	0.00	0.69 0.69	
144998	Invoice 100-2050-7037-0000	03/17/2021	VEHICLE MAINTENANCE VEHICLE MAINTENANCE	0.00	76.48 76.48	
146958	Invoice 750-7900-7037-0000	03/17/2021	VEHICLE MAINTENANCE VEHICLE MAINTENANCE	0.00	139.53 139.53	
147172	Invoice 750-7900-7037-0000	03/17/2021	VEHICLE MAINTENANCE VEHICLE MAINTENANCE	0.00	6.90 6.90	
147279	Invoice 750-7900-7037-0000	03/17/2021	VEHICLE MAINTENANCE VEHICLE MAINTENANCE	0.00	17.22 17.22	
147328	Invoice 750-7900-7037-0000	03/17/2021	VEHICLE MAINTENANCE VEHICLE MAINTENANCE	0.00	3.76 3.76	
147586	Invoice 750-8300-7037-0000	03/17/2021	VEHICLE MAINTENANCE VEHICLE MAINTENANCE	0.00	184.23 184.23	
4346	NESTLE NAIL AND SPA	03/18/2021	Regular	0.00	3,000.00	108579
GRANI 03/17/21	Invoice 100-0000-7096-0000	03/17/2021	BUSINESS ASSISTANCE GRANT COMMUNITY PROGRAM	0.00	3,000.00 3,000.00	
2009	O'REILLY AUTO PARTS	03/18/2021	Regular	0.00	770.15	108580
2678-331456	Invoice 100-3250-7037-0000	03/17/2021	VEHICLE MAINTENANCE VEHICLE MAINTENANCE	0.00	6.90 6.90	
2678-332383	Invoice 750-7900-7037-0000	03/17/2021	VEHICLE MAINTENANCE VEHICLE MAINTENANCE	0.00	160.50 160.50	
2678-332934	Invoice 100-2050-7037-0000	03/17/2021	VEHICLE MAINTENANCE VEHICLE MAINTENANCE	0.00	129.41 129.41	
2678-333105	Invoice 750-7900-7037-0000	03/17/2021	VEHICLE MAINTENANCE VEHICLE MAINTENANCE	0.00	18.49 18.49	
2678-333556	Invoice 750-7600-7037-0000	03/17/2021	VEHICLE MAINTENANCE VEHICLE MAINTENANCE	0.00	172.83 172.83	
2678-333763	Invoice 100-6050-7037-0000	03/17/2021	VEHICLE MAINTENANCE VEHICLE MAINTENANCE	0.00	14.00 14.00	
2678-333810	Invoice 100-6050-7037-0000	03/17/2021	VEHICLE MAINTENANCE VEHICLE MAINTENANCE	0.00	3.08 3.08	
2678-333887	Invoice 100-6050-7037-0000	03/17/2021	VEHICLE MAINTENANCE VEHICLE MAINTENANCE	0.00	163.07 163.07	
2678-334360	Invoice	03/17/2021	VEHICLE MAINTENANCE	0.00	101.87	

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	750-7600-7037 0000	VEHICLE MAINTENANCE	VEHICLE MAINTENANCE		101.87	
2022	ORRICK, HERRINGTON & SUTCLIFFE LLP	03/18/2021	Regular	0.00	1,598.40	108581
Payable #	Payable Type	Post Date	Payable Description	Discount Amount	Payable Amount	
	Account Number		Account Name		Distribution Amount	
<u>1928032</u>	Invoice	03/17/2021	LEGAL SERVICES	0.00	1,598.40	
	<u>100-1300-7068 000B</u>		CONTRACTUAL SERVICES		1,598.40	
2039	PARKHOUSE TIRE, INC.	03/18/2021	Regular	0.00	1,171.29	108582
Payable #	Payable Type	Post Date	Payable Description	Discount Amount	Payable Amount	
	Account Number		Account Name		Distribution Amount	
<u>2030198083</u>	Invoice	03/17/2021	VEHICLE MAINTENANCE	0.00	271.37	
	<u>100-2050-7037 0000</u>		VEHICLE MAINTENANCE		271.37	
<u>2030198391</u>	Invoice	03/17/2021	VEHICLE MAINTENANCE	0.00	271.37	
	<u>100-2050-7037 0000</u>		VEHICLE MAINTENANCE		271.37	
<u>2030198394</u>	Invoice	03/17/2021	VEHICLE MAINTENANCE	0.00	129.09	
	<u>100-2050-7037 0000</u>		VEHICLE MAINTENANCE		129.09	
<u>2030198604</u>	Invoice	03/17/2021	VEHICLE MAINTENANCE	0.00	499.46	
	<u>750-7100-7037 0000</u>		VEHICLE MAINTENANCE		499.46	
2871	PARTS AUTHORITY METRO LLC	03/18/2021	Regular	0.00	4,308.92	108583
Payable #	Payable Type	Post Date	Payable Description	Discount Amount	Payable Amount	
	Account Number		Account Name		Distribution Amount	
<u>091-230372</u>	Invoice	03/17/2021	Wheel Balancer for Vehicle Maintenance	0.00	4,308.92	
	<u>760-0000-8044 0000</u>		BUS LIFT/JACKSTAND/TO		4,308.92	
2072	POLYDYNE, INC.	03/18/2021	Regular	0.00	11,491.14	108584
Payable #	Payable Type	Post Date	Payable Description	Discount Amount	Payable Amount	
	Account Number		Account Name		Distribution Amount	
<u>1520405</u>	Invoice	03/17/2021	CHEMICALS & SUPPLIES	0.00	5,745.57	
	<u>700-4050-7070 0000</u>		SPECIAL DEPT SUPPLIES		5,745.57	
<u>1523687</u>	Invoice	03/17/2021	CHEMICALS & SUPPLIES	0.00	5,745.57	
	<u>700-4050-7070 0000</u>		SPECIAL DEPT SUPPLIES		5,745.57	
2083	PROFORMA	03/18/2021	Regular	0.00	114.22	108585
Payable #	Payable Type	Post Date	Payable Description	Discount Amount	Payable Amount	
	Account Number		Account Name		Distribution Amount	
<u>8156001361A</u>	Invoice	03/17/2021	OFFICE SUPPLIES	0.00	114.22	
	<u>100-2050-7025 0000</u>		OFFICE SUPPLIES		114.22	
3652	PRUDENTIAL OVERALL SUPPLY	03/18/2021	Regular	0.00	283.06	108586
Payable #	Payable Type	Post Date	Payable Description	Discount Amount	Payable Amount	
	Account Number		Account Name		Distribution Amount	
<u>23115240</u>	Invoice	03/17/2021	Streets - Prudential Uniforms	0.00	54.20	
	<u>100-3250-7065 0000</u>		UNIFORMS		54.20	
<u>23121229</u>	Invoice	03/17/2021	Streets - Prudential Uniforms	0.00	65.24	
	<u>100-3250-7065 0000</u>		UNIFORMS		65.24	
<u>23121243</u>	Invoice	03/17/2021	WW - Prudential Uniforms	0.00	81.81	
	<u>700-4050-7065 0000</u>		UNIFORMS		81.81	
<u>23124361</u>	Invoice	03/17/2021	WW - Prudential Uniforms	0.00	81.81	
	<u>700-4050-7065 0000</u>		UNIFORMS		81.81	
3479	R3 CONSULTING GROUP, INC	03/18/2021	Regular	0.00	6,635.00	108587
Payable #	Payable Type	Post Date	Payable Description	Discount Amount	Payable Amount	
	Account Number		Account Name		Distribution Amount	
<u>10221</u>	Invoice	03/17/2021	PROFESSIONAL SERVICES	0.00	6,635.00	
	<u>100-3100-7068 0000</u>		CONTRACTUAL SERVICES		6,635.00	

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2640	RAIMI + ASSOCIATES	03/18/2021	Regular	0.00	34,507.06	108588
Payable #	Payable Type	Post Date	Payable Description	Discount Amount	Payable Amount	
	Account Number		Account Name		Distribution Amount	
<u>20-4007</u>	Invoice	03/17/2021	General Plan Update	0.00	34,507.06	
	<u>500-0000-7068-0000</u>		CONTRACTUAL SERVICE		34,507.06	
			GENERAL PLAN UPDATE			
2104	RAMONA HUMANE SOCIETY INC	03/18/2021	Regular	0.00	2,519.40	108589
Payable #	Payable Type	Post Date	Payable Description	Discount Amount	Payable Amount	
	Account Number		Account Name		Distribution Amount	
<u>COB02282 02/28</u>	Invoice	03/17/2021	Ramona Humane Society Sheltering Servi	0.00	2,519.40	
	<u>100-2000-7068-0000</u>		CONTRACTUAL SERVICES		2,519.40	
			Ramona Humane Society Shelte			
1113	RYAN M. WESTBROOK INC	03/18/2021	Regular	0.00	169.00	108590
Payable #	Payable Type	Post Date	Payable Description	Discount Amount	Payable Amount	
	Account Number		Account Name		Distribution Amount	
<u>739109</u>	Invoice	03/17/2021	ANIMAL CARE SERVICES	0.00	169.00	
	<u>100-2000-7068-0000</u>		CONTRACTUAL SERVICES		169.00	
			ANIMAL CARE SERVICES			
2026	SECURITY SIGNAL DEVICES, INC	03/18/2021	Regular	0.00	1,234.70	108591
Payable #	Payable Type	Post Date	Payable Description	Discount Amount	Payable Amount	
	Account Number		Account Name		Distribution Amount	
<u>R-00268956</u>	Invoice	03/17/2021	SECURTIY SERVICE	0.00	218.65	
	<u>100-6000-7087-6025</u>		SECURITY - CITY HALL		158.40	
	<u>100-6000-7087-6026</u>		SECURITY- CITY HALL BLD		60.25	
<u>R-00269803</u>	Invoice	03/17/2021	SECURTIY SERVICE	0.00	138.00	
	<u>700-4050-7087-005X</u>		SECURITY SERVICES		138.00	
<u>R-00270286</u>	Invoice	03/17/2021	SECURTIY SERVICE	0.00	186.50	
	<u>100-6000-7087-6045</u>		SECURITY - COMMUNITY		186.50	
<u>R-00272547</u>	Invoice	03/17/2021	SECURTIY SERVICE	0.00	58.25	
	<u>100-6000-7087-6040</u>		SECURITY - POLICE DEPT		58.25	
<u>R-00272784</u>	Invoice	03/17/2021	SECURTIY SERVICE	0.00	59.85	
	<u>700-4050-7087-0000</u>		SECURITY SERVICES		59.85	
<u>R-00274154</u>	Invoice	03/17/2021	SECURTIY SERVICE	0.00	113.25	
	<u>100-6000-7087-6040</u>		SECURITY - POLICE DEPT		113.25	
<u>R-00274246</u>	Invoice	03/17/2021	SECURTIY SERVICE	0.00	179.55	
	<u>700-4050-7087-007A</u>		SECURITY SERVICES		179.55	
<u>R-00275574</u>	Invoice	03/17/2021	SECURTIY SERVICE	0.00	61.50	
	<u>750-7300-7087-0000</u>		SECURITY SERVICES		61.50	
<u>R-00276344</u>	Invoice	03/17/2021	SECURTIY SERVICE	0.00	55.65	
	<u>750-7000-7087-0000</u>		SECURITY SERVICES		55.65	
<u>R-00276739</u>	Invoice	03/17/2021	SECURTIY SERVICE	0.00	163.50	
	<u>700-4050-7087-005X</u>		SECURITY SERVICES		163.50	
4347	SHEARWONDERS SALON AND DAY SPA	03/18/2021	Regular	0.00	3,000.00	108592
Payable #	Payable Type	Post Date	Payable Description	Discount Amount	Payable Amount	
	Account Number		Account Name		Distribution Amount	
<u>GRAN1 03/17/21</u>	Invoice	03/17/2021	BUSINESS ASSISTANCE GRANT	0.00	3,000.00	
	<u>100-0000-7096-0000</u>		COMMUNITY PROGRAM		3,000.00	
			BUSINESS ASSISTANCE GRANT			
3260	SITONE LANDSCAPE SUPPLY, LLC	03/18/2021	Regular	0.00	1,630.43	108593
Payable #	Payable Type	Post Date	Payable Description	Discount Amount	Payable Amount	
	Account Number		Account Name		Distribution Amount	
<u>106170428-001</u>	Invoice	03/17/2021	SiteOne PO not to exceed \$40,000.	0.00	1,630.43	
	<u>100-6050-7070-0000</u>		SPECIAL DEPT SUPPLIES		1,630.43	
			SiteOne PO not to exceed \$40,0			
3498	SKM ENGINERRING LLC	03/18/2021	Regular	0.00	1,907.50	108594

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Payable #	Payable Type	Post Date	Payable Description	Discount Amount	Payable Amount	
	Account Number	Account Name	Item Description	Distribution Amount		
20700	Invoice	03/17/2021	SCADA SERVICES	0.00	1,907.50	
	700-4050-7068-0000	CONTRACTUAL SERVICES	SCADA SERVICES		438.49	
	700-4050-7068-0000	CONTRACTUAL SERVICES	SCADA SERVICES		1,469.01	
3031	SMARTHIRE	03/18/2021	Regular	0.00	169.00	108595
Payable #	Payable Type	Post Date	Payable Description	Discount Amount	Payable Amount	
	Account Number	Account Name	Item Description	Distribution Amount		
50387	Invoice	03/17/2021	HIRING COSTS	0.00	169.00	
	100-1240-6050-0000	RECRUITMENT AND HIRI	HIRING COSTS		169.00	
2311	SOUTHERN CALIFORNIA EDISON	03/18/2021	Regular	0.00	31,061.00	108596
Payable #	Payable Type	Post Date	Payable Description	Discount Amount	Payable Amount	
	Account Number	Account Name	Item Description	Distribution Amount		
03/17/21	Invoice	03/17/2021	ELECTRIC UTILITY	0.00	31,061.00	
	100-3250-7010-0000	UTILITIES	ELECTRIC UTILITY		15,362.91	
	100-3250-7010-003X	UTILITIES (IA 3)	ELECTRIC UTILITY		2,994.35	
	100-3250-7010-006B	UTILITIES (IA 6B)	ELECTRIC UTILITY		2,431.30	
	100-3250-7010-007A	UTILITIES (IA 7A)	ELECTRIC UTILITY		15.06	
	100-3250-7010-007B	UTILITIES (IA 7B)	ELECTRIC UTILITY		92.92	
	100-3250-7010-008A	UTILITIES (IA 8A)	ELECTRIC UTILITY		606.10	
	100-3250-7010-008C	UTILITIES (IA 8C)	ELECTRIC UTILITY		632.12	
	100-3250-7010-011A	UTILITIES (IA 11A)	ELECTRIC UTILITY		189.50	
	100-3250-7010-014B	UTILITIES (IA 14B)	ELECTRIC UTILITY		48.13	
	100-3250-7010-014X	UTILITIES (IA 14)	ELECTRIC UTILITY		1,788.71	
	100-3250-7010-018X	UTILITIES (IA 18)	ELECTRIC UTILITY		128.72	
	100-3250-7010-019C	UTILITIES (IA 19C)	ELECTRIC UTILITY		3,172.36	
	100-3250-7010-06A1	UTILITIES (IA 6A1)	ELECTRIC UTILITY		933.45	
	100-6000-7010-6045	UTILITIES - COMMUNITY	ELECTRIC UTILITY		2,621.17	
	100-6050-7010-06A1	UTILITIES IA 6A1	ELECTRIC UTILITY		44.20	
2331	STAGECOACH TOWING	03/18/2021	Regular	0.00	85.00	108597
Payable #	Payable Type	Post Date	Payable Description	Discount Amount	Payable Amount	
	Account Number	Account Name	Item Description	Distribution Amount		
78968	Invoice	03/17/2021	VEHICLE MAINTENANCE	0.00	85.00	
	100-2050-7037-0000	VEHICLE MAINTENANCE	VEHICLE MAINTENANCE		85.00	
3680	SWANK MOTION PICTURES, INC	03/18/2021	Regular	0.00	435.00	108598
Payable #	Payable Type	Post Date	Payable Description	Discount Amount	Payable Amount	
	Account Number	Account Name	Item Description	Distribution Amount		
BO 1780153	Invoice	03/17/2021	COMMUNITY EVENT	0.00	435.00	
	100-1550-7040-0000	RECREATION PROGRAMS	COMMUNITY EVENT		435.00	
2382	T MOBILE	03/18/2021	Regular	0.00	600.00	108599
Payable #	Payable Type	Post Date	Payable Description	Discount Amount	Payable Amount	
	Account Number	Account Name	Item Description	Distribution Amount		
9434525532	Invoice	03/17/2021	DEPT SUPPLIES	0.00	390.00	
	100-2050-7070-0000	SPECIAL DEPT SUPPLIES	DEPT SUPPLIES		390.00	
9434525533	Invoice	03/17/2021	DEPT SUPPLIES	0.00	210.00	
	100-2050-7070-0000	SPECIAL DEPT SUPPLIES	DEPT SUPPLIES		210.00	
4327	TEC EQUIPMENT INC	03/18/2021	Regular	0.00	2,258.09	108600
Payable #	Payable Type	Post Date	Payable Description	Discount Amount	Payable Amount	
	Account Number	Account Name	Item Description	Distribution Amount		
13417021	Invoice	03/17/2021	VEHICLE MAINTENANCE	0.00	1,778.09	
	750-7400-7037-0000	VEHICLE MAINTENANCE	VEHICLE MAINTENANCE		1,778.09	
5017189XS	Invoice	03/17/2021	VEHICLE MAINTENANCE	0.00	480.00	
	750-7400-7037-0000	VEHICLE MAINTENANCE	VEHICLE MAINTENANCE		480.00	

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Date Range: 03/12/2021 Item 1. 21

Vendor Number	Vendor Name	Payment Date	Payment Type	Discount Amount	Payment Amount	Number
2407	THE GAS COMPANY	03/18/2021	Regular	0.00	2,238.27	108601
Payable #	Payable Type	Post Date	Payable Description	Discount Amount	Payable Amount	
	Account Number		Account Name		Distribution Amount	
<u>03822937417 03/</u>	Invoice	03/17/2021	GAS UTILITY	0.00	88.12	
	<u>100-6000-7010-6041</u>		UTILITIES - POLICE ANNEX		88.12	
<u>05789544425 03/</u>	Invoice	03/17/2021	GAS UTILITY	0.00	729.50	
	<u>100-6000-7010-6045</u>		UTILITIES - COMMUNITY		729.50	
<u>09712228007 04/</u>	Invoice	03/17/2021	GAS UTILITY	0.00	1,135.00	
	<u>100-6000-7010-6025</u>		UTILITIES - CITY HALL		1,135.00	
<u>10552230004 03/</u>	Invoice	03/17/2021	GAS UTILITY	0.00	166.17	
	<u>750-7300-7010-0000</u>		UTILITIES		166.17	
<u>19782338008 04/</u>	Invoice	03/17/2021	GAS UTILITY	0.00	119.48	
	<u>100-6000-7010-6055</u>		UTILITIES - FIRE STATION		119.48	
4345	THE GENTLEMAN'S BARBER SHOP	03/18/2021	Regular	0.00	3,000.00	108602
Payable #	Payable Type	Post Date	Payable Description	Discount Amount	Payable Amount	
	Account Number		Account Name		Distribution Amount	
<u>GRANT 03/17/21</u>	Invoice	03/17/2021	BUSINESS ASSISTANCE GRANT	0.00	3,000.00	
	<u>100-0000-7096-0000</u>		COMMUNITY PROGRAM		3,000.00	
2416	THE PRESS-ENTERPRISE	03/18/2021	Regular	0.00	519.90	108603
Payable #	Payable Type	Post Date	Payable Description	Discount Amount	Payable Amount	
	Account Number		Account Name		Distribution Amount	
<u>0011440452</u>	Invoice	03/17/2021	ADVERTISING	0.00	156.80	
	<u>100-1350-7020-0000</u>		ADVERTISING		156.80	
<u>0011443242</u>	Invoice	03/17/2021	ADVERTISING	0.00	108.80	
	<u>100-1150-7020-0000</u>		ADVERTISING		108.80	
<u>0011444225</u>	Invoice	03/17/2021	ADVERTISING	0.00	254.30	
	<u>100-1350-7020-0000</u>		ADVERTISING		254.30	
4267	THERESA MICHEL INVESTIGATIONS	03/18/2021	Regular	0.00	1,500.00	108604
Payable #	Payable Type	Post Date	Payable Description	Discount Amount	Payable Amount	
	Account Number		Account Name		Distribution Amount	
<u>6</u>	Invoice	03/17/2021	HIRING COSTS	0.00	1,500.00	
	<u>100-1240-6050-0000</u>		RECRUITMENT AND HIRI		1,500.00	
2442	TOP-LINE INDUSTRIAL SUPPLY	03/18/2021	Regular	0.00	382.51	108605
Payable #	Payable Type	Post Date	Payable Description	Discount Amount	Payable Amount	
	Account Number		Account Name		Distribution Amount	
<u>431515</u>	Invoice	03/17/2021	EQUIPMENT MAINTENANCE	0.00	242.33	
	<u>100-6050-7090-0000</u>		EQUIPMENT SUPPLIES/M		242.33	
<u>433459</u>	Invoice	03/17/2021	EQUIPMENT MAINTENANCE	0.00	5.46	
	<u>100-6050-7090-0000</u>		EQUIPMENT SUPPLIES/M		5.46	
<u>434074</u>	Invoice	03/17/2021	VEHICLE MAINTENANCE	0.00	80.81	
	<u>750-7300-7037-0000</u>		VEHICLE MAINTENANCE		80.81	
<u>434241</u>	Invoice	03/17/2021	VEHICLE MAINTENANCE	0.00	53.91	
	<u>750-7900-7037-0000</u>		VEHICLE MAINTENANCE		53.91	
2461	UNDERGROUND SERVICE ALERT	03/18/2021	Regular	0.00	293.82	108606
Payable #	Payable Type	Post Date	Payable Description	Discount Amount	Payable Amount	
	Account Number		Account Name		Distribution Amount	
<u>220210052</u>	Invoice	03/17/2021	DIG ALERT - SEWER	0.00	105.70	
	<u>700-4050-7068-0000</u>		CONTRACTUAL SERVICES		105.70	
<u>DSB20200048</u>	Invoice	03/17/2021	DIG ALERT - SEWER	0.00	94.06	
	<u>700-4050-7068-0000</u>		CONTRACTUAL SERVICES		94.06	
<u>DSB20200679</u>	Invoice	03/17/2021	DIG ALERT - SEWER	0.00	94.06	

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Vendor Number	Vendor Name	Payment Date	Payment Type	Discount Amount	Payment Amount	Number
	700-4050-7068-0000	CONTRACTUAL SERVICES	DIG ALERT - SEWER		94.06	
3923	UPDOG MEDIA, LLC	03/18/2021	Regular	0.00	10,620.00	108607
Payable #	Payable Type	Post Date	Payable Description	Discount Amount	Payable Amount	
	Account Number	Account Name	Item Description	Distribution Amount		
<u>1080</u>	Invoice	03/17/2021	Bus Wrap Removal and Installation	0.00	10,620.00	
	<u>760-0000-7068-0000</u>	CONTRACTUAL SERVICE	Bus Wrap Removal and Installati		10,620.00	
2484	VERIZON	03/18/2021	Regular	0.00	5,263.63	108608
Payable #	Payable Type	Post Date	Payable Description	Discount Amount	Payable Amount	
	Account Number	Account Name	Item Description	Distribution Amount		
<u>9874239222</u>	Invoice	03/17/2021	PHONE UTILITY	0.00	4,280.19	
	<u>100-1230-7015-0000</u>	TELEPHONE	PHONE UTILITY		3,525.60	
	<u>700-4050-7015-0000</u>	TELEPHONE	PHONE UTILITY		211.19	
	<u>750-7000-7015-0000</u>	TELEPHONE	PHONE UTILITY		543.40	
<u>9874239223</u>	Invoice	03/17/2021	PHONE UTILITY	0.00	760.20	
	<u>750-7100-7015-0000</u>	TELEPHONE	PHONE UTILITY		72.37	
	<u>750-7400-7015-0000</u>	TELEPHONE	PHONE UTILITY		216.66	
	<u>750-7600-7015-0000</u>	TELEPHONE	PHONE UTILITY		180.93	
	<u>750-7700-7015-0000</u>	TELEPHONE	PHONE UTILITY		72.60	
	<u>750-7800-7015-0000</u>	TELEPHONE	PHONE UTILITY		36.26	
	<u>750-7900-7015-0000</u>	TELEPHONE	PHONE UTILITY		36.26	
	<u>750-8000-7015-0000</u>	TELEPHONE	PHONE UTILITY		36.26	
	<u>750-8100-7015-0000</u>	TELEPHONE	PHONE UTILITY		72.60	
	<u>750-8200-7015-0000</u>	TELEPHONE	PHONE UTILITY		36.26	
<u>9874239224</u>	Invoice	03/17/2021	IPADS - 1550	0.00	76.02	
	<u>100-1230-7015-0000</u>	TELEPHONE	IPADS - 1550		76.02	
<u>9874239225</u>	Invoice	03/17/2021	IPADS - 3100	0.00	76.02	
	<u>100-1230-7015-0000</u>	TELEPHONE	IPADS - 3100		76.02	
<u>9874239226</u>	Invoice	03/17/2021	IPADS - 1550/6050	0.00	71.20	
	<u>100-1230-7015-0000</u>	TELEPHONE	IPADS - 1550/6050		71.20	
2516	VOHNE LICHE KENNELS INC	03/18/2021	Regular	0.00	250.00	108609
Payable #	Payable Type	Post Date	Payable Description	Discount Amount	Payable Amount	
	Account Number	Account Name	Item Description	Distribution Amount		
<u>17083</u>	Invoice	03/17/2021	K9 TRAINING	0.00	125.00	
	<u>100-2080-7066-0000</u>	TRAVEL, EDUCATION, TRA	K9 TRAINING		125.00	
<u>17134</u>	Invoice	03/17/2021	K9 TRAINING	0.00	125.00	
	<u>100-2080-7066-0000</u>	TRAVEL, EDUCATION, TRA	K9 TRAINING		125.00	
4222	VSTYLES, INC	03/18/2021	Regular	0.00	3,000.00	108610
Payable #	Payable Type	Post Date	Payable Description	Discount Amount	Payable Amount	
	Account Number	Account Name	Item Description	Distribution Amount		
<u>GRANT 03/17/21</u>	Invoice	03/17/2021	BUSINESS ASSISTANCE GRANT	0.00	3,000.00	
	<u>100-0000-7096-0000</u>	COMMUNITY PROGRAM	BUSINESS ASSISTANCE GRANT		3,000.00	
3422	WAXIE SANITARY SUPPLY	03/18/2021	Regular	0.00	434.77	108611
Payable #	Payable Type	Post Date	Payable Description	Discount Amount	Payable Amount	
	Account Number	Account Name	Item Description	Distribution Amount		
<u>79824852</u>	Invoice	03/17/2021	DEPT SUPPLIES	0.00	434.77	
	<u>100-6050-7070-5999</u>	SPEC DEPT EXP - ALL PAR	DEPT SUPPLIES		434.77	
2568	ZERO WASTE USA	03/18/2021	Regular	0.00	258.56	108612

Check Report

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Vendor Number Payable #	Vendor Name Payable Type Account Number	Payment Date Post Date	Payment Type Payable Description Account Name Item Description	Discount Amount Discount Amount	Payment Amount Payable Amount Distribution Amount	Number
392713	Invoice <u>100-6050-7070-5450</u> <u>100-6050-7070-5750</u>	03/17/2021	DEPT SUPPLIES SPEC DEPT EXP - STETSON SPECIAL DEPT SUPPLIES (DEPT SUPPLIES	0.00	258.56 129.28 129.28	

Bank Code APBNK Summary

Payment Type	Payable Count	Payment Count	Discount	Payment
Regular Checks	144	79	0.00	320,259.16
Manual Checks	0	0	0.00	0.00
Voided Checks	0	0	0.00	0.00
Bank Drafts	0	0	0.00	0.00
EFT's	5	2	0.00	65,551.60
	149	81	0.00	385,810.76

All Bank Codes Check Summary

Payment Type	Payable Count	Payment Count	Discount	Payment
Regular Checks	144	79	0.00	320,259.16
Manual Checks	0	0	0.00	0.00
Voided Checks	0	0	0.00	0.00
Bank Drafts	0	0	0.00	0.00
EFT's	5	2	0.00	65,551.60
	149	81	0.00	385,810.76

Fund Summary

Fund	Name	Period	Amount
999	POOLED CASH	3/2021	385,810.76
			385,810.76



CITY COUNCIL CLOSED & REGULAR SESSION

550 E. 6th Street, Beaumont, CA

Tuesday, April 20, 2021

Closed Session: 5:00 PM | Regular Meeting: 6:00 PM

Materials related to an item on this agenda submitted to the City Council after distribution of the agenda packets are available for public inspection in the City Clerk's office at 550 E. 6th Street during normal business hours

MINUTES

CLOSED SESSION - 5:00 PM

A Closed Session of the City Council / Beaumont Financing Authority / Beaumont Utility Authority / Beaumont Successor Agency (formerly RDA)/Beaumont Parking Authority / Beaumont Public Improvement Authority may be held in accordance with state law which may include, but is not limited to, the following types of items: personnel matters, labor negotiations, security matters, providing instructions to real property negotiators and conference with legal counsel regarding pending litigation. Any public comment on Closed Session items will be taken prior to the Closed Session. Any required announcements or discussion of Closed Session items or actions following the Closed Session will be made in the City Council Chambers.

CALL TO ORDER at 5:00 p.m.

Present: Mayor Lara, Mayor Pro Tem White, Council Member Martinez (at 5:08 p.m.), Council Member Fenn, Council Member Santos

Public Comments Regarding Closed Session

None

1. Conference with Labor Negotiators - Pursuant to Government Code Section 54957.6 City Designated Representatives City Manager Todd Parton and Administrative Services Director Kari Mendoza. Employee Organizations: Beaumont Police Officers Association and SEIU

No reportable action.

Adjourn to Regular Session

REGULAR SESSION - 6:00 PM

CALL TO ORDER at 6:02 p.m.

Present: Mayor Lara, Mayor Pro Tem White, Council Member Martinez, Council Member Fenn, Council Member Santos

Report out from Closed Session: *see above*

Action on any Closed Session Items: **None**

Action of any Requests for Excused Absence: **None**

Pledge of Allegiance

Approval / Adjustments to the Agenda: **None**

Conflict of Interest Disclosure: **None**

ANNOUNCEMENTS/ RECOGNITION / PROCLAMATIONS / CORRESPONDENCE

PUBLIC COMMENT PERIOD (ITEMS NOT ON THE AGENDA)

Any one person may address the City Council on any matter not on this agenda. If you wish to speak, please fill out a "Public Comment Form" provided at the back table and give it to the City Clerk. There is a three (3) minute time limit on public comments. There will be no sharing or passing of time to another person. State Law prohibits the City Council from discussing or taking actions brought up by your comments.

S. Williams - Spoke regarding a needs assessment in regards to youth recreation in Beaumont.

R. Roy - Requested that class 1 bike lanes be included in the General Plan.

CONSENT CALENDAR

Items on the consent calendar are taken as one action item unless an item is pulled for further discussion here or at the end of action items. Approval of all Ordinances and Resolutions to be read by title only.

1. Ratification of Warrants

Recommended Action:

Ratify warrants dated:

February 18, 2021

February 25, 2021

March 4, 2021

2. Approval of Minutes

Recommended Action:

Approval of minutes dated April 6, 2021.

3. Accept Performance and Payment Bonds and Security Agreements for Street Improvements from RSI Communities - California LLC, Tract 27971-7 within the Olivewood Specific Plan

Recommended Action:

Accept Performance and Payment Bonds and Security Agreements for Street Improvements from RSI Communities-California LLC, Tract 27971-7 within the Olivewood Specific Plan.

4. Economic Development Subsidy Report Pursuant to Government Code Section 53083 for Wolverine Worldwide, Inc., Located at 1020 Prosperity Way, Beaumont, CA 92223

Recommended Action:

Receive and file the Economic Development Subsidy report pursuant to Government Code Section 53083 for Wolverine Worldwide, Inc.

Motion by Council Member Santos

Second by Mayor Pro Tem White

To approve the Consent Calendar

Approved by a unanimous vote.

PUBLIC HEARINGS

Approval of all Ordinances and Resolutions to be read by title only.

5. Public Hearing: Fiscal Year 2021/22 - 2022/24 Short Range Transit Plan - Draft

Public Hearing opened at 6:37 p.m.

R. Roy - Concerns with needing active transportation and multi-modal transportation.

Public Hearing closed at 6:48 p.m.

Motion by Mayor Pro Tem White

Second by Mayor Lara

To adopt the plan as presented.

Approved by a unanimous vote.

6. Hold A Public Hearing and Consider a Proposed Ordinance to Update the Local Development Mitigation Fee (LDMF) for Funding the Preservation of the Natural Ecosystems in Accordance with the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP) and Consider Adopting a Resolution Establishing the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP) Local Development Mitigation Fee Applicable to all Developments in the Plan Area

Public Hearing continued from March 16, 2021 at 6:52 p.m.

No comments

Public Hearing closed at 6:52 p.m.

Motion by Mayor Lara

Second by Council Member Santos

To waive the full reading and approve by title only, "A Resolution of the City of Beaumont Establishing the Western Riverside County Multiple Species Habitat

Conservation Plan Local Development Mitigation Fee Applicable to all Developments in the Plan Area,” and

Waive the first full reading and approve by title only, “An Ordinance of the City Council of the City of Beaumont to Update the Local Development Mitigation Fee for Funding the Preservation of Natural Ecosystems in Accordance with the Western Riverside County Multiple Species Habitat Conservation Plan.”

Approved by a unanimous vote.

ACTION ITEMS

Approval of all Ordinances and Resolutions to be read by title only.

7. Dissolution of Improvement Area Nos. 19D and 19F of CFD No. 93-1 and Formation of CFD No. 2021-1

Motion by Mayor Pro Tem White

Second by Mayor Lara

To waive the full reading and adopt by title only, “Resolution of the City Council of the City of Beaumont, California, Declaring Its Intention to Establish City of Beaumont Community Facilities District No. 2021-1 (Fairway Canyon), To Authorize the Levy of a Special Tax to Pay the Cost of Acquiring or Constructing Certain Public Facilities, and Paying for Certain Incidental Expenses and to Pay Debt Service on Bonded Indebtedness;”

Waive the full reading and adopt by title only, “Resolution of the City Council of the City of Beaumont, California, Declaring its Intention to Incur Bonded Indebtedness within City of Beaumont Community Facilities District No. 2021-1 (Fairway Canyon);” and Approve the Reimbursement Agreement.

Approved by a unanimous vote.

8. Second Amendment to the Agreement for Maintenance Services with Jan-Pro of Ontario, Inc., for Custodial Services

Motion by Council Member Fenn

Second by Mayor Lara

To approve the second amendment to the Agreement for Maintenance Services with Jan-Pro of Ontario, Inc., in the amount of Seventy-Three Thousand Nine-Hundred Twenty-Two dollars and Twenty-Six cents (\$73,922.26) and authorize the City Manager to execute the amendment on behalf of the City with the correction of the completion date to read June 30, 2021.

Approved by a unanimous vote.

9. Approve a Professional Services Agreement with Akel Engineering Group, Inc., for a Total Not-to-Exceed Amount of \$100,000 for Hydraulic Modeling Services

**Motion by Mayor Pro Tem White
Second by Council Member Santos**

To approve a professional services agreement with Akel Engineering Group, Inc., for a total not-to-exceed amount of \$100,000 for Hydraulic Modeling Services.

Approved by a unanimous vote.

10. Approve the Street Selection for the Annual Citywide Street Rehabilitation and Maintenance 20/21 Project CIP R-03 and R-04 and the 2021 Mid-Year Street Enhancement Project CIP R-06 and Authorize City Staff to Finalize the Bid Package and Solicit Bids for the Project

Public comment period opened

D. Jagers - Representing the Beaumont Cherry Valley Water District spoke in support of the City's street improvement projects.

Public comment period closed

**Motion by Mayor Pro Tem White
Second by Council Member Martinez**

To approve the street selection for the Annual Citywide Street Rehabilitation and Maintenance 20/21 project CIP R-03 and R-04 and the 2021 Mid-Year Street Enhancement project CIP R-06, and

Authorize City staff to finalize the bid package and solicit bids for the project.

Approved by a unanimous vote.

11. Approval of Title, Classification and Salary Changes

**Motion by Council Member Martinez
Second by Mayor Lara**

**To approve of Planning Manager title change,
Approve of Assistant Director of Public Works/Assistant City Engineer classification and salary scale,
Approve of Public Works Manager to Principal Engineer title change, and
Approve of Transit Operations Manager classification and salary scale.**

Approved by a unanimous vote.

12. City Council Approval of Change Order No. 19 for the Wastewater Treatment Plant Upgrade/Expansion in the Amount Not to Exceed \$98,556.60 for the Installation of Aeration Basin Risers, Aeration Basin Network Switch, High Level Alarm for the Fine Screens and the Addition of Actuators at the Influent Gates

**Motion by Mayor Pro Tem White
Second by Mayor Lara**

To approve Change Order No. 19 for the Wastewater Treatment Plant Upgrade and Expansion in the amount not to exceed \$95,560.60 for the installation of aeration basin risers, aeration basin network switch, high level alarm for the fine screens and the addition of actuators at the influent gates.

Approved by a unanimous vote.

13. Authorize the Installation and Connection of a New Potable Water Supply with Beaumont Cherry Valley Water District for the Wastewater Treatment Plant and Deposit an Amount of \$30,275 with the District for the Completion of the Work

Motion by Council Member Martinez

Second by Council Member Santos

To authorize City staff to make a deposit of \$30,275 to Beaumont Cherry Valley Water District for the connection and installation of a new water line service for the Wastewater Treatment Plant, and

Authorize City staff to pay additional expenses associated with this work should the costs exceed \$30,275.

Approved by a unanimous vote.

14. City Attorney Invoices for the Month of March 2021

City Attorney John Pinkney was recused.

Motion by Council Member Martinez

To approve invoices in the amount of \$85,657.00

Approved by a unanimous vote.

LEGISLATIVE UPDATES AND DISCUSSION

Council consensus to add AB 377 to the Legislative Watch List.

ECONOMIC DEVELOPMENT UPDATE

Report out from the recent Economic Development Committee meeting.

CITY TREASURER REPORT

Report out from the recent Finance and Audit Committee Meeting

CITY CLERK REPORT

CITY ATTORNEY REPORT

- 15. Status of Pending Litigation**

CITY MANAGER REPORT

FUTURE AGENDA ITEMS

- Update of the Downtown Revitalization project timeline.

COUNCIL REPORTS

Santos - Shared a business grant program for restaurants. Gave a report out from the RTA meeting and the Beaumont PD promotion ceremony.

Fenn - Gave a report out from the Economic Development Committee.

Martinez - Reported out from the Finance and Audit Committee, and Cal Cities environment policy committee meeting.

White - Attended the Beaumont PD promotion ceremony, a BCVWD meeting and a RCTC meeting.

Lara - Will be attending the Riverside County Mayor's meeting, a WRCOG meeting. Attended the Beaumont PD ceremony, and thanked the grounds department.

ADJOURNMENT at 8:32 p.m.



Staff Report

TO: City Council
FROM: Elizabeth Gibbs, Community Services Director
DATE: May 4, 2021
SUBJECT: Approval of Double Map, Inc., Invoice and Subscription Renewal

Background and Analysis:

The Transit Services Department utilizes a program called Double Map for real-time GPS tracking of buses. Included in the subscription is a web-based interface and smart phone application for bus passengers. This software has been invaluable to transit passengers to track the buses as they prepare to board.

In December 2013, the City entered into an agreement with Double Map, Inc. There are minimal alternatives to this GPS tracking software and City staff has been unable to find a suitable alternative that offers both web-based and smart phone application with less start-up and subscription costs than currently established with Double Map, Inc.

Fiscal Impact:

The cost for subscription renewal is included in the Transit Services operating budget and is divided between route account numbers 750-7100, 7400, 7600, 7700, 7800, 7900, 8000, 8100, and 8300-7071-0000. City staff estimates it cost approximately \$685 to prepare this staff report.

Recommended Action:

Approve invoice CINV-004991 in the amount of \$27,716.67 for a one-year renewal of Double Map, Inc. subscription services; and
Issue a Purchase Order in the amount of \$27,716.67 to Double Map, Inc.

Attachments:

- A. Invoice CINV-004991



Invoice #: CINV-004991

From

DoubleMap, Inc.
PO Box 44009
Indianapolis, IN 46244

FEIN: 45-3658717

Invoice Summary

Invoice #: CINV-004991
Customer PO #:
Invoice Date: 04 01 2021
Terms: Net 30
Due Date: 05 01 2021
Amount Due (USD): \$27,716.67

Bill To:

City of Beaumont CA
550 E SIXTH ST
BEAUMONT, CA 92223-2253
United States

Ship To:

City of Beaumont CA
550 E SIXTH ST
BEAUMONT
CA
92223-2253
United States

Memo: For Subscription Fees on [2020-2022 Renewal] and Transaction 2

ITEM/DESCRIPTION	QTY	RATE	AMOUNT
DoubleMap:Subscription:Base System CAD/AVL Subscription fee for the term starting 04/01/2020 and ending 03/31/2022. This invoice billing period is from 04/01/2021 through 03/31/2022.	1	\$19,146.66	\$19,146.66
DoubleMap:Subscription:DPC Reporting Subscription & Support Subscription fee for the term starting 04/01/2020 and ending 03/31/2022. This invoice billing period is from 04/01/2021 through 03/31/2022.	1	\$5,813.34	\$5,813.34
DoubleMap:Subscription:Base System CAD/AVL Subscription fee for the term starting 02/22/2021 and ending 03/31/2022. This invoice billing period is from 04/01/2021 through 03/31/2022.	1	\$2,393.34	\$2,393.34
DoubleMap:Subscription:DPC Reporting Subscription & Support Subscription fee for the term starting 02/22/2021 and ending 03/31/2022. This invoice billing period is from 04/01/2021 through 03/31/2022.	1	\$363.33	\$363.33
		SUBTOTAL	\$27,716.67
		Sales Tax	\$0.00
		TOTAL	\$27,716.67
		Payments/Credits Applied	(\$0.00)

Total Due

\$27,7 Item 3.

For invoicing questions, contact amber@doublemap.com
Visit us at our [website!](#)



Staff Report

TO: City Council
FROM: Jeff Mohlenkamp, Finance Director
DATE: May 4, 2021
SUBJECT: Single Audit Report for FY2020

Background and Analysis:

All public entities that expend more than \$750,000 in Federal funds are required to conduct a single audit. The single audit reviews the expenditure of the Federal funds and evaluates the internal controls of the public entity that are designed to ensure expenditures are handled appropriately and in compliance with both City policies and with internal control standards.

The audit, performed by the firm of Rogers, Anderson, Malady & Scott, LLP, does not express an opinion on the effectiveness of the City's internal control. The report does provide the results of internal control testing and the findings from that process. These findings were highlighted and presented to City Council on February 2, 2021. The internal control findings were presented during that meeting and are also included in the attached single audit report. There are no additional findings that were not addressed during the February 2, 2021, audit presentation.

Definition of Deficiency, Significant Deficiency or Material Weakness

A **deficiency** in internal control exists when the design or operation of a control does not allow management or employees in the normal course of performing their assigned functions, to prevent or detect and correct misstatements on a timely basis. A **material weakness** is a deficiency, or combination of deficiencies, in internal control, such that there is reasonable possibility that a material misstatement of the City's financial statements will not be prevented, or detected and corrected on a timely basis. A **significant deficiency** is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance.

Internal Control Findings

The audit did not identify any material weaknesses but did identify three new findings that are significant deficiencies and two prior year significant deficiencies. Each finding is listed below and explained in detail within Attachment A.

- Finding 2020-001 – Cash Disbursements Process – Segregation of Duties
- Finding 2020-002 – Payroll Process – Segregation of Duties
- Finding 2020-003 – Payroll Process – Personnel Action Forms
- Finding 2020-004 – Segregation of Duties for Business License Process
- Finding 2020-005 – Overhead Cost Allocation

City staff has implemented corrective action on all findings noted by the auditors with the exception of overhead cost allocation having an implementation target date of September 2021.

Fiscal Impact:

City staff estimates it costs approximately \$4,875 to prepare this staff report.

Recommended Action:

Receive and file the FY2020 Single Audit Report.

Attachments:

- A. FY2020 Single Audit Report



City of Beaumont

Beaumont, California

Single Audit Report on Federal Awards

For the Year Ended June 30, 2020



ROGERS, ANDERSON, MALODY & SCOTT, LLP
CERTIFIED PUBLIC ACCOUNTANTS, SINCE 1948

City of Beaumont

**Single Audit Report on Federal Awards
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**REPORT ON INTERNAL CONTROL OVER FINANCIAL REPORTING
AND ON COMPLIANCE AND OTHER MATTERS BASED ON AN
AUDIT OF FINANCIAL STATEMENTS PERFORMED IN
ACCORDANCE WITH GOVERNMENT AUDITING STANDARDS**

PARTNERS

Brenda L. Odle, CPA, MST
Terry P. Shea, CPA
Scott W. Manno, CPA, CGMA
Leena Shanbhag, CPA, MST, CGMA
Bradferd A. Welebir, CPA, MBA, CGMA
Jenny W. Liu, CPA, MST

Independent Auditor's Report

To the Honorable City Council
City of Beaumont
Beaumont, California

MANAGERS / STAFF

Charles De Simoni, CPA
Gardenya Duran, CPA
Brianna Schultz, CPA
Jingjie Wu, CPA
Evelyn Morentin-Barcena, CPA
Veronica Hernandez, CPA
Tara R. Thorp, CPA, MSA
Laura Arvizu, CPA
Louis Fernandez, CPA
Abigail Hernandez Conde, CPA, MSA
Zoe Xinlu Zhang, CPA, MSA
John Maldonado, CPA, MSA

We have audited, in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards* issued by the Comptroller General of the United States, the financial statements of the governmental activities, the business-type activities, the aggregate remaining fund information and each major fund of the City of Beaumont (the City) as of and for the year ended June 30, 2020, and the related notes to the financial statements, which collectively comprise the City's basic financial statements, and have issued our report thereon dated January 4, 2021.

Internal Control over Financial Reporting

In planning and performing our audit of the financial statements, we considered the City's internal control over financial reporting (internal control) to determine the audit procedures that are appropriate in the circumstances for the purpose of expressing our opinions on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of the City's internal control. Accordingly, we do not express an opinion on the effectiveness of the City's internal control.

Our consideration of internal control over financial reporting was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control over financial reporting that might be material weaknesses or significant deficiencies and therefore, material weaknesses or significant deficiencies may exist that have not been identified. However, as described in the accompanying Schedule of Findings and Questioned Cost, we identified certain deficiencies in internal control that we consider to be significant deficiencies.

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for CPA Firms*

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Quality Center*

*Employee Benefit Plan
Audit Quality Center*

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Certified Public Accountants



A *deficiency in internal control* exists when the design or operation of a control does not allow management or employees in the normal course of performing their assigned functions, to prevent, or detect and correct misstatements on a timely basis. A *material weakness* is a deficiency, or a combination of deficiencies, in internal control, such that there is a reasonable possibility that a material misstatement of the City's financial statements will not be prevented, or detected and corrected on a timely basis. A *significant deficiency* is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance. We identified deficiencies in internal control over financial reporting, described in the accompanying Schedule of Findings and Questioned Costs as items 2020-001, 2020-002, 2020-003, 2020-004, and 2020-005, that we consider to be significant deficiencies.

Compliance and Other Matters

As part of obtaining reasonable assurance about whether the City's financial statements are free from material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements, noncompliance with which could have a direct and material effect on the determination of financial statement amounts. However, providing an opinion on compliance with those provisions was not an objective of our audit and, accordingly, we do not express such an opinion. The results of our tests disclosed no instances of noncompliance or other matters that are required to be reported under *Government Auditing Standards*.

City's Responses to Findings

The City's responses to the findings identified in our audit are described in the accompanying Schedule of Findings and Questioned Costs. The City's responses were not subjected to the auditing procedures applied in the audit of the financial statements and accordingly, we express no opinion on them.

Purpose of this Report

The purpose of this report is solely to describe the scope of our testing of internal control and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the City's internal control or on compliance. This report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the City's internal control and compliance. Accordingly, this communication is not suitable for any other purpose.

Rogers, Anderson, Malody & Scott, LLP.

San Bernardino, California
January 4, 2021



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REPORT ON COMPLIANCE FOR EACH MAJOR FEDERAL PROGRAM; REPORT ON INTERNAL CONTROL OVER COMPLIANCE; AND REPORT ON SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS REQUIRED BY THE UNIFORM GUIDANCE

Independent Auditor's Report

PARTNERS

Brenda L. Odle, CPA, MST
Terry P. Shea, CPA
Scott W. Manno, CPA, CGMA
Leena Shanbhag, CPA, MST, CGMA
Bradferd A. Welebir, CPA, MBA, CGMA
Jenny W. Liu, CPA, MST

To the Honorable City Council
City of Beaumont
Beaumont, California

Report on Compliance for Each Major Federal Program

We have audited the City of Beaumont's (the City's) compliance with the types of compliance requirements described in the *OMB Compliance Supplement* that could have a direct and material effect on each of the City's major federal programs for the year ended June 30, 2020. The City's major federal programs are identified in the summary of auditor's results section of the accompanying schedule of findings and questioned costs.

MANAGERS / STAFF

Charles De Simoni, CPA
Gardenya Duran, CPA
Brianna Schultz, CPA
Jingjie Wu, CPA
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Laura Arvizu, CPA
Louis Fernandez, CPA
Abigail Hernandez Conde, CPA, MSA
Zoe Xinlu Zhang, CPA, MSA
John Maldonado, CPA, MSA

Management's Responsibility

Management is responsible for compliance with federal statutes, regulations, and the terms and conditions of its federal awards applicable to its federal programs.

Auditor's Responsibility

Our responsibility is to express an opinion on compliance for each of the City's major federal programs based on our audit of the types of compliance requirements referred to above. We conducted our audit of compliance in accordance with auditing standards generally accepted in the United States of America; the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States; and the audit requirements of Title 2 U.S. *Code of Federal Regulations (CFR) Part 200, Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance). Those standards and the Uniform Guidance require that we plan and perform the audit to obtain reasonable assurance about whether noncompliance with the types of compliance requirements referred to above that could have a direct and material effect on a major federal program occurred. An audit includes examining, on a test basis, evidence about the City's compliance with those requirements and performing such other procedures as we considered necessary in the circumstances.

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*Governmental Audit
Quality Center*

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Audit Quality Center*

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We believe that our audit provides a reasonable basis for our opinion on compliance for each major federal program. However, our audit does not provide a legal determination of the City's compliance.

Opinion on Each Major Federal Program

In our opinion, the City complied, in all material respects, with the types of compliance requirements referred to above that could have a direct and material effect on each of its major federal programs for the year ended June 30, 2020.

Report on Internal Control over Compliance

Management of the City is responsible for establishing and maintaining effective internal control over compliance with the types of compliance requirements referred to above. In planning and performing our audit of compliance, we considered the City's internal control over compliance with the types of requirements that could have a direct and material effect on each major federal program to determine the auditing procedures that are appropriate in the circumstances for the purpose of expressing an opinion on compliance for each major federal program and to test and report on internal control over compliance in accordance with the Uniform Guidance, but not for the purpose of expressing an opinion on the effectiveness of internal control over compliance. Accordingly, we do not express an opinion on the effectiveness of the City's internal control over compliance.

A deficiency in internal control over compliance exists when the design or operation of a control over compliance does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct noncompliance with a type of compliance requirement of a federal program on a timely basis. *A material weakness in internal control over compliance* is a deficiency, or combination of deficiencies in internal control over compliance, such that there is a reasonable possibility that material noncompliance with a type of compliance requirement of a federal program will not be prevented, or detected and corrected on a timely basis. *A significant deficiency in internal control over compliance* is a deficiency, or a combination of deficiencies, in internal control over compliance with a type of compliance requirement of a federal program that is less severe than a material weakness in internal control over compliance, yet important enough to merit attention by those charged with governance.

Our consideration of internal control over compliance was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control over compliance that might be material weaknesses or significant deficiencies. We did not identify any deficiencies in internal control over compliance that we consider to be material weaknesses. However, material weaknesses may exist that were not identified.

The purpose of this report on internal control over compliance is solely to describe the scope of our testing of internal control over compliance and the results of that testing based on the requirements of the Uniform Guidance. Accordingly, this report is not suitable for any other purpose.

Report on Schedule of Expenditures of Federal Awards Required by the Uniform Guidance

We have audited the financial statements of the governmental activities, the business-type activities, each major fund, and the aggregate remaining fund information of the City as of and for the year ended June 30, 2020, and the related notes to the financial statements, which collectively comprise the City's basic financial statements. We issued our report thereon dated January 4, 2021 which contained unmodified opinions on those financial statements. Our audit was conducted for the purpose of forming opinions on the financial statements that collectively comprise the basic financial statements. The accompanying schedule of expenditures of federal awards is presented for purposes of additional analysis as required by the Uniform Guidance and is not a required part of the basic financial statements. Such information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the basic financial statements. The information has been subjected to the auditing procedures applied in the audit of the financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the schedule of expenditures of federal awards is fairly stated, in all material respects, in relation to the basic financial statements as a whole.

Rogers, Anderson, Malody & Scott, LLP.

San Bernardino, California
April 19, 2021

**Schedule of Expenditures of Federal Awards
Year Ended June 30, 2020**

Federal Grantor / Pass-through Grantor / Program or Cluster Title	Federal CFDA Number	Program Identification Number	Federal Expenditures	Amount provided to subrecipients
<u>U.S. Department of Housing and Urban Development</u>				
<i>Passed through Riverside County Economic Development Agency</i>				
CDBG- Entitlement Grants Cluster:				
Community Development Block Grant	14.218	5.BEA-44-20	\$ 205,230	\$ -
Total CFDA 14.218 and CDBG Entitlement Grants Cluster			<u>205,230</u>	<u>-</u>
Total U.S. Department of Housing and Urban Development			<u>205,230</u>	<u>-</u>
<u>U.S. Department of Justice</u>				
<i>Direct Award</i>				
Equitable Sharing Funds (Federal Asset Seizure)	16.922	5.BEA-40-19	200,000	-
Total CFDA 16.922			<u>200,000</u>	<u>-</u>
Total U.S. Department of Justice			<u>200,000</u>	<u>-</u>
<u>U.S. Department of Transportation</u>				
<i>Passed through State of California Department of Transportation</i>				
Highway Planning and Construction Cluster:				
Potrero Interchange Project	20.205	DEM 10L-5209(008)	3,417,739	-
Total CFDA 20.205 and Highway Planning and Construction Cluster			<u>3,417,739</u>	<u>-</u>
Total U.S. Department of Transportation			<u>3,417,739</u>	<u>-</u>
Total Expenditures of Federal Awards			<u>\$ 3,822,969</u>	<u>\$ -</u>

See accompanying notes to the schedule of expenditures of federal awards.

City of Beaumont**Notes to the Schedule of Expenditures of Federal Awards
Year Ended June 30, 2020**

Note 1: Summary of Significant Accounting Policies Applicable to the Schedule of Expenditures of Federal Awards*Scope of Presentation*

The accompanying Schedule of Expenditures of Federal Awards (Schedule) includes the federal activity of the City of Beaumont, California (City) under programs of the federal government for the year ended June 30, 2020. The information on this Schedule is prepared in accordance with the requirements of Title 2 U.S. Code of Federal Regulations Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance). Because the Schedule presents only a selected portion of the operations of the City, it is not intended to and does not present the financial position, changes in net position or cash flows, where applicable, of the City.

Basis of Accounting

The expenditures included in the accompanying schedule were reported on the modified accrual basis of accounting, which is defined in Note 1 to the City's basic financial statements. Such expenditures are recognized following the cost principles contained in the Uniform Guidance, wherein certain types of expenditures are not allowable or are limited as to reimbursement. Expenditures reported include any property or equipment acquisitions incurred under the federal programs.

Note 2: De Minimis Indirect Cost Rate

The City has elected not to use 10-percent de minimis indirect cost rate allowed under the Uniform Guidance, as there were no indirect costs charged to the City's grant programs.

City of Beaumont

Schedule of Findings and Questioned Costs Year Ended June 30, 2020

SECTION I: SUMMARY OF AUDITOR'S RESULTS

Financial Statements

Type of report the auditor issued on whether the financial statements audited were prepared in accordance with GAAP: Unmodified

Internal control over financial reporting:

Material weakness identified?	_____	Yes	<u> X </u>	No
Significant deficiencies identified?	<u> X </u>	Yes	_____	None Reported
Noncompliance material to financial statements noted?	_____	Yes	<u> X </u>	No

Federal Awards

Internal control over major programs:

Material weakness identified?	_____	Yes	<u> X </u>	No
Significant deficiencies identified?	_____	Yes	<u> X </u>	None Reported

Type of auditor's report issued on compliance for major federal programs: Unmodified

Any audit findings disclosed that are required to be reported in accordance with section 2 CFR 200.516(a)?	_____	Yes	<u> X </u>	No
--	-------	-----	--------------	----

Identification of major federal programs:

<u>CFDA Number</u>	<u>Name of Federal Programs or Cluster</u>
20.205	Highway Planning and Construction Cluster

Dollar threshold used to distinguish between type A and type B programs:	<u>\$750,000</u>
--	------------------

Auditee qualified as low-risk auditee?	_____	Yes	<u> X </u>	No
--	-------	-----	--------------	----

City of Beaumont

Schedule of Findings and Questioned Costs Year Ended June 30, 2020

Section II: Financial Statement Findings

Finding 2020-001 - Cash Disbursements Process – Segregation of Duties

Criteria

Adequate segregation of duties between vendors' approvals, addition of authorized vendors into the payable system, and maintenance of vendors' accounts and files is a very important factor because the responsibilities for purchasing, receiving, recording into the accounting system, and disbursement should be separated as much as possible to create the best system of controls.

Condition and Context

During our audit, we noted that the Senior Accountant approves vendor changes and also has access to change vendor information. Upon further review, we identified that several other employees in the finance department also have access to change vendor information.

Effect

The lack of segregation of duties related to vendor files maintenance and cash disbursements processes could result in erroneous, fictitious, and/or fraudulent vendor payments.

Recommendation

We recommend that the Finance Department segregates the responsibilities for approving vendors and adding/editing vendors information into the system and perform a regular risk assessments review to identify where segregation of duties issues need to be corrected.

Management Response to Finding

The City concurs with this finding and has initiated corrective action. Effective December 1, 2020, the budget specialist position, which is not part of the payable process, will complete the entry of new vendors and have access to modify vendor records. The senior accountant over accounts payable will complete the review and approval of new vendors but will not have access to add or modify vendor records in the accounting system.

Staff directly involved in payment transactions will no longer have access to add or modify vendor records.

Additionally, audit logs that identify any changes in vendor records, including identifying the individual that made the change will be reviewed monthly to identify the changes in vendors and to verify the staff member who made the change.

City of Beaumont

Schedule of Findings and Questioned Costs Year Ended June 30, 2020

Section II: Financial Statement Findings (continued)

Finding 2020-002 - Payroll Process – Segregation of Duties

Criteria

A strong payroll internal control system can generally be implemented to cover potential threats of error and misappropriation with a reasonable effort. Payroll controls should include the following:

- Comparison of actuals to budget information and the review of any unexpected variances;
- Close review and supervision of reports prepared for filing with federal and state taxing authorities; and
- Separation of the payroll functions of employment, timekeeping, payroll preparation, and record-keeping;
- Review of change reports for each payroll period by personnel outside the payroll function with verification of changes.

Condition and Context

During our audit, we noted that the Administrative Services Manager processes payroll and has access to change employees' data including pay rates.

Effect

The lack of segregation of duties between payroll processes and human resources related functions could result in fictitious employees, or unapproved personnel rate changes.

Recommendation

We recommend that the Finance Department segregates the payroll processing function from the employee data changes function and to perform regular risk assessments reviews to identify where segregation of duties issues need to be addressed in the payroll process.

Management Response to Finding

The control procedure used by the City to process any changes in employee pay requires approval by the Director of Administration. That change is only prompted by a conditional job offer, satisfactory performance evaluation or an MOU contract obligation. That change is documented on an employee payroll change notice. These forms are submitted as part of the bi-weekly payroll packet that is reviewed by a senior accountant in the Finance Department. An audit report feature within the Paychex system named Employee Change Report is also submitted as part of the bi-weekly payroll packet, and is used to ensure all changes have the appropriate documentation attached.

City of Beaumont

Schedule of Findings and Questioned Costs Year Ended June 30, 2020

Section II: Financial Statement Findings (continued)

Finding 2020-002 - Payroll Process – Segregation of Duties (continued)

Management Response to Finding (continued)

Effective October 20, 2020, the employee payroll change notice will be signed by the Director of Administration. In the absence of the Director of Administration, the Director of Finance will approve any changes. These approval forms will be submitted as part of the bi-weekly payroll packet that is reviewed by a senior accountant in the Finance Department prior to submittal. While the senior accountant initialed the employee payroll change form in the past, a signature line was added for ease of identification. The Administrative Services Manager has also begun to attach the back page of the employee evaluation, conditional job offer, MOU page or an email directing the pay rate change.

An audit feature is available within the Paychex system currently utilized by the City. The audit feature allows for a report of all pay changes processed within defined time periods. This audit report will be reviewed quarterly by the Finance Department to determine if all pay changes have the required approvals.

Finding 2020-003 - Payroll Process – Personnel Action Forms

Criteria

A strong payroll internal control system can generally be implemented to cover potential threats of error and misappropriation with a reasonable effort. Payroll controls should include the following:

- Comparison of actuals to budget information and the review of any unexpected variances;
- Close review and supervision of reports prepared for filing with federal and state taxing authorities; and
- Separation of the payroll functions of employment, timekeeping, payroll preparation, and record-keeping;
- Review of change reports for each payroll period by personnel outside the payroll function with verification of changes.

Condition and Context

During our audit, we noted that several personnel action forms were not approved by the employee or appropriate supervising personnel.

Effect

Changes to personnel records such as wages increases, promotions, status changes, etc., need to be documented in a Personnel Action Form with formal acknowledgment by the employee and a supervisory personnel as well. Failure to formally document the changes substantially increases the risk of unauthorized changes in payroll data such as pay rates, hours worked, etc., which significantly weakens internal control.

City of Beaumont

Schedule of Findings and Questioned Costs Year Ended June 30, 2020

Section II: Financial Statement Findings (continued)

Finding 2020-003 - Payroll Process – Personnel Action Forms (continued)

Recommendation

We recommend that the Finance Department have all personnel action forms signed by the affected employee and by a supervisory personnel as well; and to perform regular risk assessments reviews to identify where lacks of internal controls issues in the payroll process need to be addressed.

Management Response to Finding

Management concurs that employee payroll change forms have not been signed by employees and supervisors. Effective October 20, 2020, all employee change forms will be required to be signed by the employee and a supervisory position.

As noted in the finding above, these documents are only completed in conjunction with a conditional job offer, satisfactory performance evaluation or an MOU contract obligation. The copy of the form is routed to the employee for their record. The form is included as part of the bi-weekly payroll file and reviewed by a senior accountant in the Finance Department.

Management notes that mitigating controls have been in existence, in that while employee payroll change forms have not been signed by employees and supervisors, employee pay modifications generally occur at an anniversary date and an evaluation that is signed by the employee and supervisor usually precedes any modification in pay. In those instances where an evaluation is not completed, the personnel policies of the City provide that an employee is entitled to a merit increase. As a result, increases in pay are driven by policies and procedures of the City and can be tied to the employee's anniversary date.

Finding 2020-004 - Segregation of Duties for Business License Process

Condition:

During our audit, lack of segregation of duties was noted in the City's Business Licenses process. The permit technician, who accepts payments for business licenses, has the ability to issue and distribute business licenses. There is no independent reconciliation of the business licenses issued from the HdL system with the amounts collected and posted in the Incode cash receipts system.

This finding was previously reported in 2019 as finding 2019-001 and in 2018 as finding 2018-005 - Segregation of Duties for Business Licenses Process.

Criteria:

The same individual should not have access to the payments from customers and the ability to issue business licenses unless an appropriate mitigating control has been implemented.

City of Beaumont

Schedule of Findings and Questioned Costs Year Ended June 30, 2020

Section II: Financial Statement Findings (continued)

Finding 2020-004 - Segregation of Duties for Business License Process (continued)

Cause:

The City does not perform an independent reconciliation for business licenses between the HdL system and the Incode cash receipts system due to system reporting limitations within Incode that were not evident prior to purchasing the system.

Effect:

Business licenses could be issued without a corresponding cash receipt being recorded in the City's general ledger and ultimately deposited into the City's bank account.

Recommendation:

We recommend the City implement a procedure to generate reports from the HdL business license program, periodically (i.e. daily, weekly, monthly), and have someone independent of the business license issuance and collection functions review and reconcile the amounts from these reports to the revenues posted in the City's general ledger. In addition, the permit and fees process should be integrated into the accounting software to limit the number of manual entries posted to the general ledger system.

Management's Response:

Reports of transactional activity will be generated from the HdL business license system that details business license collection activity. An Accounting Technician in the Finance Division will compare these reports to the deposits submitted to the Finance Department and entered into the City's general ledger. This reconciliation will be completed weekly. Any discrepancies will be brought to the attention of the Administrative Services Manager for resolution. Effective February 1, 2021, the Finance Department will complete a reconciliation of funds collected from business license activity to the license activity in the HDL system.

Finding 2020-005 - Overhead Cost Allocation

Condition:

The City allocates certain General Fund costs (administration, maintenance, etc.) to the Sewer Enterprise, Gas Tax, Transit Enterprise, and the Community Facilities District (CPD) Fund. The amounts are based on calculations included in schedules maintained by the Finance Department. Currently, the City is not allocating and recovering any of its indirect costs to federal (or state) grants. While the City completed a cost allocation study in April 2016 and has implemented the cost allocation of administrative costs to the various funds within the City, the City has not had a formal Cost Allocation Plan performed for charging of its costs to federally funded projects.

This finding was previously reported in 2019 as finding 2019-002 and in 2018 as finding 2018-007 – Overhead Cost Allocation.

Criteria:

Cost allocation plan methodologies should be thoroughly documented for transparency purposes, and updates to the plans should be done periodically in accordance with best practices.

City of Beaumont**Schedule of Findings and Questioned Costs
Year Ended June 30, 2020**

Section II: Financial Statement Findings (continued)**Finding 2020-005 - Overhead Cost Allocation (continued)****Cause:**

The City does not have a formal cost allocation plan to allocate internal costs, and the plan developed internally is not sufficient to claim indirect costs against federal (and state) grant programs.

Effect:

The City could potentially be utilizing allocation methods which result in either less administrative costs or excessive administrative costs being allocated than would be allowable if detailed cost allocation studies were performed on a periodic basis, and in accordance with federal grant requirements. Costs that could be reimbursable from other than local sources may be able to be claimed if adequately supported. For federal awards, the City may elect to use the 10 percent of Modified Total Direct Cost (MTDC) de Minimis indirect rate to recover indirect costs as part of the City's federal grant budgets. If the City elects to use the 10 percent de Minimis rate, the Uniform Guidance requires that the City use Modified Total Direct Costs as the cost base. MTDC means all direct salaries and wages, applicable fringe benefits, materials and supplies, services, travel, and up to the first \$25,000 of each sub award (regardless of the period of performance of the sub awards under the award).

Recommendation:

We recommend the City perform a full cost allocation study of administrative costs to ensure the detailed methodology for the allocation of administrative costs is reasonable and appropriate, based on the current circumstances, and that the methodology is clearly defined and documented. A plan should be prepared in accordance with the Uniform Guidance in the event the City wishes to allocate and claim the indirect costs against federal (and state) grant programs. Due to the complexity involved in developing a well-supported and reasonable indirect cost plan, the City should evaluate the cost of outsourcing this study as opposed to the use of internal staff time.

Management's Response:

While the City completed a cost allocation study in April 2016 and has implemented the cost allocation of administrative costs to the various funds within the City, further work is necessary to fully comply with this recommendation. The City has not yet completed the cost allocation for indirect costs to federal and state grant programs. Management intends to re-evaluate its cost allocation strategy and hire an external professional to assist the City in completing the cost allocation process. There has been no progress on this finding since the last audit.

Section III: Federal Awards Findings and Questioned Costs

No current year findings and questioned cost noted.

**Summary Schedule of Prior Audit Findings
Year Ended June 30, 2020**

Status of Prior Year Findings:

Financial Statement Findings

Finding 2019-001 - Segregation of Duties for Business Licenses Process

Status:

Finding has not been corrected. Reported as Finding 2020-004 for the current year.

Finding 2019-002 - Overhead Cost Allocation

Status:

Finding has not been corrected. Reported as Finding 2020-005 for the current year.

Finding 2019-003 - Unauthorized Wire Transfers

Status:

Corrected.

Federal Awards Findings and Questioned Costs

No prior year findings.



Staff Report

TO: City Council
FROM: Thaxton Van Belle, Chief Plant Operator
DATE: May 4, 2021
SUBJECT: 2020 Annual Maximum Benefit Monitoring Program Report

Background and Analysis:

In January 2004, the Santa Ana Regional Water Quality Control Board amended the Basin Plan (Resolution No. R8-2004-0001) which updated the groundwater basin boundaries and water quality objectives for total dissolved solids and nitrogen.

Alternative Maximum Benefit objectives were specified in some groundwater basins and, in return, a series of commitments of salt removals and monitoring programs were established to ensure that the beneficial uses of the ground water basins would continue to be protected.

With the completion of the Reverse Osmosis system at the City of Beaumont's wastewater treatment plant, the City is on the path of compliance with the basin's maximum benefit objectives.

To satisfy the requirements of the water quality control plan for the Santa Ana Basin, the City of Beaumont is required to compile and submit an annual maximum benefit monitoring program report. Attached is a copy of that report.

Fiscal Impact:

Basin monitoring costs were included in the adopted Fiscal Year 2021 budget. The City estimates the cost to prepare this report was approximately \$500.

Recommended Action:

Receive and file the 2020 Annual Maximum Benefit Monitoring Program Report as submitted to the Santa Ana Regional Water Quality Control Board.

Attachments:

- A. 2020 Annual Maximum Benefits Monitoring Program Report – BMZ, STMZ and YMZ.pdf
- B. 2020 Annual Maximum Benefits Monitoring Program Report – BMZ, STMZ and YMZ - Figures.pdf
- C. 2020 Annual Maximum Benefits Monitoring Program Report – BMZ, STMZ and YMZ – Tables.pdf
- D. 2020 Annual Maximum Benefits Monitoring Program Report – BMZ, STMZ and YMZ - Appendices A-I.pdf
- E. 2020 Annual Maximum Benefits Monitoring Program Report – BMZ, STMZ and YMZ - Appendices J-S.pdf

**Maximum Benefit Monitoring Program
2020 Annual Report
for the
Beaumont, San Timoteo and Yucaipa Groundwater
Management Zones**

Prepared for:

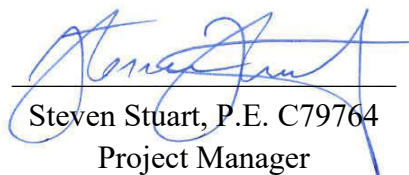
Yucaipa Valley Water District

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Prepared by:

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Contact: Steven Stuart, P.E.


Steven Stuart, P.E. C79764
Project Manager



APRIL 9, 2021

2020 Annual Maximum Benefit Monitoring Program Report for the Beaumont, San Timoteo and Yucaipa Management Zones

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2020 Annual Maximum Benefit Monitoring Program Report for the Beaumont, San Timoteo and Yucaipa Management Zones

1 INTRODUCTION

This maximum benefit monitoring program annual report (annual report) presents the combined monitoring efforts and maximum-benefit demonstration of all the stakeholder agencies in the Yucaipa, San Timoteo, and Beaumont groundwater management zones (GMZs) (Figure 1). This annual report was prepared pursuant to the maximum benefit commitments specified in the 2014 amendment (Resolution No. R8-2014-0005) to the Water Quality Control Plan for the Santa Ana River Basin (Basin Plan) (California Regional Water Quality Control Board Santa Ana Region [Regional Board], 2014). The responsible stakeholder agency in the Yucaipa GMZ maximum benefit program is the Yucaipa Valley Water District (YVWD). The responsible stakeholder agencies in the San Timoteo GMZ maximum benefit program are the City of Beaumont and YVWD. The responsible stakeholder agencies in the Beaumont GMZ maximum benefit program are the Beaumont-Cherry Valley Water District (BCVWD), the Cities of Banning and Beaumont, the San Gorgonio Pass Water Agency (Pass Agency), and YVWD.

The primary objective of the maximum benefit groundwater monitoring program is to collect the data needed for the triennial re-computation of ambient water quality in the Santa Ana River Basin. The most recent recalculation was completed in 2020 for water quality data collected from 1999 to 2018 (WSC, 2020). The next recalculation will occur in 2023 and cover the period from 2002 to 2021. This annual report presents data collected and work completed between January 1 and December 31, 2020, and is structured to reflect the reporting requirements defined in both the 2014 Basin Plan amendment and the Draft 2015 Maximum Benefit Monitoring Report (MBMR) 2015 Work Plan (Wildermuth, 2014), which was approved by the Regional Board on January 6, 2015.

Section 2 of this report provides background on the Basin Plan and the maximum benefit commitments specified in Tables 5-9a, 5-9b, and 5-9c of the 2014 Basin Plan Amendment for the Yucaipa, San Timoteo, and Beaumont GMZs. Section 3 presents the summary of compliance with each of the maximum benefit commitments listed in Tables 5-9a, 5-9b, and 5-9c, of the 2014 Basin Plan Amendment. In Section 4, the surface and groundwater monitoring programs are assessed and, where necessary, changes are recommended.

2 BACKGROUND

In 1995 the Regional Board adopted the Basin Plan. The Basin Plan established water quality standards for both surface water and groundwater, and serves as the basis for the Regional Board regulatory programs.

In 2004, the Basin Plan was updated to include revised management plans for total dissolved solids (TDS) and nitrogen. The 2004 update was the result of the work of the Nitrogen/ TDS task force, which conducted watershed-wide studies of TDS and nitrate as nitrogen (nitrate-nitrogen)

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objectives between 1994 and 2004. The 2004 Basin Plan update included the creation of new groundwater management zones (GMZs) based on previously defined groundwater subbasin boundaries, revised water quality objectives for TDS and nitrate-nitrogen in groundwater, revised wasteload allocations for TDS and nitrogen, and revised beneficial uses and objectives for TDS and nitrogen in surface waters.

Additionally, the 2004 Basin Plan set “maximum benefit” objectives for TDS and nitrate-nitrogen in the Chino North, Cucamonga, San Jacinto Upper Pressure, Yucaipa, Beaumont and San Timoteo GMZs. These maximum benefit objectives are less stringent than anti-degradation objectives, which were based on historical water quality data, and only apply to regions in which the responsible parties have demonstrated appropriate protection of beneficial use and maintenance of water quality consistent with maximum benefit to the people of the State of California.

In 2014, the Regional Board adopted Resolution No. R8-2014-0005, an amendment to the Basin Plan that revised the maximum benefit commitments in the Yucaipa, San Timoteo and Beaumont GMZs and expanded the boundary of the Beaumont management zone farther east to match the hydrogeological boundary. The previous boundary was a jurisdictional boundary that corresponded to the boundary between the Santa Ana regional board and the Colorado River regional board. The modified maximum benefit commitments assure reliable water supplies to meet present and anticipated future demands. The maximum benefit commitments, which are generally similar in all three GMZs, are summarized below:

- Develop and implement a surface water monitoring program.
- Develop and implement a groundwater monitoring program.
- Determine ambient groundwater quality in the maximum benefit GMZs every three years.
- Completion of recycled water supply systems that serve recycled water for irrigation purposes.
- Compliance must be achieved by the end of the 10th year after initiation of recycled water use/recharge operations.
- Compliance will be measured by calculating the 10-year volume-weighted running average TDS and nitrate-nitrogen concentrations of recycled water. The 10-year running average concentration must be less than or equal to the maximum benefit objective for the underlying GMZ.

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- Recycled water recharge shall be limited to the amount that can be blended with other recharge sources to achieve a 10-year (120 month) rolling volume-weighted concentration that is less than or equal to the maximum benefit objectives for TDS and nitrate-nitrogen for the underlying GMZ.
- Completion of plans for and construction of wastewater desalters and brine disposal facilities.
- Development of anti-degradation salt mitigation plans to offset discharges in excess of the anti-degradation objectives for the GMZs in the event that the Regional Board finds that the maximum benefit commitments are not met by the participating party.

3 REGIONAL PRECIPITATION

Daily precipitation data were obtained from National Oceanic and Atmospheric Administration (NOAA) weather stations located in Redlands (Station #USC00047306), Yucaipa (Station #US1CASR0044), and Beaumont (Station #US1CARV0018), California. The Redlands station is located approximately 2 miles northwest of the intersection of San Timoteo Canyon Road and Alessandro Road in the San Timoteo GMZ (Figure 1). The station is at an elevation of 1,417 feet North American Vertical Datum of 1988 (NAVD88). The Yucaipa station is located approximately 0.5 mile northwest of the Wilson Creek spreading basins in the Yucaipa GMZ (Figure 1). The Yucaipa station is at an elevation of 2,776 feet NAVD88. The Beaumont station is located approximately 2 miles northwest of the intersection of interstate highway 10 and State Highway 60 in the Beaumont GMZ (Figure 1). The elevation of the Beaumont station is 2,532 feet NAVD88.

Historical precipitation data from the Redlands station were compiled as monthly total rainfall from January 1963 through December 2020, from April 2014 through December 2020 from the Yucaipa Station, and from March 2009 through December 2020 from the Beaumont station. The precipitation data were organized by water year (Appendix R). A water year extends from October 1 to September 30 of the following calendar year.

The mean annual precipitation between the three stations ranged from 12.62 inches at the Redlands station to 16.34 inches at the Yucaipa station. Annual precipitation in the last four water years ranged from 46% to 167% of the annual means. A review of the cumulative departure from the mean monthly (CDMM) precipitation at the Redlands station since the 1963–1964 water year shows a general declining trend (i.e., less-than-normal rainfall) since the major El Niño event in 1997-1998 water year (Figure 2). The CDMM for Beaumont and Yucaipa show the same declining trends as Redlands from 2011 to 2016 during the extended drought in that period. All stations indicate more-than-normal rainfall wet seasons in 2017, 2019 and 2020.

2020 Annual Maximum Benefit Monitoring Program Report for the Beaumont, San Timoteo and Yucaipa Management Zones

4 MAXIMUM BENEFIT COMMITMENTS

The following subsections present a summary of compliance with the maximum benefit commitments defined in the 2014 Basin Plan Amendment for the Yucaipa, San Timoteo, and Beaumont GMZs. They also address the protocols defined in the Draft 2015 Maximum Benefit Monitoring Report (MBMR) Work Plan (Wildermuth, 2014) for collecting groundwater and surface water data in the field, compiling the data and fulfilling the reporting requirements for the annual monitoring report.

4.1 Yucaipa Groundwater Management Zone

There are seven maximum benefit commitments for the Yucaipa GMZ, as defined in the 2014 Basin Plan Amendment. The YVWD is the sole responsible party for the Yucaipa GMZ. The data collected and work completed for each of the seven commitments is discussed below.

4.1.1 Surface Water Monitoring Program

Stream surface water monitoring is only required in areas potentially impacted by recycled water discharges per the 2015 MBMR Work Plan (Wildermuth, 2014). No recycled water was discharged to Oak Glen Creek, the Oak Glen Spreading Basins, Wilson Creek, and the Wilson Creek Spreading Basins in the Yucaipa GMZ in 2020. Therefore, stream surface water monitoring was not conducted in this management zone in 2020.

4.1.2 Groundwater Monitoring Program

The groundwater monitoring program in the Yucaipa GMZ comprises both water level monitoring and water quality monitoring. Ninety-three (93) wells in the Yucaipa GMZ were identified in the 2015 Work Plan to be monitored for groundwater levels and/or water quality (Table 1). Of these wells, 32 were monitored by YVWD and the remainder were monitored independently by their respective owners.

Per the MBMR Work Plan, water level data is to be collected at a “minimum frequency of twice per year, corresponding with spring (April/May) and fall (October/November) time periods.” Additionally, water level measurements should represent “static and stable groundwater level conditions.” Water level data that met these monitoring requirements were collected from 84 of 91, or 92%, of the wells designated for water level data collection in 2020 (Table 1). The locations of wells identified for water level data collection are shown in Figure 3. Historical water level data including 2020 data are presented in hydrographs for each well in Appendix A.

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Per the MBMR Work Plan, and to ensure that the wells identified for water quality monitoring will continuously qualify for the ambient water quality analysis, water quality samples shall be collected from each well at a minimum frequency of once every three years. Water quality data that met this requirement were collected from 52 of 72, or 72%, of the wells designated for water quality data collection in 2020 (Table 1). The locations of wells identified for water quality data collection are shown in Figure 4. Water quality samples were collected and analyzed for concentrations of TDS, nitrate-nitrogen, and other constituents per the MBMR Work Plan. If a well was not sampled for water quality, the reason is provided in the comment line of Table 1 and discussed further in Section 5. Historical water quality data including 2020 data are presented in hydrographs for each well in Appendix B.

4.1.3 YVWD Wastewater and/or Groundwater Desalter(s) and Brine Disposal Facilities

YVWD installed a reverse osmosis (RO) treatment system to the Wochholz Regional Water Reclamation Facility (WRWRF) in 2013, but it was not used until the desalter and brine disposal facilities were completed and operational in 2016. RO treatment removes ions, salts and other minerals from wastewater and groundwater as the water is passed through a semi-permeable membrane. The RO concentrate, containing the constituents removed from the water, is disposed via the Yucaipa Valley Regional Brine Line, which was completed in 2012. The RO permeate is recombined with the WRWRF microfiltration effluent, which does not pass through the RO membranes, to dilute this effluent stream to meet the TDS maximum benefit objectives for the Yucaipa GMZ, Beaumont GMZ and San Timoteo GMZ.

Under the 2014 Basin Plan amendment, the desalter and brine disposal facilities were required to be operational by June 30, 2015. The District obtained the required permits to operate these facilities and continues to purchase additional brine line capacity as needed to provide for future expansion of the desalting facilities. These facilities were put into operation on July 25, 2016. Consequently, the mean monthly TDS concentration of the WRWRF effluent beginning August 2016 has ranged from 210 to 480 mg/L with a mean monthly TDS concentration of 285 mg/L (Appendix H).

4.1.4 Non-Potable Water Supply Distribution System

YVWD implemented a non-potable water supply system that serves recycled water, or a mix of recycled water, diluent water from WRWRF and un-treated imported water, for irrigation purposes and other direct non-potable reuse. YVWD started using recycled water for irrigation purposes in December 2015. YVWD anticipates using recycled water for groundwater recharge purposes in 2022.

2020 Annual Maximum Benefit Monitoring Program Report for the Beaumont, San Timoteo and Yucaipa Management Zones

Per the Basin Plan Amendment Resolution No. R8-2014-0005, YVWD is required to produce a non-potable supply with a 10-year volume-weighted running average TDS concentration of 370 milligrams per liter (mg/L) or less and a nitrate-nitrogen concentration of 6.7 mg/L or less (assuming a 25% nitrogen loss coefficient). The mean monthly TDS concentration in recycled water from WRWRF has averaged 285 mg/L since the implementation of the desalter and brine disposal facilities on July 25, 2016 (Appendix H). The nitrate-nitrogen concentration in recycled water from WRWRF has averaged 2.7 mg/L since the implementation of denitrification processes at the plant in 2009 (Appendix I).

4.1.5 Recycled Water Recharge

No recycled water was discharged to or used to recharge the groundwater basin in the Yucaipa Groundwater Management Zone in 2020.

4.1.6 Anti-Degradation Objectives Salt Mitigation Plan

YVWD prepared a Salinity and Nutrient Management Plan (SNMP) that provides a conceptual framework for mitigation projects in the event that the Regional Board finds that the maximum benefit is no longer being achieved in the Yucaipa, San Timoteo and Beaumont GMZs. This plan was submitted to the Regional Board on October 29, 2015. A copy of the SNMP is included in Appendix S.

4.1.7 Ambient Groundwater Quality Determination

As specified in the 2014 Basin Plan Amendment, the ambient groundwater quality must be recalculated every three years. The most recent recalculation was completed in 2020 for water quality data collected from 1999 to 2018 (WSC, 2020). The next recalculation will occur in 2023 and cover the period from 2002 to 2021. Therefore, water quality data collected from January 1, 2019 to December 31, 2021 will be needed to complete the 2002 to 2021 calculation of ambient water quality.

The ambient groundwater quality calculation includes water level and/or water quality data from 93 wells in the Yucaipa GMZ. In 2020, water quality samples were collected from 52 of the 72, or 72%, wells identified for water quality sampling in the MBMR Work Plan (Table 1). Of the 20 wells that did not meet the water quality monitoring requirements from 2018-2020, seventeen (17) wells belong to the United States Geological Survey, and two fall under the responsibility of YVWD. USGS confirms that the three shallowest wells set at the 6th Street and Ave E location were sampled and analyzed for TDS concentrations with NO₃-N analyzed at the shallowest well. The two deeper wells were not sampled between 2018 and 2020. The other USGS wells were last

2020 Annual Maximum Benefit Monitoring Program Report for the Beaumont, San Timoteo and Yucaipa Management Zones

sampled between 2006 and 2015. No other water quality studies are planned at this time. The last water quality sampling for the two YVWD wells occurred between 2014 and 2016.

The maximum concentrations of TDS in groundwater from 2018 to 2020 are shown in Figure 5. The maximum concentrations of nitrate-nitrogen are shown in Figure 6.

4.2 San Timoteo Groundwater Management Zone

There are nine maximum benefit commitments for the San Timoteo GMZ, as defined in the 2014 Basin Plan Amendment. YVWD shares responsibility for the San Timoteo GMZ with the City of Beaumont (Beaumont). YVWD is responsible for monitoring in the San Timoteo GMZ. The data collected and work completed for each of the nine commitments is discussed below.

4.2.1 Surface Water Monitoring Program

The potential sources of surface water in the San Timoteo GMZ are recycled water from the WRWRF and Beaumont, and storm water runoff to San Timoteo Creek. Because recycled water is discharged to San Timoteo Creek in the San Timoteo GMZ, stream surface water monitoring is required for this management zone.

In order to help demonstrate appropriate protection of beneficial use and maintenance of water quality consistent with maximum benefit to the people of the State of California:

- Surface water discharge measurements and water quality grab samples were collected biweekly at Sites YVWD-A, YVWD-B/B2 and YVWD-Z (Figure 7).
- Water quality grab samples were collected from the vicinity of sites YVWD-E and YVWD-Z (Figure 7) following six storm events in 2020, in addition to the biweekly sampling events. The six storm events (with total rainfall including day of sample collection and up to 5 days prior at the Redlands NOAA climate station) and were:
 - February 24, 2020 (0.29 inches of rainfall from February 22 to 23)
 - March 16, 2020 (3.09 inches of rainfall from March 10 to 15)
 - March 25, 2020 (0.58 inches of rainfall from March 23 to 24)
 - April 9, 2020 (3.50 inches of rainfall from April 6 to 9)
 - November 9, 2020 (0.69 inches of rainfall from November 7 to 9)
 - December 30, 2020 (1.35 inches of rainfall from December 28 to 30)

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- Temperature, pH, electrical conductivity, and dissolved oxygen were measured in the field at all surface water sites, and grab samples were analyzed at an analytical laboratory for the parameters listed in the 2015 MBMR Work Plan.

Stream flow was manually measured at sites YVWD-A, YVWD-B2, and YVWD-Z. Water velocity was measured with a USGS pygmy current meter and a USGS top setting wading rod. The cross-sectional area of the stream was determined by measuring stream depths with a measurement stick and stream widths with measurement tape. The Current-Meter Method was used to calculate flow. This method is referred to in USGS Techniques of Water Resources Investigations, Book 3, Chapter A8¹.

Hydrographs showing measured stream flow compared to the cumulative departure from the mean monthly (CDMM) rainfall measured at the NOAA Redlands station are in Figures 8, 9, and 10, respectively, for sites YVWD-A, YVWD-B2, and YVWD-Z. Historical stream flow data from site YVWD-C, which was approximately 3,200 feet upstream from YVWD-Z, is included to provide information on stream flow in this reach of San Timoteo Creek prior to the identification of YVWD-Z as a monitoring site in 2015. Site YVWD-C is no longer monitored. Additionally, due to issues accessing YVWD-B, this monitoring location was moved 1 mile downstream to the Alessandro Road bridge in July 2019 and was renamed YVWD-B2. YVWD-B is no longer monitored.

Temperature, pH, specific conductance, and dissolved oxygen were measured in the field prior to collecting a water quality sample. A YSI Pro Plus multiparameter probe was calibrated prior to submergence in the stream. After submerging the probe, field measurements were recorded until the field parameters were found to stabilize within acceptable limits. Grab samples were then collected in polyethylene containers and sent to Clinical Laboratory of San Bernardino, Inc. of Grand Terrace, California, a California certified analytical laboratory (ELAP #1088), for analysis. Water quality hydrographs showing concentrations of TDS and nitrate-nitrogen for sites YVWD-A, YVWD-B2 (including YVWD-B), YVWD-Z (including YVWD-C), and YVWD-E are shown in Figures 11 to 18.

The historical stream flow data recorded at sites YVWD-A, YVWD-B, and YVWD-Z (combined with YVWD-C) are included in Appendix C. Scanned copies of the calibration records and field forms completed during the surface water monitoring events in 2020 are included in Appendix D. Copies of the analytical laboratory reports with Chain-of-Custody forms are included in Appendix E.

¹ http://pubs.usgs.gov/twri/twri3a8/pdf/TWRI_3-A8.pdf

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4.2.2 Groundwater Monitoring Program

The groundwater monitoring program in the San Timoteo GMZ comprises both water level and water quality monitoring. Forty (40) wells in the San Timoteo GMZ were identified in the 2015 Work Plan to be monitored for groundwater levels and/or water quality (Table 2). There are 32 wells in the San Timoteo GMZ that are monitored for groundwater levels. Of these wells, 19 are monitored by the YVWD and Beaumont, and the remainder are monitored independently by their respective owners. Wells monitored by the YVWD and Beaumont were monitored under the field monitoring protocol set forth in the MBMR Work Plan (Wildermuth, 2014).

Water level data that met the groundwater monitoring requirements established in the MBMR Work Plan were collected from 20 of 32, or 62% of the wells designated for water level data collection in 2020. Wells where water level data did not meet the MBMR monitoring requirements were because no static water level measurements were collected in 2020, the well owner denied access to the well, the well no longer exists, or the well was artesian (and hence no static depth-to-water was measured). Historical water level data including 2020 data are presented in hydrographs for each well in Appendix F.

Per the MBMR Work Plan, and to ensure that the wells identified for water quality monitoring will continuously qualify for the ambient water quality analysis, water quality samples shall be collected from each well at a minimum frequency of once every three years. Water quality data that met this requirement were collected from 22 of 28, or 79%, of the wells designated for water quality data collection in 2020 (Table 2). Explanations for why six of the 28 wells weren't sampled are provided in Section 5 and in Table 2.

Groundwater quality samples were collected and analyzed for concentrations of TDS, nitrate-nitrogen, and other constituents per the MBMR Work Plan. If a well was not sampled for water quality, the reason is provided in the comment line of Table 2. Historical groundwater quality data including 2020 data are presented in hydrographs for each well in Appendix G.

4.2.3 YVWD Wastewater and/or Groundwater Desalter(s) and Brine Disposal Facilities

YVWD installed a RO treatment system to the WRWRF in 2013, but it was not used until the desalter and brine disposal facilities were completed and operational in 2016. RO treatment removes ions, salts and other minerals from wastewater and groundwater as the water is passed through a semi-permeable membrane. The RO concentrate, containing the constituents removed from the water, is disposed via the Yucaipa Valley Regional Brine Line. The RO permeate is recombined with the WRWRF microfiltration effluent, which does not pass through the RO

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membranes, to dilute this effluent stream to meet the TDS maximum benefit objectives for the Yucaipa GMZ, Beaumont GMZ and San Timoteo GMZ.

Under the 2014 Basin Plan amendment, the desalter and brine disposal facilities were required to be operational by June 30, 2015. The District obtained the required permits to operate these facilities and continues to purchase additional brine line capacity when available to provide for future expansion of the desalting facilities as needed. These facilities were put into operation on July 25, 2016. Consequently, the mean monthly TDS concentration of the WRWRF effluent beginning August 2016 has ranged from 210 to 480 mg/L with a mean monthly TDS concentration of 285 mg/L (Appendix H).

4.2.4 City of Beaumont Wastewater and/or Groundwater Desalter(s) and Brine Disposal Facilities

Under the 2014 Basin Plan Amendment, Beaumont was required to submit a detailed plan and schedule for construction of a desalter and brine disposal facility. Beaumont completed the design of a Wastewater Treatment Plant Renovation and Expansion Project and submitted the design to the Santa Ana Regional Water Quality Control Board on December 29, 2017. The project includes reverse osmosis (RO) and a brine line to connect to the Inland Empire Brine Line. Beaumont started construction of the new plant and brine line in the Fall of 2018, completing construction of the brine line and phase 1 of the new plant in 2020. Operation of the desalter commenced in November 2020.

4.2.5 YVWD, City of Beaumont Non-Potable Water Supply

Basin Plan Amendment Resolution No. R8-2014-0005 stated that “both YVWD and Beaumont are planning for the construction of a non-potable supply system to serve a mix of recycled water, un-treated imported water, reverse osmosis permeate (diluent) and/or storm water for landscape irrigation uses and direct non-potable reuse.” YVWD started supplying recycled water for landscape irrigation purposes in December 2015. YVWD anticipates using non-potable water for groundwater recharge purposes in 2022. Beaumont is currently working with BCVWD to distribute Title 22 recycled water as well as to conduct long-term planning for future distribution and growth in Title 22 production.

Per the Basin Plan Amendment R8-2014-0005, both YVWD and Beaumont are required to produce a non-potable supply with a 10-year volume-weighted running average TDS concentration of 400 mg/L or less and, for any non-irrigation reuse that has the potential to affect groundwater quality, the 10-year volume-weighted running average nitrate-nitrogen concentration shall comply with 6.7 mg/L (taking the 25% nitrogen loss coefficient into account to assure that the maximum benefit objective of 5 mg/L will be met).

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The mean monthly TDS concentration in recycled water from the WRWRF has averaged 285 mg/L since the implementation of the desalter and brine disposal facilities on July 25, 2016 (Appendix H). The 10-year volume-weighted running average of TDS from the WRWRF has steadily declined from 450 mg/L in 2015 to 382 mg/L in 2020 (Figure 19). The nitrate-nitrogen concentration in recycled water from WRWRF has averaged 2.8 mg/L since the implementation of denitrification processes at the plant in 2009 (Appendix I). The 10-year volume-weighted running average of nitrate (as nitrogen) from the WRWRF has steadily declined from 8.4 mg/L in 2011 to 2.6 mg/L in 2020 (Figure 20).

4.2.6 Recycled Water Recharge/Habitat Maintenance Discharge

The only recycled water discharge in the San Timoteo GMZ is from the WRWRF. This facility generates one live stream discharge to San Timoteo Creek (Figure 7). Recycled water is the only water source discharged to San Timoteo Creek. Daily live-stream discharge volumes and water quality sample results were collected in 2020 in compliance with the YVWD NPDES waste discharge permit.

Per Basin Plan Amendment R8-2014-0005, “the discharge of recycled water to San Timoteo Creek to maintain the riparian habitat and the demonstration of ‘maximum benefit’ are contingent on the recharge/discharge of recycled water at a 10-year annual average (running average) TDS concentration of 400 mg/L and nitrate-nitrogen concentration of 6.7 mg/L (taking the 25% nitrogen loss coefficient into account to assure that the ‘maximum benefit’ objective of 5 mg/L will be met).”

The 10-year volume-weighted running average concentration of TDS for recycled water discharged to San Timoteo Creek from 2011 through 2020 was 382 mg/L (Appendix H). The implementation of the desalter and brine line facilities in July 2016 has reduced the mean monthly TDS concentration of recycled water to 280 mg/L in 2020. A hydrograph showing historical TDS concentrations of recycled water discharged at the YVWD outfall to San Timoteo Creek, as well as the 10-year volume-weighted running average for TDS, is in Figure 19.

The 10-year running average concentration of nitrate-nitrogen for recycled water discharged to San Timoteo Creek from 2011 through 2020 was 2.6 mg/L (Appendix I). Appendix I also includes calculations for total inorganic nitrogen (TIN). The average annual TIN concentration since 2009 is 4.0 mg/L. YVWD implemented a denitrification process that removed a significant amount of nitrate from the treated effluent (i.e. recycled water) at the WRWRF in 2009. A hydrograph showing historical nitrate-nitrogen concentrations of recycled water discharged at the YVWD outfall to San Timoteo Creek, as well as the 10-year volume-weighted running average for nitrate-nitrogen, is in Figure 20.

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4.2.7 Improve Quality of Surface Water Discharges to the San Timoteo Groundwater Management Zone

YVWD implemented a denitrification process that removed a significant amount of nitrate from the treated effluent (i.e. recycled water) at the WRWRF in 2009. The nitrate-nitrogen concentration of recycled water discharged from the WRWRF to San Timoteo Creek has averaged 2.8 mg/L since 2009. YVWD implemented its desalter and brine line disposal facilities in July 2016. The TDS concentration of recycled water discharged to San Timoteo Creek has averaged 285 mg/L since July 2016. Additionally, YVWD has obtained permits to reduce the discharge of recycled water to San Timoteo Creek, which will “improve the quality of groundwater in the San Timoteo Management Zone” (YVWD, 2015; Appendix S).

4.2.8 Anti-Degradation Objectives Salt Mitigation Plan

YVWD prepared a Salinity and Nutrient Management Plan for the Beaumont Management Zone, San Timoteo Management Zone and the Yucaipa Management Zone and submitted it to the Regional Board on October 29, 2015 (Appendix S). The plan was developed by YVWD and includes steps or actions that YVWD will implement to mitigate excess salt loading above the anti-degradation water quality objectives. YVWD has invested in denitrification facilities to allow additional denitrification treatment as need in the future. In the case where the WRWRF effluent exceeds the maximum benefit objectives, YVWD will employ the desalting and denitrification facilities at the WRWRF and the Yucaipa brine line to discharge effluent at the anti-degradation objectives of annual flow weighted average TDS concentration of 300 mg/L and TIN concentration of 3.6 mg/L.

4.2.9 Ambient Groundwater Quality Determination

As specified in the 2014 Basin Plan Amendment, the ambient groundwater quality must be recalculated every three years. The most recent recalculation was completed in 2020 for water quality data collected from 1999 to 2018 (WSC, 2020). The next recalculation will occur in 2023 and cover the period from 2002 to 2021. Therefore, water quality data collected from January 1, 2019 to December 31, 2021 will be needed to complete the 2002 to 2021 calculation of ambient water quality.

The ambient groundwater quality calculation includes water level and/or water quality data collected from 40 wells in the San Timoteo GMZ. In 2020, water quality samples were collected from 22 of the 28, or 79% of the wells scheduled for water quality sampling in the MBMR Work Plan (Table 2). Of the six wells with no water quality data collected from 2018-2020, two of the wells, ST-01 and ST-07, were abandoned in 2005. Well ST-11 was abandoned in 2016. Well BH-20 is no longer accessible for water quality sampling. The last water quality sample collected at

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that well was in 2008. Well BH-21 was dry in July 2019; the last water quality sample collected at that well was in 2017. The private owner of the GL-6 well has denied access to the well.

The maximum concentrations of TDS in groundwater from 2018 to 2020 are shown in Figure 21. The maximum concentrations of nitrate-nitrogen are shown in Figure 22.

4.3 Beaumont Groundwater Management Zone

There are nine maximum benefit commitments for the Beaumont GMZ, as defined in the 2014 Basin Plan Amendment. YVWD shares responsibility for the Beaumont GMZ with Beaumont, the City of Banning (Banning), the San Geronio Pass Water Agency, and BCVWD. Beaumont is responsible for monitoring in the Beaumont GMZ. The data collected and work completed for each of the nine commitments is discussed below.

4.3.1 Surface Water Monitoring Program

The potential sources of surface water in the Beaumont GMZ are recycled water from Wastewater Treatment Plant No.1, operated by Beaumont, imported State Water Project water, storm water, and stream surface water. Because recycled water is discharged to Cooper's Creek at discharge point DP-001 in the Beaumont GMZ, stream surface water monitoring is required for this management zone.

In order to demonstrate appropriate protection of beneficial use and maintenance of water quality consistent with the maximum benefit to the people of the State of California in the Beaumont GMZ, Beaumont is required to undertake the following surface water monitoring tasks:

- Biweekly surface water flow measurements and water quality grab samples in Cooper's Creek just upstream (site CC-02) and just downstream (site CC-01) of discharge point DP-001, and as close to the boundary between the Beaumont and San Timoteo GMZs (site CC-03) (Figure 23).
 - Stream flow measurements were collected biweekly at sites CC-01 and CC-03. Hydrographs showing measured stream flow at sites CC-01 and CC-03 are compared to the cumulative departure from the mean monthly (CDMM) rainfall (Figures 24 and 25). Site CC-02 was first identified in the 2015 MBMR Work Plan, so there is no historical data prior to 2015, and no stream flow was observed at this location in 2020. Stream flow data for CC-01 and CC-03 are included in Appendix J.

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- Water quality samples were collected biweekly from sites CC-01 and CC-03. Water quality hydrographs showing surface water concentrations of TDS and nitrate-nitrogen for sites CC-01 and CC-03 are shown in Figures 26 through 29.
- Biweekly surface water flow measurements and water quality grab samples on San Timoteo Creek approximately six miles downstream of DP-001 (existing site STC-01 on Figure 23).
 - Stream flow measurements were collected biweekly at site STC-01. A hydrograph showing measured stream flow at site STC-01 was compared to the cumulative departure from the mean monthly rainfall (Figure 30). Stream flow data for STC-01 is included in Appendix J.
 - Water quality samples were collected biweekly from site STC-01. Water quality hydrographs showing surface water concentrations of TDS and nitrate-nitrogen for site STC-01 are shown in Figures 31 and 32, respectively.
- Biweekly surface water flow measurements and water quality grab samples on the unnamed tributary to Marshall Creek just upstream (site TMC-01) and just downstream (site TMC-02) of discharge point DP-007 (Figure 23).
 - No stream flow measurements or water quality samples were collected at sites TMC-01 and TMC-02 because no flow was observed at these locations in 2020. The City of Beaumont did not discharge recycled water at this location in 2020. Sites TMC-01 and TMC-02 were first identified in the 2015 MBMR Work Plan, so there is no historical data for either site prior to 2015.
- Biweekly recording of the location where surface flow terminates downstream of the discharge at DP-007. If surface flow does not terminate in the Beaumont GMZ, a discharge measurement and surface water quality sample will be collected as close to the boundary between the Beaumont and San Timoteo GMZs as possible (site STC-02) (Figure 23).
 - No data was collected in marking the location where surface flow terminates downstream of the discharge at DP-007 because Beaumont did not discharge recycled water at this location in 2020.
- Collect water quality grab samples on Noble Creek upstream of the confluence with Marshall Creek (site NC-02), San Timoteo Creek at the boundary between the Beaumont and San Timoteo GMZs (site STC-02), and Cooper's Creek at the boundary between the Beaumont and San Timoteo GMZs (site CC-03) for up to 6 storm events per year.

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- No water quality samples were collected at site NC-02 because no surface water was observed at this location in 2020.
- Water quality samples were collected at STC-02 following three storm events (with total rainfall including day of sample collection and up to 5 days prior at the Beaumont NOAA climate station) occurring on:
 - January 17, 2020 (0.14 inches of rainfall from January 16 to 17)
 - March 2, 2020 (0.13 inches of rainfall from March 1 to 2)
 - March 14, 2020 (4.28 inches of rainfall from March 10 to 14)
- The Historical measurements of stream flow measured at surface water monitoring stations CC-01, CC-03 and STC-01 are included in Appendix J. Scanned copies of the calibration records and field forms completed during the surface water monitoring events in 2019 are included in Appendix K. Copies of the analytical laboratory reports with Chain-of-Custody forms are also included in Appendix L.

4.3.2 Groundwater Monitoring Program

The groundwater monitoring program in the Beaumont GMZ comprises both water level monitoring and water quality monitoring. One hundred-sixteen (116) wells in the Beaumont GMZ were identified in the 2015 Work Plan to be monitored for groundwater levels and/or water quality (Table 3). Of these wells, 33 were monitored by the San Gorgonio Pass Water Agency, 32 were monitored by Beaumont, 24 were monitored by Beaumont Cherry Valley Water District, 6 monitored by Banning, and the remaining 21 wells were monitored independently by their respective owners.

Water level data that meets the groundwater monitoring requirements established in the MBMR Work Plan were collected from 60 of 103, or 58% of the wells designated for water level data collection in 2020 (Table 3). Reasons for why some wells did not meet the water level measurement requirement are discussed in Section 5 and included in Table 3. Historical water level data including 2020 data are presented in hydrographs for each well in Appendix M.

Per the MBMR Work Plan, and to ensure that the wells identified for water quality monitoring will continuously qualify for the ambient water quality analysis, water quality samples shall be collected from each well at a minimum frequency of once every three years. Water quality data that met this requirement were collected from 40 of 56, or 71%, of the wells designated for water quality data collection in 2020 (Table 3).

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Water quality samples were collected and analyzed for concentrations of TDS, nitrate-nitrogen, and other constituents per the MBMR Work Plan. If a well was not sampled for water quality, the reason is provided in Table 3 and discussed in Section 4.3.9. Historical water quality data is presented in Appendix N. Scanned copies of the calibration records, field forms, and analytical laboratory reports with chain-of-custody forms for groundwater sample collection are included in Appendix O.

4.3.3 YVWD Wastewater and/or Groundwater Desalter(s) and Brine Disposal Facilities

YVWD anticipated that demineralization of groundwater or recycled water would be necessary in the future to protect the Beaumont GMZ. Under the 2014 Basin Plan amendment, these facilities were required to be operational by June 30, 2015. The District has obtained the required permits to operate these facilities and continues to purchase additional brine line capacity as needed to provide for future expansion of the desalting facilities. These facilities were put into operation on July 25, 2016. Consequently, the mean monthly TDS concentration of the WRWRF effluent beginning August 2016 has ranged from 210 to 480 mg/L with a mean monthly TDS concentration of 285 mg/L (Appendix H).

4.3.4 City of Beaumont Wastewater and/or Groundwater Desalter(s) and Brine Disposal Facilities

In order to improve the quality of recycled water and other non-potable sources of water, the 2014 Basin Plan Amendment mandated that Beaumont construct and operate desalting and brine disposal facilities. Beaumont completed the design of a Wastewater Treatment Plant Renovation and Expansion Project and submitted the design to the Santa Ana Regional Water Quality Control Board on December 29, 2017. The project includes reverse osmosis (RO) and a brine line to connect to the Inland Empire Brine Line. Beaumont started construction of the new plant and brine line in the Fall of 2018, completing construction of the brine line and phase 1 of the new plant in 2020. Operation of the desalter commenced in November 2020.

4.3.5 City of Banning, Wastewater and/or Groundwater Salt Mitigation Plan

Banning does not currently utilize recycled water in the Beaumont GMZ. Banning submitted a Salt Management Plan in 2016 to the Regional Board. The Plan stated that Banning is “in the design phase for tertiary treatment upgrades which will provide Title 22 tertiary treated effluent for irrigation and for groundwater recharge,” (City of Banning, 2016). Banning will amend the Salt Management Plan and resubmit to the Regional Board six months prior to discharging tertiary treated effluent for irrigation and groundwater recharge purposes.

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4.3.6 Non-Potable Recycled Water Supply

Currently, there is no non-potable water supply distribution system in the Beaumont Groundwater Management Zone. Therefore, there is no data to include in this annual report. Beaumont's wastewater treatment plant produces tertiary treated and disinfected recycled water. A Title 22 Engineering Report must be developed and approved by the State Water Resources Control Board, Division of Drinking Water, prior to Beaumont distributing recycled water for surface irrigation or other similar uses. Beaumont is currently working with BCVWD to distribute Title 22 recycled water as well as to conduct long-term planning for future distribution and growth in Title 22 production.

Beaumont completed phase 1 of constructing an upgrade/expansion of the water reclamation facility. The project has expanded capacity from 4 million gallons per day (mgd) to 6 mgd and can now produce Title 22 compliant recycled water. The treatment process includes membrane bioreactor technology followed by partial reverse osmosis for the removal of excess salts in the recycled water and plant effluent. Disinfection will be provided by ultraviolet light disinfection. BCVWD is working on a Title 22 Engineering Report for the distribution of Title 22 water. Beaumont has begun working with the Regional Board regarding an updated NPDES permit for the new water reclamation facility. Once the new water reclamation facility is completed and final permits are received from California's Division of Drinking Water (DDW) and the Regional Board, Beaumont will be ready to deliver recycled water in order to meet Basin Plan Maximum Benefit requirements.

4.3.7 Recycled Water Recharge

Beaumont operates Wastewater Treatment Plant No. 1, from which there are two stream discharges: DP-001 to Cooper's Creek and DP-007 to an unnamed tributary to Marshall Creek (Figure 23). Daily live-stream discharge volumes and water quality sample results were collected in compliance with Beaumont's NPDES waste discharge permit. No recycled water was discharged at DP-007 in 2020.

Per Basin Plan Amendment R8-2014-0005, "the use and recharge of recycled water within the Beaumont Groundwater Management Zone are necessary to maximize the use of the water resources of the Beaumont area. The demonstration of 'maximum benefit' and the continued application of the 'maximum benefit' objectives are contingent on the recharge of recycled water...of a 10-year volume-weighted annual running average TDS concentration of 330 mg/L and nitrate-nitrogen concentration of 6.7 mg/L (taking the 25% nitrogen loss coefficient into account to assure that the 'maximum benefit' objective of 5 mg/L will be met)."

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The 10-year volume-weighted running average concentration of TDS for recycled water discharged to Cooper's Creek at discharge point DP-001 from 2011 to 2020 was 433 mg/L (Figure 33, Appendix P). The 10-year running average concentration of nitrate-nitrogen for recycled water discharged to Cooper's Creek (DP-001) from 2011 to 2020 was 3.63 mg/L (Figure 34, Appendix Q). No 10-year running average concentrations for TDS and nitrate-nitrogen were calculated for recycled water discharges to the unnamed tributary to Marshall Creek (DP-007) because no recycled water was discharged at this location in 2020.

Currently, there are no recycled water discharges to recharge basins in the Beaumont GMZ. Any future recycled water recharge projects in the Beaumont GMZ will also be subject to the Title 22 Groundwater Recharge Regulations and additional monitoring beyond the parameters shown in Table 3-2 of the 2015 Work Plan will be required.

4.3.8 Anti-Degradation Salt Mitigation Plan

YVWD submitted a Salinity and Nutrient Management Plan (SNMP) on October 29, 2015 that provides a conceptual framework for mitigation projects in the event that the Regional Board finds that the maximum benefit is no longer being achieved in the Yucaipa, San Timoteo and Beaumont GMZs (Appendix S).

4.3.9 Ambient Groundwater Quality Determination

As specified in the 2014 Basin Plan Amendment, the ambient groundwater quality must be recalculated every three years. The most recent recalculation was completed in 2020 for water quality data collected from 1999 to 2018 (WSC, 2020). The next recalculation will occur in 2023 and cover the period from 2002 to 2021. Therefore, water quality data collected from January 1, 2019 to December 31, 2021 will be needed to complete the 2002 to 2021 calculation of ambient water quality.

The ambient groundwater quality calculation includes water level and/or water quality data from 116 wells in the Beaumont GMZ. In 2020, water quality samples were collected from 40 of 56, or 71%, of the wells designated for water quality data collection (Table 3). Of the 16 wells with no water quality data from 2018-2020, six of the wells (Almo, M.C.; BCVWD-18, Oak Valley #1; Singleton Ranch 5; USGS 335834116582101; and USGS 335834116582102) were either dry, had inoperable pumps, were abandoned, or were offline for repairs. Data collectors were unable to contact the owner of the Jorge Magallon well and, thus, could not collect a water quality sample in 2020. Water quality data for the remaining nine wells was not obtained by the responsible parties.

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The maximum concentrations of TDS in groundwater from 2018 to 2020 are shown in Figure 35. The maximum concentrations of nitrate-nitrogen are shown in Figure 36.

5 ASSESSMENT OF MONITORING ACTIVITIES

5.1 Yucaipa Groundwater Management Zone

5.1.1 Groundwater Levels

The seven wells that did not meet the monitoring requirements for water level data collection in 2020 have not been monitored since December 2016 or earlier. YVWD noted “can’t sound” at wells SBVMWD Wilson B and YVWD-50. It is not anticipated that water level data will be collected at these wells or the other five wells in the future. Other existing wells in the basin have been identified as replacements for these wells in Section 5.4.1 if they are required to maintain or enhance the spatial distribution of data collection to appropriately characterize water quality in the Santa Ana River Basin as per the 2004 Basin Plan Amendment and the methodology used to calculate ambient water quality concentrations by the Nitrogen/TDS Task Force. If a replacement well is not required to maintain the spatial data distribution due to the presence of a program-monitored well located within a half-mile of the well in question, this well is recommended for removal from the program without replacement.

5.1.2 Groundwater Quality

Seventeen of the 20 wells that did not meet the monitoring requirements for water quality data collection in 2020 were owned by the USGS. These wells still exist, but there is no current program employing the services of the USGS to collect water quality samples. Only the three shallowest wells set at the 6th Street and Ave E well cluster were sampled for TDS concentrations between 2018 and 2020. These wells will remain on the MBMP schedule in the likelihood that these wells will be monitored or sampled in the future. The Sierra Nursery well has not been sampled since July 2013. This well will be investigated in Spring 2021 to confirm its existence and accessibility for sample collection. Wells YVWD-25 and YVWD-26 were last sampled in 2016 and 2014, respectively.

5.2 San Timoteo Groundwater Management Zone

5.2.1 Groundwater Levels

Twelve of the 32 wells scheduled for water level data collection in 2020 did not meet the MBMP requirements for the following reasons:

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- Depths-to-water were not measured at the Agri-Empire wells #427 and #428 because they were artesian.
- Access to wells GL-6 and Fisherman's Retreat 2 was denied by their respective owners.
- Wells OW-1T, OW-2P, OW-3T, ST-11 and Chester F. Hildebrand no longer exist.
- No water levels were measured in 2020 at wells BH-20, BH-21 nor BH-24. Well BH-21 was reported as dry in May and July 2019. Well BH-20 has had issues with well integrity since 2008.

Other existing wells in the basin have been identified as replacements for these wells in Section 5.4.2 if they are required to maintain or enhance the spatial distribution of data collection to appropriately characterize water quality in the Santa Ana River Basin as per the 2004 Basin Plan Amendment and the methodology used to calculate ambient water quality concentrations by the Nitrogen/TDS Task Force. If a replacement well is not required to maintain the spatial data distribution due to the presence of a program-monitored well located within a half-mile of the well in question, this well is recommended for removal from the program without replacement.

5.2.2 Groundwater Quality

Six of the 28 wells scheduled for water quality data collection did not meet the MBMP requirements for the following reasons:

- Wells ST-01 and ST-07 were abandoned in 2005. Well ST-11 was abandoned in 2016.
- Well BH-20 is only accessible to collect water level data. No water quality data has been collected from this well since 2008 because of concerns of the well's integrity.
- Well BH-21 was reported to be dry in May and July 2019. The last water quality data for this well is from 2017.
- Access has been denied by the owner of the GL-6 well.

The ST-01, ST-07, ST-11, BH-20, BH-21 and BH-24 wells are located at landfill sites where other wells included in this monitoring program exist. No replacement wells will be considered for the ST-01, ST-07, and ST-11 wells since other program wells will satisfy the spatial requirement for the ambient water quality recalculations. At the Badlands landfill, multiple (BD-04, BH-11, BH-22 and BL-3) wells are available as alternatives to replace wells BH-20, BH-21 and BH-24 for water level and water quality monitoring. A replacement well may be identified for the GL-6 well.

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5.3 Beaumont Groundwater Management Zone

5.3.1 Groundwater Levels

Forty-three (43) of the 103 wells scheduled for water level data collection in 2020 did not meet the MBMP requirements for the following reasons:

- Only dynamic (i.e., pumping) water levels were reported at two wells. The MBMP requirement is for the collection of two static water levels every year.
- Only one static water level was measured at six wells.
- Nine wells were dry in 2020.
- Thirteen wells were destroyed or were located on abandoned property.
- No water level data was collected at the other 13 wells because either no access was granted by the well owner, no contact was made with the individual well owner, or no depth-to-water measurements were reported in 2020.

5.3.2 Groundwater Quality

Sixteen (16) of the 56 wells scheduled for water quality data collection did not meet the MBMP requirements for the following reasons:

- The M.C. Almo well is located on property that has been abandoned. The well is not operational.
- The pump at the Singleton Ranch 5 well was inoperable.
- The Oak Valley #1 and USGS wells (335834116582101 and 335834116582102) were dry.
- Ten wells have not been sampled since at least 2016.
- The field crew was unable to contact the owner of the Jorge Magallon well.

5.4 Revised Groundwater Monitoring Schedule

Over the last three years, a number of wells included in the monitoring program have either been destroyed, abandoned, reside on property that has been abandoned, or the well owners have denied further access to the well. The following list identifies wells that YVWD recommends be removed from the monitoring program, the reasons why, and where possible, identifies potential

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replacement wells to provide the spatial coverage required for the three-year recalculation of ambient water quality for each GMZ.

5.4.1 Yucaipa Groundwater Management Zone

Of the 91 wells included in the water level monitoring program, YVWD recommends the removal of two of these wells:

- SBVMWD Wilson B: The last water level measured at this well was in December 2016. YVWD has noted, “can’t sound” at this well. Two wells, however, within a half-mile are currently monitored for groundwater levels (YVWD-44 and YVWD-53). The water level data collected at these wells satisfies the spatial data coverage required when conducting the triennial recalculation of ambient water quality in the Yucaipa GMZ.
- YVWD-50: The last water level measured at this well was in July 2015. YVWD has noted, “can’t sound,” at this well. However, there is one well that is currently monitored for groundwater levels in the program (YVWD-6), and another well that could be added to the program (Yucaipa 2nd St.), both located within a half-mile of the well. The water level data at these wells would satisfy the spatial data coverage required in the Yucaipa GMZ.

Additionally, contact with the owners of four wells in the Yucaipa GMZ shall be attempted in 2021. Should the well owners deny access to these wells, these wells will be removed from the monitoring program in 2021.

- GL-1 (Mentone): This well, located on E. Highland Avenue in the community of Mentone and assigned to the field tasks of YVWD, has not been monitored since 2016. Previously, the owner of this private agricultural well denied permission for water quality sampling. Contact with the owner will be re-attempted in 2021.
- GL-5: This well, located north of Live Oak Canyon Road and assigned to the field tasks of YVWD, has not been monitored since 2014. Previously, this well was listed as “capped well – no pump.” This well shall be located and contact with its owners attempted in 2021 to determine if the well is accessible to measure a depth-to-water.
- Covington: A water level at this well was last measured in 2012. Access to this well will be attempted in 2021.
- Sierra Nursery (GL-3): Water levels were regularly monitored at this well by YVWD until 2015. Contact with the well owners of the Sierra Nursery well will be attempted in 2021.

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Of the 72 wells included in the water quality monitoring program, YVWD does not recommend the removal of any wells at this time. As the 17 USGS wells and 2 YVWD wells with insufficient water quality data have been sampled for at least one water quality parameter recently, these wells will be reevaluated in the 2021 Annual Report. Contact will also be attempted with the owners of the Sierra Nursery Well in 2021.

5.4.2 San Timoteo Groundwater Management Zone

Of the 32 wells included in the water level monitoring program, YVWD recommends the removal of 5 of these wells for the following reasons:

- ST-11 – This well was abandoned in May 2016. No replacement well is proposed because water level data continues to be collected at other monitoring wells installed at the San Timoteo Sanitary Landfill on a quarterly basis. The water level data collected at these wells satisfies the spatial data coverage required when conducting the triennial recalculation of ambient water quality in the San Timoteo GMZ.
- YVWD OW-1T: This well no longer exists. The well was destroyed in January 2017. Well OW-1P is located near the former location of OW-1T and will function as the monitoring point in this area of the San Timoteo GMZ. No replacement well is planned for OW-1T.
- YVWD OW-2P: This well no longer exist. It was destroyed in March 2018. Well GMWM-1 is located near the former location of OW-2P and will function as the monitoring point in this area of the San Timoteo GMZ. No replacement well is planned for OW-2P.
- YVWD OW-3T: This well no longer exists. Well OW-3T was destroyed in March 2014. No replacement well is planned for OW-3T.
- BH-21: This well, located at the Badlands Landfill, was last monitored for water levels in July 2019. In May and July 2019, this well was reported to be dry. While wells BL-03, BH-11 and BH-23 are all located within a half-mile radius of the well, BH-11 would serve as the most suitable replacement well based on similar groundwater levels and screened intervals.

Additionally, contact with the owners and/or resumed monitoring of seven wells in the San Timoteo GMZ shall be attempted in 2021. Should the well owners deny access to these wells, or should it be found that groundwater levels may no longer be measured, these wells will be removed from the monitoring program in 2021.

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- Hildebrand, Chester – The last water level measured at this well was in September 2010. Water level sounding was attempted in November 2016 but the sounding tube appeared to have collapsed. This property has recently been redeveloped; contact with the new owners will be attempted in 2021 to determine the possibility of well access.
- Hudson, O. (GL-6) – The last water level measured by YVWD at this well, located on the south side of Live Oak Canyon Road, was in December 2014 when the owner of the well denied subsequent access to the well. Contact with the well owner will be re-attempted in 2021.
- BH-20: This well, located at the Badlands Landfill, was last monitored for water levels in October 2019. Although water quality data from 2020 and 2021 are listed for other wells at the site, no more recent groundwater level data has been reported. This well will continue to be monitored to determine if this lack of data is due merely to reporting delays. However, no water quality samples have been collected from this well since 2008 due to reported issues of well integrity.
- BH-24: This well, located at the Badlands Landfill, was last monitored for water levels in October 2019. Although water quality data from 2020 and 2021 are listed for this well, no more recent groundwater level data has been reported. This well will continue to be monitored to determine if this lack of data is due merely to reporting delays.
- Fisherman’s Retreat 2: Although the well owner of this well permitted access twice in 2019, no access was granted from 2010-2018, nor in 2020. Access will be re-attempted in 2021. The El Casco Lake Ranch #1 well, monitored as part of this program, is located approximately 0.7 miles down-gradient from this well. Additionally, a well that is not part of this program has been identified at the San Timoteo Canyon Historic Schoolhouse, located approximately 0.65 miles down-gradient from the well. However, there are no alternative wells that have been identified within a half-mile radius.
- Agri Empire: This well was previously sampled by the USGS for water quality and water levels but has not been monitored since 2009. It has since been labeled as “Artesian”. This well is supposedly located near the intersection of Palmer Avenue and Oak Valley Parkway. In 2021, this well will be located to confirm its status as artesian.
- Agri Empire #2: This well was previously sampled by the USGS for water quality and water levels but has not been monitored since 2008. It has since been labeled as “Artesian”. This well is supposedly located near the intersection of Palmer Avenue and Oak Valley Parkway. In 2021, this well will be located to confirm its status as artesian.

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Of the 28 wells included in the water quality monitoring program, five wells are proposed to be removed from the monitoring schedule:

- ST-01: This well was abandoned by at least 2005. No replacement well is proposed for this well because other monitoring wells at the San Timoteo Sanitary Landfill continue to be sampled for water quality. Data from the other ST monitoring wells will meet the spatial data requirement for the triennial recalculation of ambient water quality in the San Timoteo GMZ.
- ST-07: This well was abandoned by at least 2005. No replacement well is proposed for this well for the same reasons provided for ST-01.
- ST-11: This well was abandoned in May 2016. No replacement well is proposed for this well for the same reasons provided for ST-01.
- BH-20: No water quality samples have been collected from this well since 2008 due to reported issues of well integrity. Other wells located at the Badlands Landfill with water quality data reported in 2020 and 2021 include BD-04, BD-11, BD-22, BD-23, BD-25 and BL-03. While BH-23, BL-03 and BH-25 might serve as potential replacements based on spatial coverage (<0.5 miles from well BH-20), BH-22, located approximately 0.8 miles south of BH-20 has the most similar depth to water and screened interval.
- BH-21: This well was listed as dry in May and July 2019. While wells BL-03, BH-11 and BH-23 are all located within a half-mile radius of the well, BH-11 would serve as the most suitable replacement well based on similar groundwater levels and screened interval.

Additionally, contact with the owner of the Hudson, O (GL-6) well will be reattempted in 2021. Should access to this well be re-denied, a suitable replacement well, if any, will be proposed in the 2021 Annual Report.

5.4.3 Beaumont Groundwater Management Zone

Of the 103 wells included in the water level monitoring program, YVWD proposes that 27 wells be removed for the following reasons:

- Almo, M. C.: This well resides on property that has been abandoned. There is no access to this well. Within a half-mile radius of the well, however, there are 3 wells that are currently monitored for groundwater elevation (Joe Pistilli, Ruth Cunningham and Maureen Polack). Therefore, there is sufficient spatial data coverage to remove this well from the program.

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- Bonita Vista #1: This well was listed as dry from November 2016 to November 2017. In April 2019, it was indicated that this well was no longer being measured. As wells Bonita Vista MWD #3, BVM-2, and USGS 335903116580902 currently monitored as part of this program and all located within a half-mile radius of the well, there is sufficient spatial data coverage to remove this well from the program.
- Beckman, Walt: Water level data is no longer collected by SGPWA, which noted that the well was “discontinued” in 2017. As the Michelle Delph well is currently monitored as part of this program and is located less than half a mile from the well, there is sufficient spatial data coverage to remove this well from the program.
- Ban M2: The water level at this well is “no longer measured by the City of Banning.” This well resides in the same lot as M9, which is also included in the maximum benefits monitoring program. There is sufficient spatial coverage to meet the Beaumont GMZ requirements to remove this well from the program.
- Hewitt, Patricia: The private well owner has denied further access to the well. As this well is located on the same property as the Frank Hewitt well, there is sufficient spatial data coverage to remove this well from the program.
- Pardee Well (No. of Wilson): This well was destroyed in 2018. As Banning well C-4 is located less than a half-mile from the previous location of this well, there is sufficient spatial data coverage to remove this well from the program.
- Wells RCWMD MW-1 to MW-9: These wells were abandoned in April 2017. The Joe Pistilli and Ruth Cunningham wells are both located approximately 0.5 miles from this well group, therefore there is sufficient spatial data coverage to remove these wells from the program.
- Sunny-Cal Egg & Poultry Company wells 1 and 2: these wells reside on property that has been abandoned and are no longer accessible. Wells 37101 Cherry and BCVWD 29 which are monitored as part of this program are located less than a half-mile from these wells. Therefore the spatial data coverage requirement is met and the Sunny-Cal wells are proposed for removal from the program.
- NA_1221611: This well is located on abandoned property and is no longer accessible. Wells 37101 Cherry and BCVWD 29 which are monitored as part of this program are located less than a half-mile from this well. Therefore the spatial data coverage requirement is met and this well is proposed for removal from the program..

2020 Annual Maximum Benefit Monitoring Program Report for the Beaumont, San Timoteo and Yucaipa Management Zones

- Hallana Equities: This well appeared to run dry in early 2018. As there are no program wells currently being monitored within a half-mile of this well, attempts will be made in 2021 to locate a suitable replacement well.
- Hallana Equities No. 1: This well has been listed as “Dry” since November 2009. As there are no program wells currently being monitored within a half-mile of this well, attempts will be made in 2021 to locate a suitable replacement well.
- Don Kramer: This well, located at 35011 Mesa Grande Drive, was monitored regularly until July 2013. In 2017 and 2018, groundwater level measurements were attempted but the well appeared to be dry. Wells YVWD-34, SMWC-03, SMWC-04, #362 Paul Bryan, and Wilman Garnar are all currently monitored as part of this program and are located less than a half-mile from the well. Therefore, the spatial data coverage requirement is met and this well may be removed from the program.
- #106 Bo Un Kim (Gary Posey): This well, located at the end of Beckwith Avenue, was reported to be dry in November 2017. The Suzy Q Ranch Moreno 6 well and the Rancho Calimesa #3 well are both currently monitored as part of this program and are located less than a half-mile from the well. Therefore the spatial data coverage requirement is met and this well may be removed from the program.
- Sharondale Mesa 1: Water level at this well, located in the Sharondale Senior Community, was last reported in April 2015. The Suzy Q Ranch Moreno 6 well, the Rancho Calimesa #3 well, the Frank Hewitt well and YVWD well 48 are all currently monitored as part of this program and are located less than a half-mile from the well. Therefore, the spatial data coverage requirement is met and this well may be removed from the program.
- Sharondale Mesa 2: Water level at this well, located in the Sharondale Senior Community, was last reported in December 2014. The Suzy Q Ranch Moreno 6 well, the Rancho Calimesa #3 well, the Frank Hewitt well and YVWD well 48 are all currently monitored as part of this program and are located less than a half-mile from the well. Therefore, the spatial data coverage requirement is met and this well may be removed from the program.
- USGS 2101: This well has been listed as dry since May 2017. Well SGPWA TW-1 is located a half-mile from this well and is currently monitored as part of this program. Therefore, there is sufficient spatial data coverage to remove this well from the program.
- USGS 2102: This well has been listed as dry since May 2017. Well SGPWA TW-1 is located a half-mile from this well and is currently monitored as part of this program. Therefore, there is sufficient spatial data coverage to remove this well from the program.

2020 Annual Maximum Benefit Monitoring Program Report for the Beaumont, San Timoteo and Yucaipa Management Zones

- USGS 2504: This well has been listed as dry since August 2016. Well BVM-2 is located a half-mile from this well and is currently monitored as part of this program. Therefore, there is sufficient spatial data coverage to remove this well from the program.
- The location of the Jorge Magallon well has yet to be confirmed. Although previous Google Earth images appear to place this well along Selrocco Drive in Calimesa, the data used to create Figure 3 appear to locate this well on the property adjacent to the Randy Downing well. While the owners of the property have indicated their willingness to participate in the program, it is unclear whether this well can be sounded or sampled. Monitoring of this well will be attempted in 2021.

Of the 56 wells included in the water quality monitoring program, YVWD proposes to remove ten wells for the following reason:

- **Almo, M. C.:** This well resides on property that has been abandoned. There is no access to this well. Within a half-mile radius of the well, however, there are 2 wells that are currently monitored for groundwater quality (Joe Pistilli and George Witter). Therefore, there is sufficient spatial data coverage to remove this well from the program.
- **BCVWD-1:** This well was last monitored for water quality in 2012. Well BCVWD-22, located less than a half-mile from the well, is currently monitored for water quality under this program. Therefore, there is sufficient spatial data coverage to remove this well from the program.
- **BCVWD-3:** This well was last monitored for water quality in 2013. Well BCVWD-22, located approximately 0.55 miles from the well, is currently monitored for water quality under this program. As there is not sufficient spatial data coverage to remove this well from the program, a suitable replacement well will be investigated in 2021.
- **BCVWD-25:** This well was last monitored for water quality in 2013. Well BCVWD-22, located approximately 0.78 miles from the well, is currently monitored for water quality under this program. As there is not sufficient spatial data coverage to remove this well from the program, a suitable replacement well will be investigated in 2021.
- **BCVWD-26:** This well was last monitored for water quality in 2014. Well BCVWD-22, located approximately 0.72 miles from the well, is currently monitored for water quality under this program. As there is not sufficient spatial data coverage to remove this well from the program, a suitable replacement well will be investigated in 2021.

2020 Annual Maximum Benefit Monitoring Program Report for the Beaumont, San Timoteo and Yucaipa Management Zones

- CVMWC 1: This well was last monitored for water quality in 2013. Well BCVWD-04A, located approximately 0.90 miles from the well, is currently monitored for water quality under this program. As there is not sufficient spatial data coverage to remove this well from the program, a suitable replacement well will be investigated in 2021.
- Stefan Illy #2: This well was last monitored for water quality in 2013. CVMWC Well 1, located approximately 0.84 miles from the well, is currently monitored for water quality under this program. As there is not sufficient spatial data coverage to remove this well from the program, a suitable replacement well will be investigated in 2021
- Singleton Ranch 5: The turbine pump at this well is no longer operational and only groundwater elevation may be recorded. This well, however, is located less than a half-mile from two wells that are currently monitored for groundwater quality, Singleton Ranch 7 and the Oak Valley Office Well. Therefore, there is sufficient spatial data coverage to remove this well from the program.
- USGS 2101: This well has been listed as dry since May 2017. Well BCVWD-16 is located less than a half-mile from this well and is currently monitored as part of this program. Therefore, there is sufficient spatial data coverage to remove this well from the program.
- USGS 2102: This well has been listed as dry since May 2017. Well BCVWD-16 is located less than a half-mile from this well and is currently monitored as part of this program. Therefore, there is sufficient spatial data coverage to remove this well from the program.

Additionally, it is unclear whether the Randy Downing and Jorge Magallon wells may be located and if they are still operational for water quality sampling. The exact location of these two wells will be determined in 2021 and water quality sampling will be attempted.

2020 Annual Maximum Benefit Monitoring Program Report for the Beaumont, San Timoteo and Yucaipa Management Zones

6 REFERENCES

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- City of Banning (Banning), 2016. Salinity Management Plan for the Beaumont Management Zone. Prepared by the City of Banning Public Work Department. November 23.
- Water Systems Consulting, Inc. (WSC), 2020. Draft *Recomputation of Ambient Water Quality for the Period 1999 to 2018*. Prepared for Santa Ana Watershed Project Authority, Basin Monitoring Program Task Force. April 15.
- Wildermuth Environmental Inc., 2014. Maximum Benefit Monitoring Report, 2015 Work Plan. Prepared for: City of Beaumont, Yucaipa Valley Water District, San Gorgonio Pass Water Agency, Beaumont Cheery Valley Water District, and City of Banning. Original Submittal September 30. Updated on December 22.
- YVWD, 2015. Salinity and Nutrient Management Plan for the Beaumont Management Zone, San Timoteo Management Zone and the Yucaipa Manage Zone. Prepared by Yucaipa Valley Water District, Yucaipa, California. Submitted to California Regional Water Quality Control Board Santa Ana Region. October 29.

FIGURES

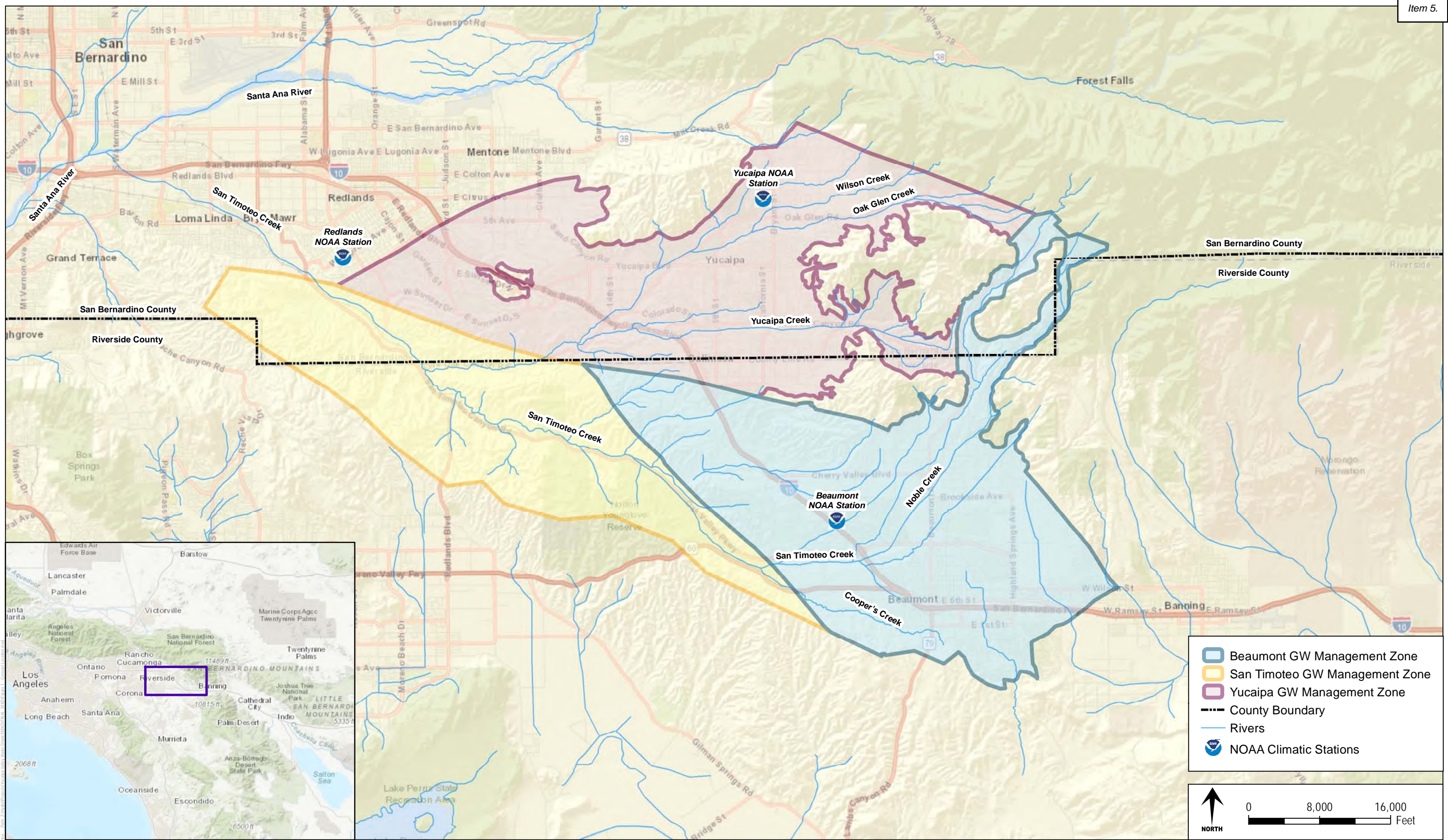
2020 Annual Maximum Benefits Monitoring Program Report

for the

**Beaumont, San Timoteo and Yucaipa Groundwater
Management Zones**

in the

Upper Santa Ana River Basin



- █ Beaumont GW Management Zone
- █ San Timoteo GW Management Zone
- █ Yucaipa GW Management Zone
- County Boundary
- Rivers
- NOAA Climatic Stations

NORTH ↑

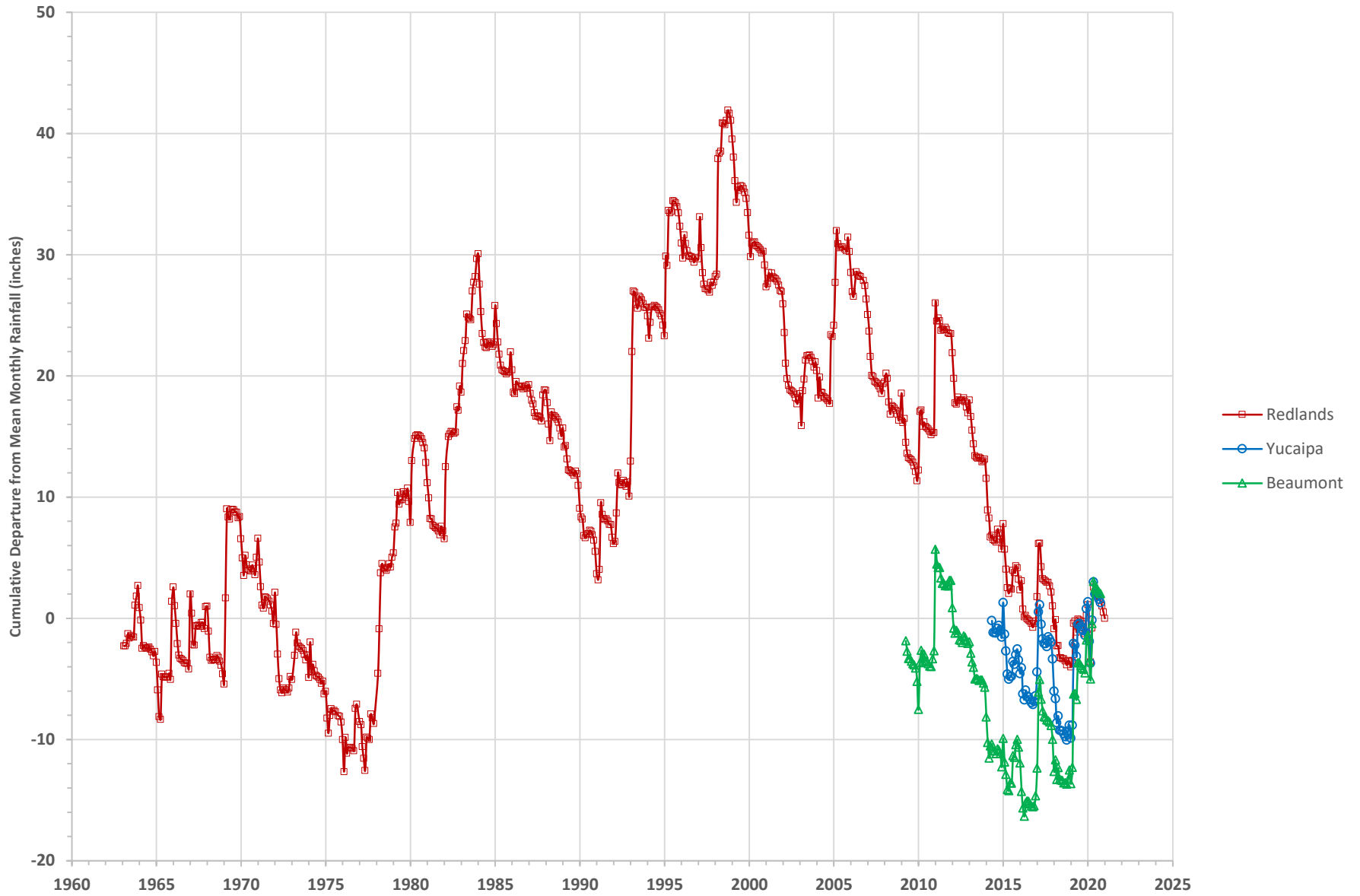
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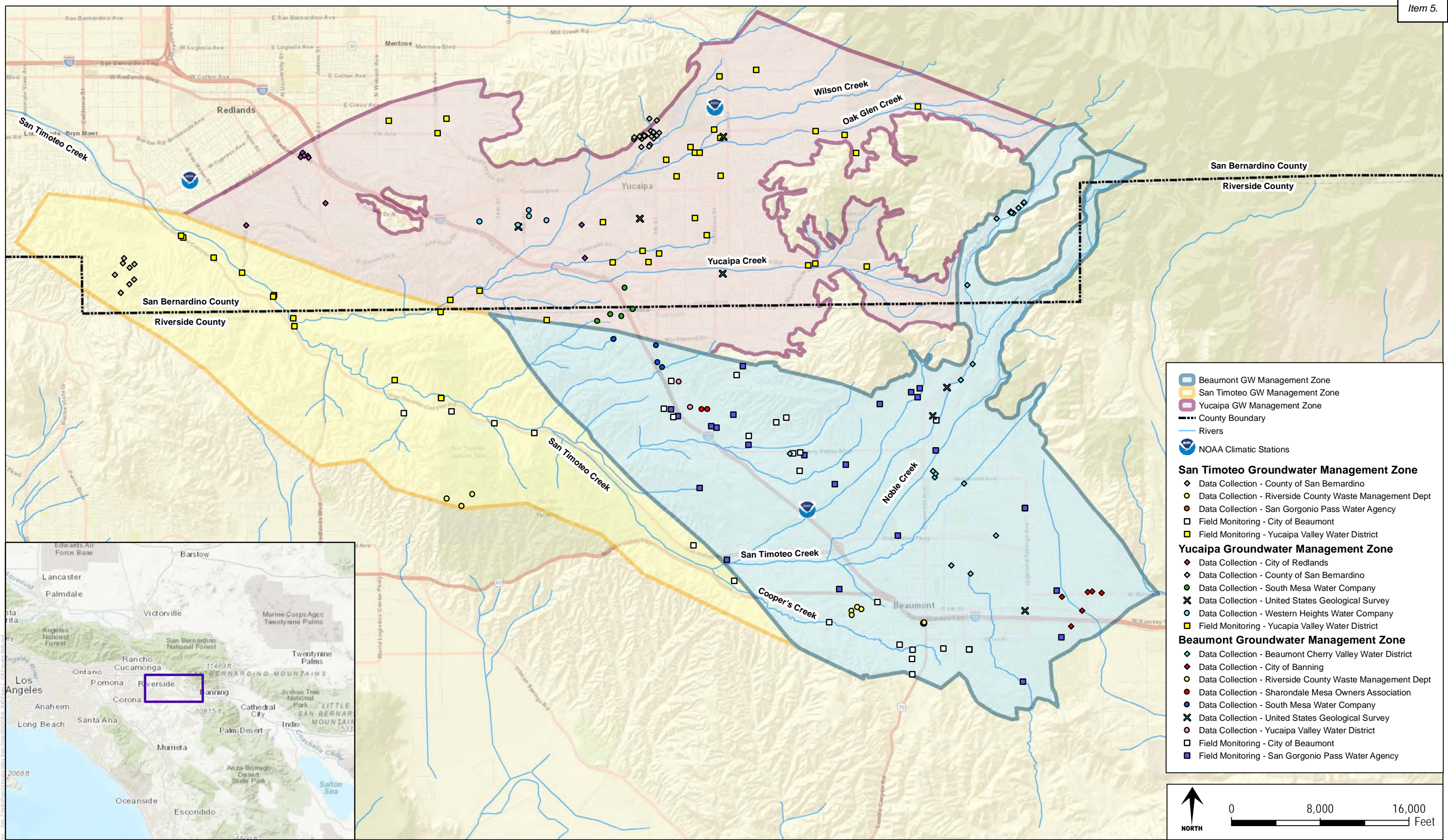
SOURCE: ESRI, Microsoft

FIGURE 1
Beaumont, San Timoteo and Yucaipa Management Zone Boundaries



Cumulative Departure from Mean Monthly Rainfall at the Redlands, Beaumont and Yucaipa NOAA Climatic Stations





■ Beaumont GW Management Zone
■ San Timoteo GW Management Zone
■ Yucaipa GW Management Zone
 County Boundary
— Rivers
● NOAA Climatic Stations

San Timoteo Groundwater Management Zone

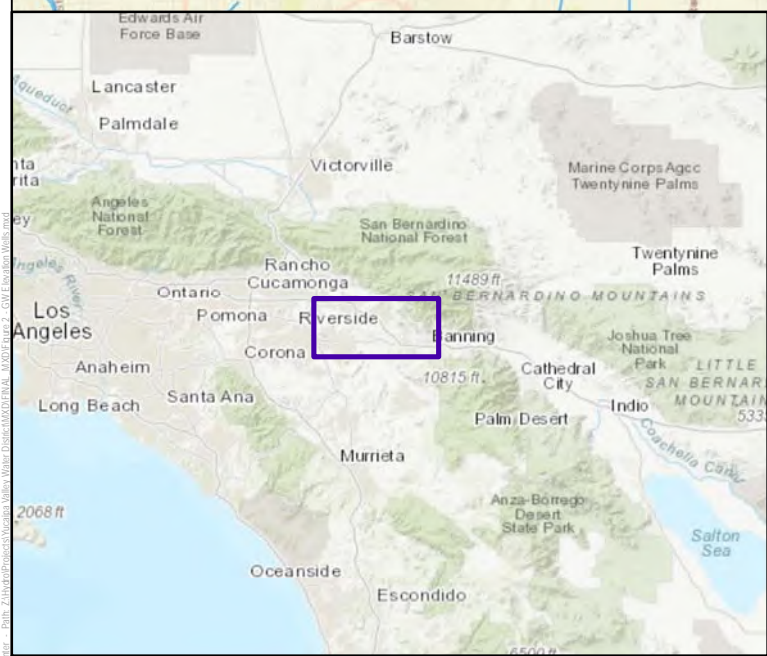
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- Data Collection - Riverside County Waste Management Dept
- Data Collection - San Gorgonio Pass Water Agency
- Field Monitoring - City of Beaumont
- Field Monitoring - Yucaipa Valley Water District

Yucaipa Groundwater Management Zone

- ◆ Data Collection - City of Redlands
- ◆ Data Collection - County of San Bernardino
- Data Collection - South Mesa Water Company
- ✕ Data Collection - United States Geological Survey
- Data Collection - Western Heights Water Company
- Field Monitoring - Yucaipa Valley Water District

Beaumont Groundwater Management Zone

- ◆ Data Collection - Beaumont Cherry Valley Water District
- ◆ Data Collection - City of Banning
- Data Collection - Riverside County Waste Management Dept
- Data Collection - Sharondale Mesa Owners Association
- Data Collection - South Mesa Water Company
- ✕ Data Collection - United States Geological Survey
- Data Collection - Yucaipa Valley Water District
- Field Monitoring - City of Beaumont
- Field Monitoring - San Gorgonio Pass Water Agency



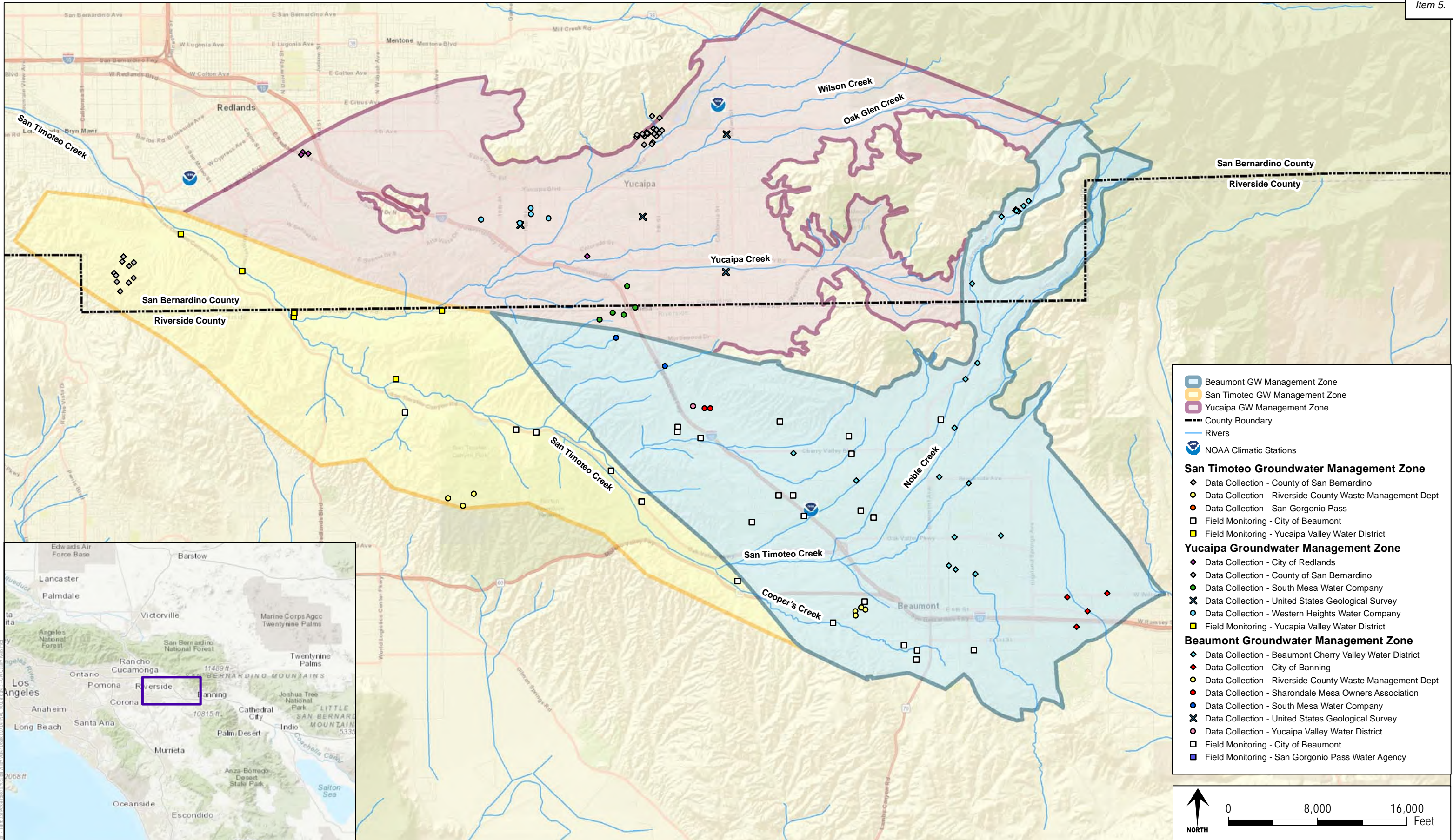
SOURCE: ESRI, Microsoft

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Maximum Benefit Monitoring Program - 2020 Annual Report

FIGURE 3
 Wells Monitored for Groundwater Levels in the Beaumont, San Timoteo and Yucaipa Groundwater Management Zones

April 2021 93



- Beaumont GW Management Zone
 - San Timoteo GW Management Zone
 - Yucaipa GW Management Zone
 - County Boundary
 - Rivers
 - NOAA Climatic Stations
- San Timoteo Groundwater Management Zone**
- ◆ Data Collection - County of San Bernardino
 - Data Collection - Riverside County Waste Management Dept
 - Data Collection - San Gorgonio Pass
 - Field Monitoring - City of Beaumont
 - Field Monitoring - Yucaipa Valley Water District
- Yucaipa Groundwater Management Zone**
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 - ◆ Data Collection - County of San Bernardino
 - Data Collection - South Mesa Water Company
 - ✕ Data Collection - United States Geological Survey
 - Data Collection - Western Heights Water Company
 - Field Monitoring - Yucaipa Valley Water District
- Beaumont Groundwater Management Zone**
- ◆ Data Collection - Beaumont Cherry Valley Water District
 - ◆ Data Collection - City of Banning
 - Data Collection - Riverside County Waste Management Dept
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 - Data Collection - South Mesa Water Company
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 - Data Collection - Yucaipa Valley Water District
 - Field Monitoring - City of Beaumont
 - Field Monitoring - San Gorgonio Pass Water Agency

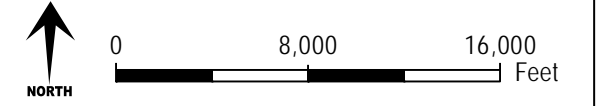


FIGURE 4
Wells Monitored for Groundwater Quality in the Beaumont, San Timoteo and Yucaipa Groundwater Management Zones

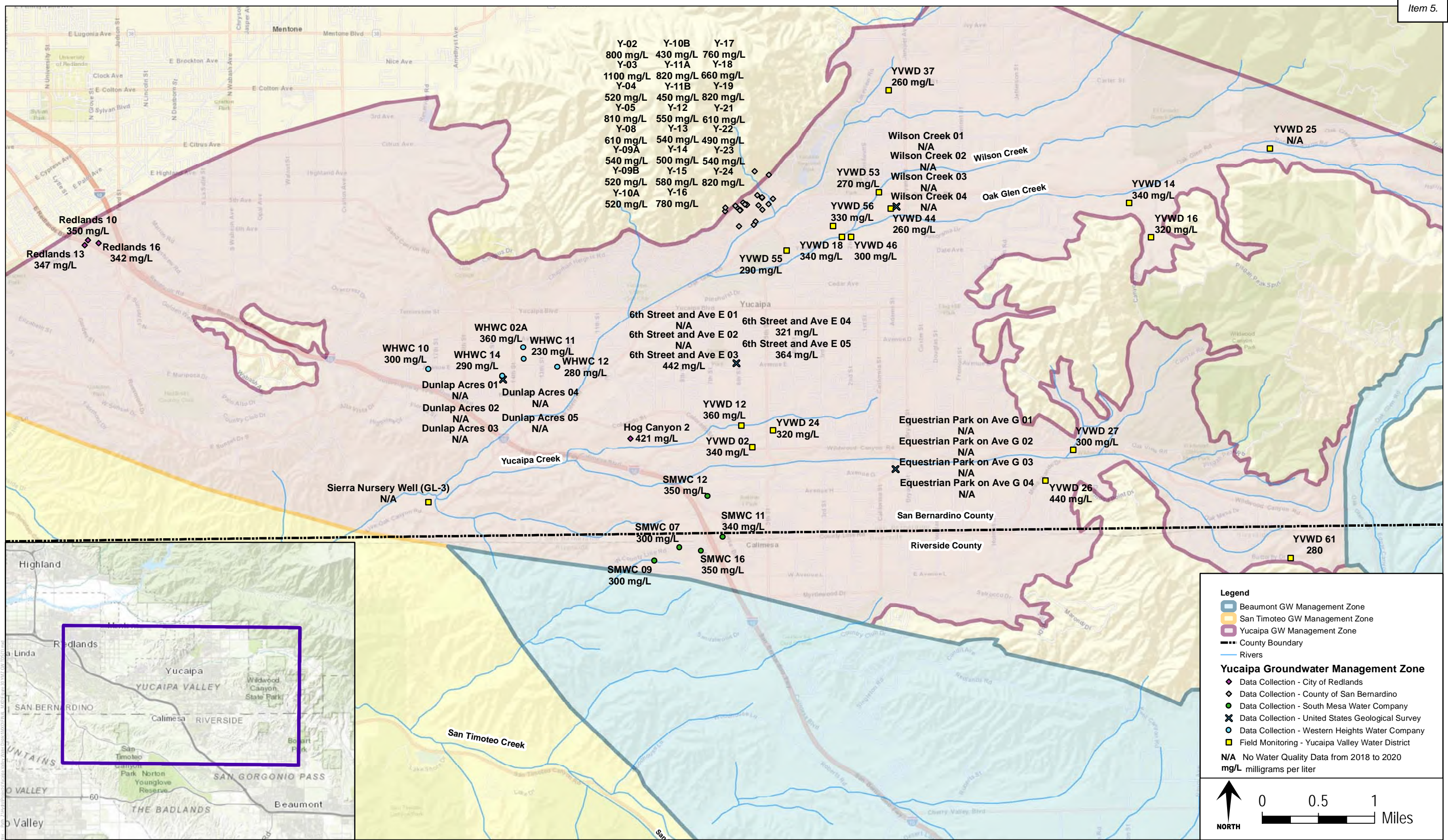


FIGURE 5
Maximum Concentrations of Total Dissolved Solids (TDS) in Groundwater in the Yucaipa Groundwater Management Zone from 2018 to 2020

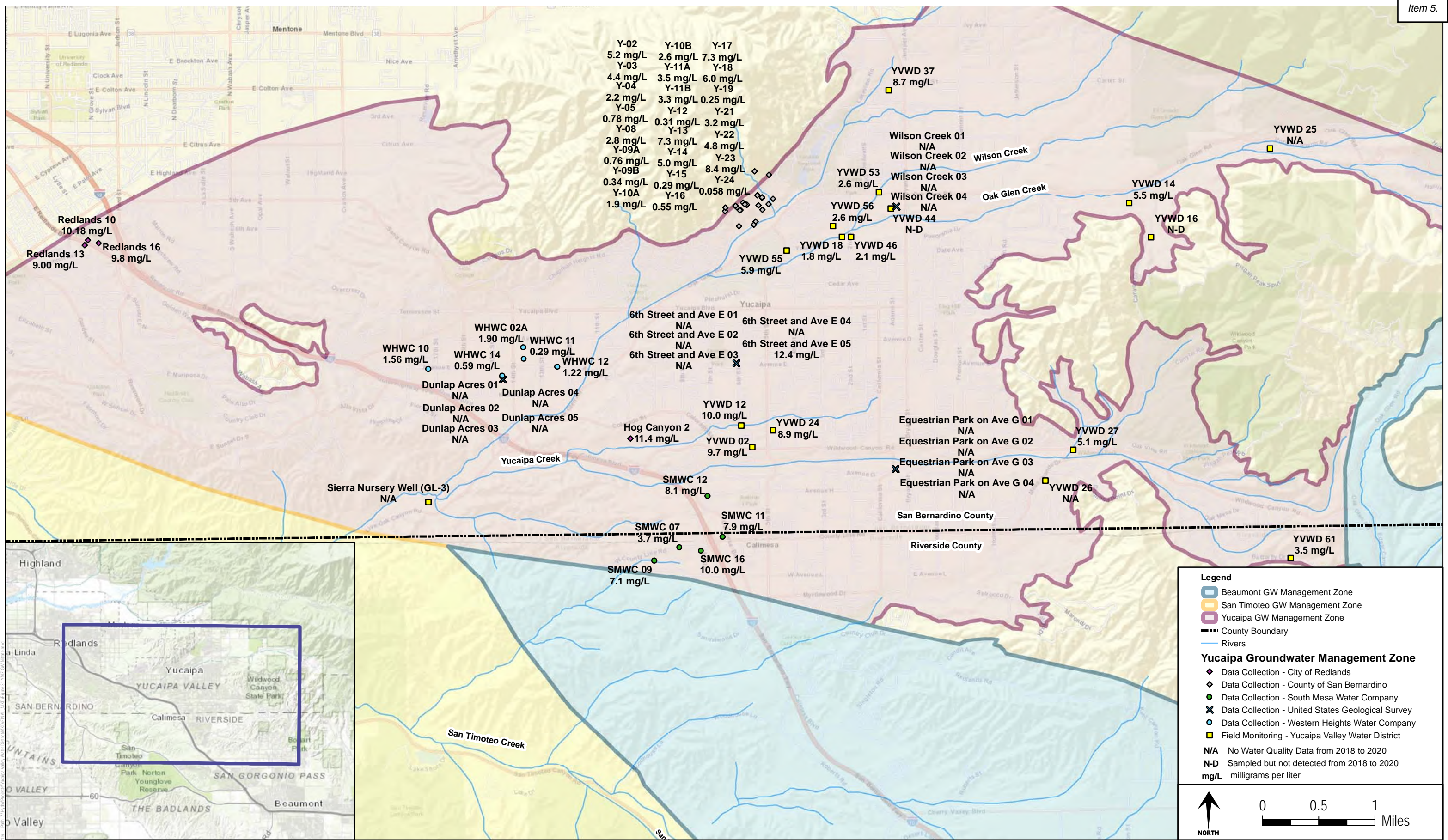


FIGURE 6
Maximum Concentrations of Nitrate (as Nitrogen) in Groundwater in the Yucaipa Groundwater Management Zone from 2018 to 2020

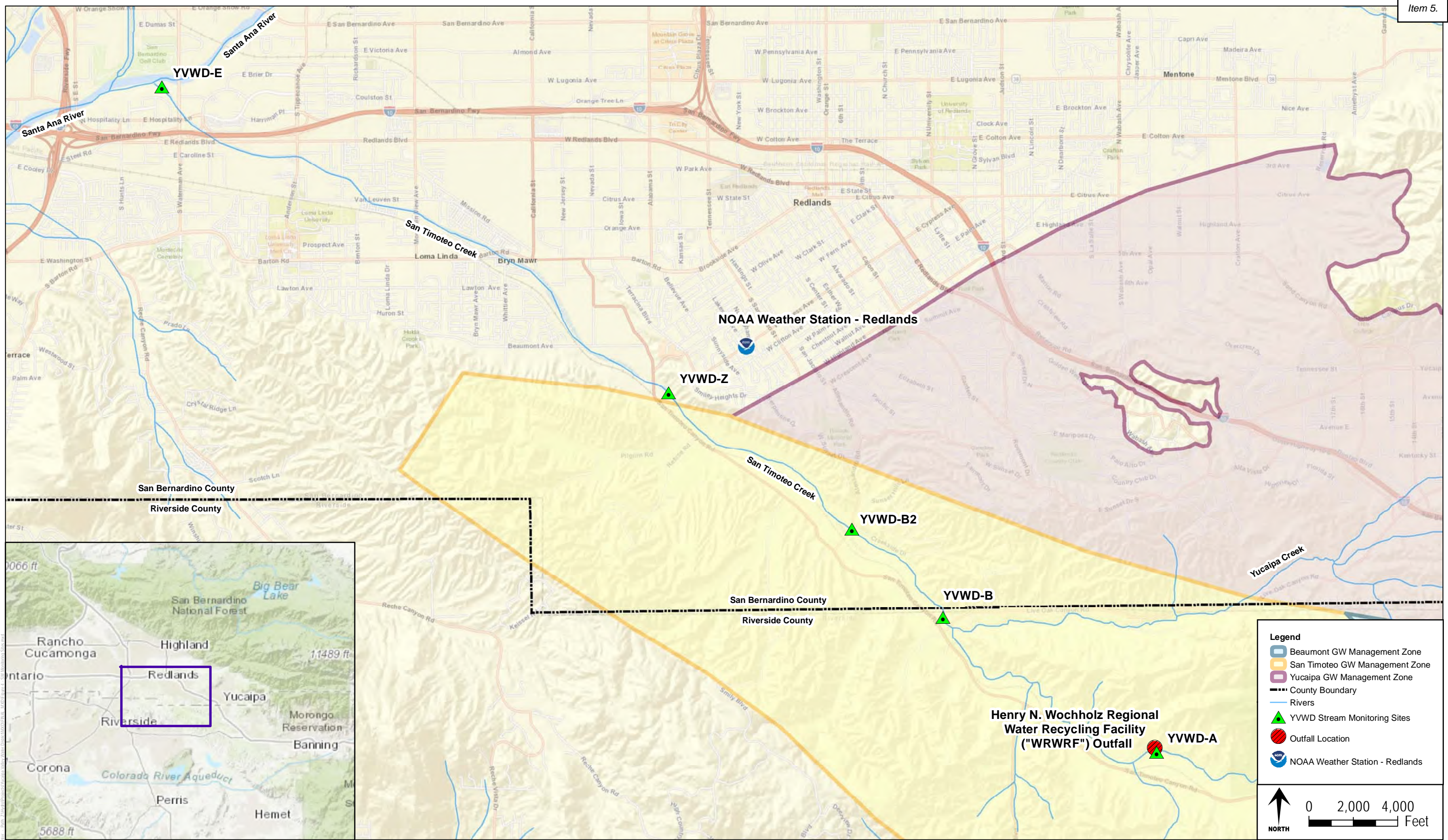
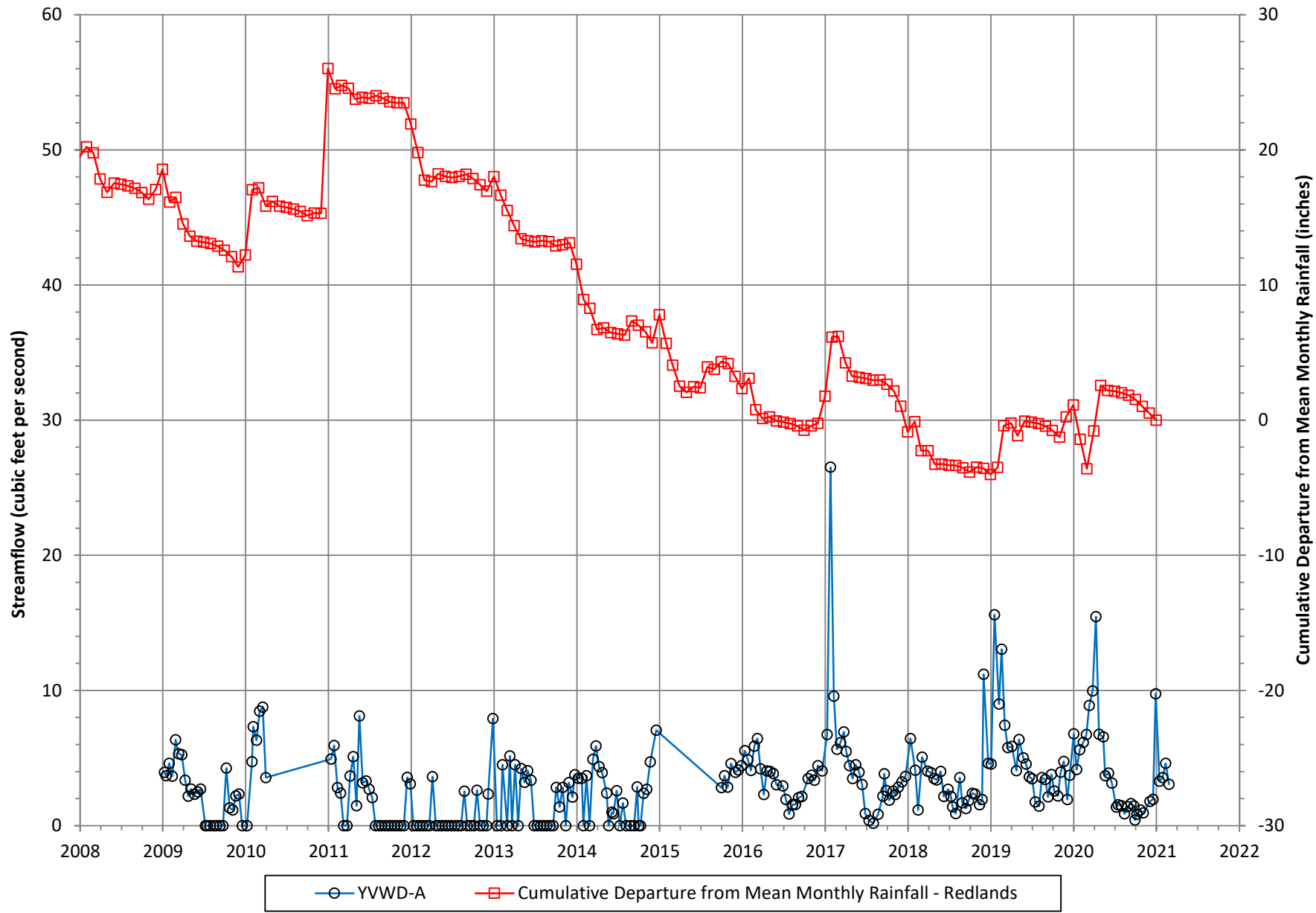


FIGURE 7
Surface Water Monitoring Sites in the San Timoteo Groundwater Management Zone

Stream Flow at YVWD-A



Stream Flow at YVWD-B and YVWD-B2

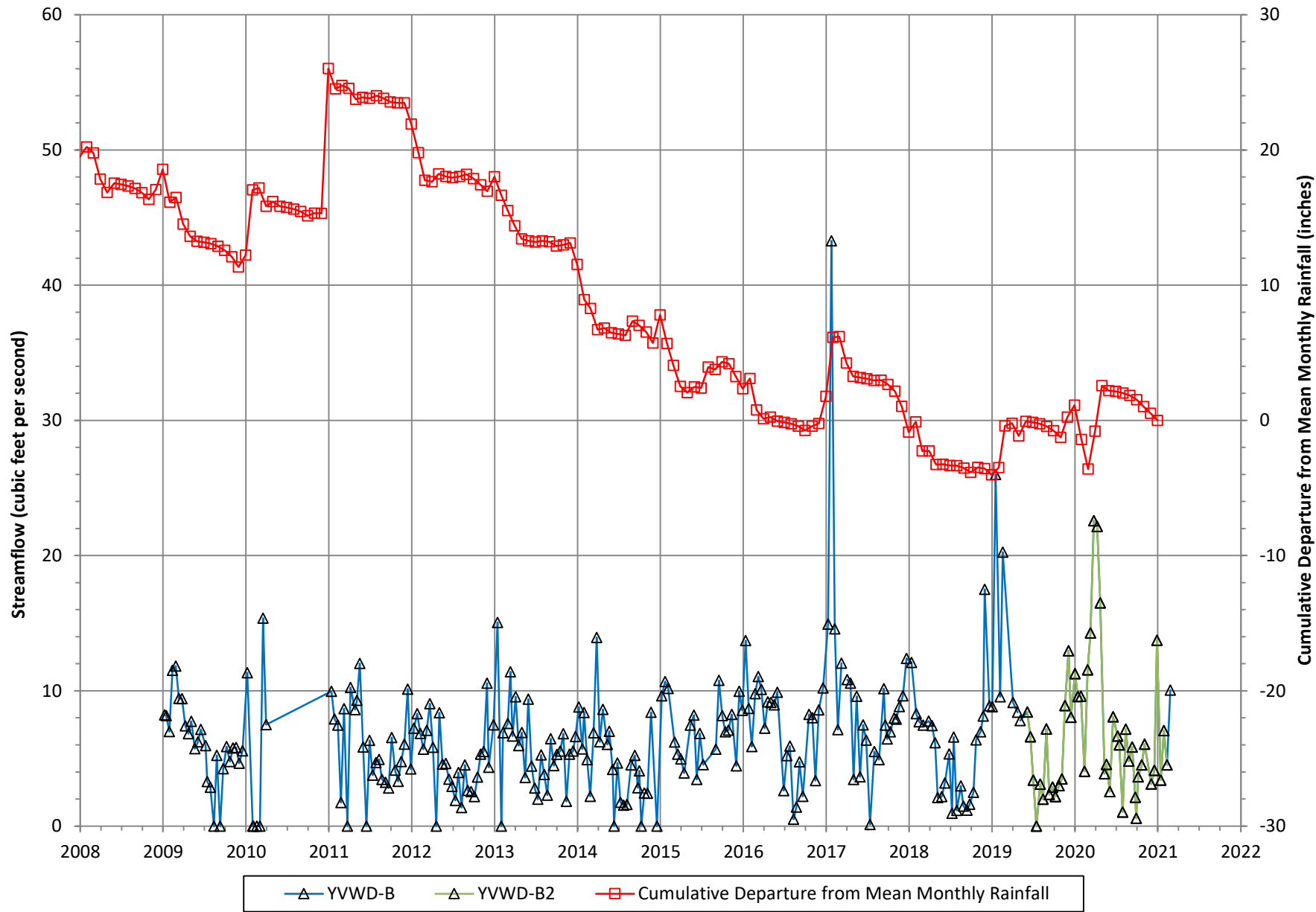
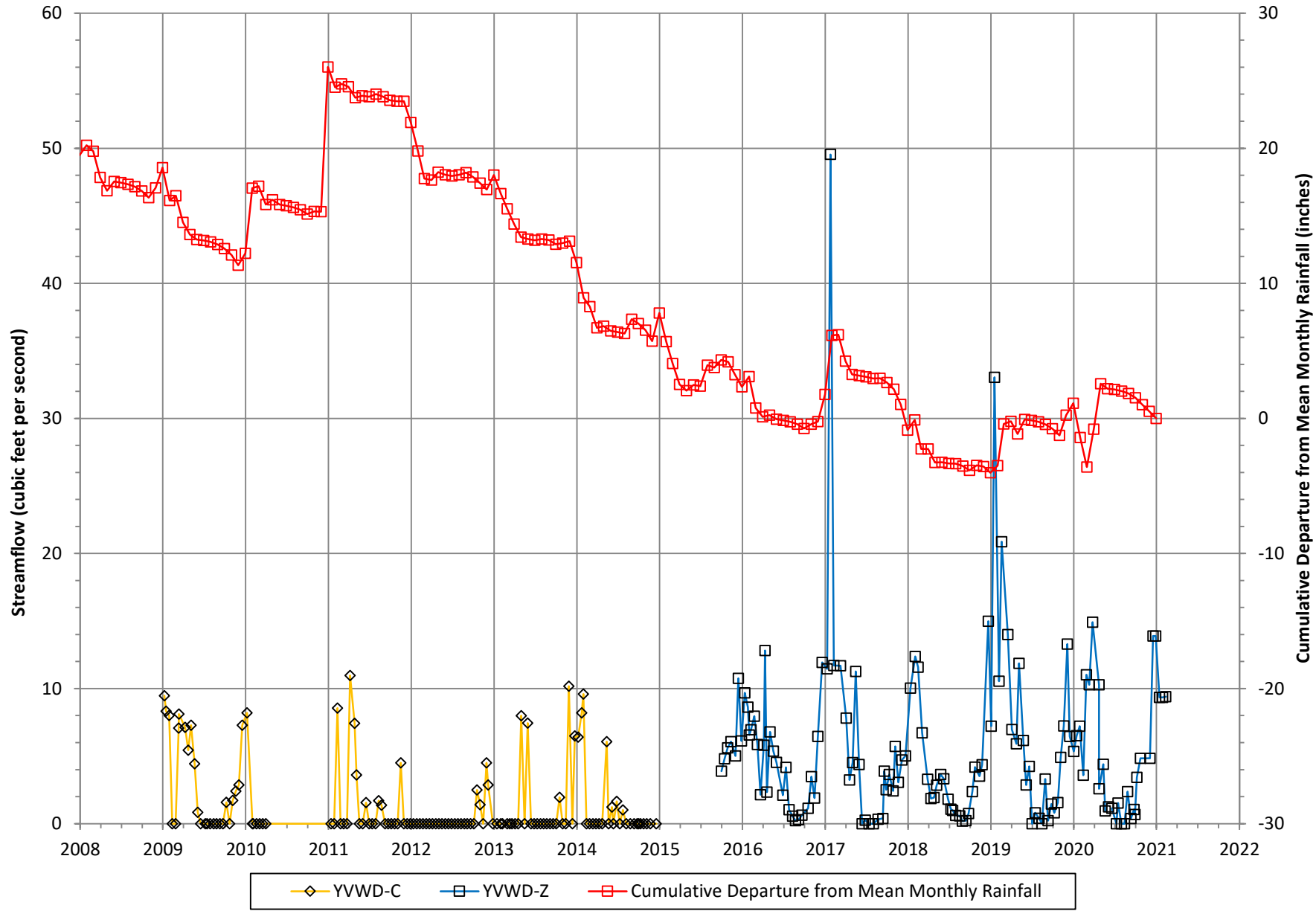
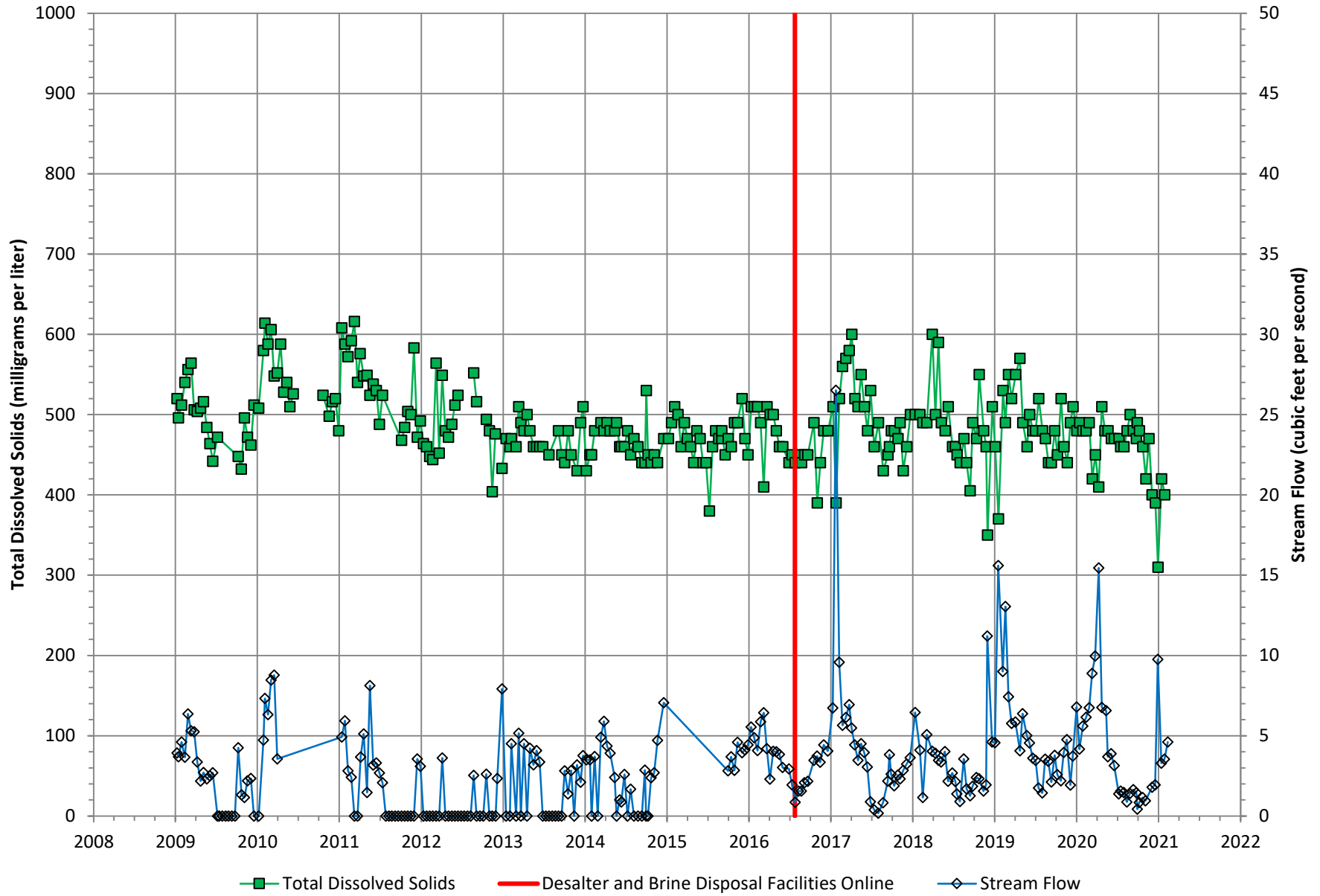


Figure 9

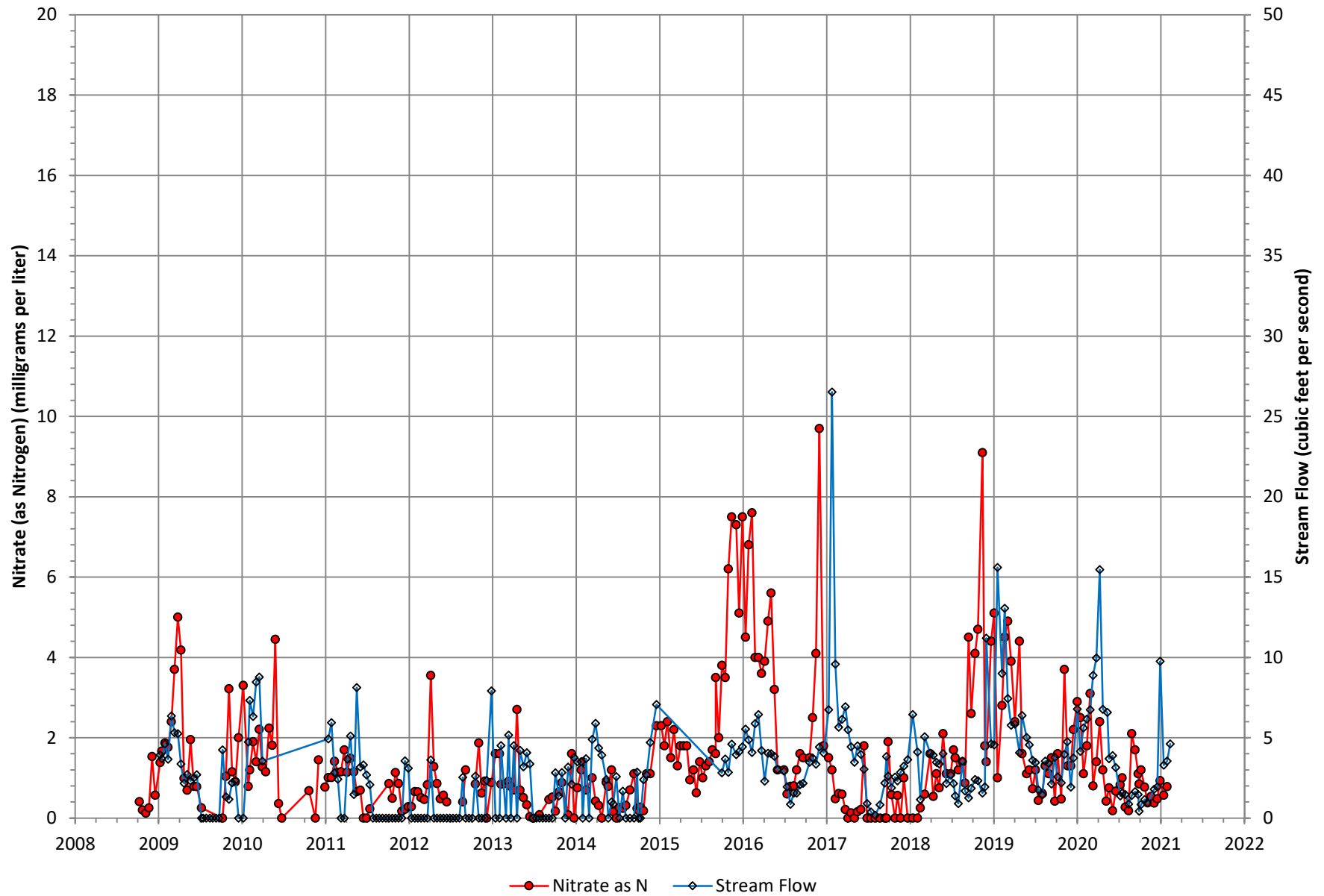
Stream Flow at YVWD-C and YVWD-Z



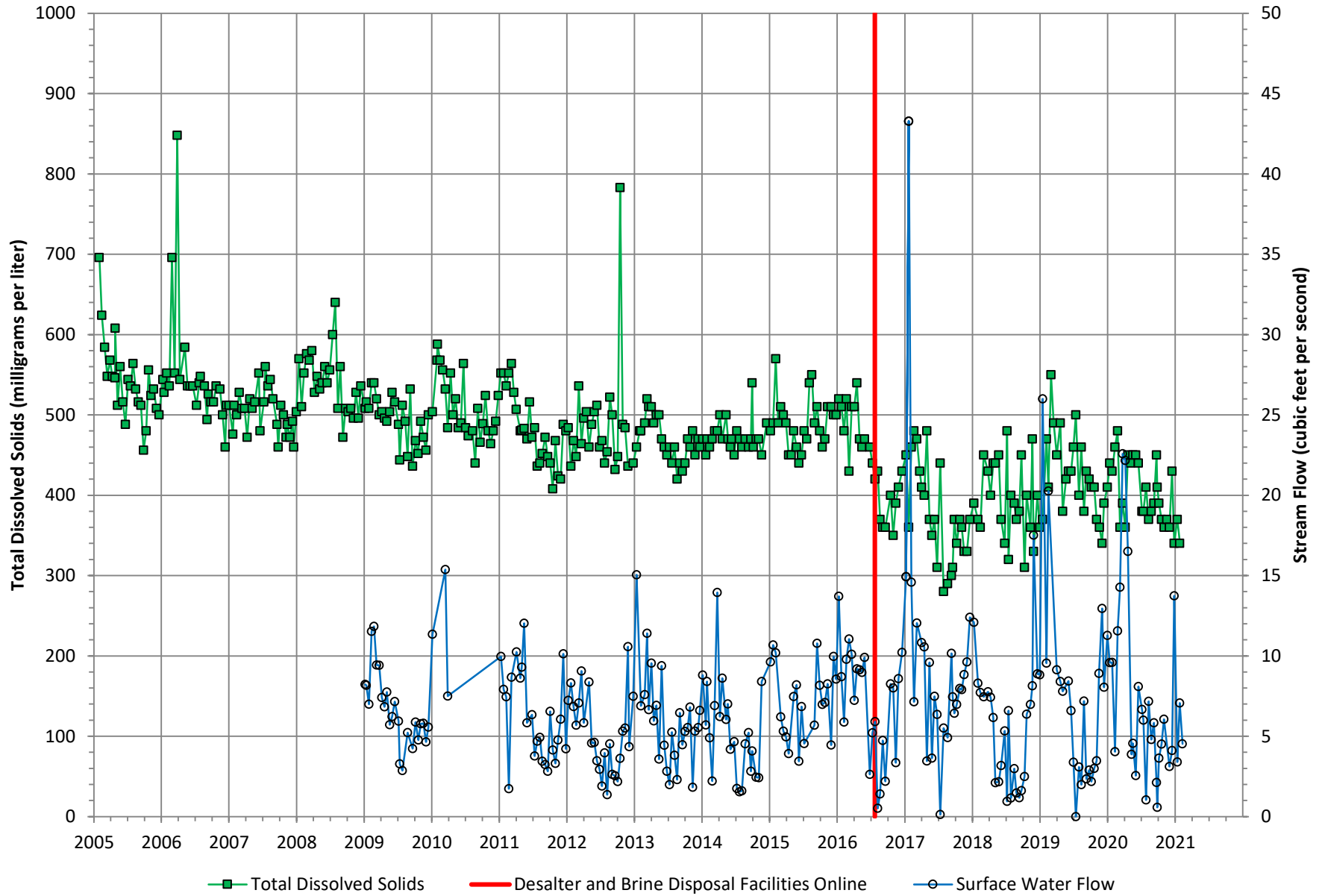
Total Dissolved Solids and Stream Flow at YVWD-A



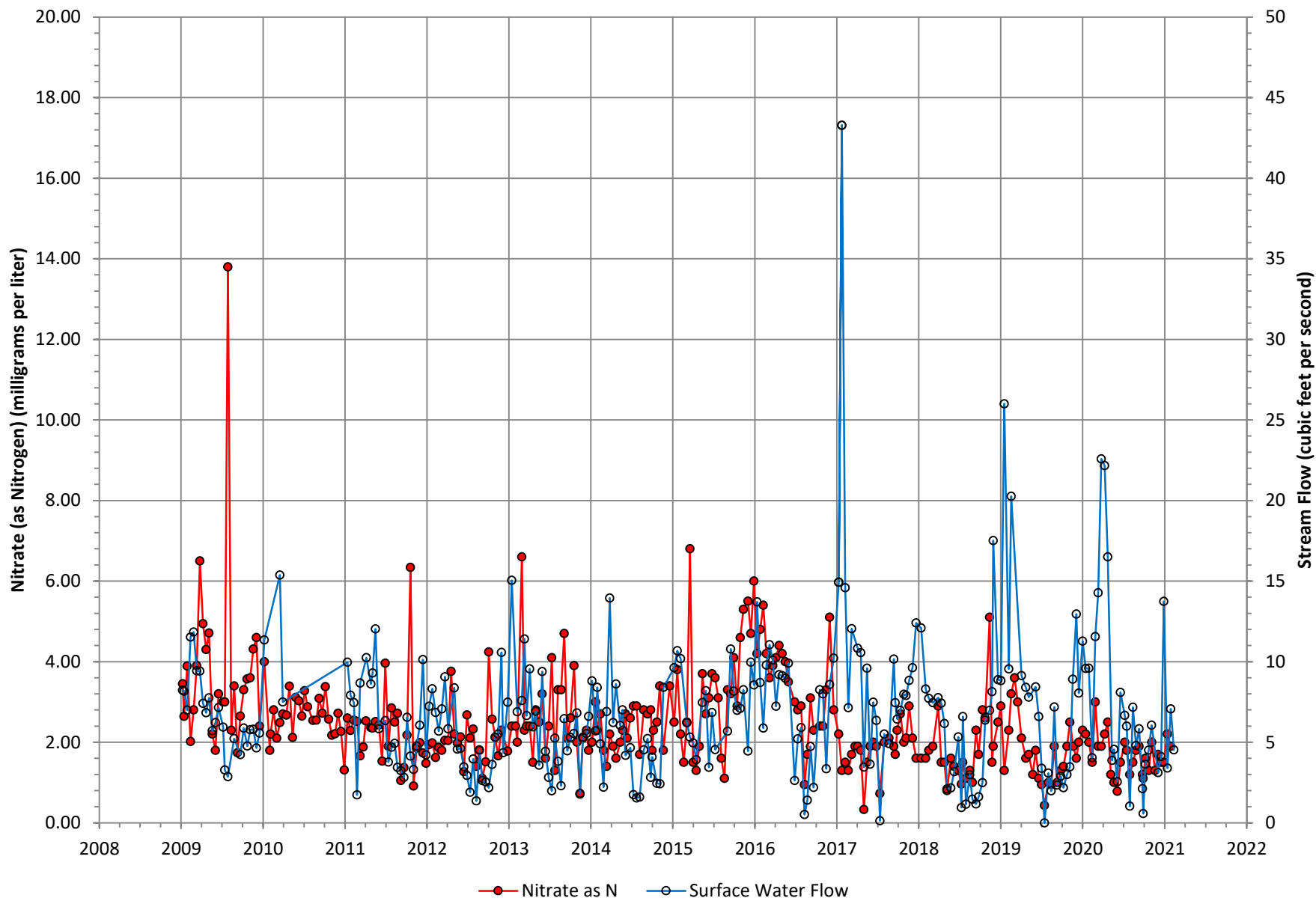
Nitrate (as Nitrogen) and Stream Flow at YVWD-A



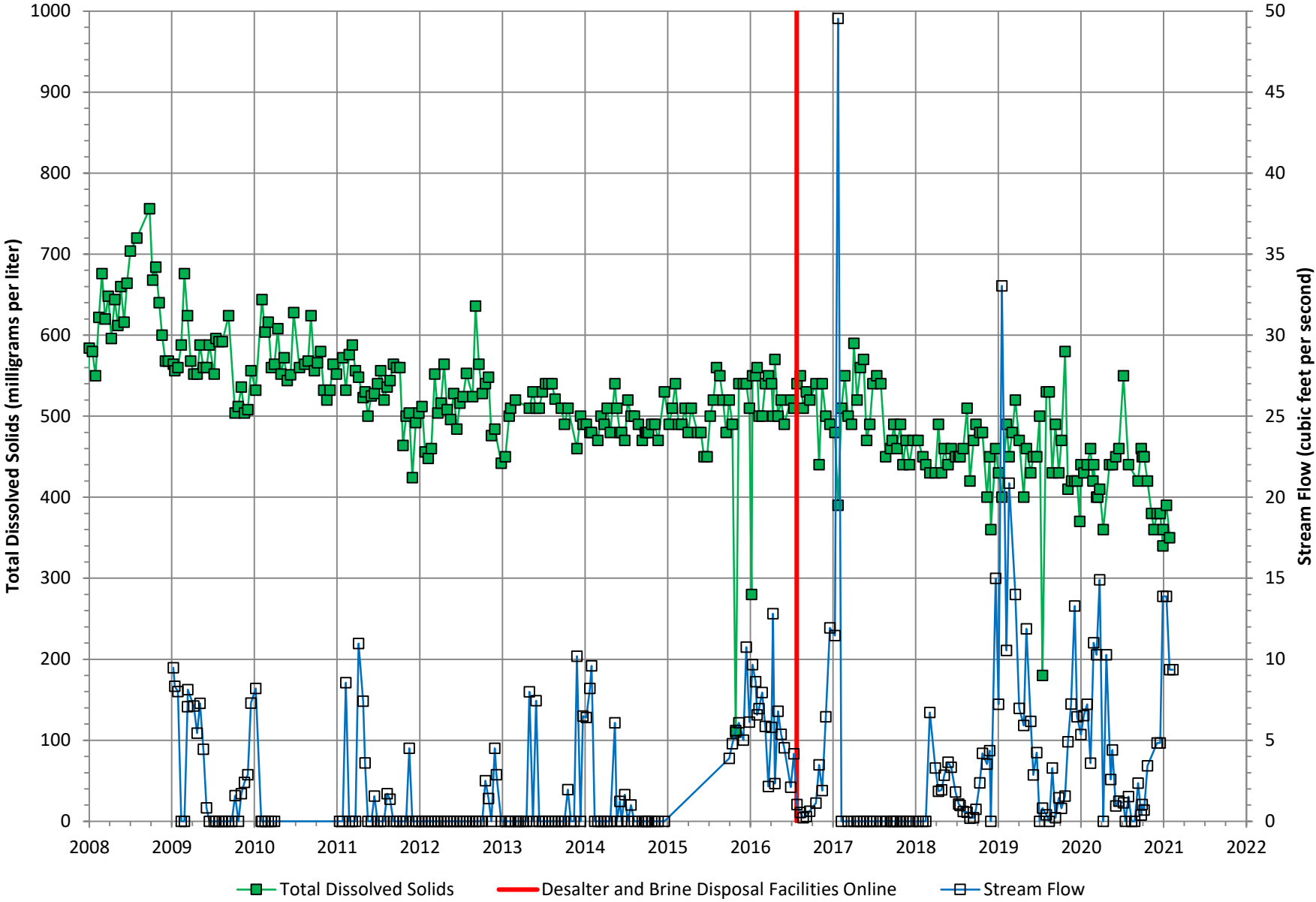
Total Dissolved Solids and Stream Flow at YVWD-B and YVWD-B2



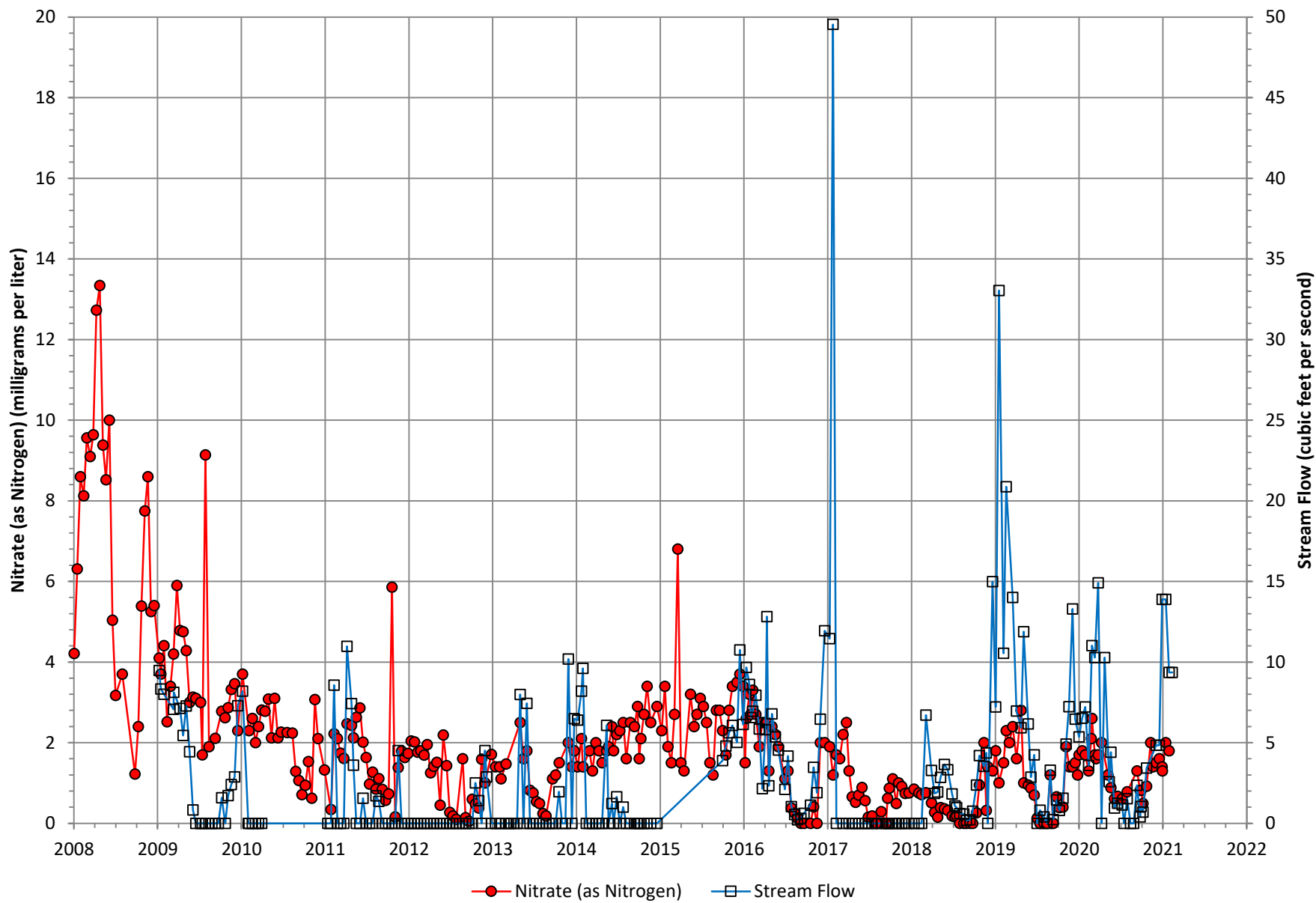
Nitrate (as Nitrogen) and Stream Flow at YVWD-B and YVWD-B2



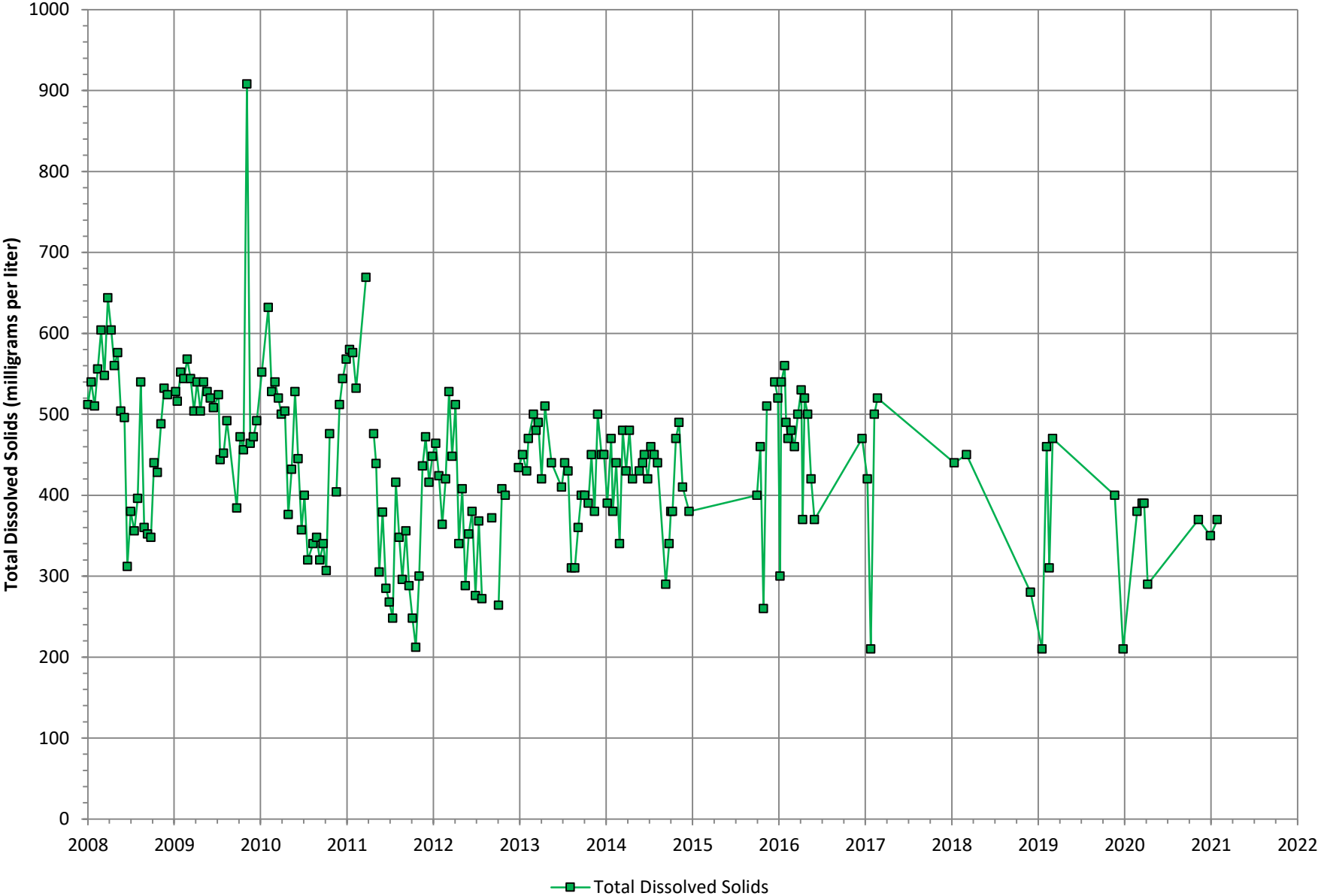
Total Dissolved Solids and Stream Flow at YVWD-Z (and YVWD-C)



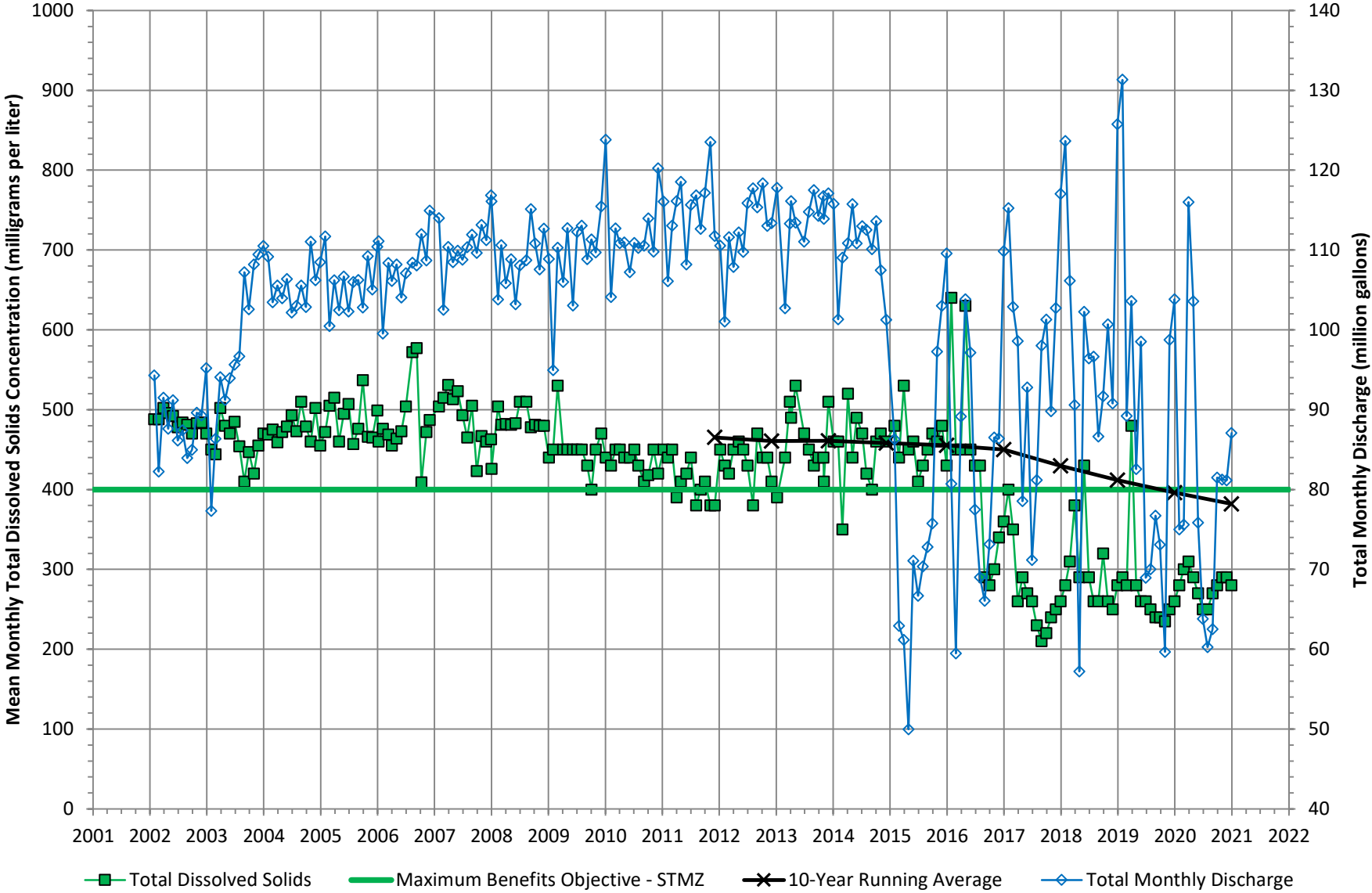
Nitrate (as Nitrogen) and Stream Flow at YVWD-Z (and YVWD-C)



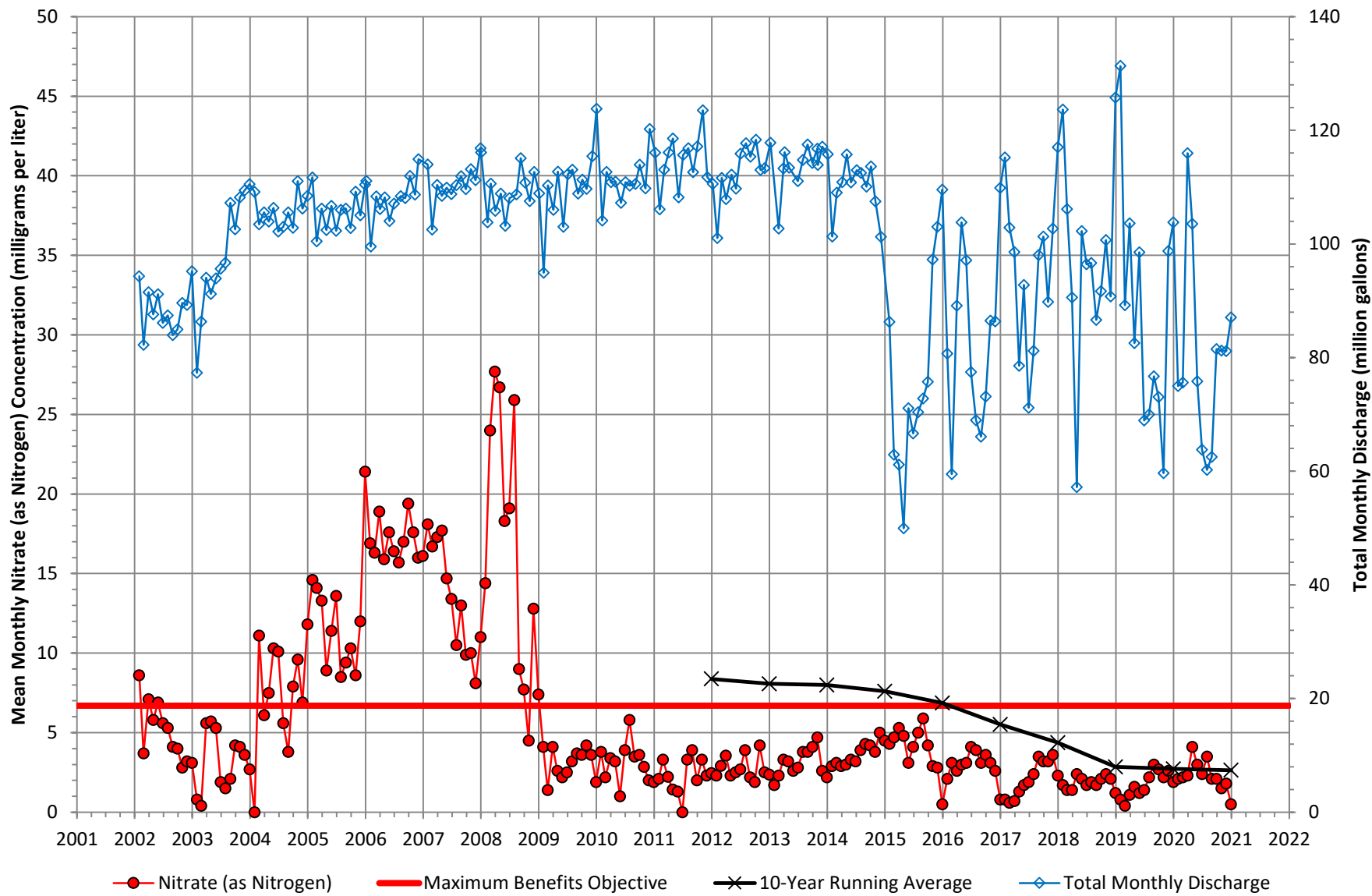
Total Dissolved Solids at YVWD-E

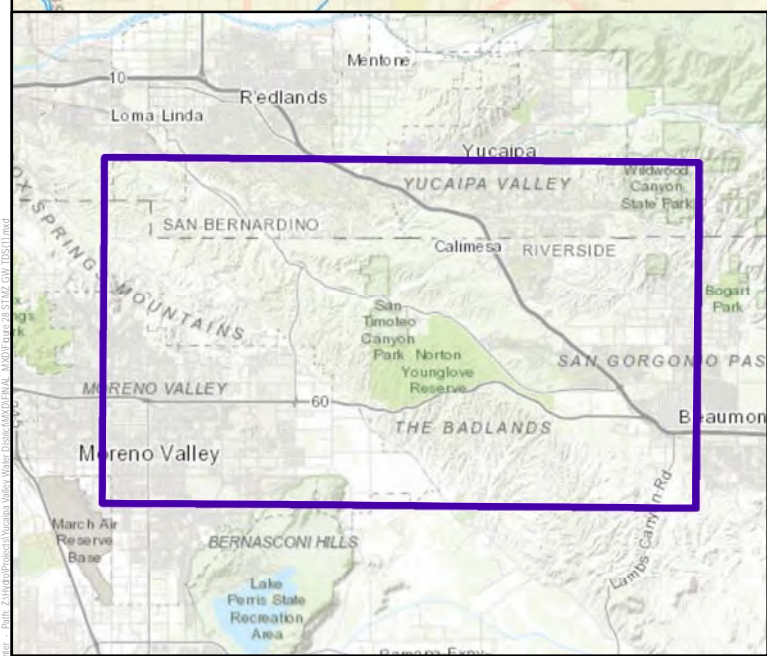
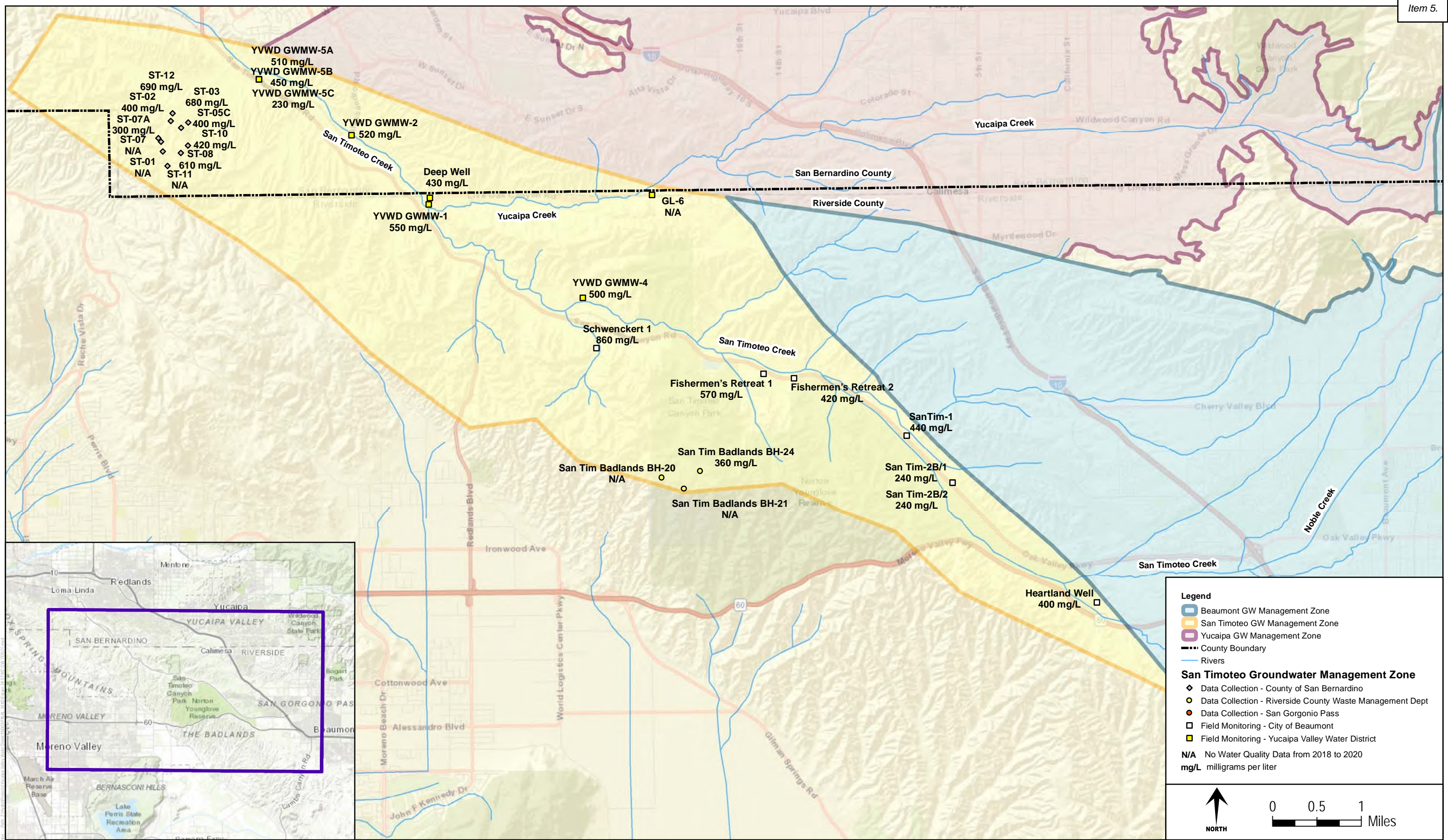


Total Dissolved Solids and Monthly Discharges of Recycled Water at WRWRF OutFall



Nitrate (as N) and Monthly Discharges of Recycled Water from WRWRF to San Timoteo Creek





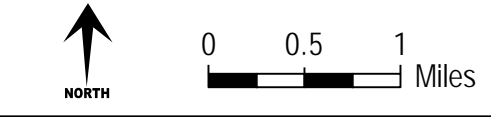
Legend

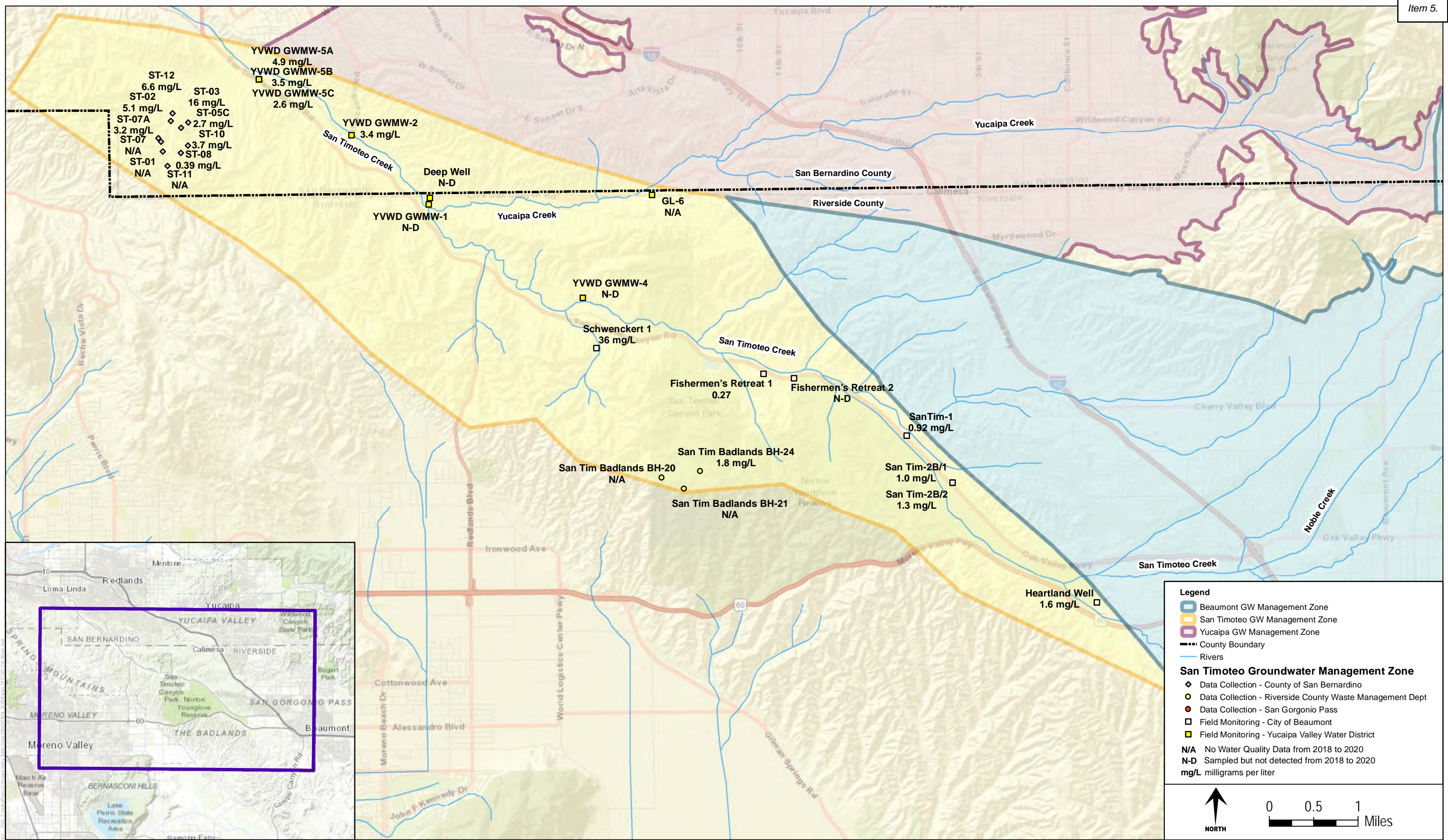
- Beaumont GW Management Zone
- San Timoteo GW Management Zone
- Yucaipa GW Management Zone
- County Boundary
- Rivers

San Timoteo Groundwater Management Zone

- ◆ Data Collection - County of San Bernardino
- Data Collection - Riverside County Waste Management Dept
- Data Collection - San Geronimo Pass
- Field Monitoring - City of Beaumont
- Field Monitoring - Yucaipa Valley Water District

N/A No Water Quality Data from 2018 to 2020
mg/L milligrams per liter





Legend

- Beaumont GW Management Zone
- San Timoteo GW Management Zone
- Yucaipa GW Management Zone
- County Boundary
- Rivers

San Timoteo Groundwater Management Zone

- ◆ Data Collection - County of San Bernardino
- Data Collection - Riverside County Waste Management Dept
- Data Collection - San Gorgonio Pass
- Field Monitoring - City of Beaumont
- Field Monitoring - Yucaipa Valley Water District

N/A No Water Quality Data from 2018 to 2020
 N-D Sampled but not detected from 2018 to 2020
 mg/L milligrams per liter

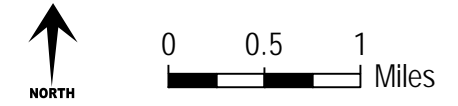
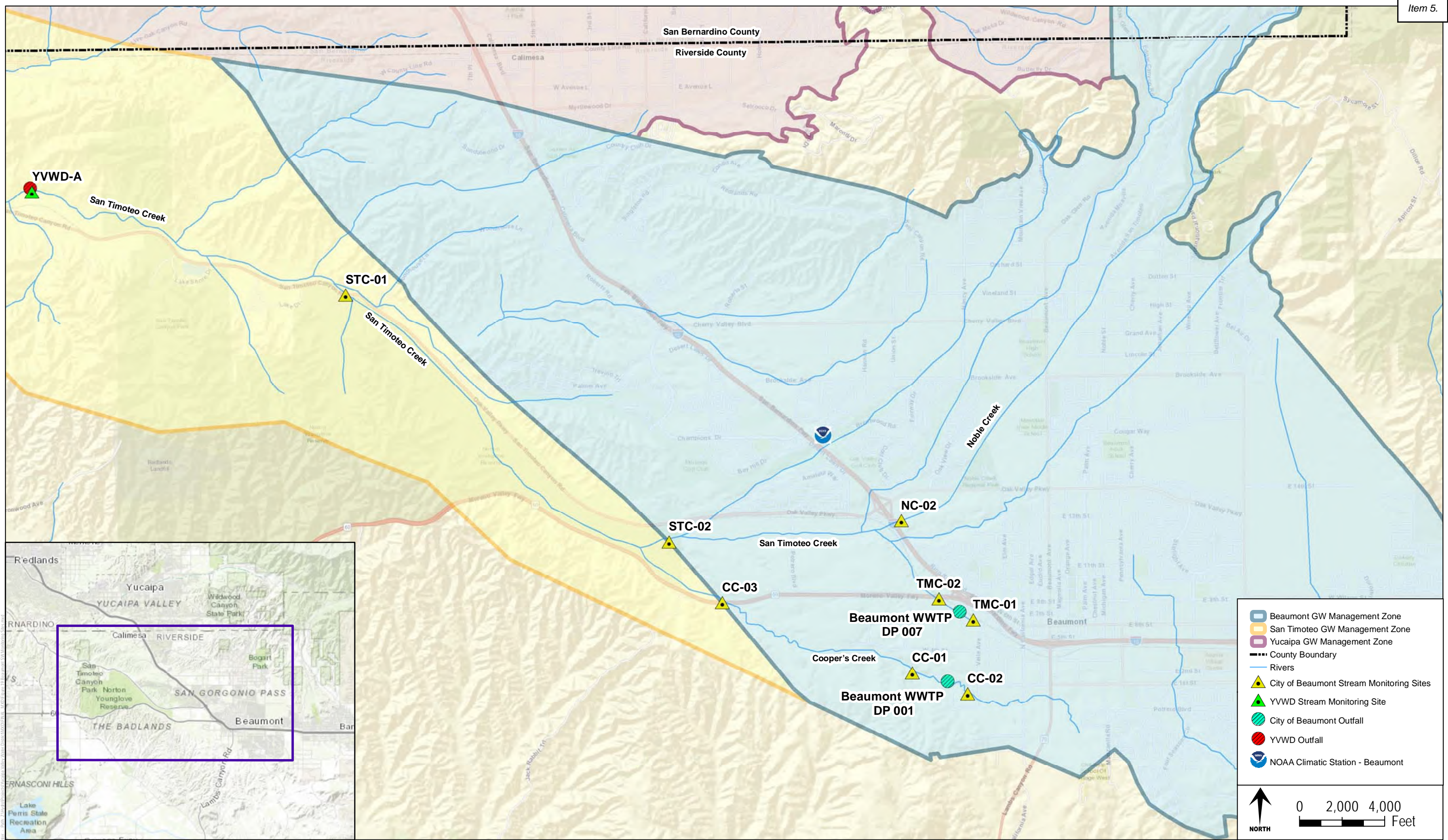


FIGURE 22
 Maximum Concentrations of Nitrate (as Nitrogen) in Groundwater in the San Timoteo Groundwater Management Zone from 2018 to 2020

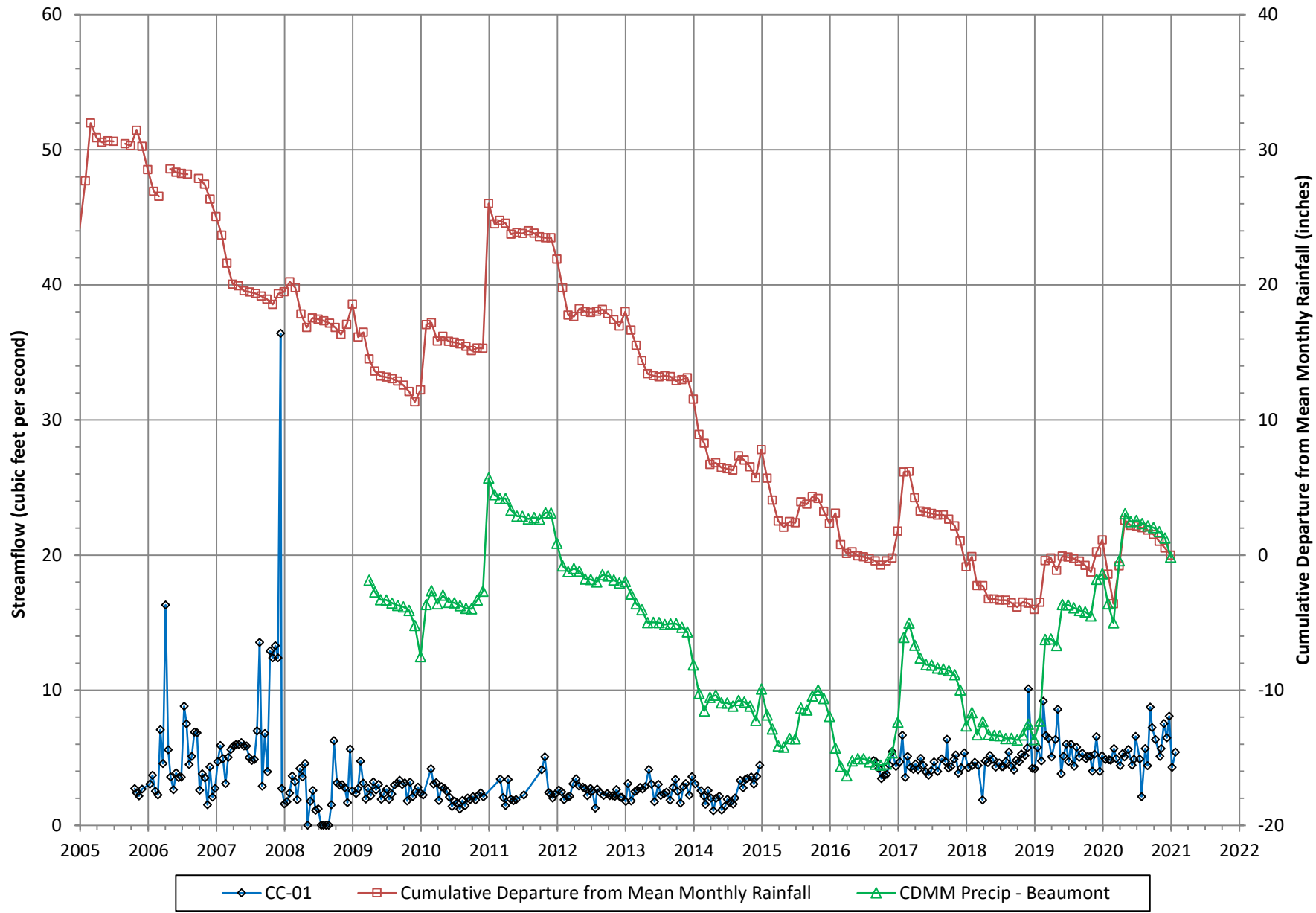


- Beaumont GW Management Zone
- San Timoteo GW Management Zone
- Yucaipa GW Management Zone
- County Boundary
- Rivers
- ▲ City of Beaumont Stream Monitoring Sites
- ▲ YVWD Stream Monitoring Site
- City of Beaumont Outfall
- YVWD Outfall
- ⊙ NOAA Climatic Station - Beaumont

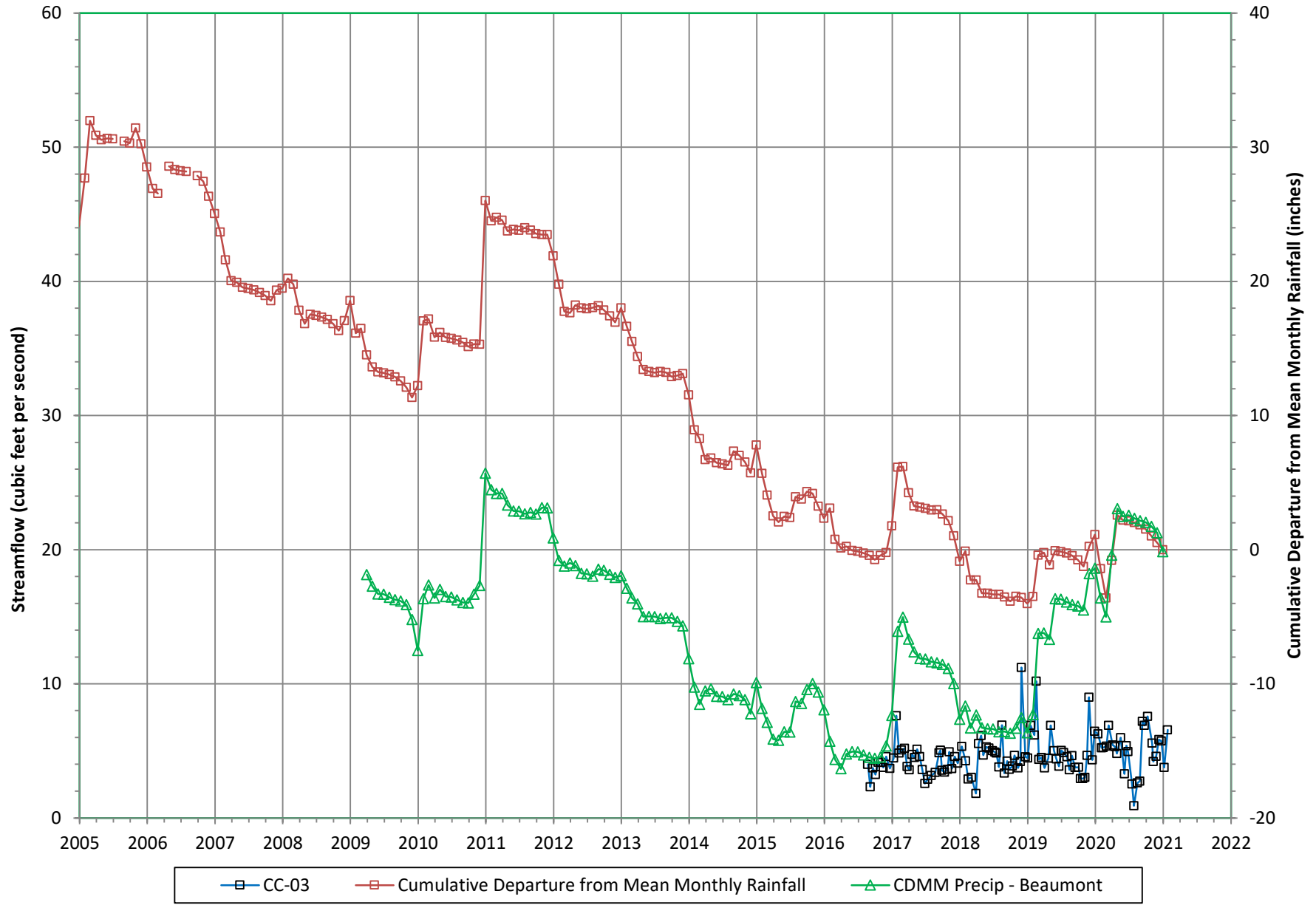
↑
 NORTH

0 2,000 4,000
 Feet

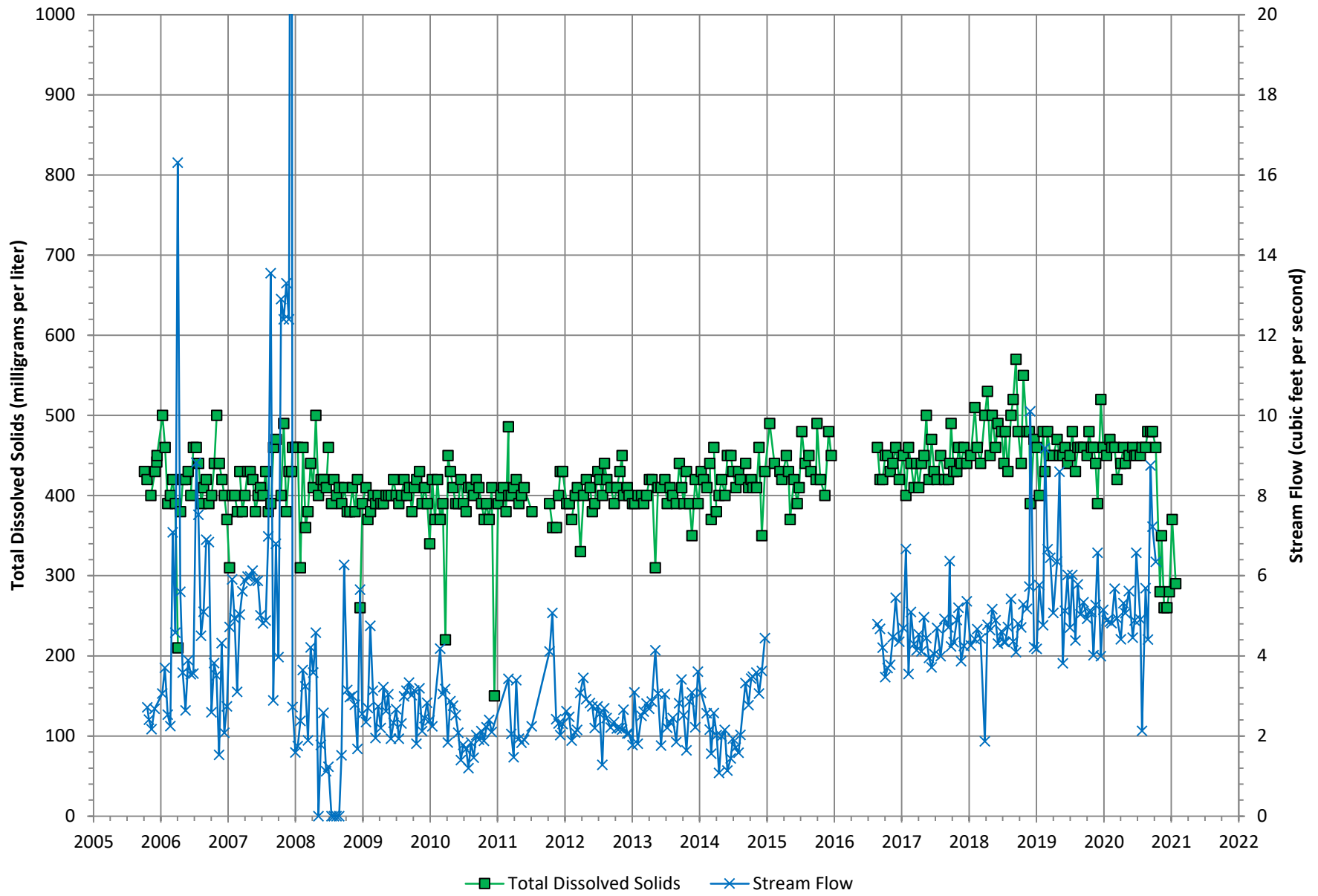
Stream Flow at CC-01



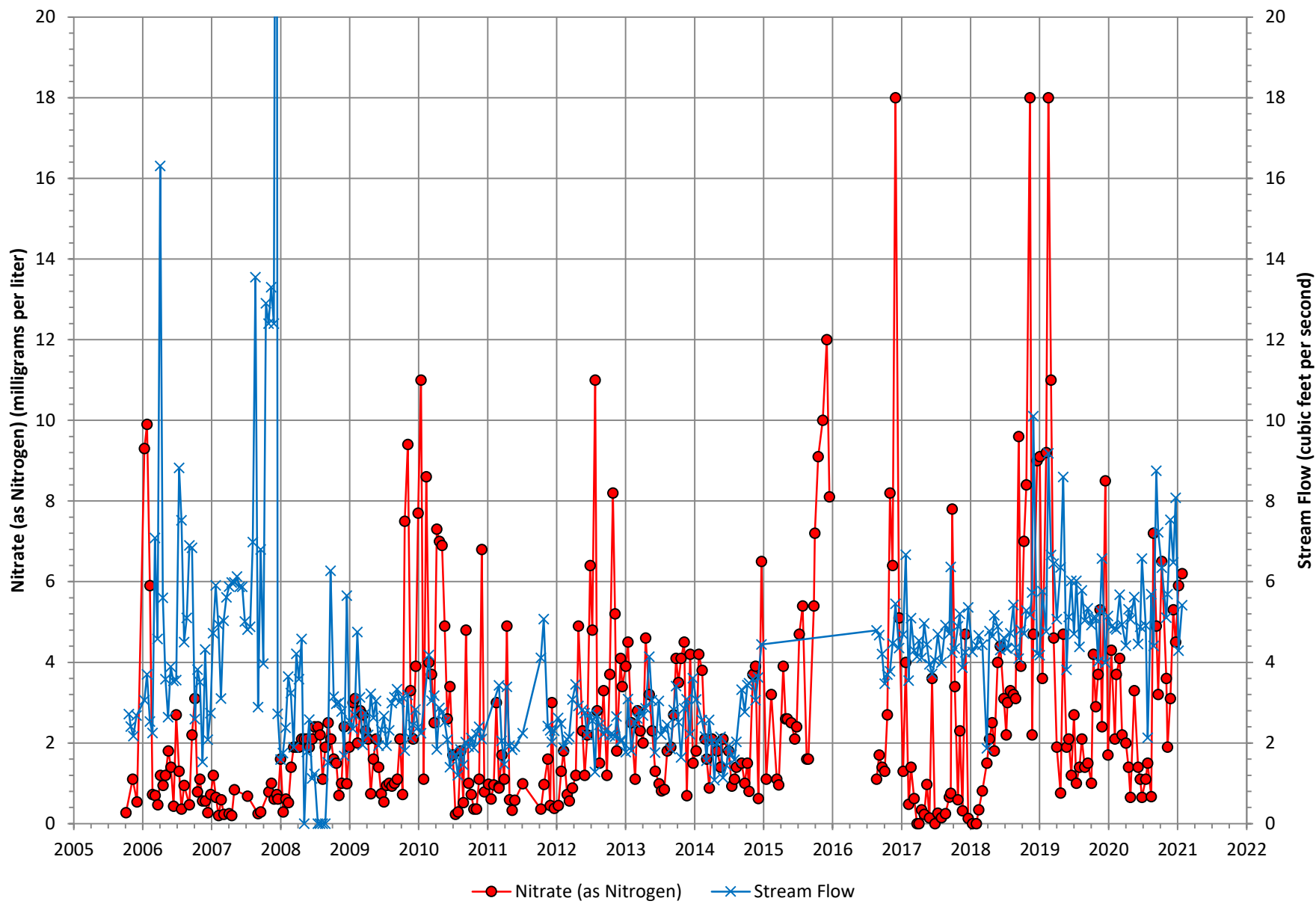
Stream Flow at CC-03



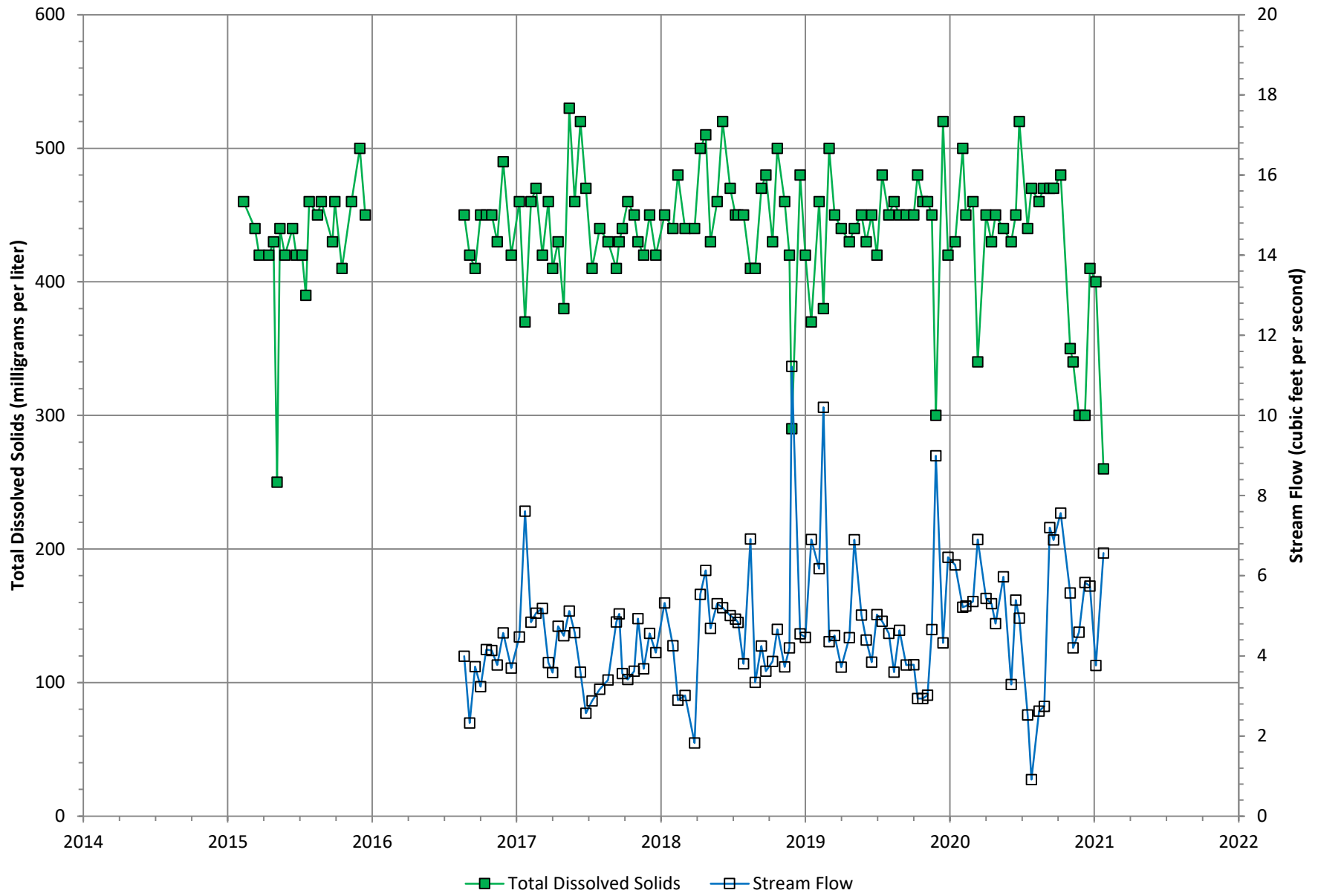
Total Dissolved Solids and Stream Flow at CC-01



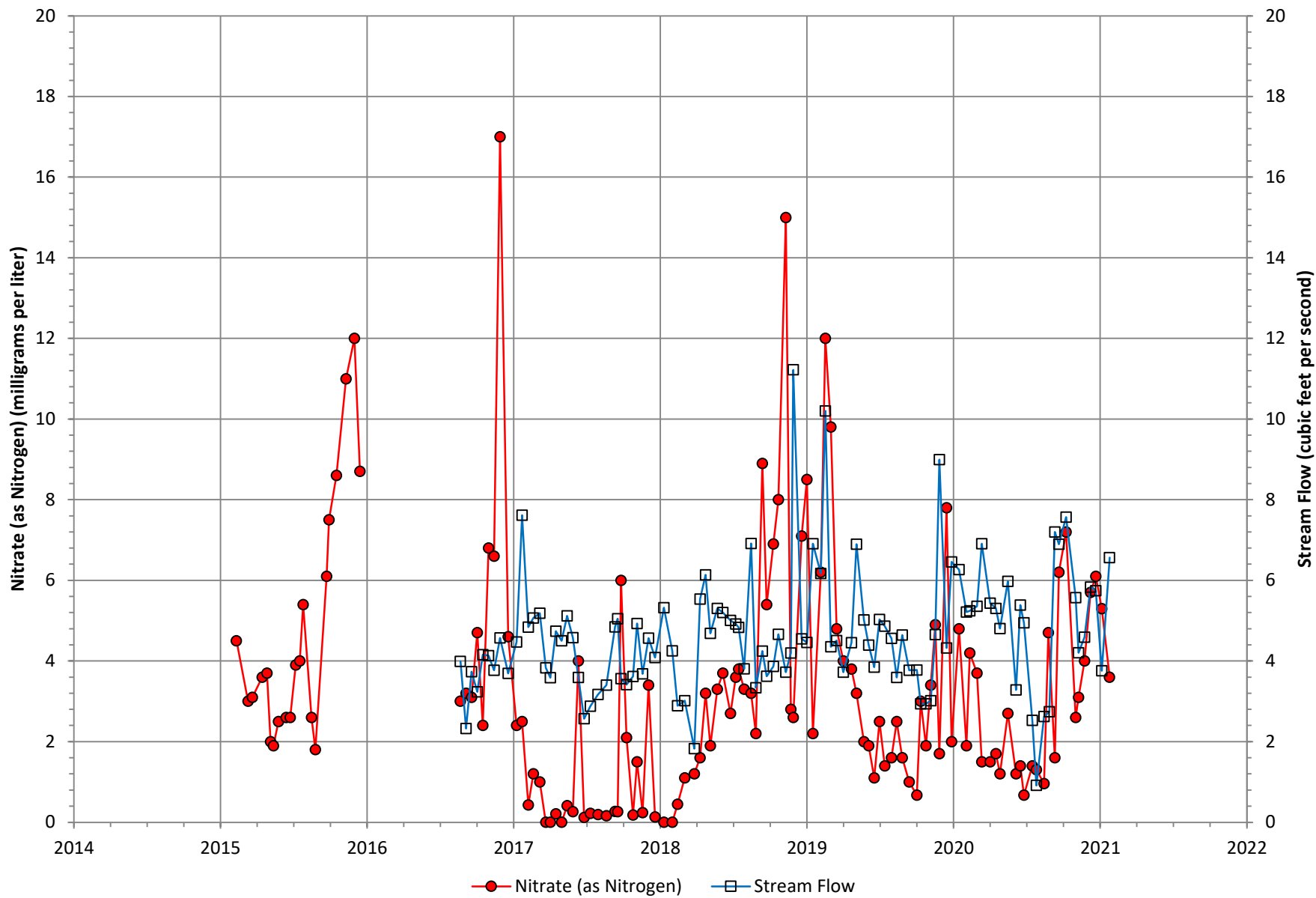
Nitrate (as Nitrogen) and Stream Flow at CC-01



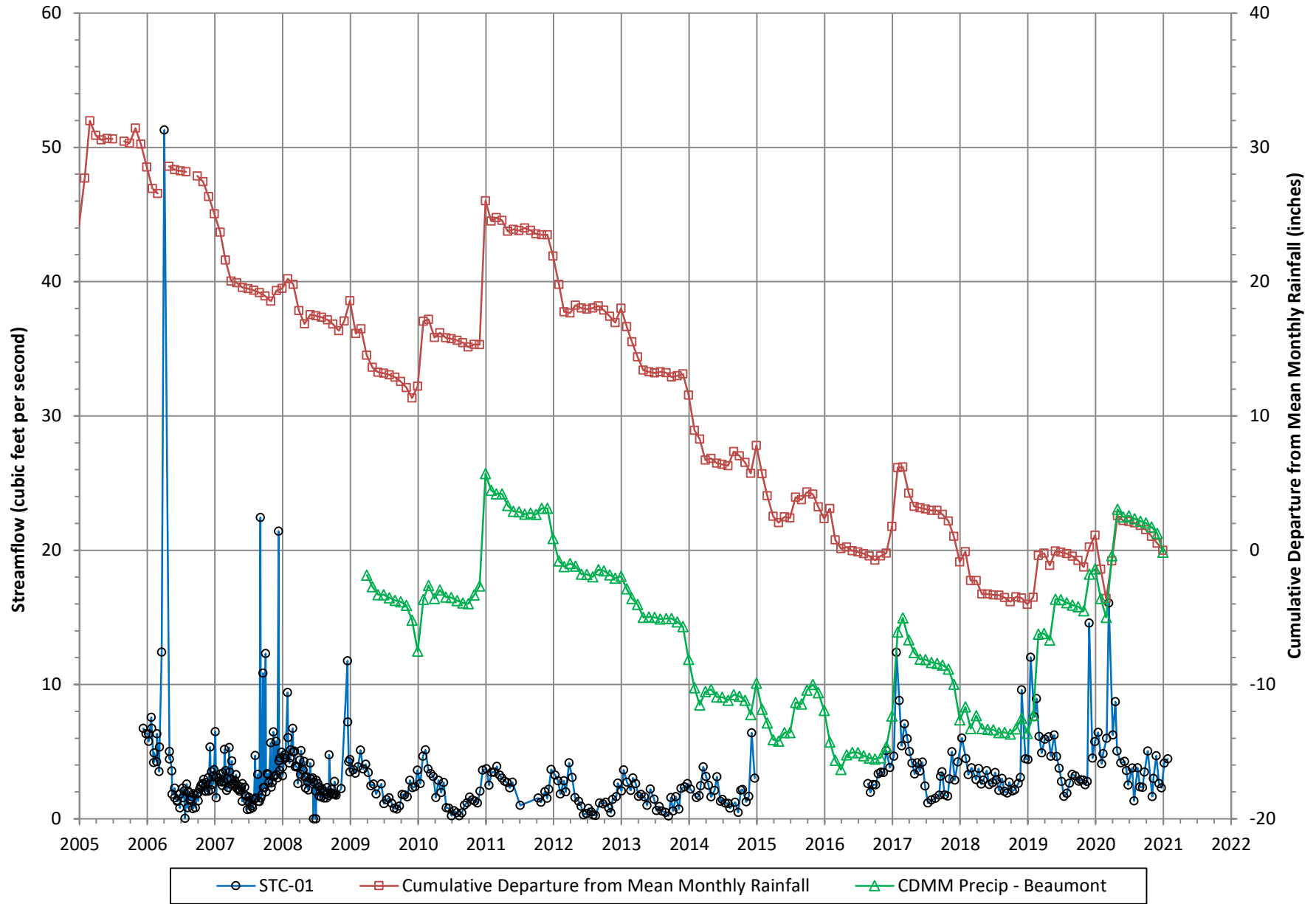
Total Dissolved Solids and Stream Flow at CC-03



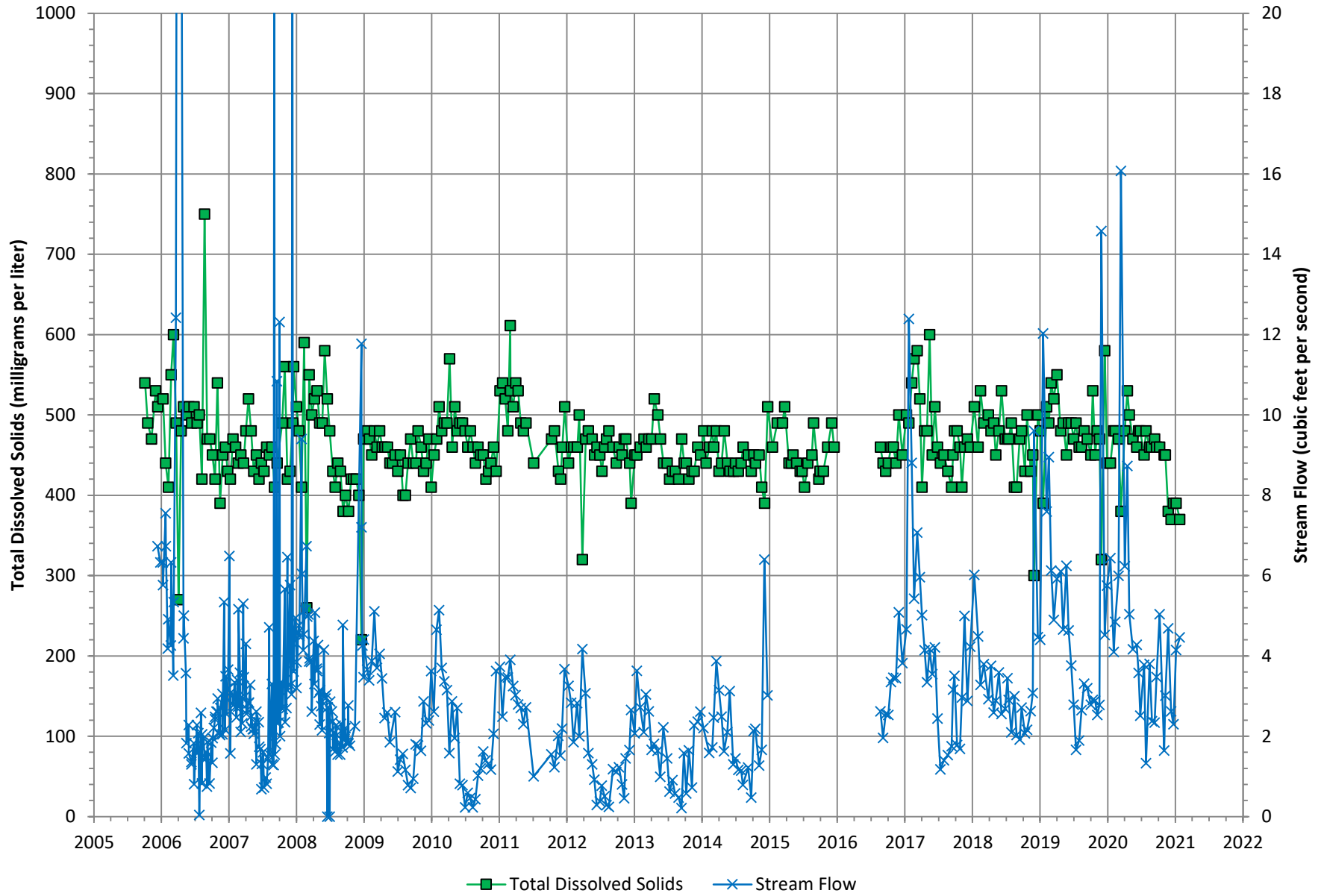
Nitrate (as Nitrogen) and Stream Flow at CC-03



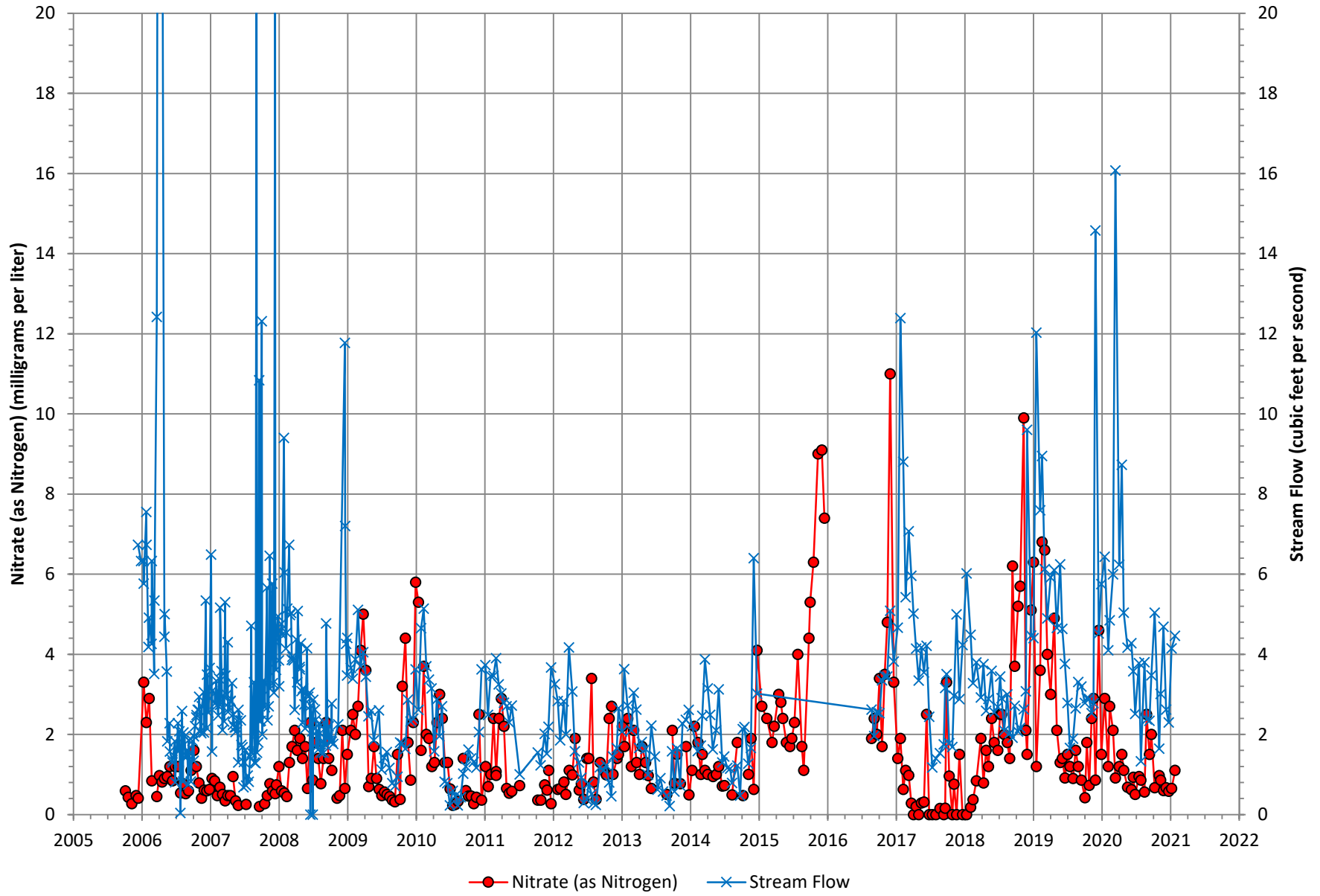
Stream Flow at STC-01



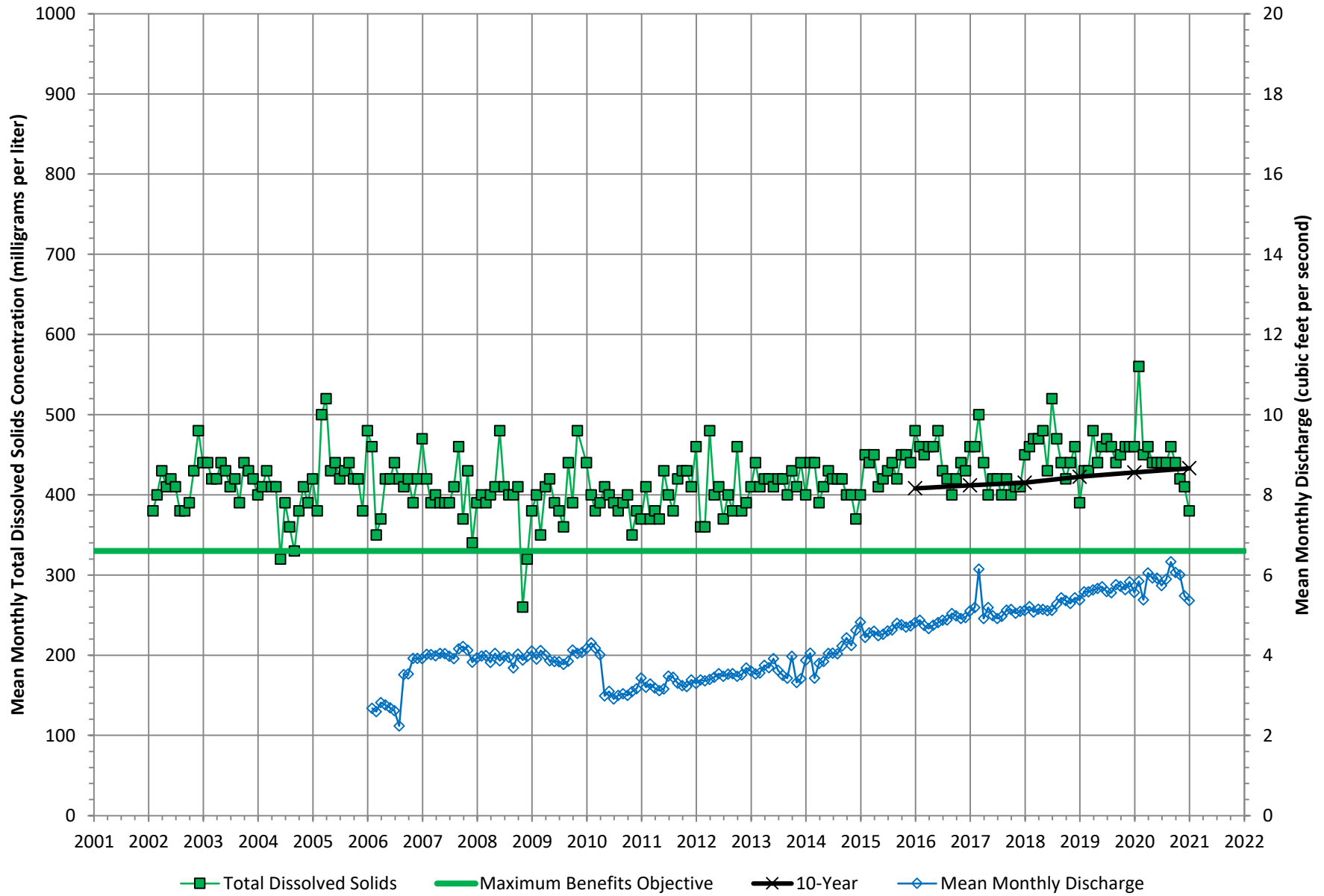
Total Dissolved Solids and Stream Flow at STC-01



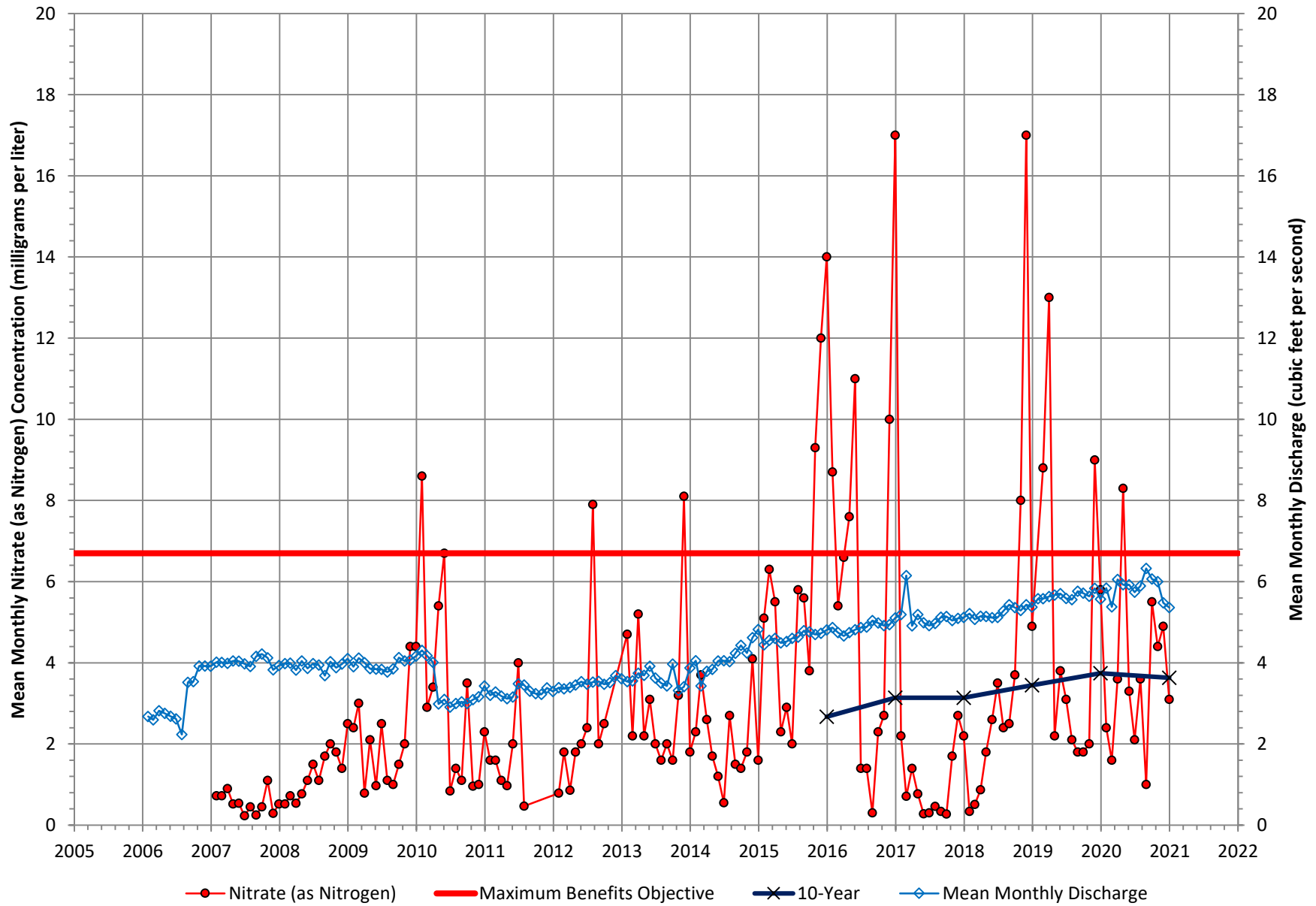
Nitrate (as Nitrogen) and Stream Flow at STC-01

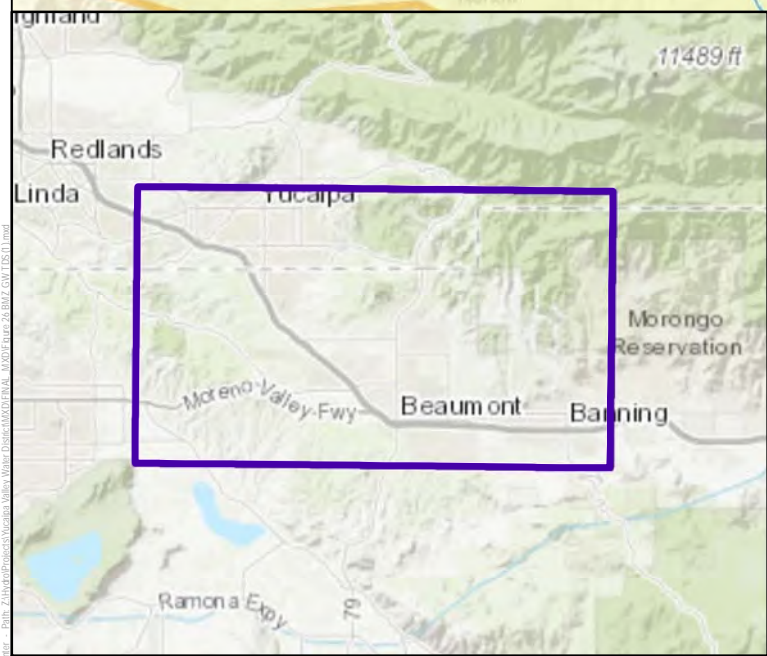
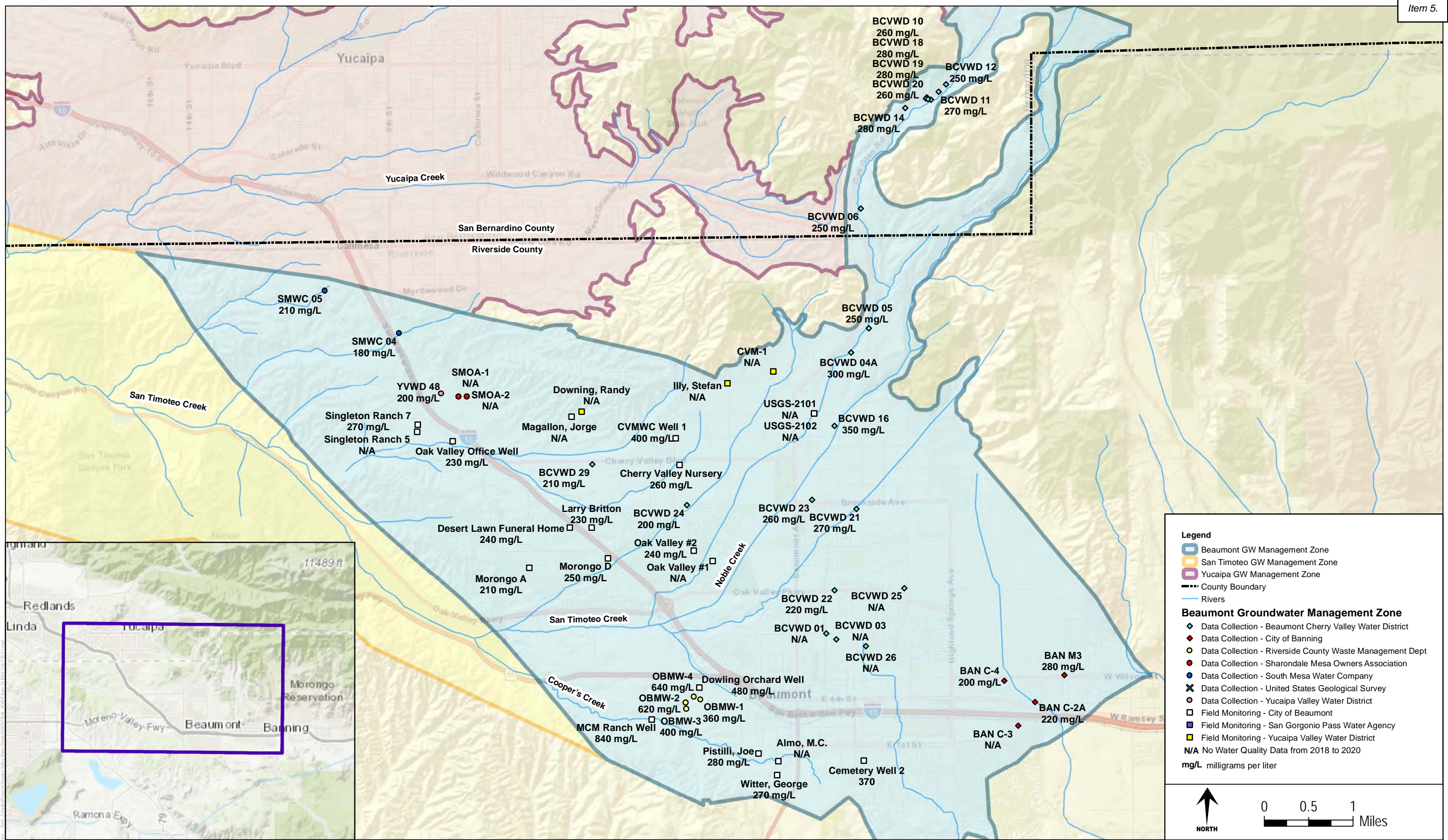


TDS and Monthly Discharges at DP-001 Outfall



Nitrate (as Nitrogen) and Mean Monthly Discharge at DP-001 Outfall

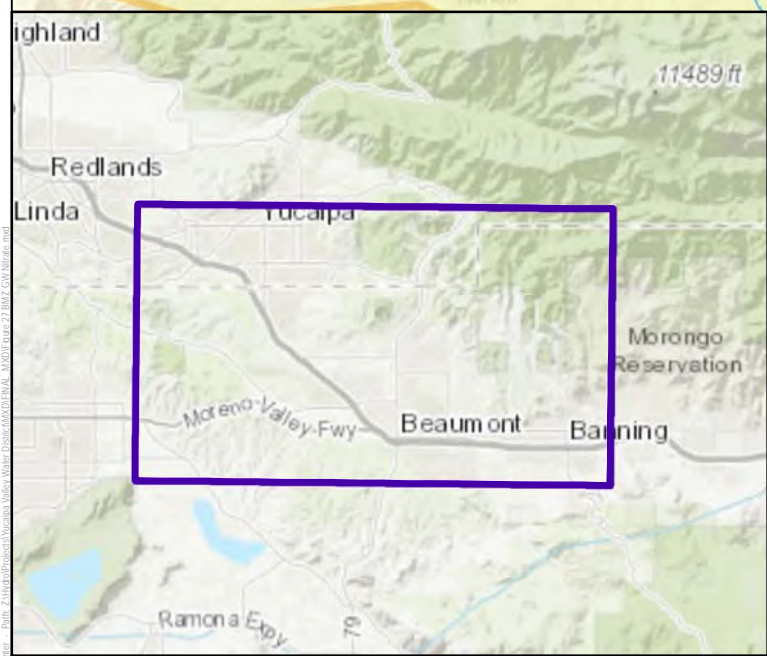
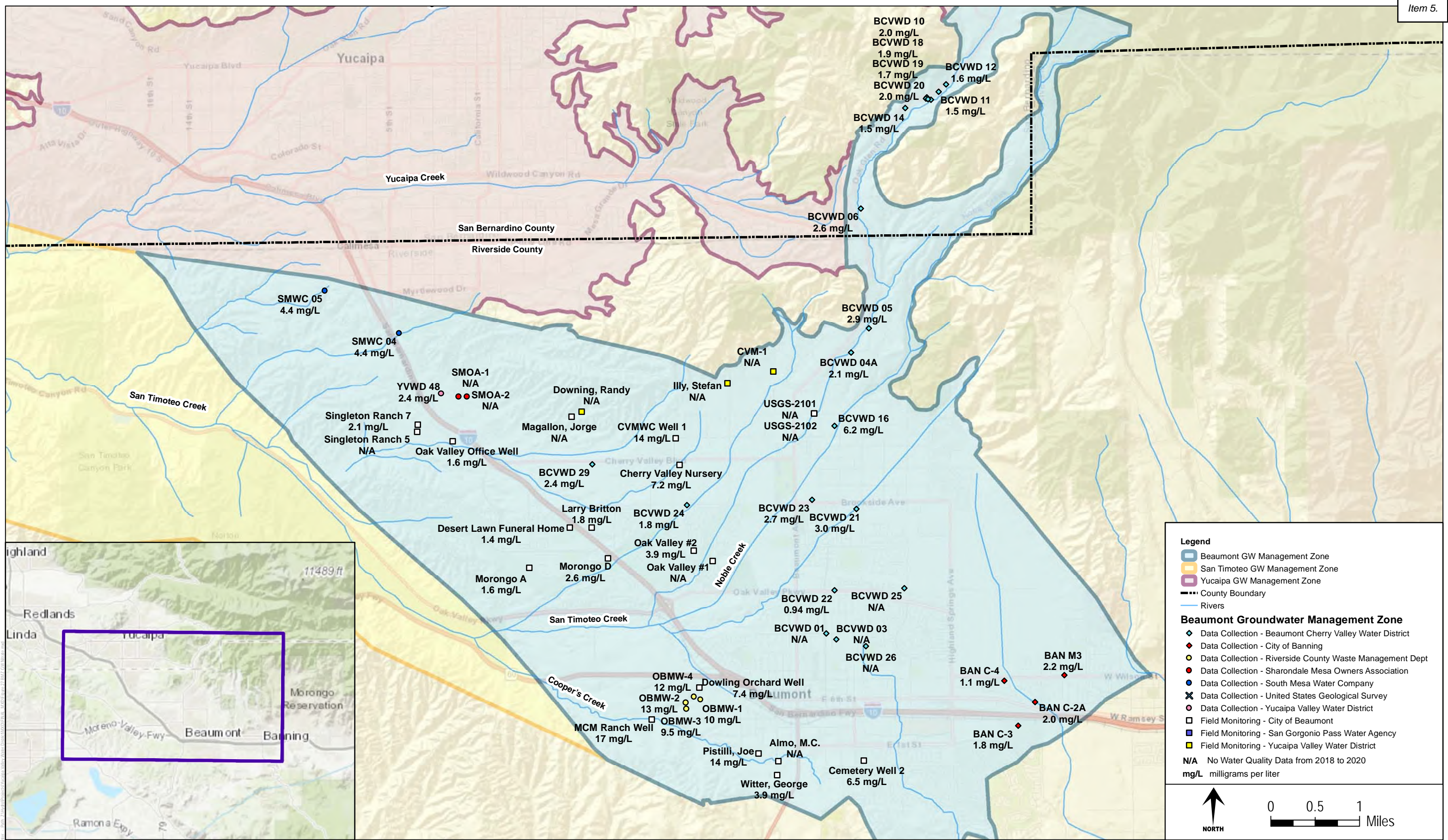




SOURCE: ESRI, Microsoft



FIGURE 35
Maximum Concentrations of Total Dissolved Solids (TDS) in Groundwater in the Beaumont Groundwater Management Zone from 2018 to 2020



SOURCE: ESRI, Microsoft



Maximum Benefit Monitoring Program - 2020 Annual Report

FIGURE 36
Maximum Concentrations of Nitrate (as Nitrogen) in Groundwater in the Beaumont Groundwater Management Zone from 2018 to 2020

TABLES

2020 Annual Maximum Benefits Monitoring Program Report

for the

**Beaumont, San Timoteo and Yucaipa Groundwater
Management Zones**

in the

Upper Santa Ana River Basin

Program	Well Owner	Well Name	Monitoring Type	Meets WL Data Requirement in MBMP? ¹	Meets WQ Data Requirement in MBMP? ²	Reason for No Data Collection from 2018-2020	Water Level Hydrograph Figure No.	Water Quality Hydrograph Figure No.	Replacement Well
Field - YVWD	Bear Valley Mutual Water Company	BV 5th Ave. 1	Water Level	No	NA	Last WL collected in December 2012.	A-1	NA	
Data Collection	City of Redlands	Chicken Hill (CHICKNH4)	Water Level	Yes	NA		A-2	NA	
Data Collection	City of Redlands	Hog Canyon 2 (HOG CYN 2)	Water Level and Quality	Yes	Yes		A-3	B-1	
Data Collection	City of Redlands	Redlands 10	Water Level and Quality	Yes	Yes		A-4	B-2	
Data Collection	City of Redlands	Redlands 11	Water Level	Yes	NA		A-5	NA	
Data Collection	City of Redlands	Redlands 12	Water Level	Yes	NA		A-6	NA	
Data Collection	City of Redlands	Redlands 13	Water Level and Quality	Yes	Yes		A-7	B-3	
Data Collection	City of Redlands	Redlands 14	Water Level	Yes	NA		A-8	NA	
Data Collection	City of Redlands	Redlands 16	Water Level and Quality	Yes	Yes		A-9	B-4	
Data Collection	City of Redlands	Redlands 36	Water Level	Yes	NA		A-10	NA	
Data Collection	City of Redlands	Redlands Heights	Water Level	Yes	NA		A-11	NA	
Data Collection	County of San Bernardino	Y-02	Water Level and Quality	Yes	Yes		A-12	B-5	
Data Collection	County of San Bernardino	Y-03	Water Level and Quality	Yes	Yes		A-13	B-6	
Data Collection	County of San Bernardino	Y-04	Water Level and Quality	Yes	Yes		A-14	B-7	
Data Collection	County of San Bernardino	Y-05	Water Level and Quality	Yes	Yes		A-15	B-8	
Data Collection	County of San Bernardino	Y-08	Water Level and Quality	Yes	Yes		A-16	B-9	
Data Collection	County of San Bernardino	Y-09A	Water Level and Quality	Yes	Yes		A-17	B-10	
Data Collection	County of San Bernardino	Y-09B	Water Level and Quality	Yes	Yes		A-18	B-11	

Program	Well Owner	Well Name	Monitoring Type	Meets WL Data Requirement in MBMP? ¹	Meets WQ Data Requirement in MBMP? ²	Reason for No Data Collection from 2018-2020	Water Level Hydrograph Figure No.	Water Quality Hydrograph Figure No.	Replacement Well
Data Collection	County of San Bernardino	Y-10A	Water Level and Quality	Yes	Yes		A-19	B-12	
Data Collection	County of San Bernardino	Y-10B	Water Level and Quality	Yes	Yes		A-20	B-13	
Data Collection	County of San Bernardino	Y-11A	Water Level and Quality	Yes	Yes		A-21	B-14	
Data Collection	County of San Bernardino	Y-11B	Water Level and Quality	Yes	Yes		A-22	B-15	
Data Collection	County of San Bernardino	Y-12	Water Level and Quality	Yes	Yes		A-23	B-16	
Data Collection	County of San Bernardino	Y-13	Water Level and Quality	Yes	Yes		A-24	B-17	
Data Collection	County of San Bernardino	Y-14	Water Level and Quality	Yes	Yes		A-25	B-18	
Data Collection	County of San Bernardino	Y-15	Water Level and Quality	Yes	Yes		A-26	B-19	
Data Collection	County of San Bernardino	Y-16	Water Level and Quality	Yes	Yes		A-27	B-20	
Data Collection	County of San Bernardino	Y-17	Water Level and Quality	Yes	Yes		A-28	B-21	
Data Collection	County of San Bernardino	Y-18	Water Level and Quality	Yes	Yes		A-29	B-22	
Data Collection	County of San Bernardino	Y-19 / Y-19R	Water Level and Quality	Yes	Yes	Y-19R is a replacement well for Y-19.	A-30	B-23	
Data Collection	County of San Bernardino	Y-21	Water Level and Quality	Yes	Yes		A-31	B-24	
Data Collection	County of San Bernardino	Y-22	Water Level and Quality	Yes	Yes		A-32	B-25	
Data Collection	County of San Bernardino	Y-23	Water Level and Quality	Yes	Yes		A-33	B-26	
Data Collection	County of San Bernardino	Y-24	Water Level and Quality	Yes	Yes		A-34	B-27	
Field - YVWD	Happe Mutual Well Company	GL-1	Water Level	No	NA	Last WL in August 2016.	A-35	NA	Contact Well Owner
Field - YVWD	Lower Yucaipa Water Company	GL-5	Water Level	No	NA	Last WL in Dec. 2014.	A-36	NA	Contact Well Owner
Field - YVWD	Oak Valley Partners	COVINGTON	Water Level	No	NA	Last WL in Dec. 2012.	A-37	NA	Contact Well Owner

Program	Well Owner	Well Name	Monitoring Type	Meets WL Data Requirement in MBMP? ¹	Meets WQ Data Requirement in MBMP? ²	Reason for No Data Collection from 2018-2020	Water Level Hydrograph Figure No.	Water Quality Hydrograph Figure No.	Replacement Well
Field - YVWD	Sierra Nursery	Sierra Nursery Well (GL-3)	Water Level and Quality	No	No	Last WL in Aug. 2014. Last WQ in July 2013.	A-38	B-28	Contact Well Owner
Data Collection	South Mesa Water Company	SMWC 07	Water Level and Quality	Yes	Yes		A-39	B-29	
Data Collection	South Mesa Water Company	SMWC 09	Water Level and Quality	Yes	Yes		A-40	B-30	
Data Collection	South Mesa Water Company	SMWC 11	Water Level and Quality	Yes	Yes		A-41	B-31	
Data Collection	South Mesa Water Company	SMWC 12	Water Level and Quality	Yes	Yes		A-42	B-32	
Data Collection	South Mesa Water Company	SMWC 16	Water Level and Quality	Yes	Yes		A-43	B-33	
Data Collection	United States Geological Survey	6th Street and Ave E 01 (340136117033901)	Water Level and Quality	Yes	No	Last WQ sample collected Jun. 2007.	A-44	B-34	
Data Collection	United States Geological Survey	6th Street and Ave E 02 (340136117033902)	Water Level and Quality	Yes	No	Last NO3-N in June 2007. Last TDS June 2016.	A-45	B-35	
Data Collection	United States Geological Survey	6th Street and Ave E 03 (340136117033903)	Water Level and Quality	Yes	No	Last NO3-N analyzed in June 2007. Last TDS analyzed in June 2019.	A-46	B-36	
Data Collection	United States Geological Survey	6th Street and Ave E 04 (340136117033904)	Water Level and Quality	Yes	No	Last NO3-N analyzed in June 2012. Last TDS analyzed in Aug 2019.	A-47	B-37	
Data Collection	United States Geological Survey	6th Street and Ave E 05 (340136117033905)	Water Level and Quality	Yes	Yes	WQ sample collected in July 2019.	A-48	B-38	
Data Collection	United States Geological Survey	Dunlap Acres 01 (340130117054901)	Water Level and Quality	Yes	No	Last WQ sample analyzed in 2015.	A-49	B-39	
Data Collection	United States Geological Survey	Dunlap Acres 02 (340130117054902)	Water Level and Quality	Yes	No	Last WQ sample analyzed in Sept. 2004.	A-50	B-40	
Data Collection	United States Geological Survey	Dunlap Acres 03 (340130117054903)	Water Level and Quality	Yes	No	Last WQ sample analyzed in 2015.	A-51	B-41	
Data Collection	United States Geological Survey	Dunlap Acres 04 (340130117054904)	Water Level and Quality	Yes	No	Last WQ sample analyzed in 2015.	A-52	B-42	
Data Collection	United States Geological Survey	Dunlap Acres 05 (340130117054905)	Water Level and Quality	Yes	No	Last WQ sample analyzed in 2015.	A-53	B-43	
Data Collection	United States Geological Survey	Equestrian Park on Ave G 01 (340046117020801)	Water Level and Quality	Yes	No	Last WQ sample analyzed in June 2007.	A-54	B-44	
Data Collection	United States Geological Survey	Equestrian Park on Ave G 02 (340046117020802)	Water Level and Quality	Yes	No	Last WQ sample analyzed in Nov. 2006.	A-55	B-45	
Data Collection	United States Geological Survey	Equestrian Park on Ave G 03 (340046117020803)	Water Level and Quality	Yes	No	Last NO3-N sample analyzed in 2013; last TDS sample analyzed in 2014.	A-56	B-46	

Program	Well Owner	Well Name	Monitoring Type	Meets WL Data Requirement in MBMP? ¹	Meets WQ Data Requirement in MBMP? ²	Reason for No Data Collection from 2018-2020	Water Level Hydrograph Figure No.	Water Quality Hydrograph Figure No.	Replacement Well
Data Collection	United States Geological Survey	Equestrian Park on Ave G 04 (340046117020804)	Water Level and Quality	Yes	No	Last NO3-N sample analyzed in 2013; last TDS sample analyzed in 2014.	A-57	B-47	
Data Collection	United States Geological Survey	Wilson Creek 01 (340248117020901)	Water Level and Quality	Yes	No	Last NO3-N sample analyzed in 2009; last TDS sample analyzed in 2014.	A-58	B-48	
Data Collection	United States Geological Survey	Wilson Creek 02 (340248117020902)	Water Level and Quality	Yes	No	Last NO3-N sample analyzed in 2009; last TDS sample analyzed in 2014.	A-59	B-49	
Data Collection	United States Geological Survey	Wilson Creek 03 (340248117020903)	Water Level and Quality	Yes	No	Last NO3-N sample analyzed in 2010; last TDS sample analyzed in 2014.	A-60	B-50	
Data Collection	United States Geological Survey	Wilson Creek 04 (340248117020904)	Water Level and Quality	Yes	No	Last NO3-N sample analyzed in 2011; last TDS sample analyzed in 2014.	A-61	B-51	
Data Collection	Western Heights Water Company	WHWC 02A	Water Level and Quality	Yes	Yes		A-62	B-52	
Data Collection	Western Heights Water Company	WHWC 10	Water Level and Quality	Yes	Yes		A-63	B-53	
Data Collection	Western Heights Water Company	WHWC 11	Water Level and Quality	Yes	Yes		A-64	B-54	
Data Collection	Western Heights Water Company	WHWC 12	Water Level and Quality	Yes	Yes		A-65	B-55	
Data Collection	Western Heights Water Company	WHWC 14	Water Level and Quality	Yes	Yes		A-66	B-56	
Field - YVWD	Yucaipa Valley Water District	SBVMWD Wilson B	Water Level	No	NA	Last WL in December 2016. YVWD notes "can't sound" at this well in 2020.	A-67	NA	YVWD-44, YVWD-53
Field - YVWD	Yucaipa Valley Water District	YVWD 02	Water Level and Quality	Yes	Yes		A-68	B-57	
Field - YVWD	Yucaipa Valley Water District	YVWD 05	Water Level	Yes	NA		A-69	NA	
Field - YVWD	Yucaipa Valley Water District	YVWD 06	Water Level	Yes	NA		A-70	NA	
Field - YVWD	Yucaipa Valley Water District	YVWD 07	Water Level	Yes	NA		A-71	NA	
Field - YVWD	Yucaipa Valley Water District	YVWD 10	Water Level	Yes	NA		A-72	NA	
Field - YVWD	Yucaipa Valley Water District	YVWD 12	Water Level and Quality	Yes	Yes		A-73	B-58	
Field - YVWD	Yucaipa Valley Water District	YVWD 13	Water Level	Yes	NA		A-74	NA	
Field - YVWD	Yucaipa Valley Water District	YVWD 14	Water Level and Quality	Yes	Yes	NO3-N analyzed in 2019. TDS analyzed in 2017.	A-75	B-59	
Field - YVWD	Yucaipa Valley Water District	YVWD 16	Water Level and Quality	Yes	Yes	NO3-N analyzed in 2019. TDS analyzed in 2017.	A-76	B-60	

Program	Well Owner	Well Name	Monitoring Type	Meets WL Data Requirement in MBMP? ¹	Meets WQ Data Requirement in MBMP? ²	Reason for No Data Collection from 2018-2020	Water Level Hydrograph Figure No.	Water Quality Hydrograph Figure No.	Replacement Well
Field - YVWD	Yucaipa Valley Water District	YVWD 18	Water Level and Quality	Yes	Yes		A-77	B-61	
Field - YVWD	Yucaipa Valley Water District	YVWD 24	Water Level and Quality	Yes	Yes		A-78	B-62	
Field - YVWD	Yucaipa Valley Water District	YVWD 25	Water Level and Quality	Yes	No	TDS and NO3-N analyzed in 2016.	A-79	B-63	
Field - YVWD	Yucaipa Valley Water District	YVWD 26	Water Quality	NA	No	Last NO3-N Sept. 2014.	NA	B-64	
Field - YVWD	Yucaipa Valley Water District	YVWD 27	Water Level and Quality	Yes	Yes		A-80	B-65	
Field - YVWD	Yucaipa Valley Water District	YVWD 27A	Water Level	Yes	NA		A-81	NA	
Field - YVWD	Yucaipa Valley Water District	YVWD 28	Water Level	Yes	NA		A-82	NA	
Field - YVWD	Yucaipa Valley Water District	YVWD 37	Water Level and Quality	Yes	Yes		A-83	B-66	
Field - YVWD	Yucaipa Valley Water District	YVWD 43 (GL-2)	Water Level	Yes	NA		A-84	NA	
Field - YVWD	Yucaipa Valley Water District	YVWD 44	Water Level and Quality	Yes	Yes		A-85	B-67	
Field - YVWD	Yucaipa Valley Water District	YVWD 46	Water Level and Quality	Yes	Yes		A-86	B-68	
Field - YVWD	Yucaipa Valley Water District	YVWD 49	Water Level	Yes	NA		A-87	NA	
Field - YVWD	Yucaipa Valley Water District	YVWD 50	Water Level	No	NA	Last WL measurement July 2015; YVWD has noted that they "can not sound" a WL at this well.	A-88	NA	YVWD-6
Field - YVWD	Yucaipa Valley Water District	YVWD 53	Water Level and Quality	Yes	Yes		A-89	B-69	
Field - YVWD	Yucaipa Valley Water District	YVWD 55	Water Level and Quality	Yes	Yes		A-90	B-70	
Field - YVWD	Yucaipa Valley Water District	YVWD 56	Water Level and Quality	Yes	Yes		A-91	B-71	
Field - YVWD	Yucaipa Valley Water District	YVWD 61	Water Quality	NA	Yes		NA	B-72	

Notes:

WL = Water Level

WQ = Water Quality

¹ = Maximum Benefits Monitoring Program (MBMP) requirements are minimum two measurements per year and at static conditions.

² = Water quality sample collected and analyzed at minimum once every 3 years.

Program	Well Owner	Well Name	Monitoring Type	Meets WL Data Requirement in MBMP? ¹	Meets WQ Data Requirement in MBMP? ²	Reason for No Data Collection from 2018-2020	Water Level Hydrograph Figure No.	Water Quality Hydrograph Figure No.	Replacement Well
YVWD	Chino Investors Ltd	GL-8	Water Level	Yes	NA		F-1	NA	
City of Beaumont	City of Beaumont	Heartland Well	Water Level and Quality	Yes	Yes	Last WQ sample in April 2018.	F-2	G-1	
City of Beaumont	City of Beaumont	San Tim-2B/1	Water Quality	NA	Yes		NA	G-2	
City of Beaumont	City of Beaumont	San Tim-2B/2	Water Quality	NA	Yes		NA	G-3	
City of Beaumont	City of Beaumont	SanTim-1	Water Quality	NA	Yes		NA	G-4	
Data Collection	County of San Bernardino	ST-01	Water Quality	NA	No	Well abandoned since at least 2005.	NA	NA	ST-02
Data Collection	County of San Bernardino	ST-02	Water Level and Quality	Yes	Yes		F-3	G-5	
Data Collection	County of San Bernardino	ST-03	Water Level and Quality	Yes	Yes		F-4	G-6	
Data Collection	County of San Bernardino	ST-05C	Water Level and Quality	Yes	Yes		F-5	G-7	
Data Collection	County of San Bernardino	ST-07	Water Quality	NA	No	Well abandoned since at least 2005. Last WQ sample collected Mar. 2003.	NA	G-8	ST-07A
Data Collection	County of San Bernardino	ST-07A	Water Level and Quality	Yes	Yes		F-6	G-9	
Data Collection	County of San Bernardino	ST-08	Water Level and Quality	Yes	Yes		F-7	G-10	
Data Collection	County of San Bernardino	ST-10	Water Level and Quality	Yes	Yes		F-8	G-11	
Data Collection	County of San Bernardino	ST-11	Water Level and Quality	No	No	Abandoned May 19, 2016	F-9	G-12	ST-08
Data Collection	County of San Bernardino	ST-12	Water Level and Quality	Yes	Yes		F-10	G-13	
City of Beaumont	East Valley Golf Club	East Valley Golf Club	Water Level	Yes	NA		F-11	NA	
City of Beaumont	El Casco Lake Ranch	El Casco Lake Ranch ONE	Water Level	Yes	NA		F-12	NA	
City of Beaumont	Hildebrand, Chester F.	Hildebrand, Chester F.	Water Level	No	NA	Last WL data collected Sept. 2010. Well no longer exists.	F-13	NA	Contact Well Owner
YVWD	Hudson, O.	GL-6	Water Level and Quality	No	No	Last WL data collected Dec. 2014. Last WQ Dec. 2015. No further access granted by owner.	F-14	G-14	Contact Well Owner
YVWD	Martie Wells	Deep Well	Water Quality	NA	Yes		NA	G-15	
Data Collection	Riverside County Waste Management Department	San Tim Badlands BH-20	Water Level and Quality	No	No	No WL data collected in 2020. No WQ data since 2008 due to questions of well integrity.	F-15	G-16	BH-22
Data Collection	Riverside County Waste Management Department	San Tim Badlands BH-21	Water Level and Quality	No	No	No WL data collected in 2020, well was dry in May and July 2019. Last WQ data August 2017.	F-16	G-17	BH-11
Data Collection	Riverside County Waste Management Department	San Tim Badlands BH-24	Water Level and Quality	No	Yes	No WL data collected in 2020.	F-17	G-18	Check for Data

Program	Well Owner	Well Name	Monitoring Type	Meets WL Data Requirement in MBMP? ¹	Meets WQ Data Requirement in MBMP? ²	Reason for No Data Collection from 2018-2020	Water Level Hydrograph Figure No.	Water Quality Hydrograph Figure No.	Replacement Well
City of Beaumont	Rutherford, Mark	Fishermen's Retreat 1	Water Quality	NA	Yes	Owner permitted access in May 2019.	NA	G-19	
City of Beaumont	Rutherford, Mark	Fishermen's Retreat 2	Water Level and Quality	No	Yes	No DTW measured. Access not granted by owner in 2020.	F-18	G-20	Contact Well Owner
Data Collection	San Geronio Pass Water Agency/USGS	#427, Agri-Empire	Water Level	No	NA	No DTW measured. Artesian flow.	F-19	NA	Locate Well
Data Collection	San Geronio Pass Water Agency/USGS	#428, Agri-Empire #2	Water Level	No	NA	No DTW measured. Artesian flow.	F-20	NA	Locate Well
City of Beaumont	Schwenckert, Henry W. and Jewel	1	Water Level and Quality	Yes	Yes		F-21	G-21	
YVWD	Yucaipa Valley Water District	YVWD GMMW-1	Water Level	Yes	Yes		F-22	G-22	
YVWD	Yucaipa Valley Water District	YVWD GMMW-2	Water Level and Quality	Yes	Yes		F-23	G-23	
YVWD	Yucaipa Valley Water District	YVWD GMMW-3	Water Level and Quality	Yes	NA		F-24	NA	
YVWD	Yucaipa Valley Water District	YVWD GMMW-4	Water Level and Quality	Yes	Yes		F-25	G-24	
YVWD	Yucaipa Valley Water District	YVWD GMMW-5A	Water Level and Quality	Yes	Yes		F-26	G-25	
YVWD	Yucaipa Valley Water District	YVWD GMMW-5B	Water Level and Quality	Yes	Yes		F-27	G-26	
YVWD	Yucaipa Valley Water District	YVWD GMMW-5C	Water Quality	NA	Yes	Well is artesian.	NA	G-27	
YVWD	Yucaipa Valley Water District	YVWD OW-1P	Water Level	Yes	NA		F-28	NA	
YVWD	Yucaipa Valley Water District	YVWD OW-1T	Water Level	No	NA	Well no longer exists.	F-29	NA	YVWD OW-1P
YVWD	Yucaipa Valley Water District	YVWD OW-2P	Water Level	No	NA	Well destroyed in March 2019.	F-30	NA	YVWD GMMW-1
YVWD	Yucaipa Valley Water District	YVWD OW-3P	Water Level	Yes	NA		F-31	NA	
YVWD	Yucaipa Valley Water District	YVWD OW-3T	Water Level	No	NA	Last WL measurement 11/24/2014; well no longer exists.	NA	NA	YVWD OW-3P

Notes:

WL = Water Level

WQ = Water Quality

¹ = Maximum Benefits Monitoring Program (MBMP) requirements are minimum two measurements per year and at static conditions.

² = Water quality sample collected and analyzed at minimum once every 3 years.

Program	Well Owner	Well Name	Monitoring Type	Meets WL Data Requirement in MBMP? ¹	Meets WQ Data Requirement in MBMP? ²	Reason for No Data Collection from 2018-2020	Water Level Hydrograph Figure Number	Water Quality Hydrograph Figure No.	Replacement Well
Field - Beaumont	Almo, M.C.	Almo, M.C.	Water Level and Quality	No	No	Last WL Dec 2014. Last WQ sample Dec. 2014. Property is abandoned.	M-1	N-1	Joe Pistilli
Field - Pass Agency	Arnett, F.	Arnett, F.	Water Level	Yes	NA		M-2	NA	
Field - Pass Agency	BCV Rec & Parks	BCV Rec & Parks	Water Level	Yes	NA		M-3	NA	
Field - Pass Agency	Beaumont Cemetery	Cemetery Well 1	Water Level	Yes	NA		M-4	NA	
Field - Beaumont	Beaumont Cemetery	Cemetery Well 2	Water Level and Quality	No	Yes	One WL measurement collected in 2020 due to lack of sounding port.	M-5	N-2	
Data Collection	Beaumont Cherry Valley Water District	BCVWD-01	Water Quality	NA	No	Last WQ sample collected in Dec. 2012.	NA	N-3	BCVWD-22
Data Collection	Beaumont Cherry Valley Water District	BCVWD-02	Water Level	Yes	NA		M-6	NA	
Data Collection	Beaumont Cherry Valley Water District	BCVWD-03	Water Quality	NA	No	Last WQ sample collected in Oct. 2013.	NA	N-4	BCVWD-22
Data Collection	Beaumont Cherry Valley Water District	BCVWD-04A	Water Level and Quality	Yes	Yes		M-7	N-5	
Data Collection	Beaumont Cherry Valley Water District	BCVWD-05	Water Level and Quality	No	Yes	No static WL in 2020 (dynamic only).	M-8	N-6	
Data Collection	Beaumont Cherry Valley Water District	BCVWD-06	Water Level and Quality	Yes	Yes		M-9	N-7	
Data Collection	Beaumont Cherry Valley Water District	BCVWD-10	Water Level and Quality	Yes	Yes		M-10	N-8	
Data Collection	Beaumont Cherry Valley Water District	BCVWD-11	Water Level and Quality	Yes	Yes		M-11	N-9	
Data Collection	Beaumont Cherry Valley Water District	BCVWD-12	Water Level and Quality	No	Yes	No static WL in 2020 (dynamic only).	M-12	N-10	
Data Collection	Beaumont Cherry Valley Water District	BCVWD-13	Water Level	Yes	NA		M-13	NA	
Data Collection	Beaumont Cherry Valley Water District	BCVWD-14	Water Level and Quality	Yes	Yes		M-14	N-11	
Data Collection	Beaumont Cherry Valley Water District	BCVWD-16	Water Quality	NA	Yes		NA	N-12	
Data Collection	Beaumont Cherry Valley Water District	BCVWD-18	Water Level and Quality	Yes	Yes		M-15	N-13	
Data Collection	Beaumont Cherry Valley Water District	BCVWD-19	Water Level and Quality	Yes	Yes		M-16	N-14	

Program	Well Owner	Well Name	Monitoring Type	Meets WL Data Requirement in MBMP? ¹	Meets WQ Data Requirement in MBMP? ²	Reason for No Data Collection from 2018-2020	Water Level Hydrograph Figure Number	Water Quality Hydrograph Figure No.	Replacement Well
Data Collection	Beaumont Cherry Valley Water District	BCVWD-20	Water Level and Quality	No	Yes	Only one static WL measurement in 2020.	M-17	N-15	
Data Collection	Beaumont Cherry Valley Water District	BCVWD-21	Water Level and Quality	Yes	Yes		M-18	N-16	
Data Collection	Beaumont Cherry Valley Water District	BCVWD-22	Water Quality	NA	Yes		NA	N-17	
Data Collection	Beaumont Cherry Valley Water District	BCVWD-23	Water Level and Quality	Yes	Yes		M-19	N-18	
Data Collection	Beaumont Cherry Valley Water District	BCVWD-24	Water Quality	NA	Yes		NA	N-19	
Data Collection	Beaumont Cherry Valley Water District	BCVWD-25	Water Level and Quality	Yes	No	Last NO3-N sample Oct. 2013. Last TDS sample Dec. 2012.	M-20	N-20	BCVWD-22 (WQ only)
Data Collection	Beaumont Cherry Valley Water District	BCVWD-26	Water Level and Quality	Yes	No	Last WQ sample Oct. 2014.	M-21	N-21	BCVWD-22 (WQ only)
Data Collection	Beaumont Cherry Valley Water District	BCVWD-29	Water Level and Quality	Yes	Yes	Last TDS sample 2018.	M-22	N-22	
Data Collection	Beaumont Cherry Valley Water District	BCVWD MW-1	Water Level	Yes	NA		M-23	NA	
Data Collection	Beaumont Cherry Valley Water District	BCVWD MW-2	Water Level	Yes	NA		M-24	NA	
Field - Pass Agency	Beaumont Cherry Valley Water District	Bonita Vista #1	Water Level	No	NA	Well Dry since Nov 2016; "Failed well. No longer measuring."	M-25	NA	Bonita Vista #3
Field - Pass Agency	Beaumont Cherry Valley Water District	Bonita Vista #3	Water Level	Yes	NA		M-26	NA	
Field - Pass Agency	Beaumont Cherry Valley Water District	BVM-2	Water Level	Yes	NA		M-27	NA	
Field - Pass Agency	Beckman, Walt	Beckman, Walt	Water Level	No	NA	WL data no longer collected. Well "discontinued" in 2017.	M-28	NA	Michelle Delph
Field - Beaumont	Britton, Larry	Britton, Larry	Water Quality	NA	Yes		NA	N-23	
Field - Pass Agency	Bryan, Paul	Bryan, Paul	Water Level	No	NA	Only one static WL measurement in 2020.	M-29	NA	
Field - Multiple	California Oak Valley Golf And Resort Llc	Oak Valley #1	Water Level and Quality	No	No	Well was noted as "Dry" in 2019.	M-30	N-24	
Field - Beaumont	California Oak Valley Golf And Resort Llc	Oak Valley #2	Water Quality	NA	Yes		NA	N-25	
Field - YVWD	Cherry Valley Mutual Water Co.	Cherry Valley MWC CVM-1	Water Quality	NA	Yes		NA	N-26	

Program	Well Owner	Well Name	Monitoring Type	Meets WL Data Requirement in MBMP? ¹	Meets WQ Data Requirement in MBMP? ²	Reason for No Data Collection from 2018-2020	Water Level Hydrograph Figure Number	Water Quality Hydrograph Figure No.	Replacement Well
Field - Multiple	Cherry Valley Mutual Water Co.	Cherry Valley MWC Well 1	Water Level and Quality	Yes	No	Last WQ in 2013.	M-31	N-27	TBD (WQ only)
Field - Multiple	Cherry Valley Nursery	Cherry Valley Nursery	Water Level and Quality	Yes	Yes		M-32	N-28	
Data Collection	City of Banning	BAN C-2A	Water Level and Quality	Yes	Yes		M-33	N-29	
Data Collection	City of Banning	BAN C-3	Water Level and Quality	Yes	No	Last TDS sample Mar 2017.	M-34	N-30	
Data Collection	City of Banning	BAN C-4	Water Level and Quality	Yes	Yes		M-35	N-31	
Data Collection	City of Banning	BAN M2	Water Level	No	NA	No longer measured by City. Resides in same lot as M9.	M-36	NA	BAN M9
Data Collection	City of Banning	BAN M3	Water Level and Quality	Yes	Yes		M-37	N-32	
Data Collection	City of Banning	BAN M9	Water Level	Yes	NA		M-38	NA	
Field - Pass Agency	County of Riverside	County of Riverside #608	Water Level	Yes	NA		M-39	NA	
Field - Beaumont	Cunningham, Ruth	Cunningham, Ruth	Water Level	Yes	NA		M-40	NA	
Field - Pass Agency	Delph, Michelle	Delph, Michelle	Water Level	Yes	NA		M-41	NA	
Field - Beaumont	Desert Lawn Funeral Home and Memorial	Desert Lawn Funeral Home and Memorial	Water Quality	NA	Yes		NA	N-33	
Field - Beaumont	Dowling, Francis M	Dowling, Francis M #2	Water Level	Yes	NA		M-42	NA	
Field - Multiple	Dowling, Francis M	Dowling Orchard Well	Water Level and Quality	Yes	Yes		M-43	N-34	
Field - YVWD	Downing, Randy	Downing, Randy	Water Quality	NA	No	Last WQ in 2010.	NA	N-35	
Field - Beaumont	Downing, Randy	Randy Downing Well	Water Level	No	NA	Last WL measurement in 2017, new pump configuration prevents WL measurement.	M-44	NA	
Field - Beaumont	Garnar, Wilman, J.	Garnar, Wilman, J.	Water Level	Yes	NA		M-45	NA	
Field - Beaumont	Hallana Equities c/o B. Storm	Hallana Equities	Water Level	No	NA	WL too deep to measure, may be dry.	M-46	NA	TBD
Field - Pass Agency	Hallana Equities c/o B. Storm	Hallana Equities No. 1	Water Level	No	NA	Well has been "DRY" since Nov. 2009.	M-47	NA	TBD

Program	Well Owner	Well Name	Monitoring Type	Meets WL Data Requirement in MBMP? ¹	Meets WQ Data Requirement in MBMP? ²	Reason for No Data Collection from 2018-2020	Water Level Hydrograph Figure Number	Water Quality Hydrograph Figure No.	Replacement Well
Field - Pass Agency	Hewitt, Frank	2	Water Level	No	NA	Only one static WL measurement in 2020.	M-48	NA	
Field - Beaumont	Hewitt, Patricia	NO. 3	Water Level	No	NA	Access denied by owner.	M-49	NA	Hewitt, Frank
Field - YVWD	Illy, Stefan	Illy, Stefan #2	Water Quality	NA	No	Last WQ sample Dec. 2013.	NA	N-36	TBD
Field - Pass Agency	Illy, Stefan	Illy, Stefan #1	Water Level	Yes	NA		M-50	NA	
Field - Beaumont	Kramer, Don	Kramer, Don	Water Level	No	NA	WL too deep to measure, may be dry.	M-51	NA	YVWD-34
Field - Pass Agency	Lamay, H.	Lamay, H.	Water Level	Yes	NA		M-52	NA	
Field - Beaumont	Magallon, Jorge	Magallon, Jorge	Water Level and Quality	No	No	Last WL Dec 2014. Last WQ sample Dec. 2013. Unable to contact owner since 2017.	M-53	N-37	
Field - Beaumont	MCM Poultry	MCM Poultry Ranch Well	Water Level and Quality	Yes	Yes		M-54	N-38	
Field - Beaumont	Morongo	Morongo Well A	Water Quality	NA	Yes		NA	N-39	
Field - Pass Agency	Morongo	Morongo Well C	Water Level	Yes	NA		M-55	NA	
Field - Beaumont	Morongo	Morongo Well D	Water Quality	NA	Yes		NA	N-40	
Field - Multiple	Oak Valley Partners	Oak Valley Office Well	Water Level and Quality	Yes	Yes		M-56	N-41	
Field - Multiple	Oak Valley Partners	SINGLETON RANCH 5	Water Level and Quality	Yes	No	Last WQ sample Oct. 2009. Pump inoperable.	M-57	N-42	SR-7 (WQ only)
Field - Multiple	Oak Valley Partners	Singleton Ranch 7	Water Level and Quality	Yes	Yes		M-58	N-43	
Field - Pass Agency	Pardee Well (No. of Wilson)		Water Level	No	NA	Well was destroyed in 2018.	M-59	NA	BAN C-4
Field - Beaumont	Pistilli, Joe	Pistilli, Joe	Water Level and Quality	Yes	Yes		M-60	N-44	
Field - Beaumont	Polack, Maureen Jurado	#569 Jurado	Water Level	Yes	NA		M-61	NA	
Field - Pass Agency	Posey, Gary	#106 Bo Un, Kim	Water Level	No	NA	Well dry Nov 2019.	M-62	NA	MORENO 6
Field - Pass Agency	Presley Co.	335519116561701	Water Level	No	NA	Only one static WL measurement in 2020.	M-63	NA	

Program	Well Owner	Well Name	Monitoring Type	Meets WL Data Requirement in MBMP? ¹	Meets WQ Data Requirement in MBMP? ²	Reason for No Data Collection from 2018-2020	Water Level Hydrograph Figure Number	Water Quality Hydrograph Figure No.	Replacement Well
Field - Pass Agency	Rancho Calimesa	3	Water Level	No	NA	Only one static WL measurement in 2020.	M-64	NA	
Data Collection	Riverside County Waste Management Department	RCWMD MW-1	Water Level	No	NA	Well Abandoned April 2017	M-65	NA	Joe Pistilli
Data Collection	Riverside County Waste Management Department	RCWMD MW-2	Water Level	No	NA	Well Abandoned April 2017	M-66	NA	Joe Pistilli
Data Collection	Riverside County Waste Management Department	RCWMD MW-3	Water Level	No	NA	Well Abandoned April 2017	M-67	NA	Joe Pistilli
Data Collection	Riverside County Waste Management Department	RCWMD MW-4	Water Level	No	NA	Well Abandoned April 2017	M-68	NA	Joe Pistilli
Data Collection	Riverside County Waste Management Department	RCWMD MW-5	Water Level	No	NA	Well Abandoned April 2017	M-69	NA	Joe Pistilli
Data Collection	Riverside County Waste Management Department	RCWMD MW-6	Water Level	No	NA	Well Abandoned April 2017	M-70	NA	Joe Pistilli
Data Collection	Riverside County Waste Management Department	RCWMD MW-7	Water Level	No	NA	Well Abandoned April 2017	M-71	NA	Joe Pistilli
Data Collection	Riverside County Waste Management Department	RCWMD MW-8	Water Level	No	NA	Well Abandoned April 2017	M-72	NA	Joe Pistilli
Data Collection	Riverside County Waste Management Department	RCWMD MW-9	Water Level	No	NA	Well Abandoned April 2017	M-73	NA	Joe Pistilli
Data Collection	Riverside County Waste Management Department	RCWMD OBMW-1	Water Level and Quality	No	Yes	No WL reported for 2020.	M-74	N-45	
Data Collection	Riverside County Waste Management Department	RCWMD OBMW-2	Water Level and Quality	No	Yes	No WL reported for 2020.	M-75	N-46	
Data Collection	Riverside County Waste Management Department	RCWMD OBMW-3	Water Level and Quality	No	Yes	No WL reported for 2020.	M-76	N-47	
Data Collection	Riverside County Waste Management Department	RCWMD OBMW-4	Water Level and Quality	No	Yes	No WL reported for 2020.	M-77	N-48	
Field - Pass Agency	San Gorgonio Pass Water Agency	SGPWA 335714116565001	Water Level	Yes	NA		M-78	NA	
Field - Pass Agency	San Gorgonio Pass Water Agency	SGPWA 335714116565002	Water Level	Yes	NA		M-79	NA	
Field - Pass Agency	San Gorgonio Pass Water Agency	SGPWA 335714116565003	Water Level	Yes	NA		M-80	NA	
Field - Pass Agency	San Gorgonio Pass Water Agency	SGPWA TW-1	Water Level	Yes	NA		M-81	NA	
Field - Pass Agency	Schuelke Real Estate	#493 Schuelke R	Water Level	Yes	NA		M-82	NA	

Program	Well Owner	Well Name	Monitoring Type	Meets WL Data Requirement in MBMP? ¹	Meets WQ Data Requirement in MBMP? ²	Reason for No Data Collection from 2018-2020	Water Level Hydrograph Figure Number	Water Quality Hydrograph Figure No.	Replacement Well
Data Collection	Sharondale Mesa Owners Association	1	Water Level and Quality	No	No	Last WL in Apr. 2015. Last NO3 sample Oct. 2014; last TDS sample Feb. 2011.	M-83	N-49	MORENO 6
Data Collection	Sharondale Mesa Owners Association	2	Water Level and Quality	No	No	Last WL Dec 2014. Last NO3 sample Jan. 2014; last TDS sample Feb. 2011.	M-84	N-50	MORENO 6
Data Collection	South Mesa Water Company	SMWC 01	Water Level	Yes	NA		M-85	NA	
Data Collection	South Mesa Water Company	SMWC 03	Water Level	Yes	NA		M-86	NA	
Data Collection	South Mesa Water Company	SMWC 04	Water Level and Quality	Yes	Yes		M-87	N-51	
Data Collection	South Mesa Water Company	SMWC 05	Water Level and Quality	Yes	Yes		M-88	N-52	
Field - Pass Agency	Sunny Cal Egg Ranch	37101 CHERRY	Water Level	Yes	NA		M-89	NA	
Field - Beaumont	Sunny-cal Egg & Poultry Company	1	Water Level	No	NA	Property abandoned. Unable to access well.	M-90	NA	37101 CHERRY
Field - Beaumont	Sunny-cal Egg & Poultry Company	2	Water Level	No	NA	Property abandoned. Unable to access well.	M-91	NA	BCVWD 29
Field - Pass Agency	Suzy Q Ranch	MORENO 6	Water Level	Yes	NA		M-92	NA	
Data Collection	United States Geological Survey	335543116564801	Water Level	Yes	NA		M-93	NA	
Data Collection	United States Geological Survey	335834116582101	Water Level and Quality	No	No	Well dry since May 2017. Last WQ sample collected in 2013.	M-94	N-53	SGPWA TW-1 (WL) BCVWD-16 (WQ)
Data Collection	United States Geological Survey	335834116582102	Water Level and Quality	No	No	Well dry since May 2017. Last WQ sample collected in 2013.	M-95	N-54	SGPWA TW-1 (WL) BCVWD-16 (WQ)
Data Collection	United States Geological Survey	335838116582504	Water Level	No	NA	Well Dry since Aug 2016.	M-96	NA	BVM-2
Field - Beaumont	United States Geological Survey	335902116580901	Water Level	Yes	NA		M-97	NA	
Field - Beaumont	United States Geological Survey	335903116580902	Water Level	Yes	NA		M-98	NA	
Field - Beaumont	Unknown	NA_1208640	Water Level	Yes	NA		M-99	NA	
Field - Beaumont	Unknown	NA_1221611	Water Level	No	NA	No WL measurements since 2017, property abandoned.	M-100	NA	BCVWD 29
Field - Beaumont	Witter, George G.	NA_1206892	Water Level and Quality	No	Yes	Last WL Dec 2014.	M-101	N-55	

Program	Well Owner	Well Name	Monitoring Type	Meets WL Data Requirement in MBMP? ¹	Meets WQ Data Requirement in MBMP? ²	Reason for No Data Collection from 2018-2020	Water Level Hydrograph Figure Number	Water Quality Hydrograph Figure No.	Replacement Well
Data Collection	Yucaipa Valley Water District	YVWD 34	Water Level	Yes	NA		M-102	NA	
Data Collection	Yucaipa Valley Water District	YVWD 48	Water Level and Quality	Yes	Yes		M-103	N-56	

Notes:

WL = Water Level

WQ = Water Quality

¹ = Maximum Benefits Monitoring Program (MBMP) requirements are minimum two measurements per year and at static conditions.

² = Water quality sample collected and analyzed at minimum once every 3 years.

APPENDICES A - I

2020 Annual Maximum Benefits Monitoring Program Report

for the

**Beaumont, San Timoteo and Yucaipa Groundwater
Management Zones**

in the

Upper Santa Ana River Basin

APPENDIX A

**Hydrographs of Groundwater Elevations at Wells in the
Yucaipa Groundwater Management Zone**

APPENDIX A

Groundwater Elevation Hydrographs for the Yucaipa Groundwater Management Zone

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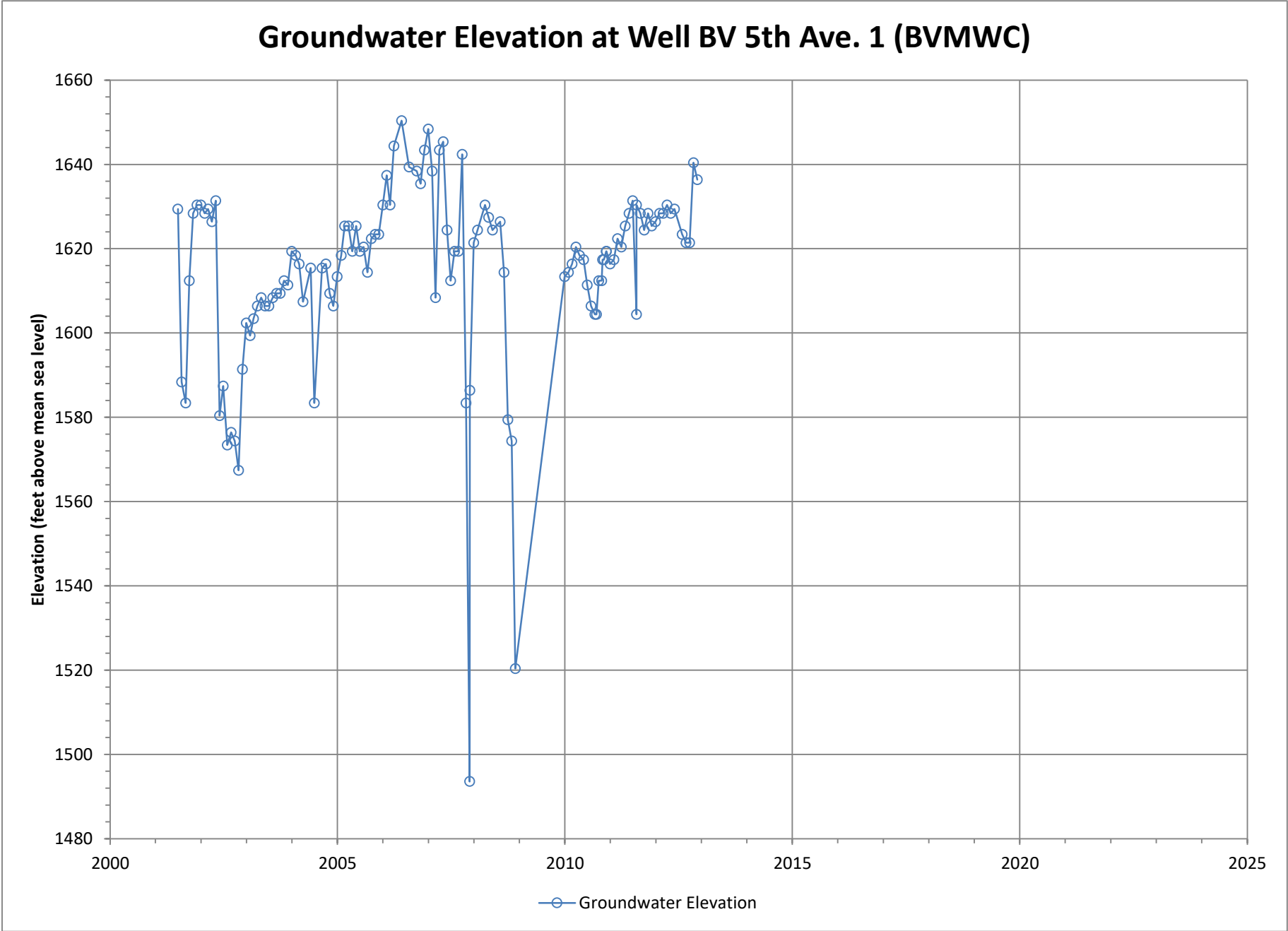
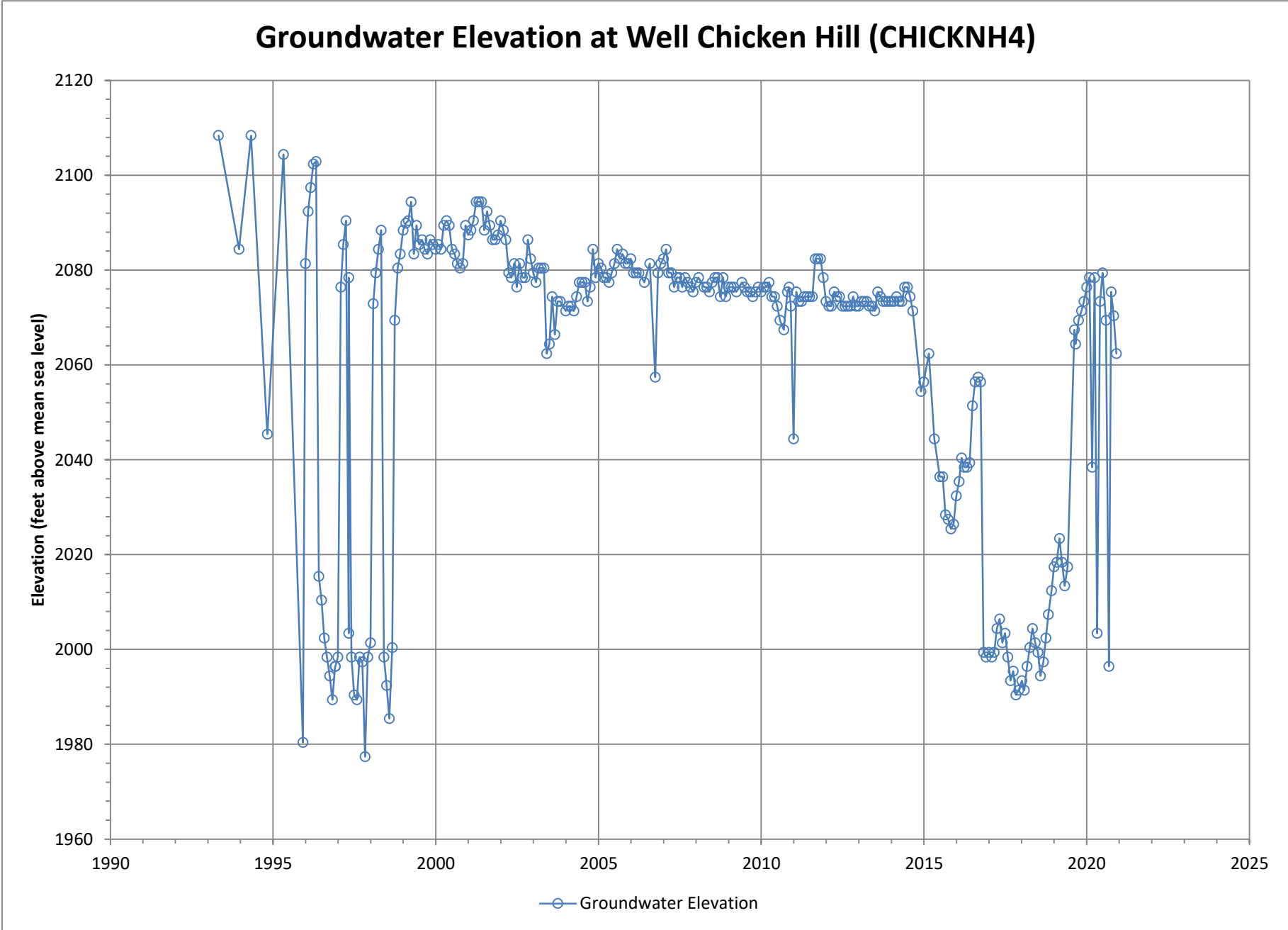
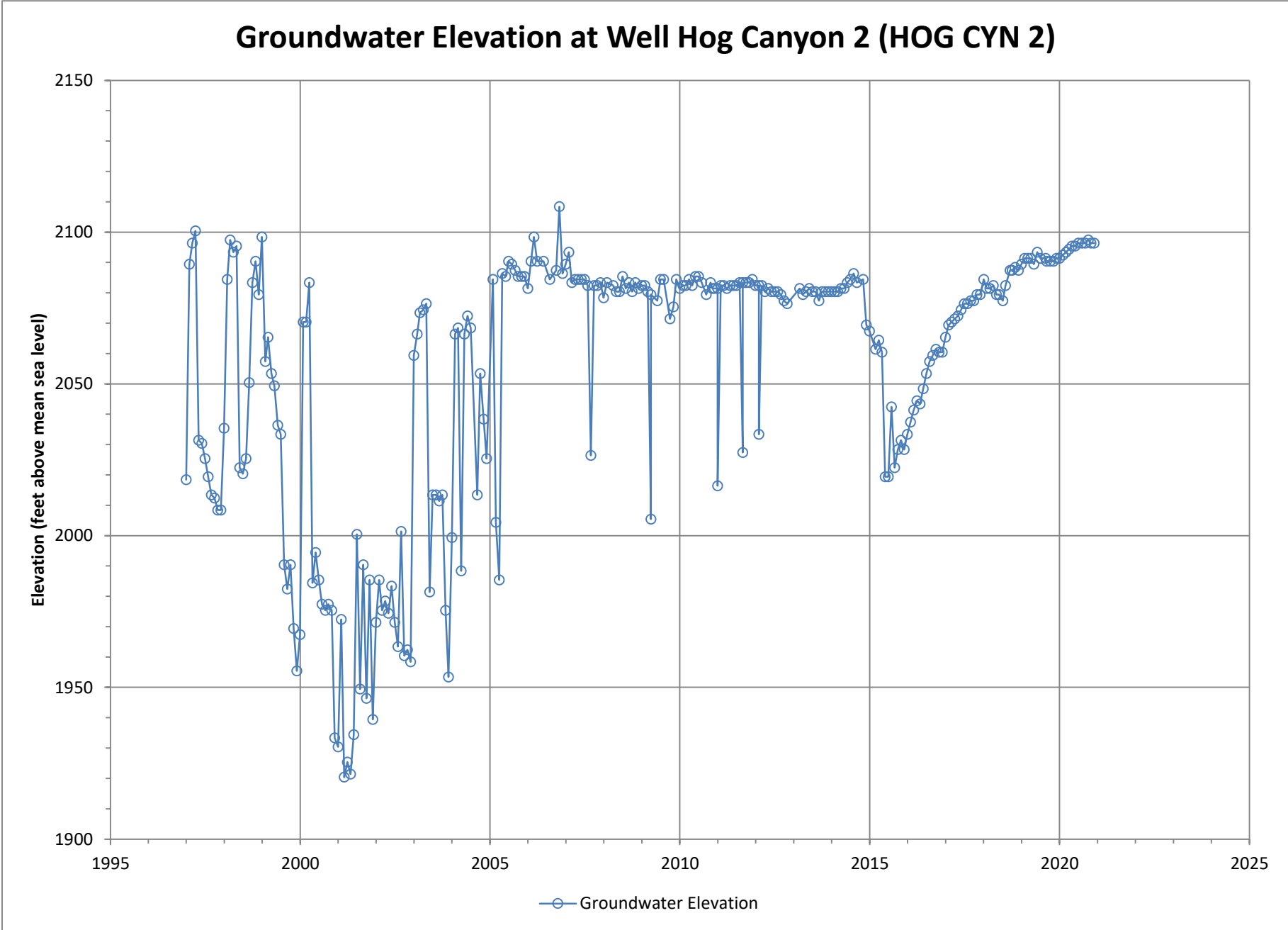
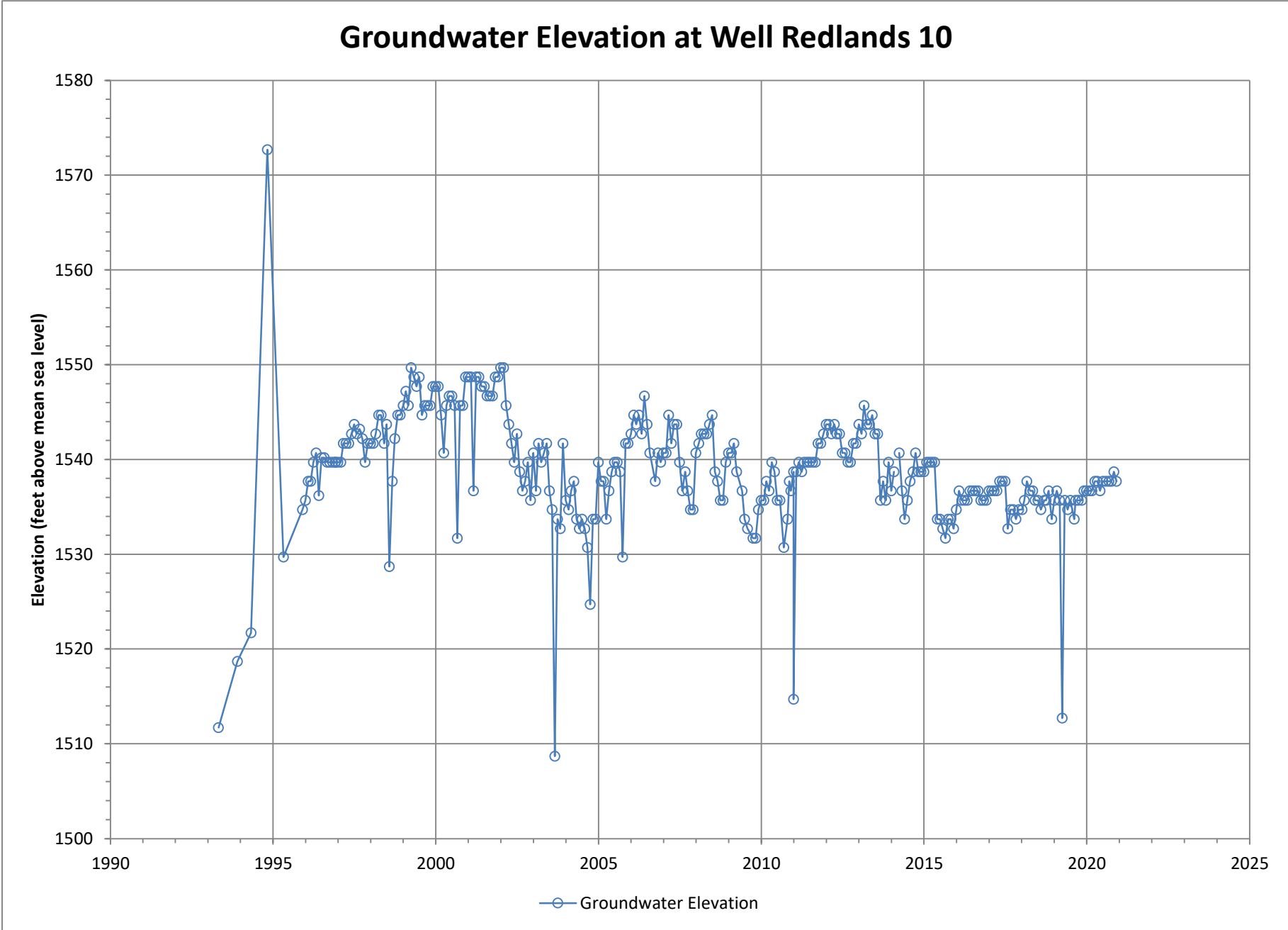
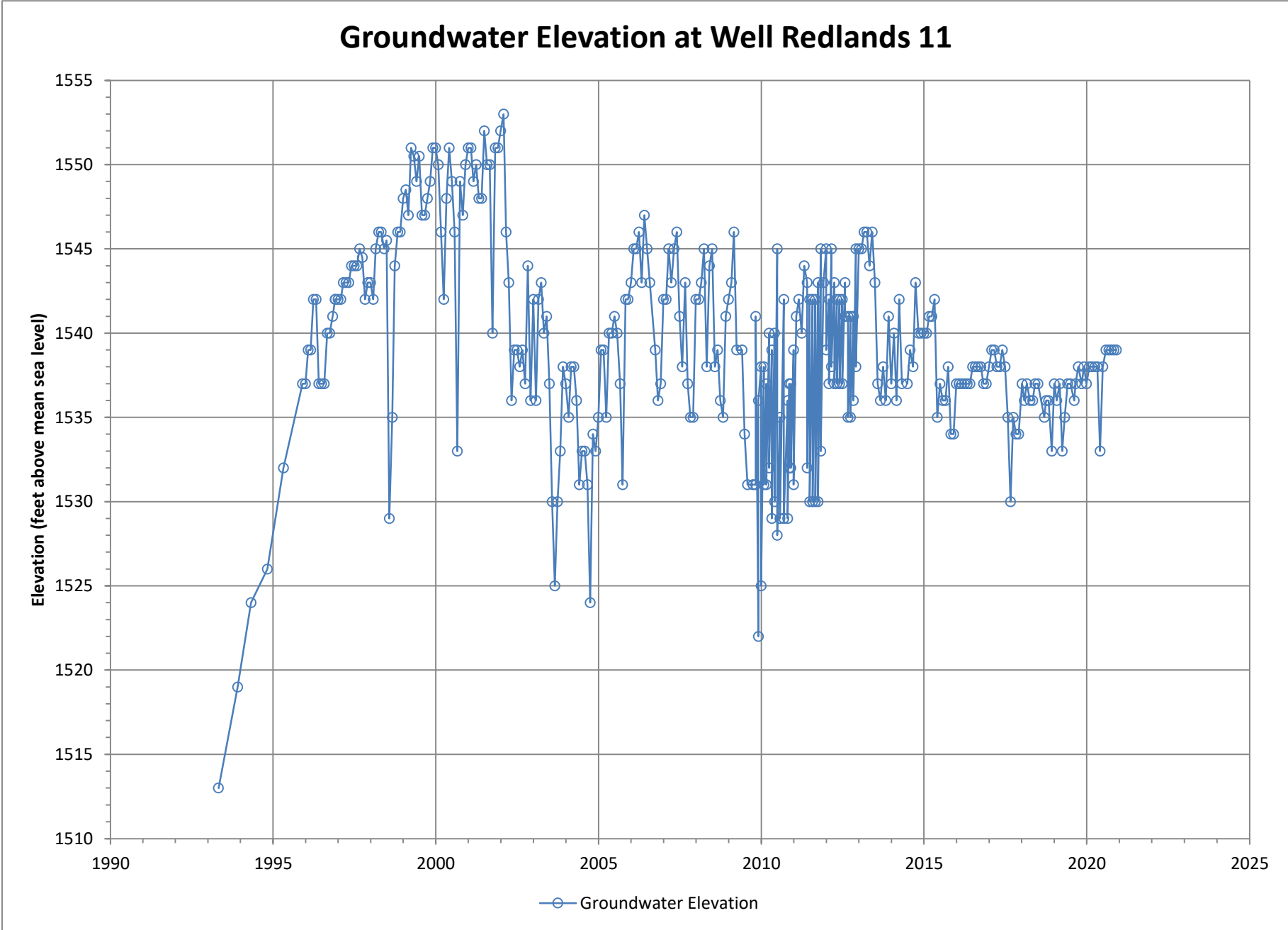


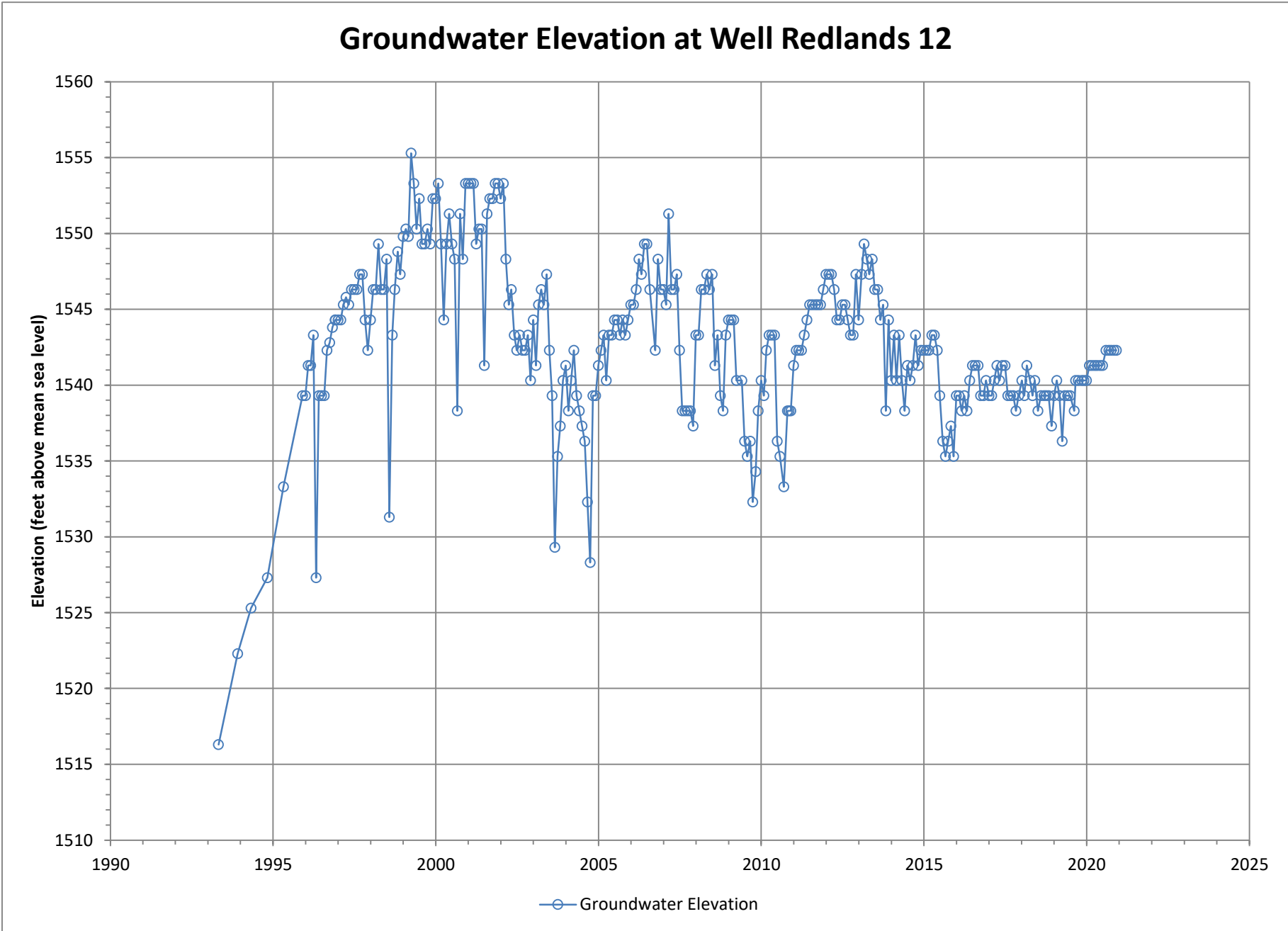
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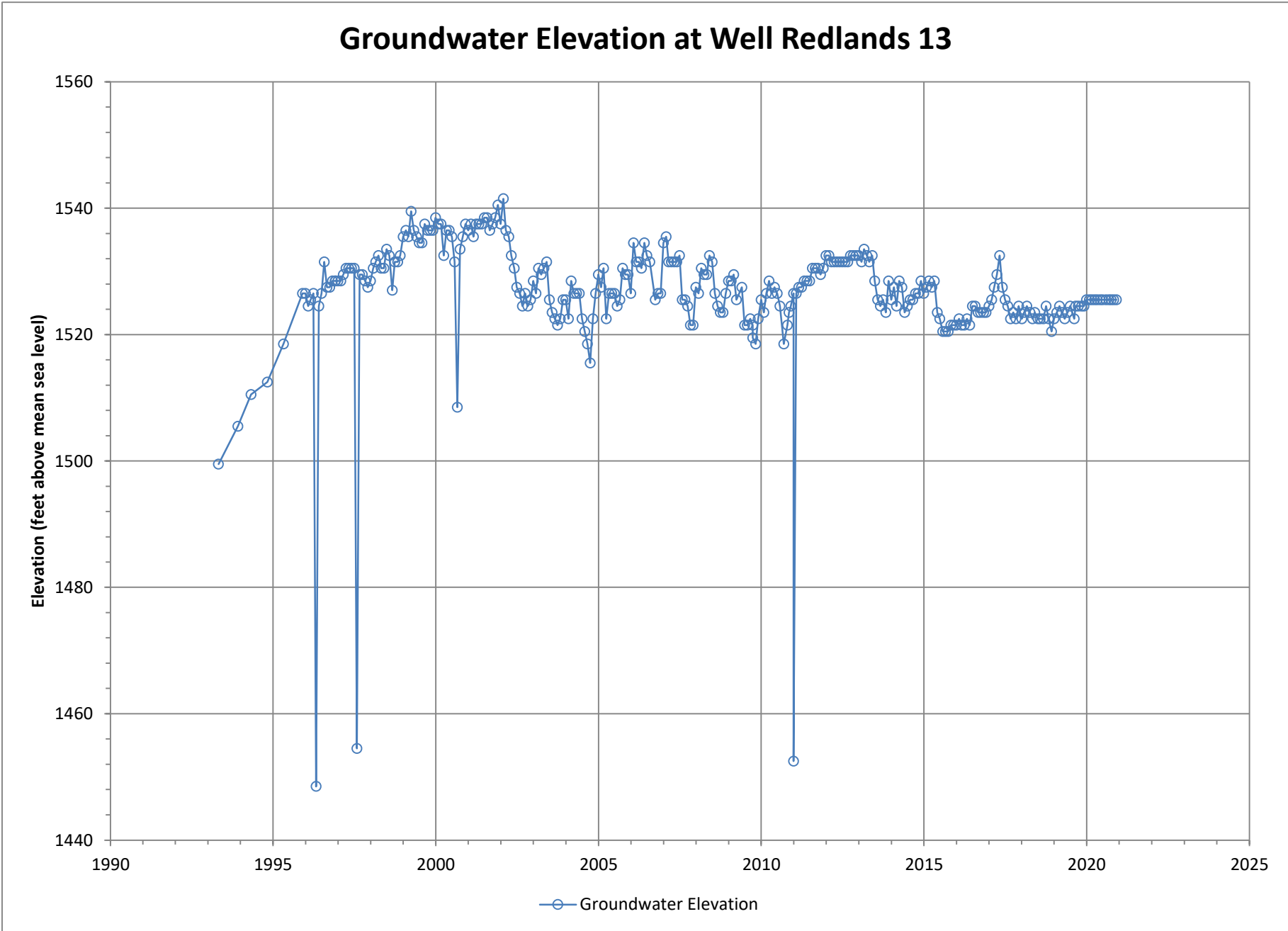


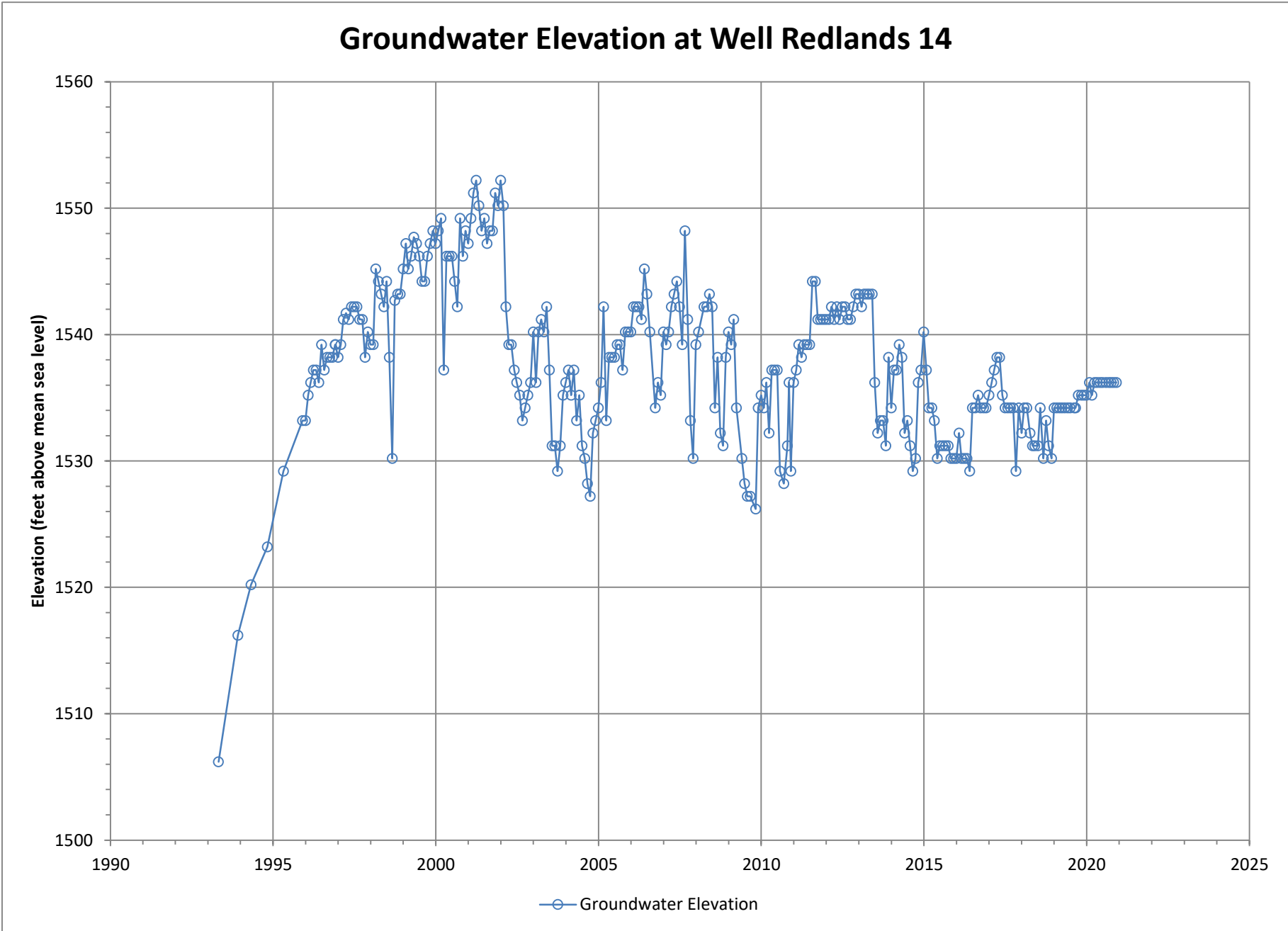




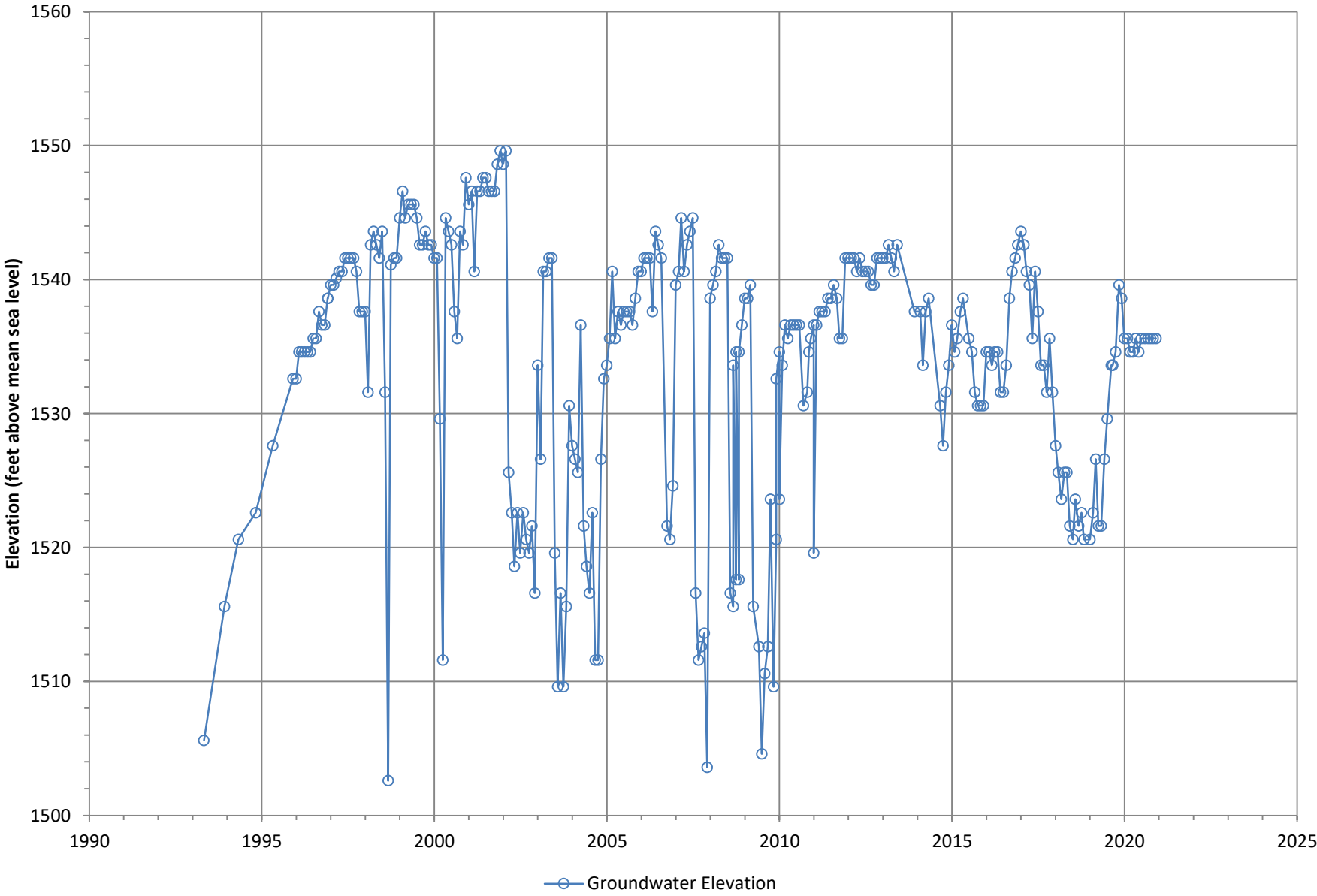


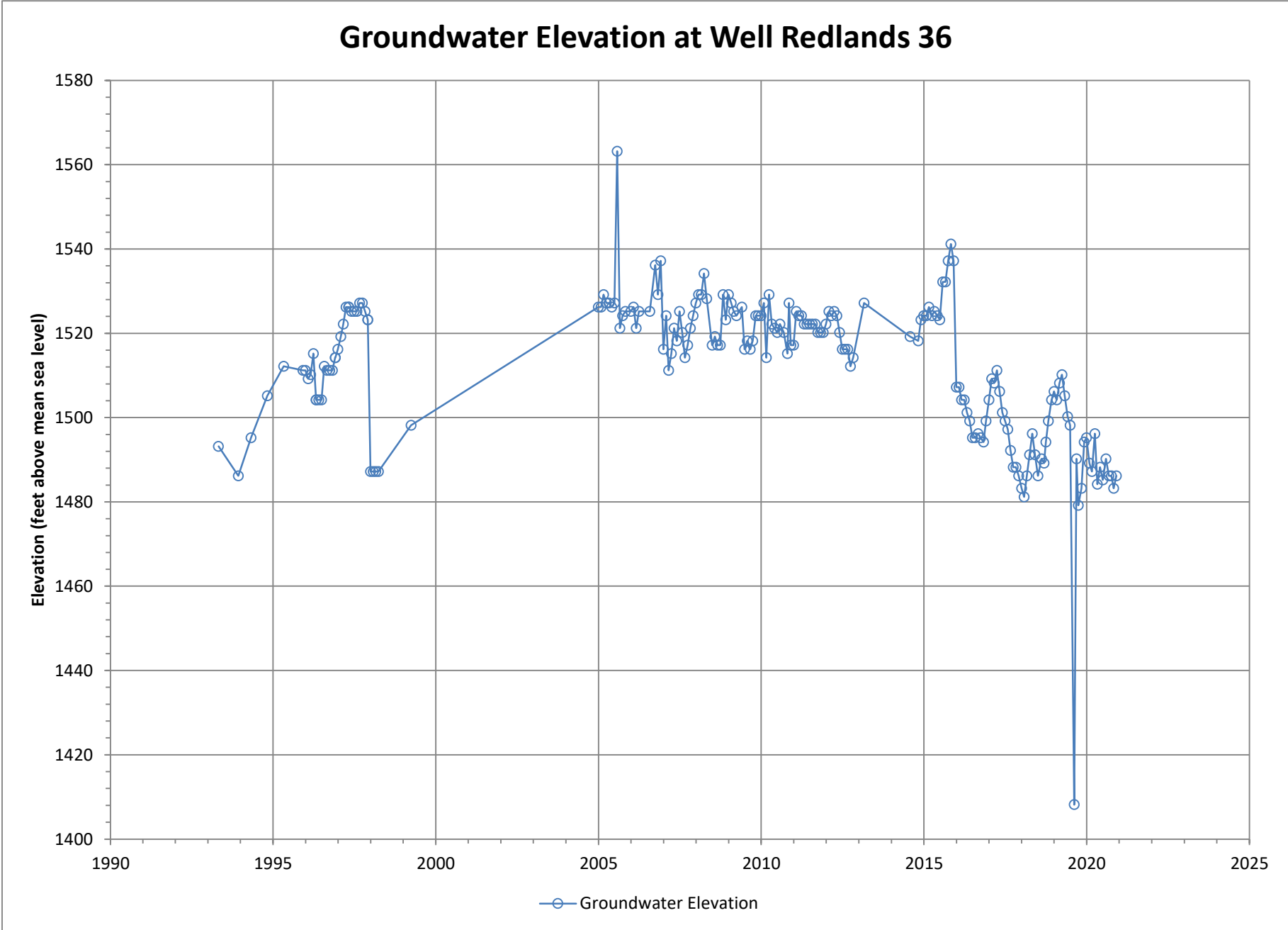


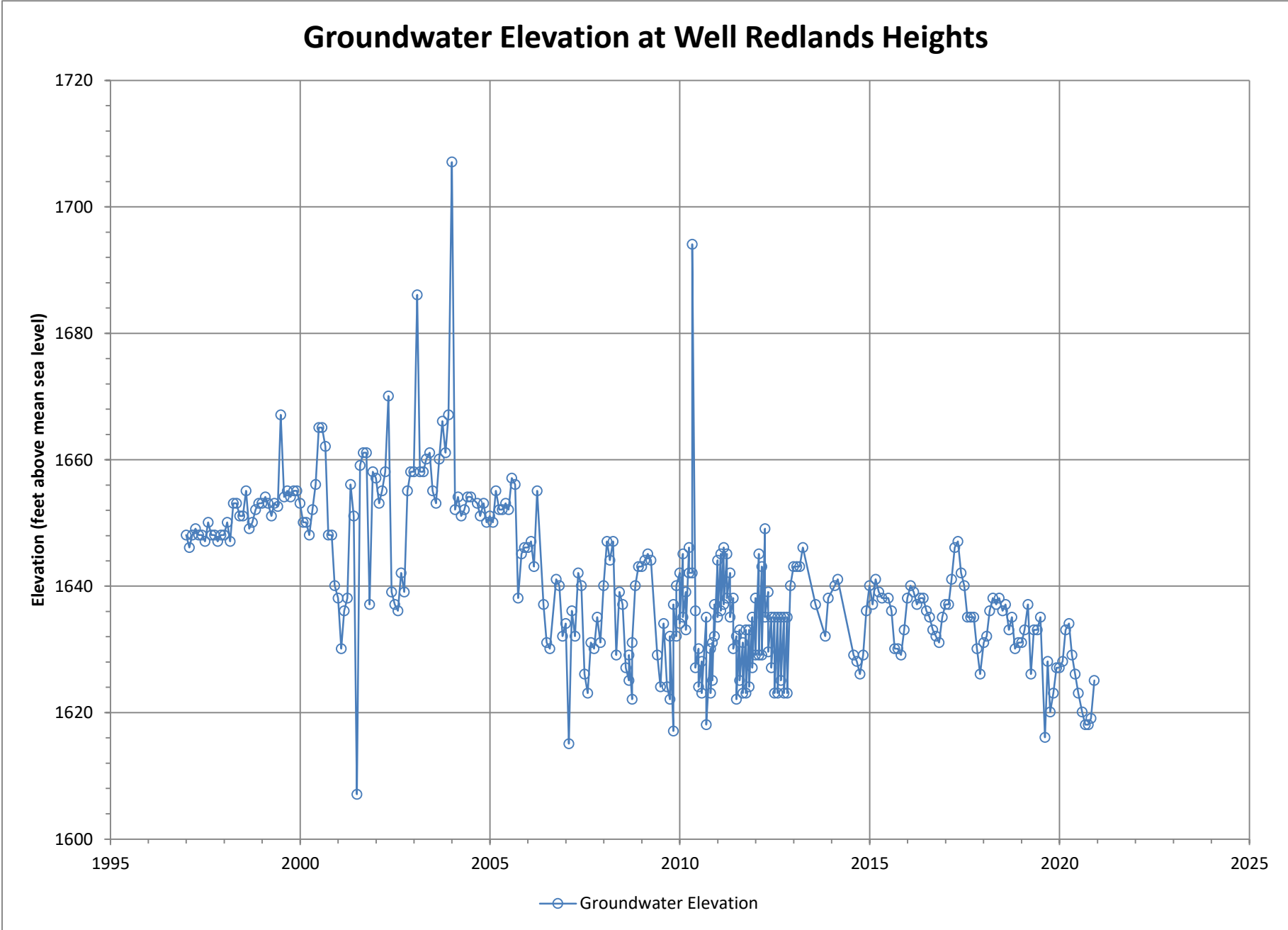




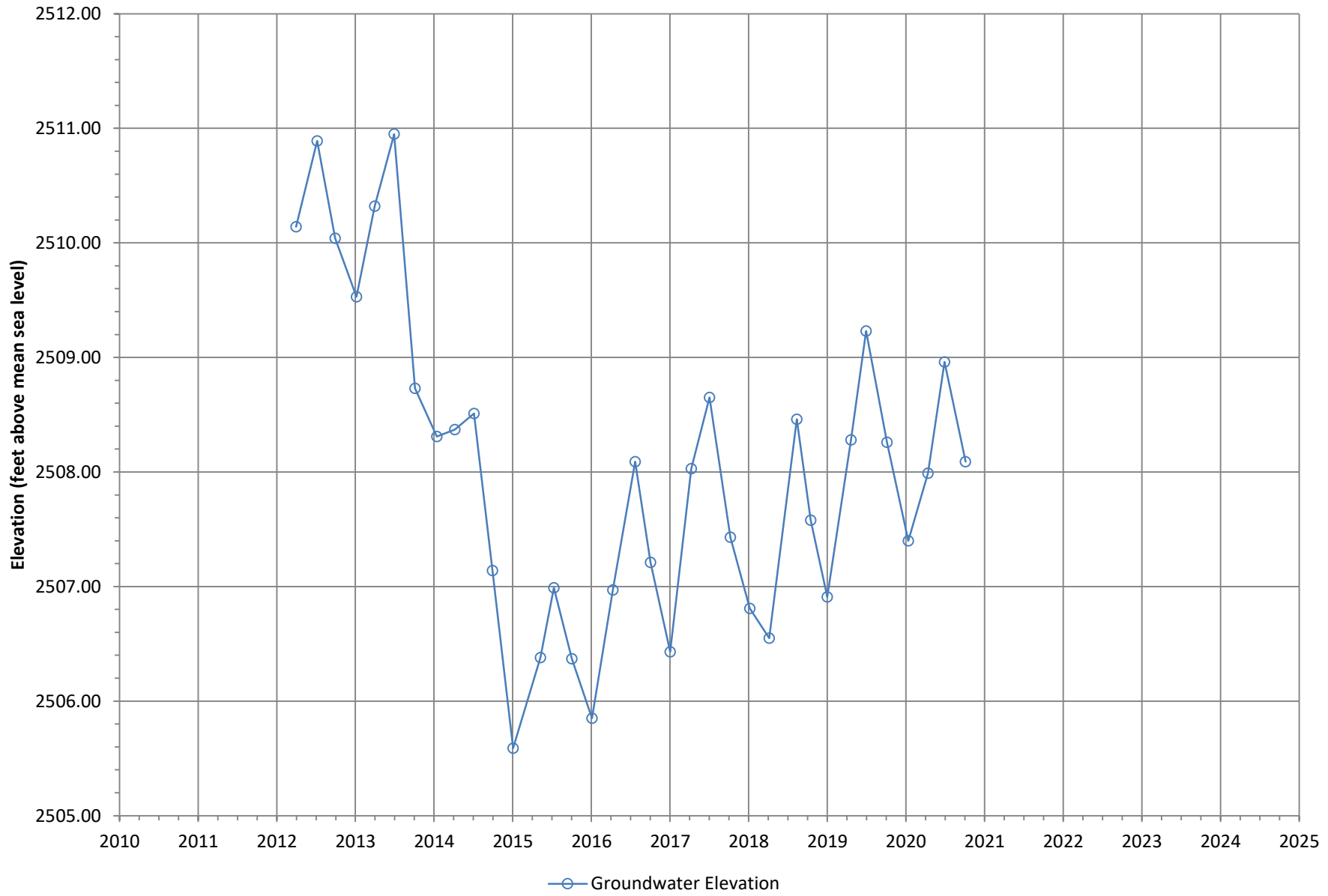
Groundwater Elevation at Well Redlands 16

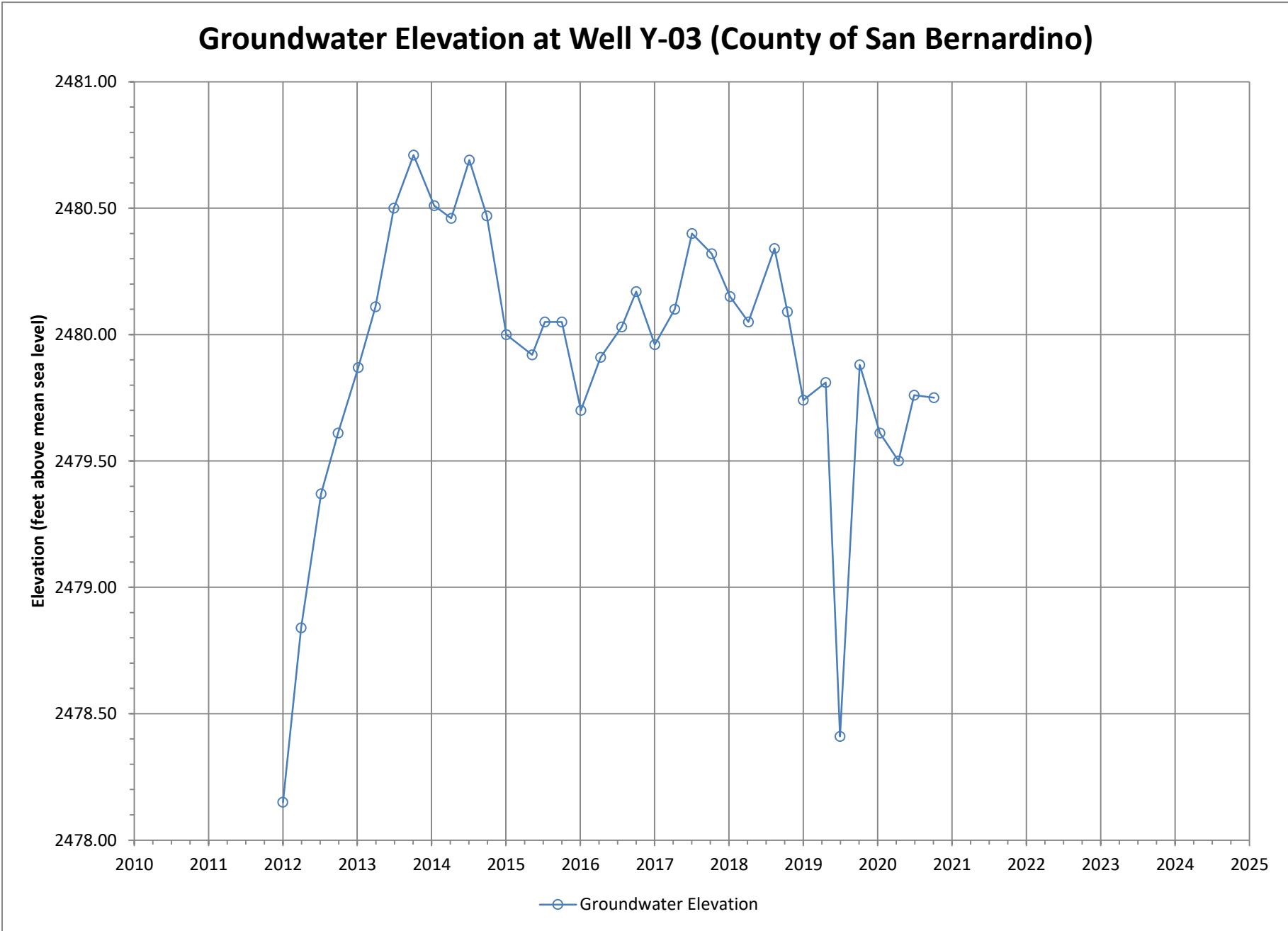




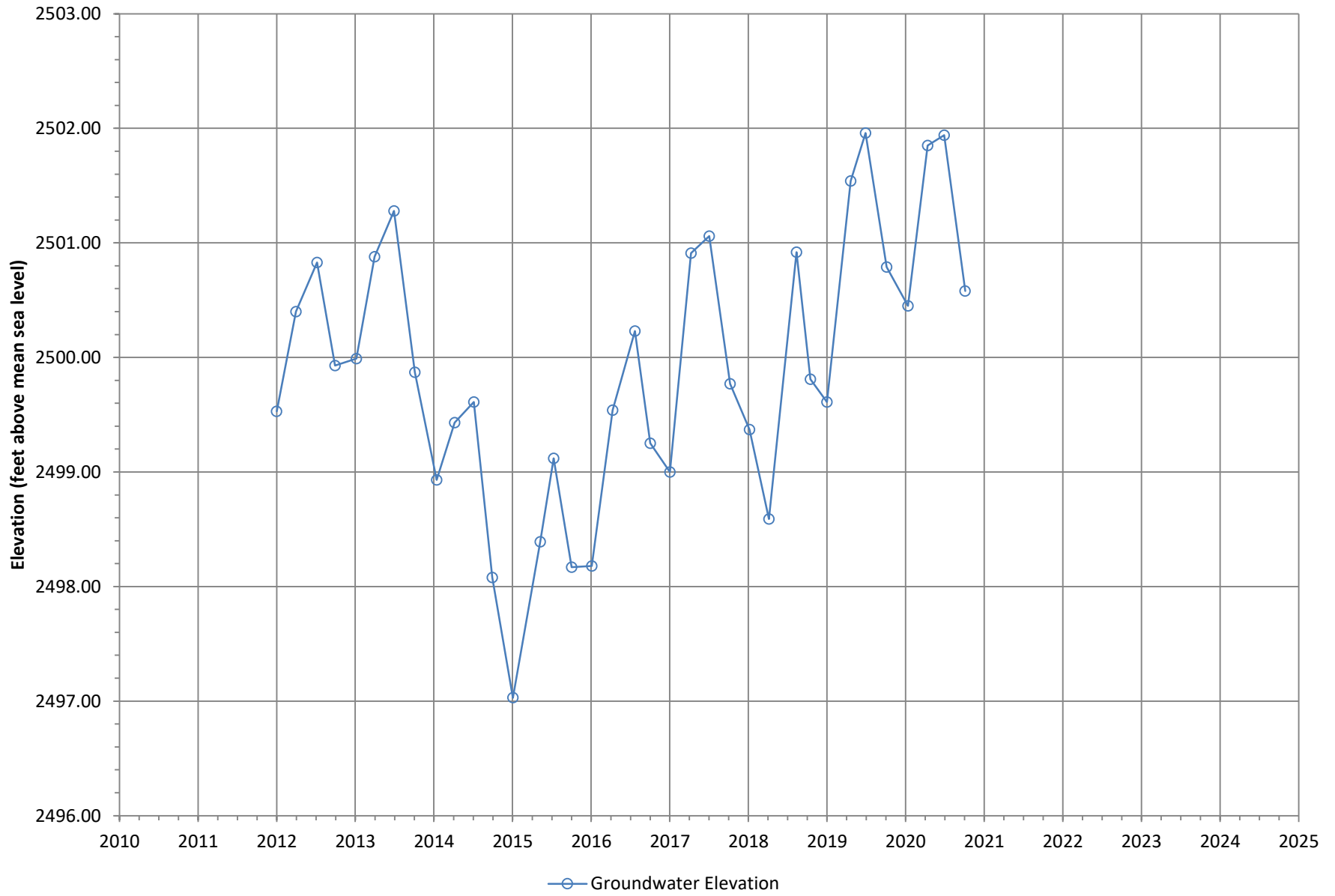


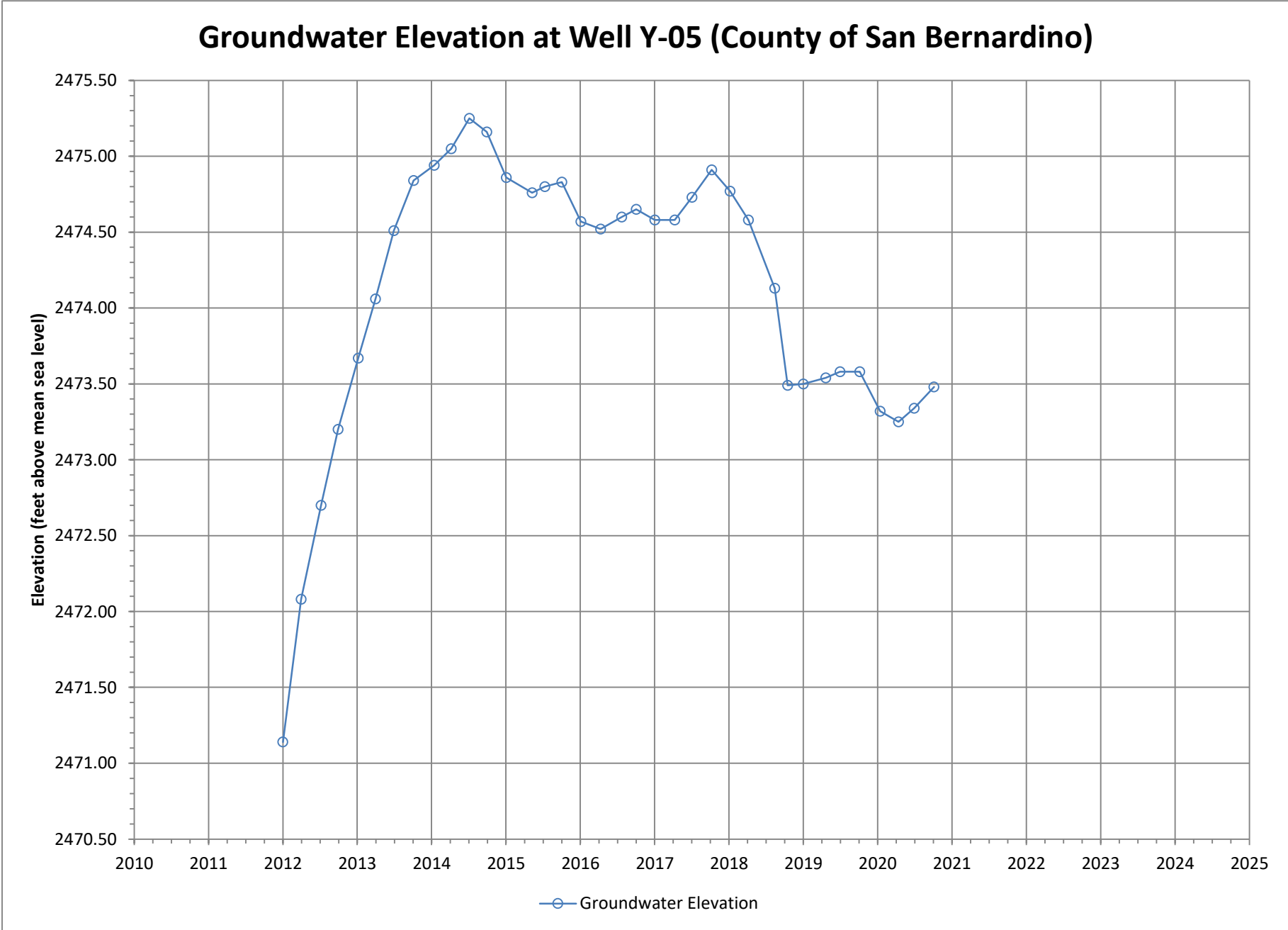
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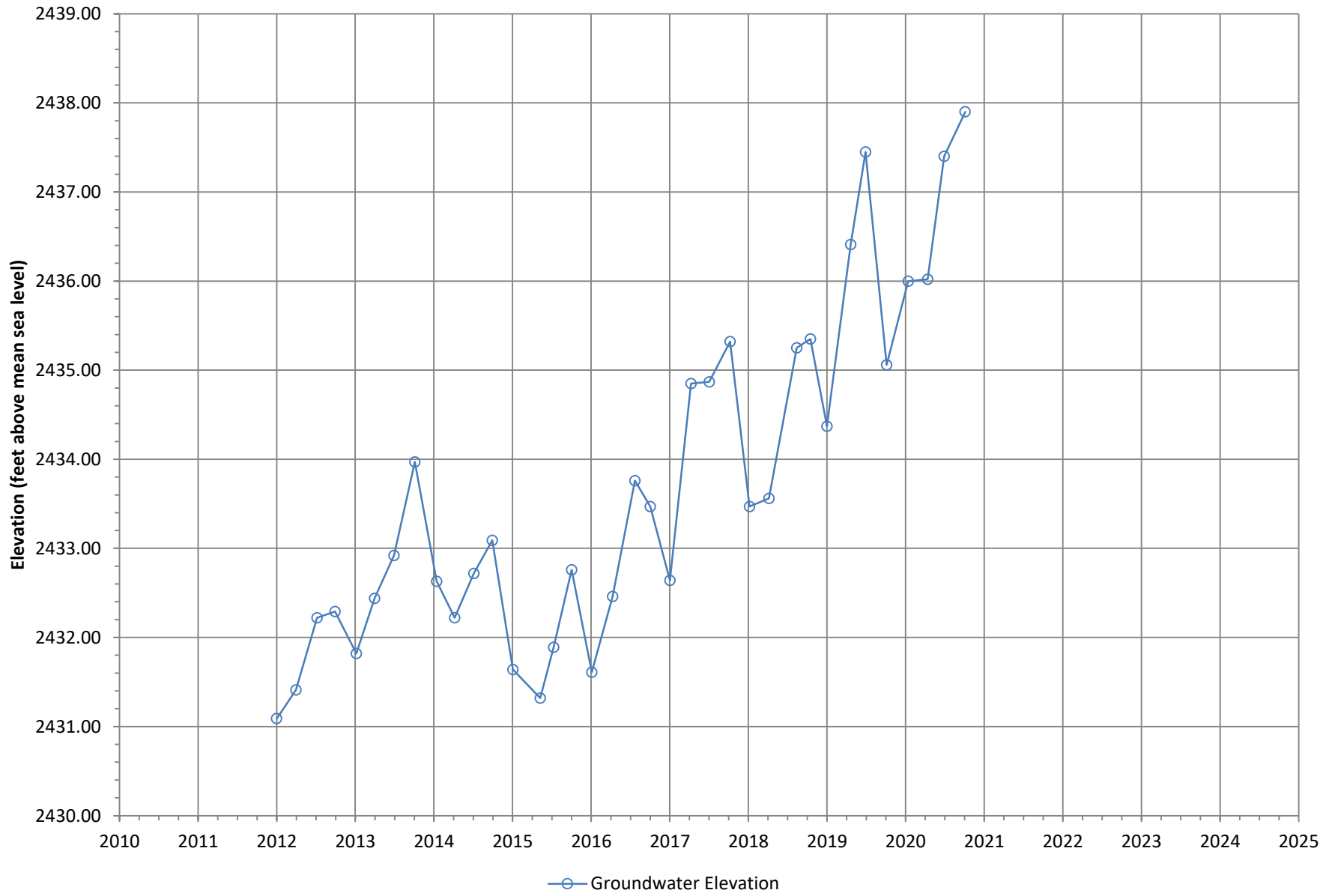


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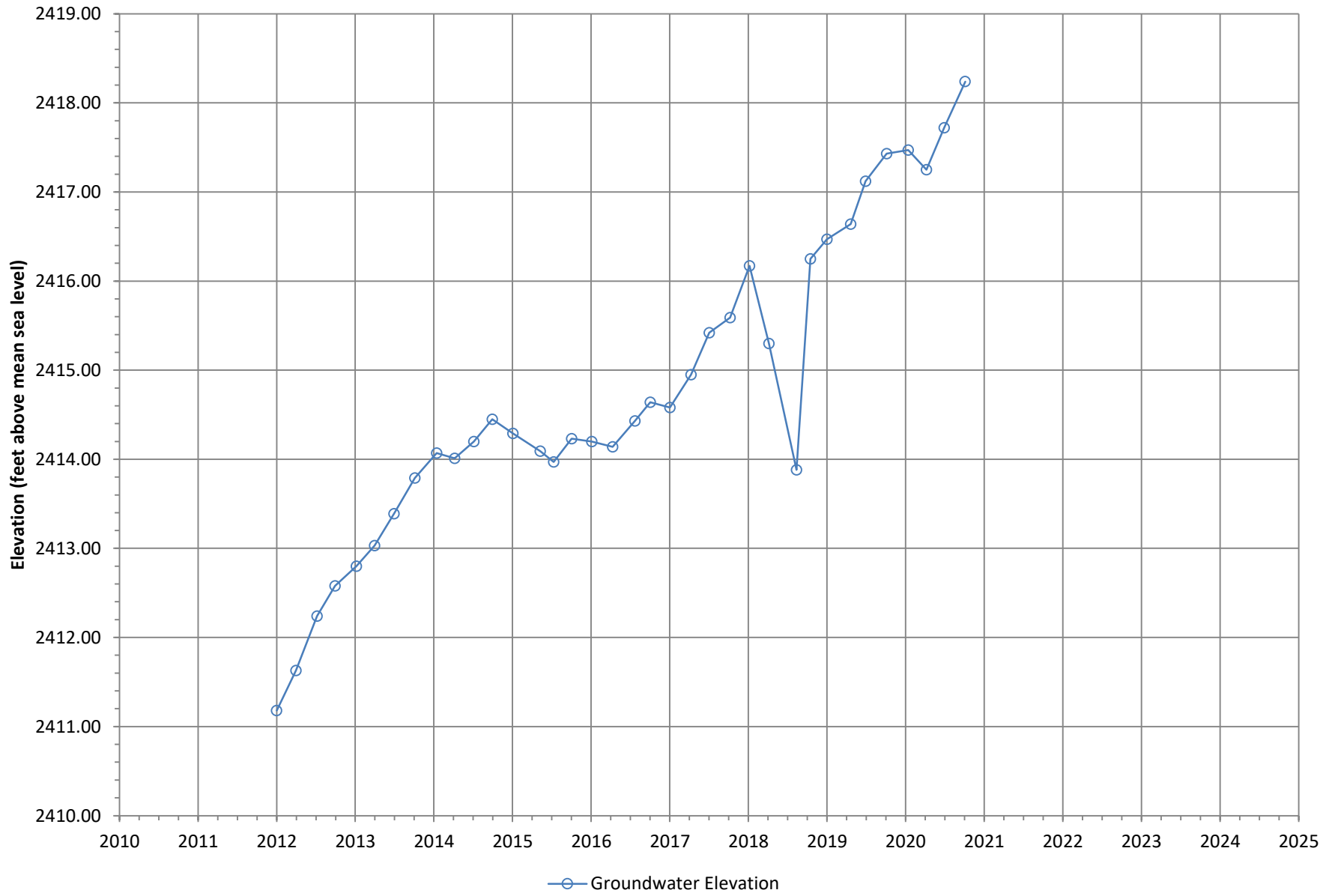




Groundwater Elevation at Well Y-08 (County of San Bernardino)



Groundwater Elevation at Well Y-09A (County of San Bernardino)



Groundwater Elevation at Well Y-09B (County of San Bernardino)

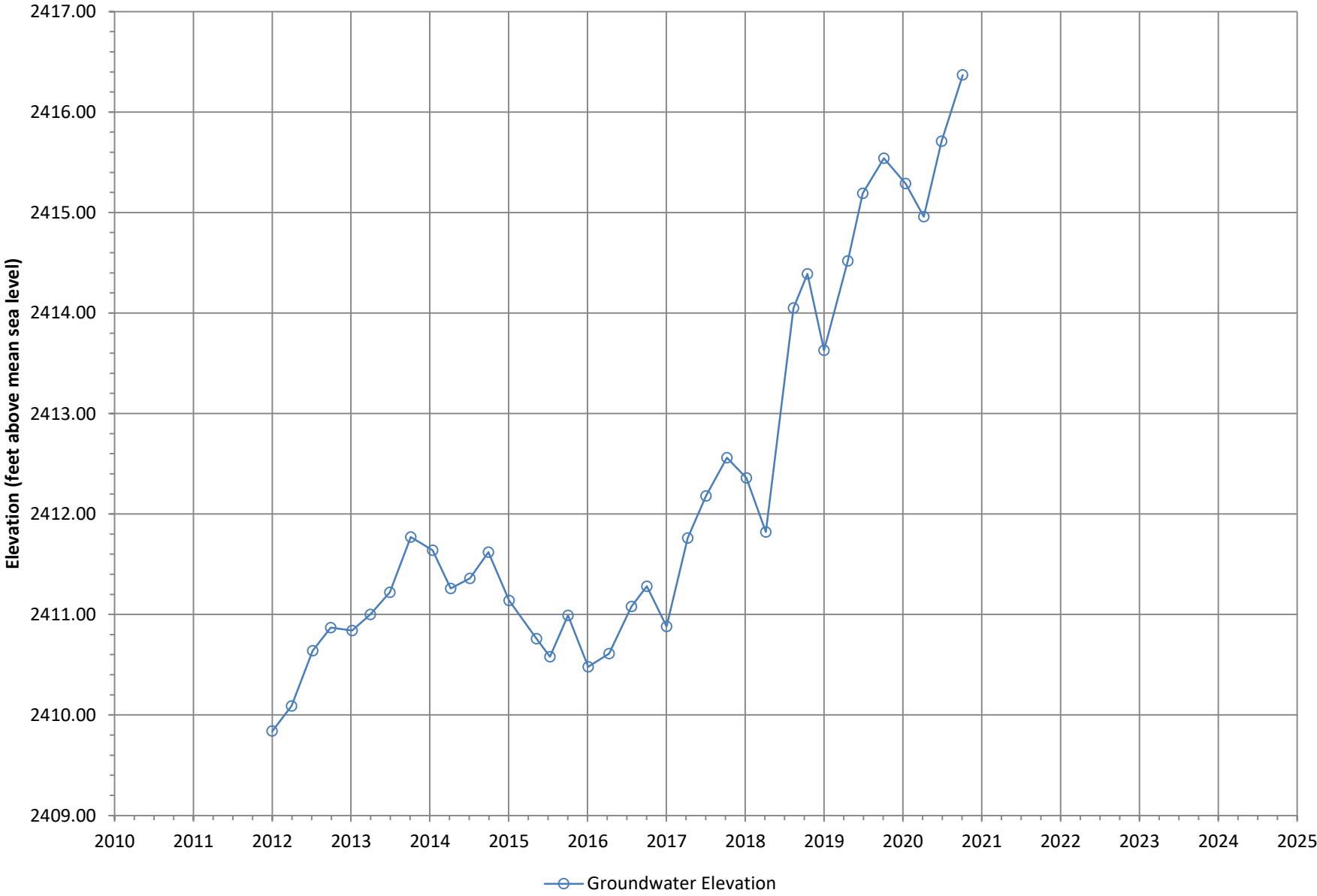
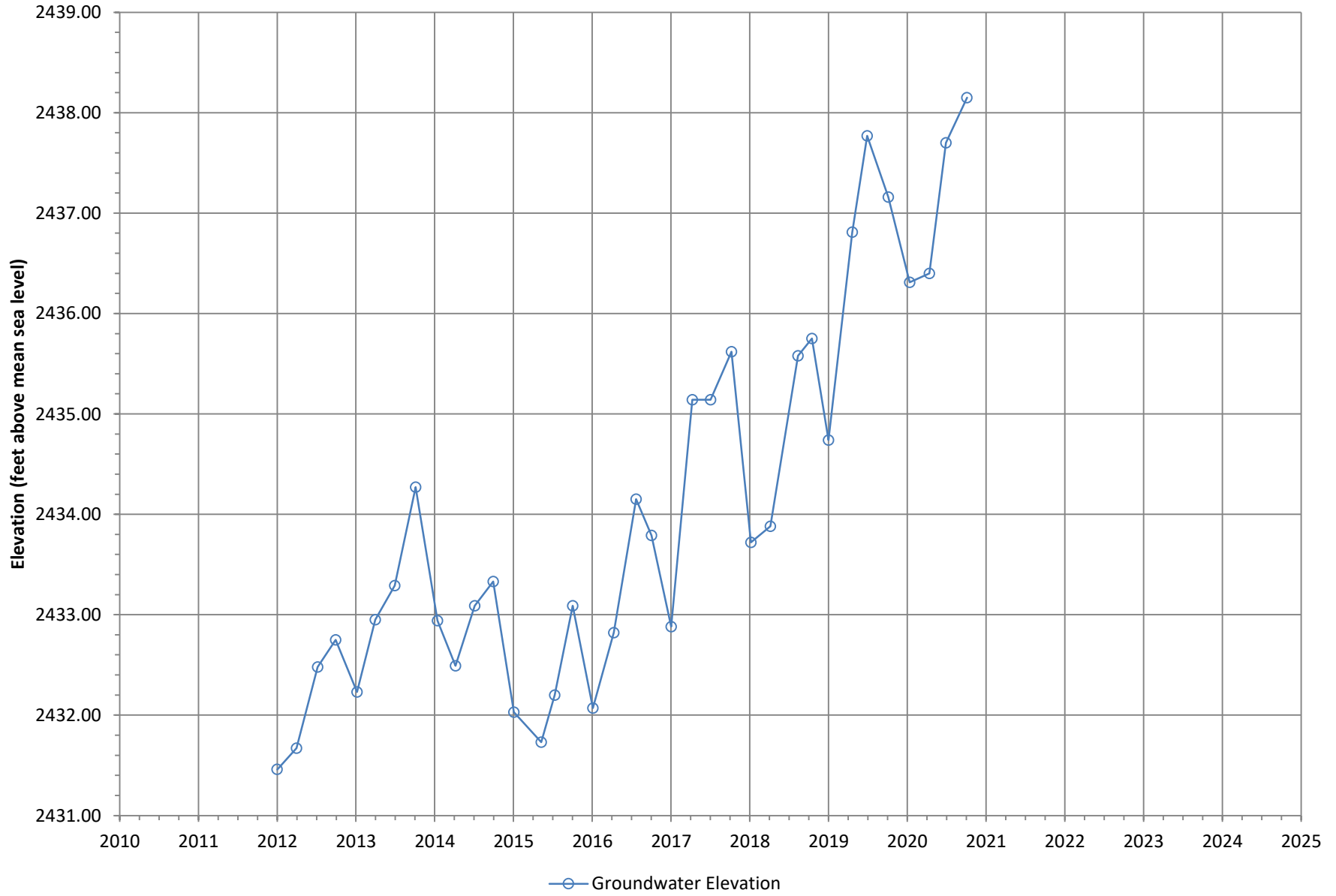
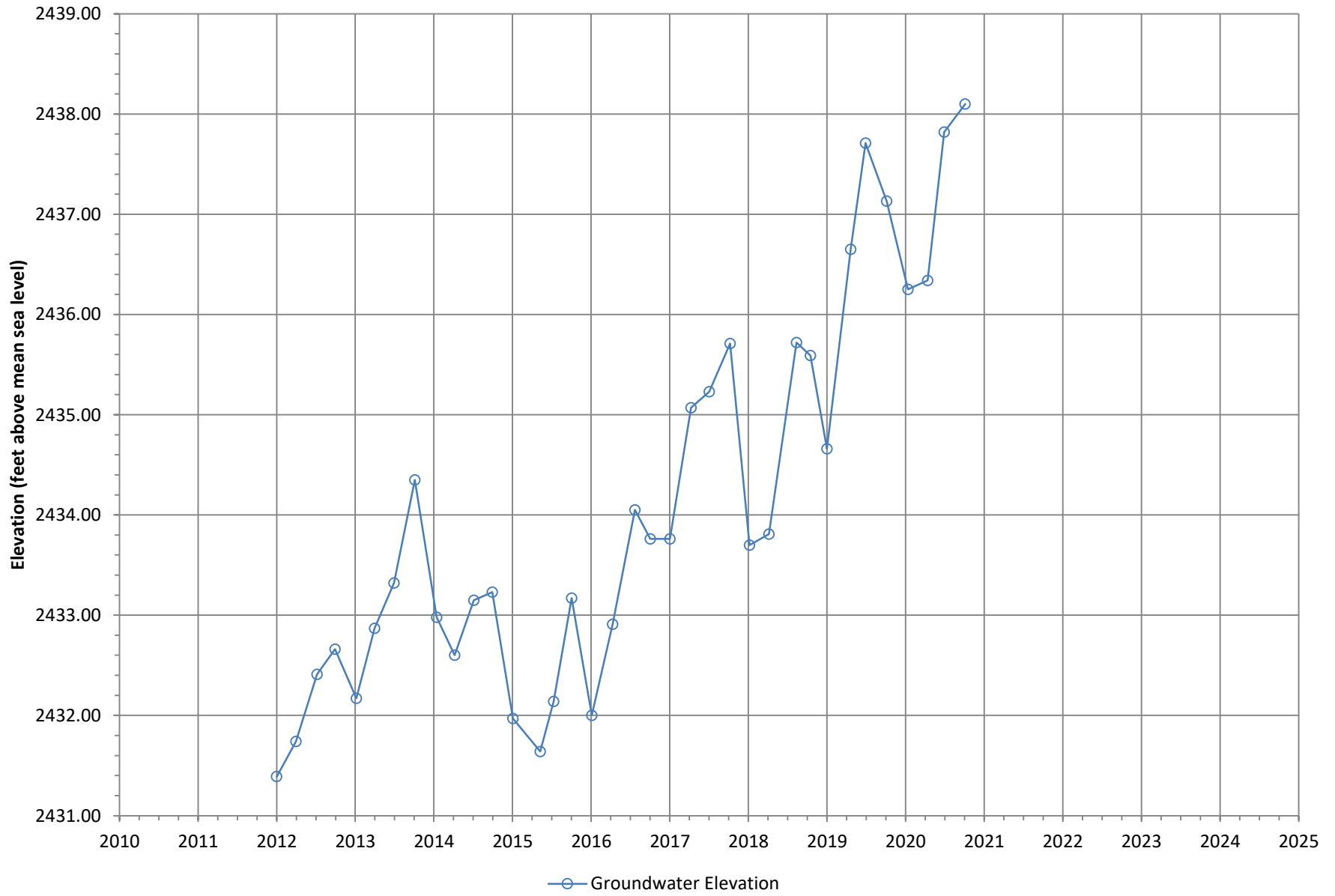


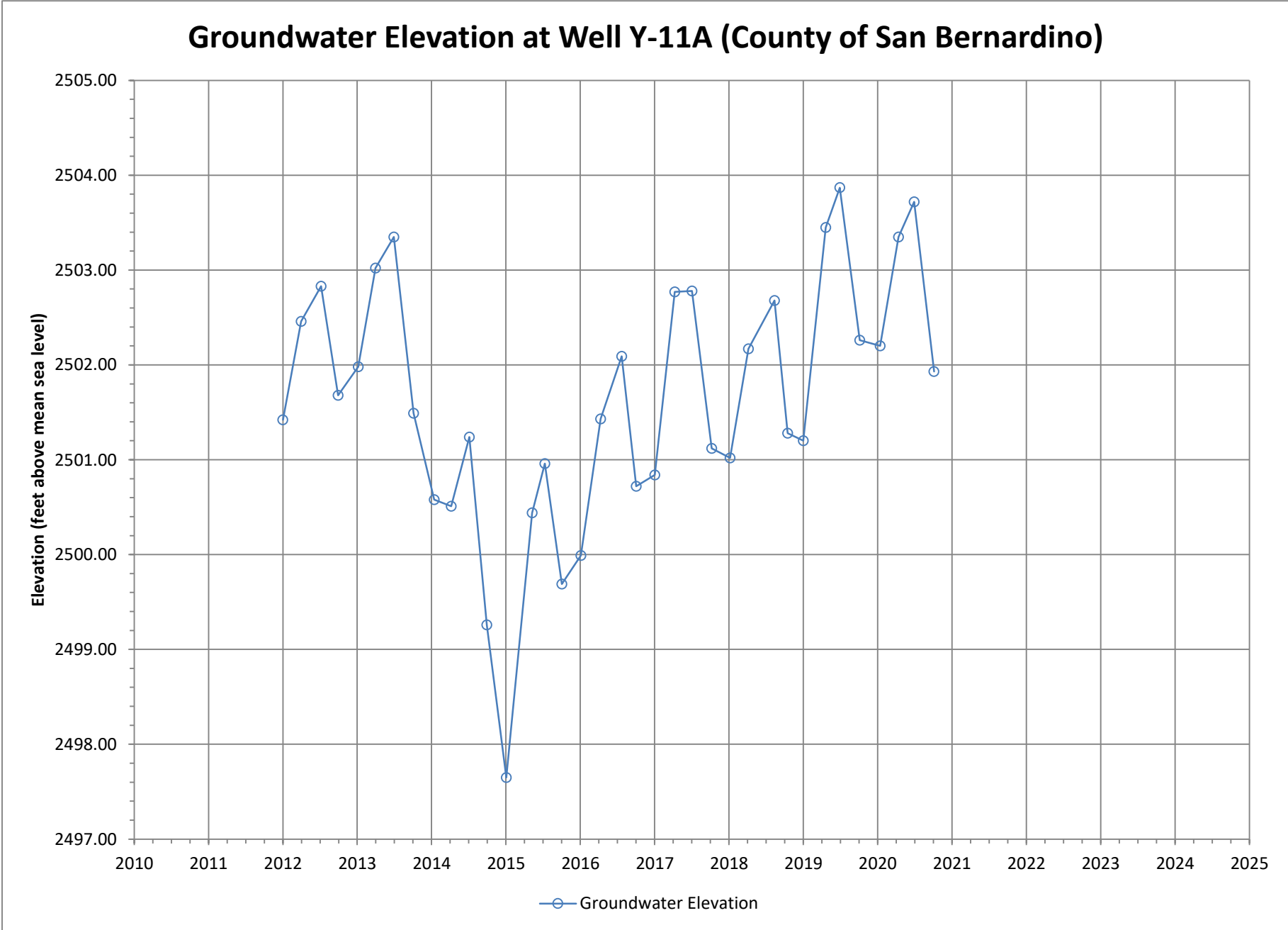
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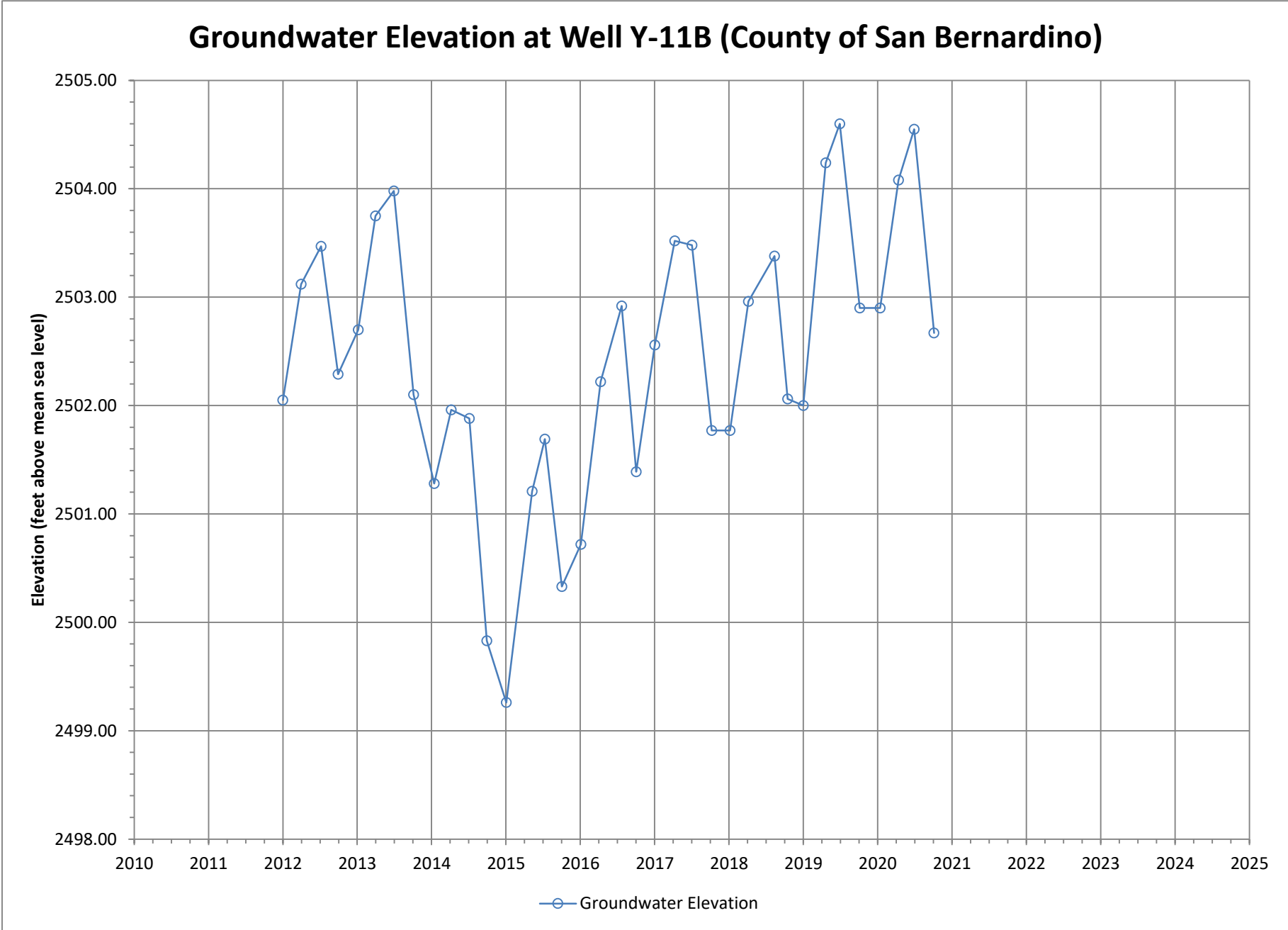
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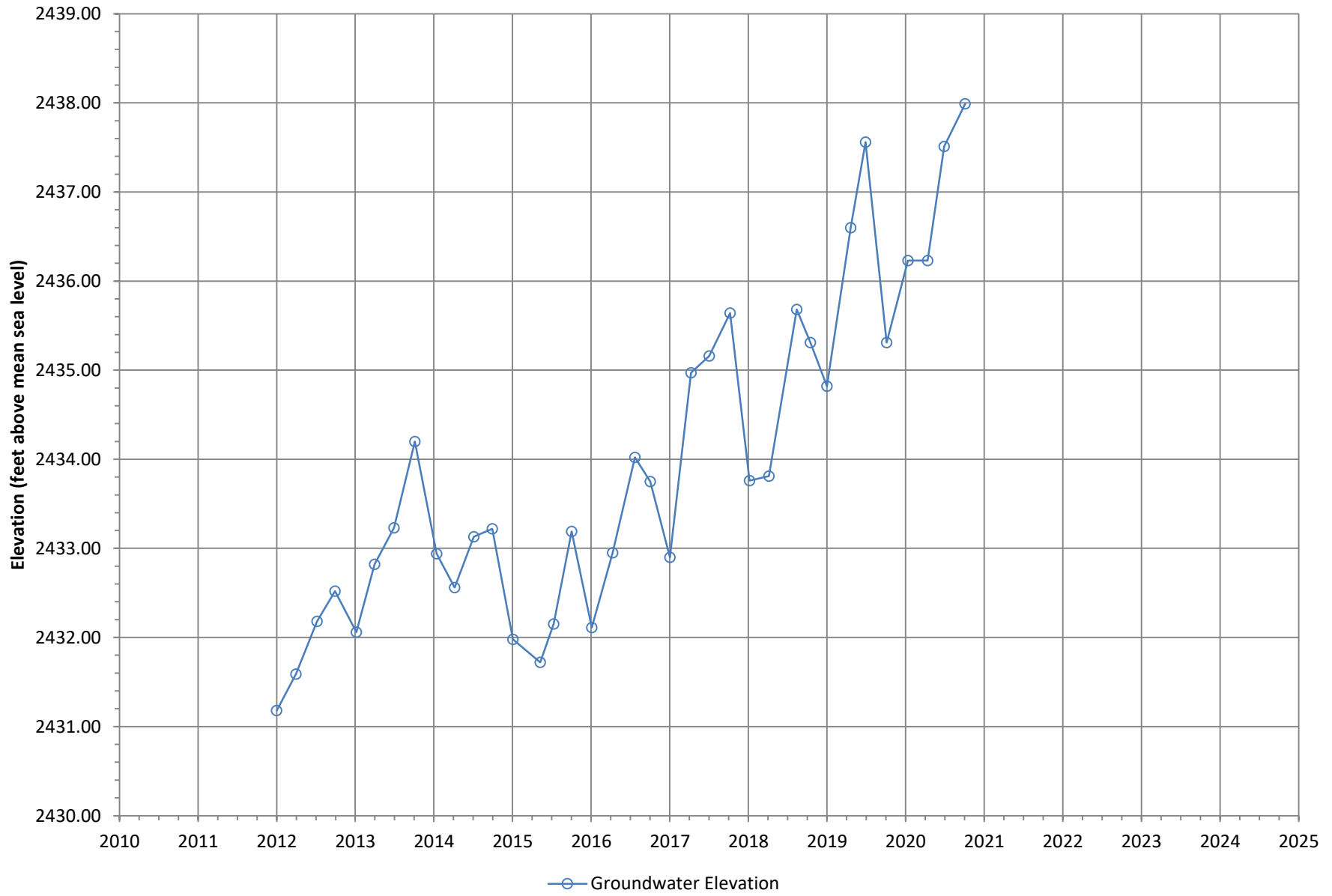
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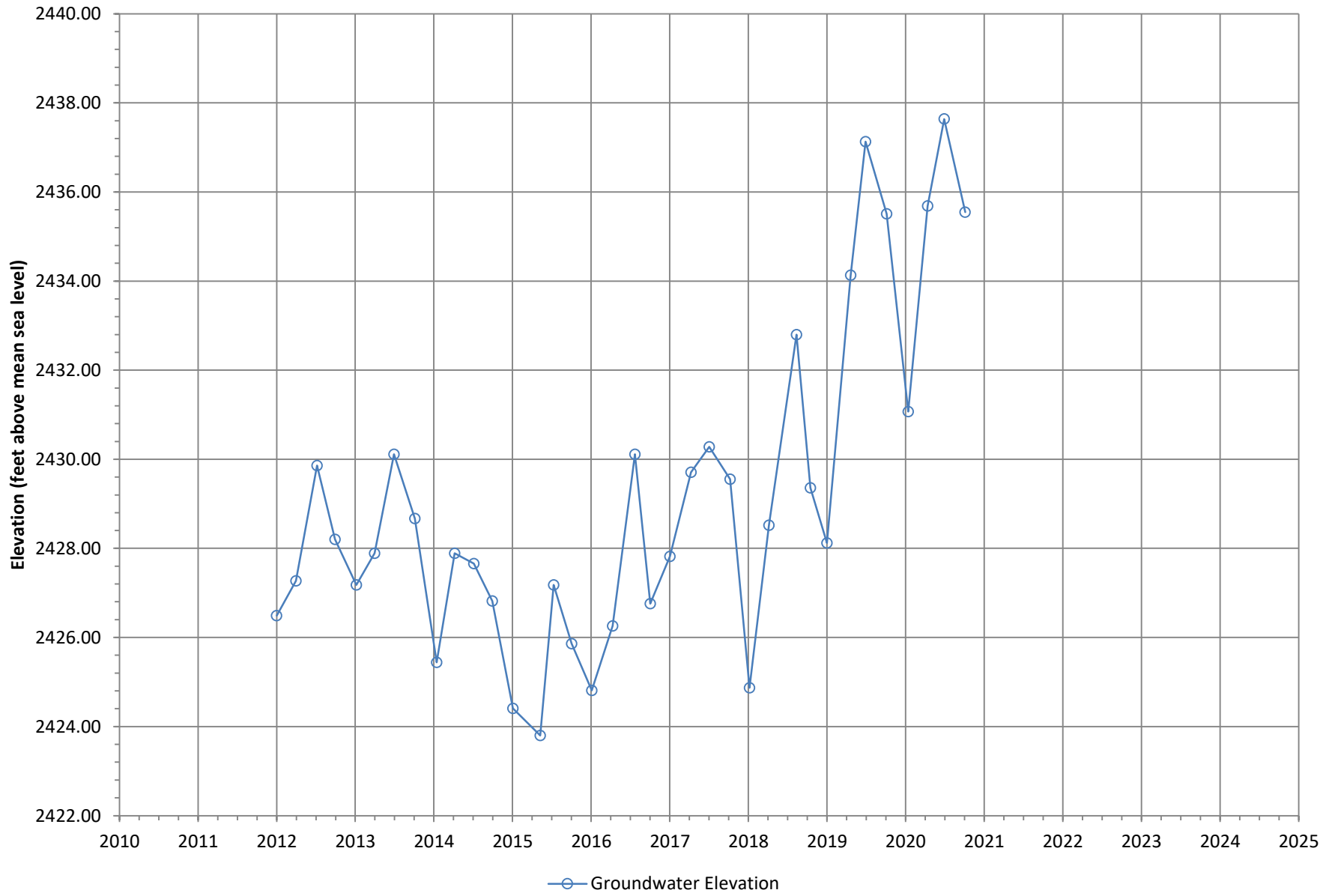




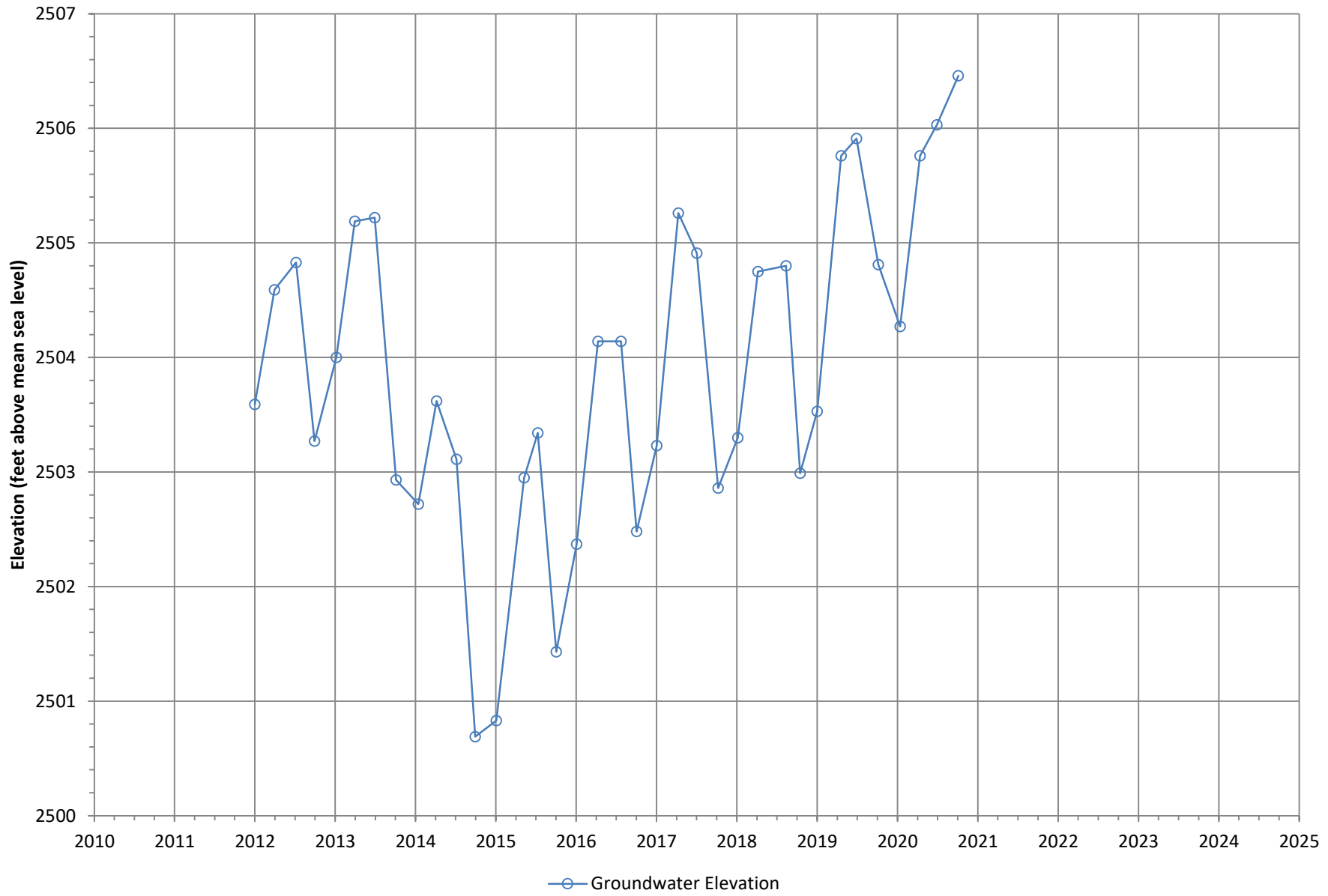
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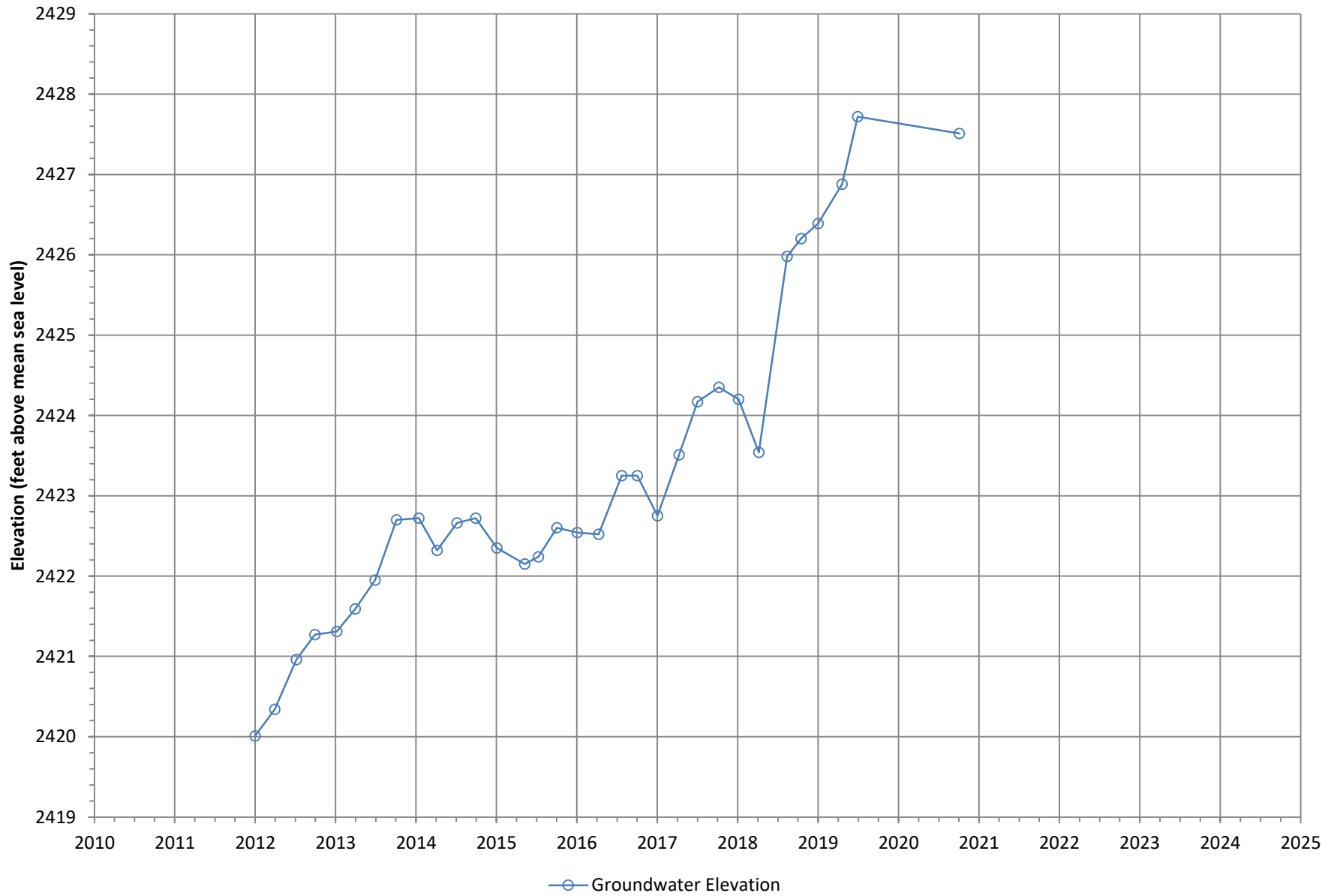
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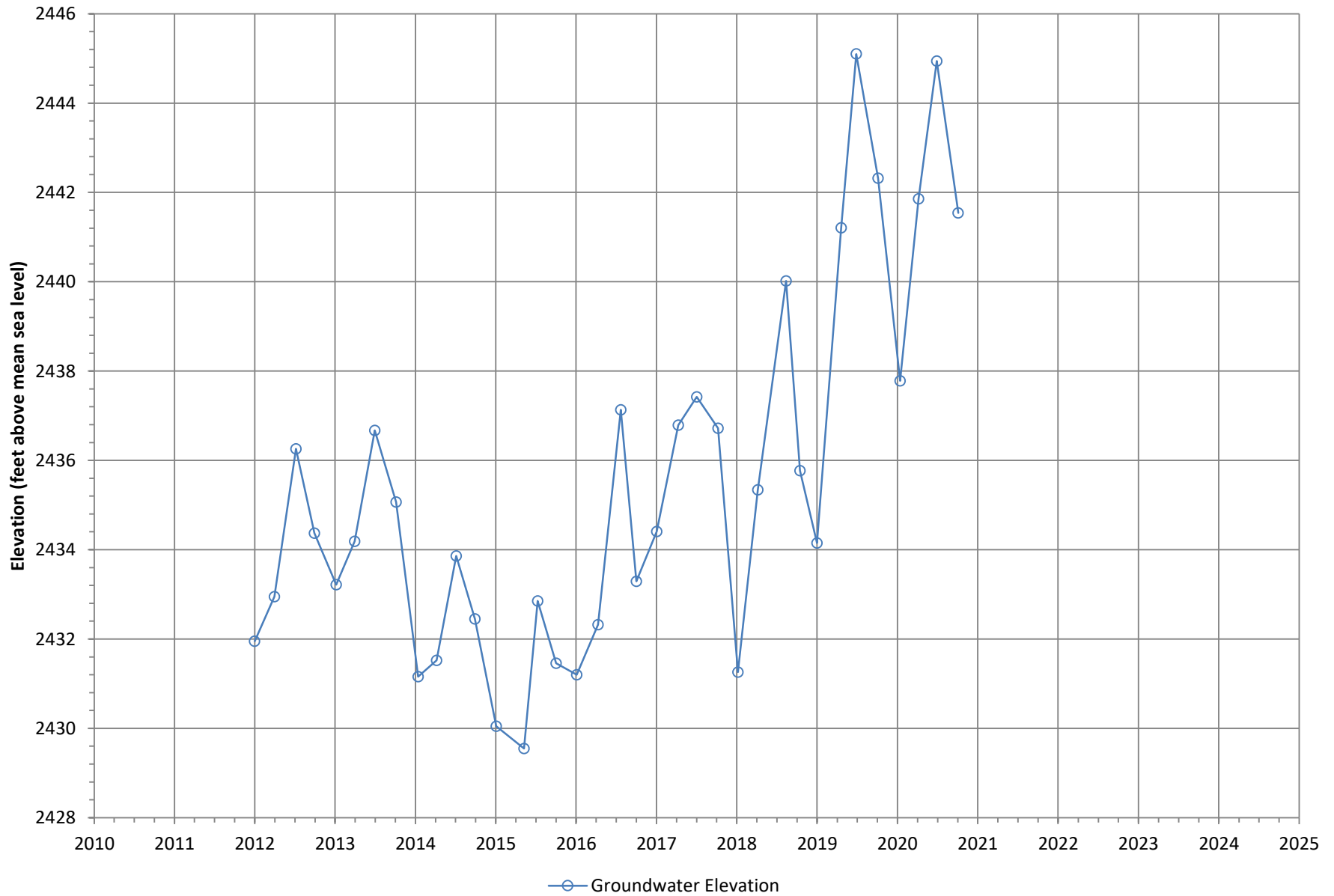
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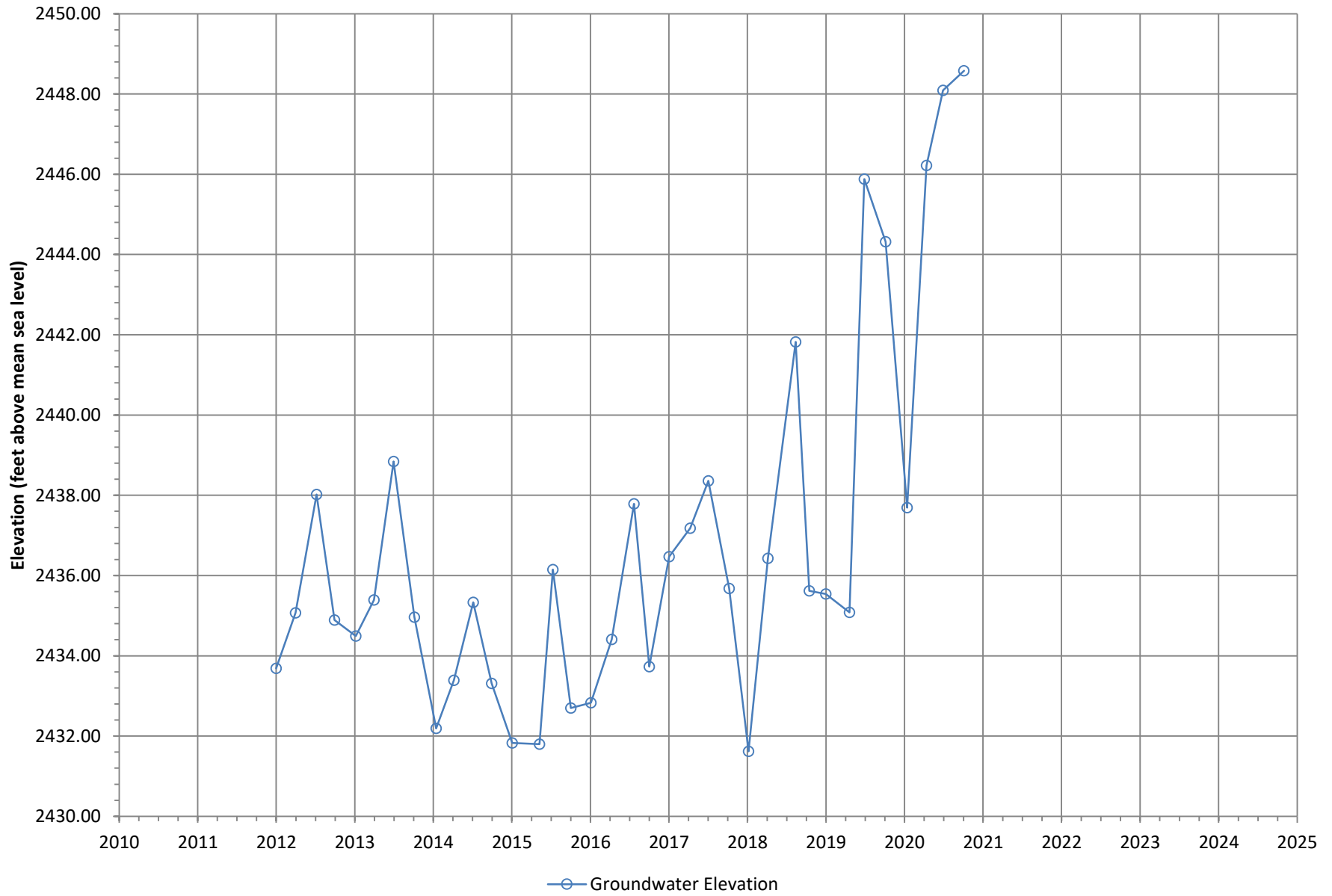
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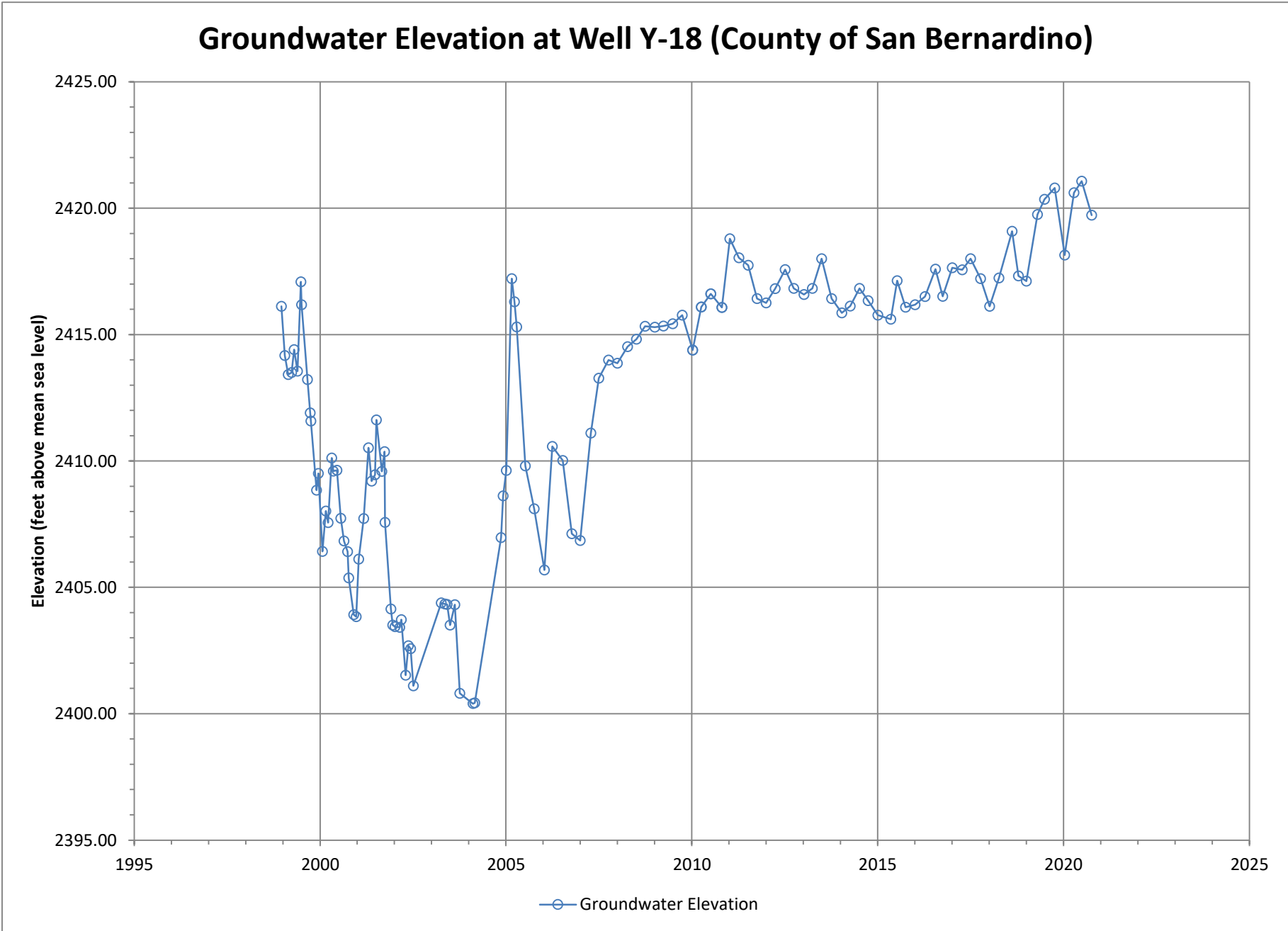


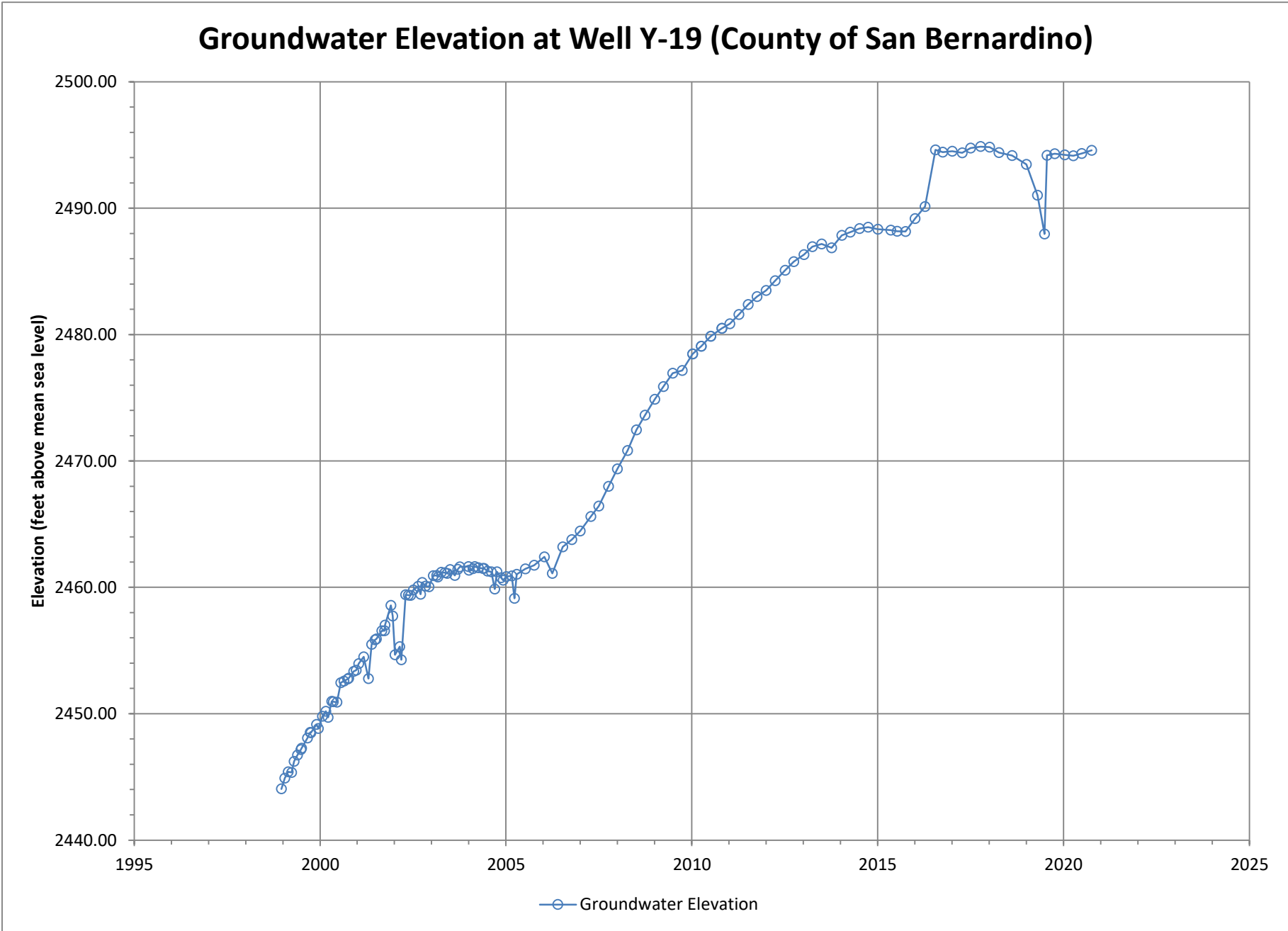
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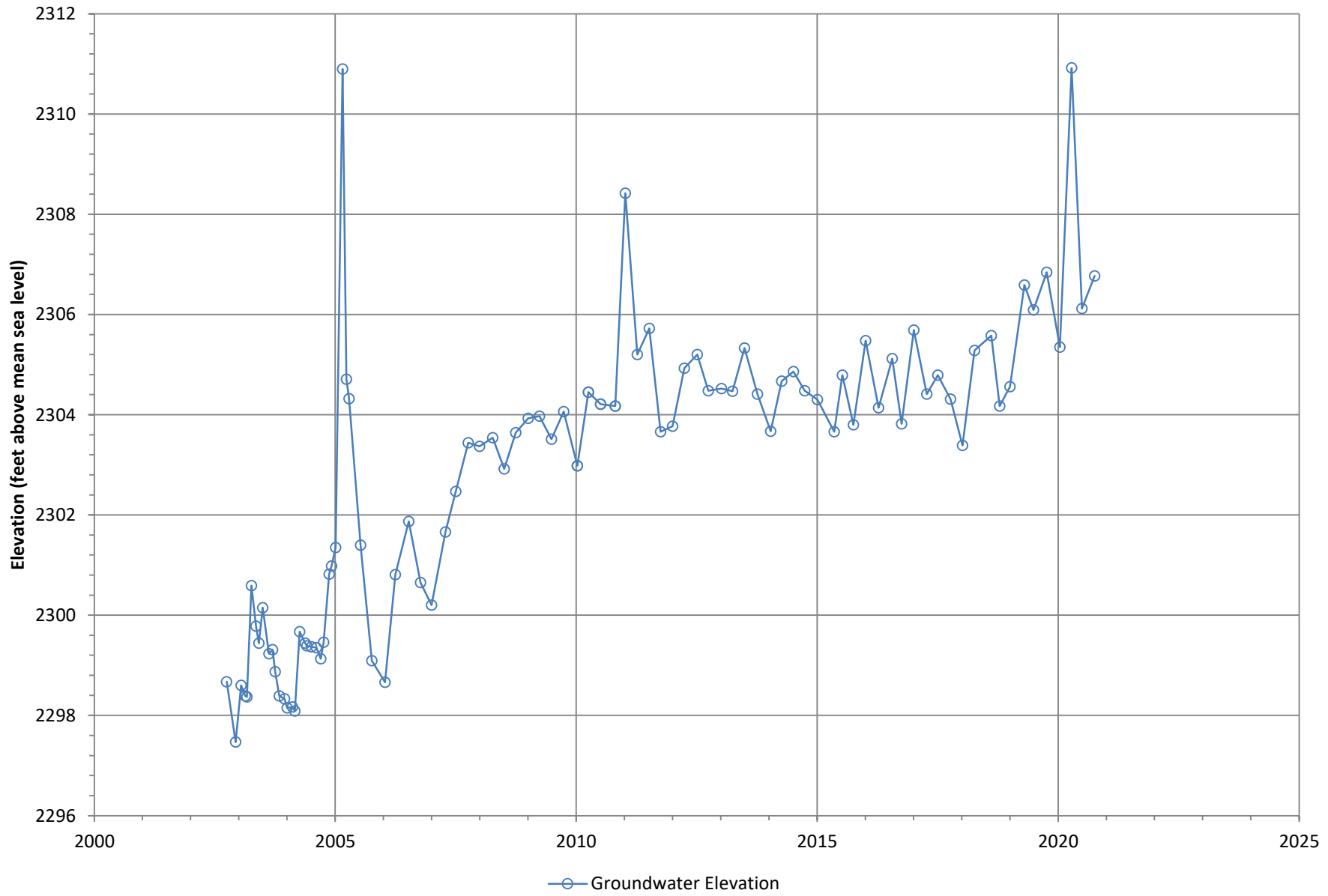
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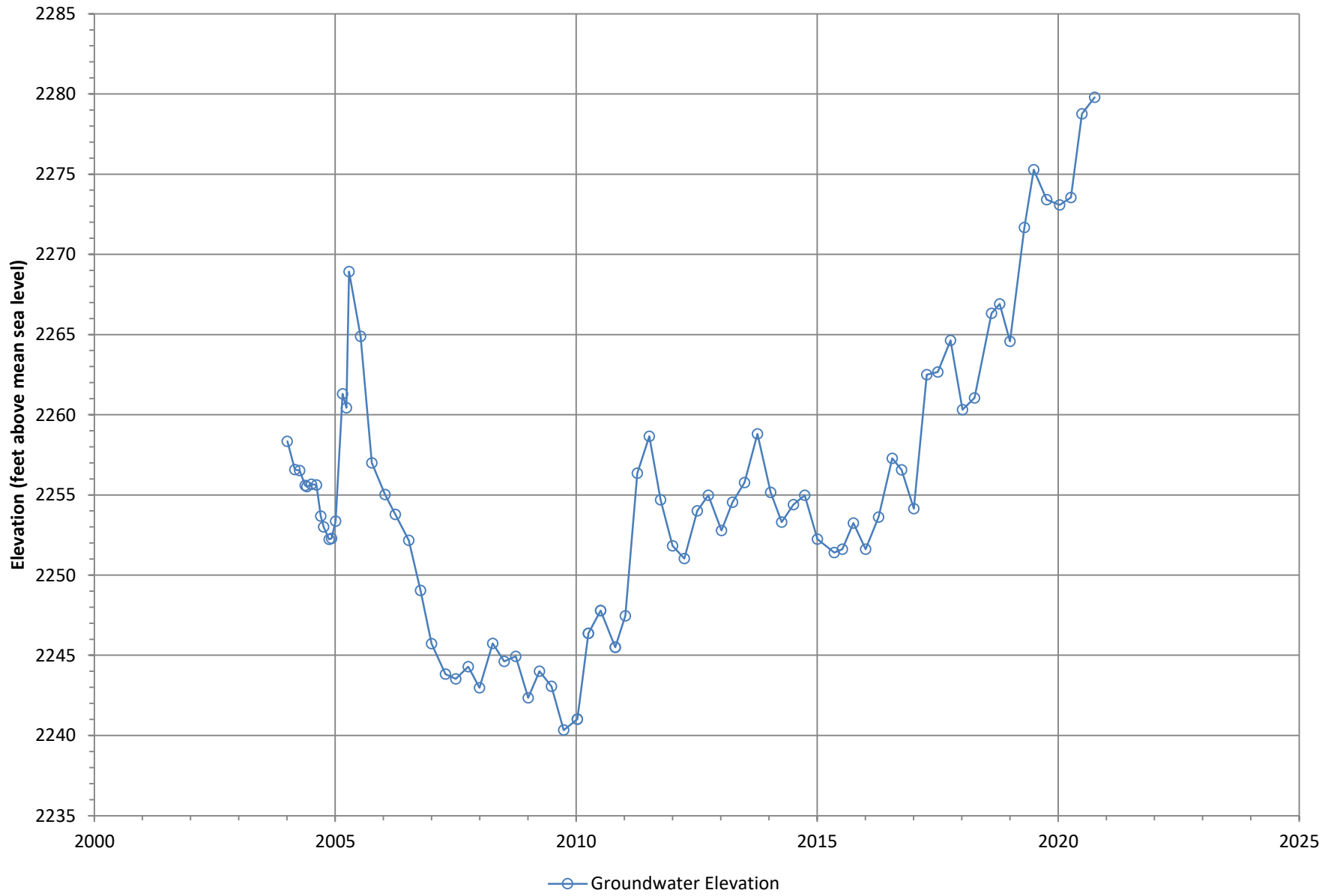


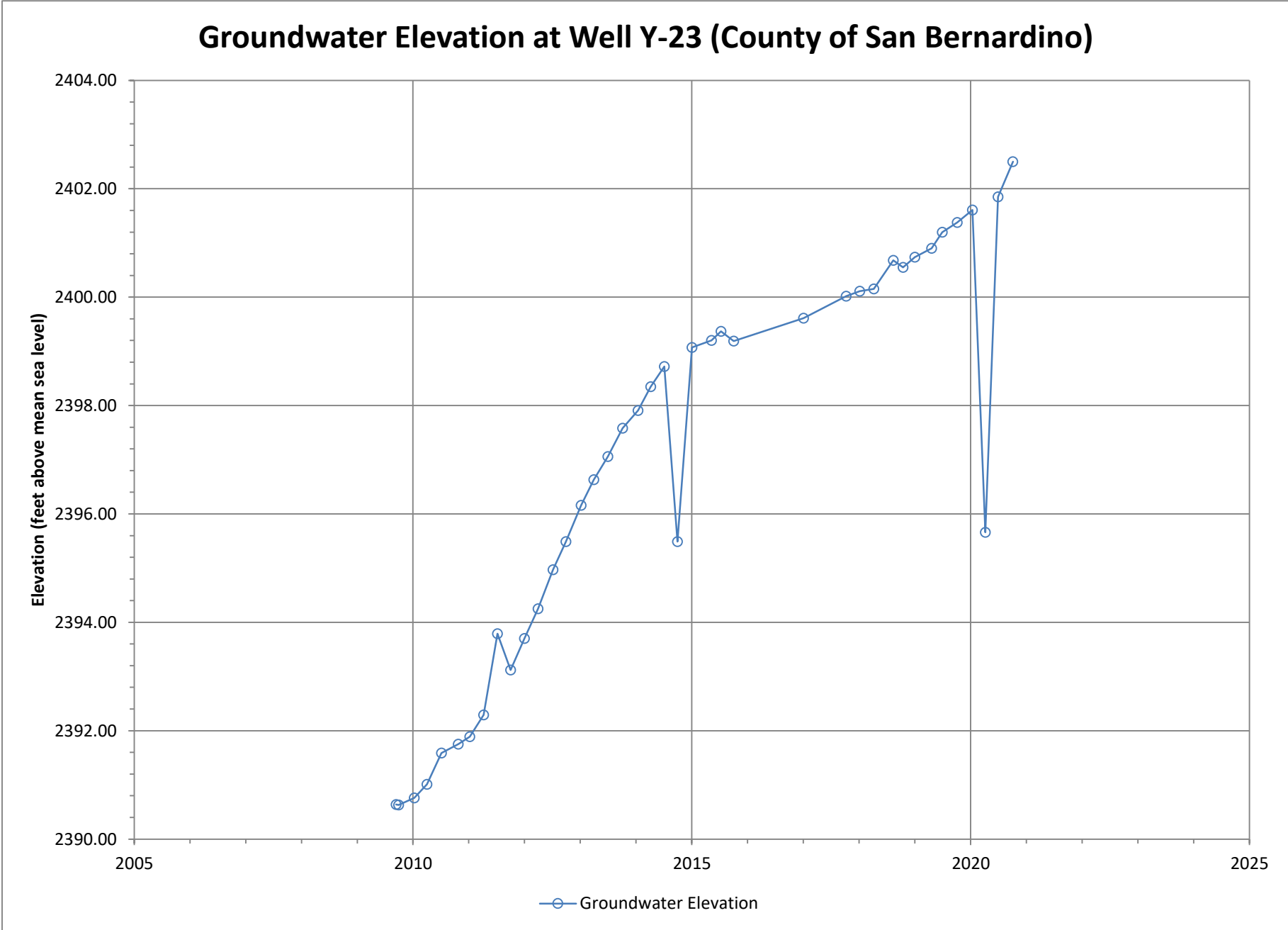


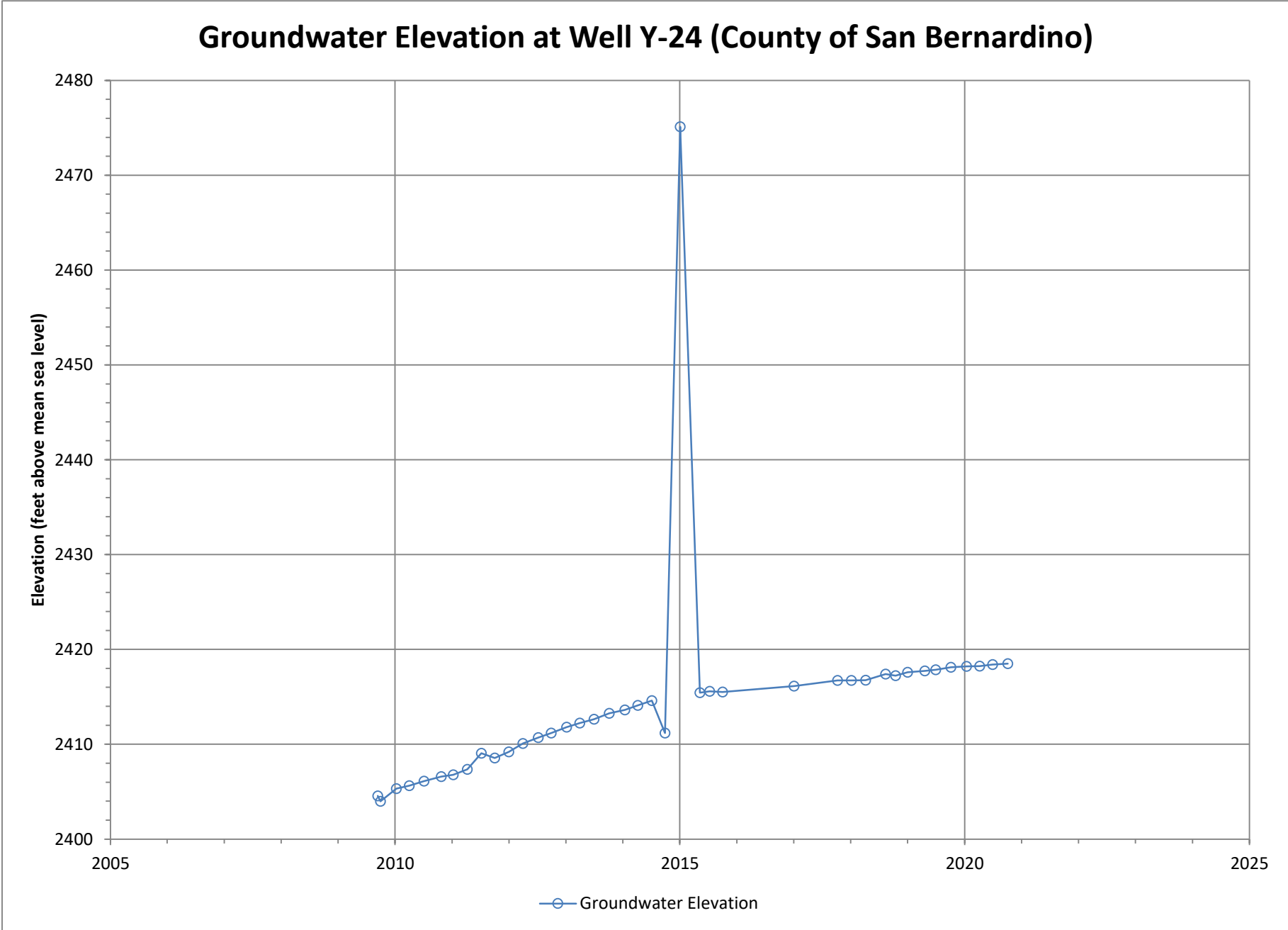
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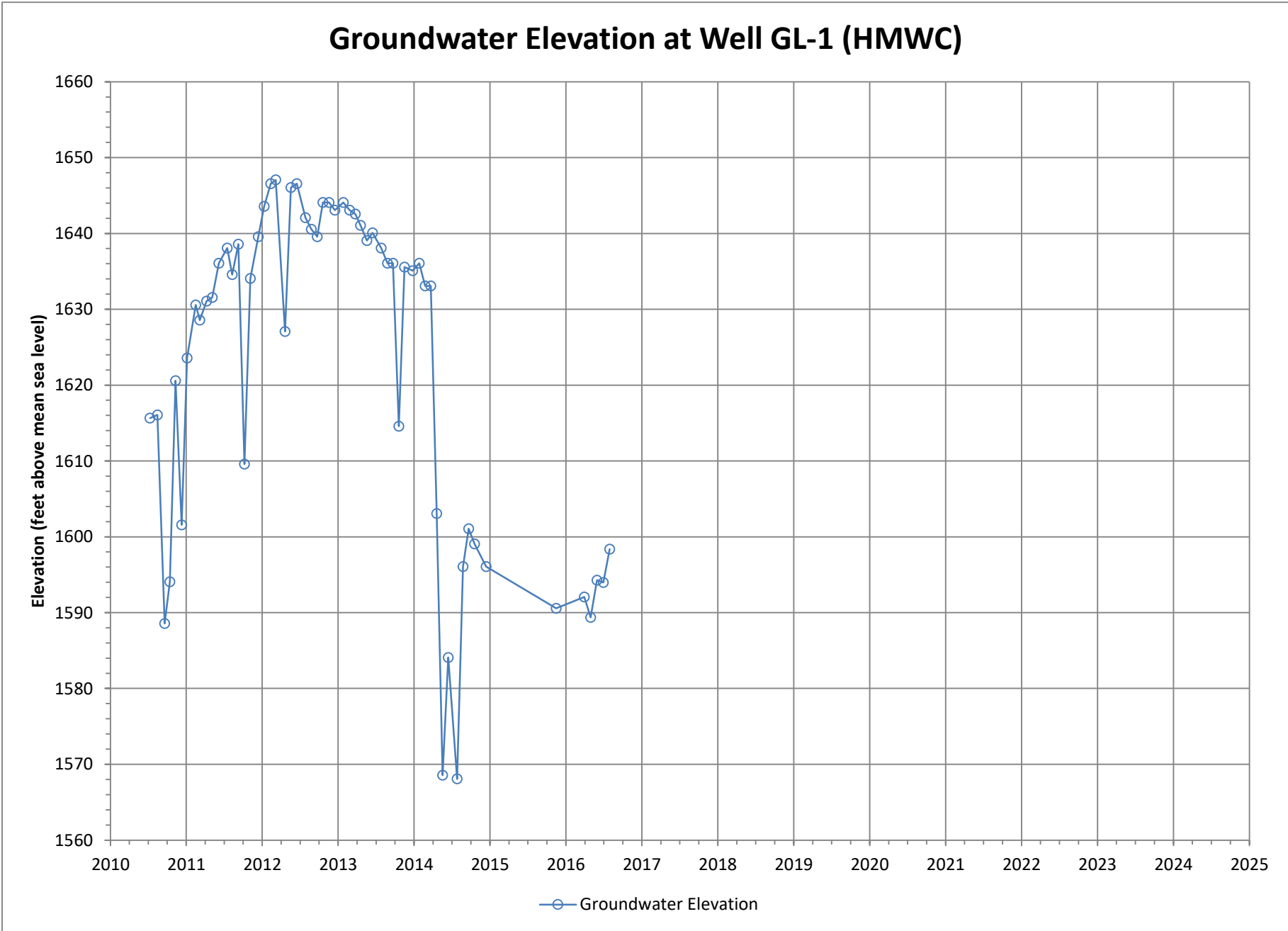


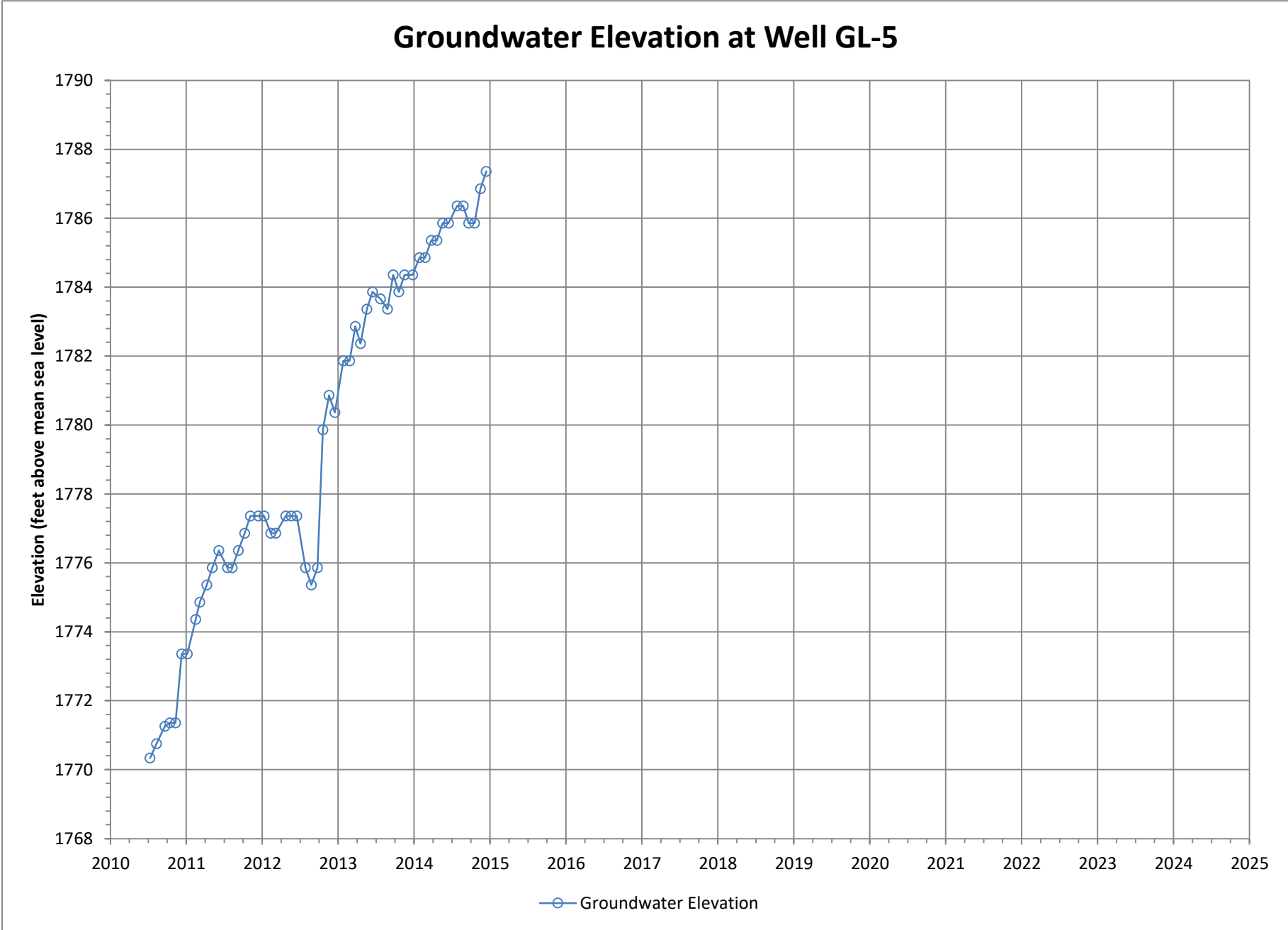
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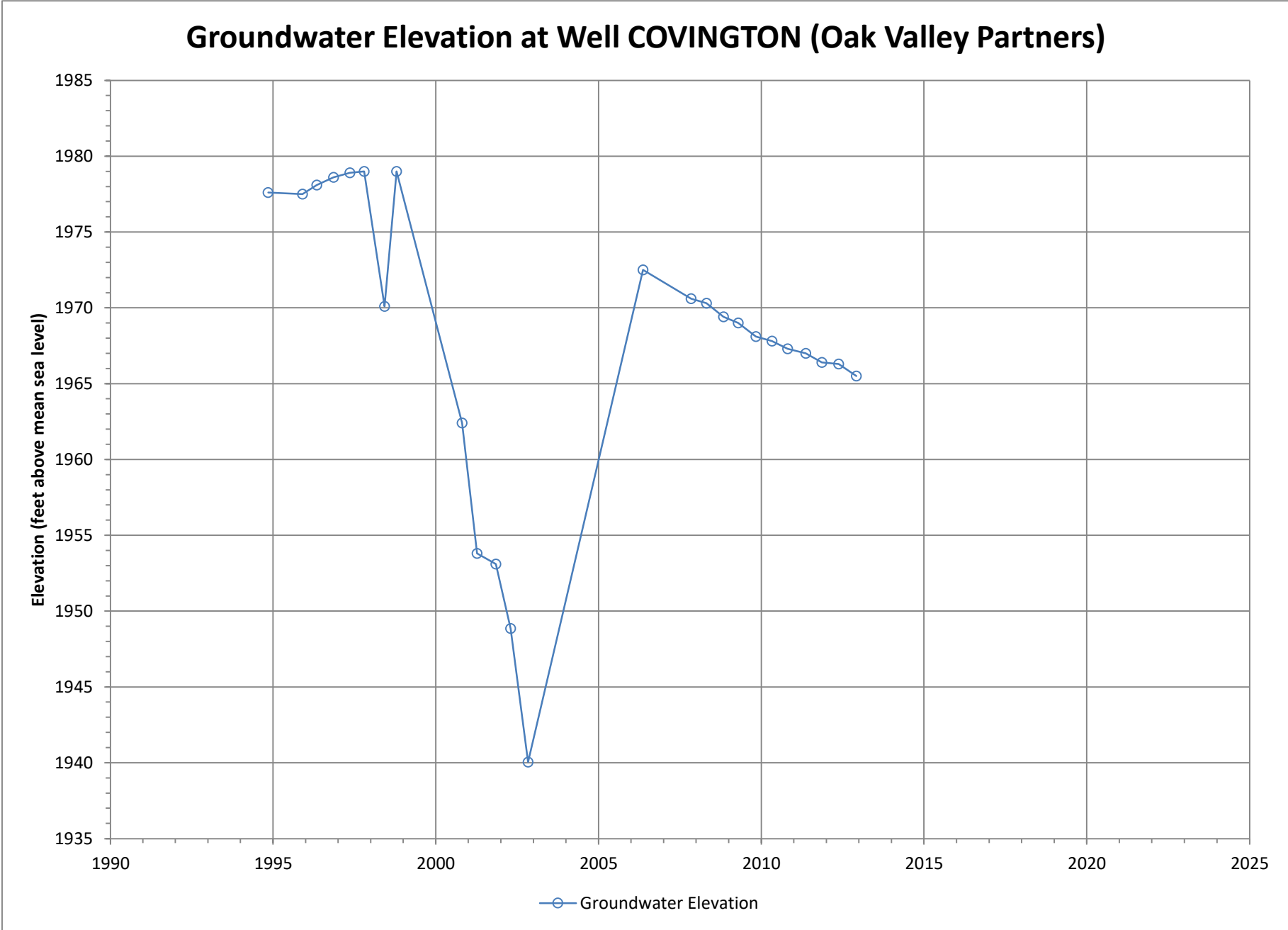


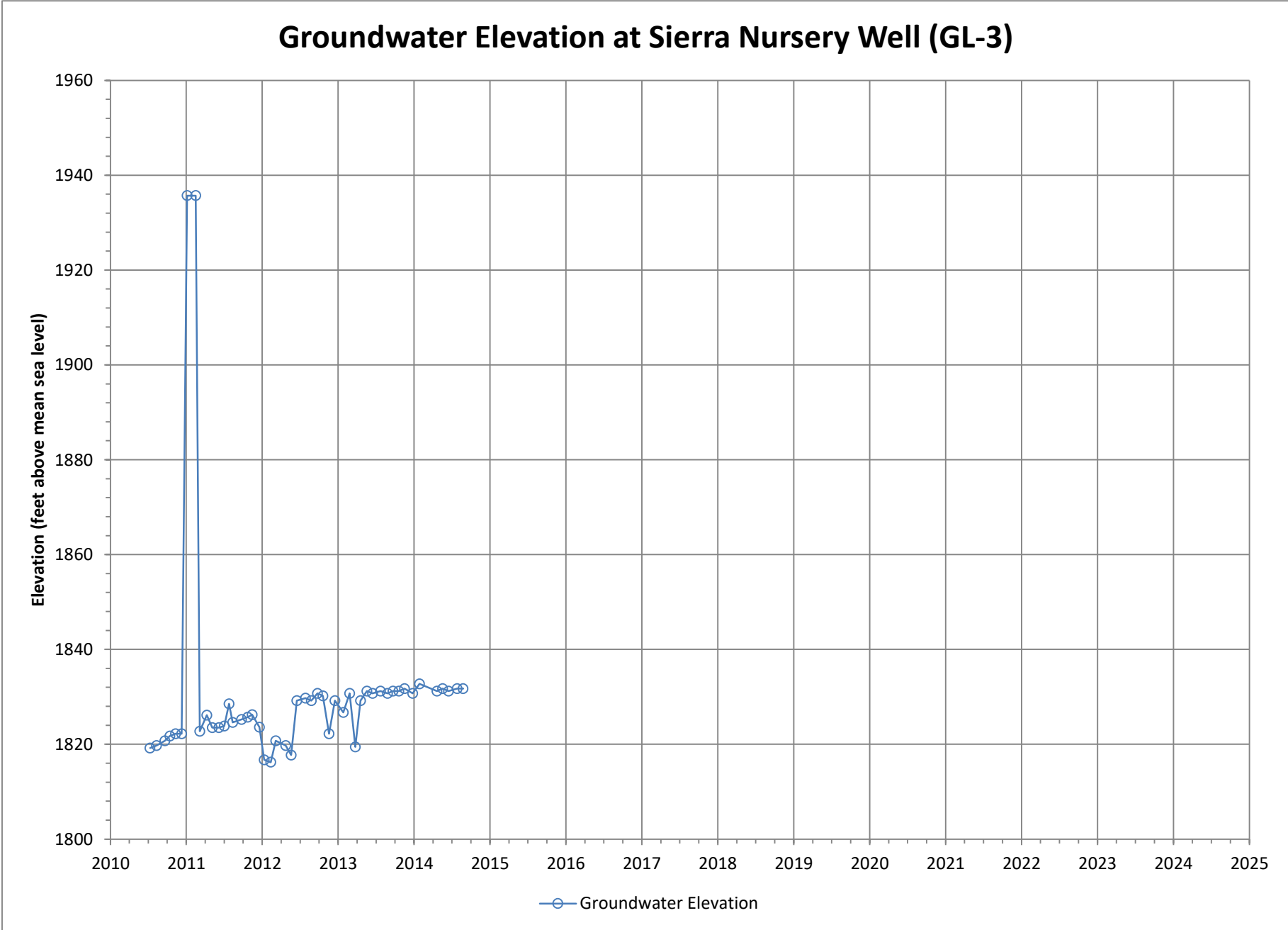


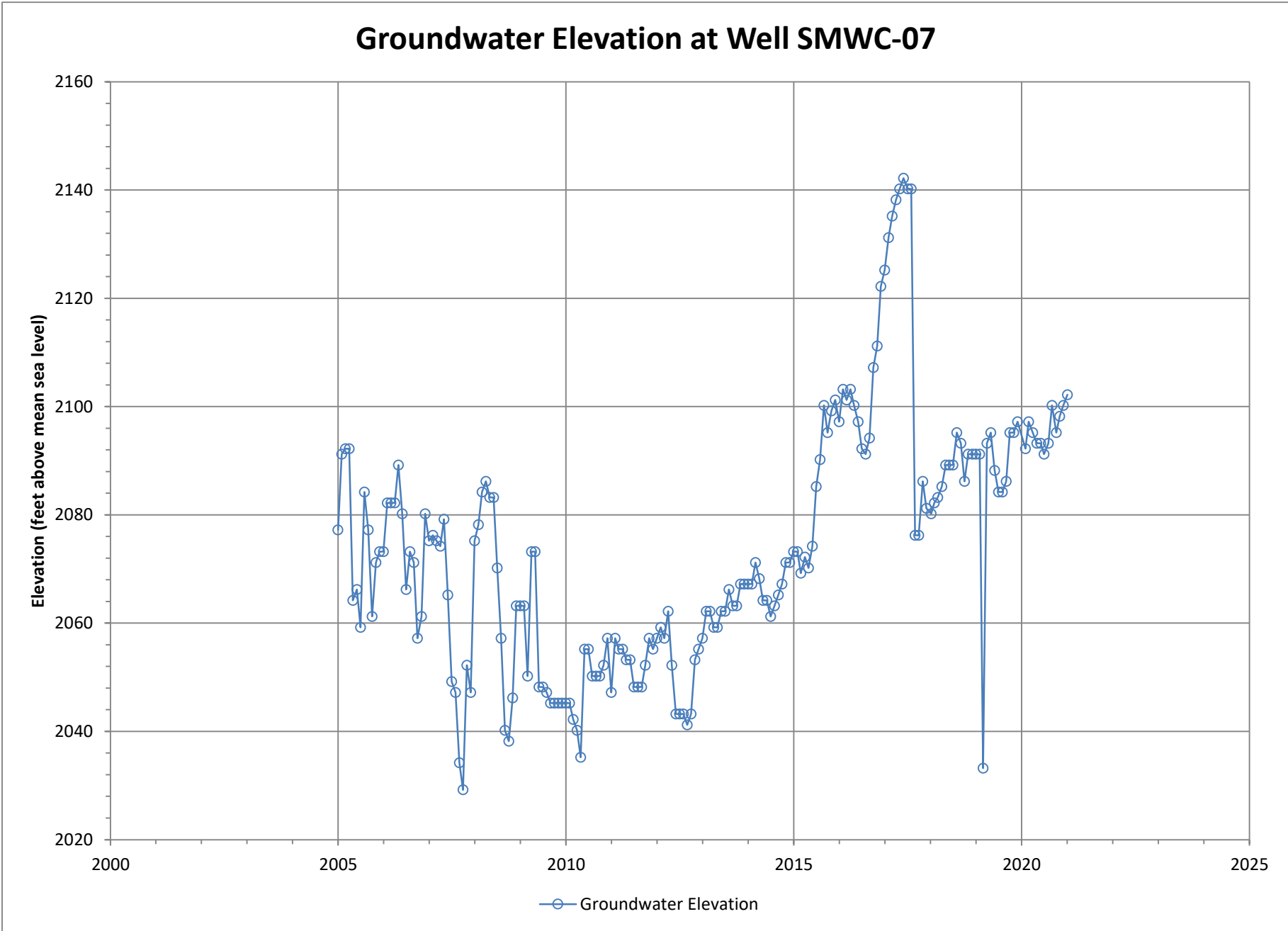












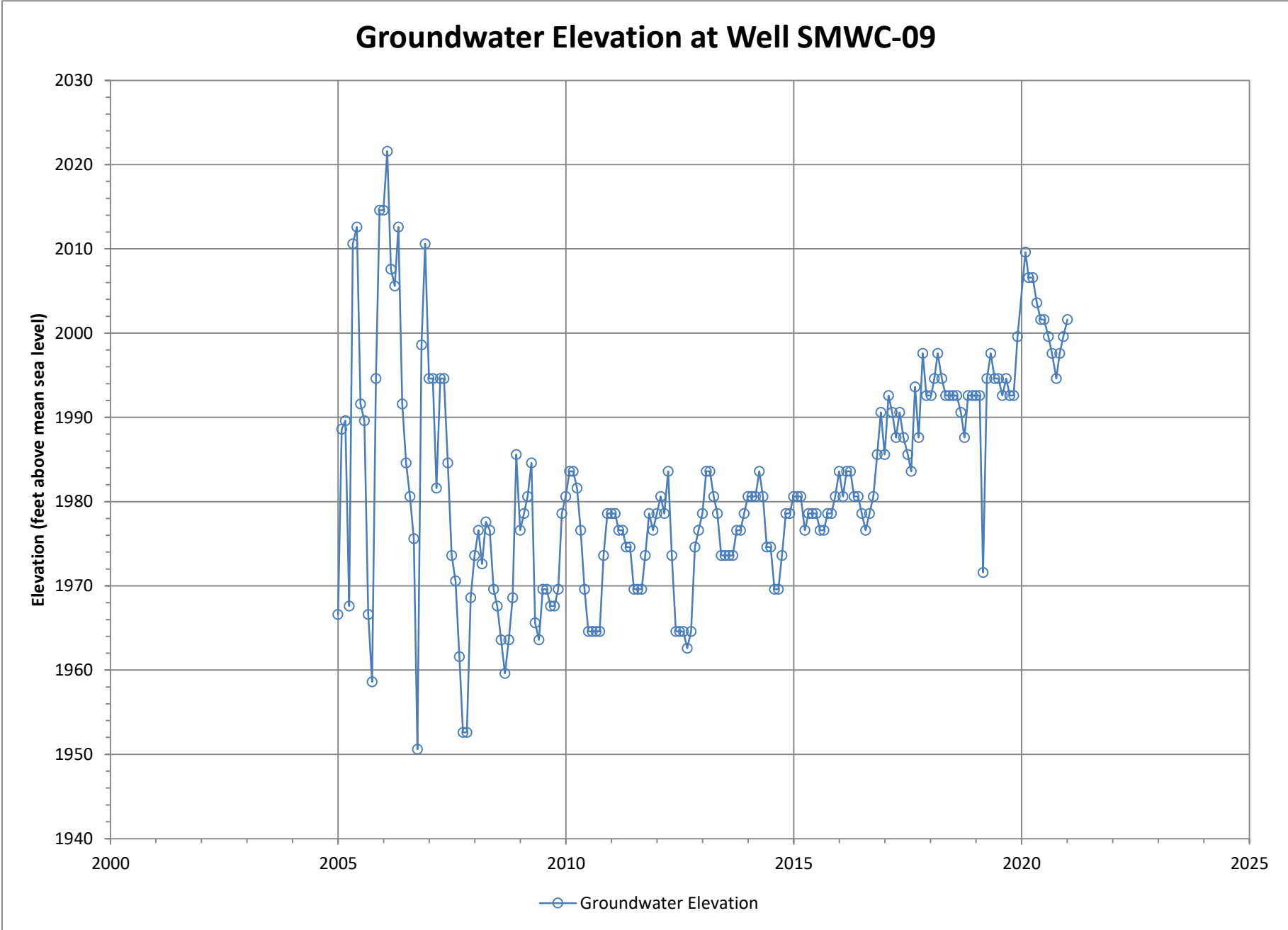
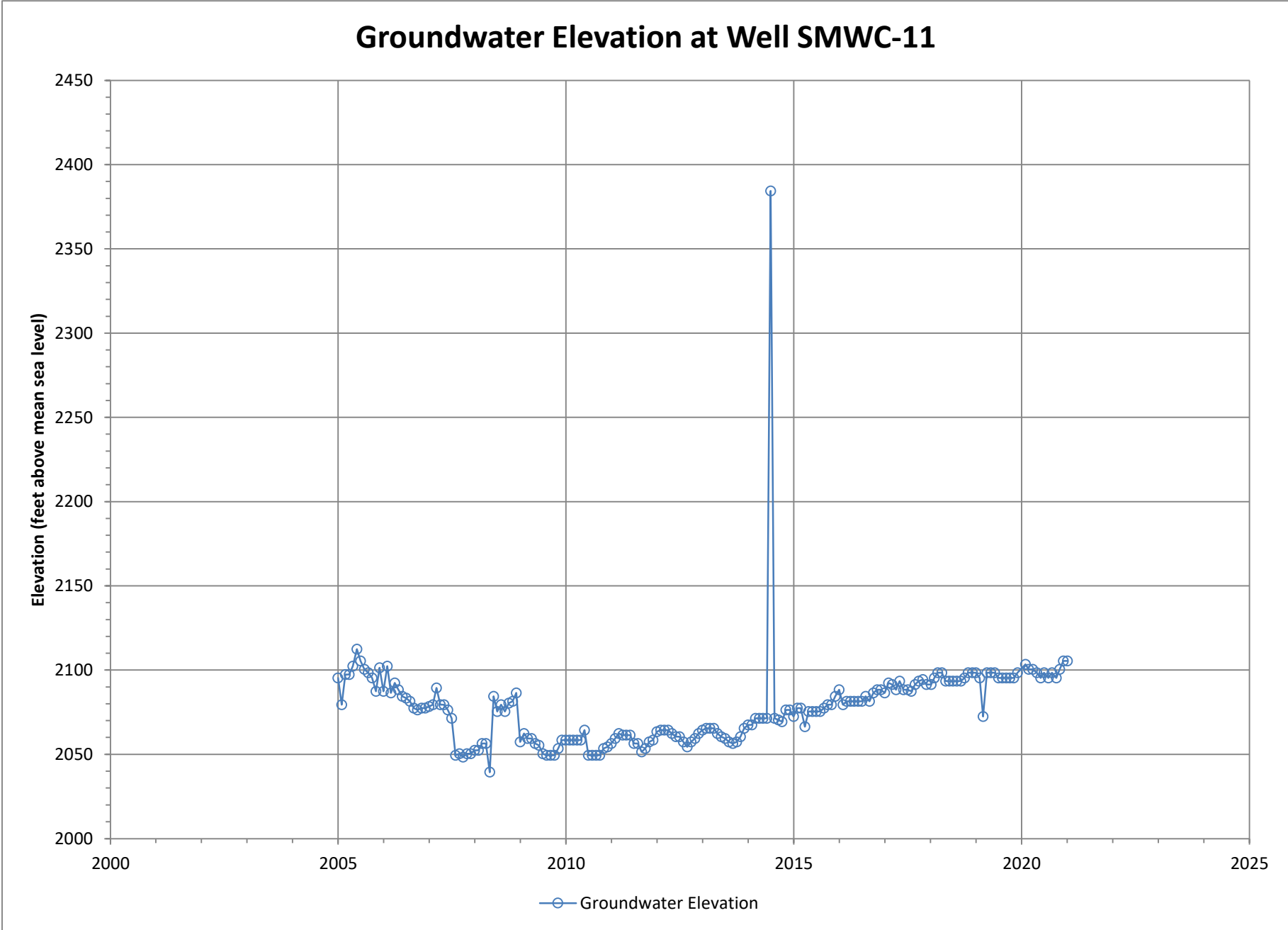


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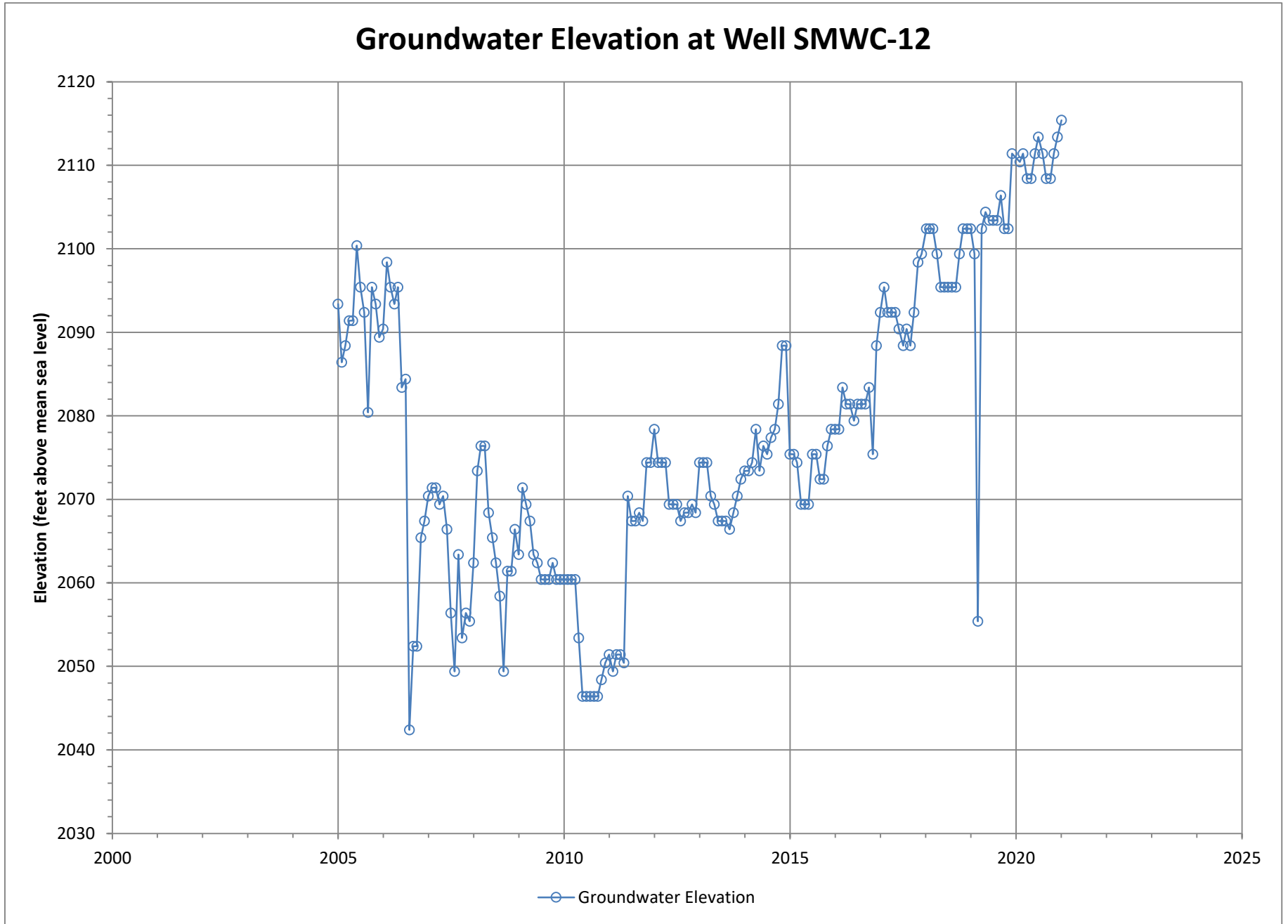
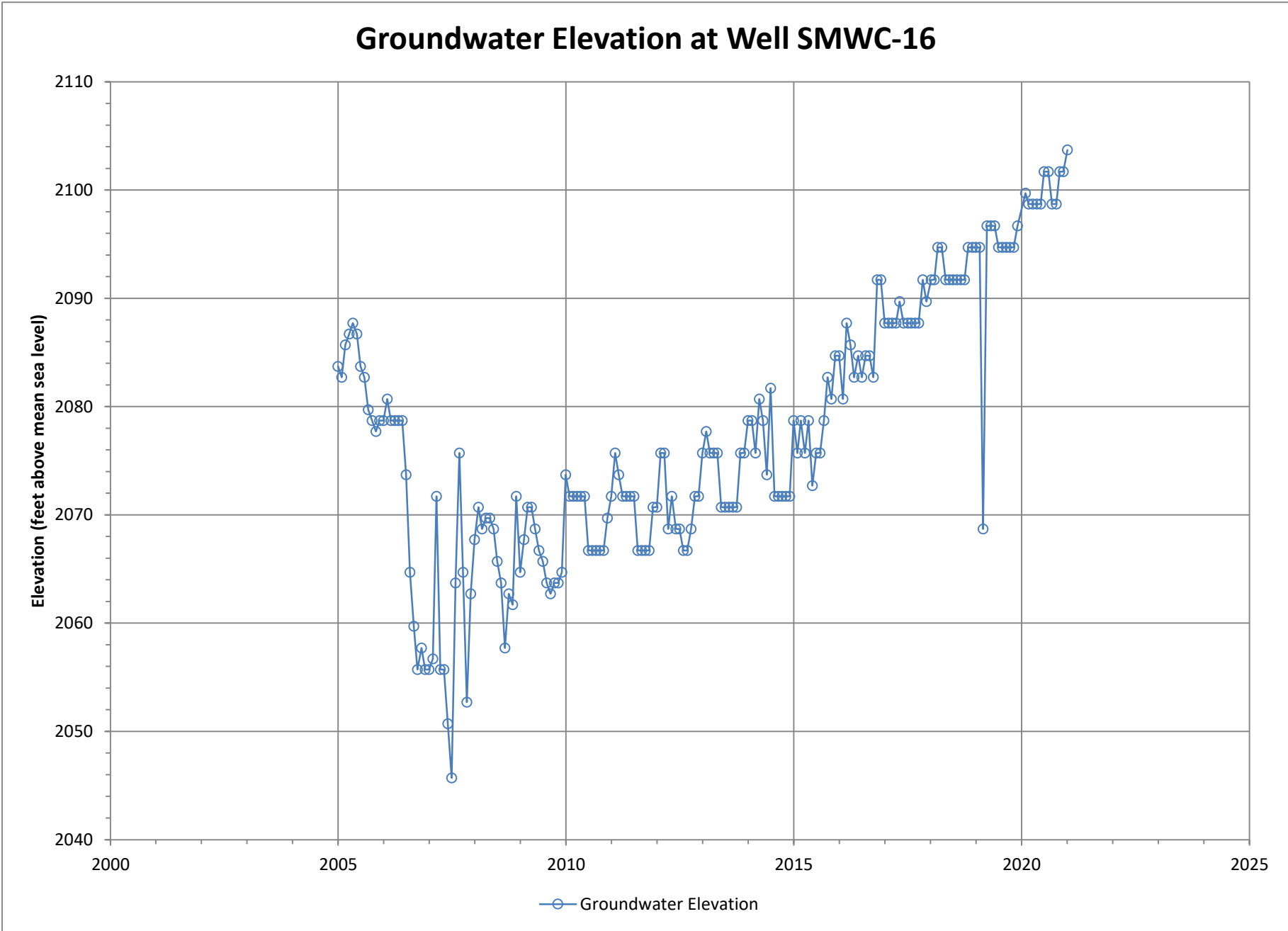
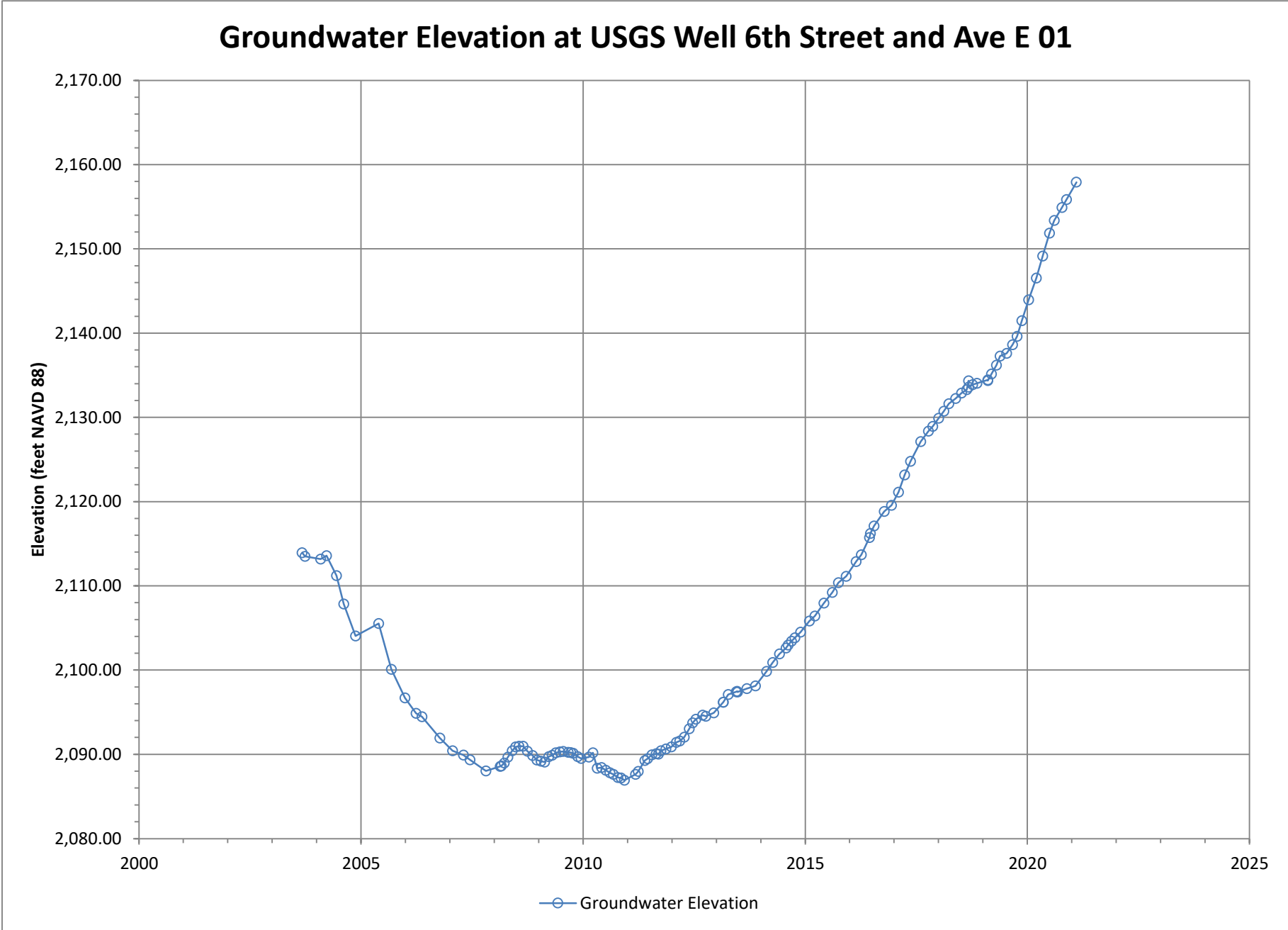
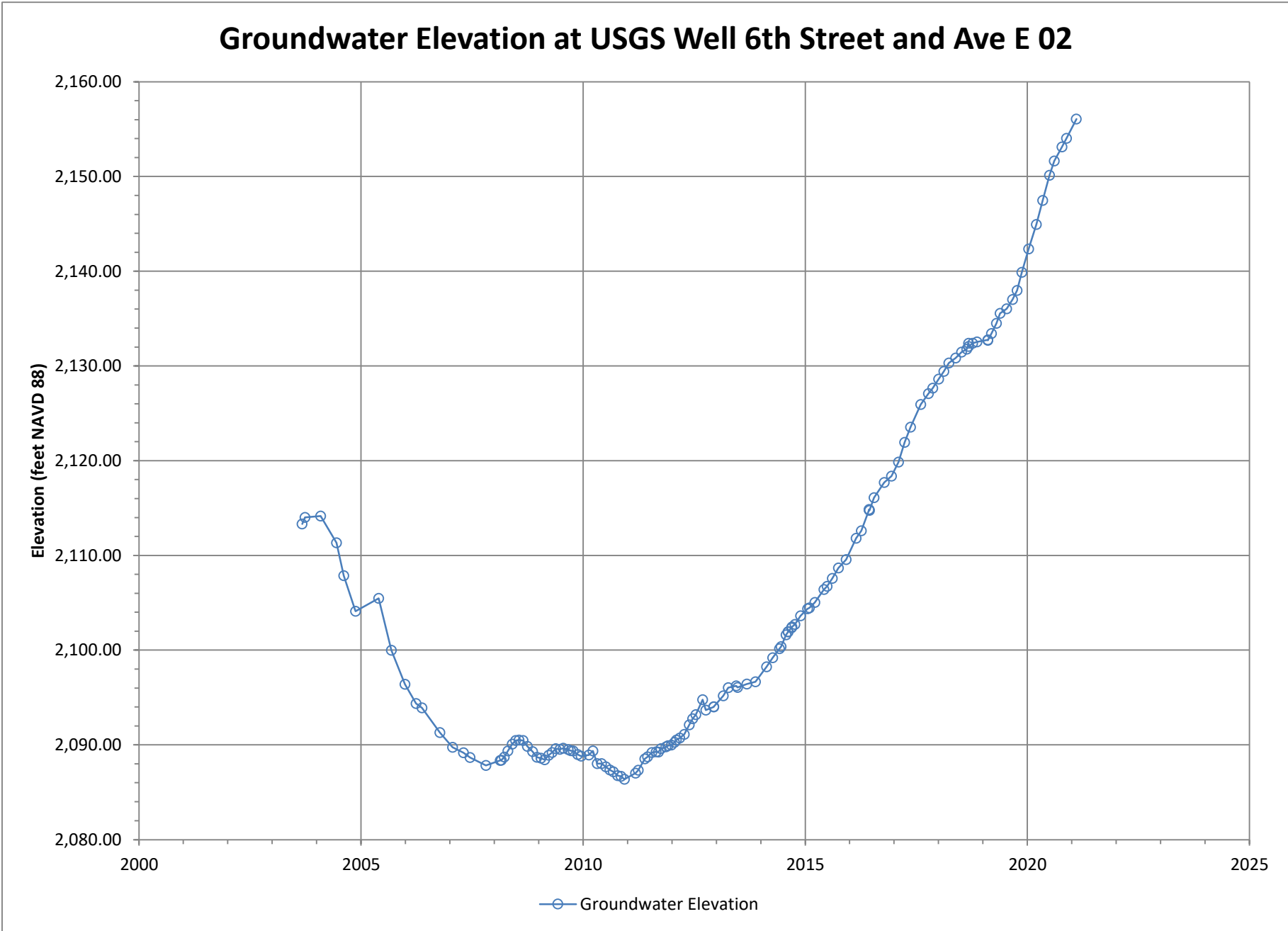
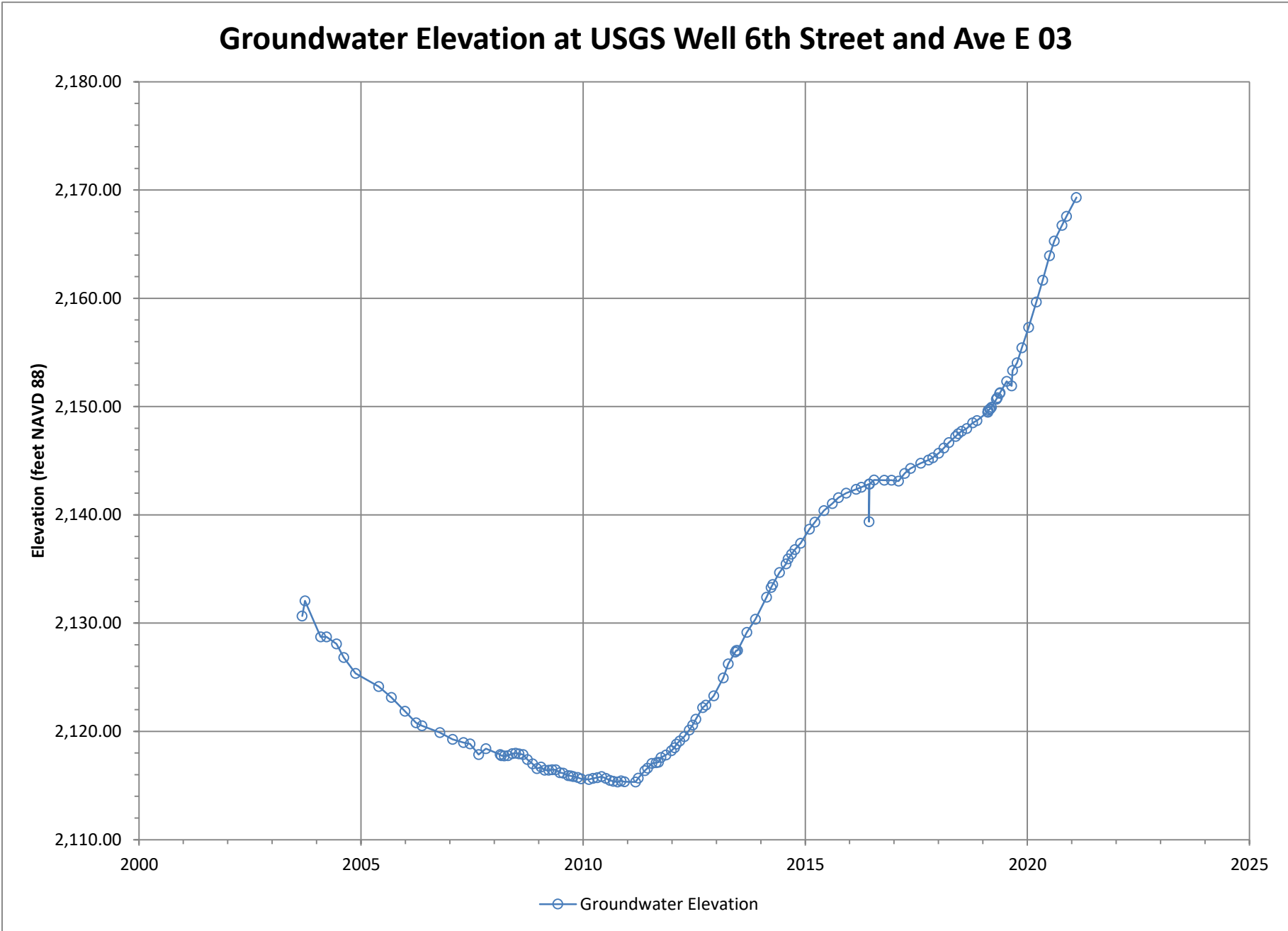


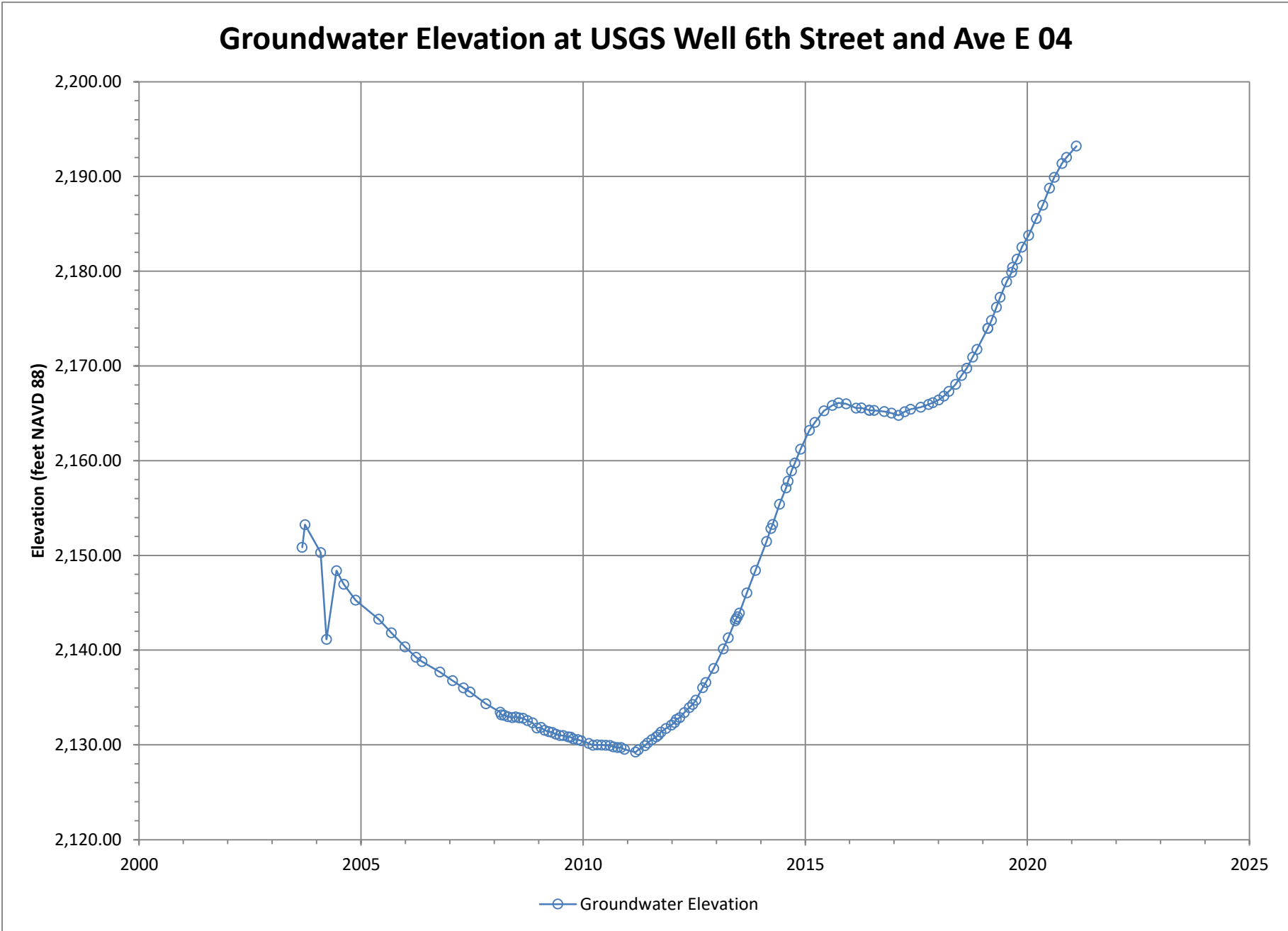
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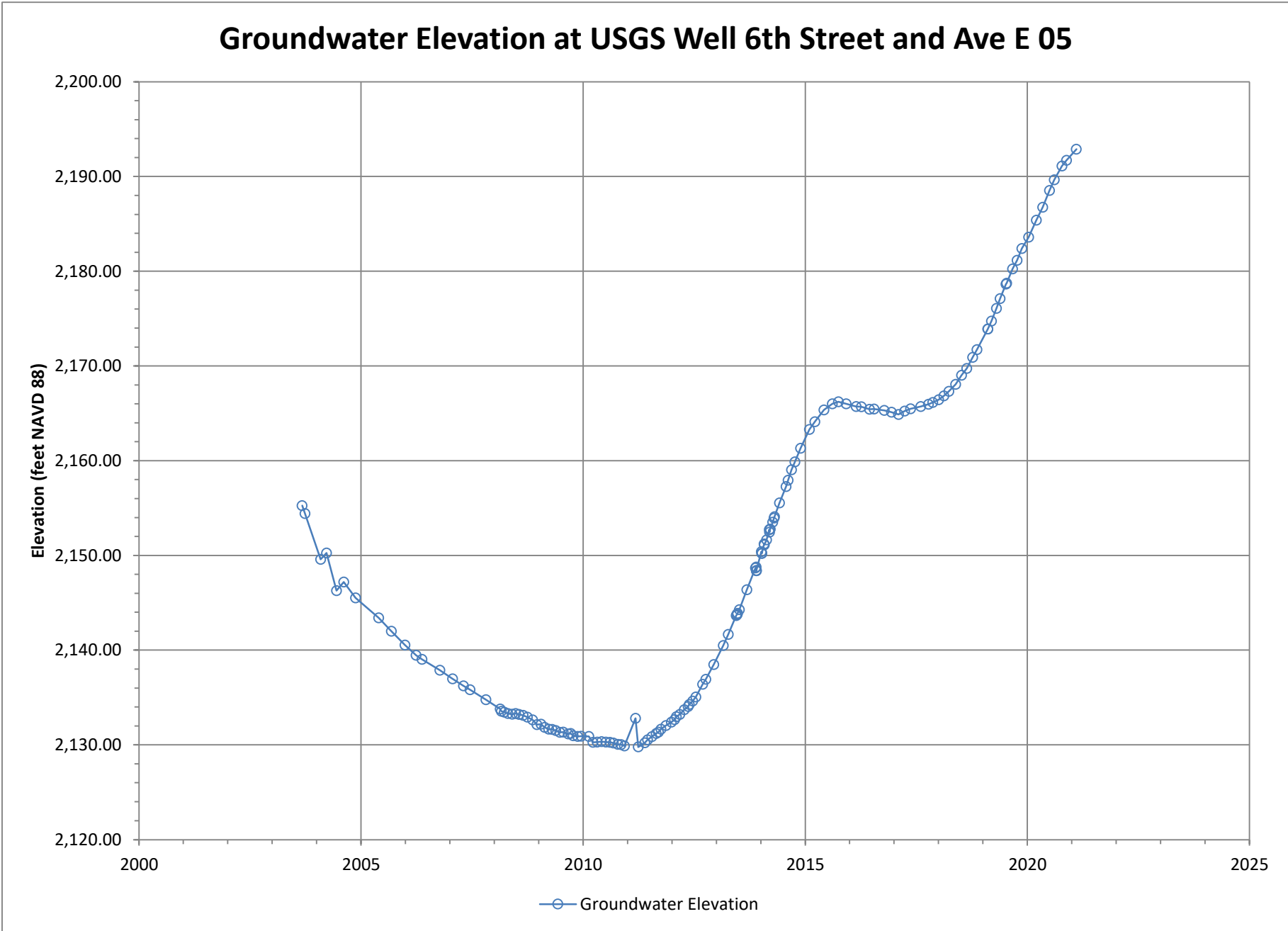




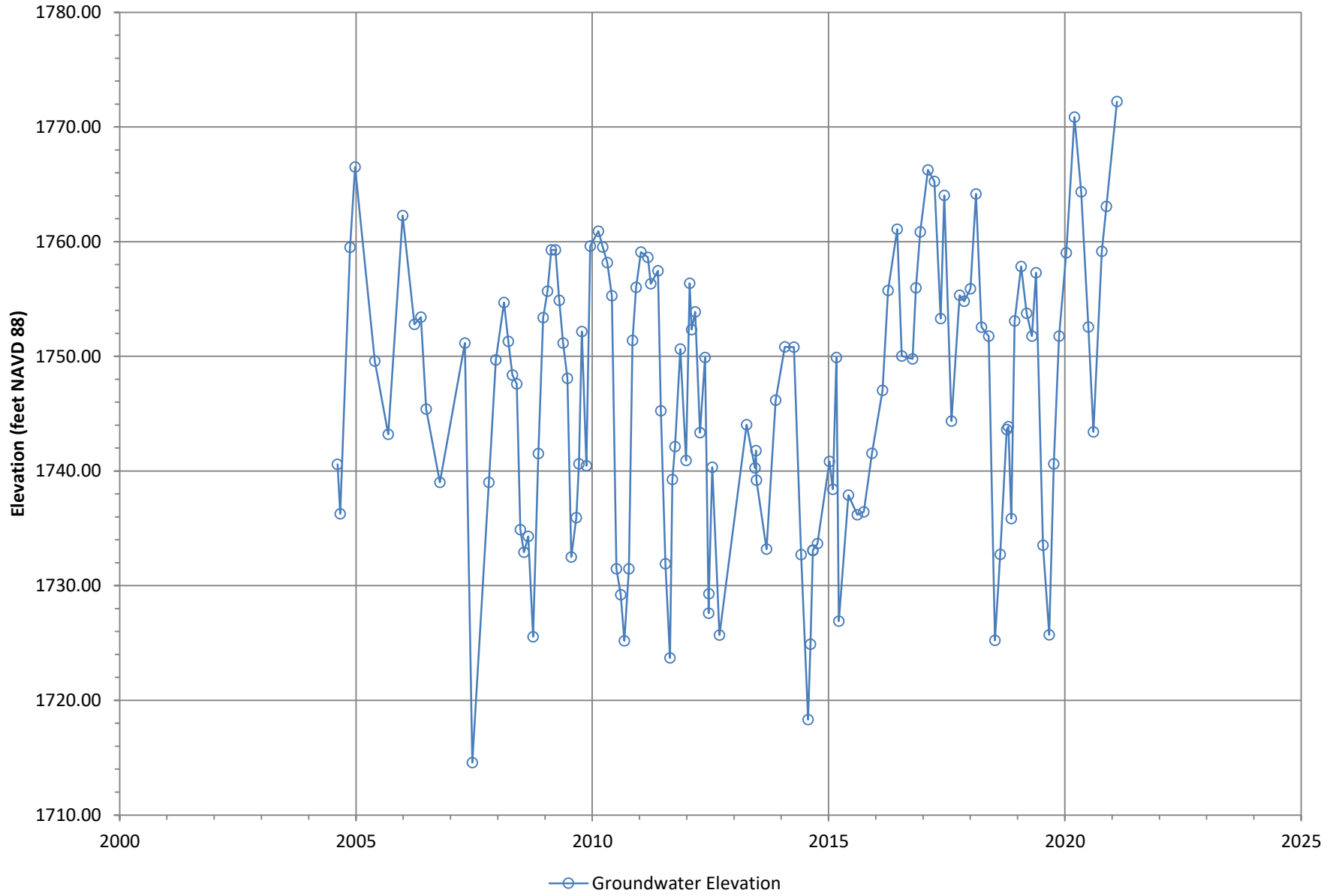


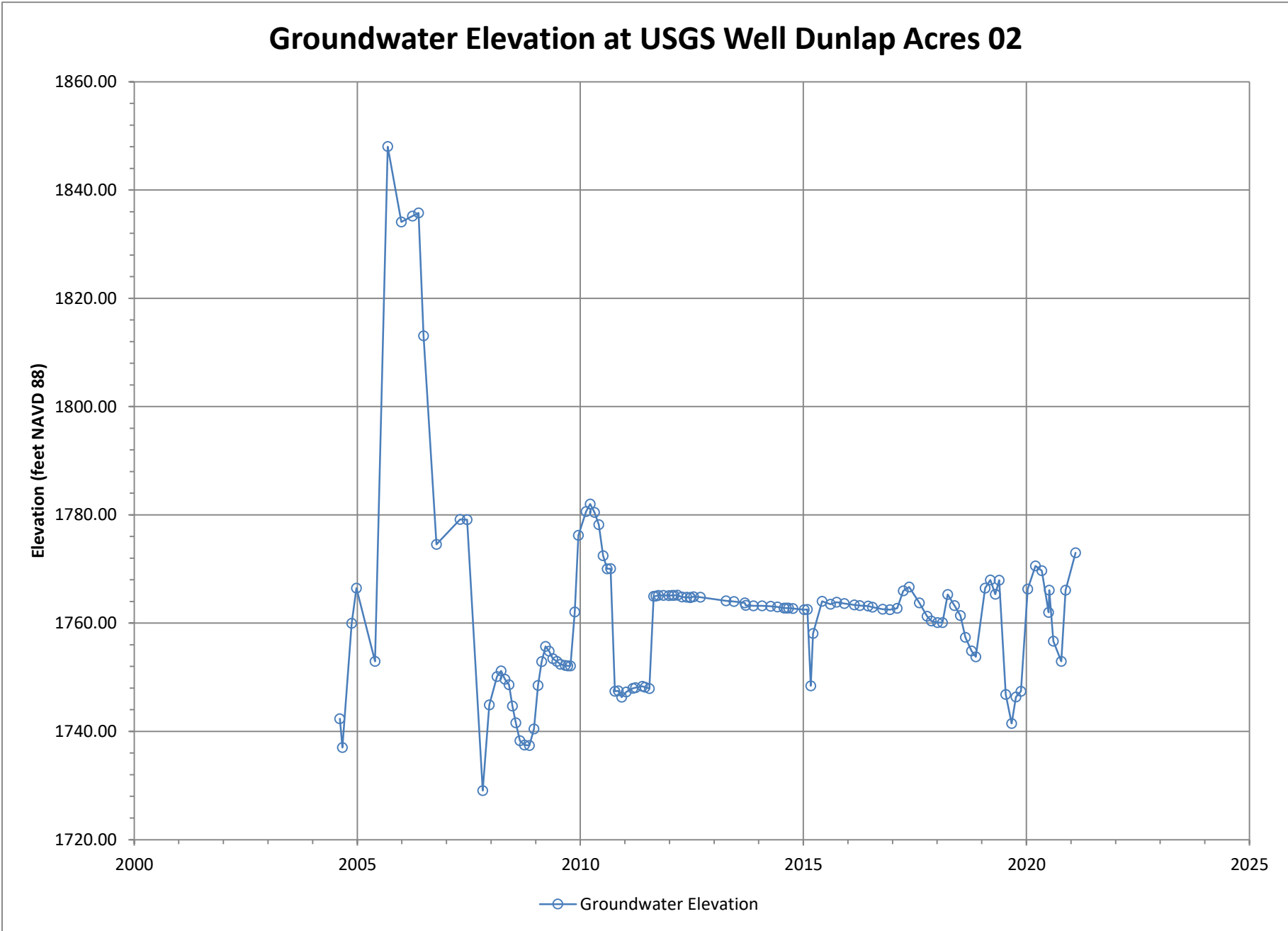




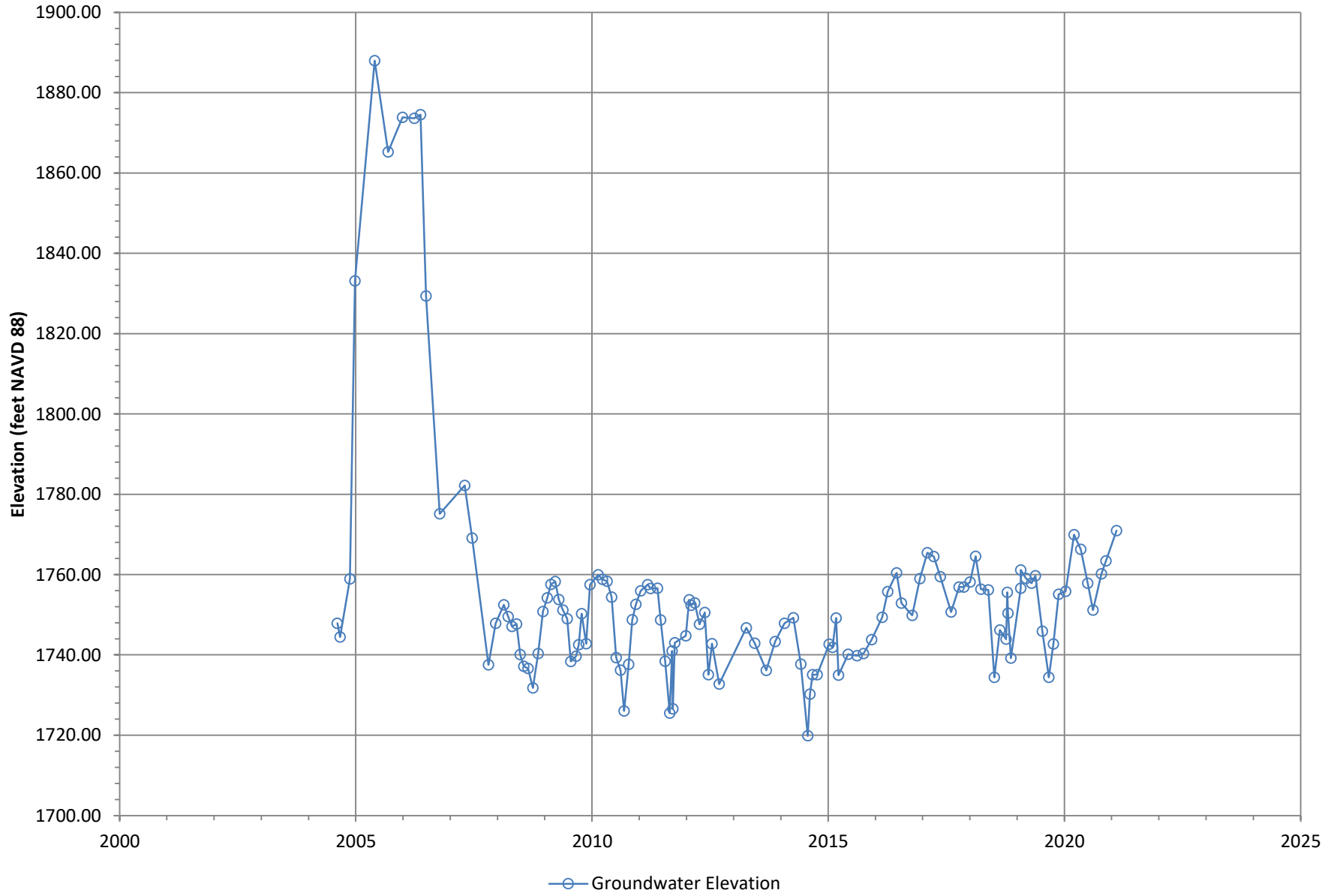


Groundwater Elevation at USGS Well Dunlap Acres 01

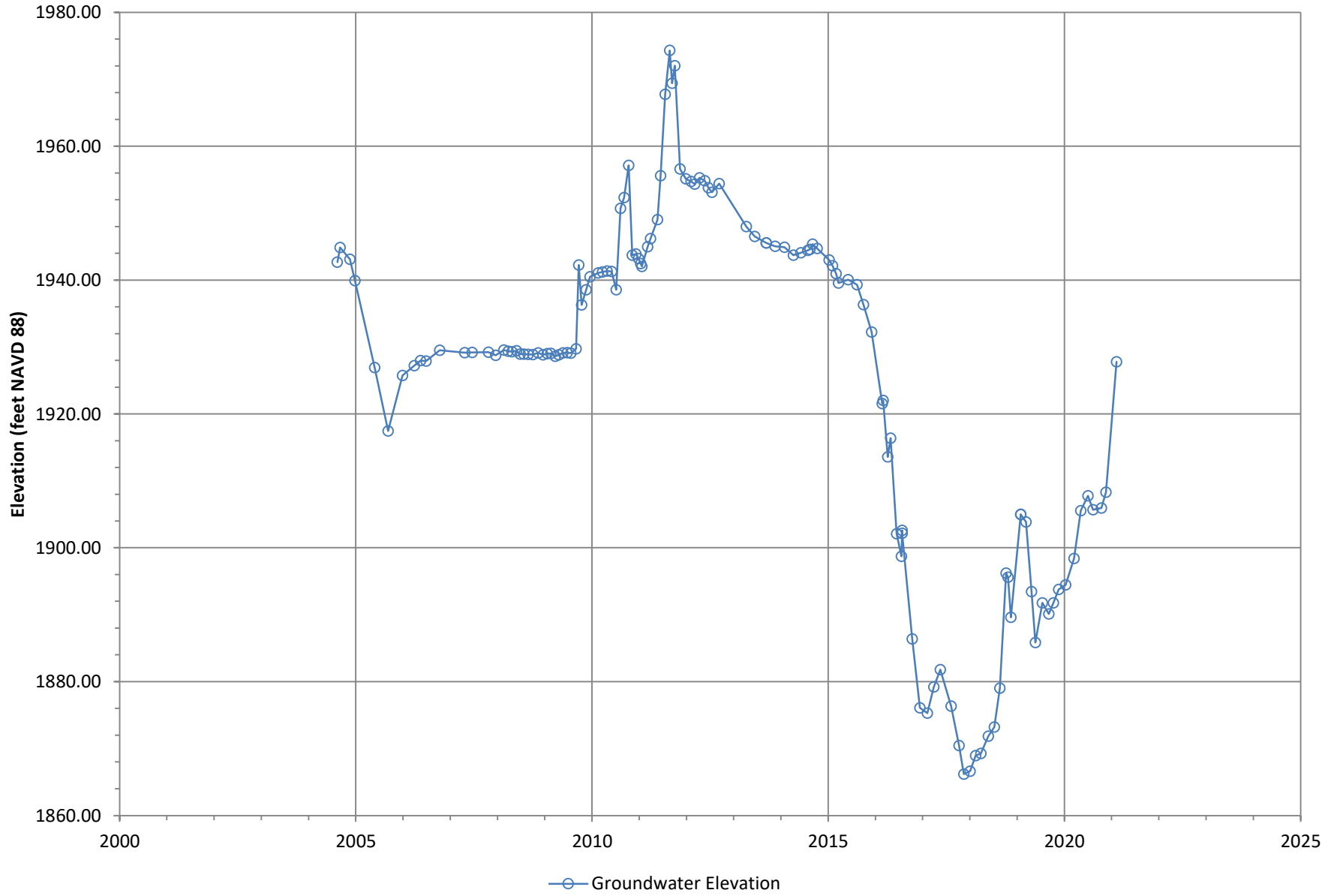


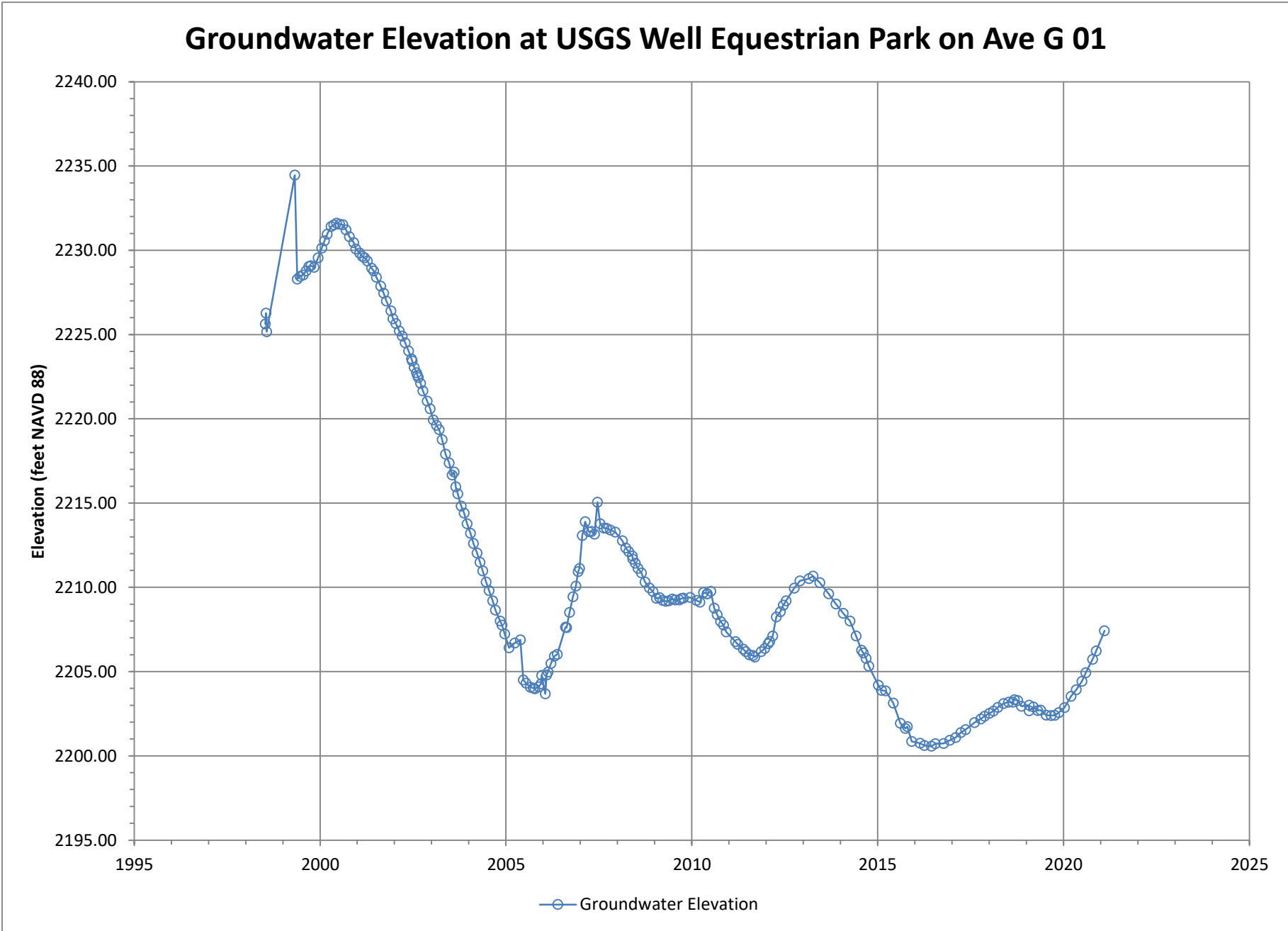


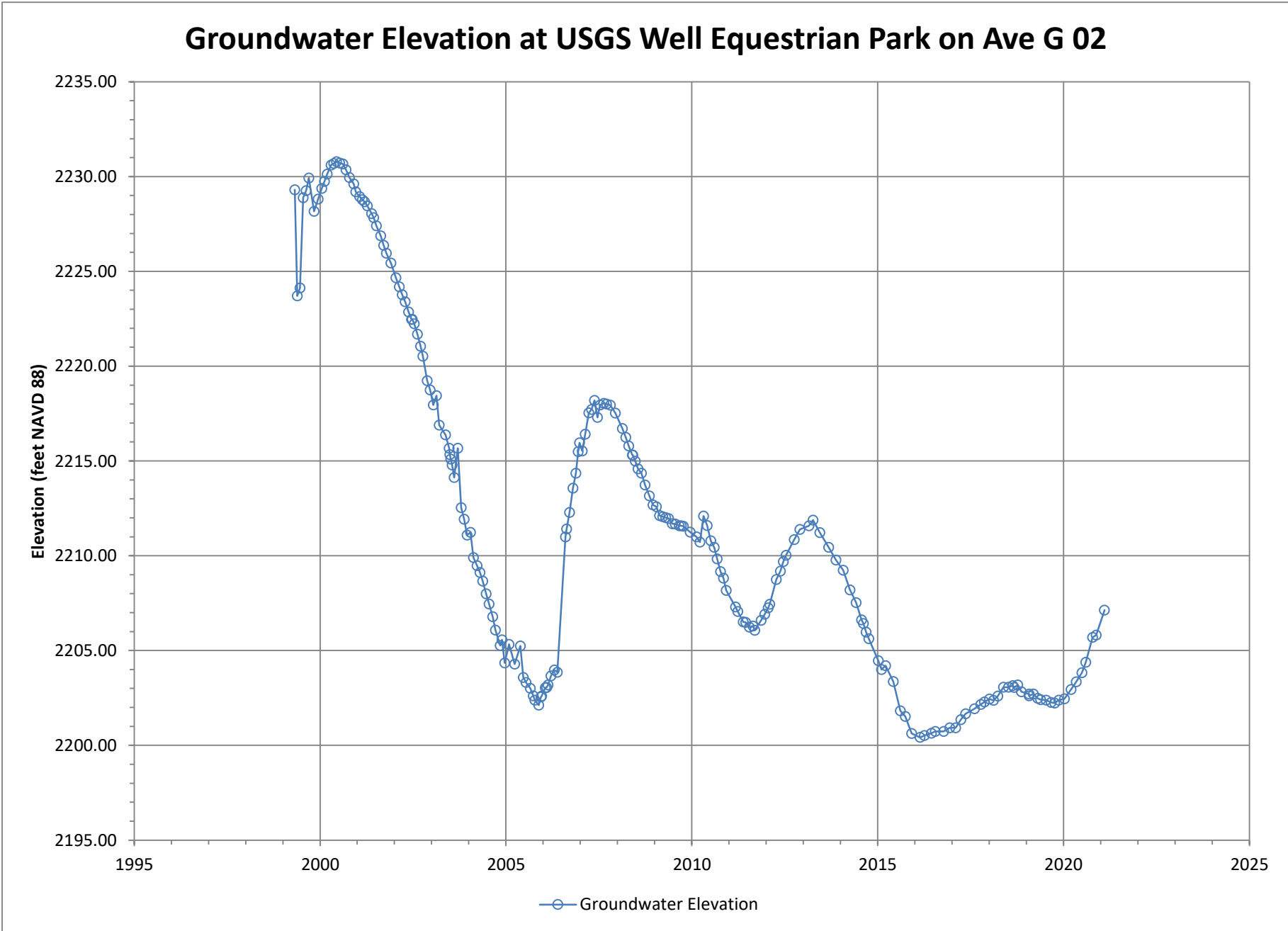
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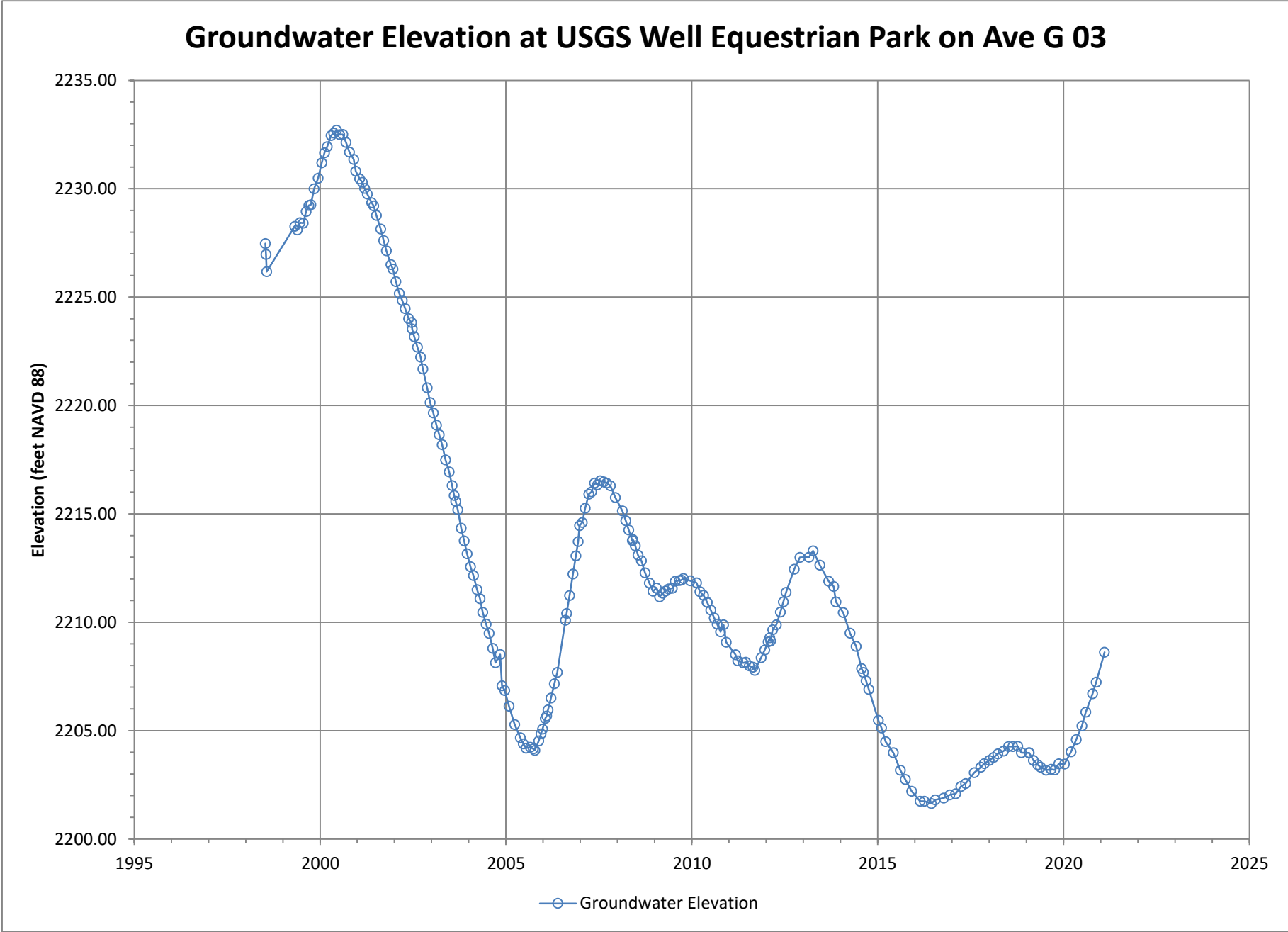


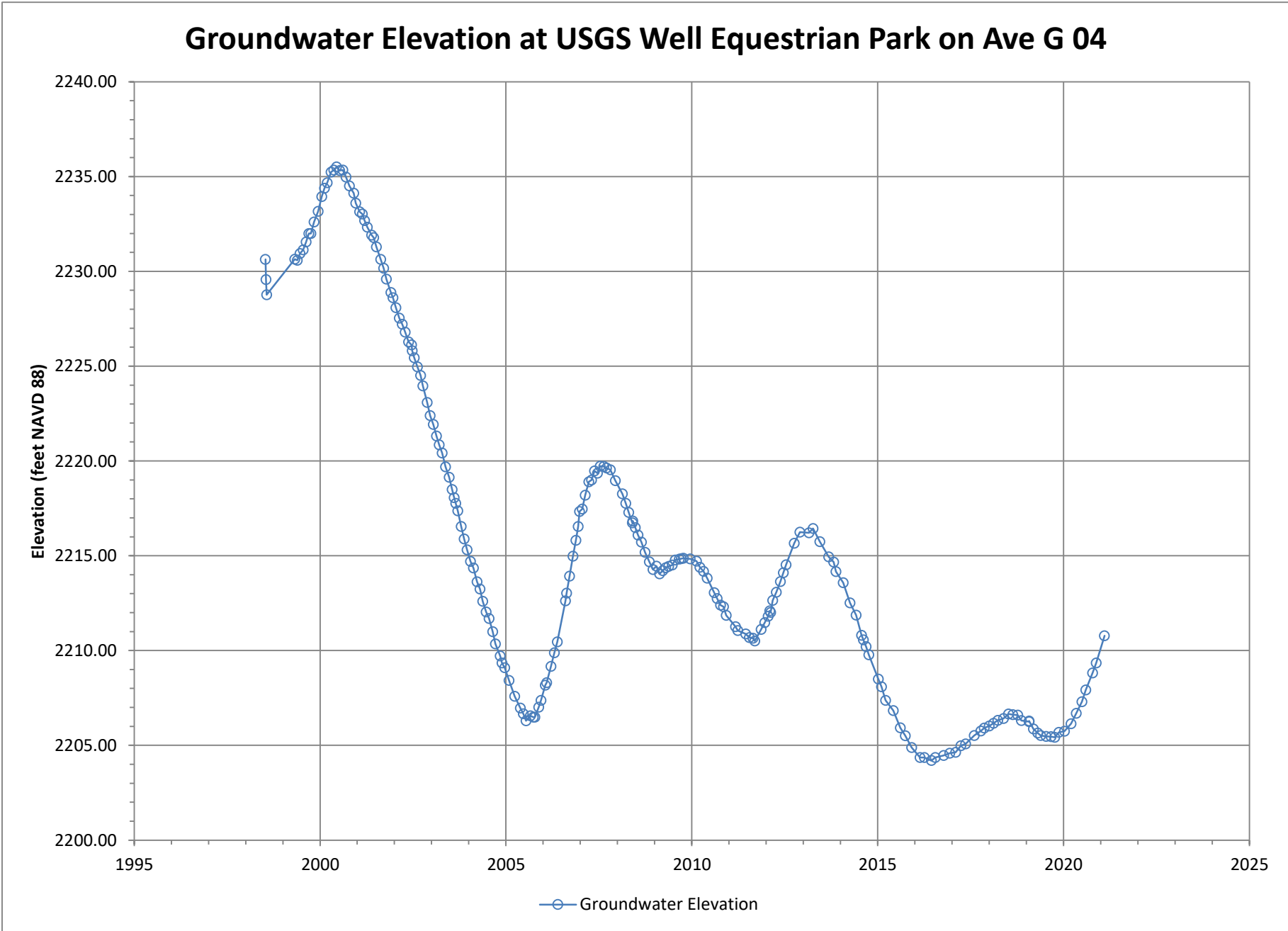
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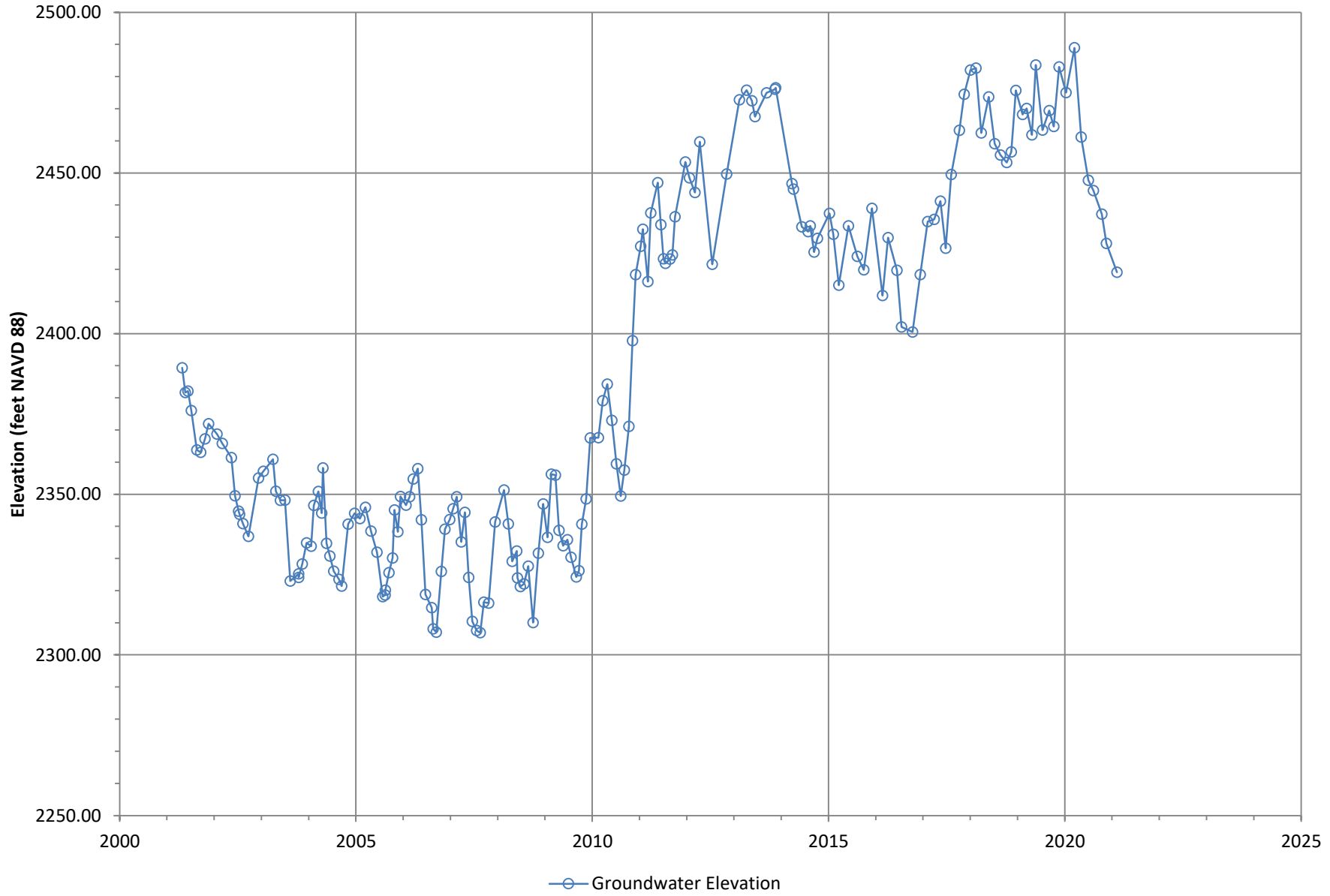




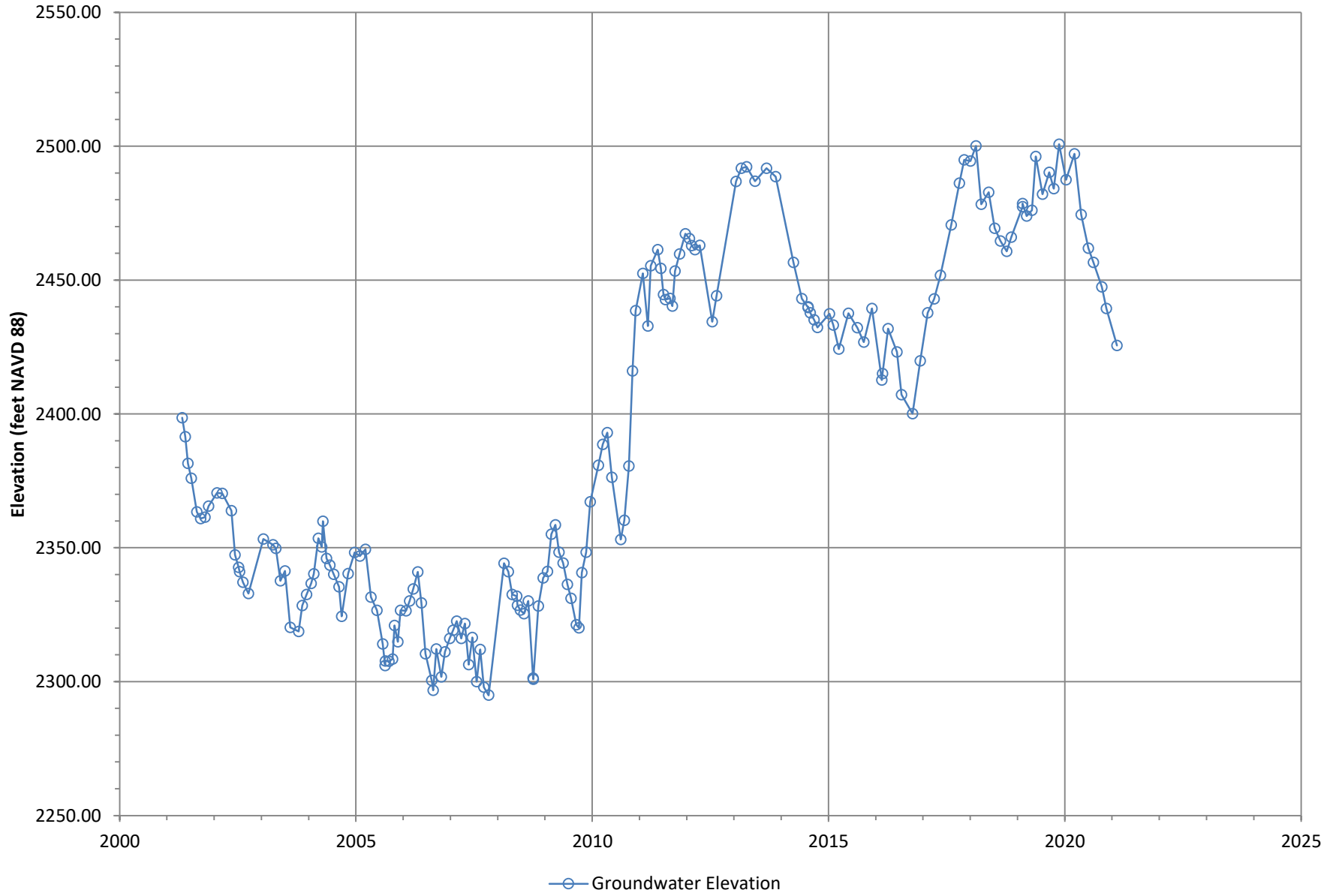


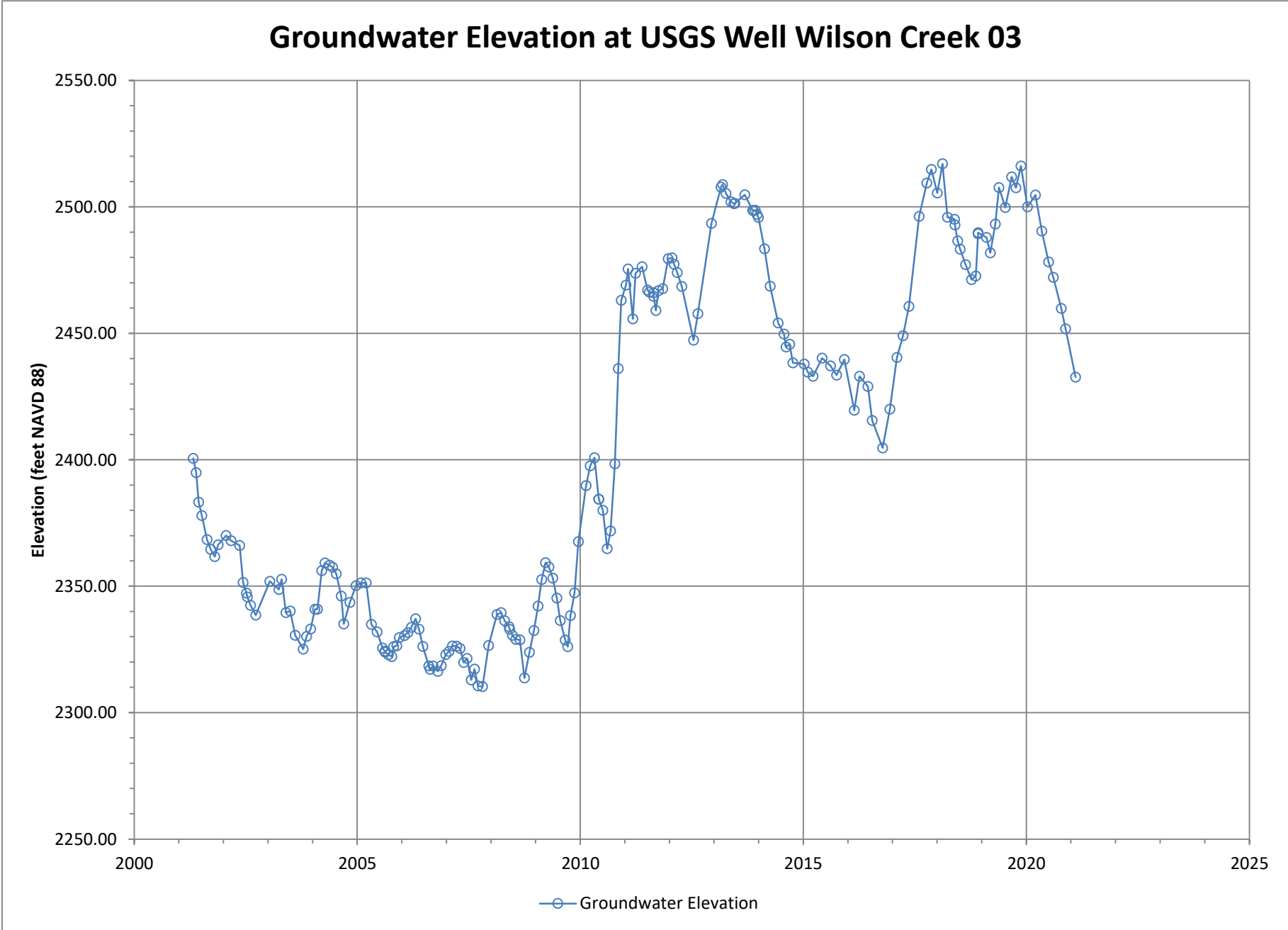


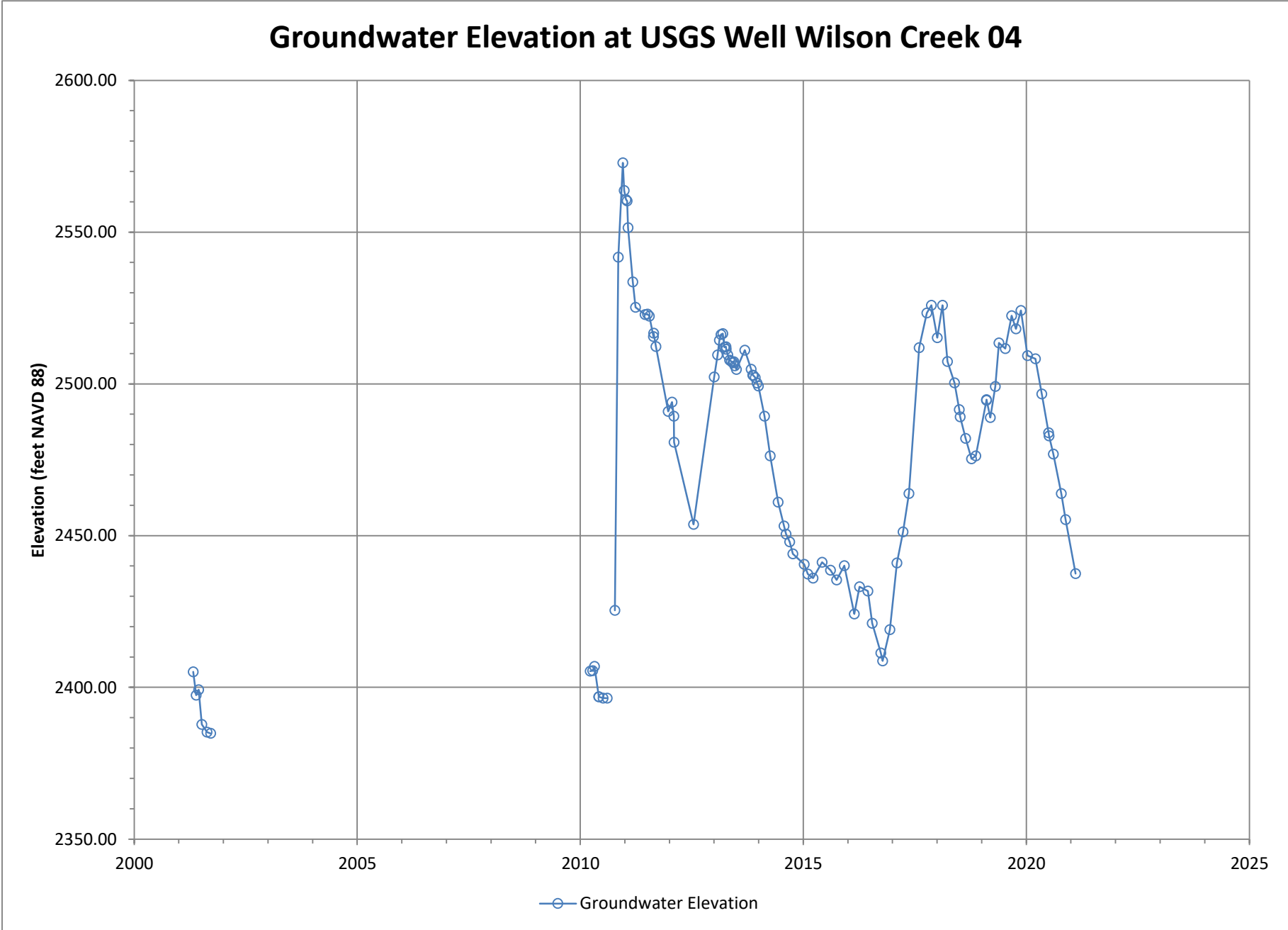
Groundwater Elevation at USGS Well Wilson Creek 01

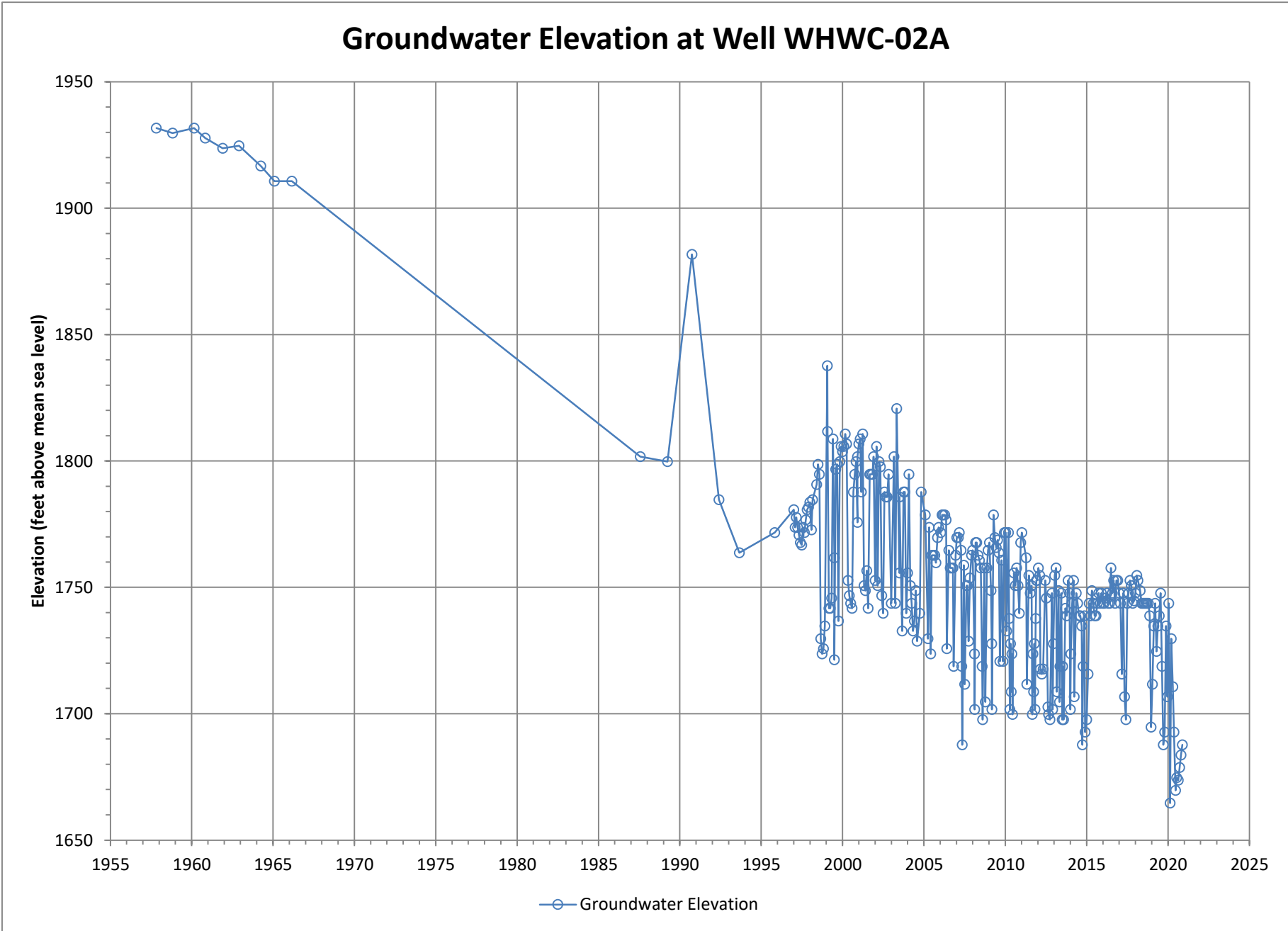


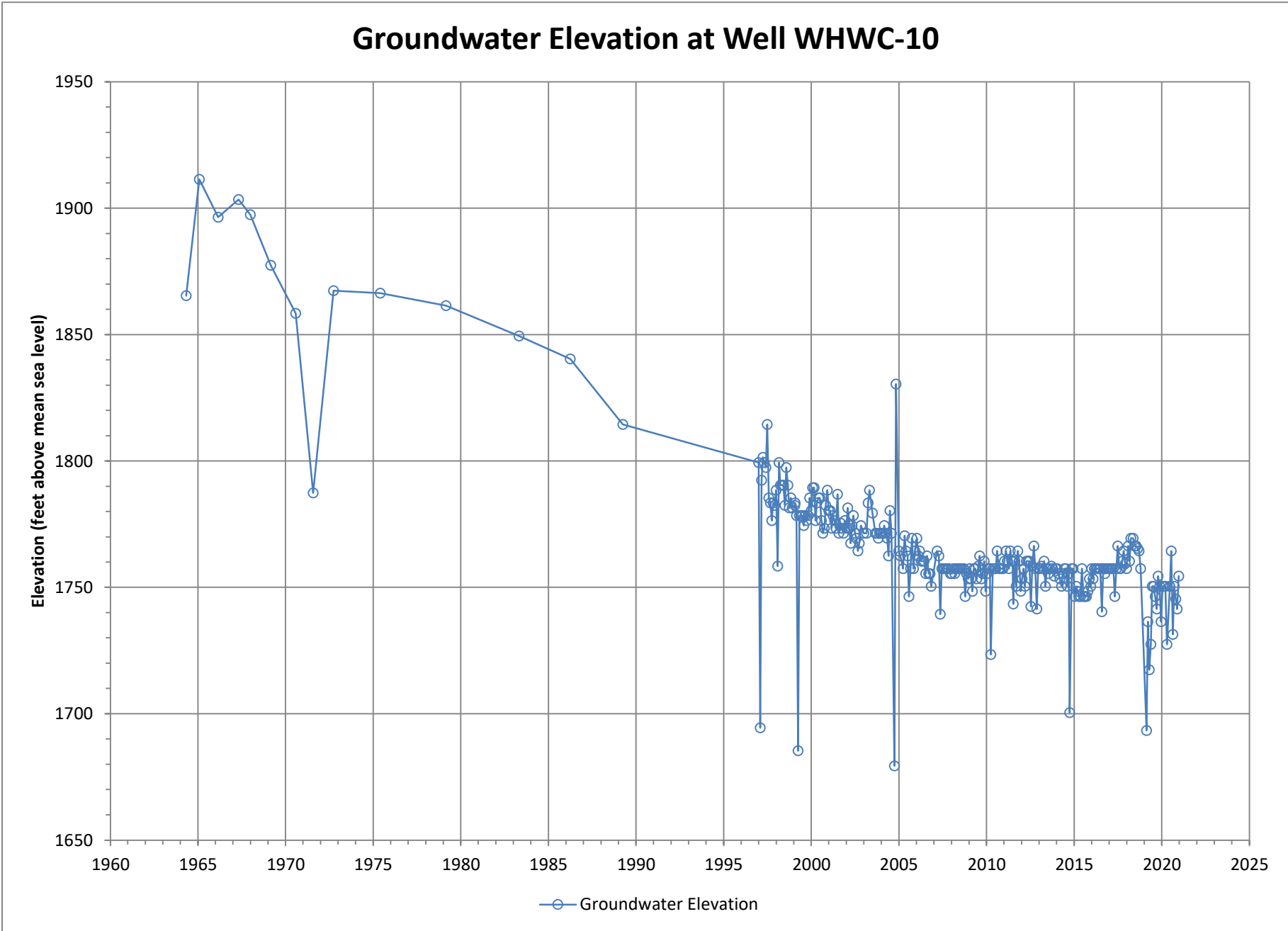
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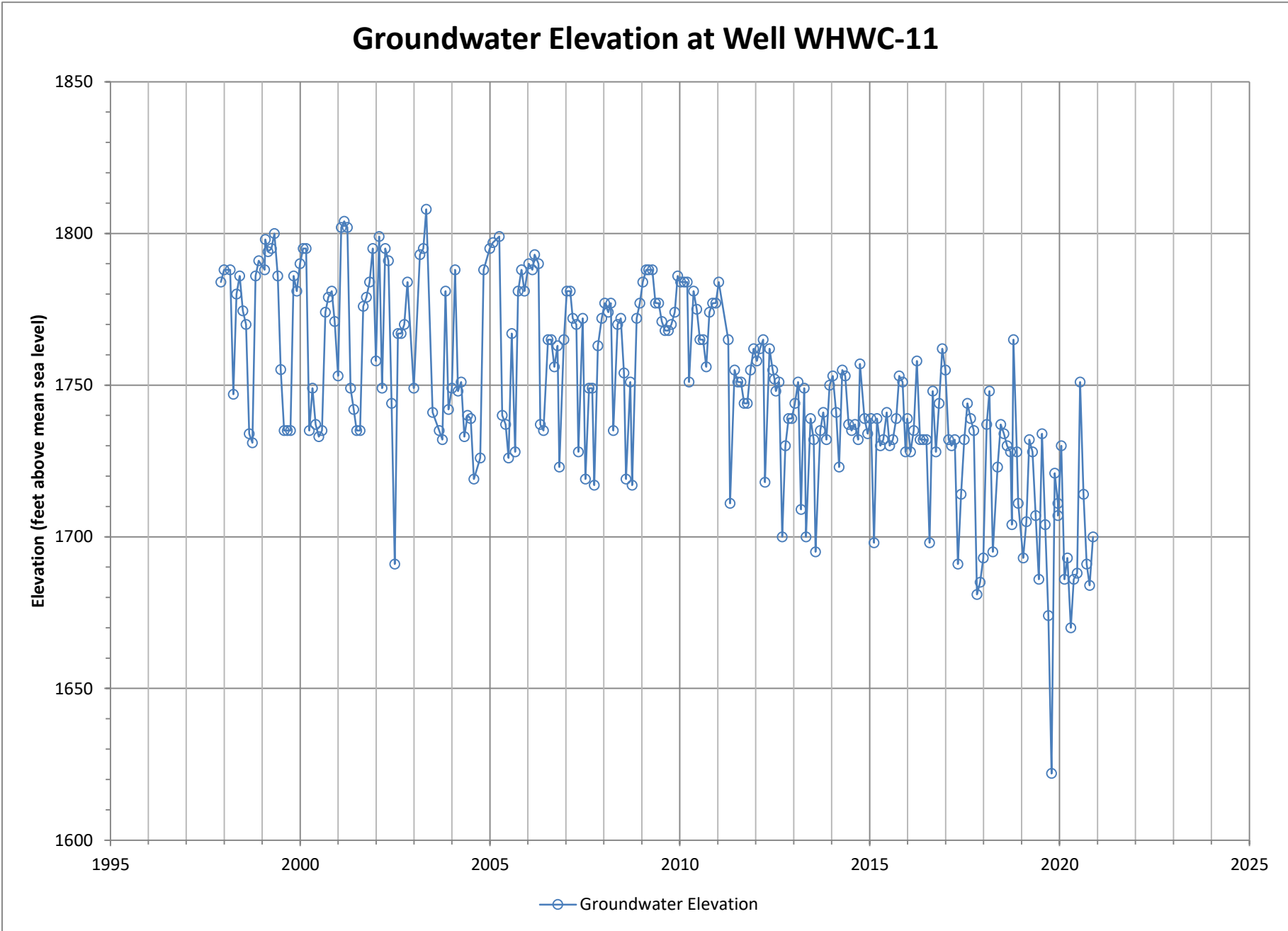


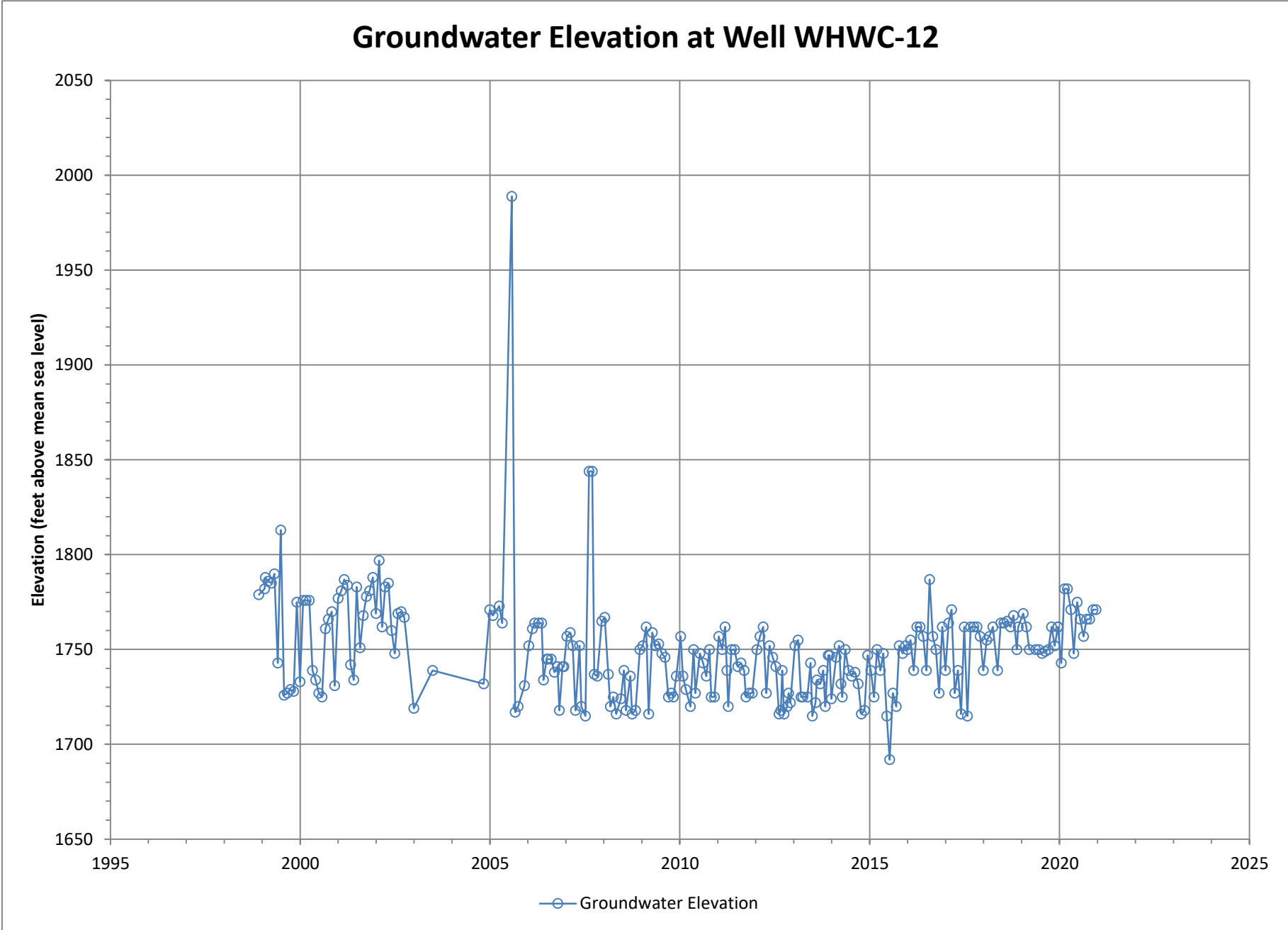


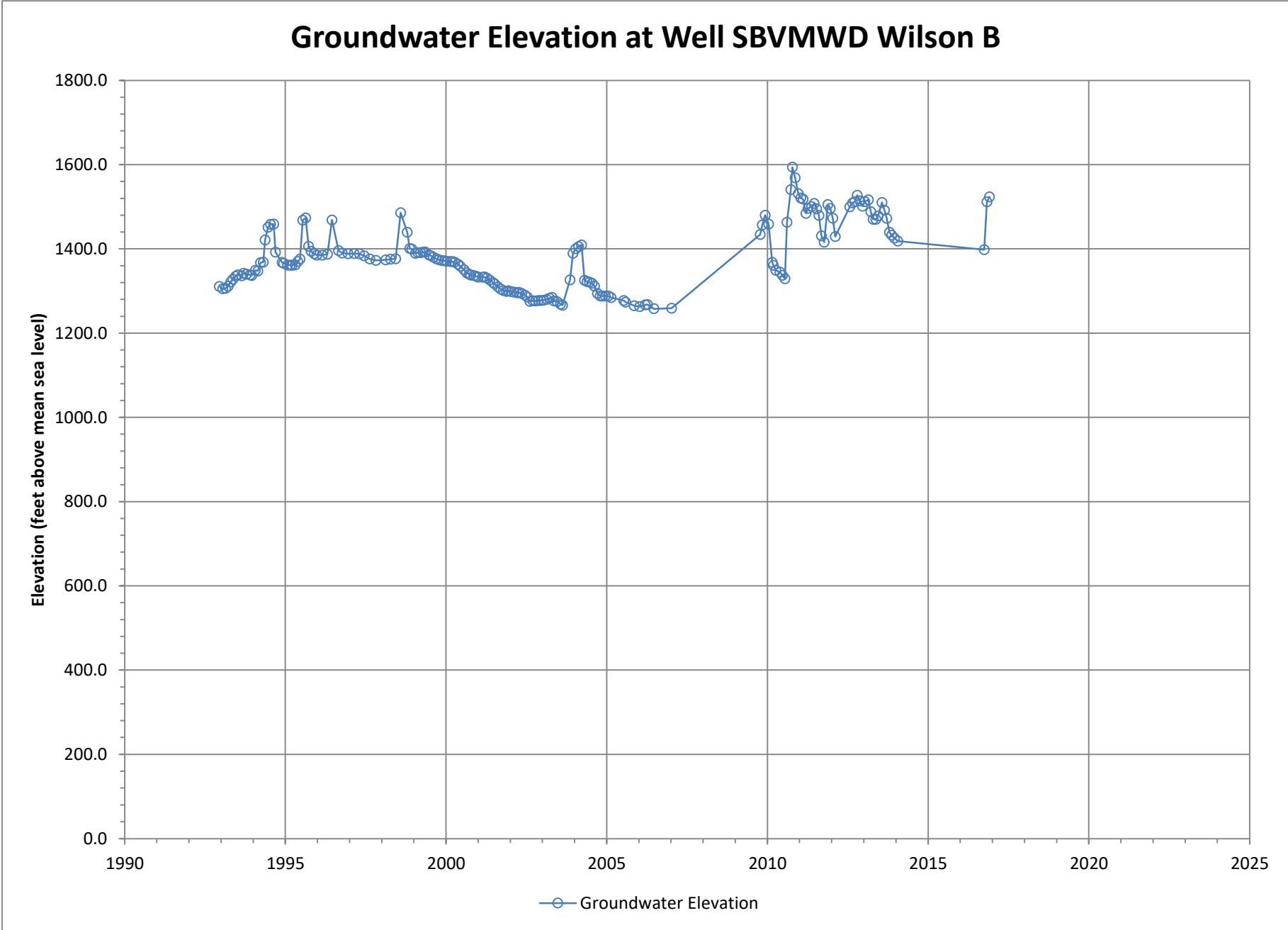




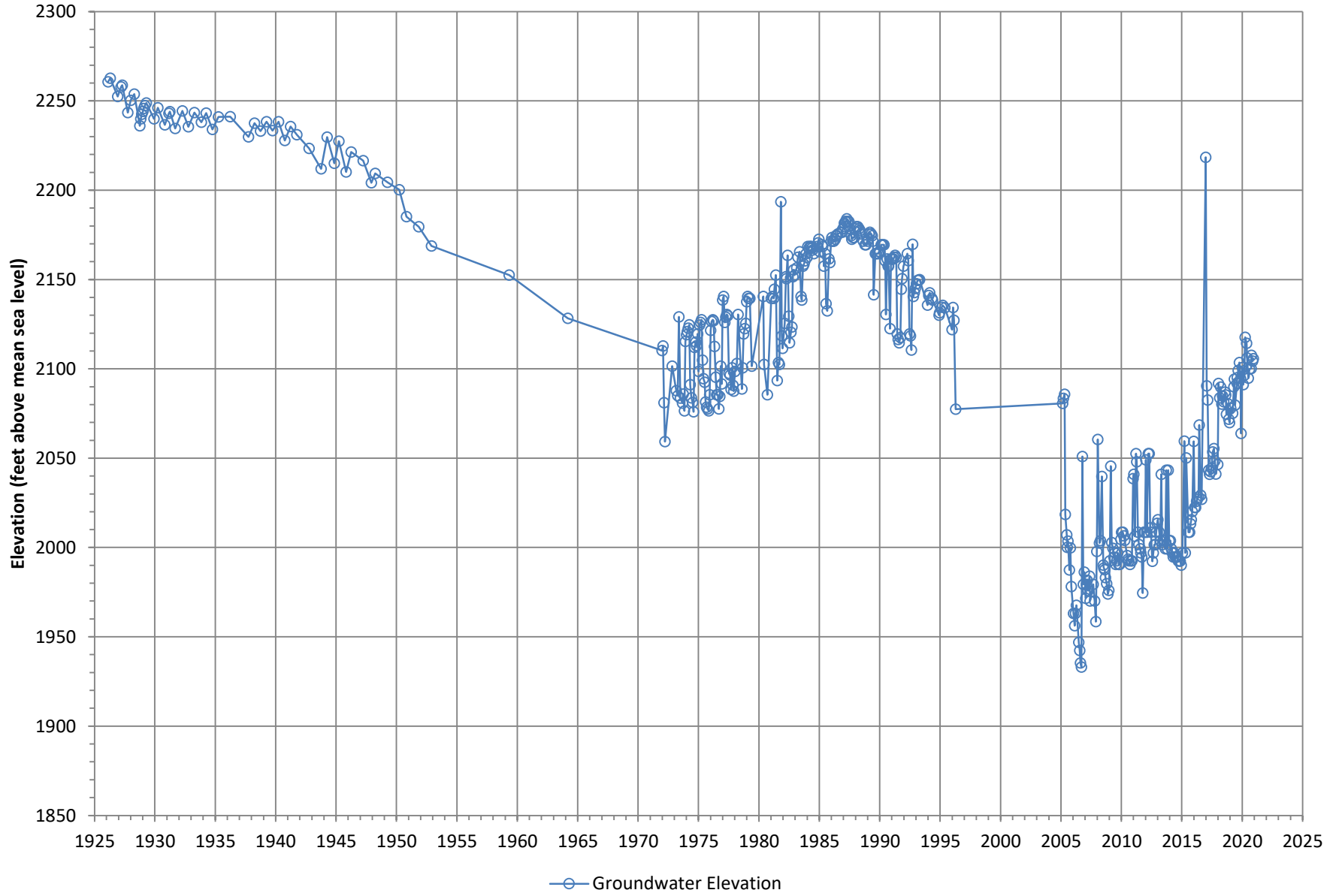


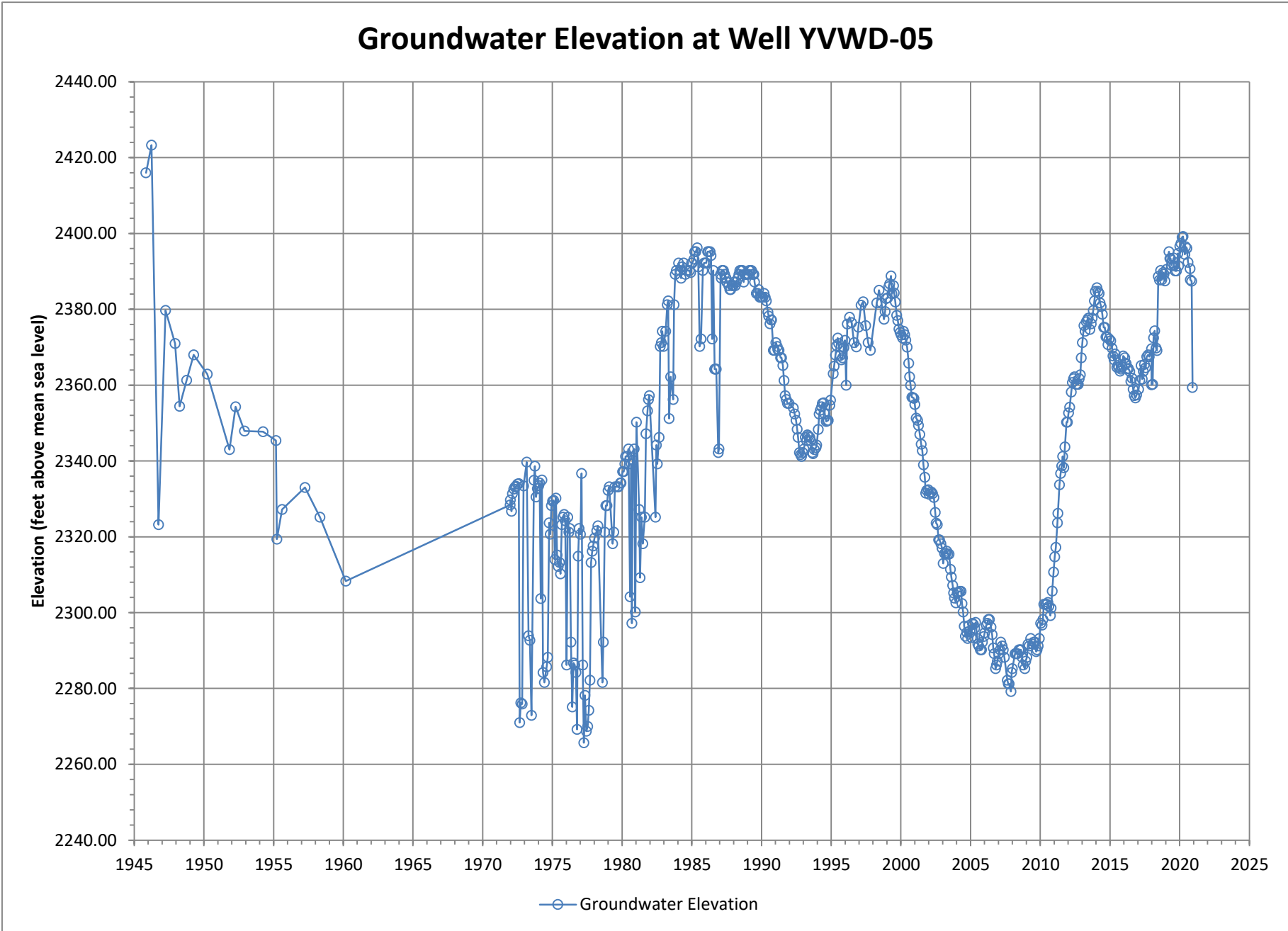


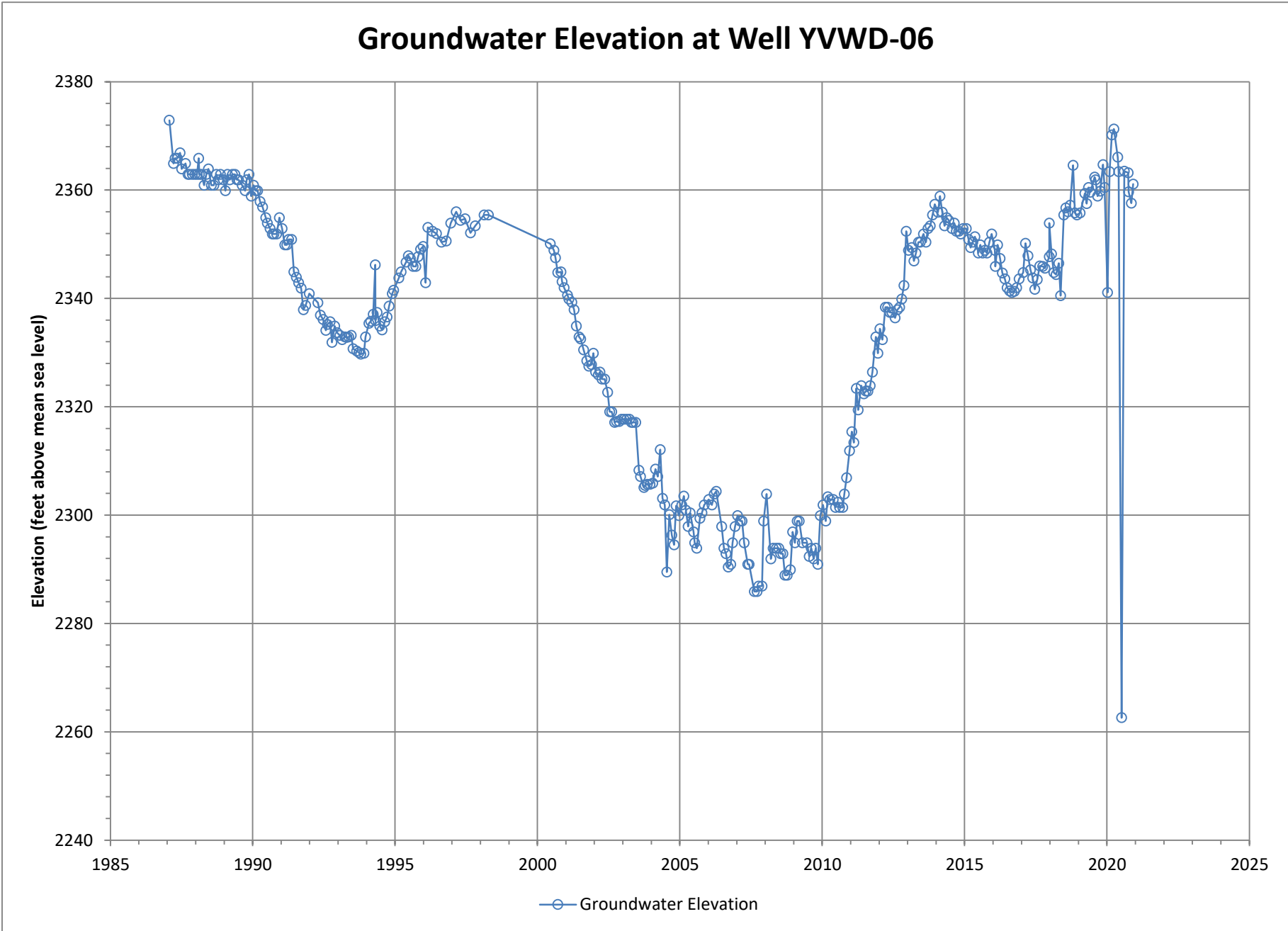


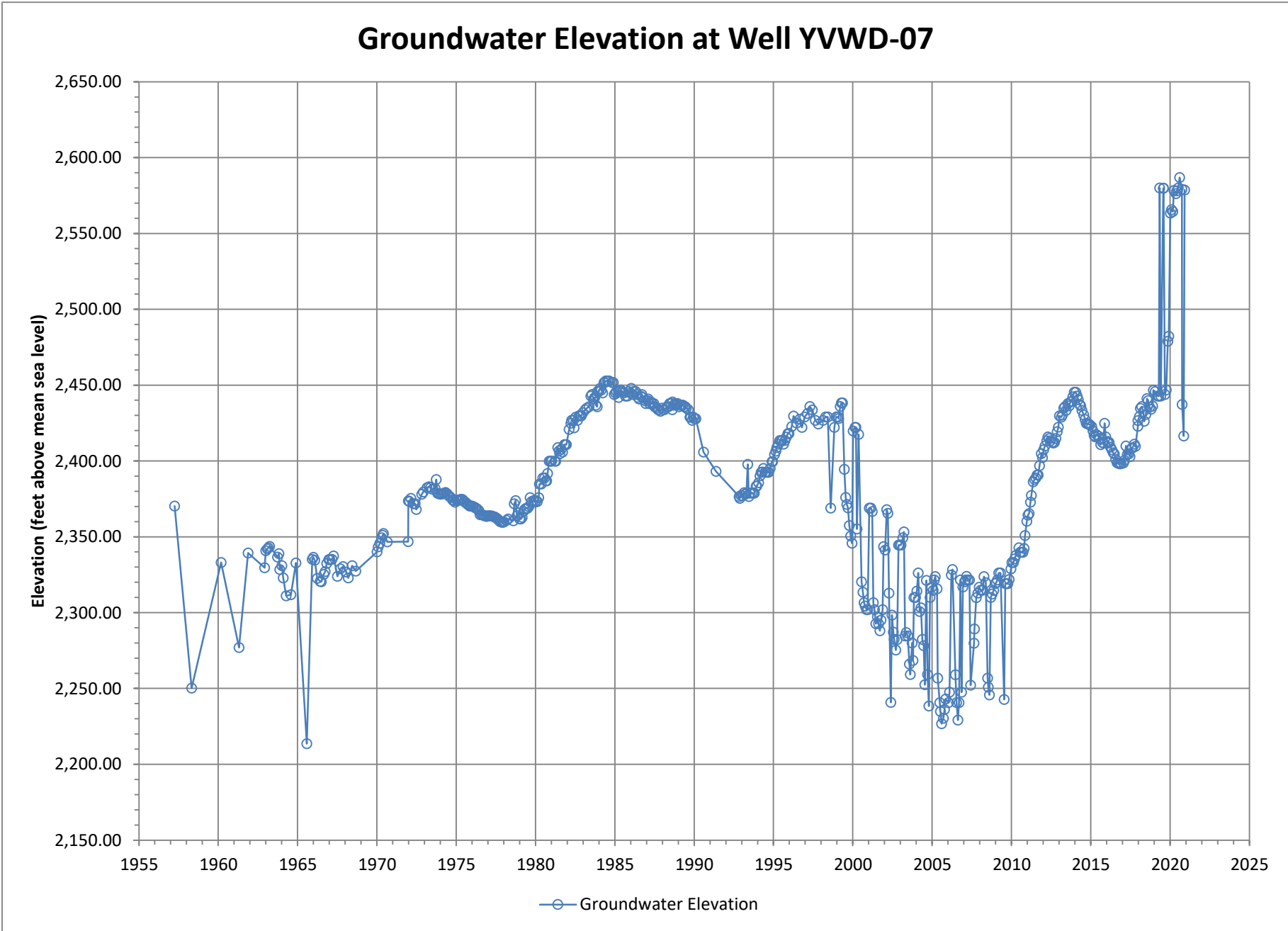


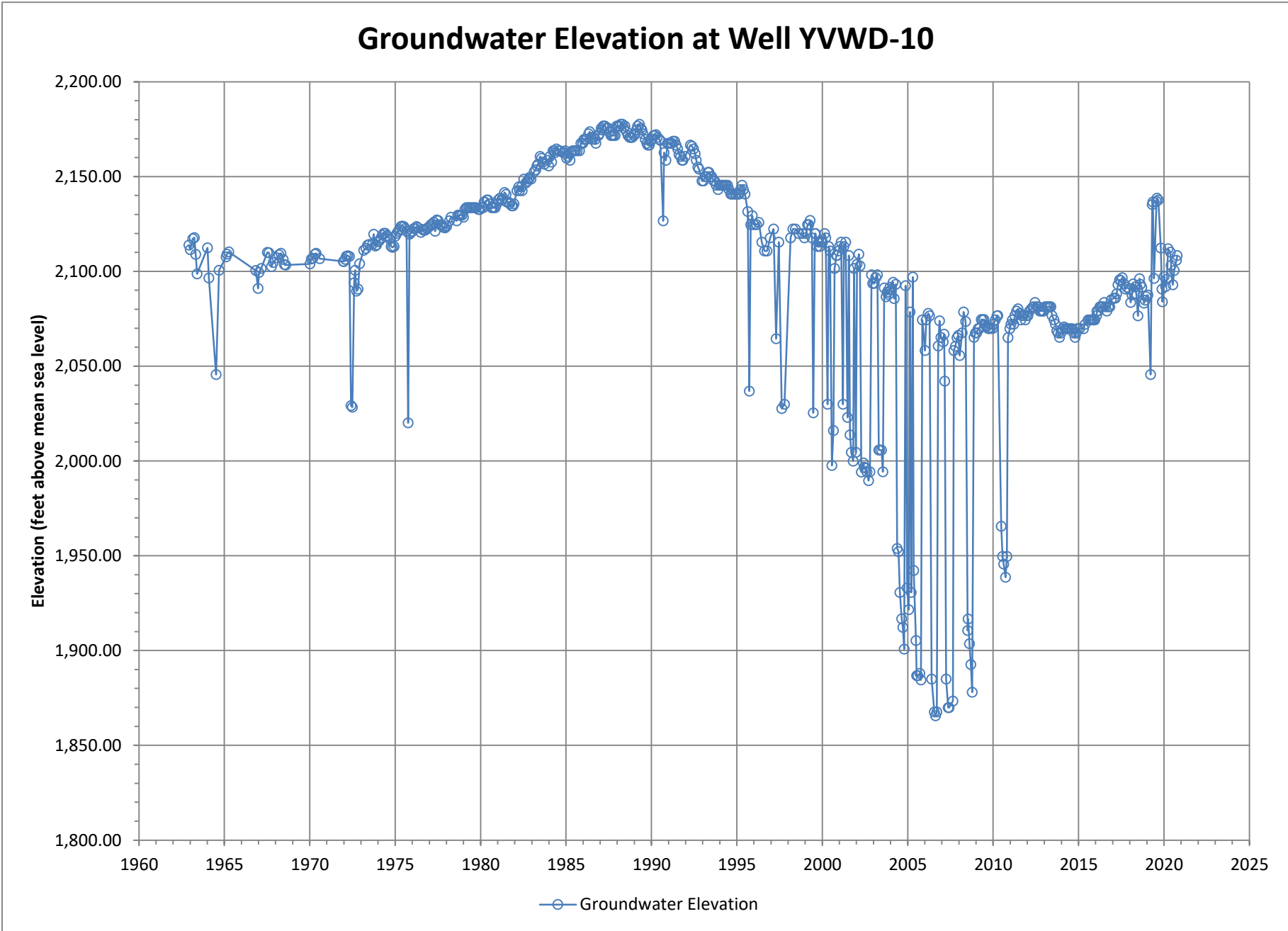
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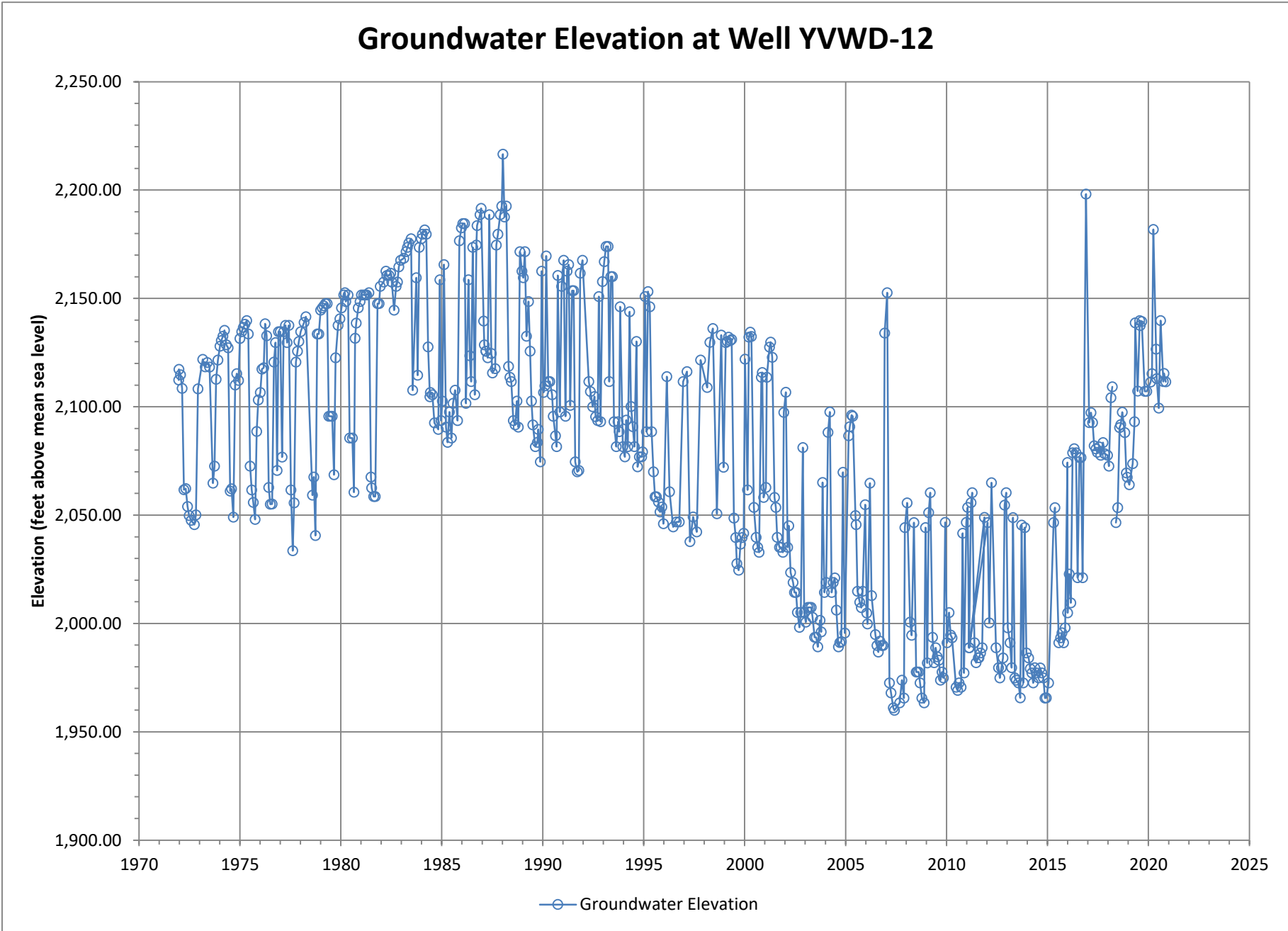


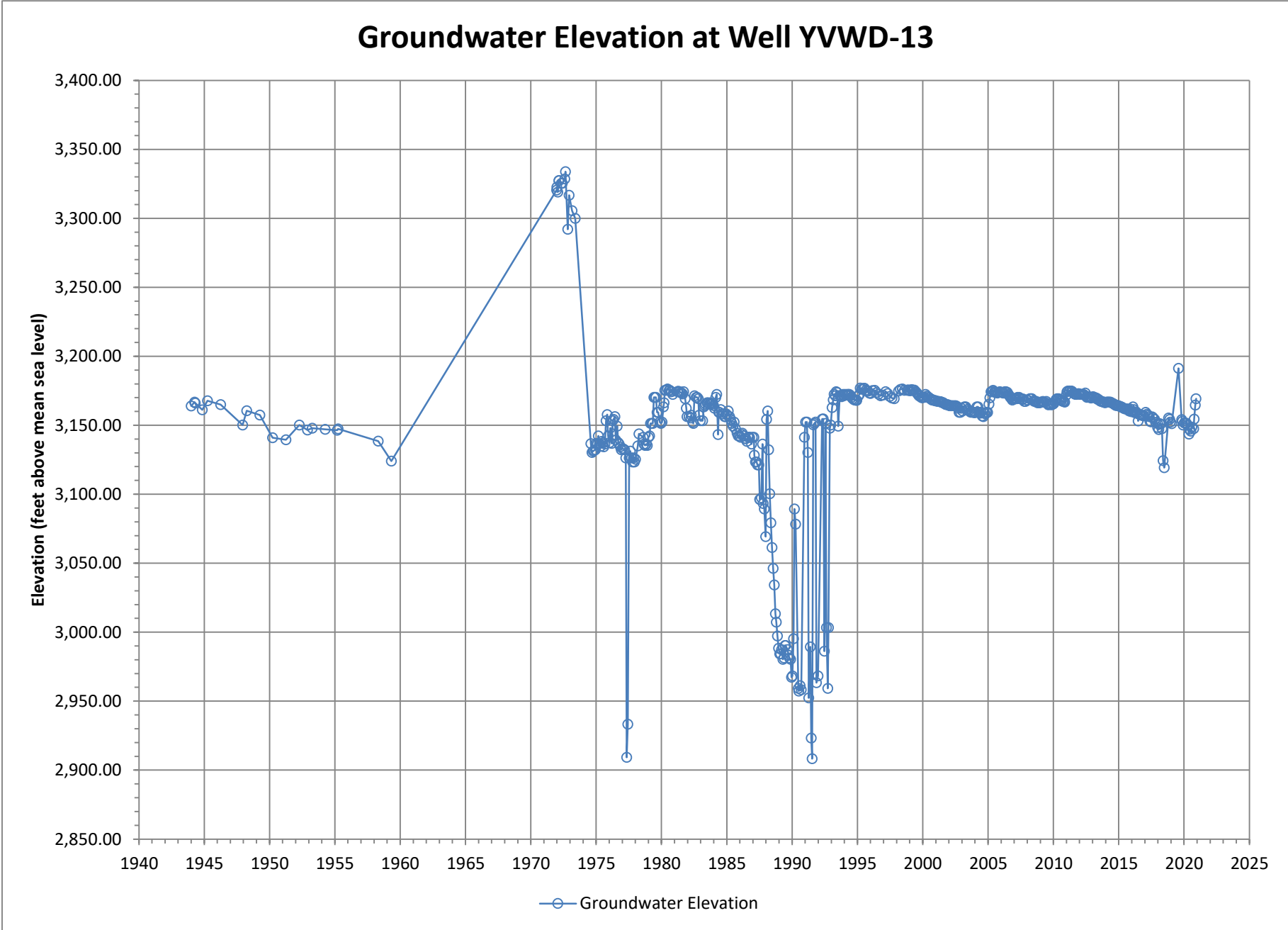


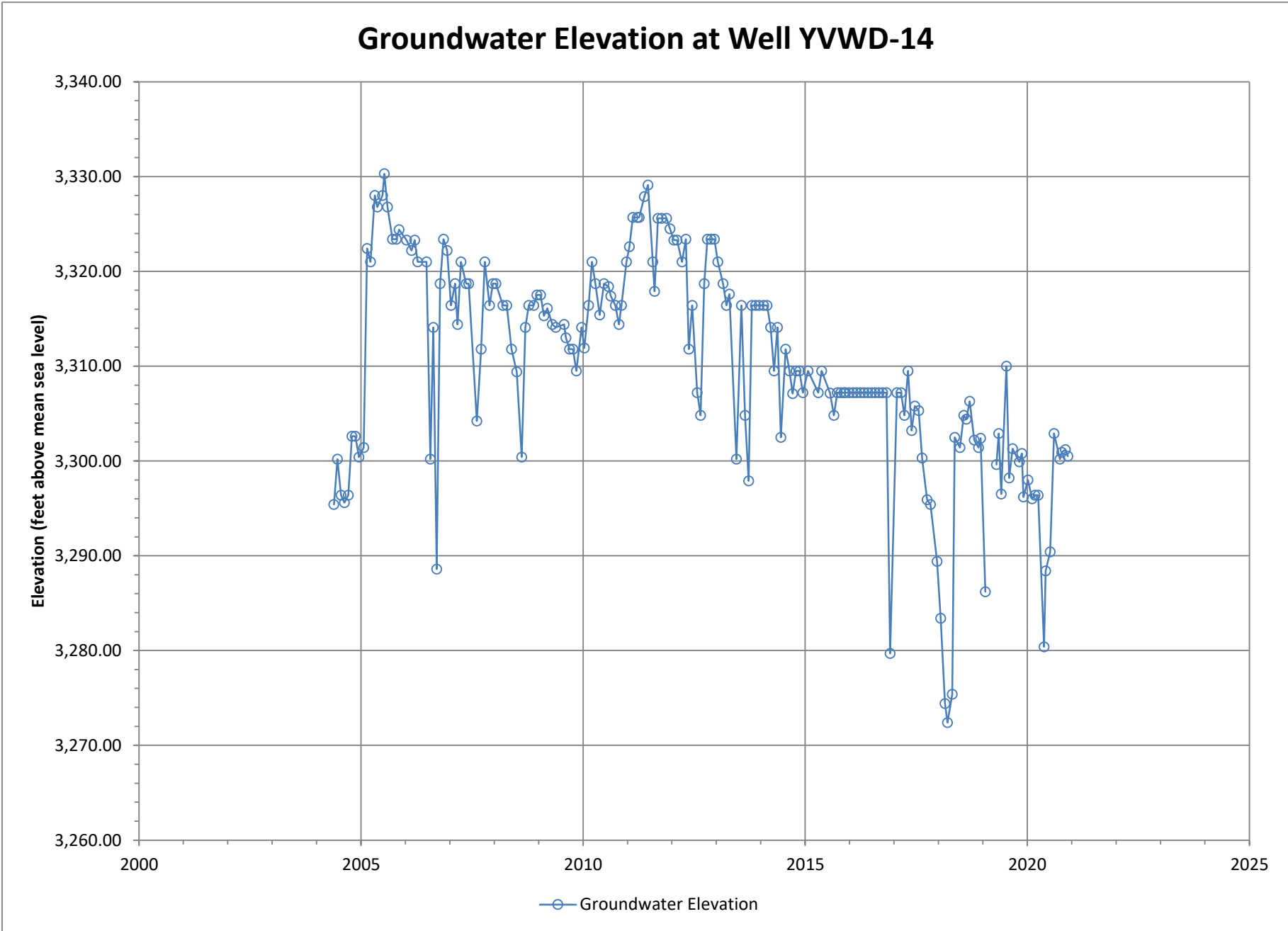


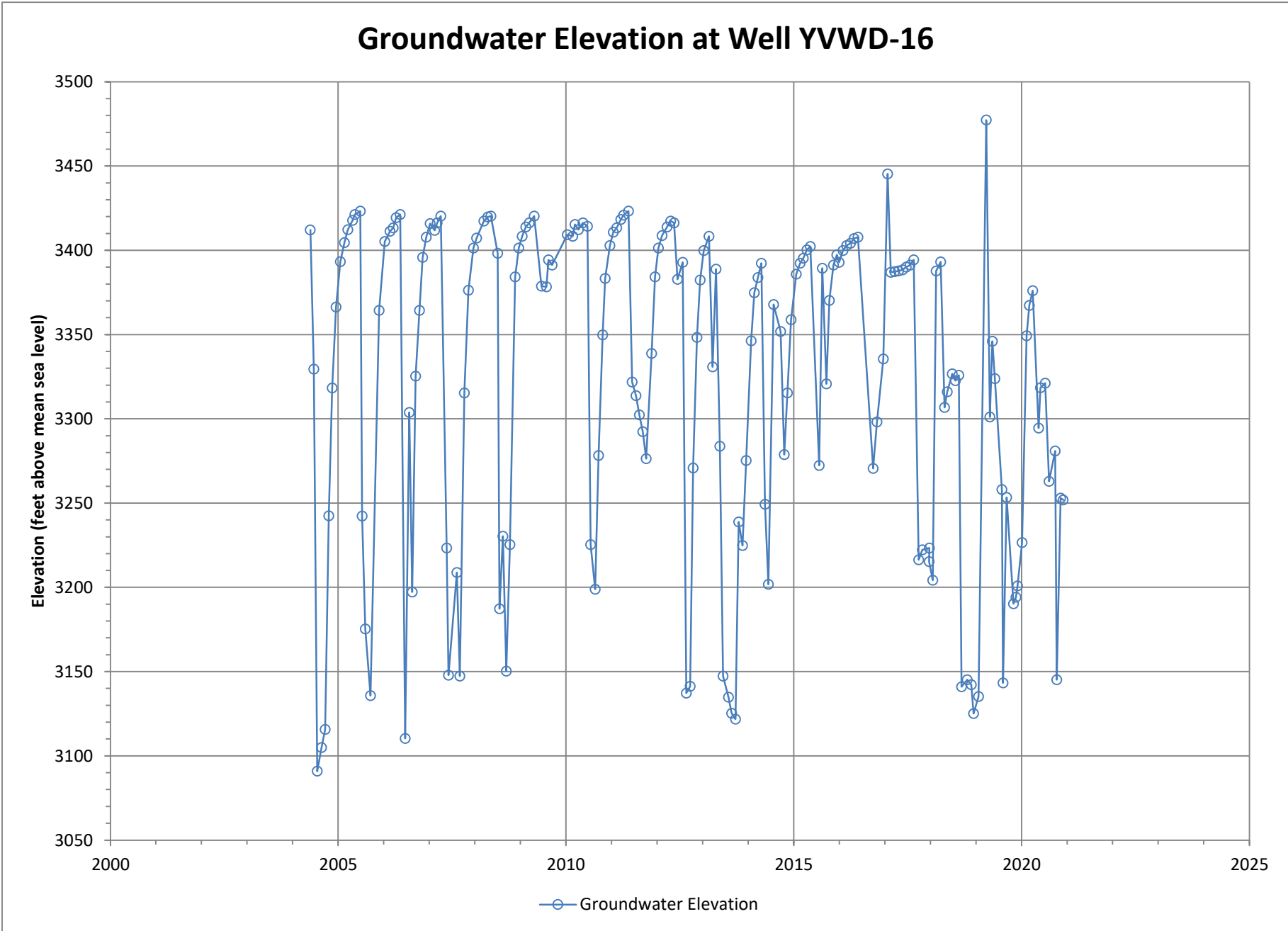


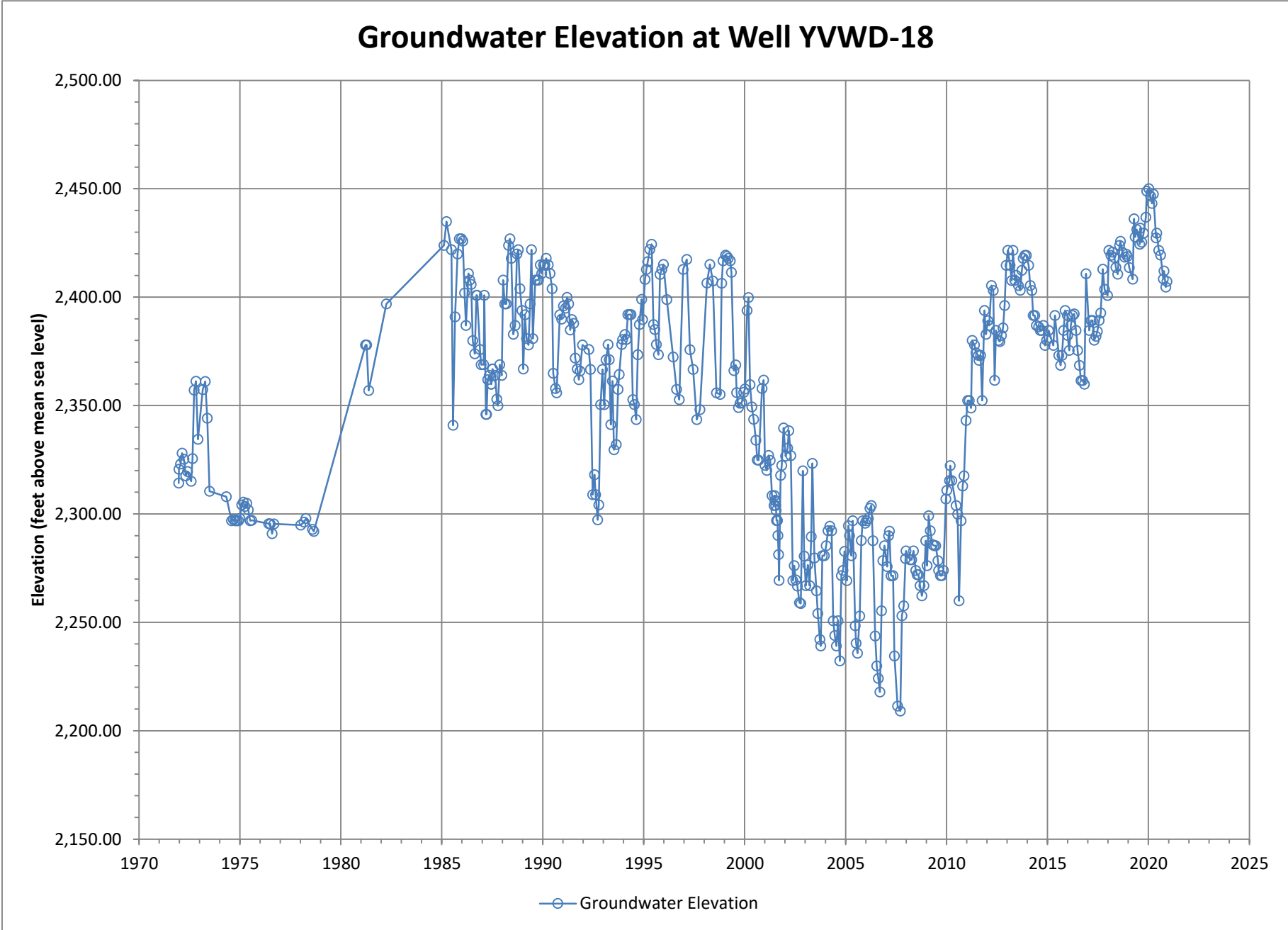


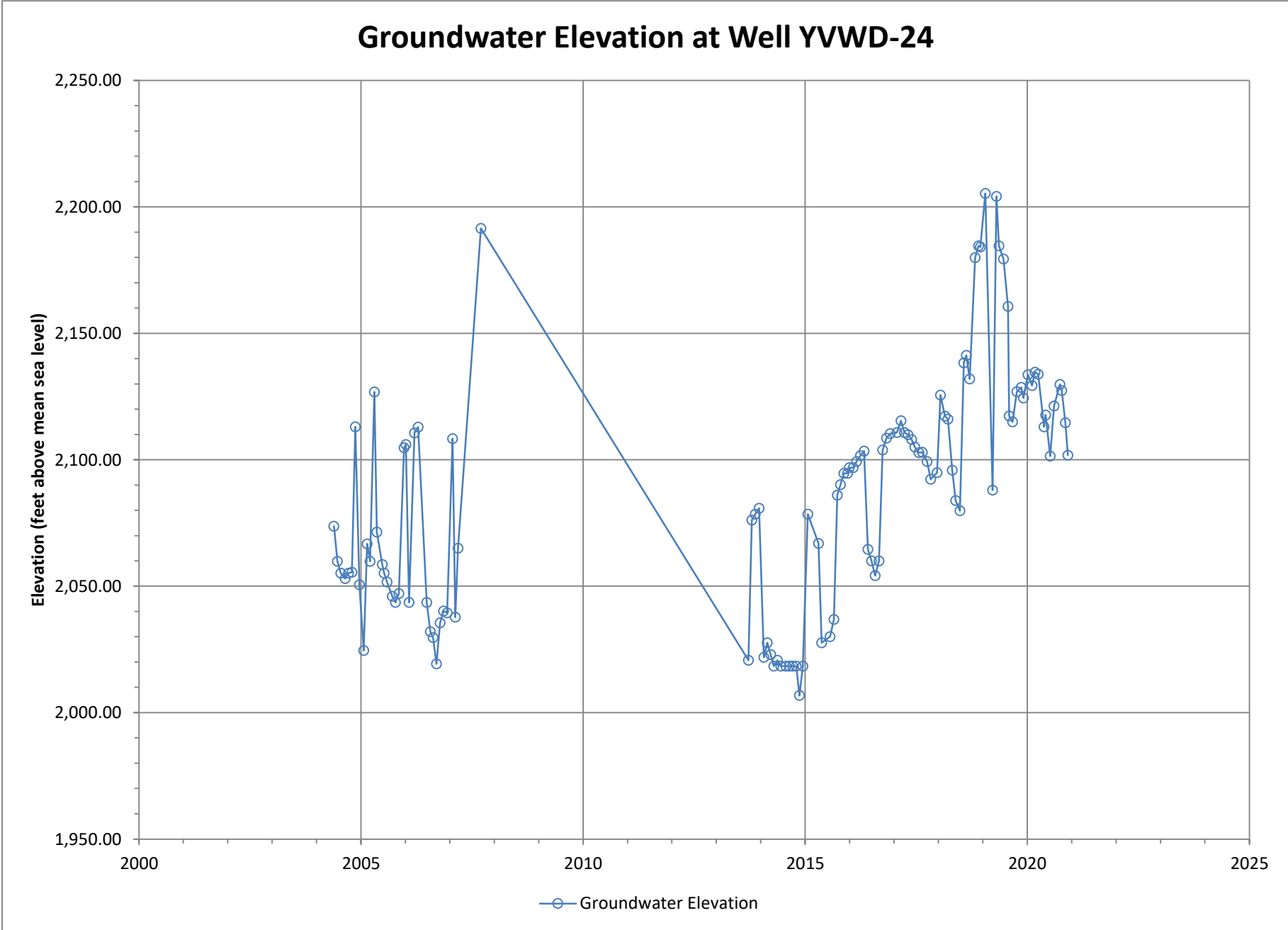


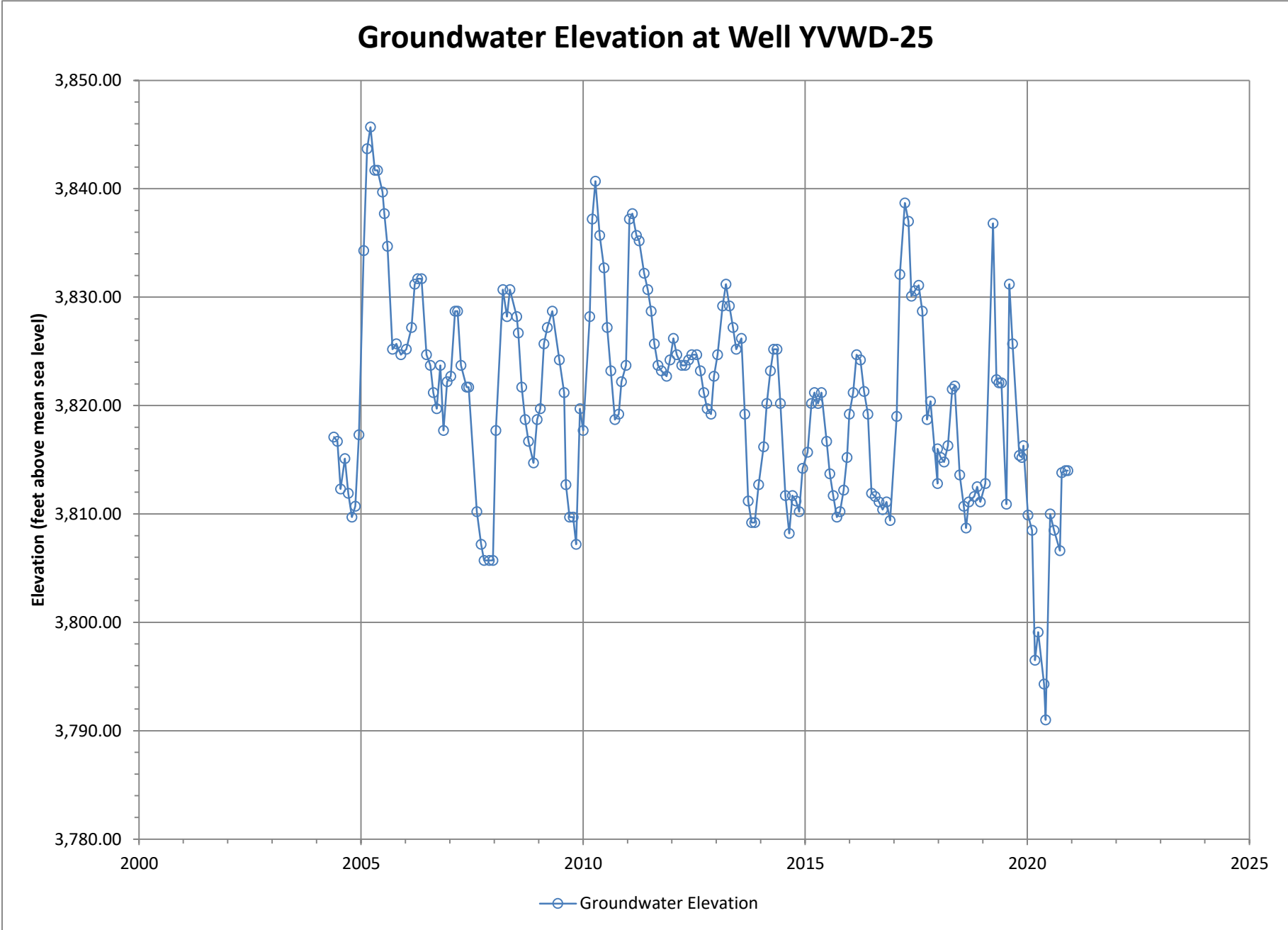


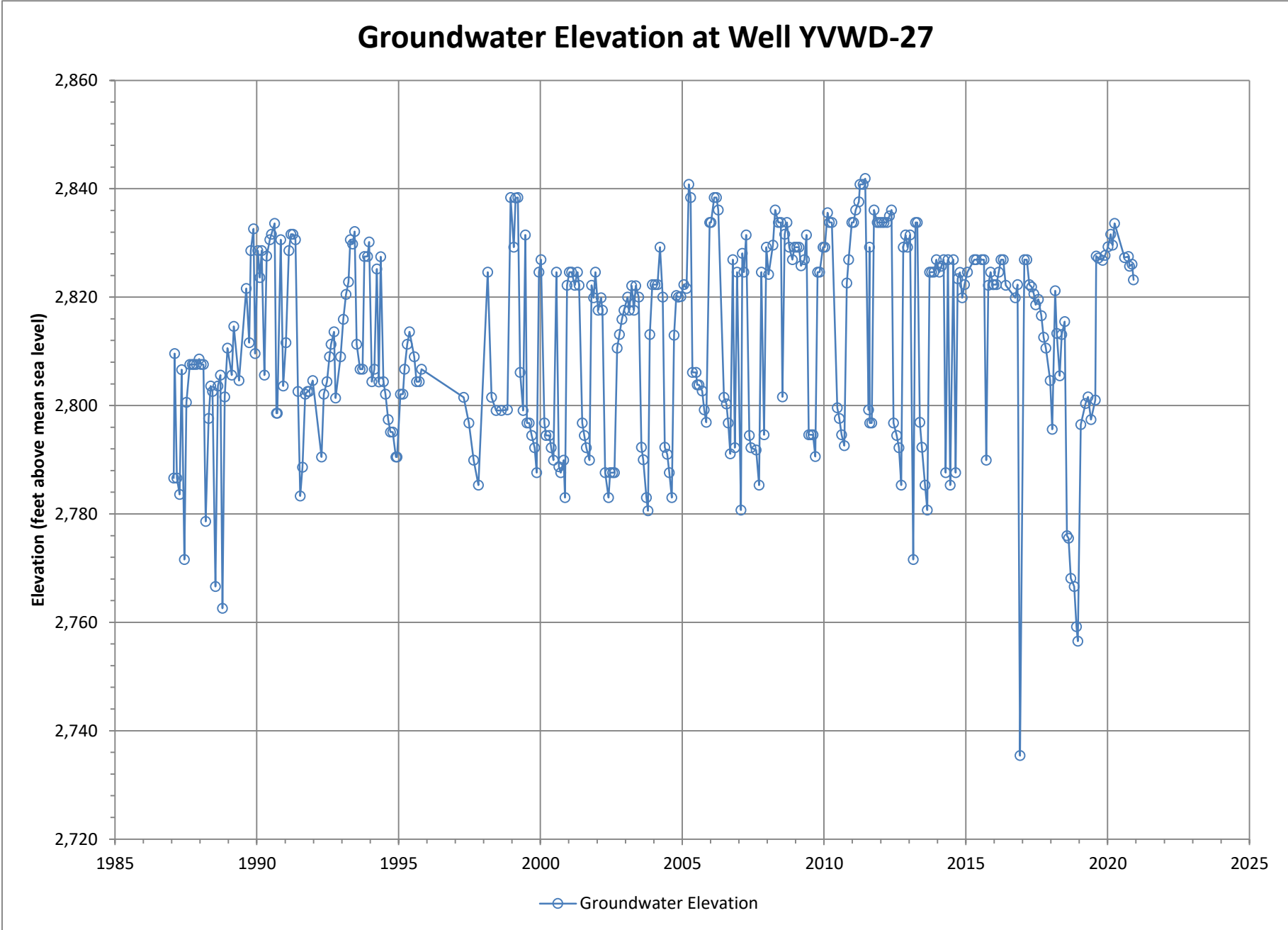


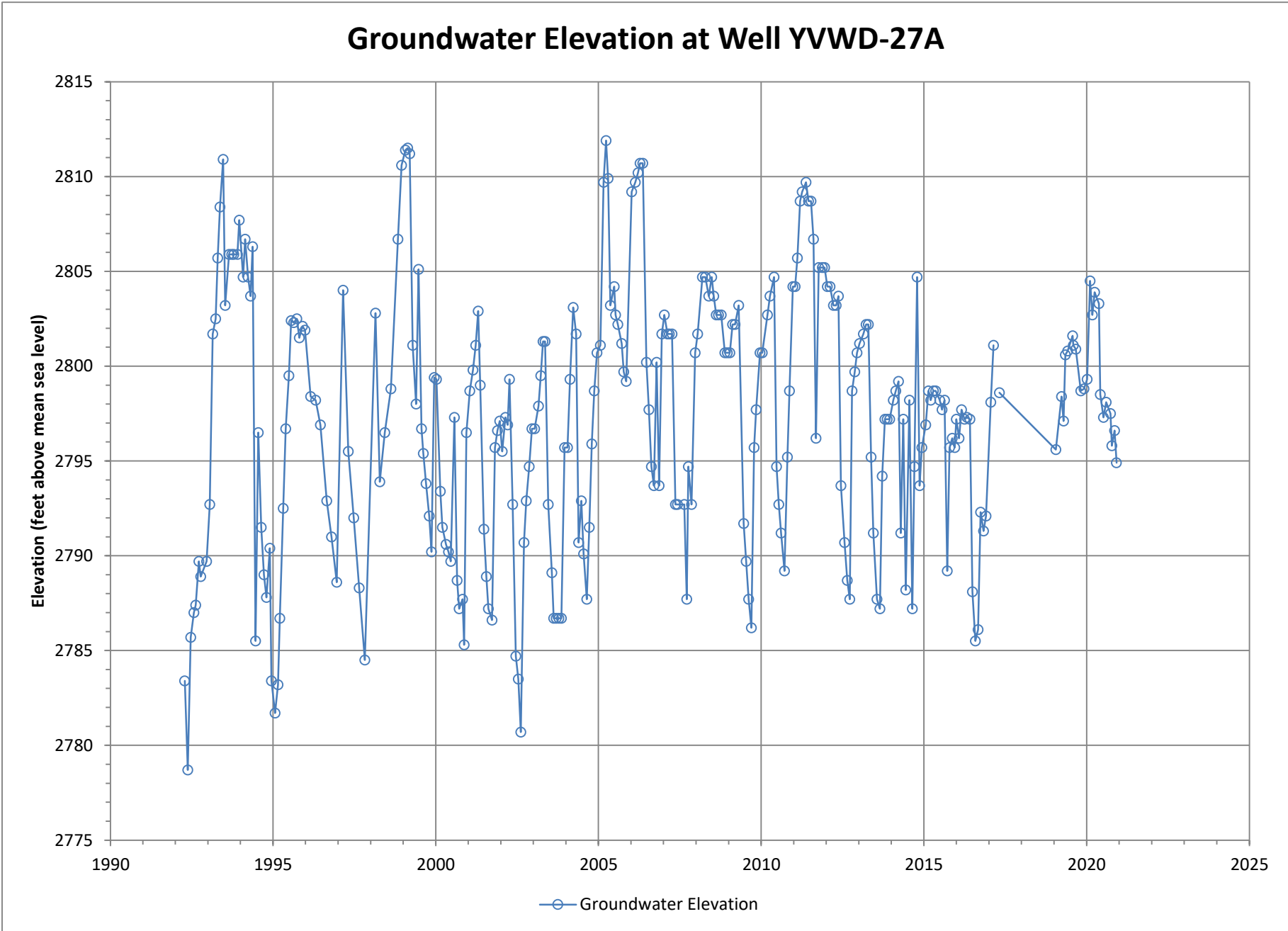


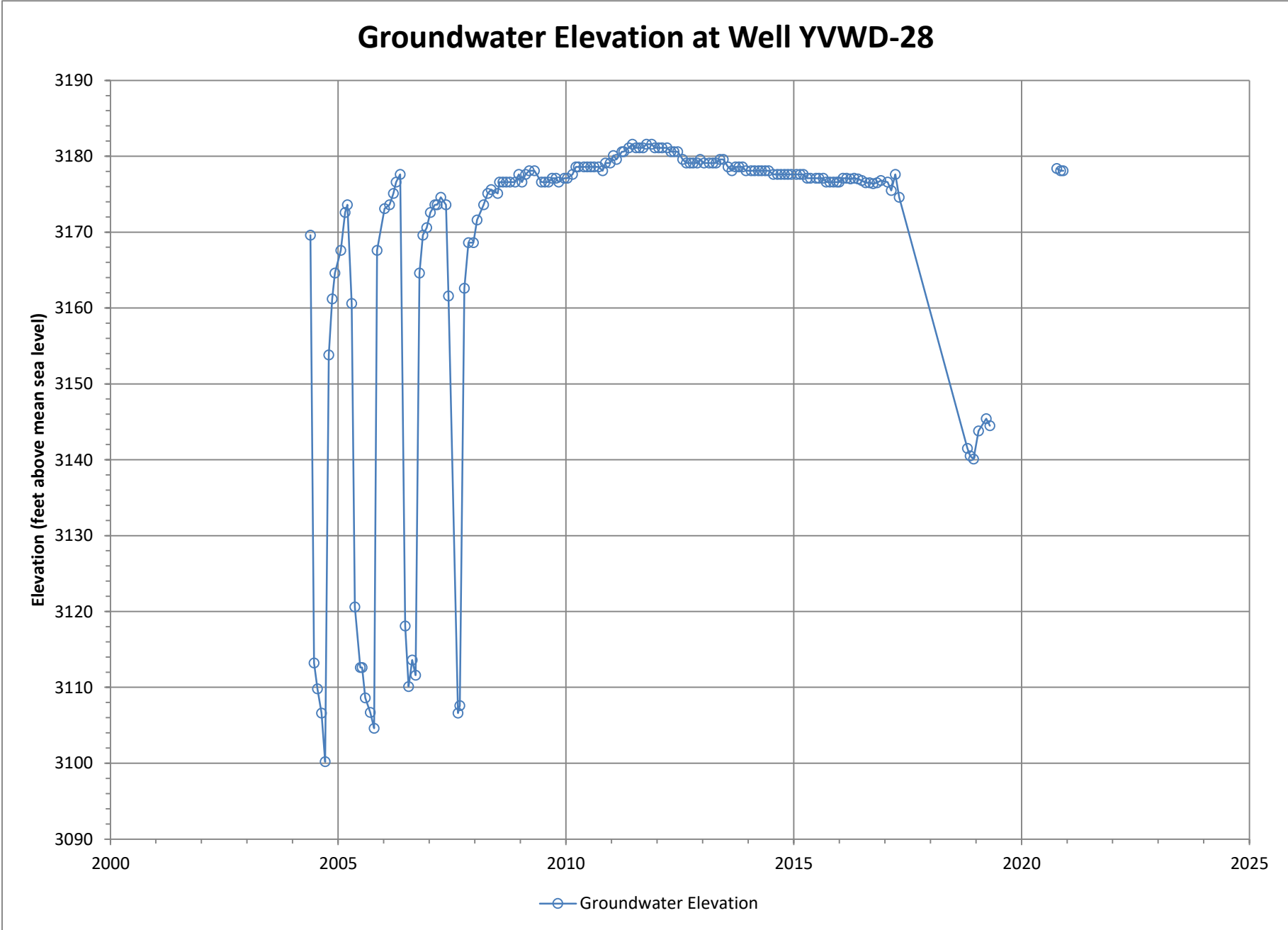


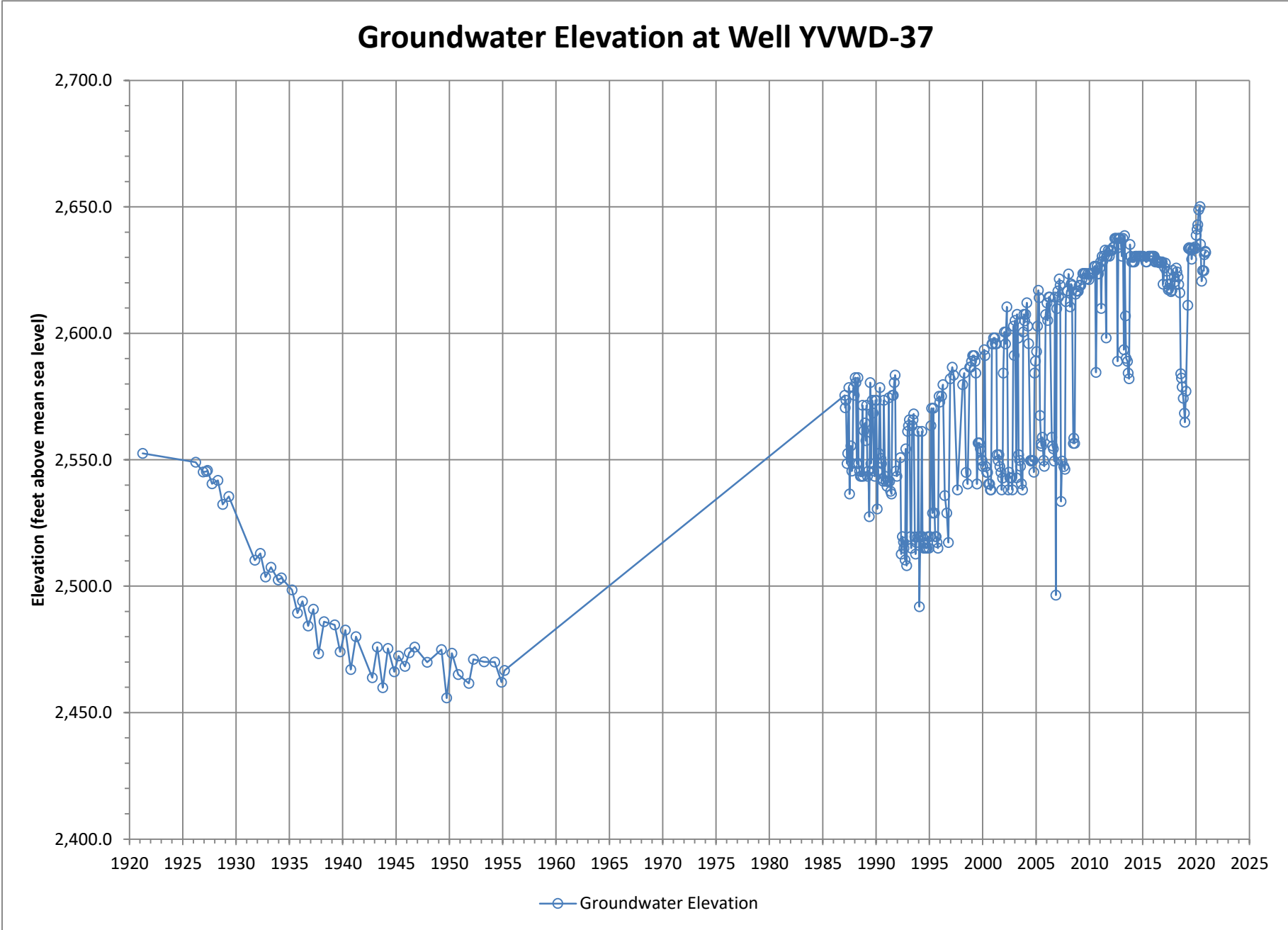


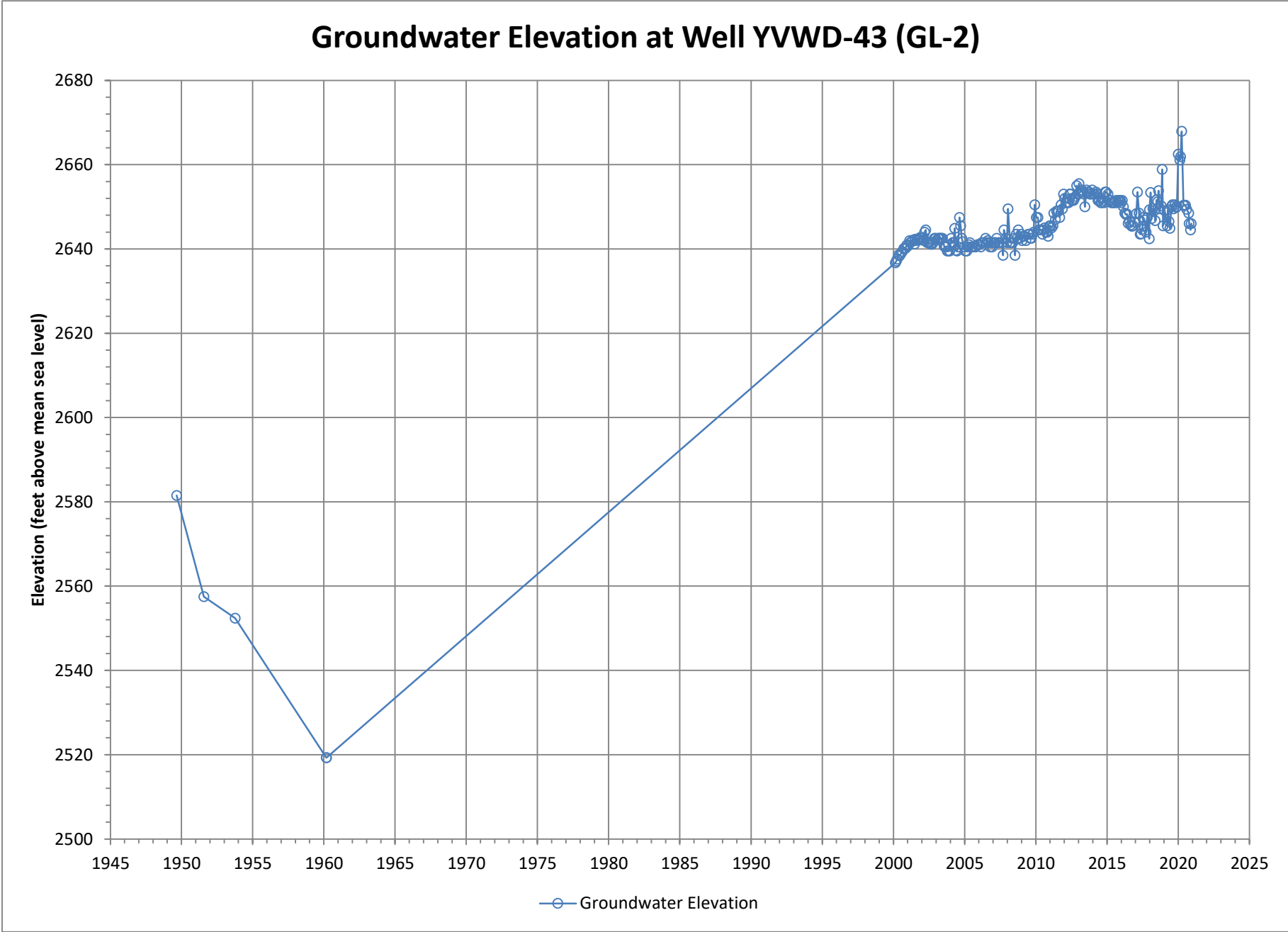


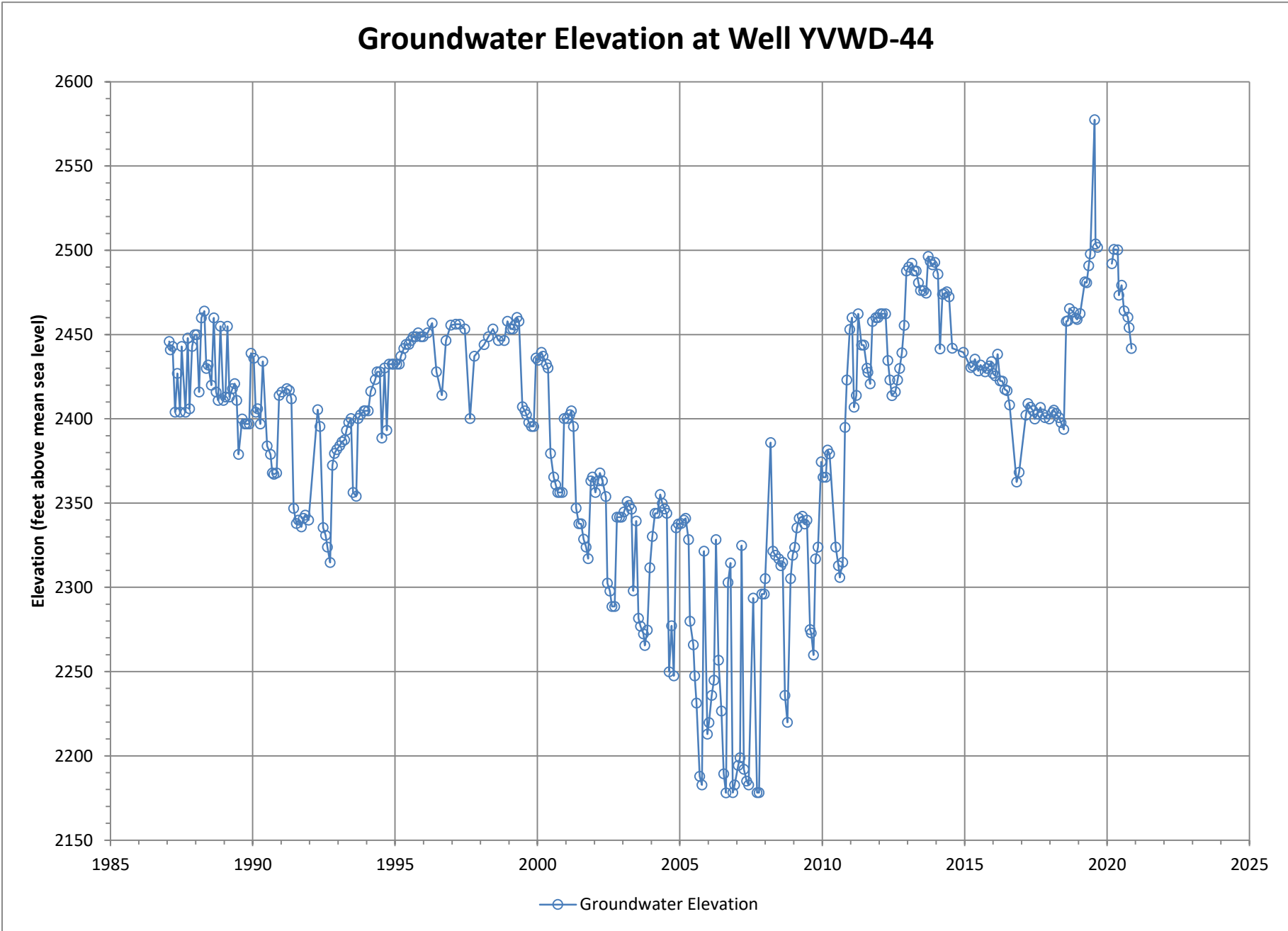


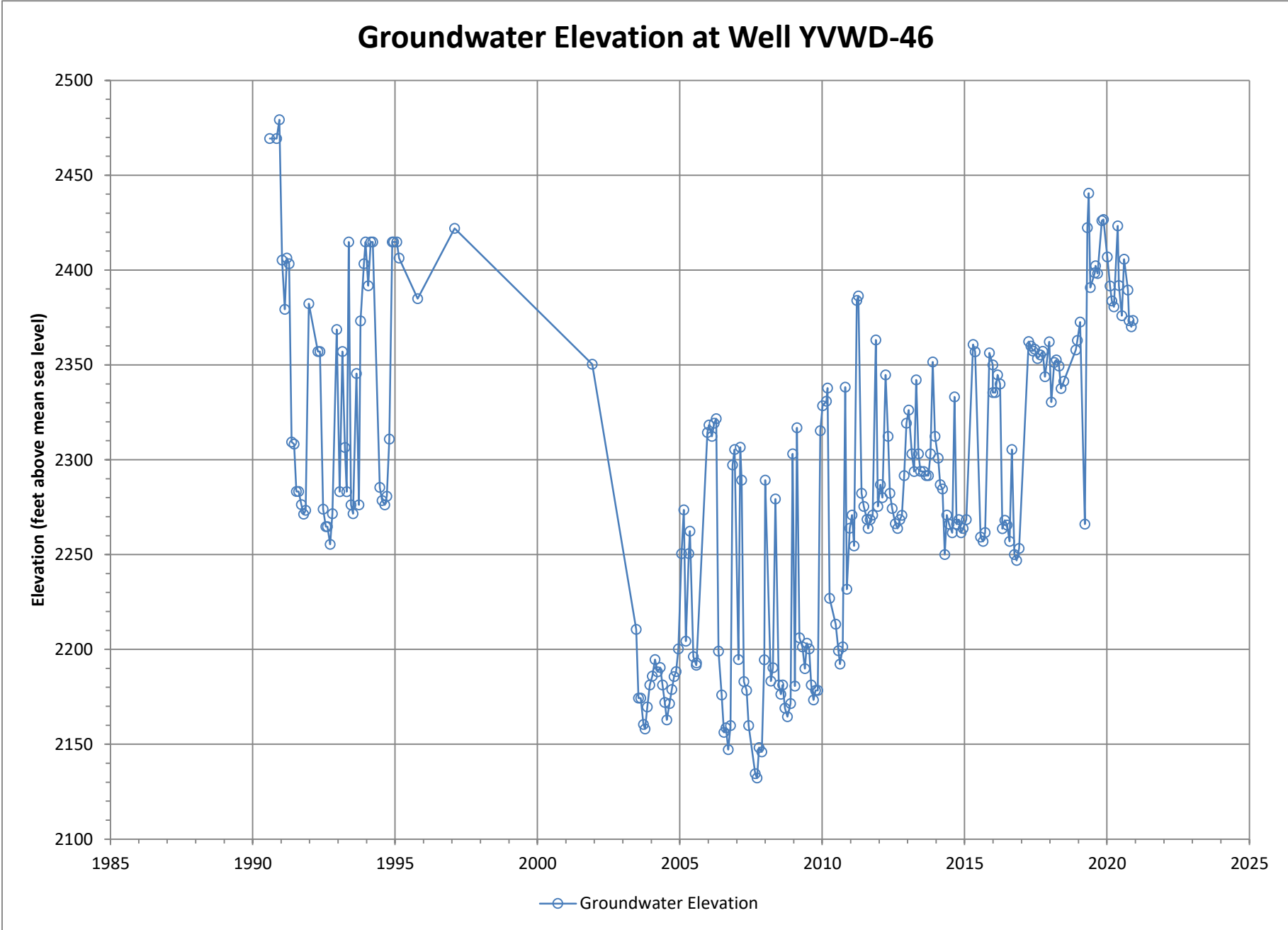


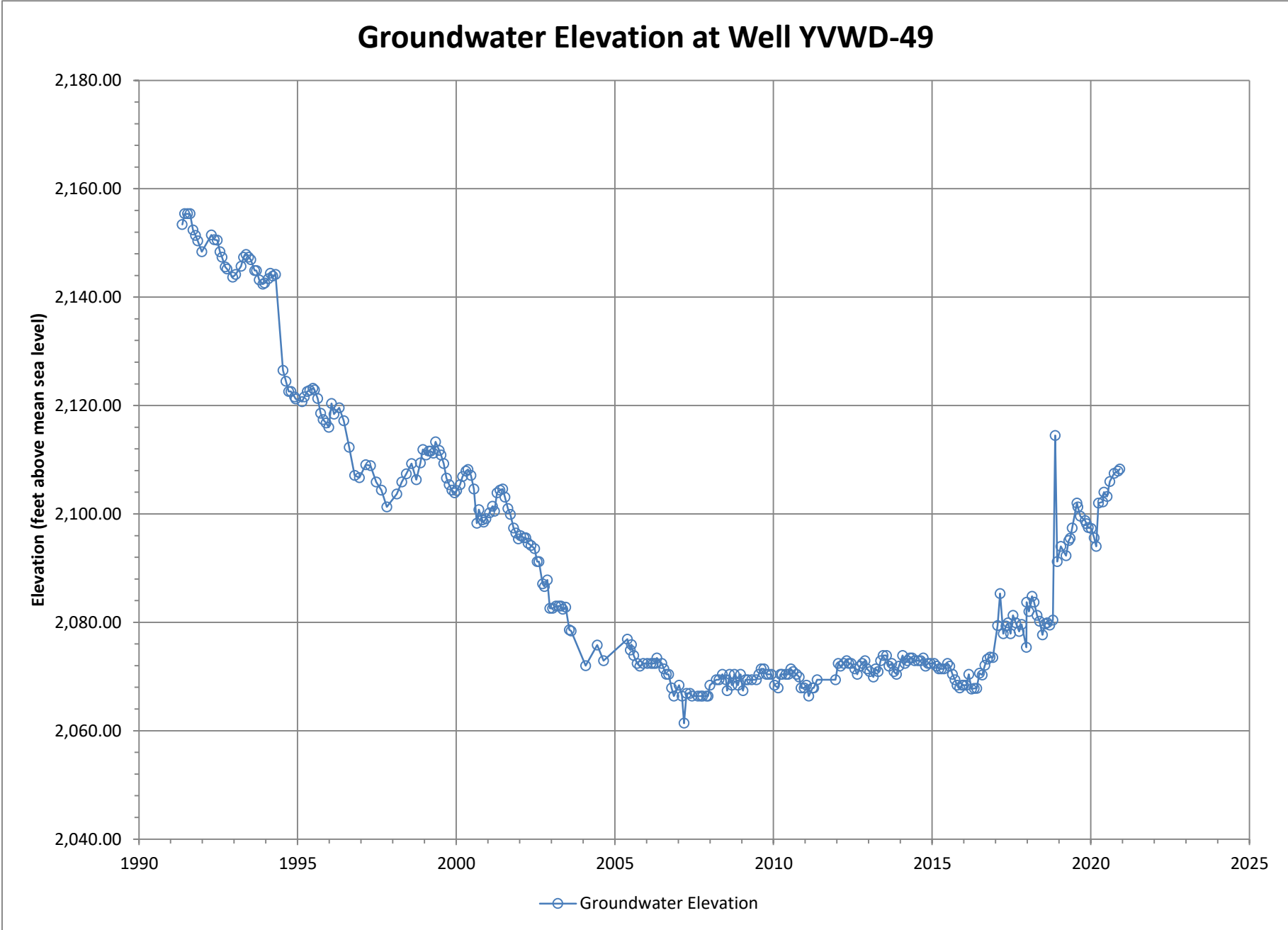


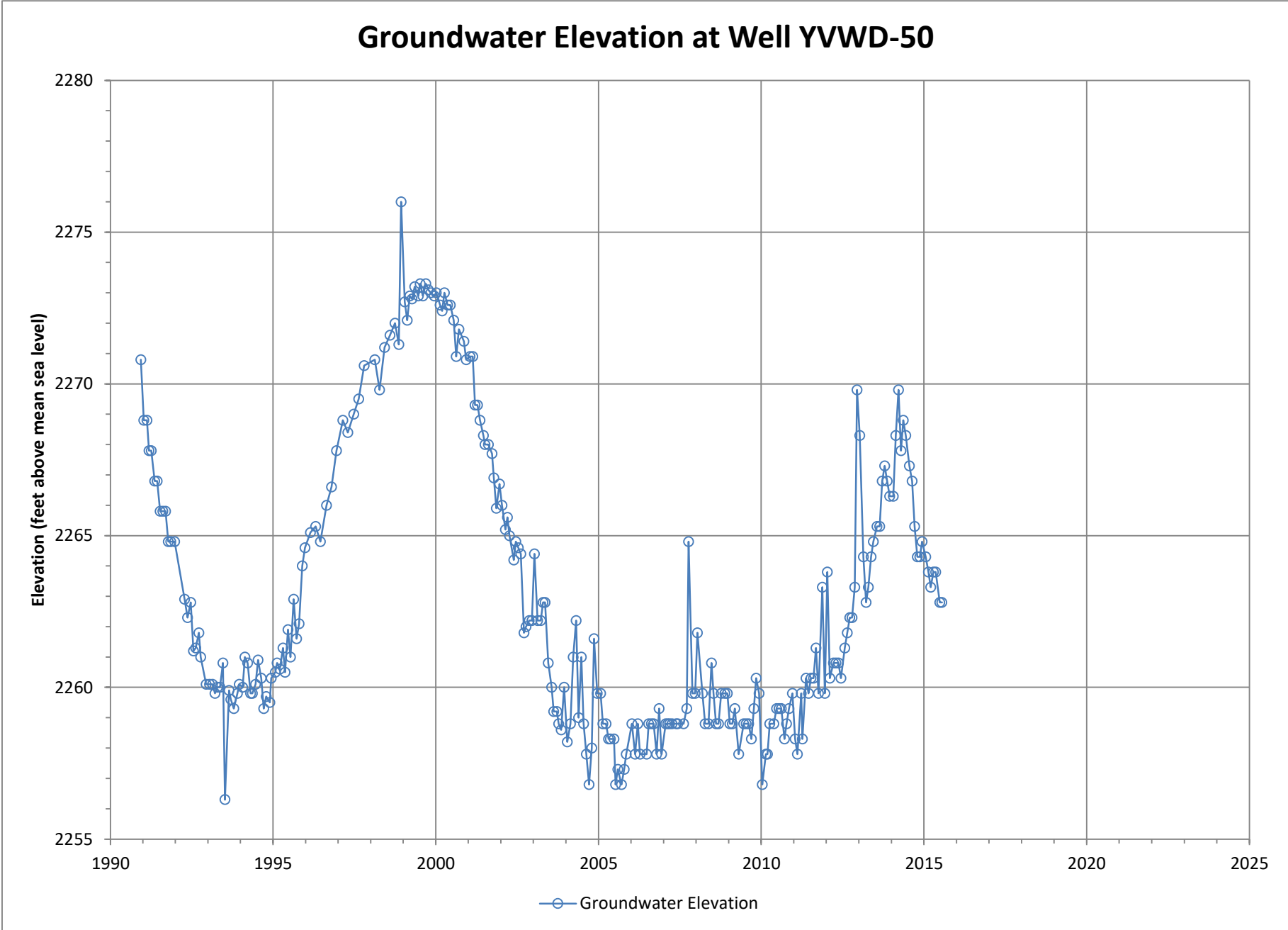


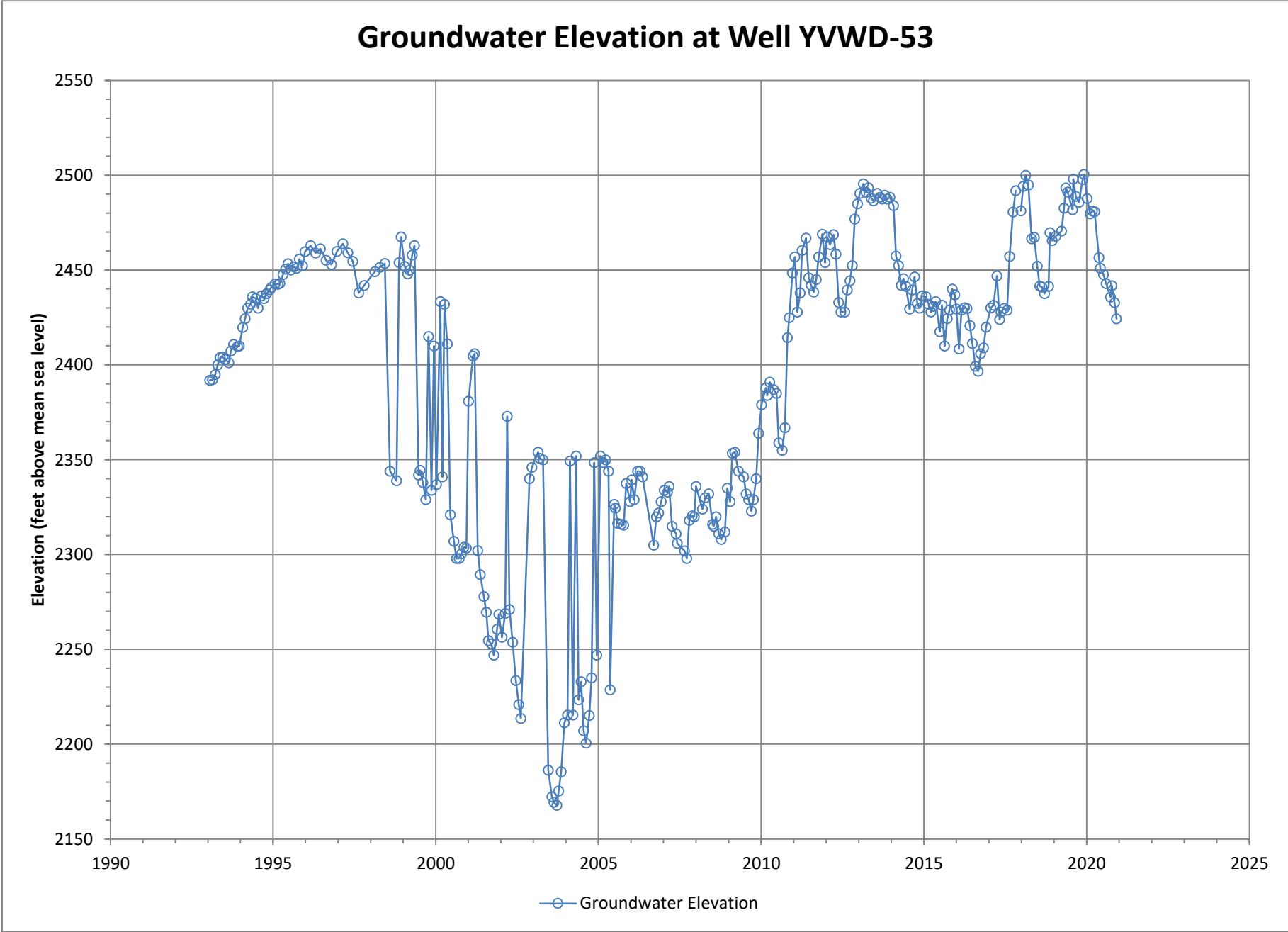


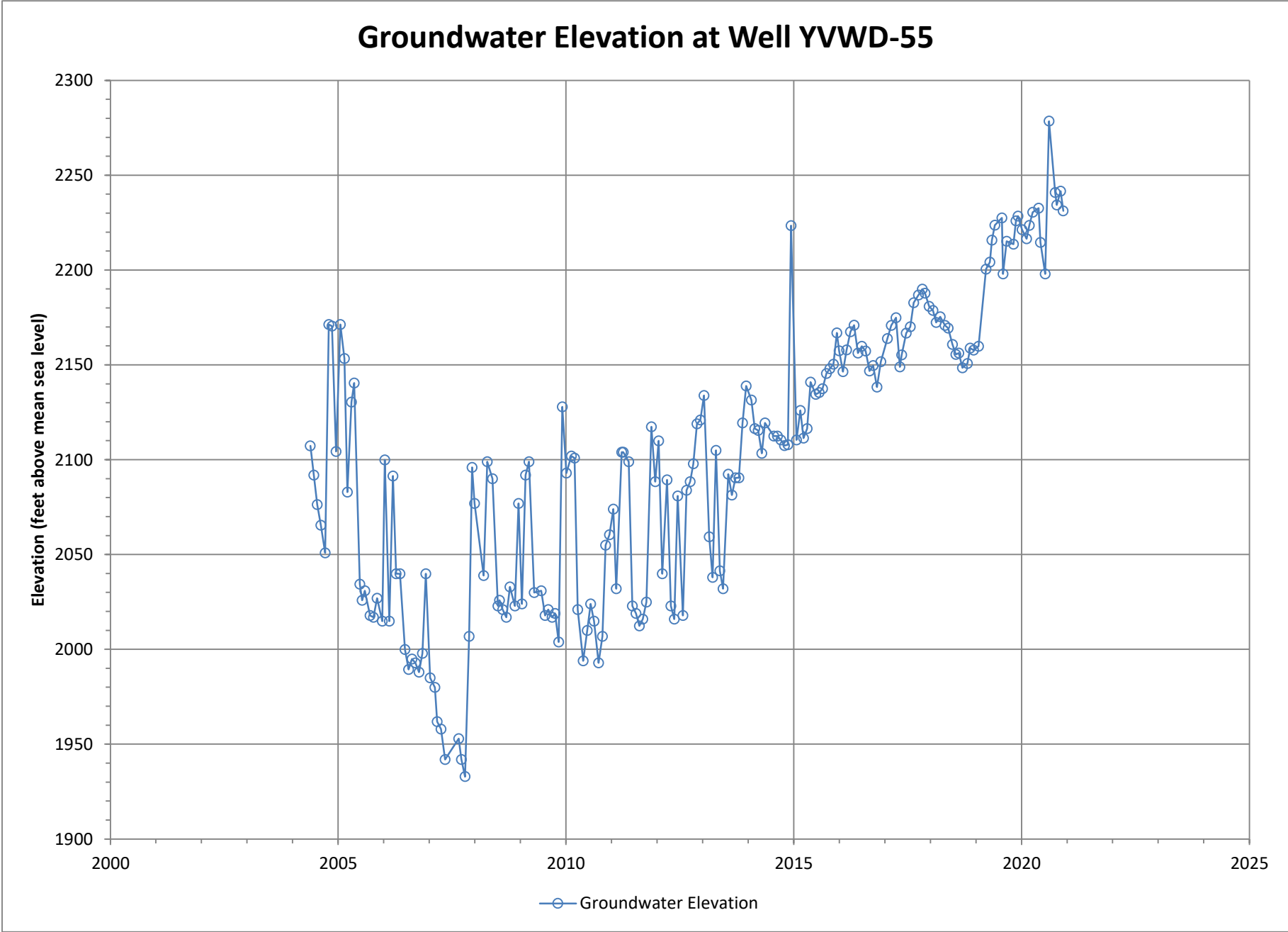


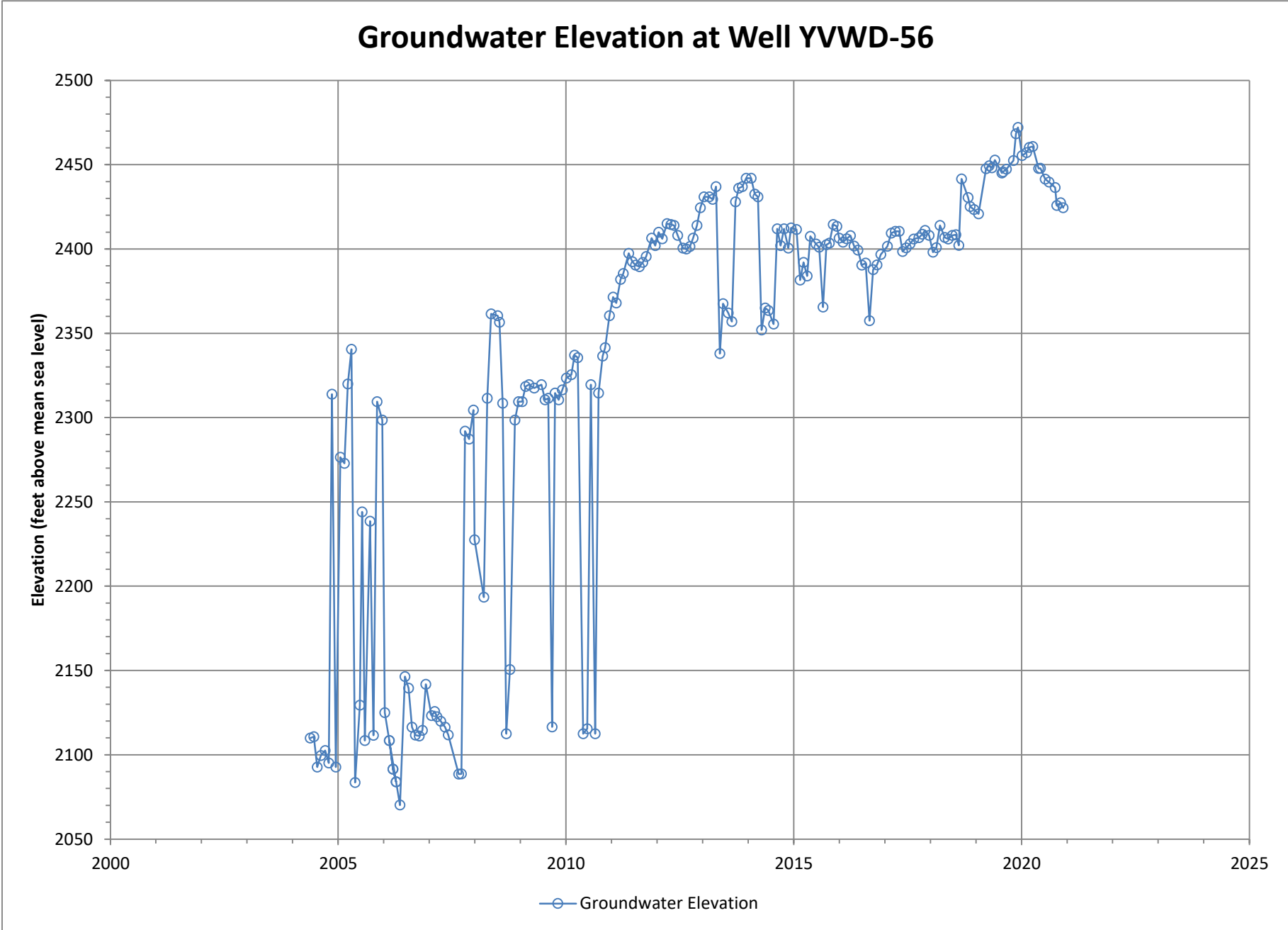












APPENDIX B

Hydrographs for Total Dissolved Solids and Nitrate (as Nitrogen) Groundwater Concentrations at Wells in the Yucaipa Groundwater Management Zone

APPENDIX B

Groundwater Quality Hydrographs for the Yucaipa Groundwater Management Zone

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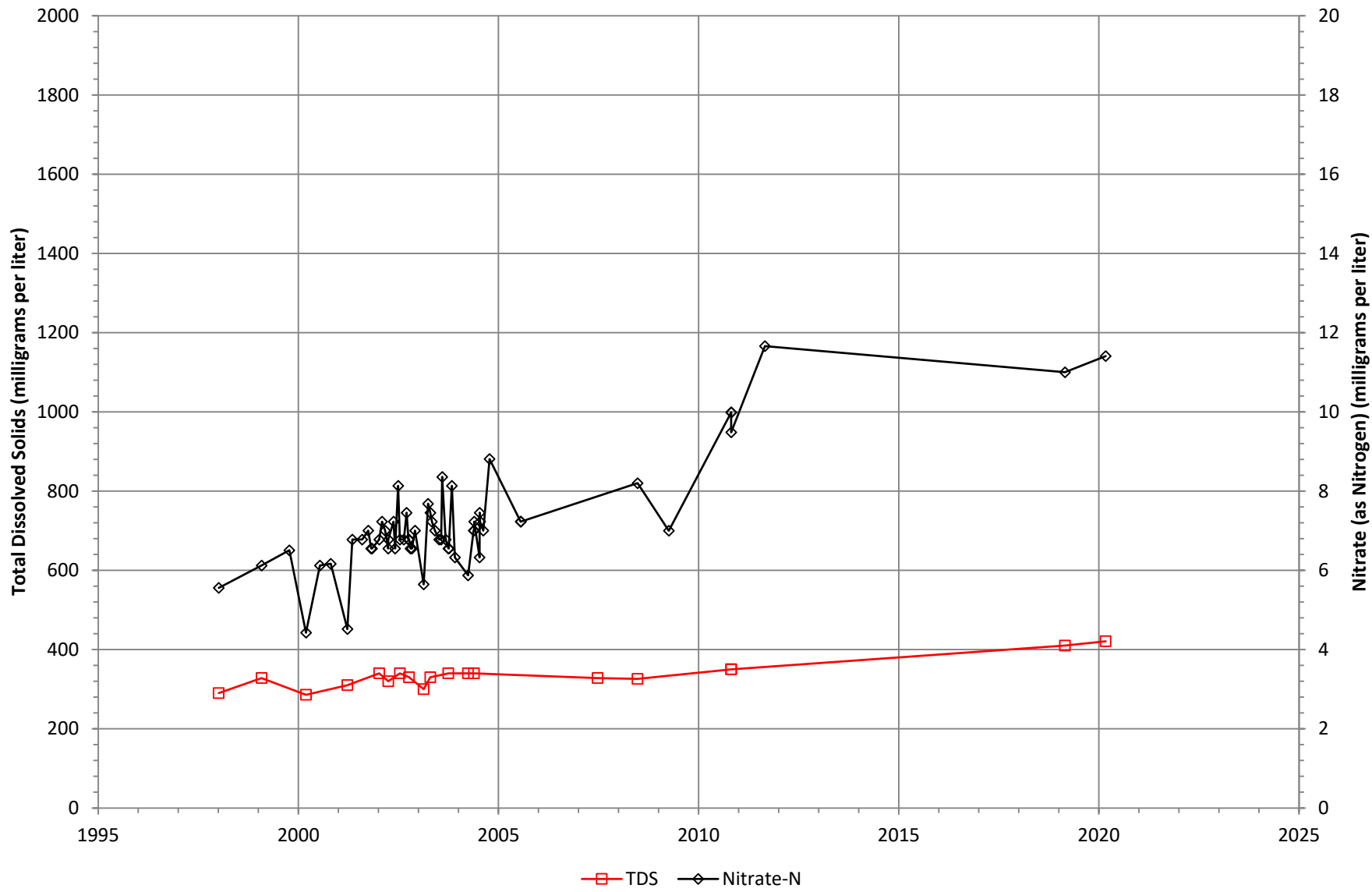
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- B-7 Groundwater Quality Hydrograph at Well Y-04
- B-8 Groundwater Quality Hydrograph at Well Y-05
- B-9 Groundwater Quality Hydrograph at Well Y-08
- B-10 Groundwater Quality Hydrograph at Well Y-09A
- B-11 Groundwater Quality Hydrograph at Well Y-09B
- B-12 Groundwater Quality Hydrograph at Well Y-10A
- B-13 Groundwater Quality Hydrograph at Well Y-10B
- B-14 Groundwater Quality Hydrograph at Well Y-11A
- B-15 Groundwater Quality Hydrograph at Well Y-11B
- B-16 Groundwater Quality Hydrograph at Well Y-12
- B-17 Groundwater Quality Hydrograph at Well Y-13
- B-18 Groundwater Quality Hydrograph at Well Y-14
- B-19 Groundwater Quality Hydrograph at Well Y-15
- B-20 Groundwater Quality Hydrograph at Well Y-16
- B-21 Groundwater Quality Hydrograph at Well Y-17
- B-22 Groundwater Quality Hydrograph at Well Y-18
- B-23 Groundwater Quality Hydrograph at Well Y-19 and Y-19R
- B-24 Groundwater Quality Hydrograph at Well Y-21
- B-25 Groundwater Quality Hydrograph at Well Y-22
- B-26 Groundwater Quality Hydrograph at Well Y-23
- B-27 Groundwater Quality Hydrograph at Well Y-24
- B-28 Groundwater Quality Hydrograph at Well Sierra Nursery (GL-3)
- B-29 Groundwater Quality Hydrograph at Well SMWC-07
- B-30 Groundwater Quality Hydrograph at Well SMWC-09
- B-31 Groundwater Quality Hydrograph at Well SMWC-11
- B-32 Groundwater Quality Hydrograph at Well SMWC-12
- B-33 Groundwater Quality Hydrograph at Well SMWC-16
- B-34 Groundwater Quality Hydrograph at USGS Well 6th Street and Ave E 01

Figure

- B-35 Groundwater Quality Hydrograph at USGS Well 6th Street and Ave E 02
- B-36 Groundwater Quality Hydrograph at USGS Well 6th Street and Ave E 03
- B-37 Groundwater Quality Hydrograph at USGS Well 6th Street and Ave E 04
- B-38 Groundwater Quality Hydrograph at USGS Well 6th Street and Ave E 05
- B-39 Groundwater Quality Hydrograph at USGS Well Dunlap Acres 01
- B-40 Groundwater Quality Hydrograph at USGS Well Dunlap Acres 02
- B-41 Groundwater Quality Hydrograph at USGS Well Dunlap Acres 03
- B-42 Groundwater Quality Hydrograph at USGS Well Dunlap Acres 04
- B-43 Groundwater Quality Hydrograph at USGS Well Dunlap Acres 05
- B-44 Groundwater Quality Hydrograph at USGS Well Equestrian Park on Ave G 01
- B-45 Groundwater Quality Hydrograph at USGS Well Equestrian Park on Ave G 02
- B-46 Groundwater Quality Hydrograph at USGS Well Equestrian Park on Ave G 03
- B-47 Groundwater Quality Hydrograph at USGS Well Equestrian Park on Ave G 04
- B-48 Groundwater Quality Hydrograph at USGS Well Wilson Creek 01
- B-49 Groundwater Quality Hydrograph at USGS Well Wilson Creek 02
- B-50 Groundwater Quality Hydrograph at USGS Well Wilson Creek 03
- B-51 Groundwater Quality Hydrograph at USGS Well Wilson Creek 04
- B-52 Groundwater Quality Hydrograph at Well WHWC-02A
- B-53 Groundwater Quality Hydrograph at Well WHWC-10
- B-54 Groundwater Quality Hydrograph at Well WHWC-11
- B-55 Groundwater Quality Hydrograph at Well WHWC-12
- B-56 Groundwater Quality Hydrograph at Well WHWC-14
- B-57 Groundwater Quality Hydrograph at Well YVWD-02
- B-58 Groundwater Quality Hydrograph at Well YVWD-12
- B-59 Groundwater Quality Hydrograph at Well YVWD-14
- B-60 Groundwater Quality Hydrograph at Well YVWD-16
- B-61 Groundwater Quality Hydrograph at Well YVWD-18
- B-62 Groundwater Quality Hydrograph at Well YVWD-24
- B-63 Groundwater Quality Hydrograph at Well YVWD-25
- B-64 Groundwater Quality Hydrograph at Well YVWD-26
- B-65 Groundwater Quality Hydrograph at Well YVWD-27
- B-66 Groundwater Quality Hydrograph at Well YVWD-37
- B-67 Groundwater Quality Hydrograph at Well YVWD-44
- B-68 Groundwater Quality Hydrograph at Well YVWD-46
- B-69 Groundwater Quality Hydrograph at Well YVWD-53
- B-70 Groundwater Quality Hydrograph at Well YVWD-55
- B-71 Groundwater Quality Hydrograph at Well YVWD-56
- B-72 Groundwater Quality Hydrograph at Well YVWD-61

Total Dissolved Solids and Nitrate (as Nitrogen) at Well Hog Canyon 2 (HOG CYN2)



Total Dissolved Solids and Nitrate (as Nitrogen) at Well Redlands 10

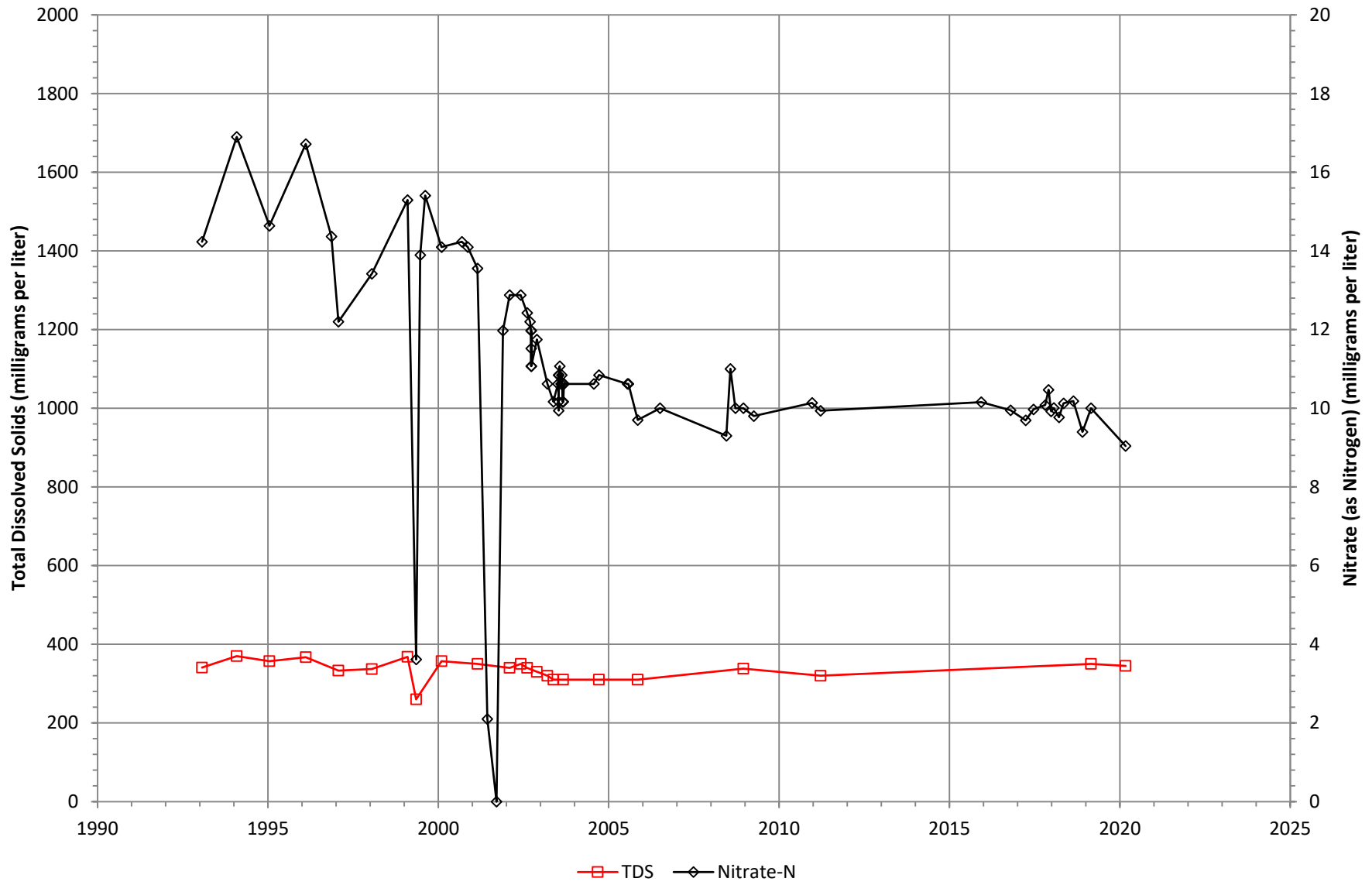
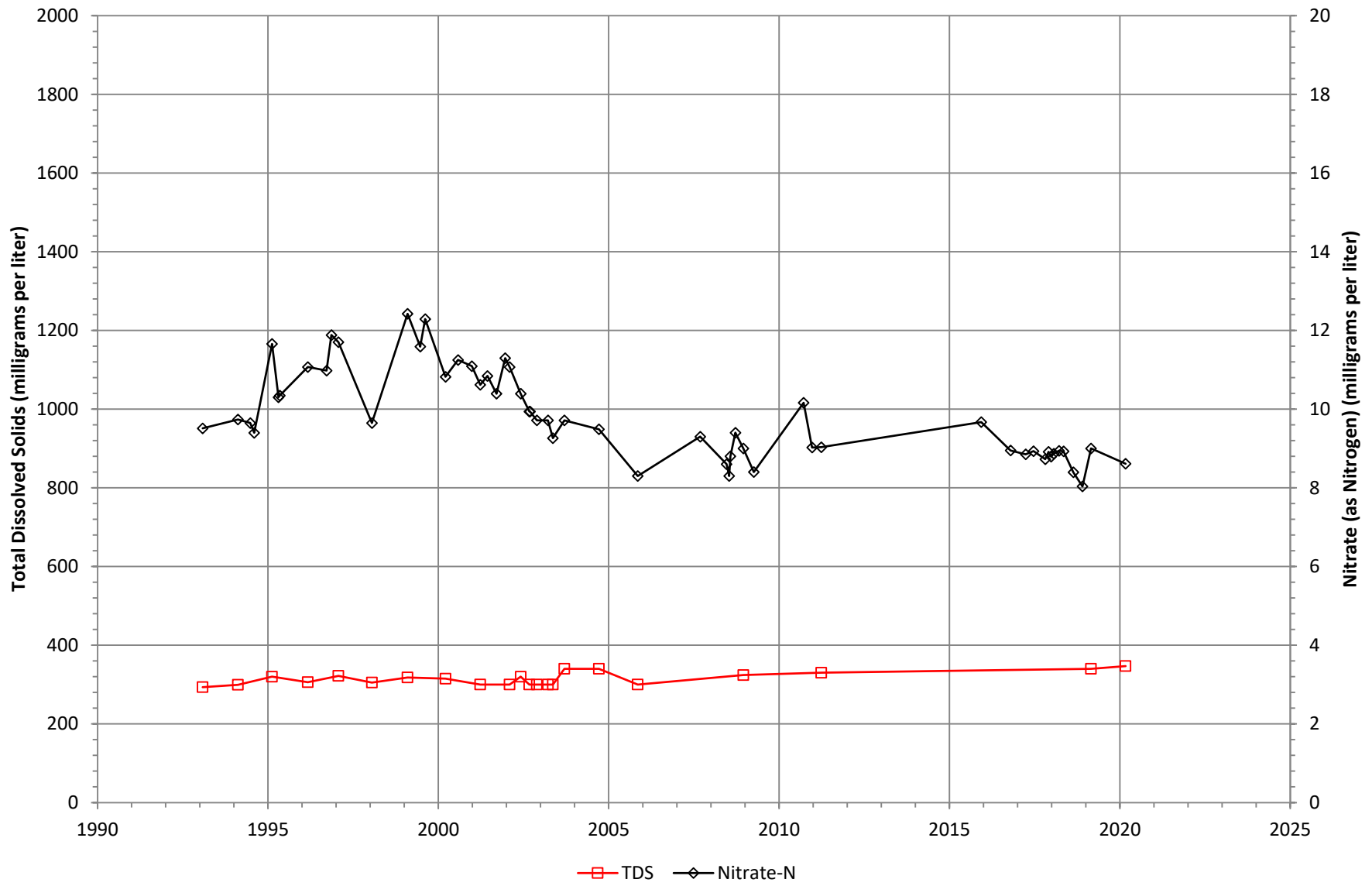
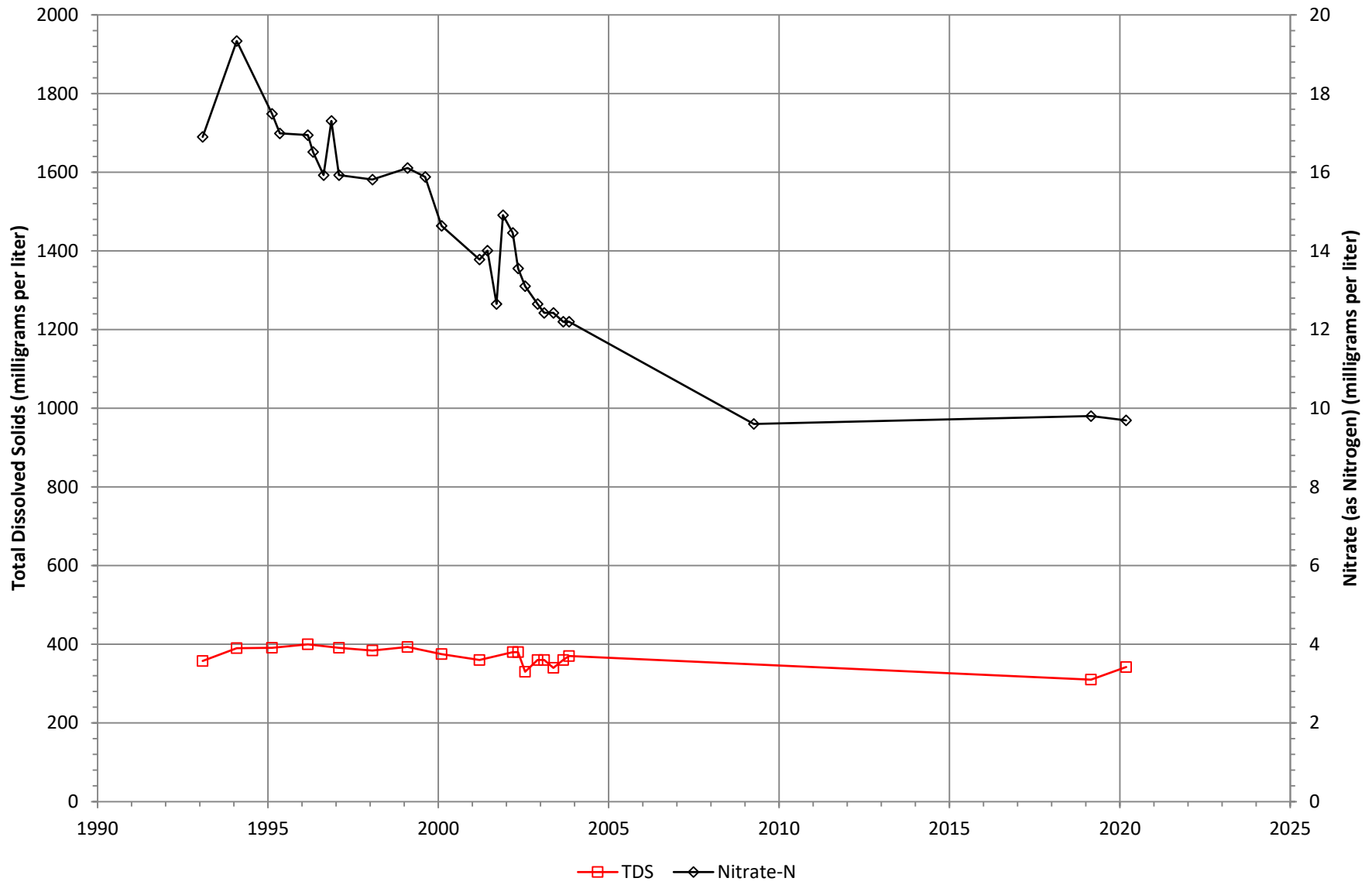


Figure B-1

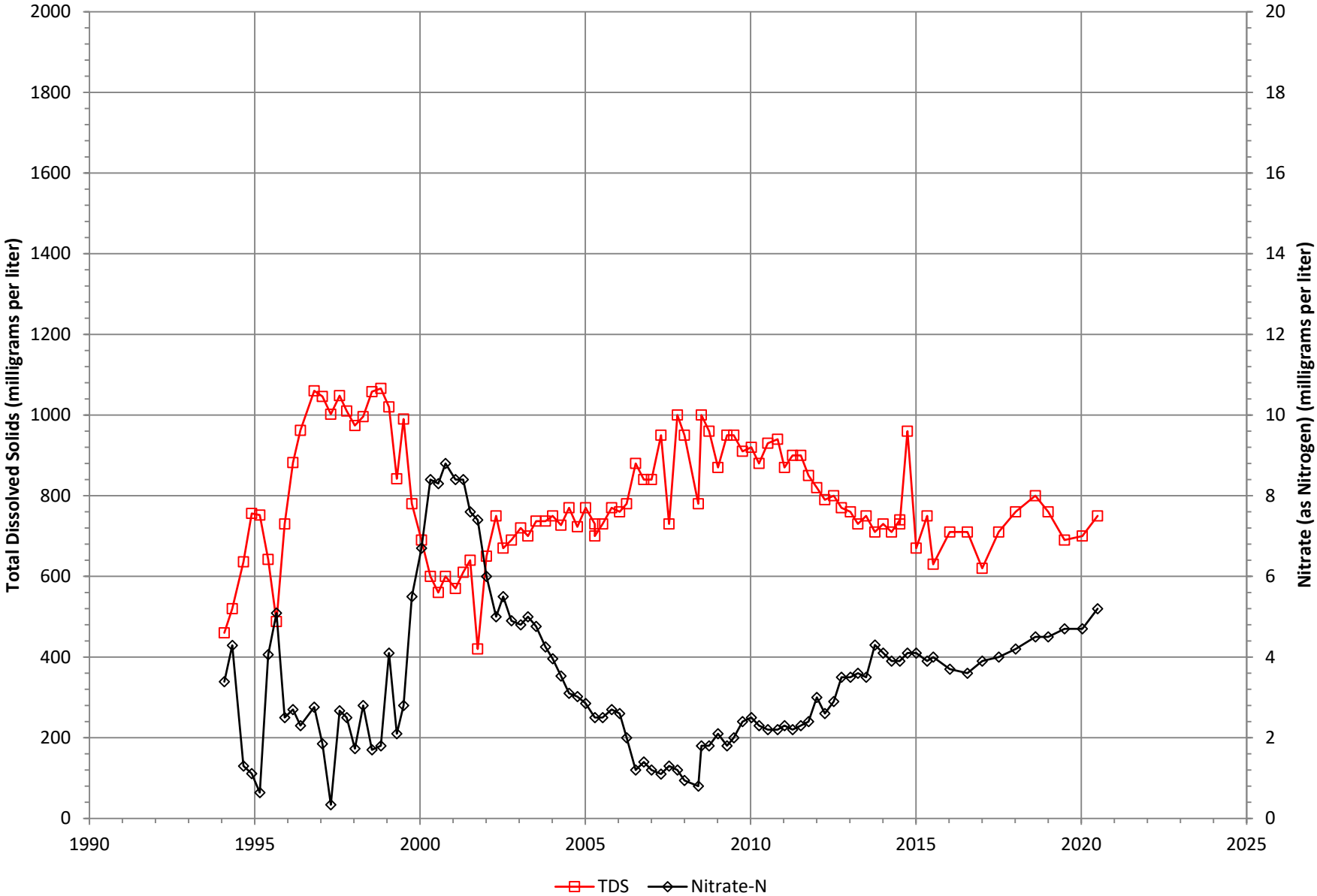
Total Dissolved Solids and Nitrate (as Nitrogen) at Well Redlands 13

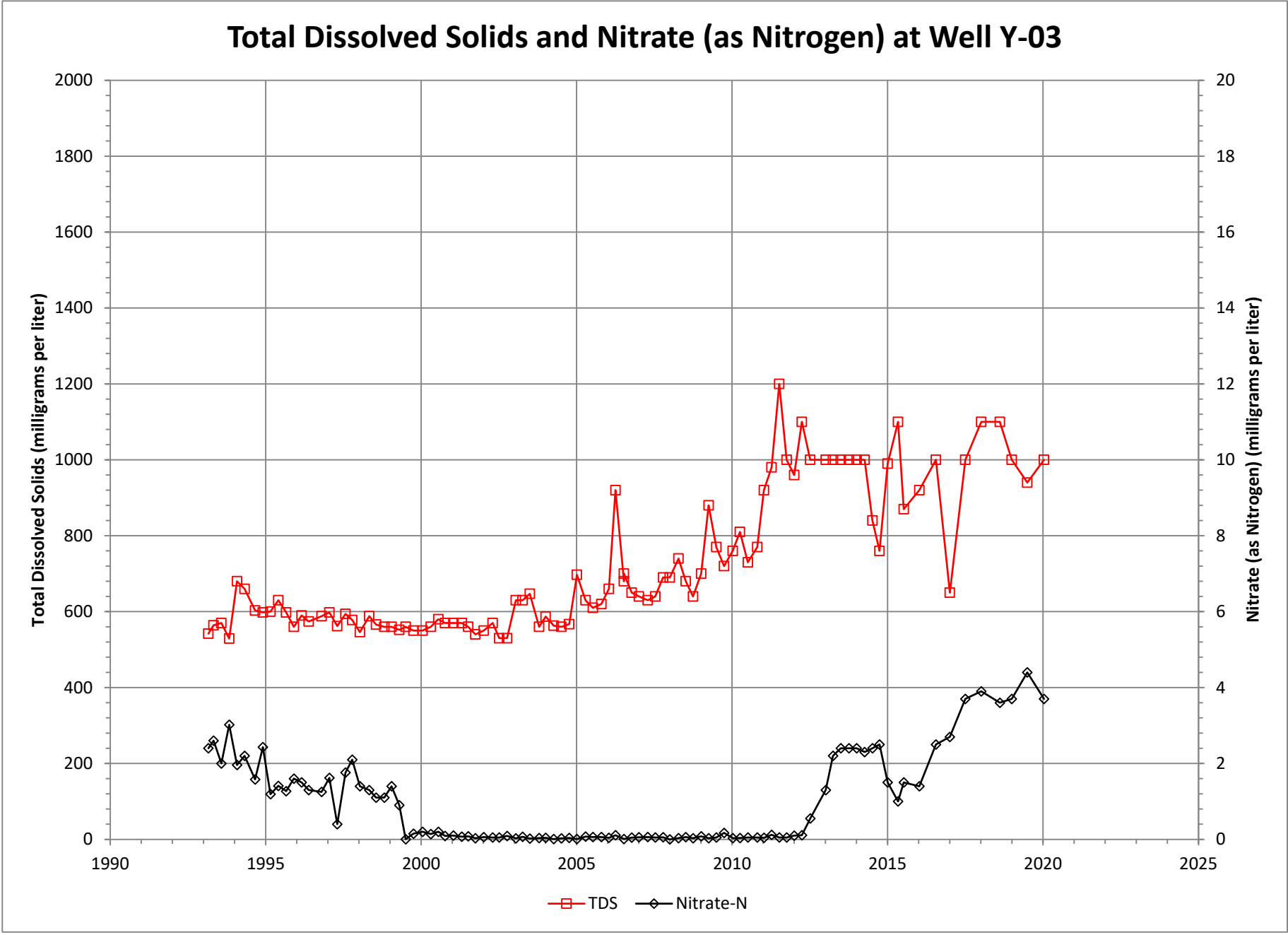


Total Dissolved Solids and Nitrate (as Nitrogen) at Well Redlands 16



Total Dissolved Solids and Nitrate (as Nitrogen) at Well Y-02





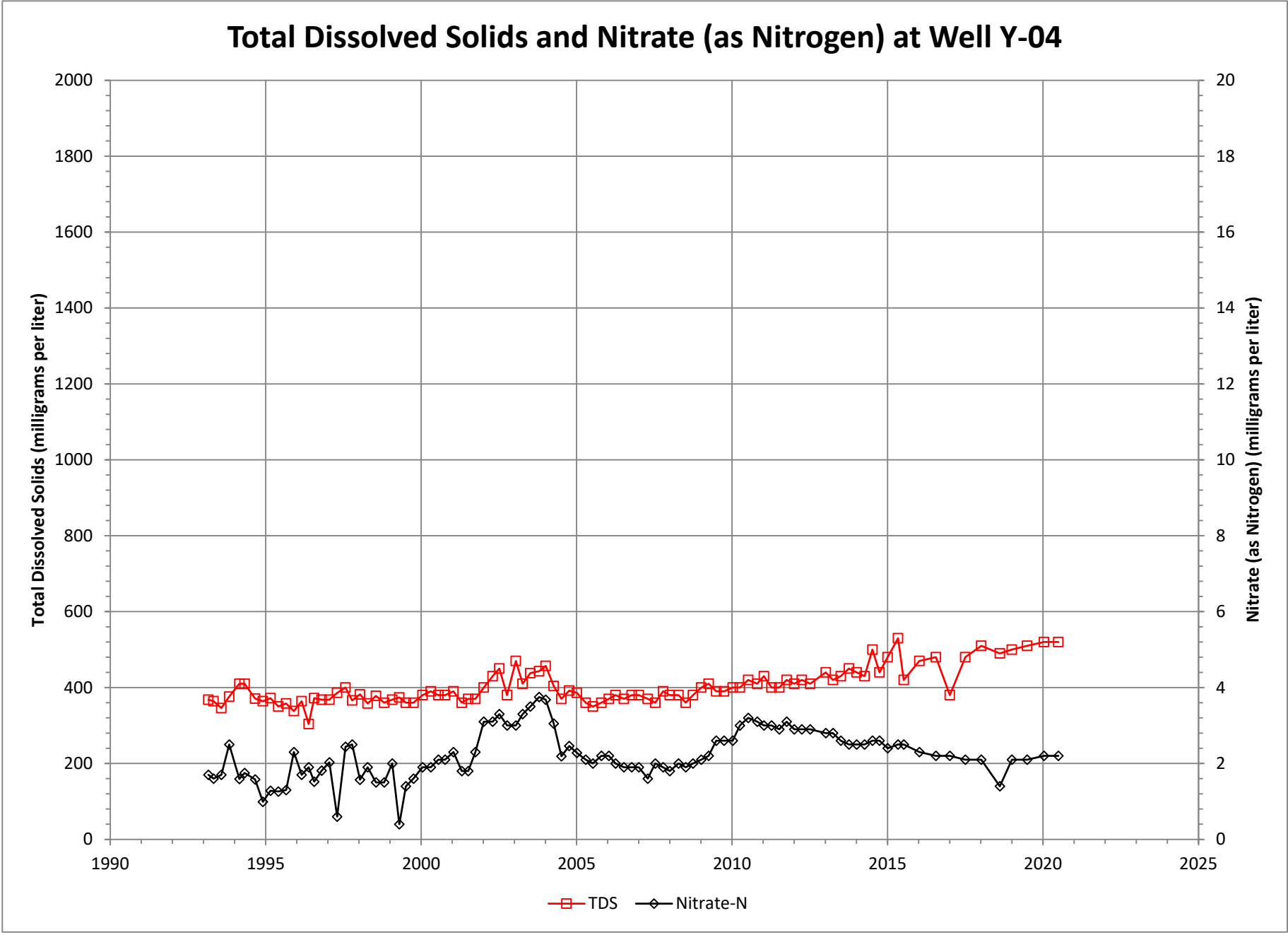
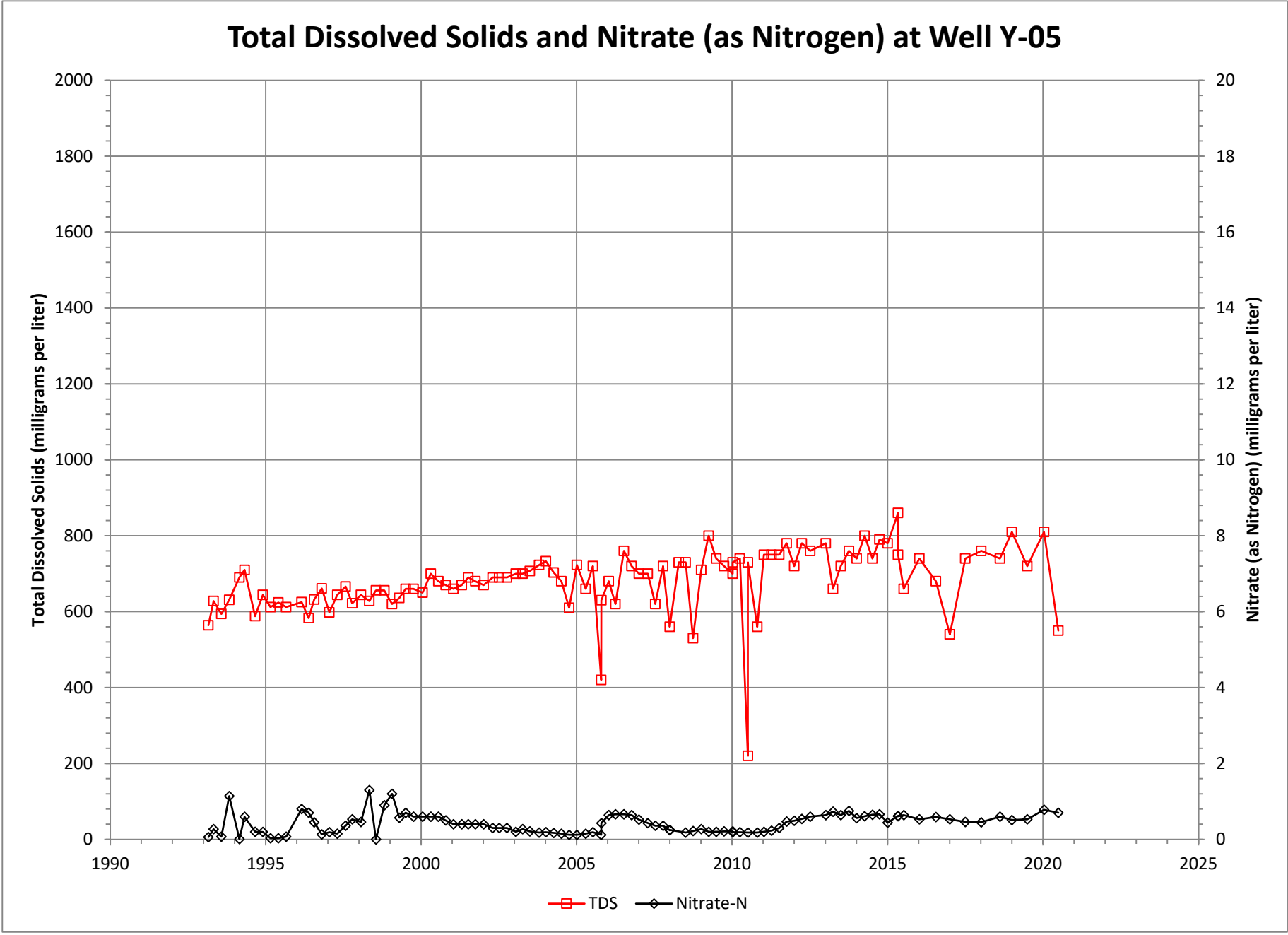
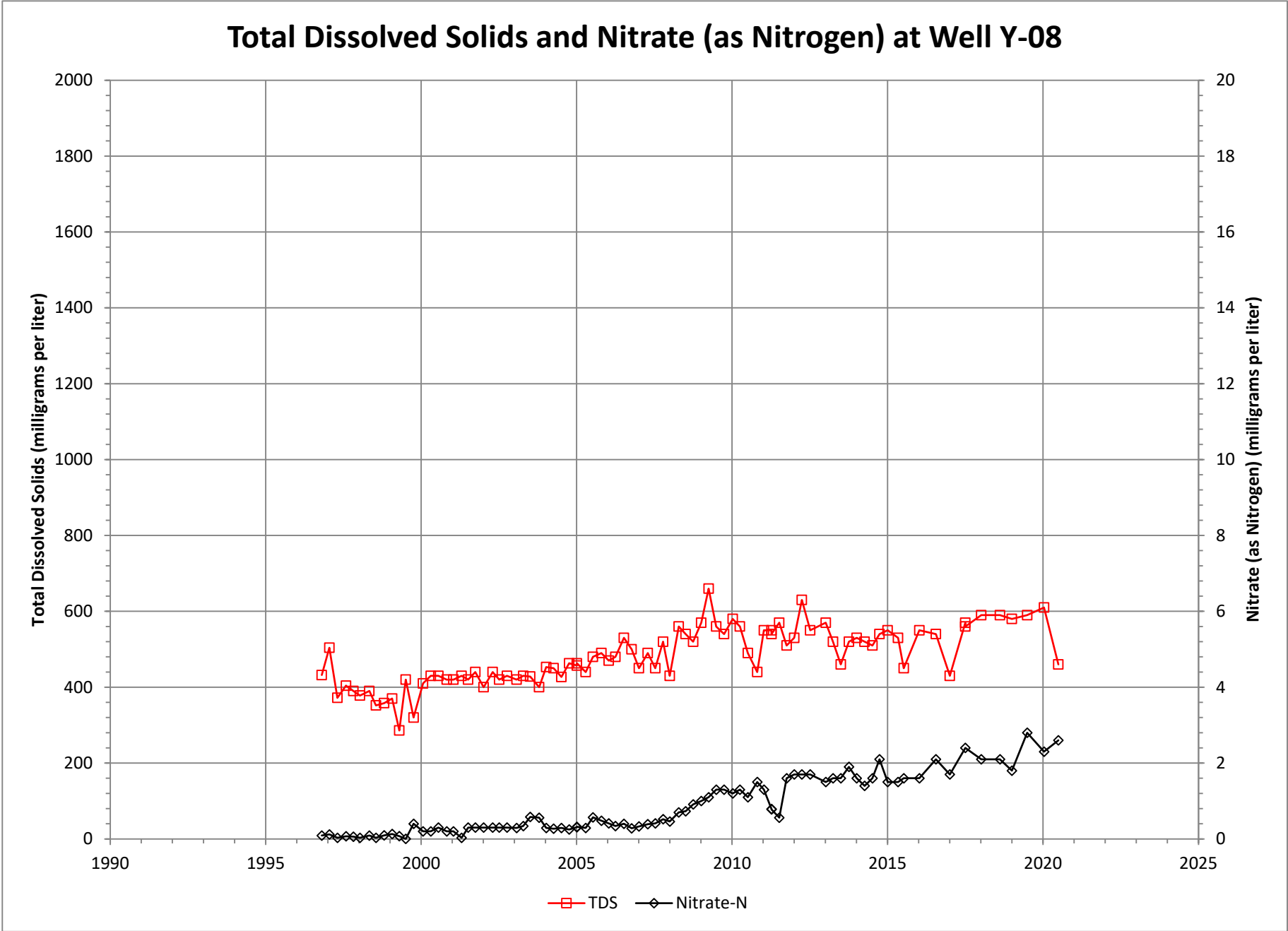
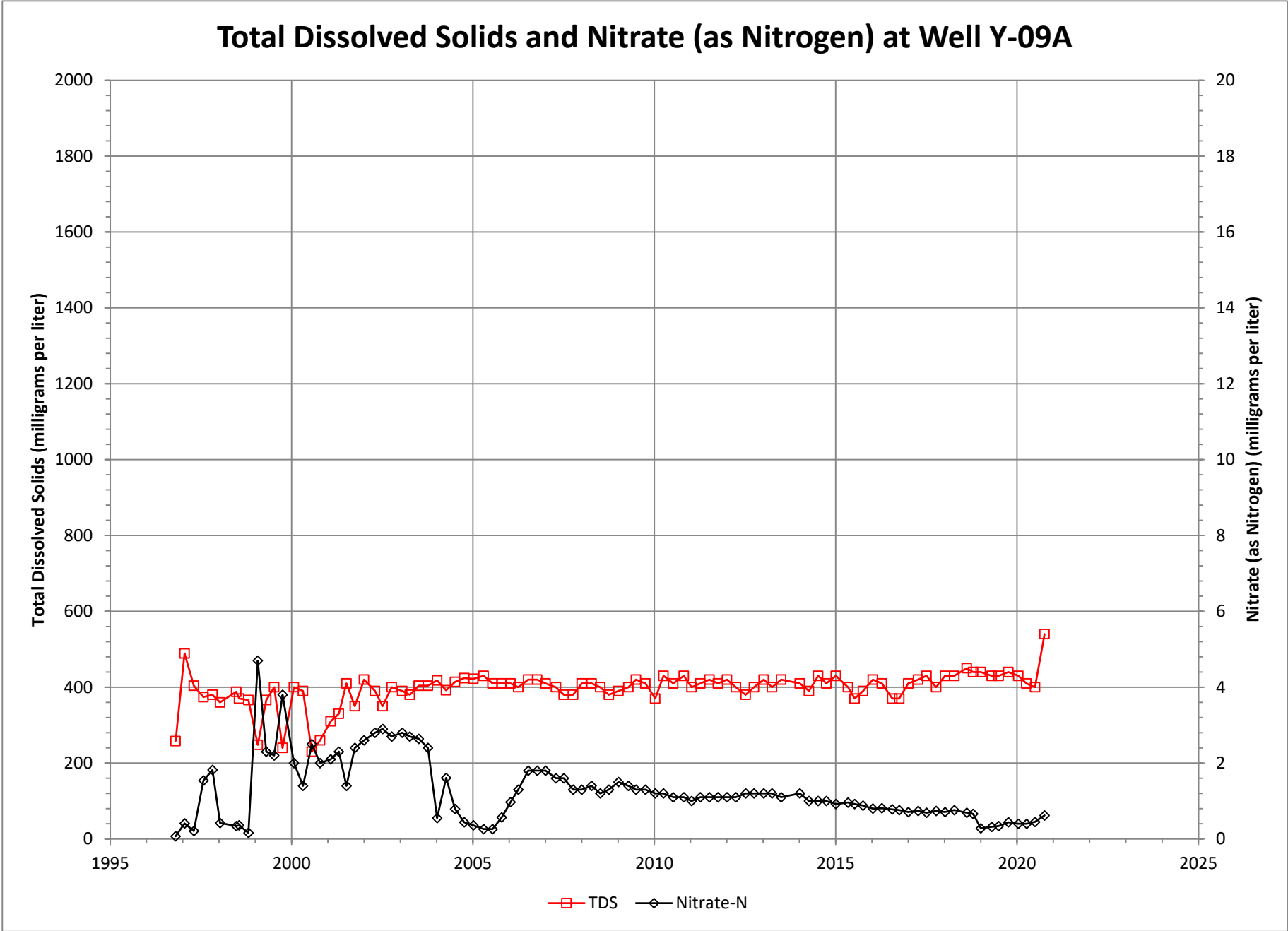


Figure B-1 247







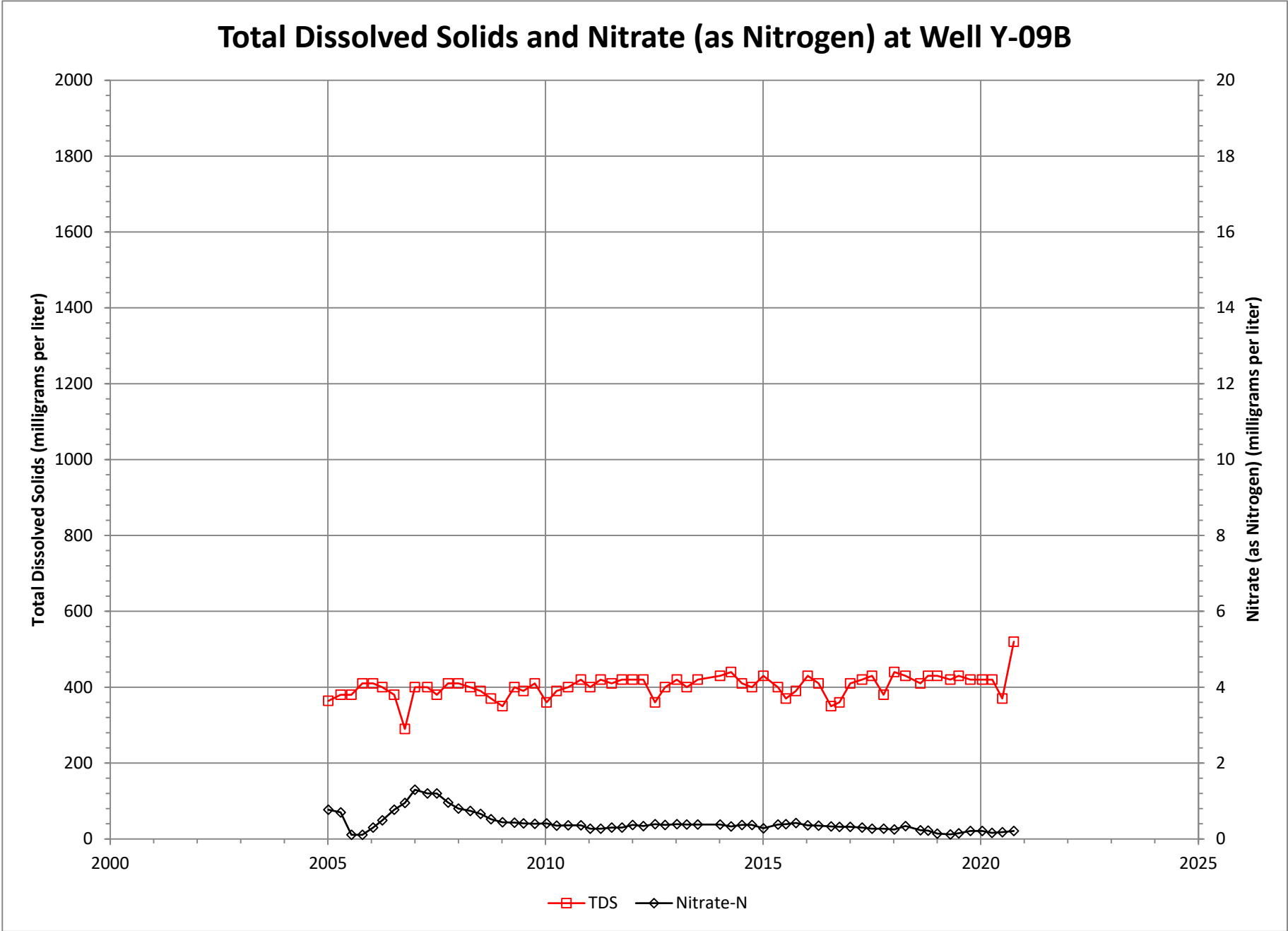
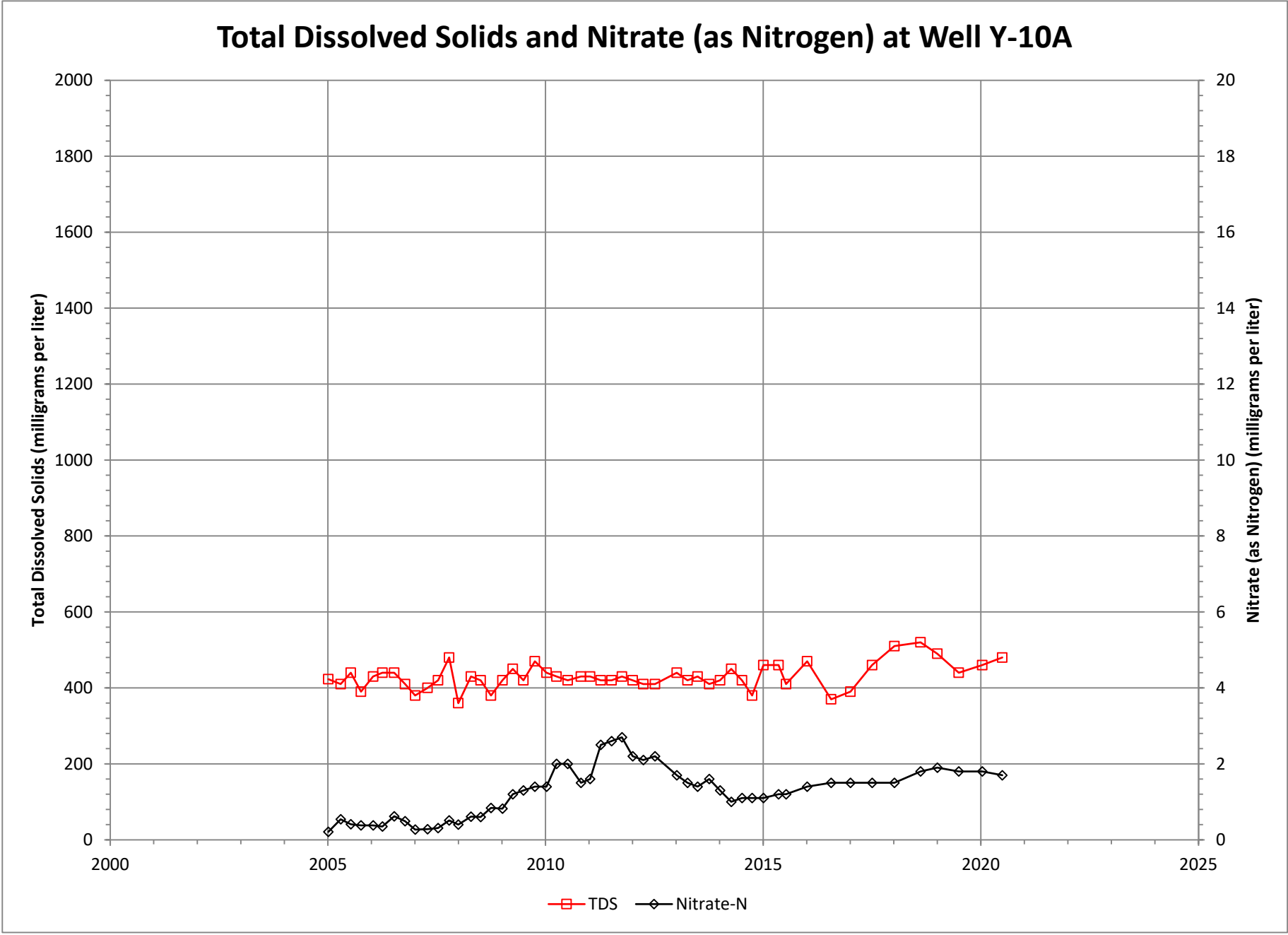
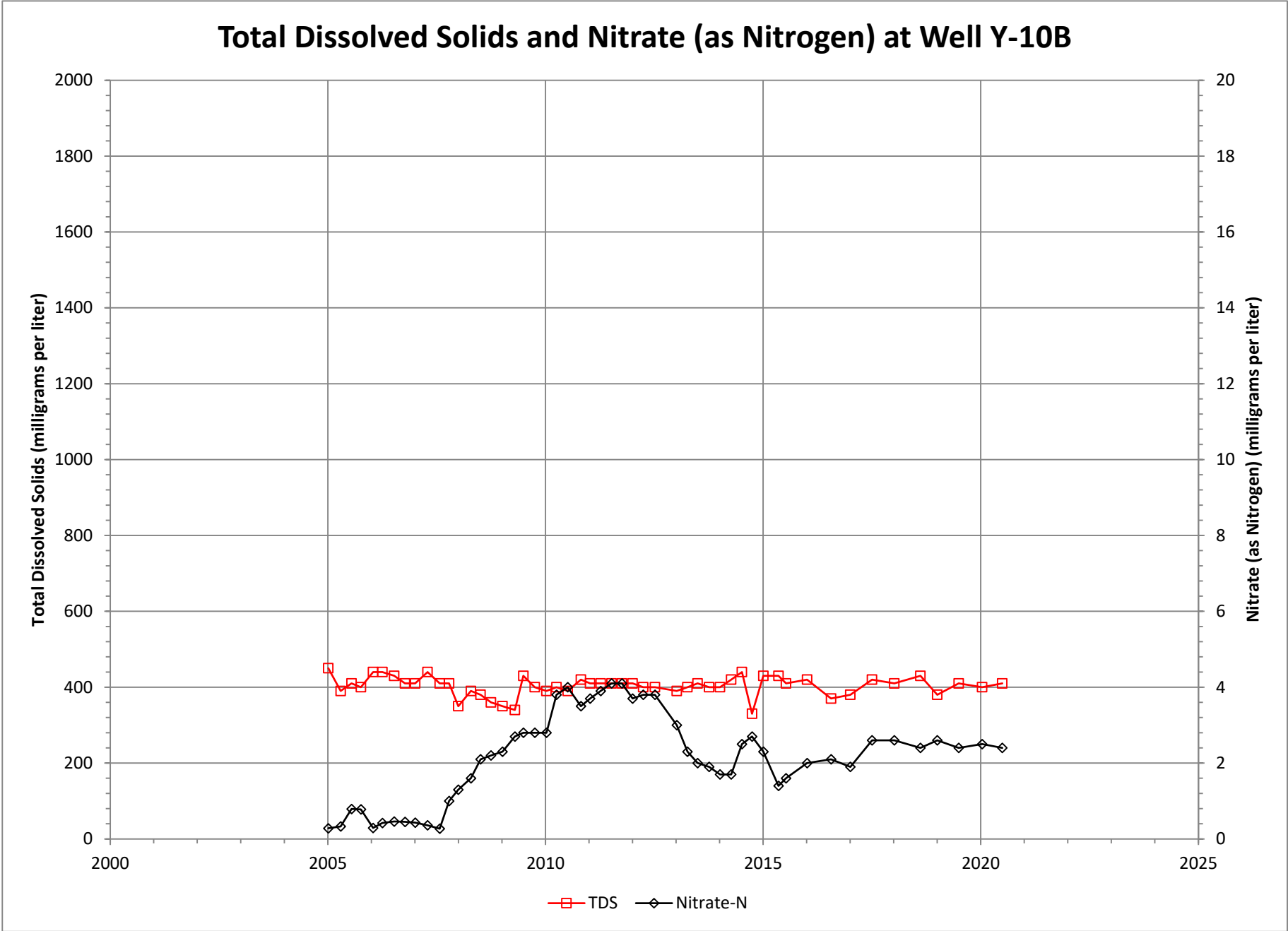
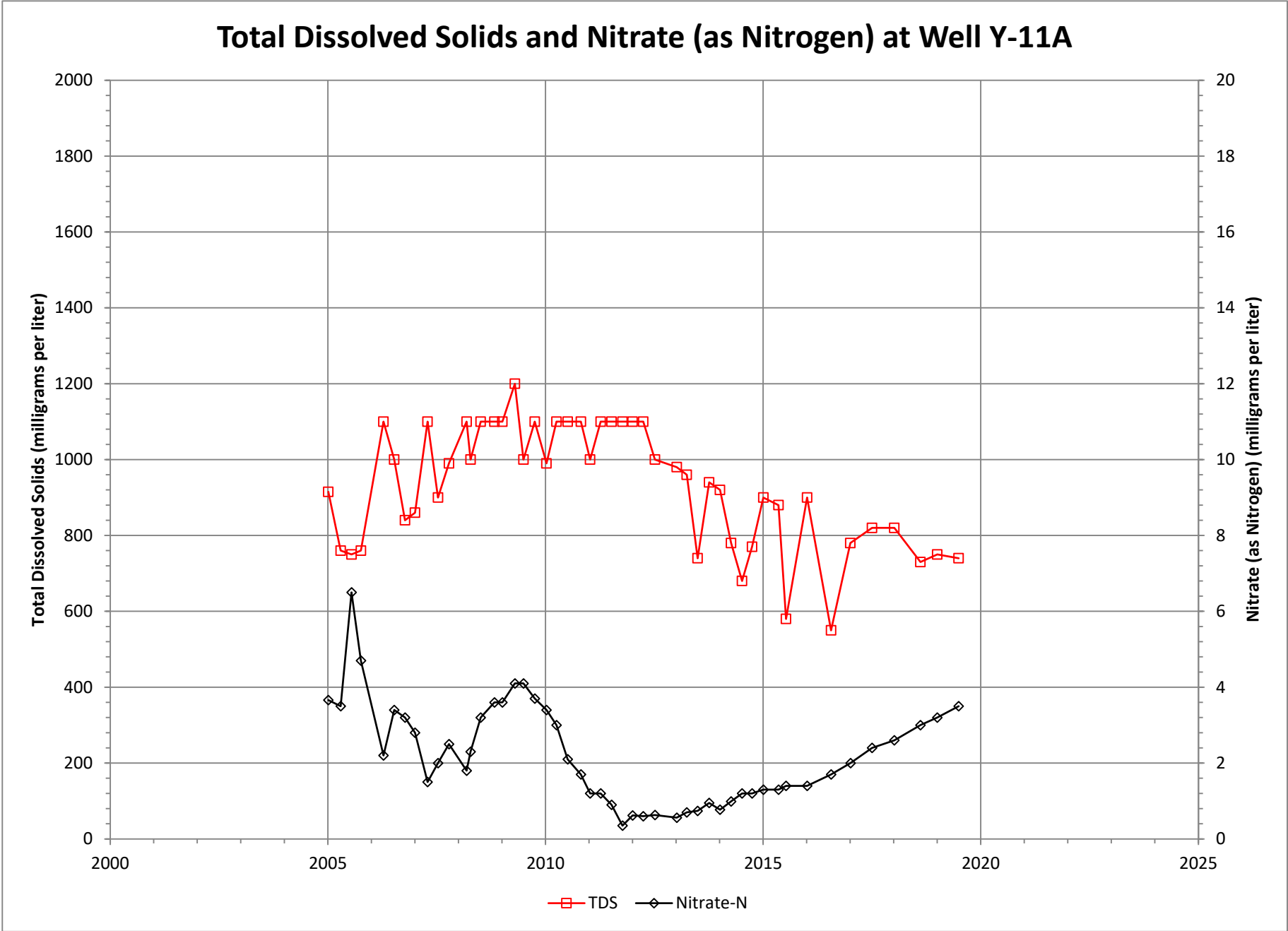
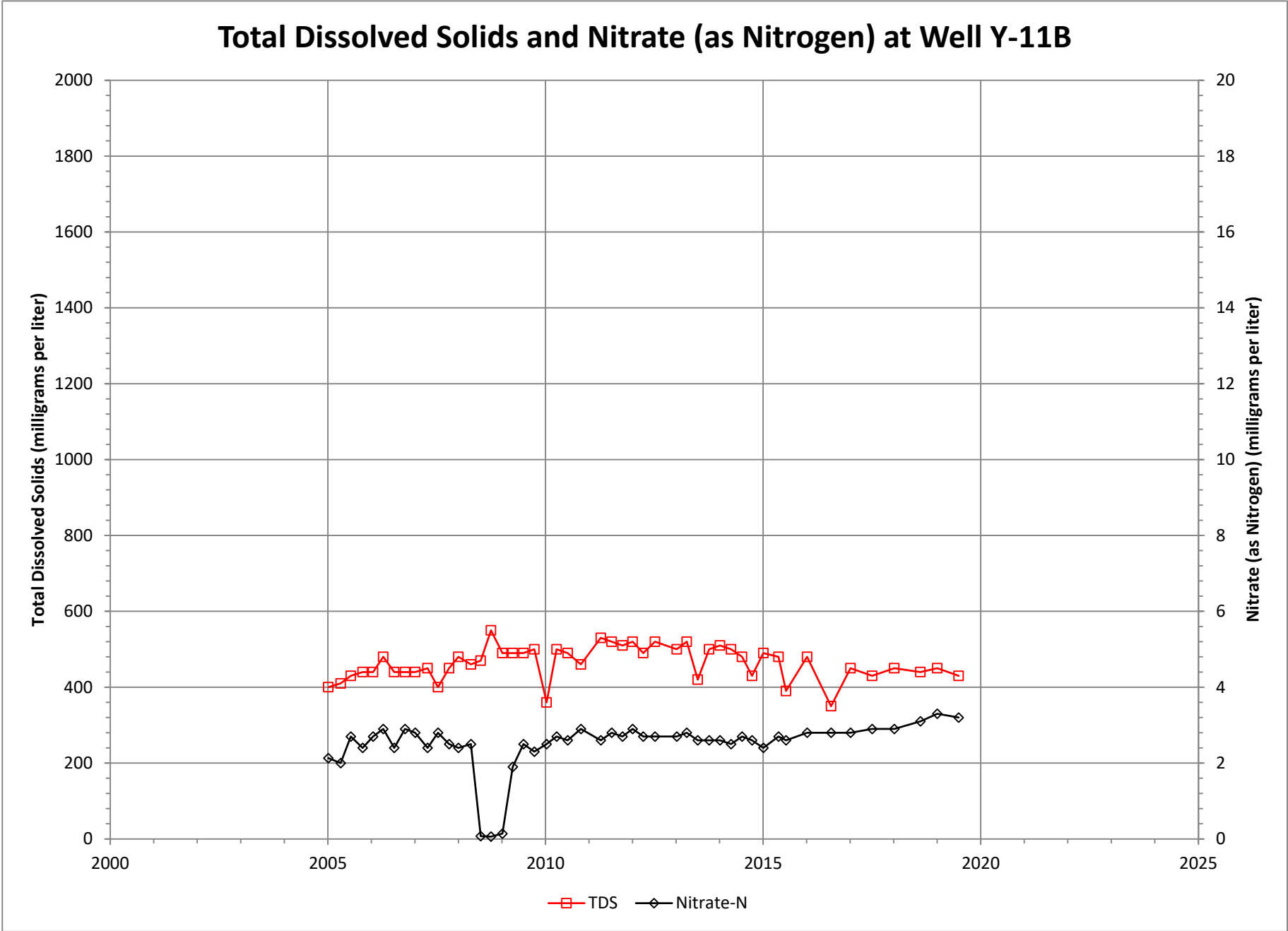


Figure B-1 251









Total Dissolved Solids and Nitrate (as Nitrogen) at Well Y-12

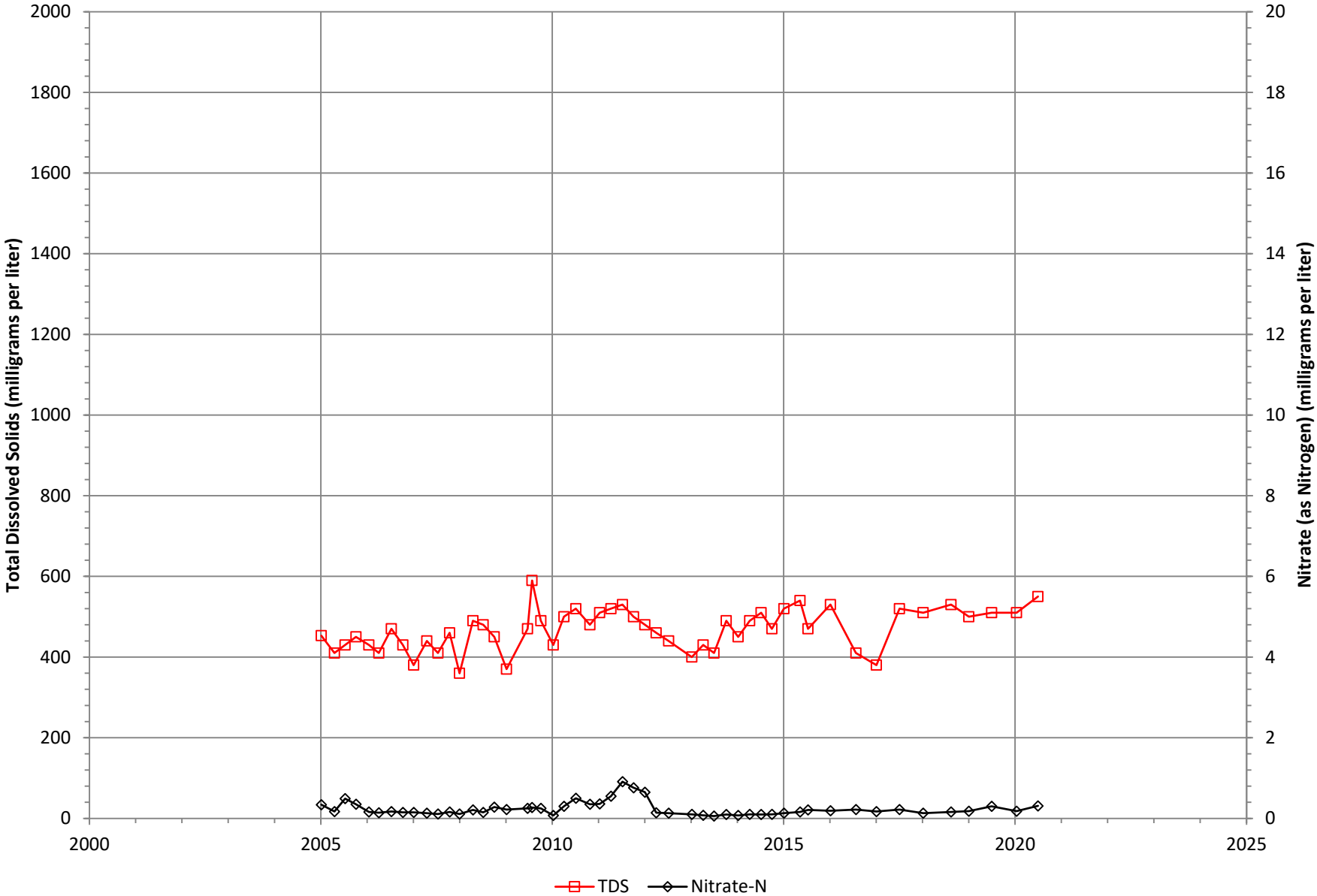


Figure B-10

Total Dissolved Solids and Nitrate (as Nitrogen) at Well Y-13

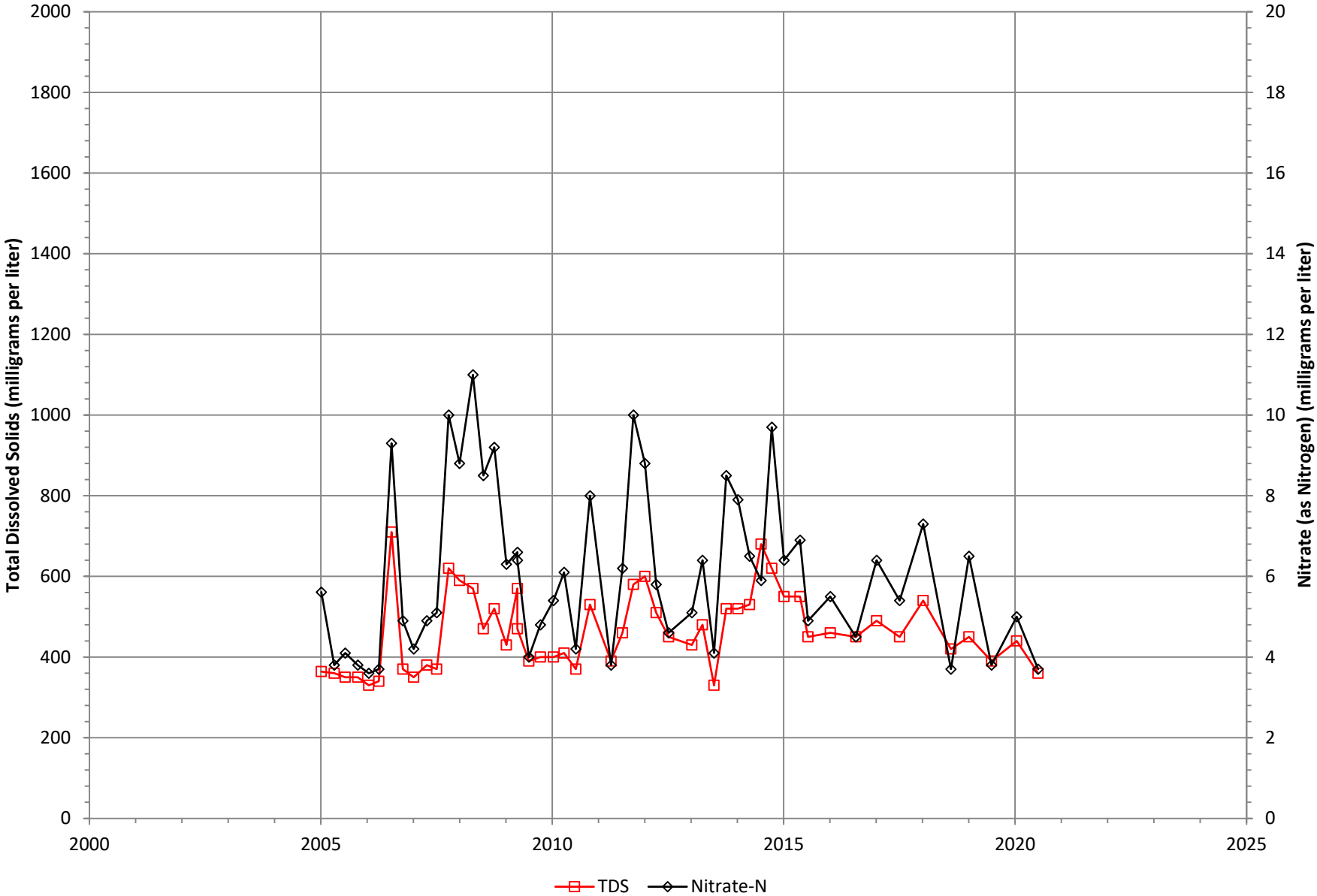


Figure B-11

Total Dissolved Solids and Nitrate (as Nitrogen) at Well Y-14

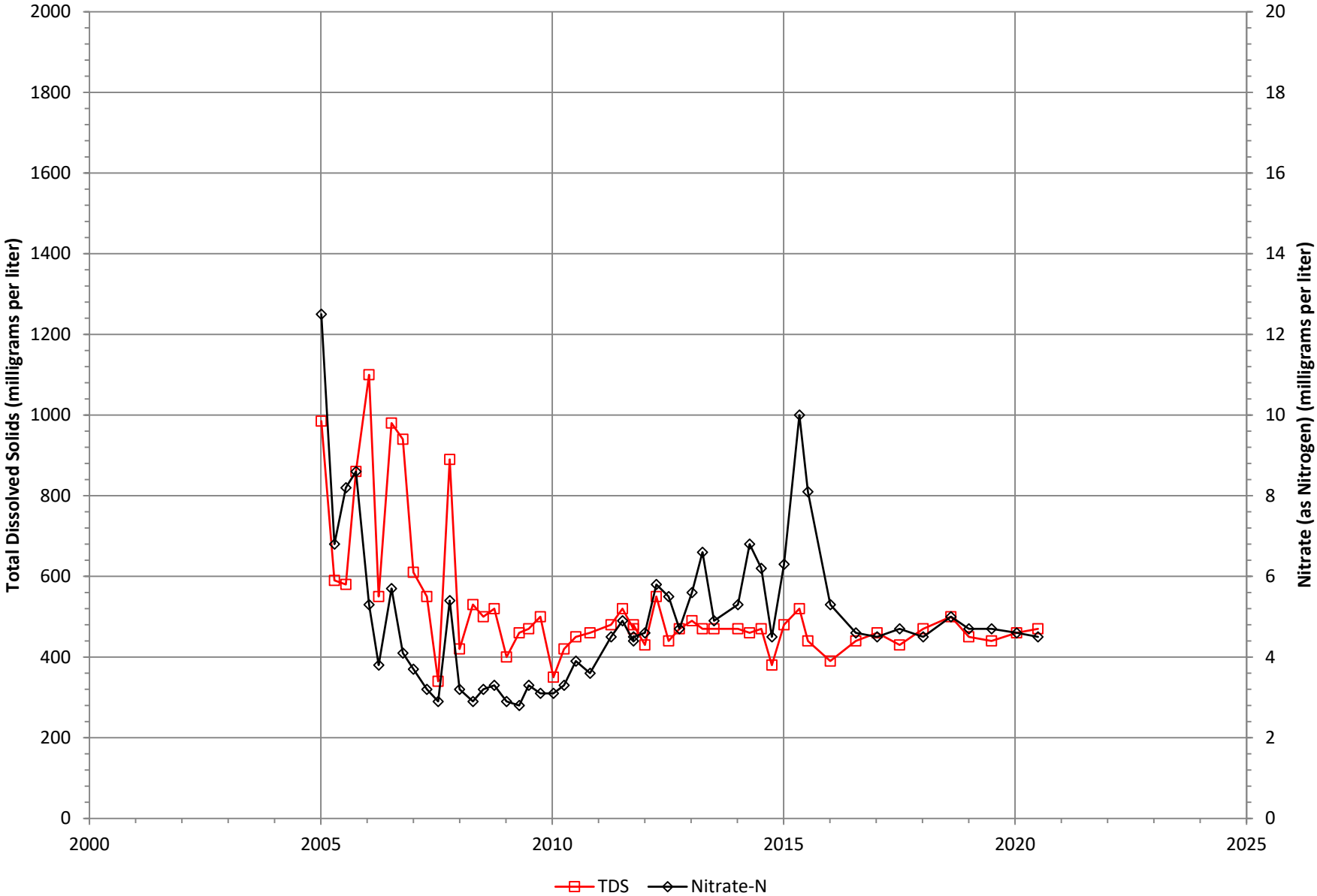
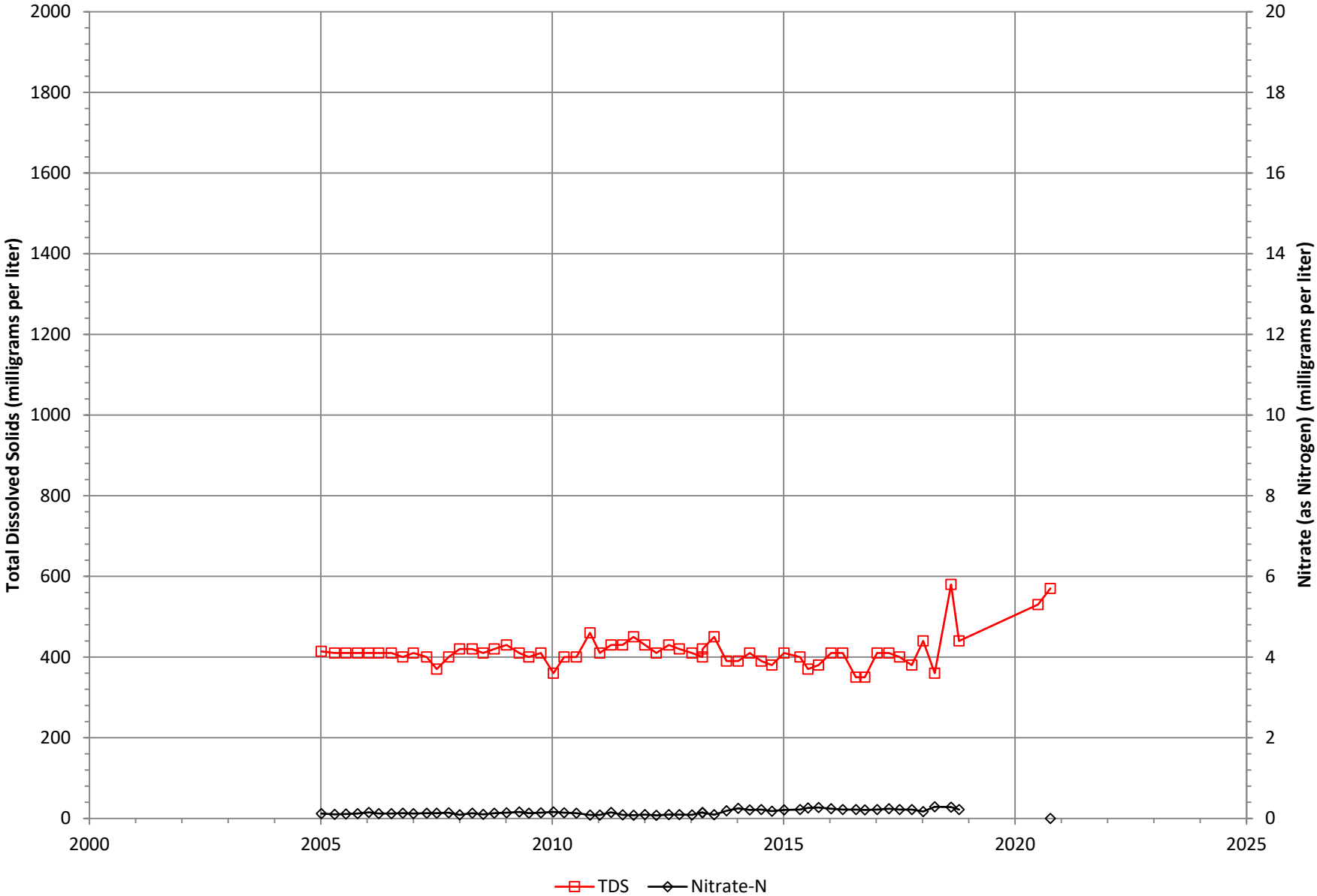
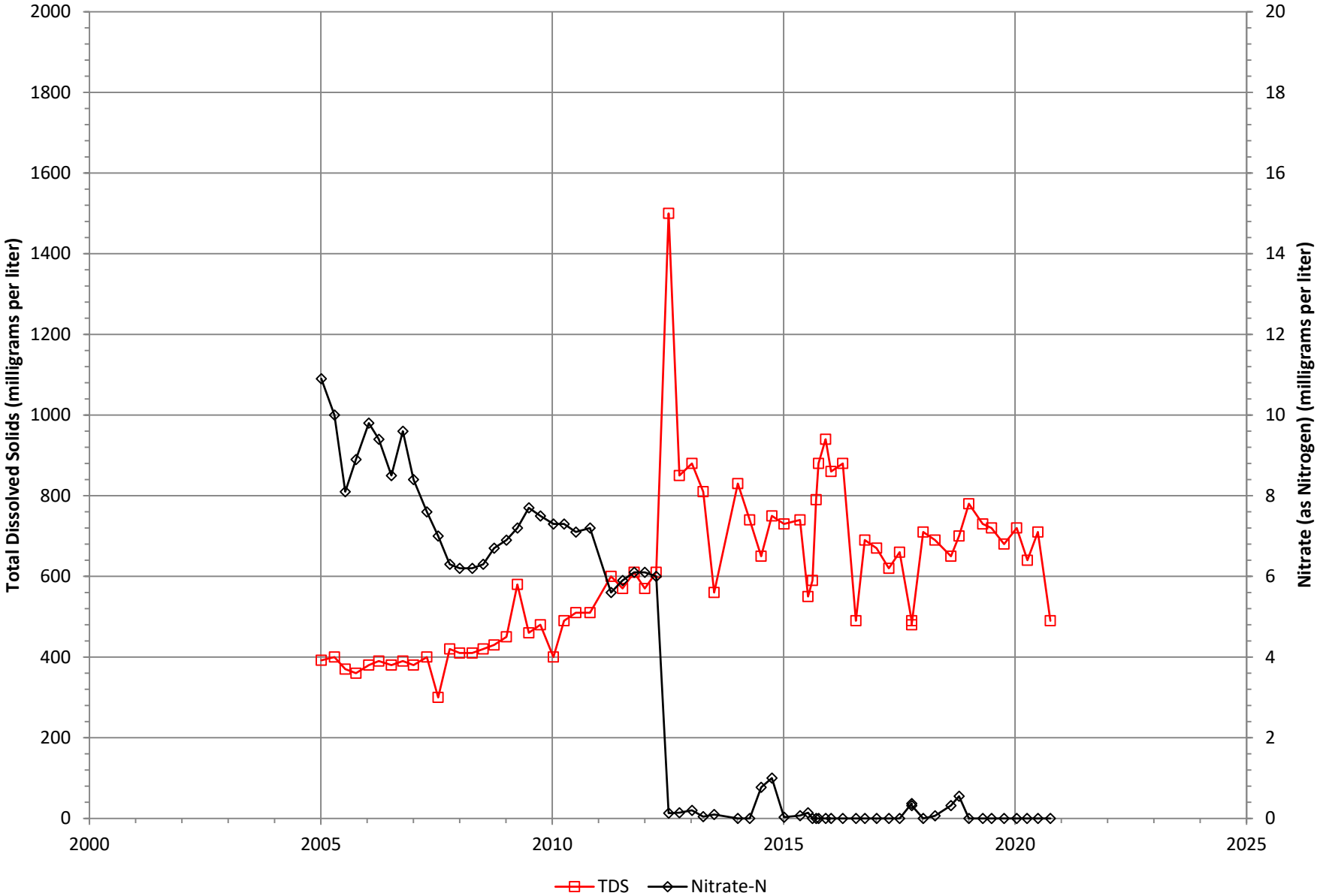


Figure B-18

Total Dissolved Solids and Nitrate (as Nitrogen) at Well Y-15



Total Dissolved Solids and Nitrate (as Nitrogen) at Well Y-16



Total Dissolved Solids and Nitrate (as Nitrogen) at Well Y-17

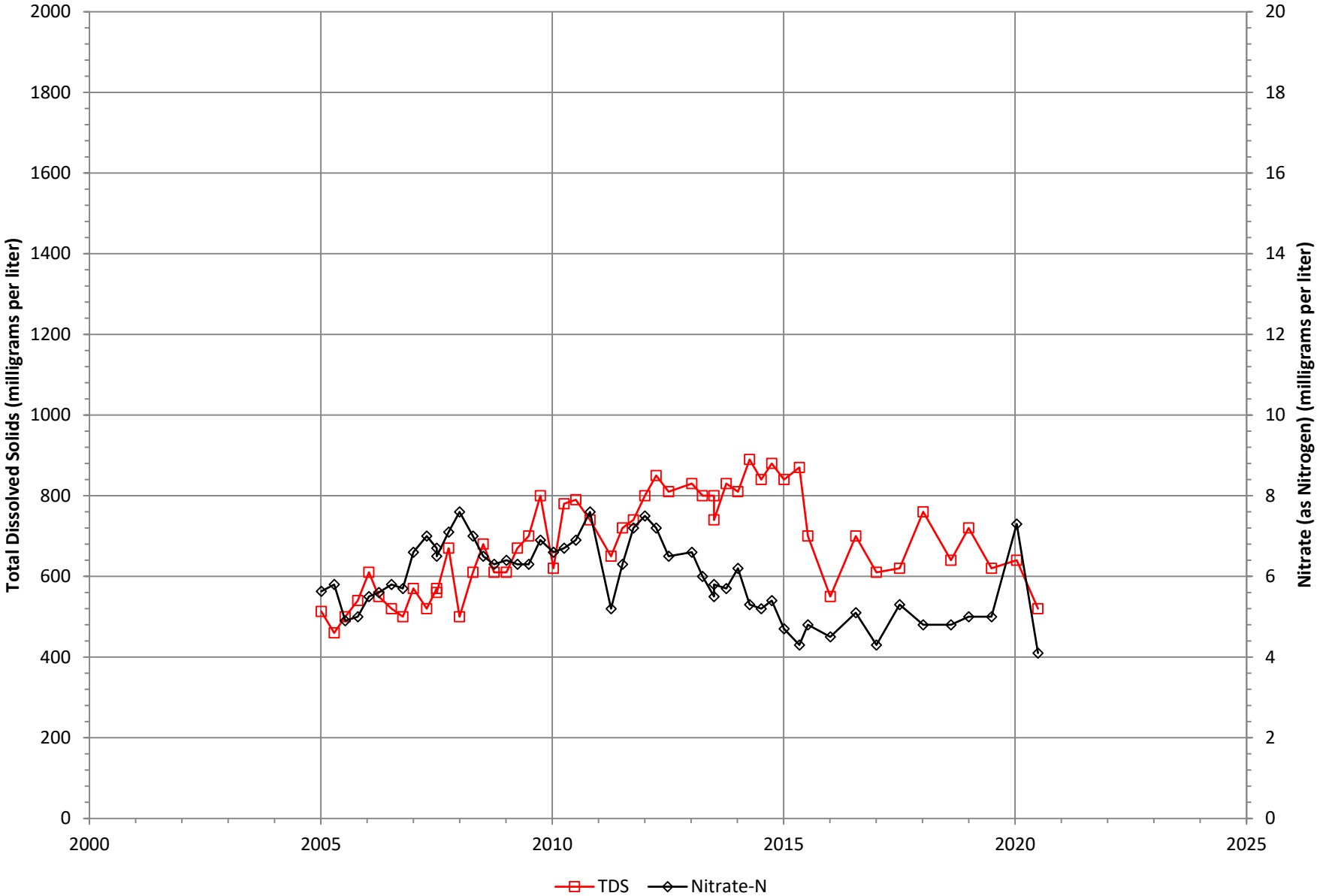
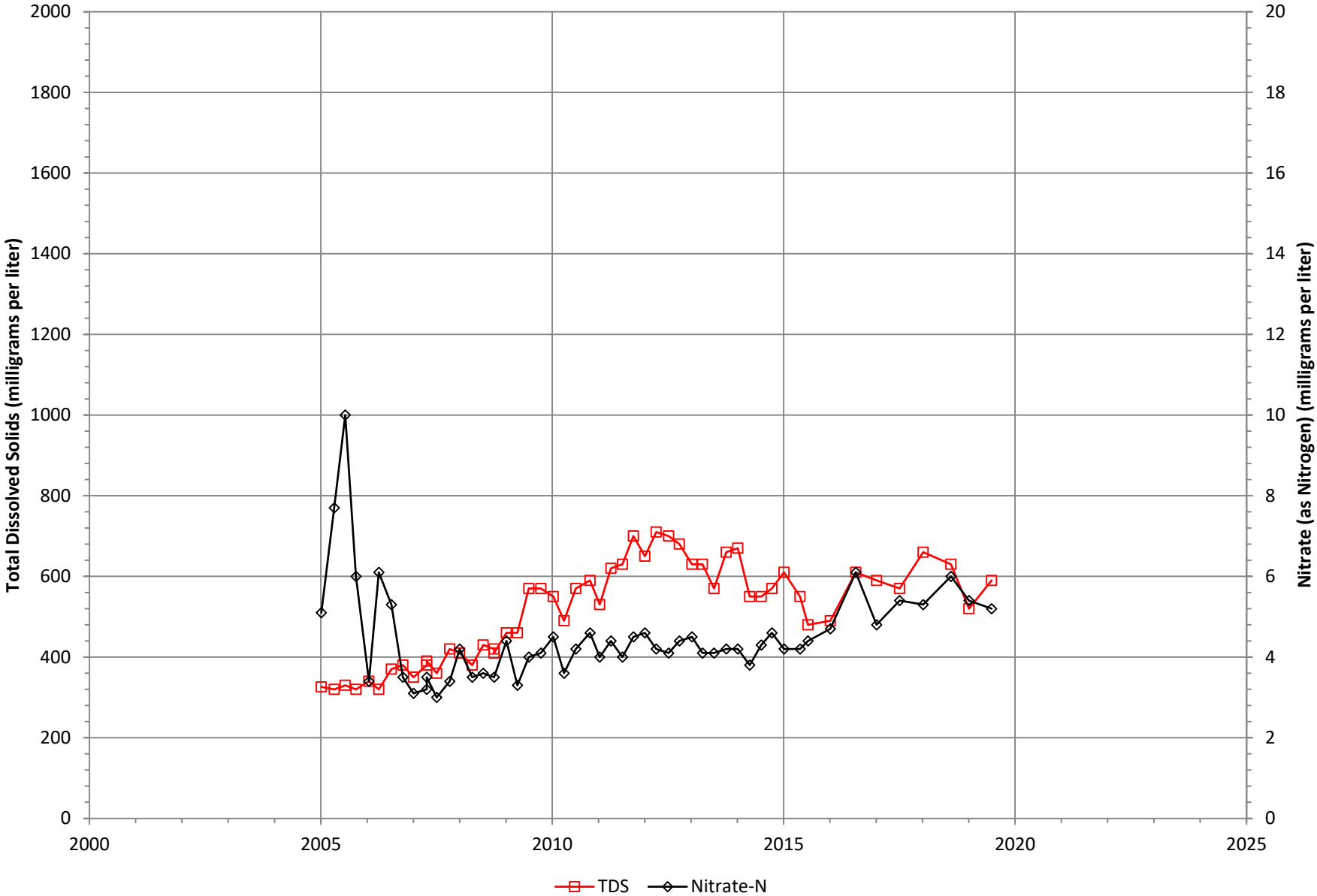
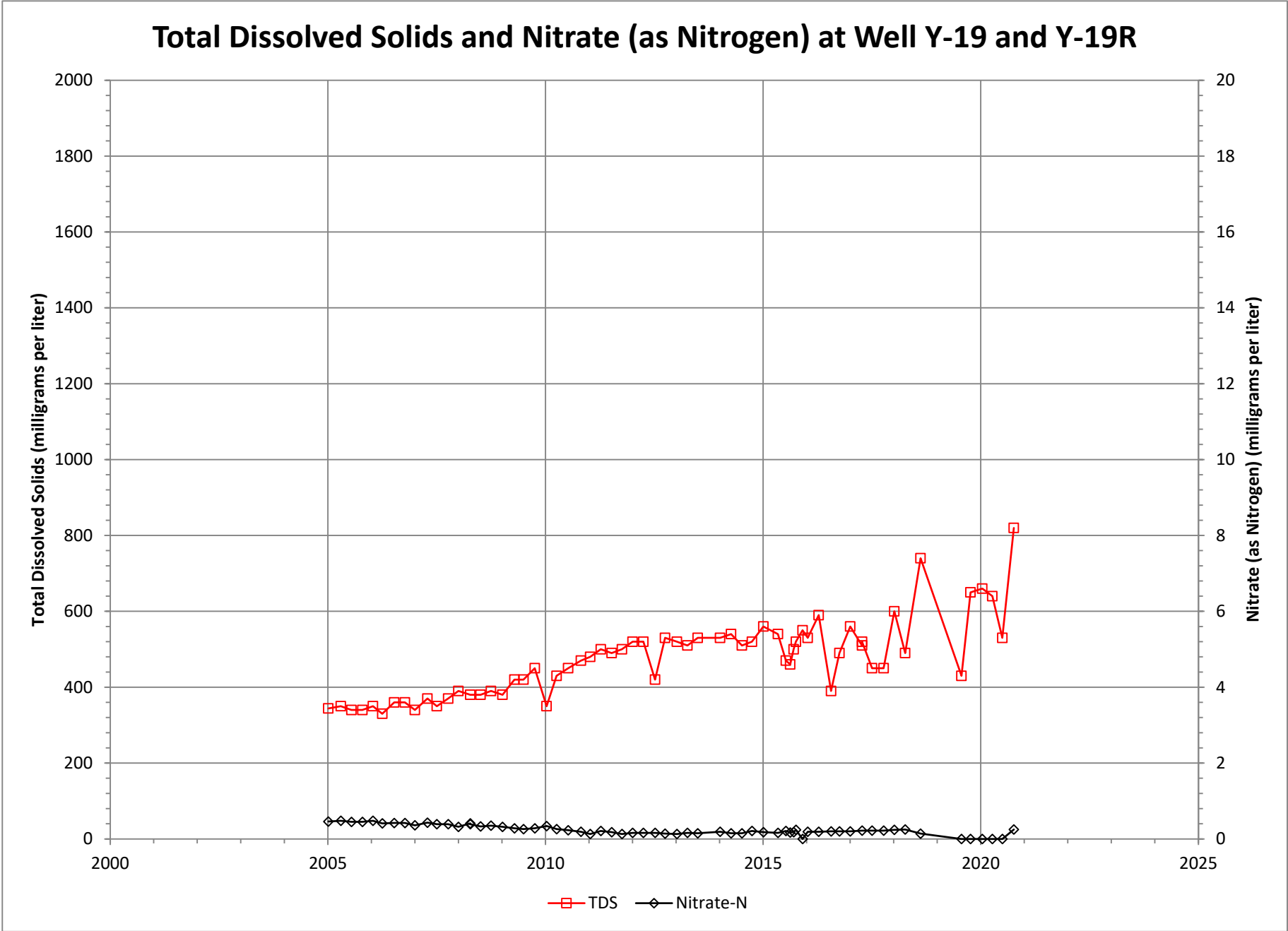


Figure B-2

Total Dissolved Solids and Nitrate (as Nitrogen) at Well Y-18





Total Dissolved Solids and Nitrate (as Nitrogen) at Well Y-21

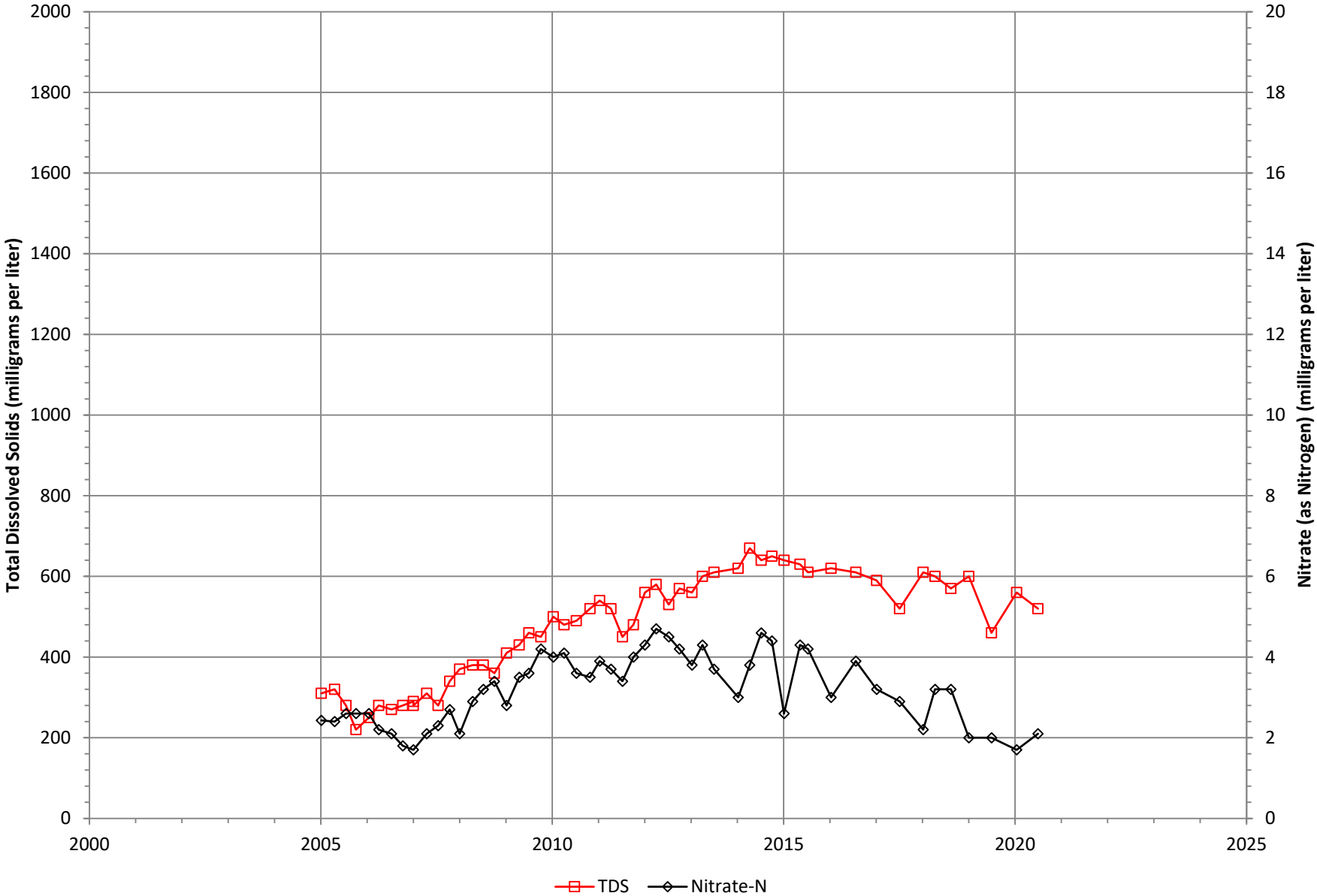
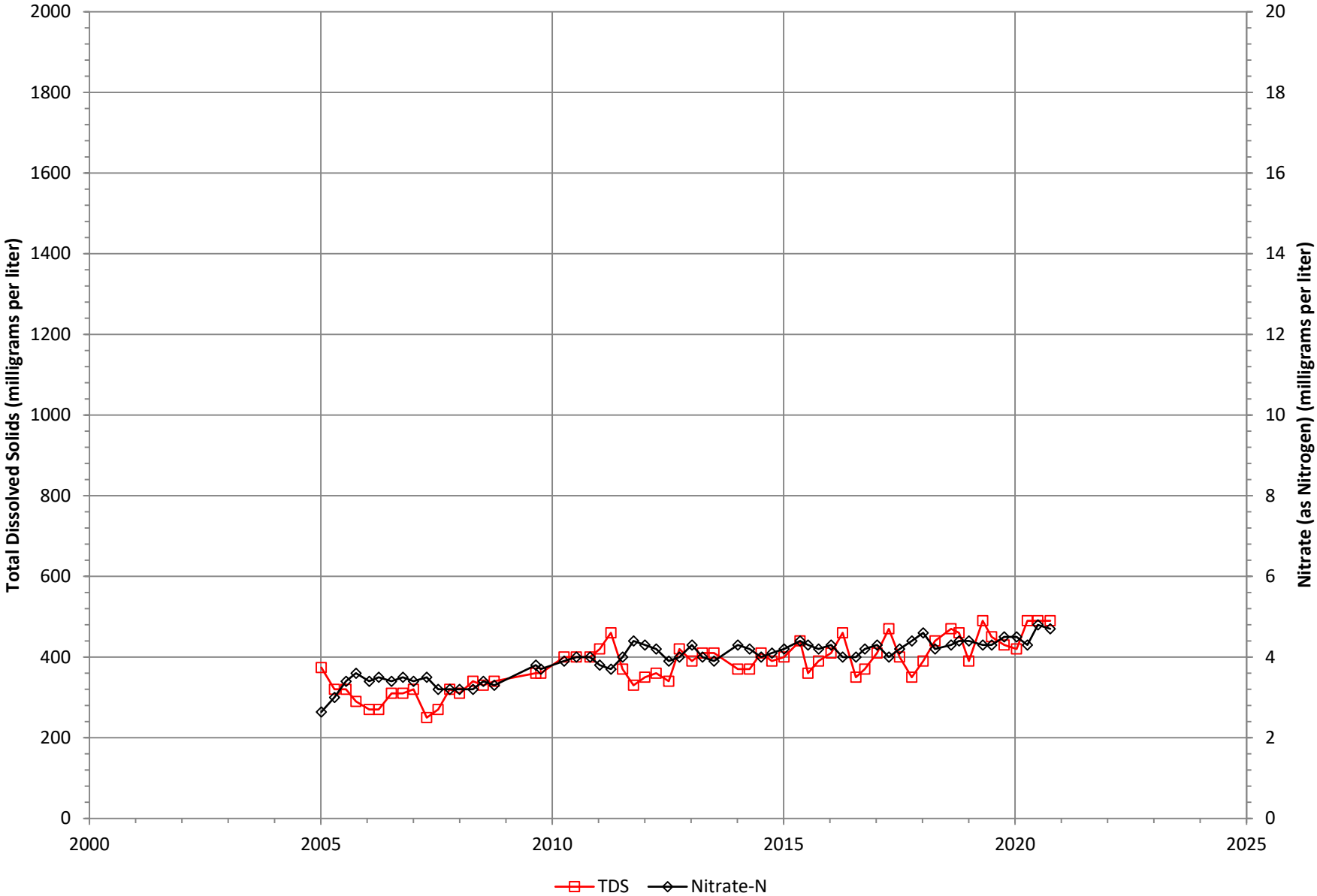
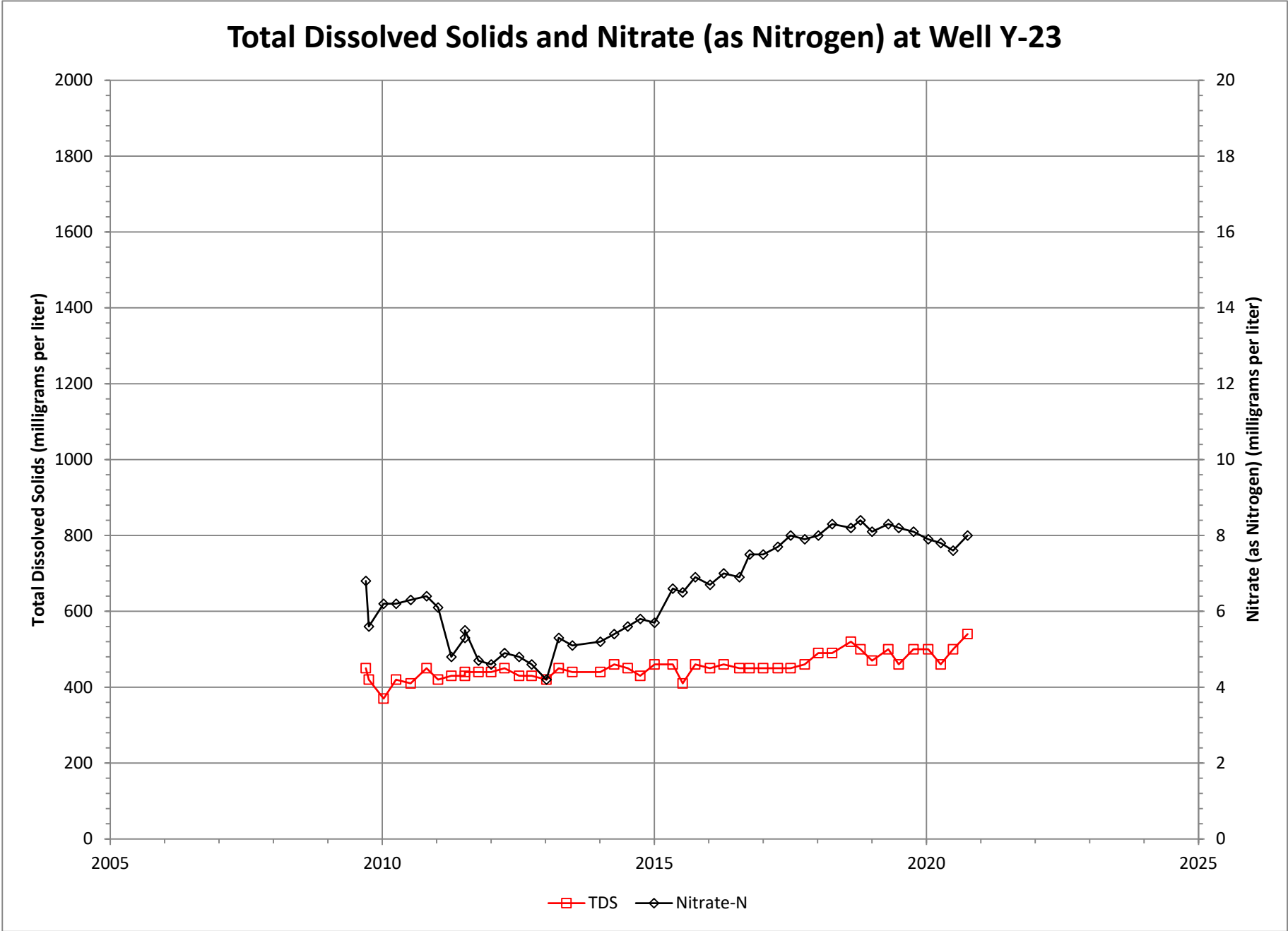


Figure B-24

Total Dissolved Solids and Nitrate (as Nitrogen) at Well Y-22





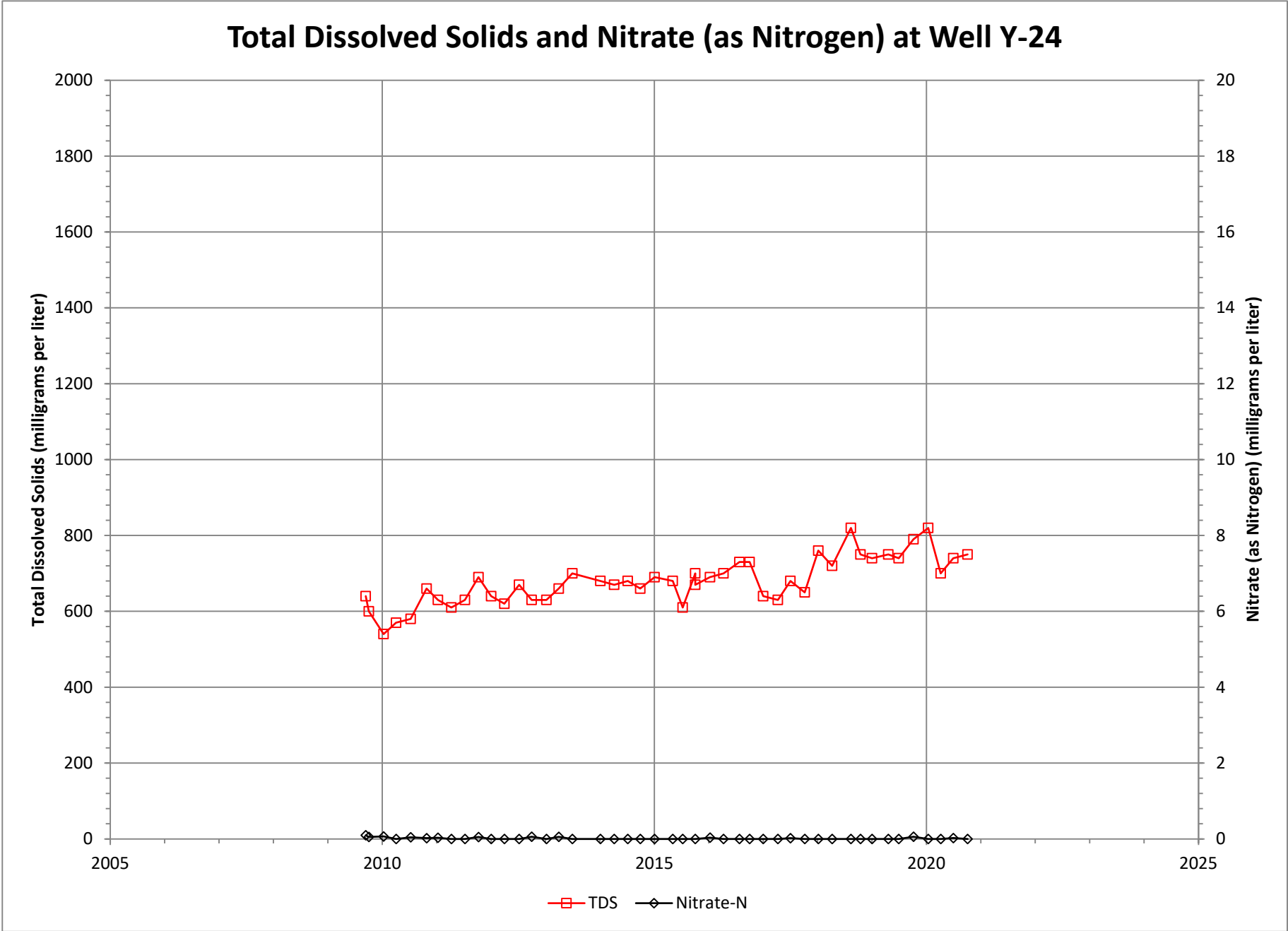


Figure B-21 267

Total Dissolved Solids and Nitrate (as Nitrogen) at Sierra Nursery Well (GL-3)

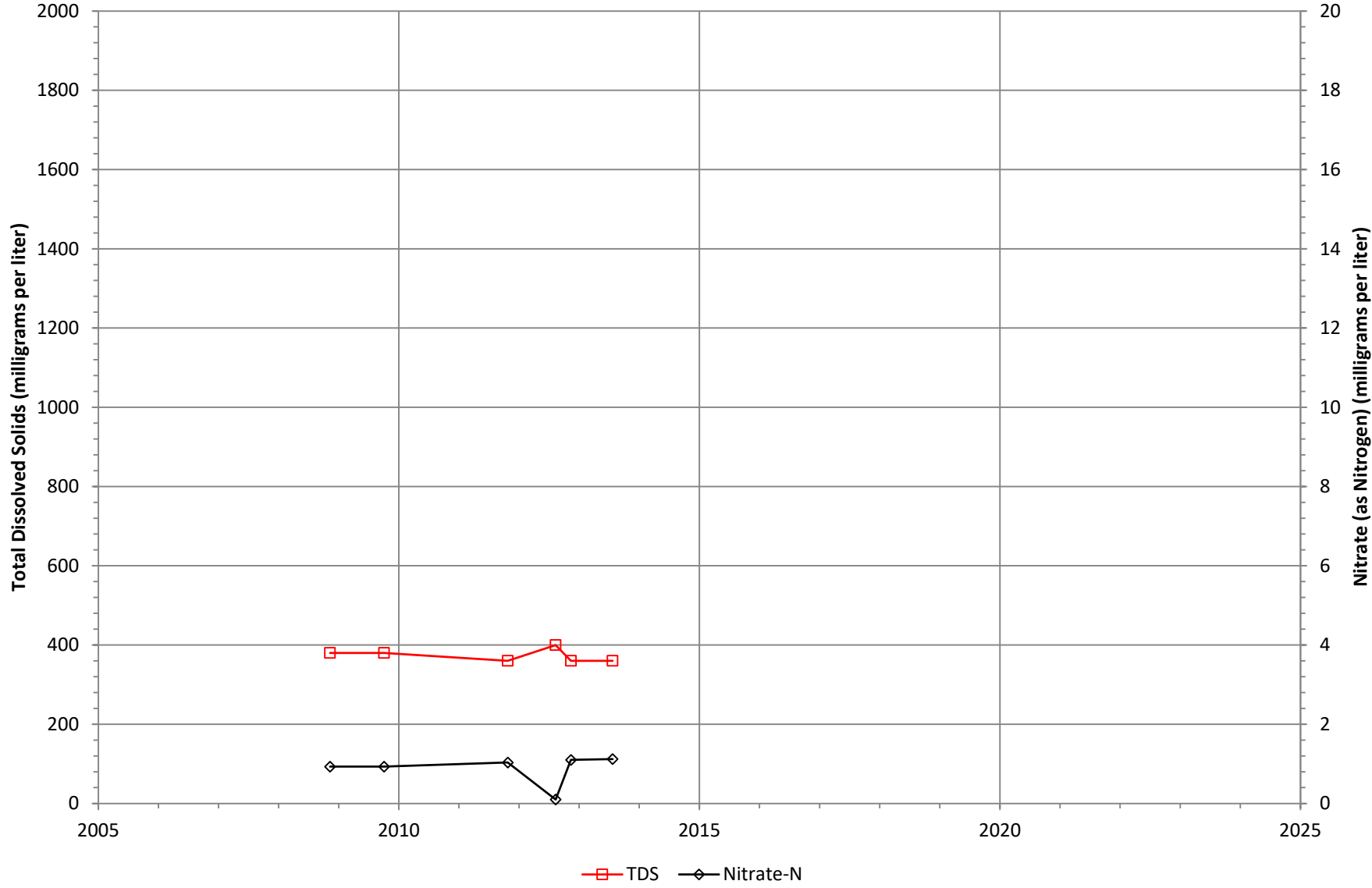
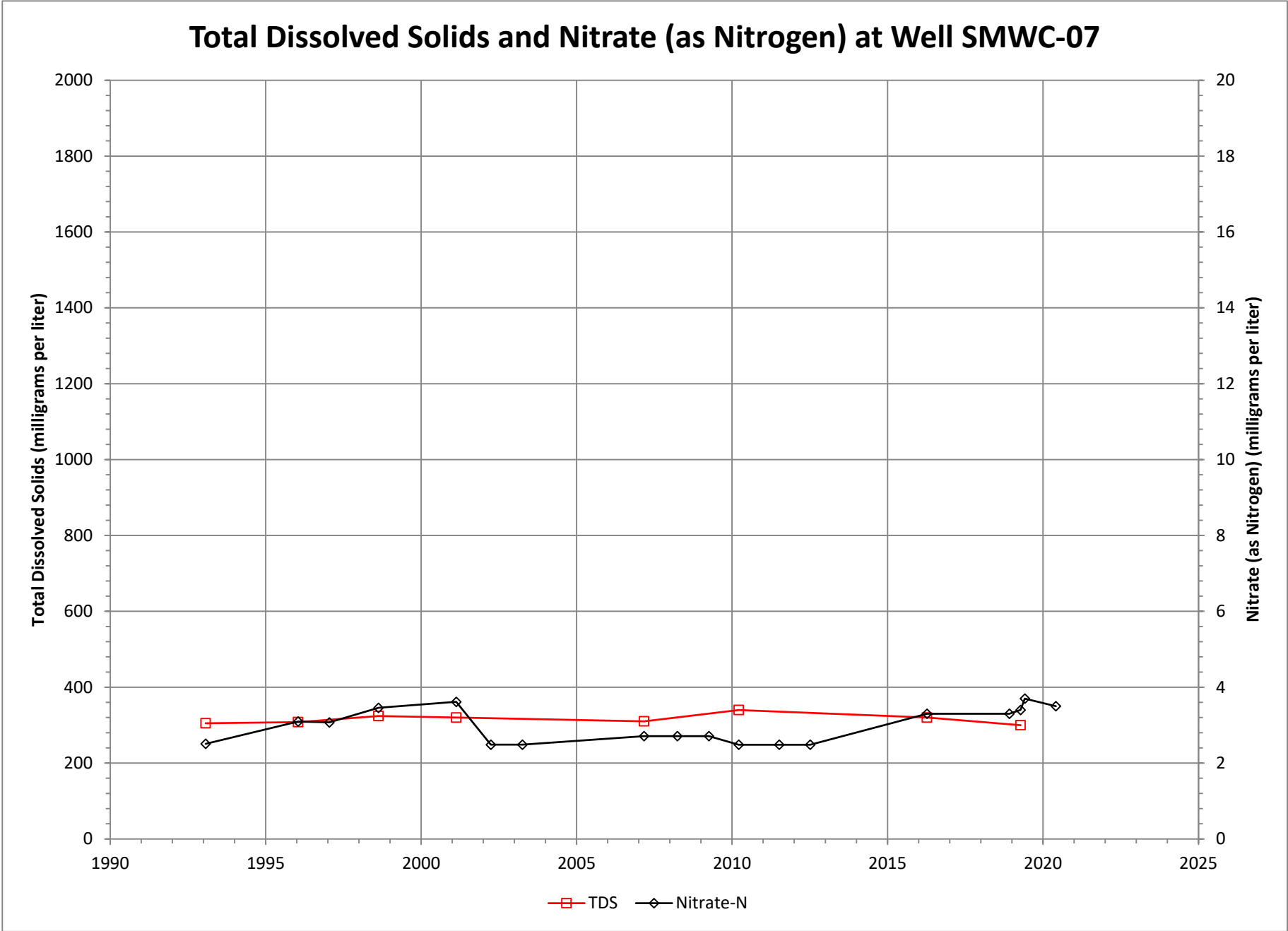
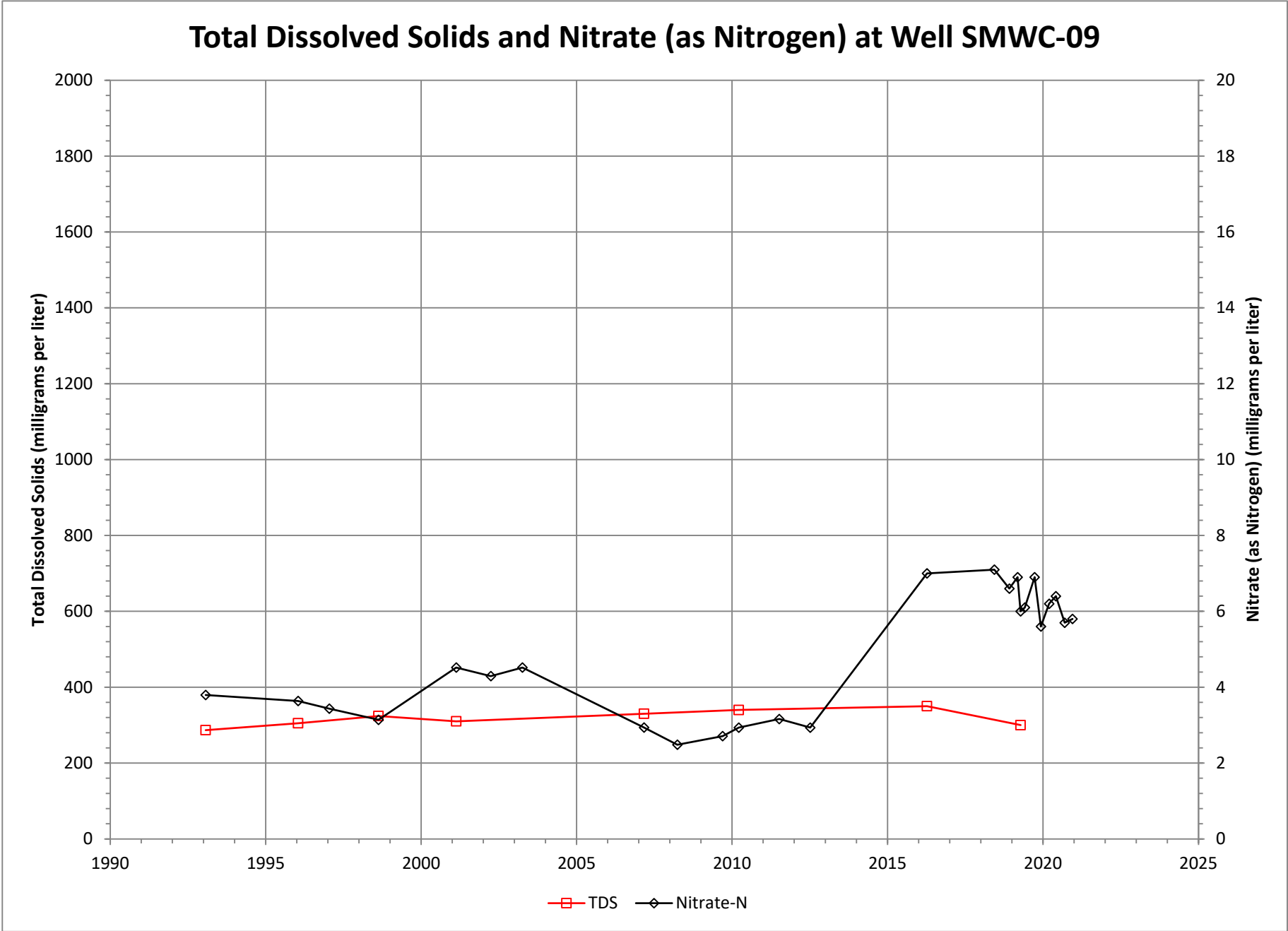
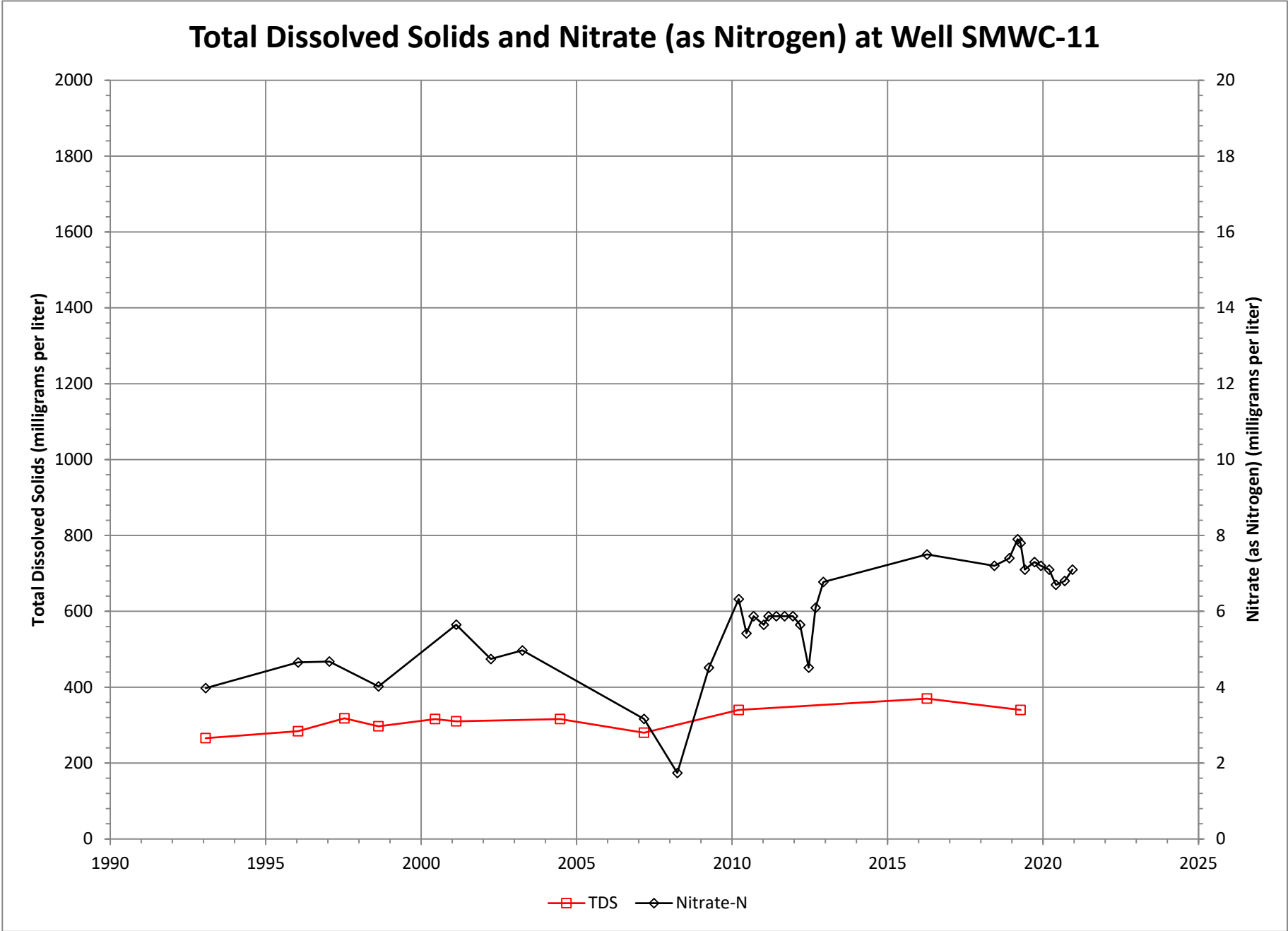
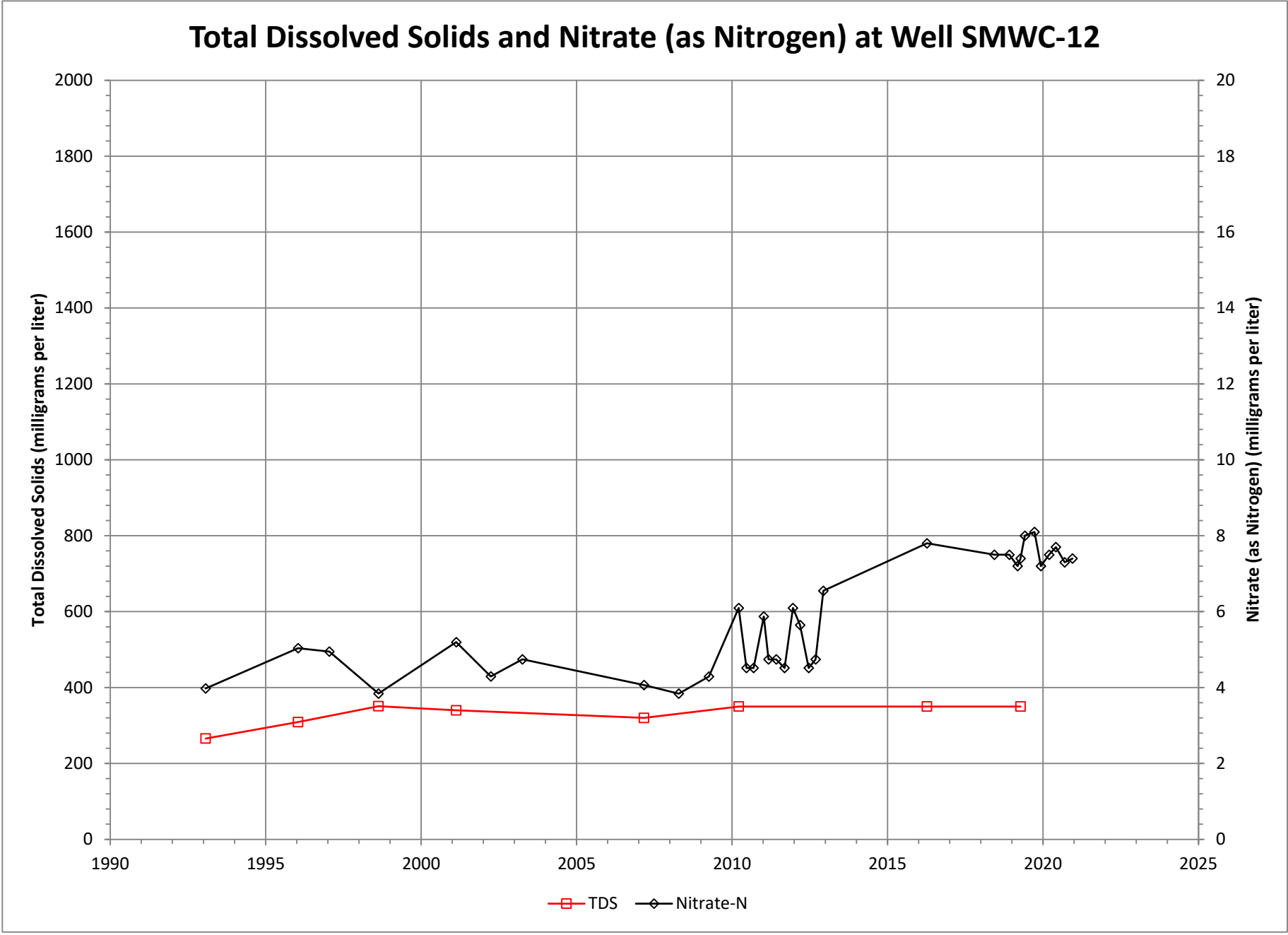


Figure B-28









Total Dissolved Solids and Nitrate (as Nitrogen) at Well SMWC-16

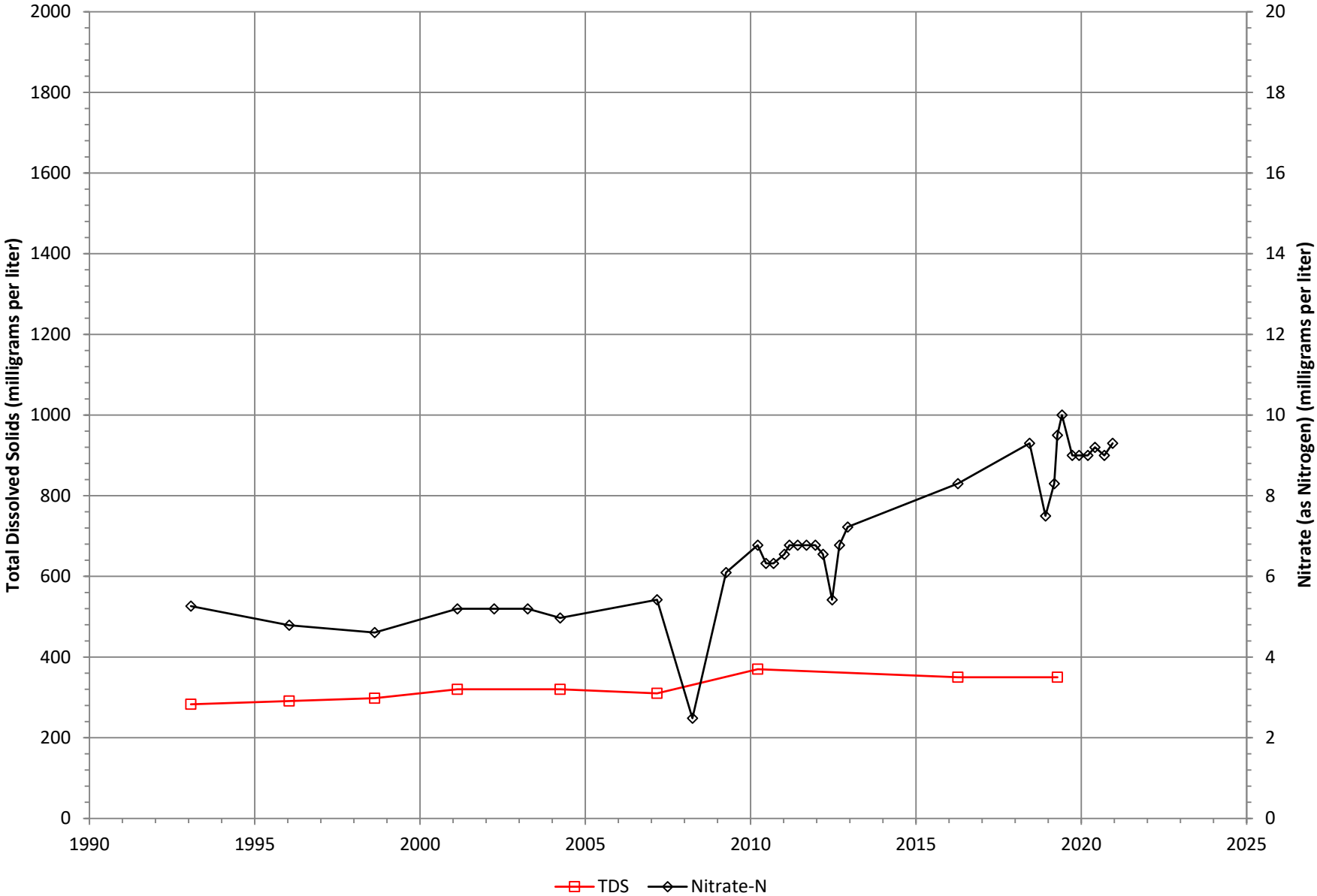
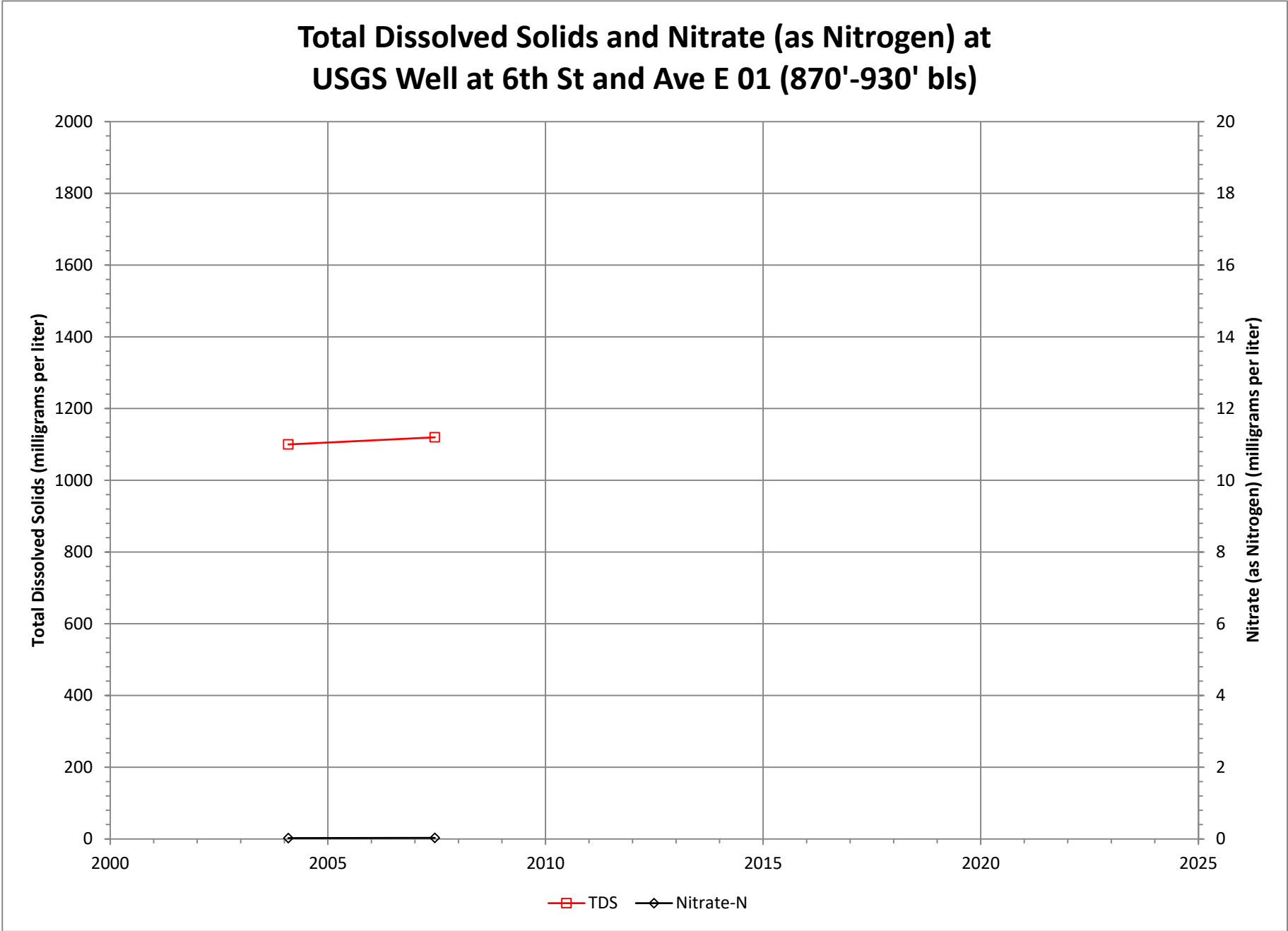
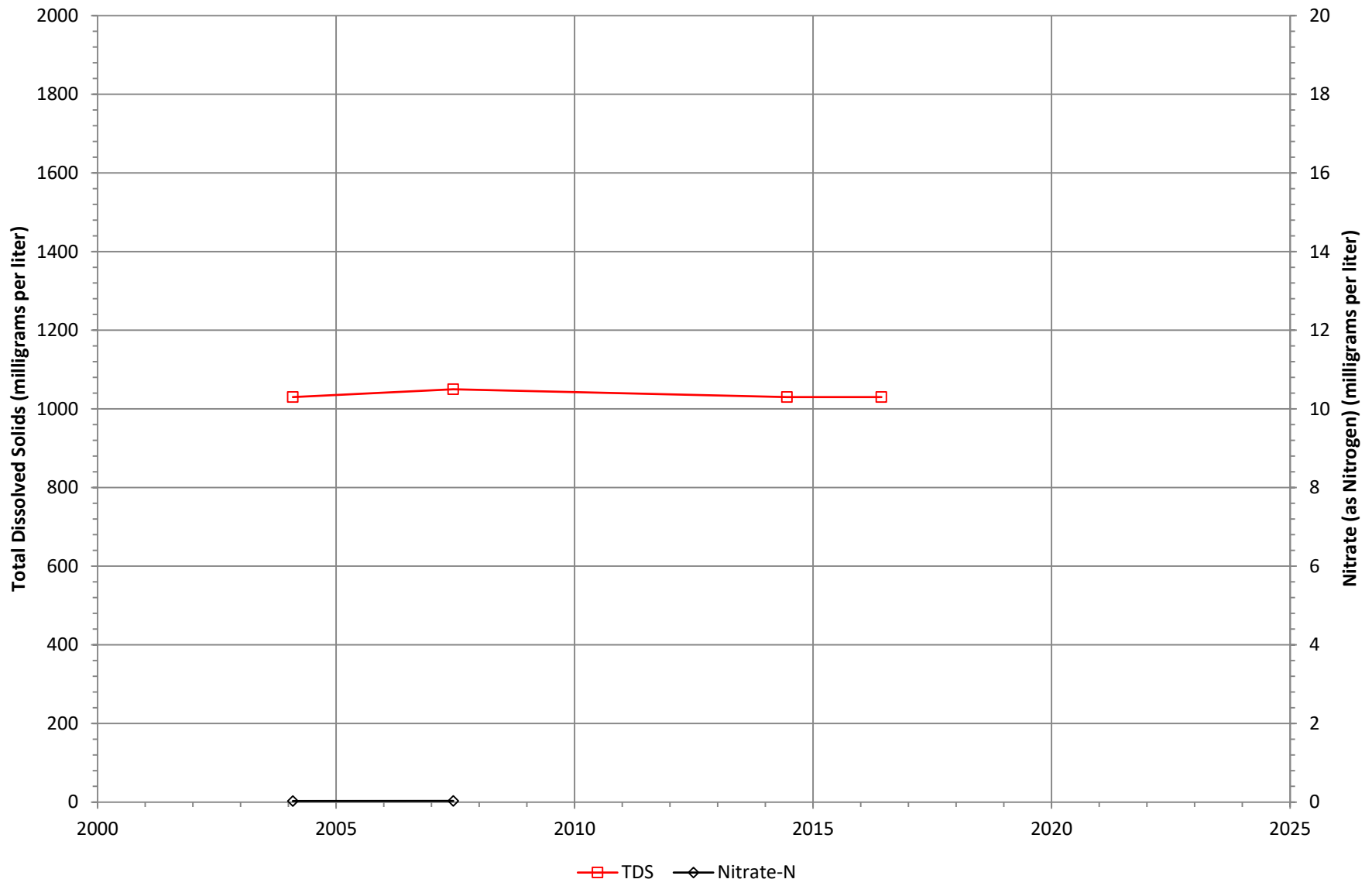


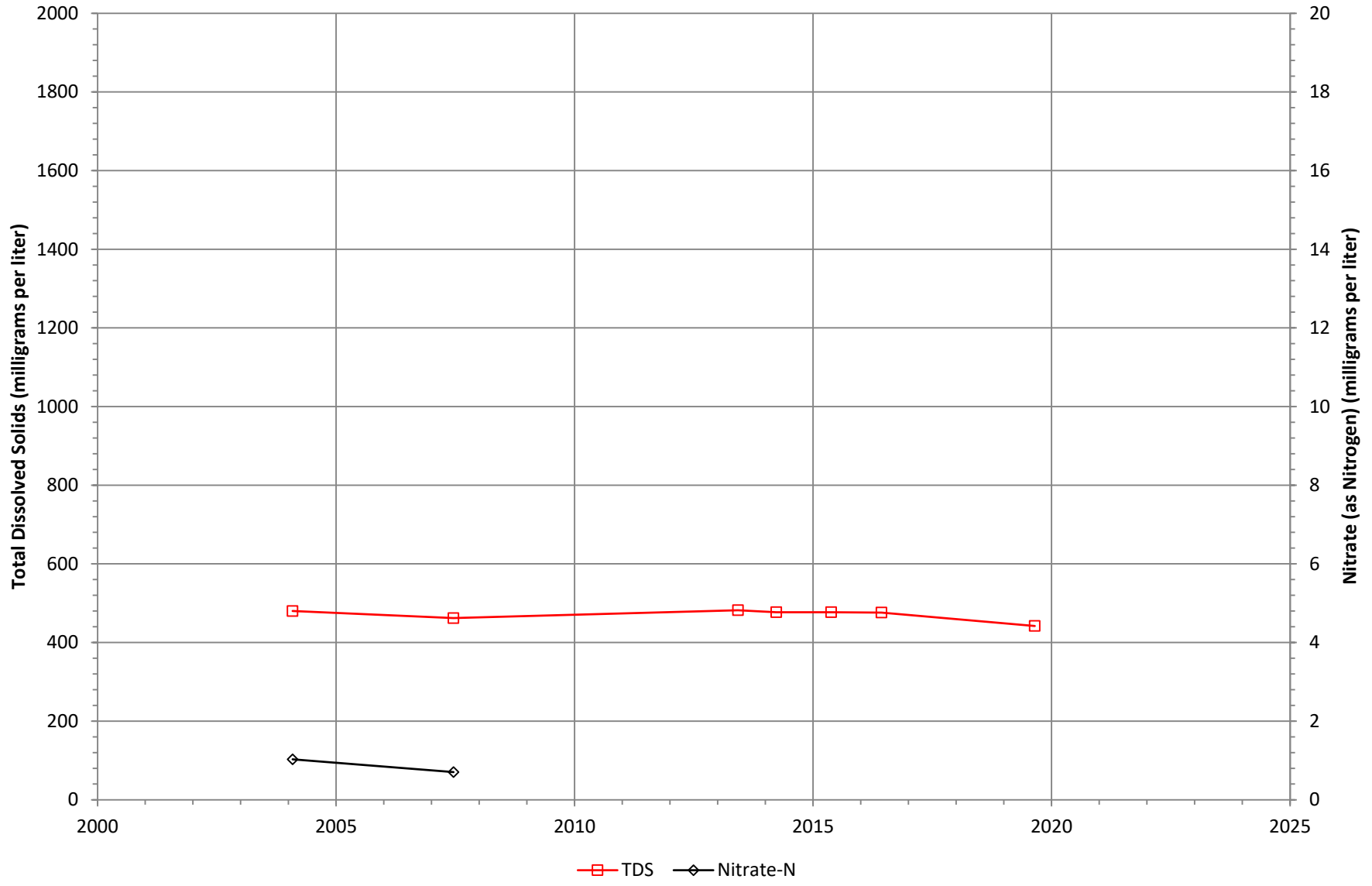
Figure B-31



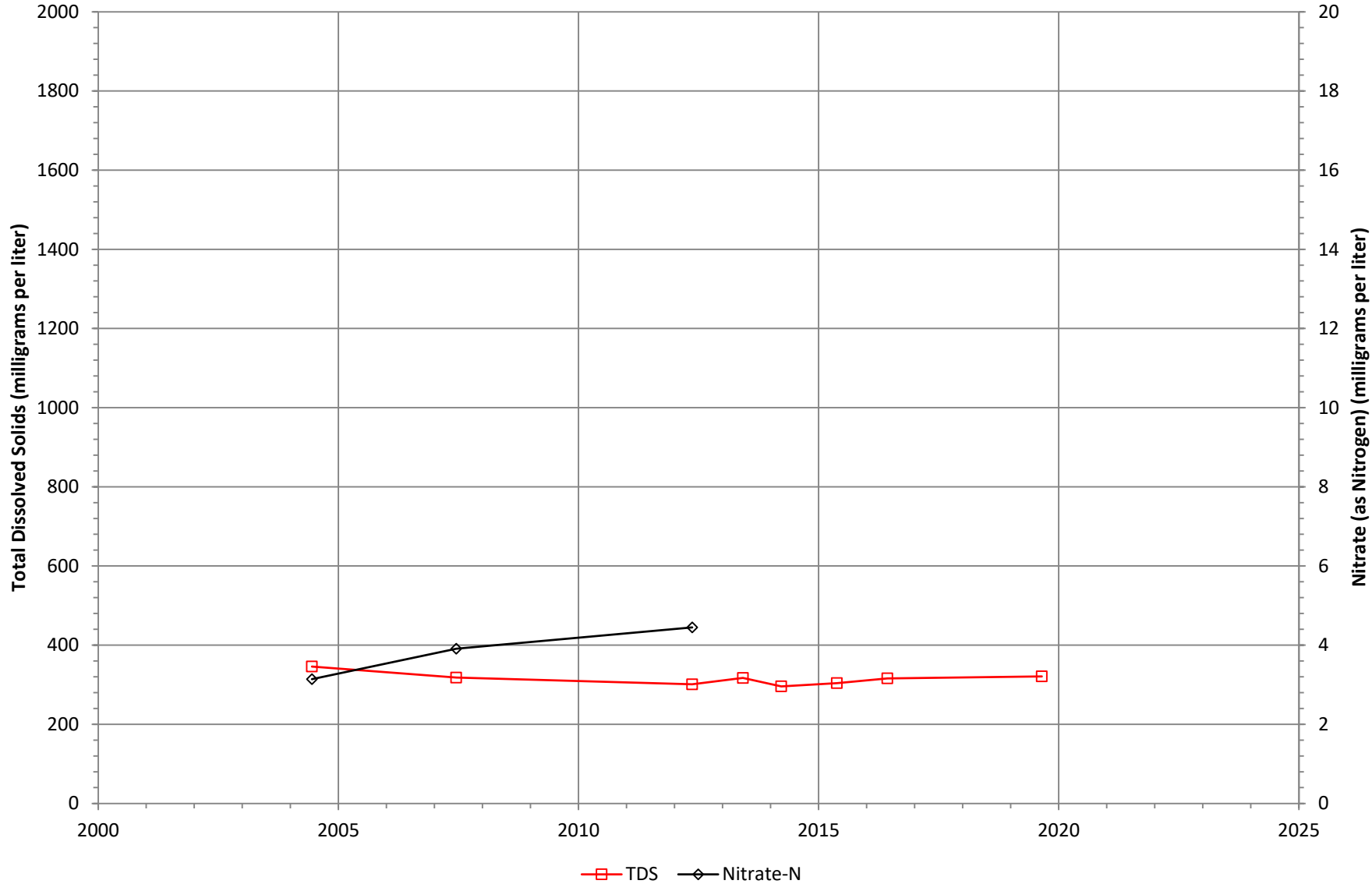
Total Dissolved Solids and Nitrate (as Nitrogen) at USGS Well at 6th St and Ave E 02 (730'-750' bls)



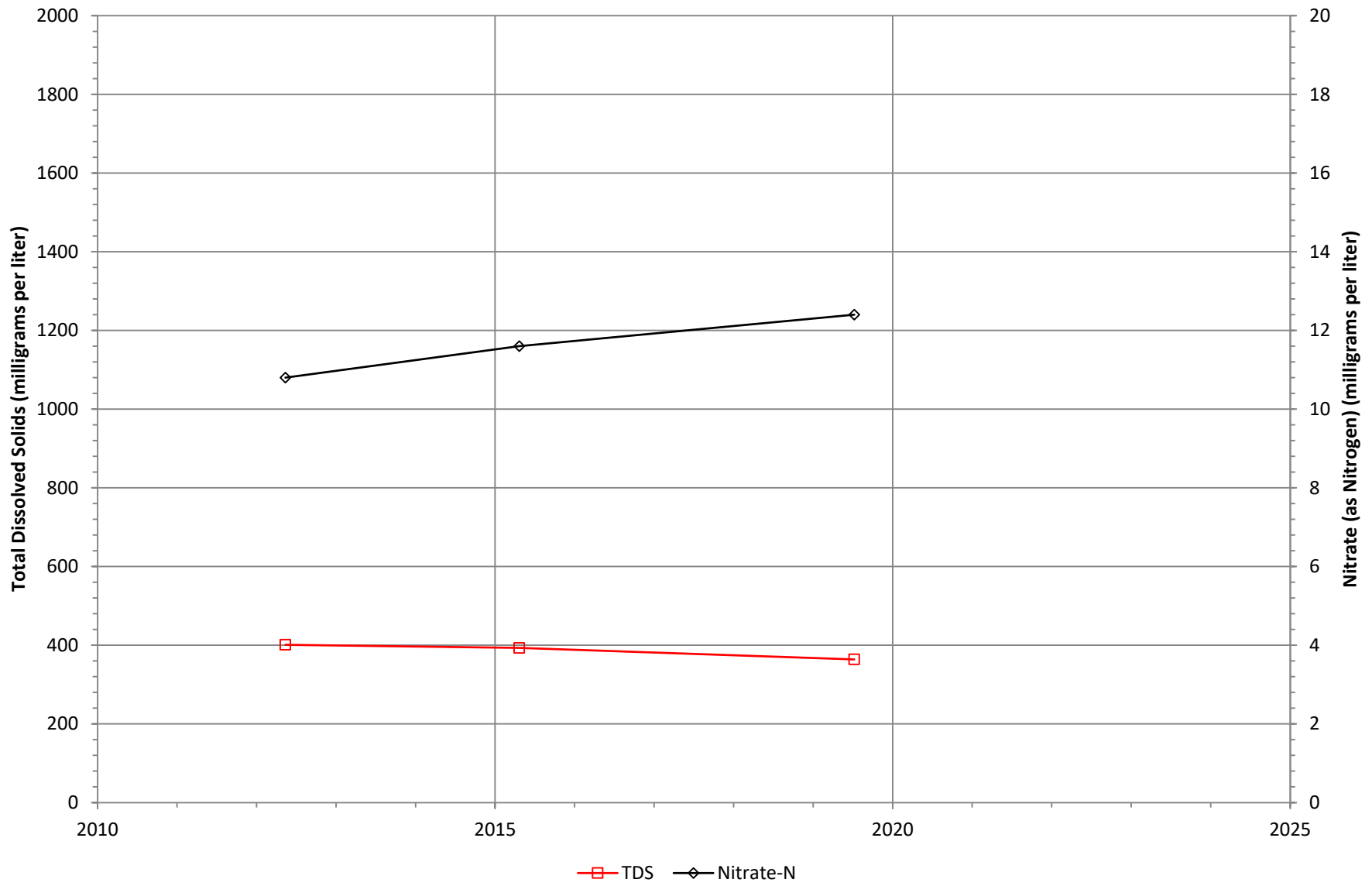
Total Dissolved Solids and Nitrate (as Nitrogen) at USGS Well at 6th St and Ave E 03 (500'-540' bls)

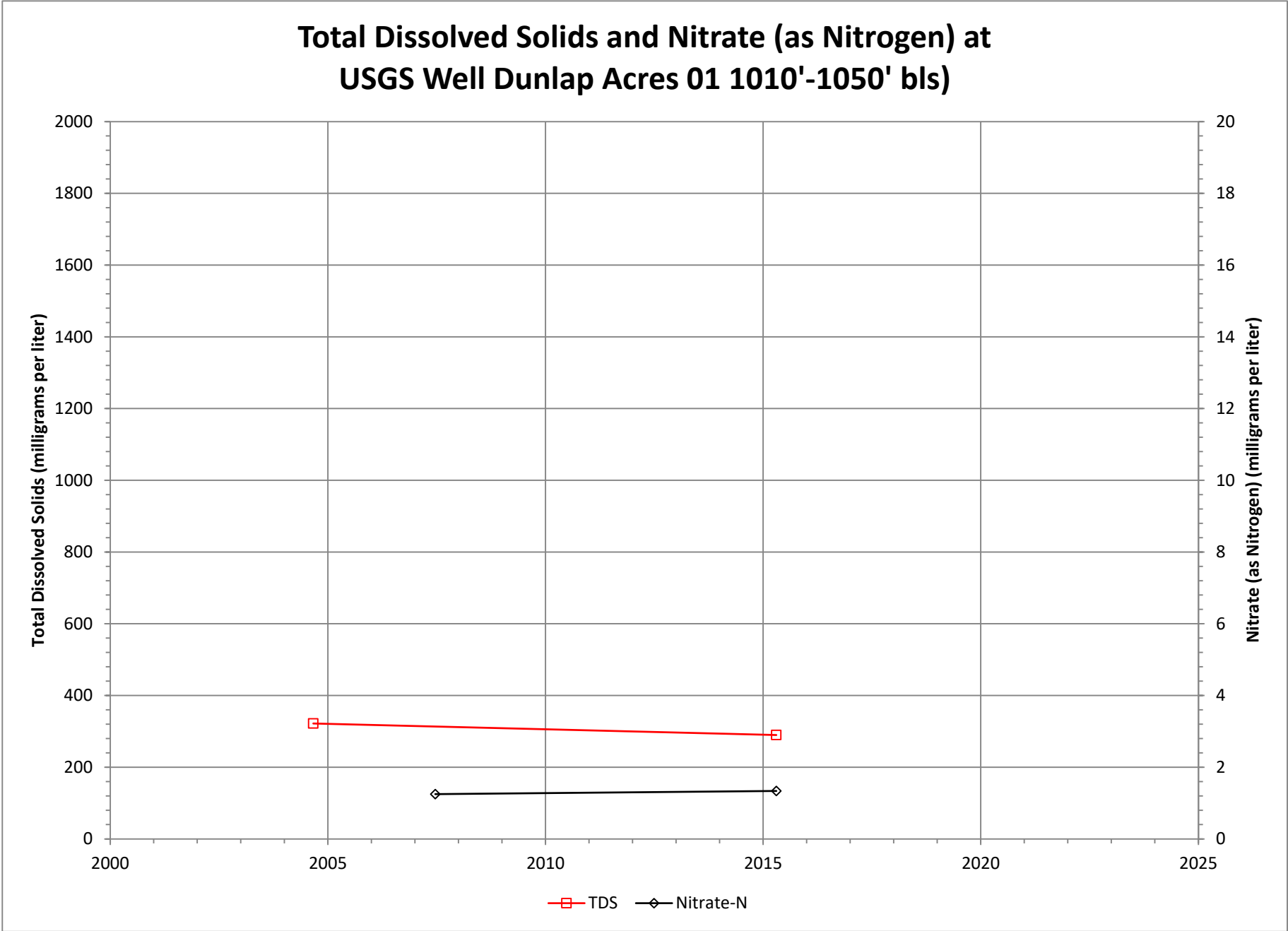


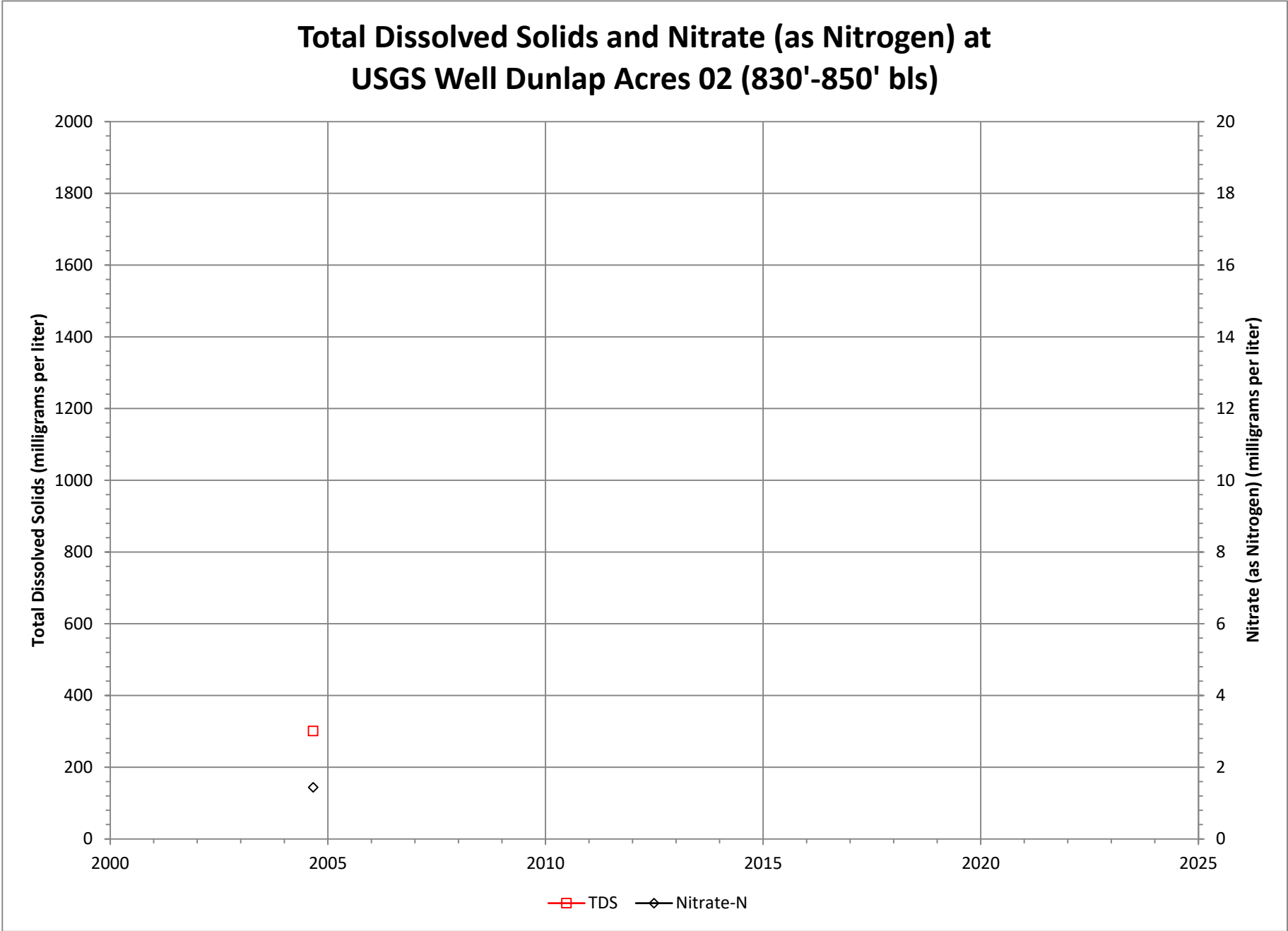
Total Dissolved Solids and Nitrate (as Nitrogen) at USGS Well at 6th St and Ave E 04 (380'-400' bls)

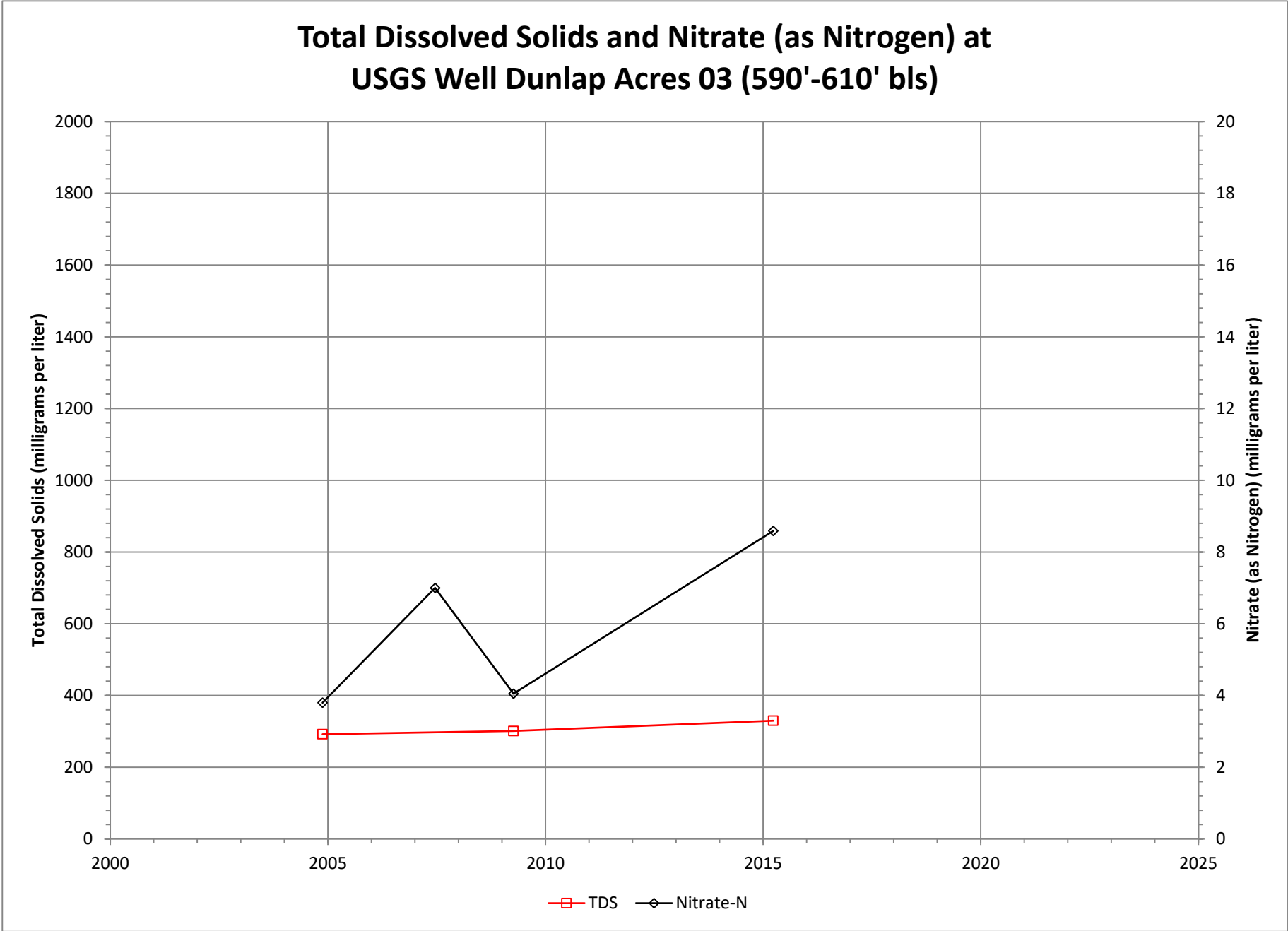


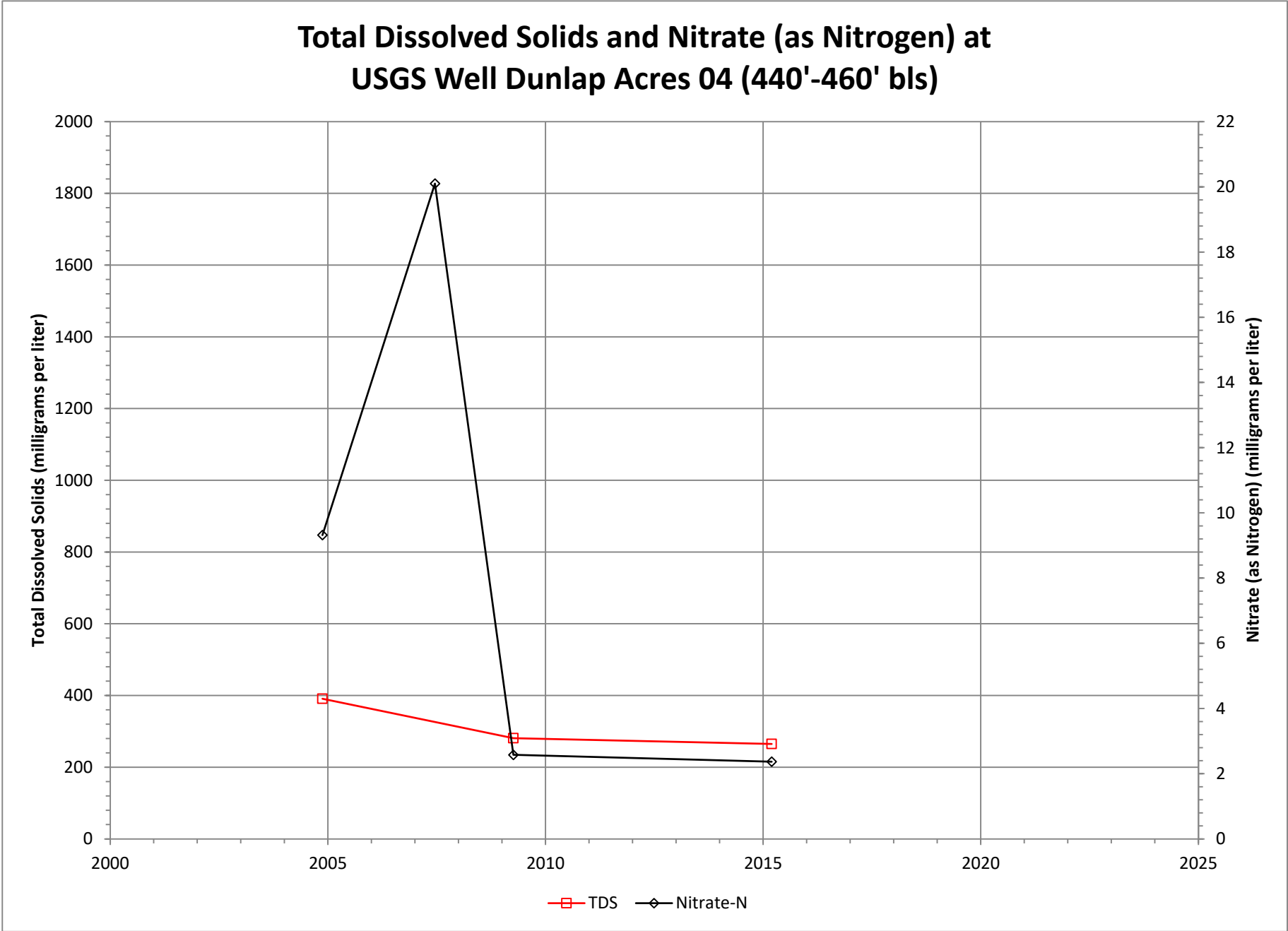
Total Dissolved Solids and Nitrate (as Nitrogen) at USGS Well at 6th St and Ave E 05 (290'-310' bls)

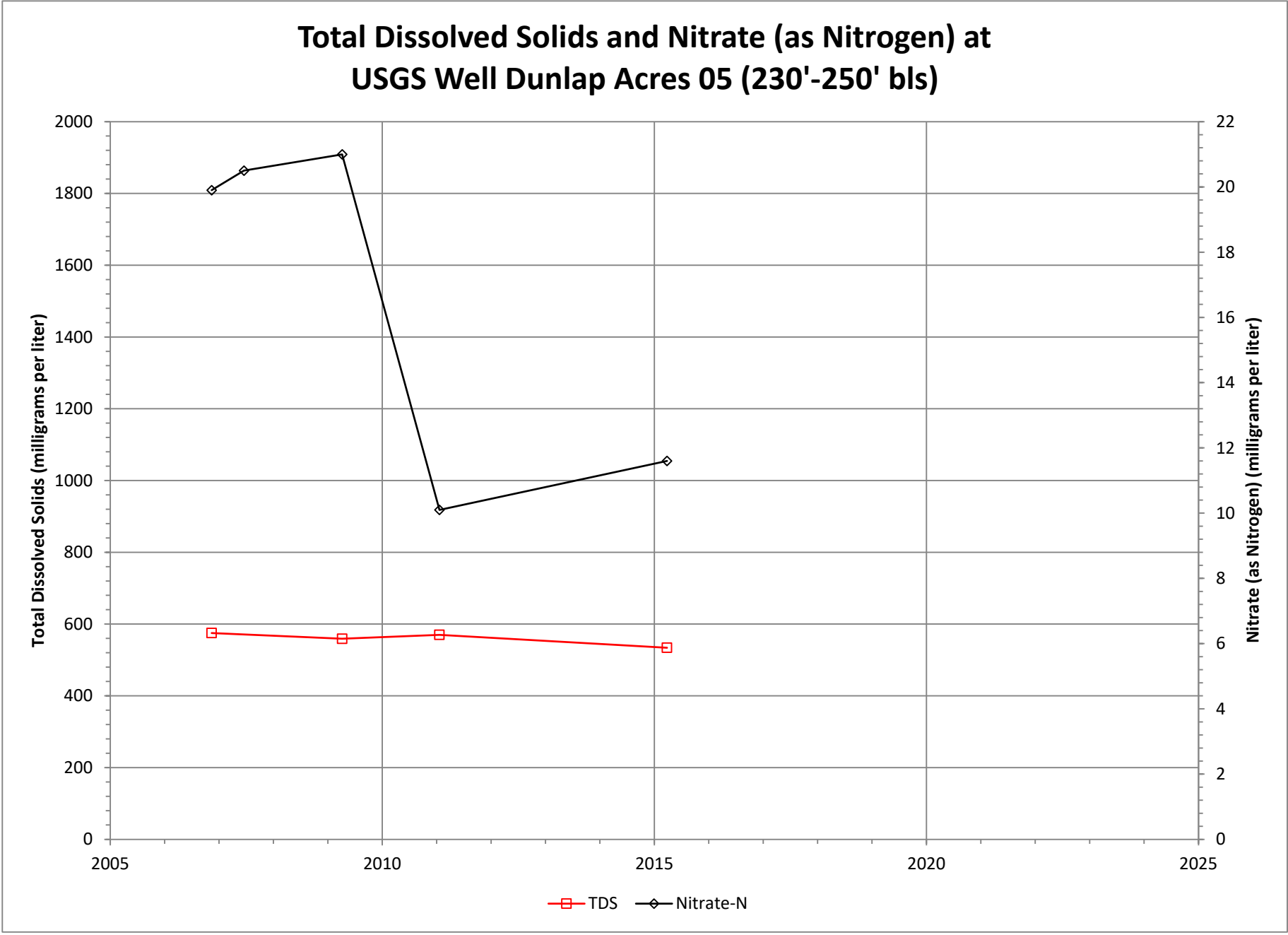




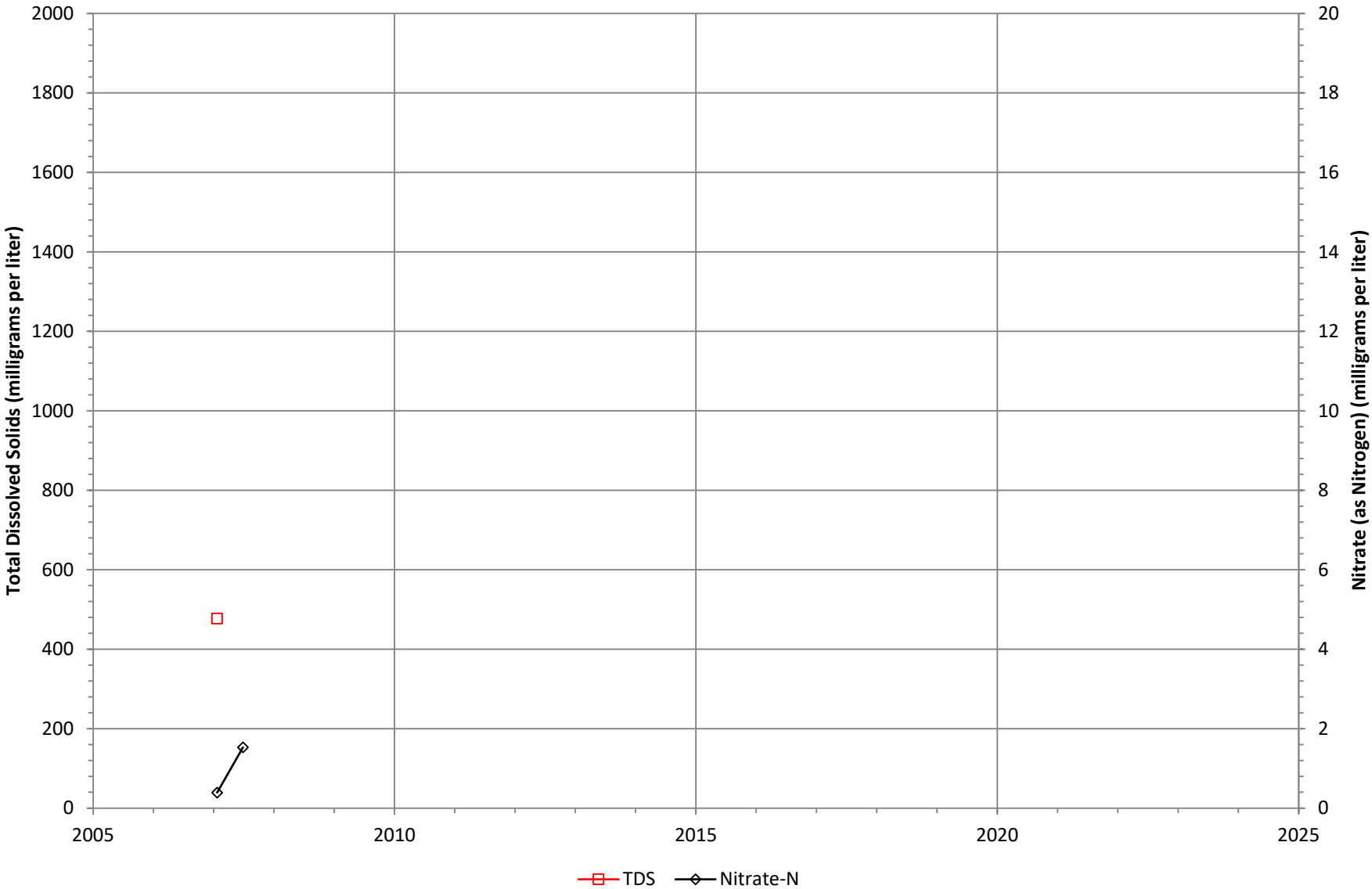




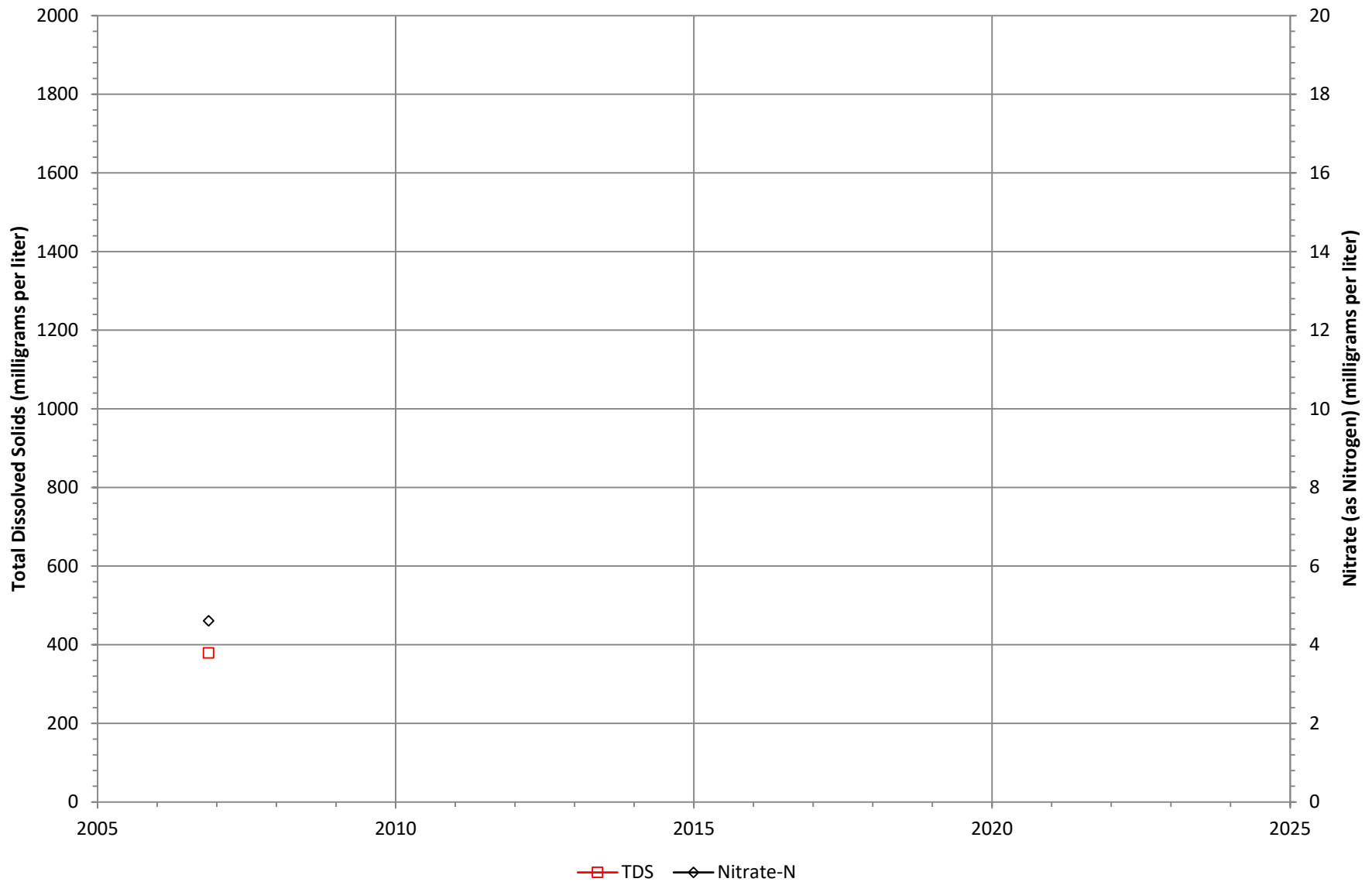




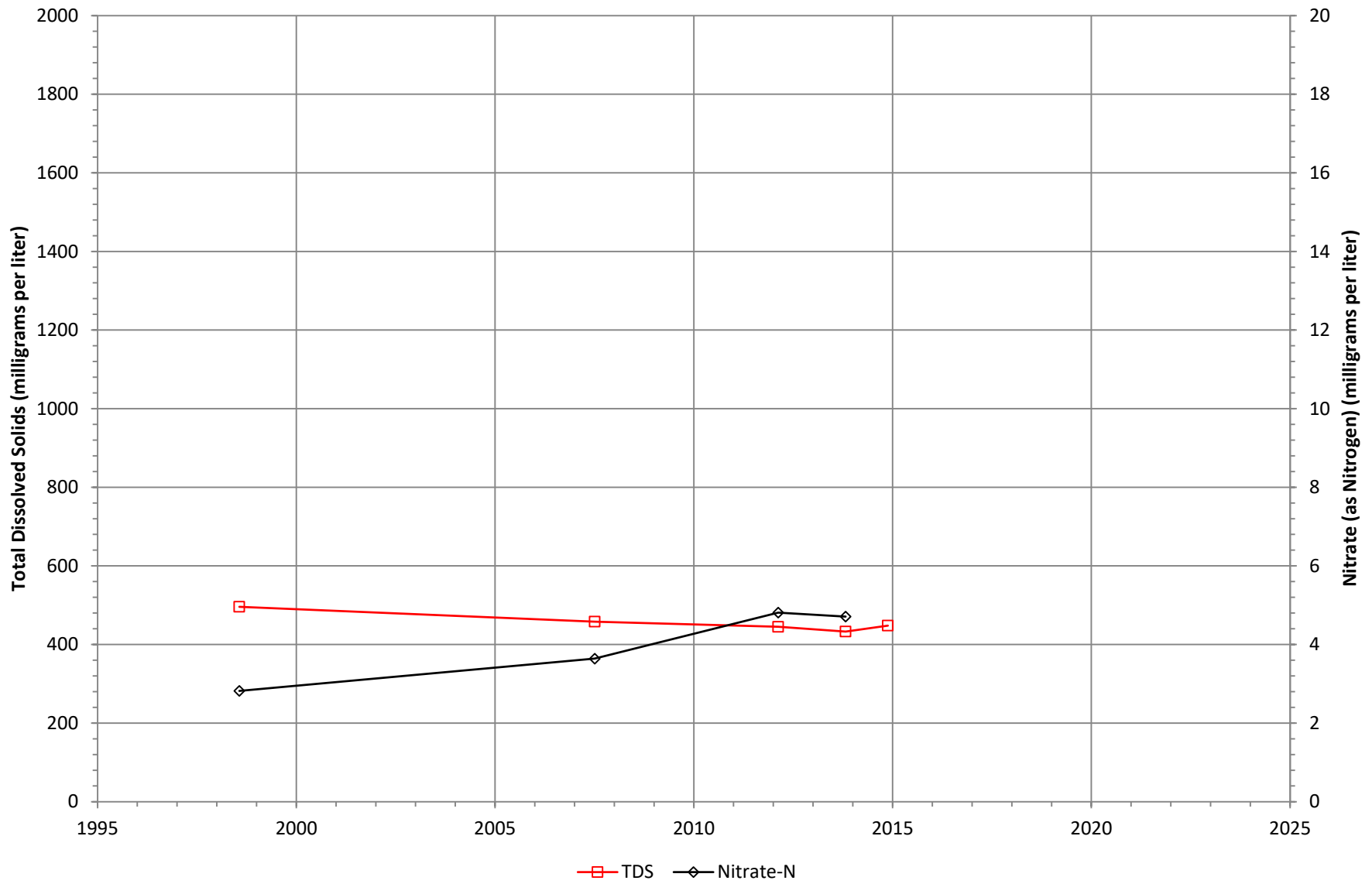
Total Dissolved Solids and Nitrate (as Nitrogen) at USGS Well Equestrian Park on Ave G 01 (830'-850' bls)



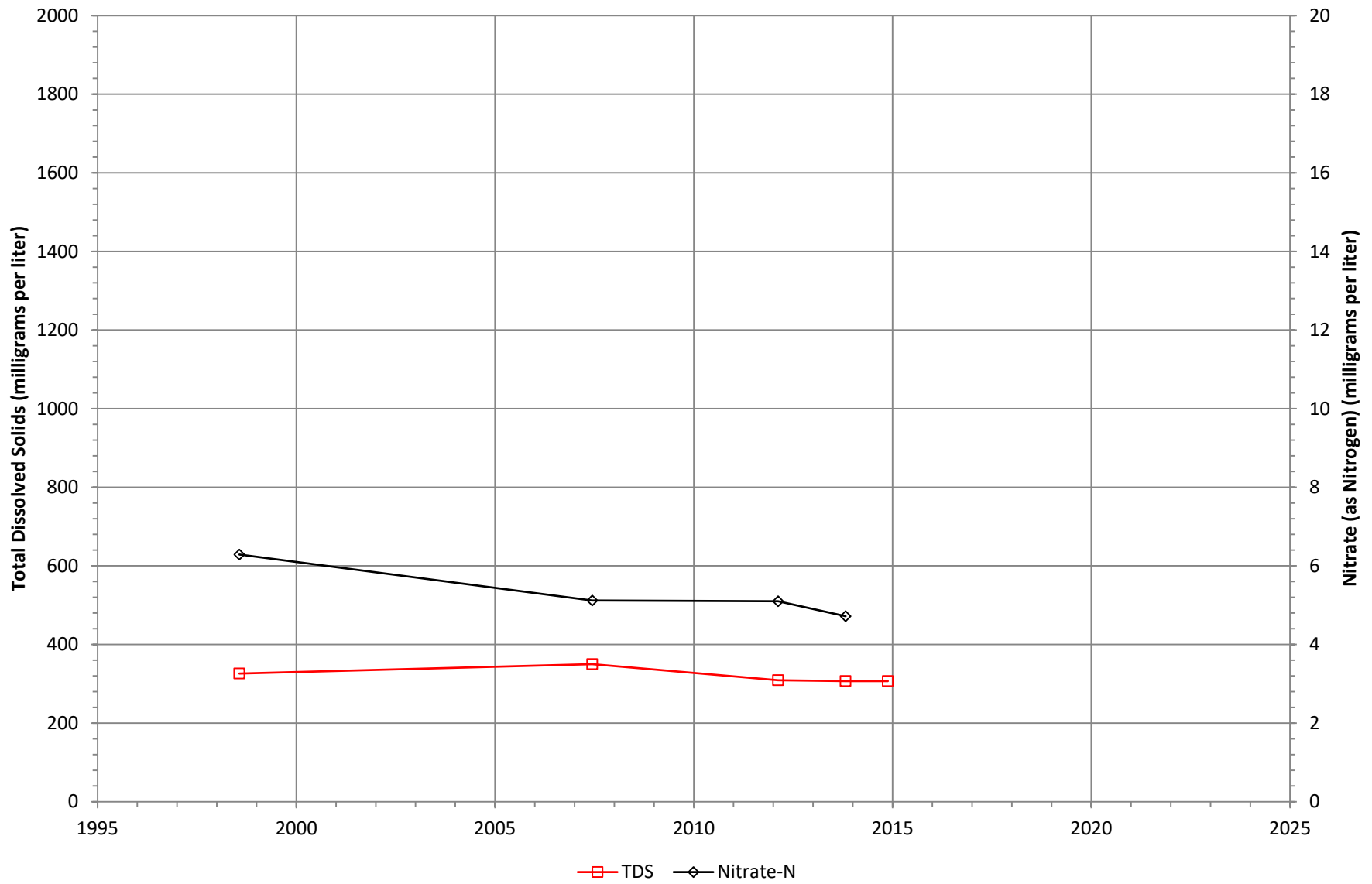
Total Dissolved Solids and Nitrate (as Nitrogen) at USGS Well Equestrian Park on Ave G 02 (635'-655' bls)

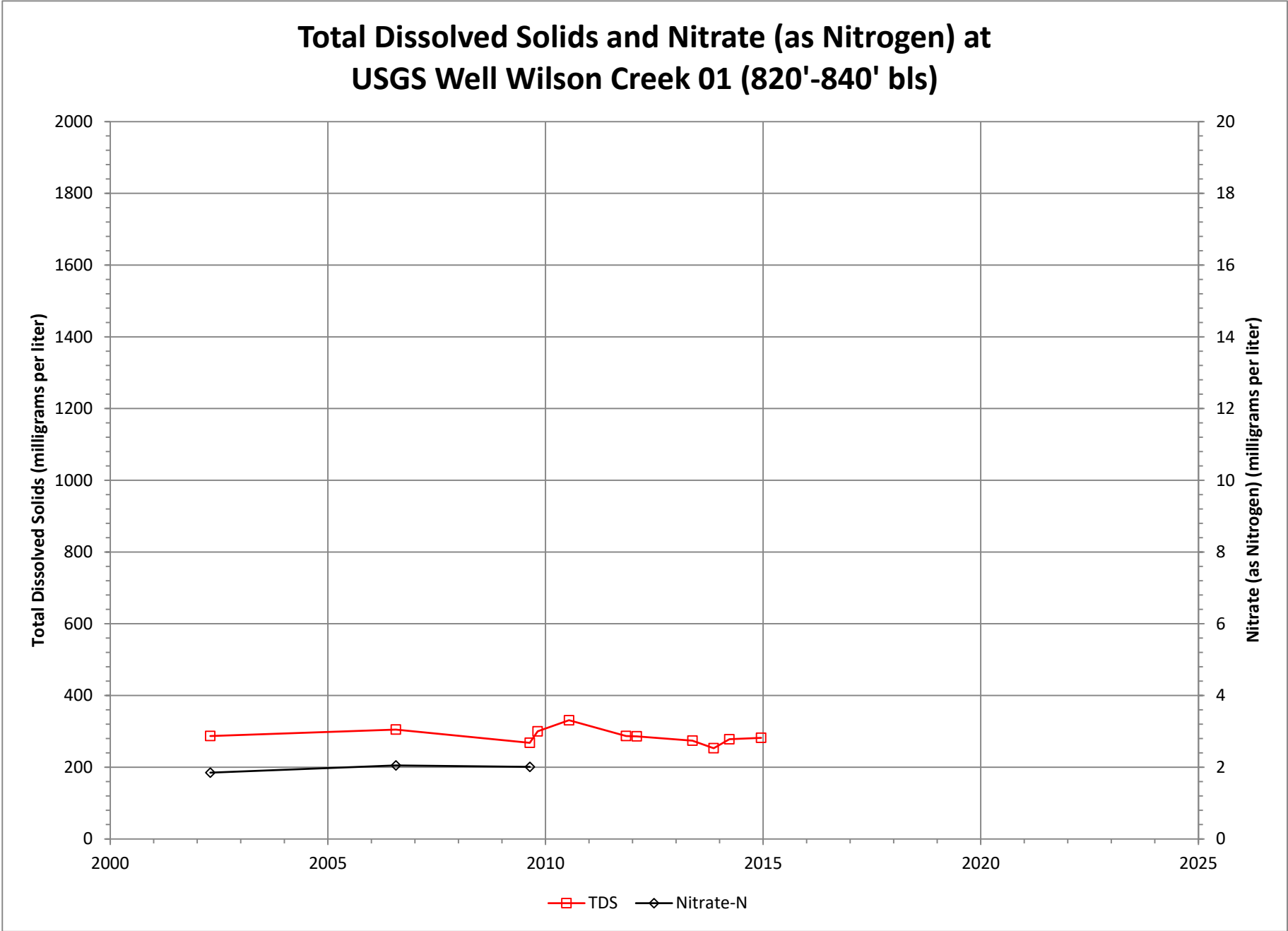


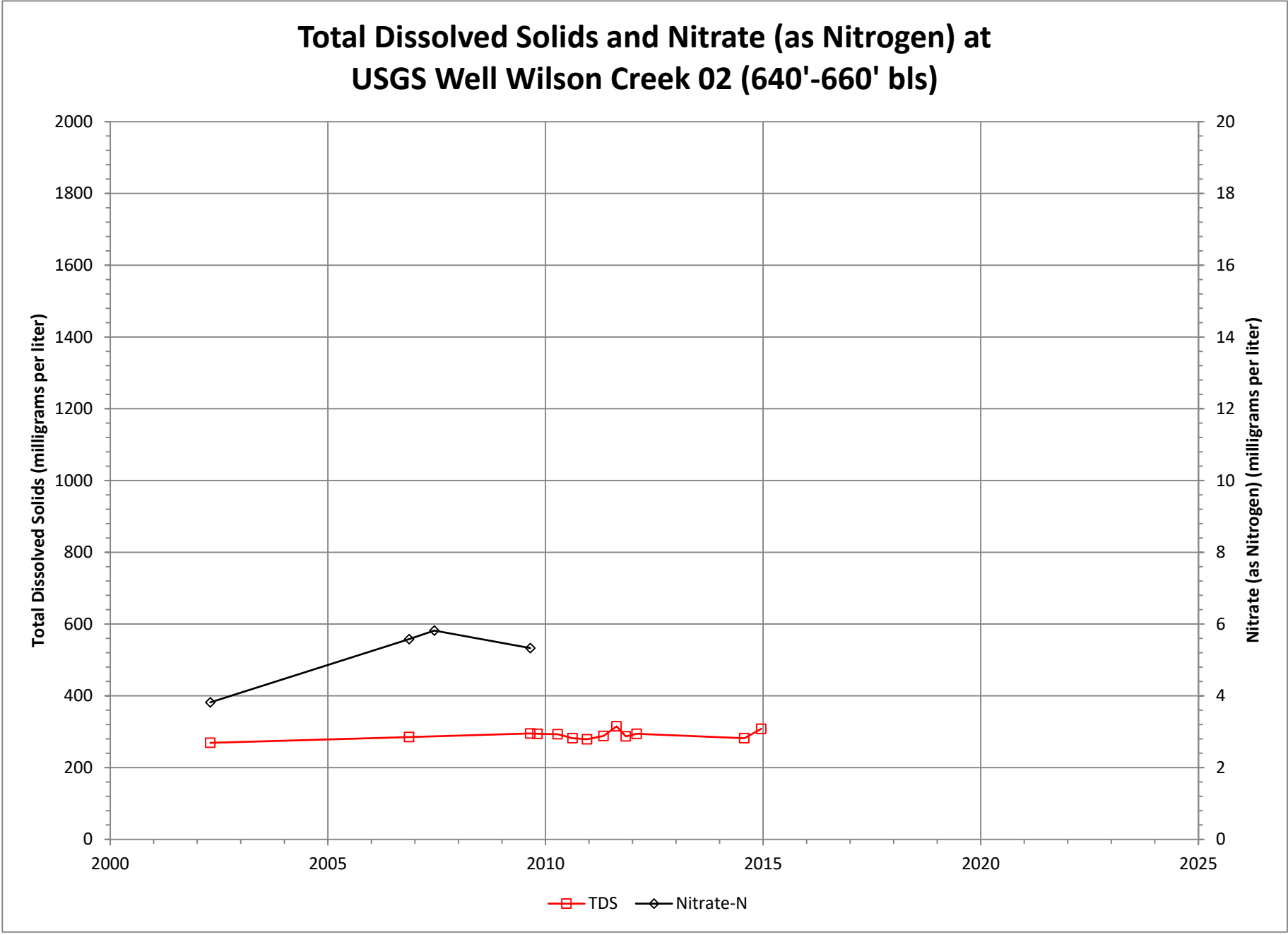
Total Dissolved Solids and Nitrate (as Nitrogen) at USGS Well Equestrian Park on Ave G 03 (510'-530' bls)

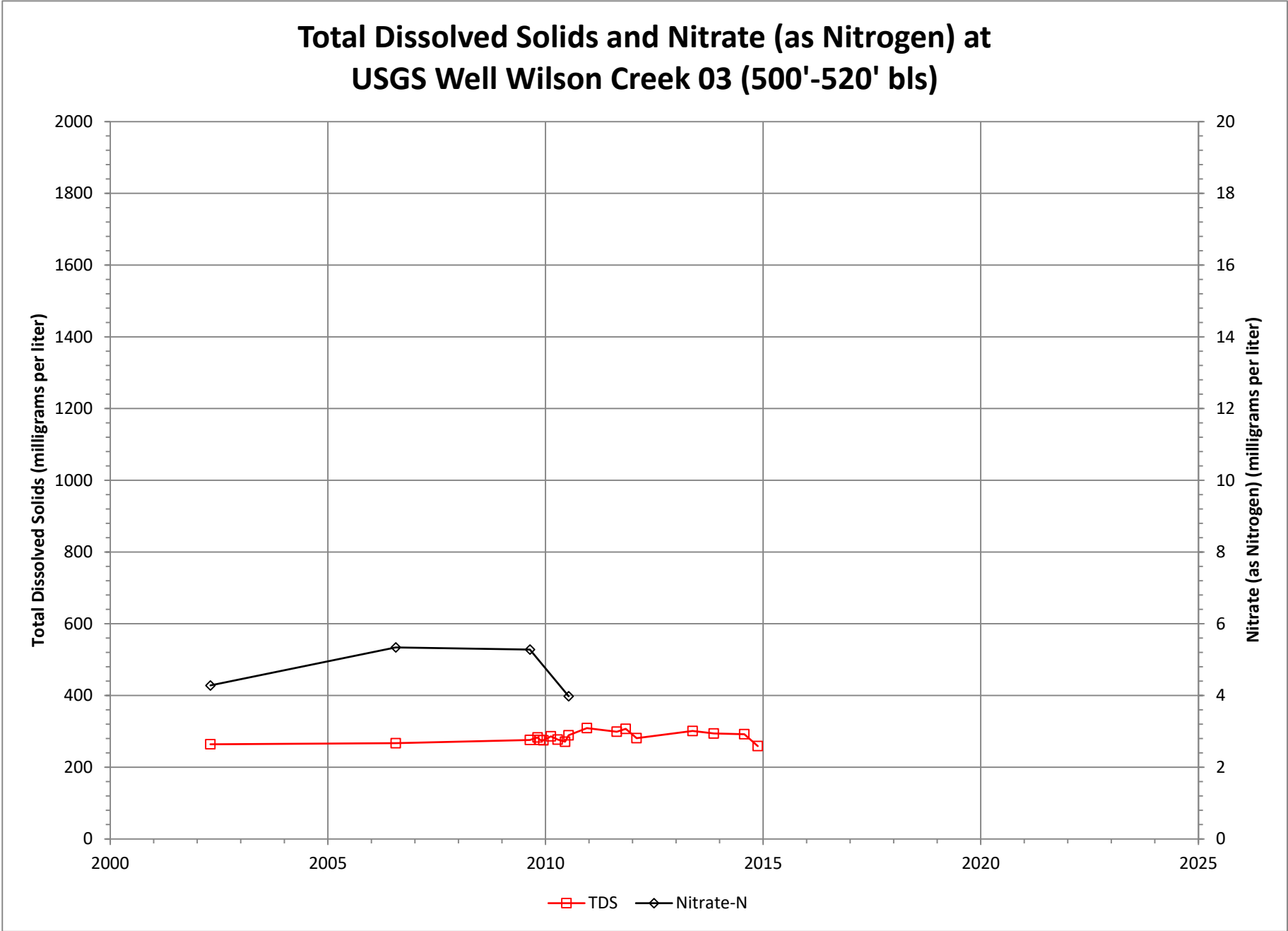


Total Dissolved Solids and Nitrate (as Nitrogen) at USGS Well Equestrian Park on Ave G 04 (380'-400' bls)

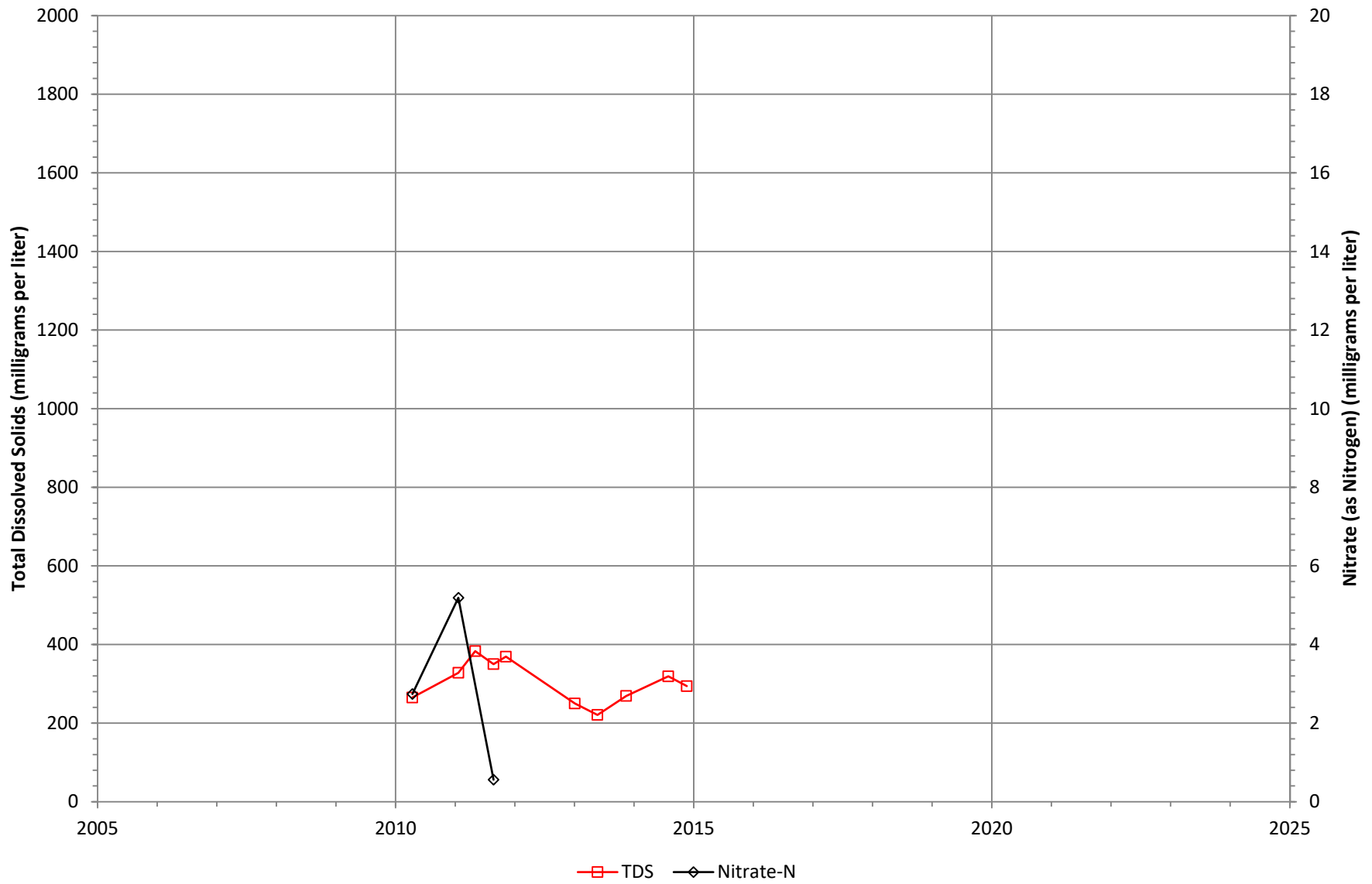


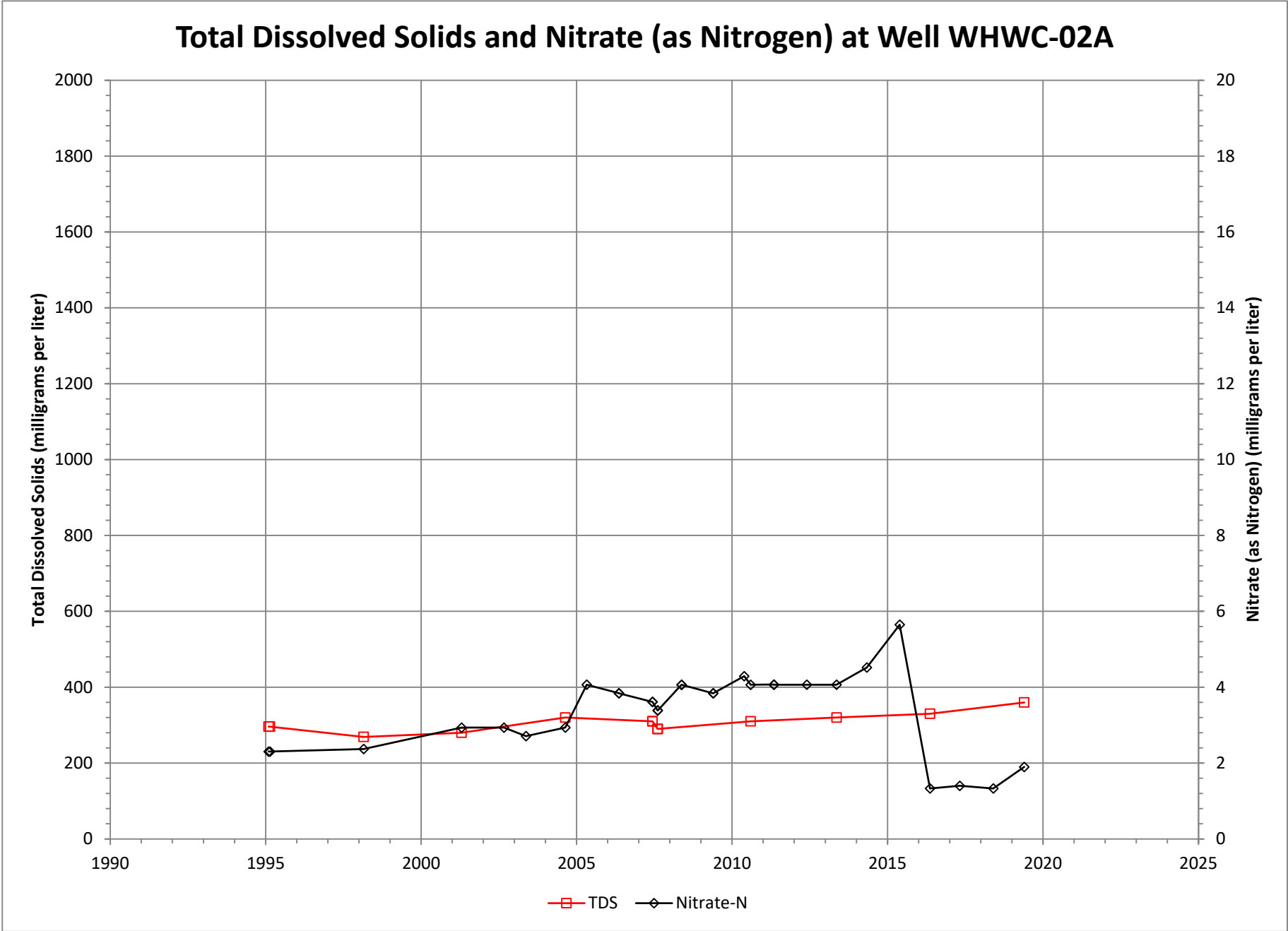


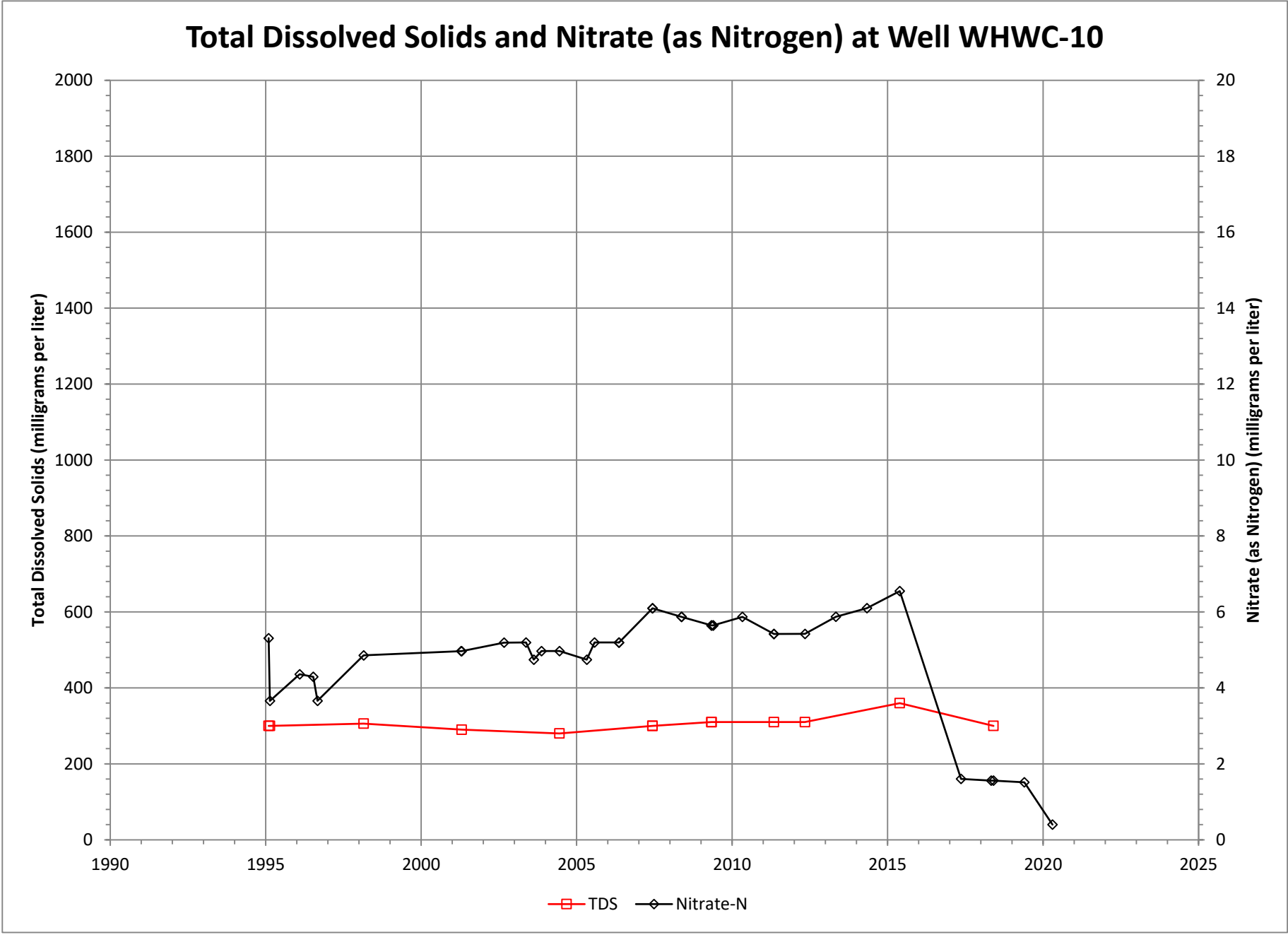


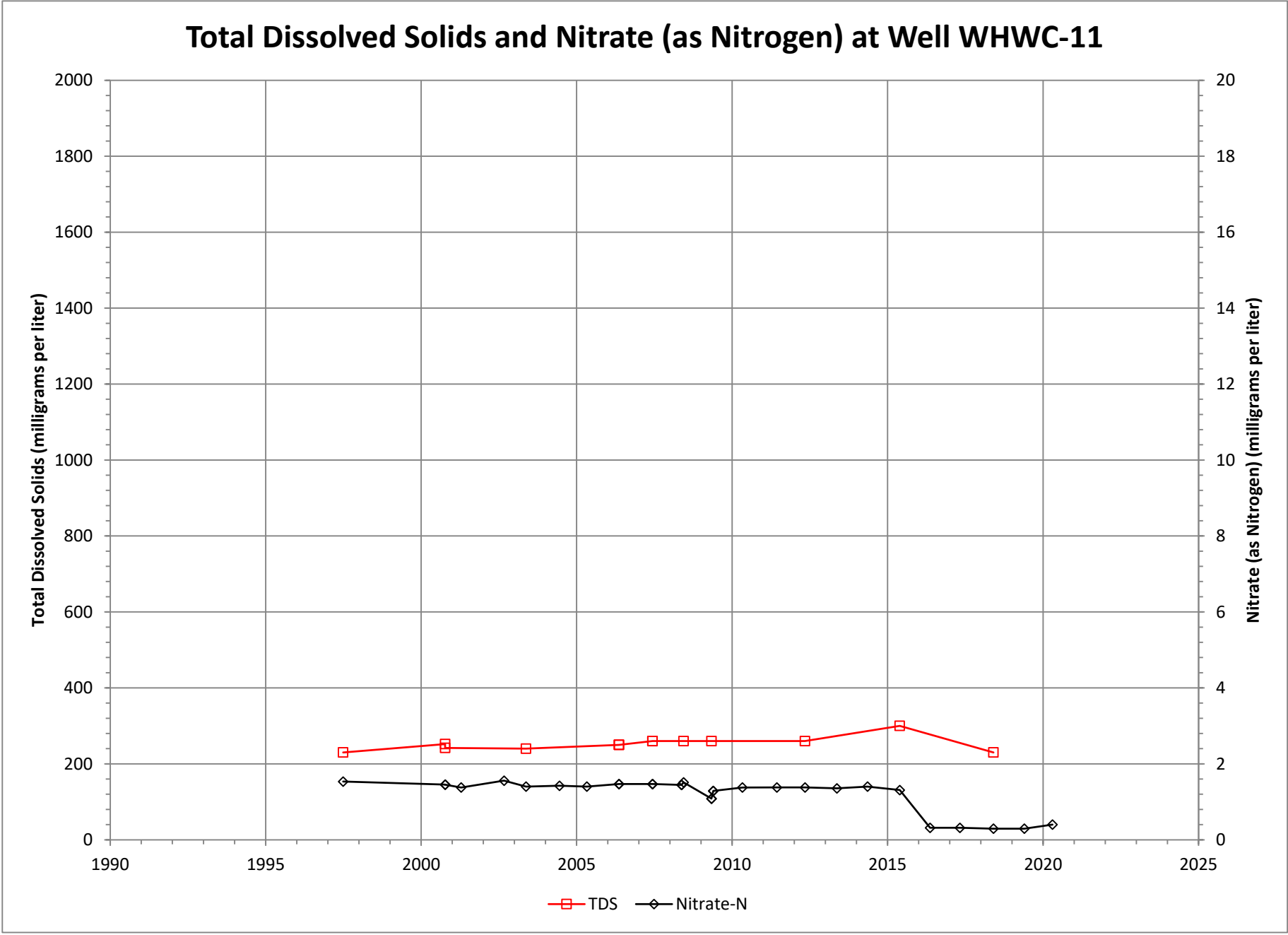


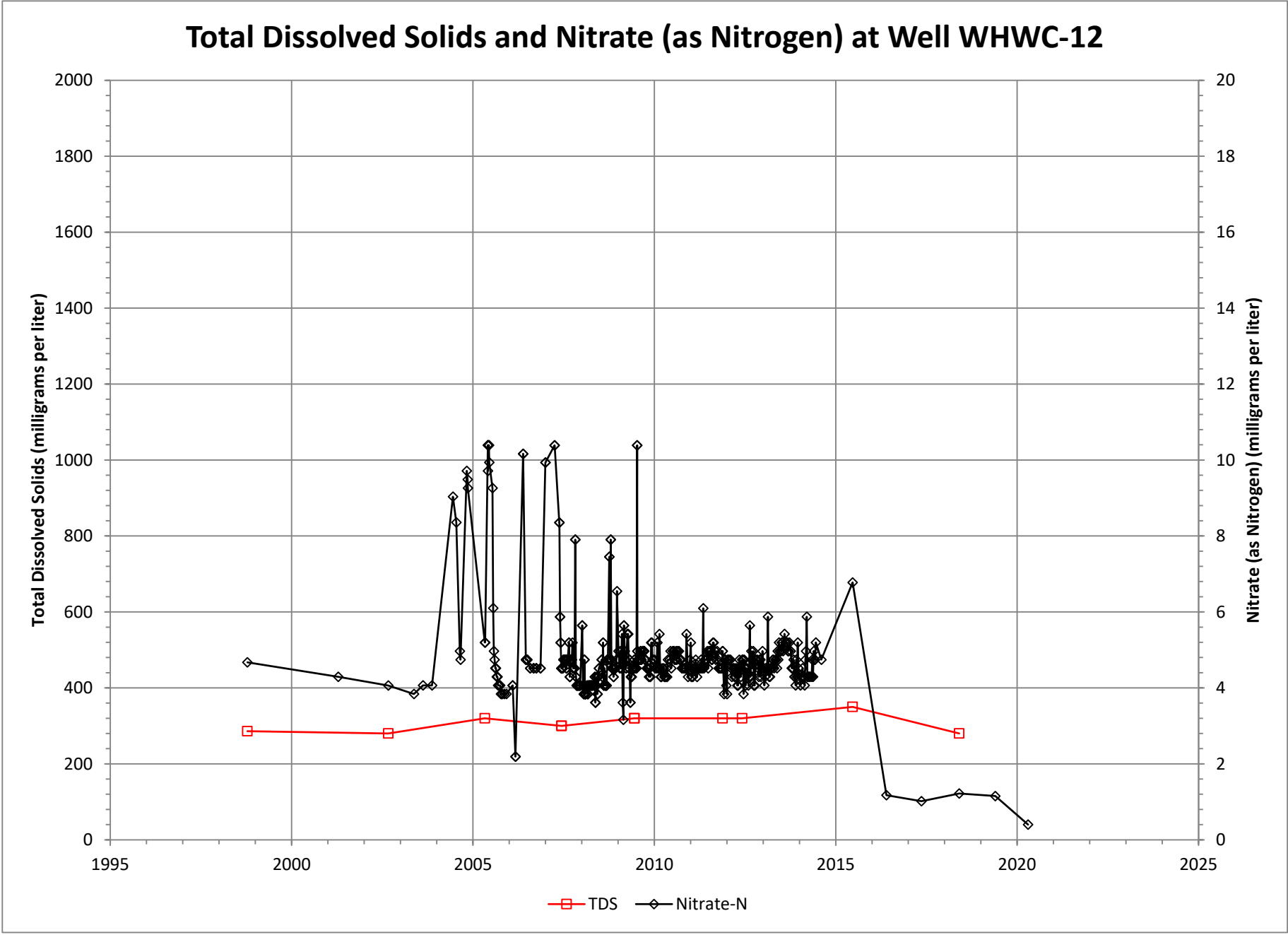
Total Dissolved Solids and Nitrate (as Nitrogen) at USGS Well Wilson Creek 04 (350'-370' bls)

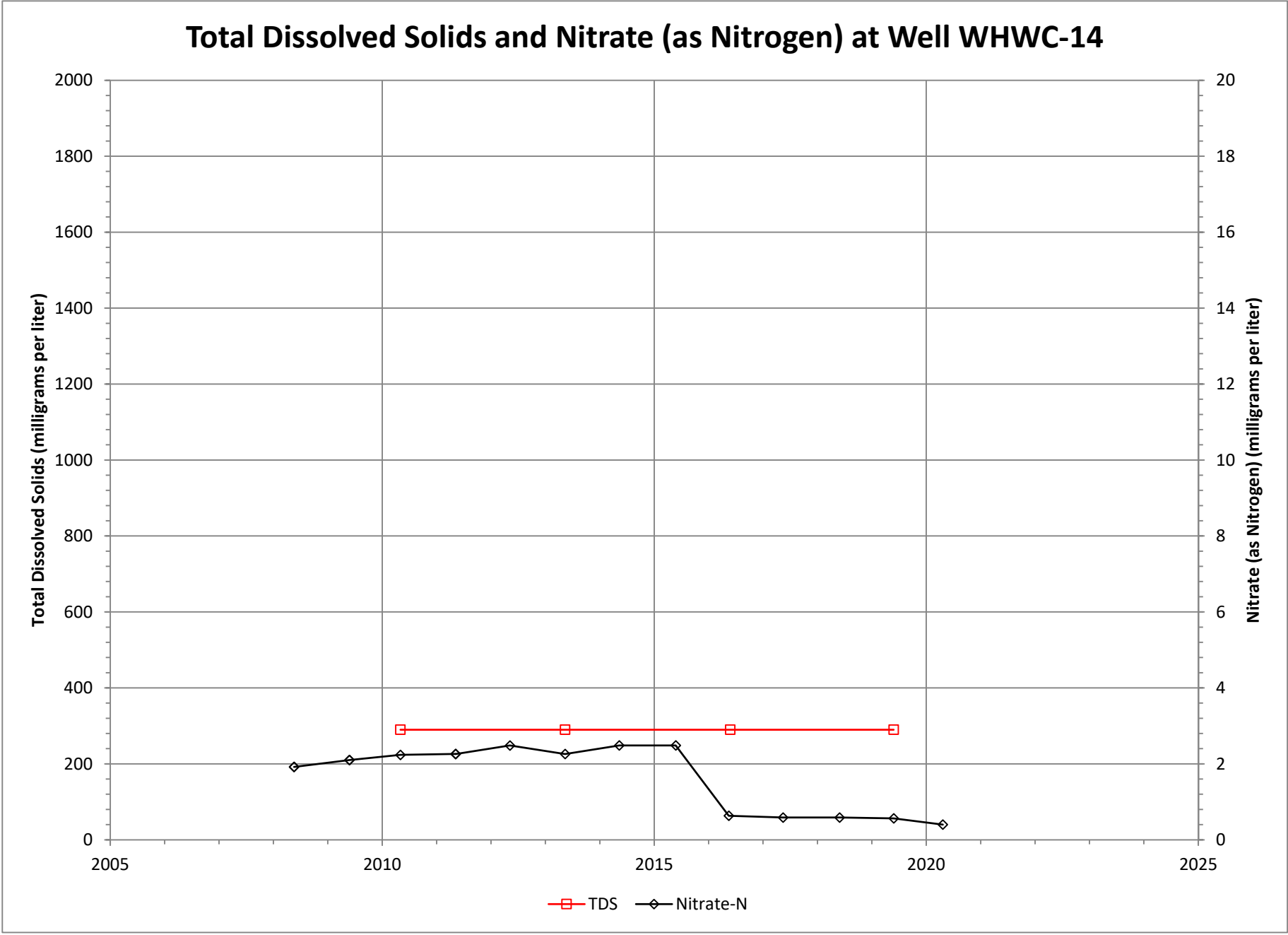












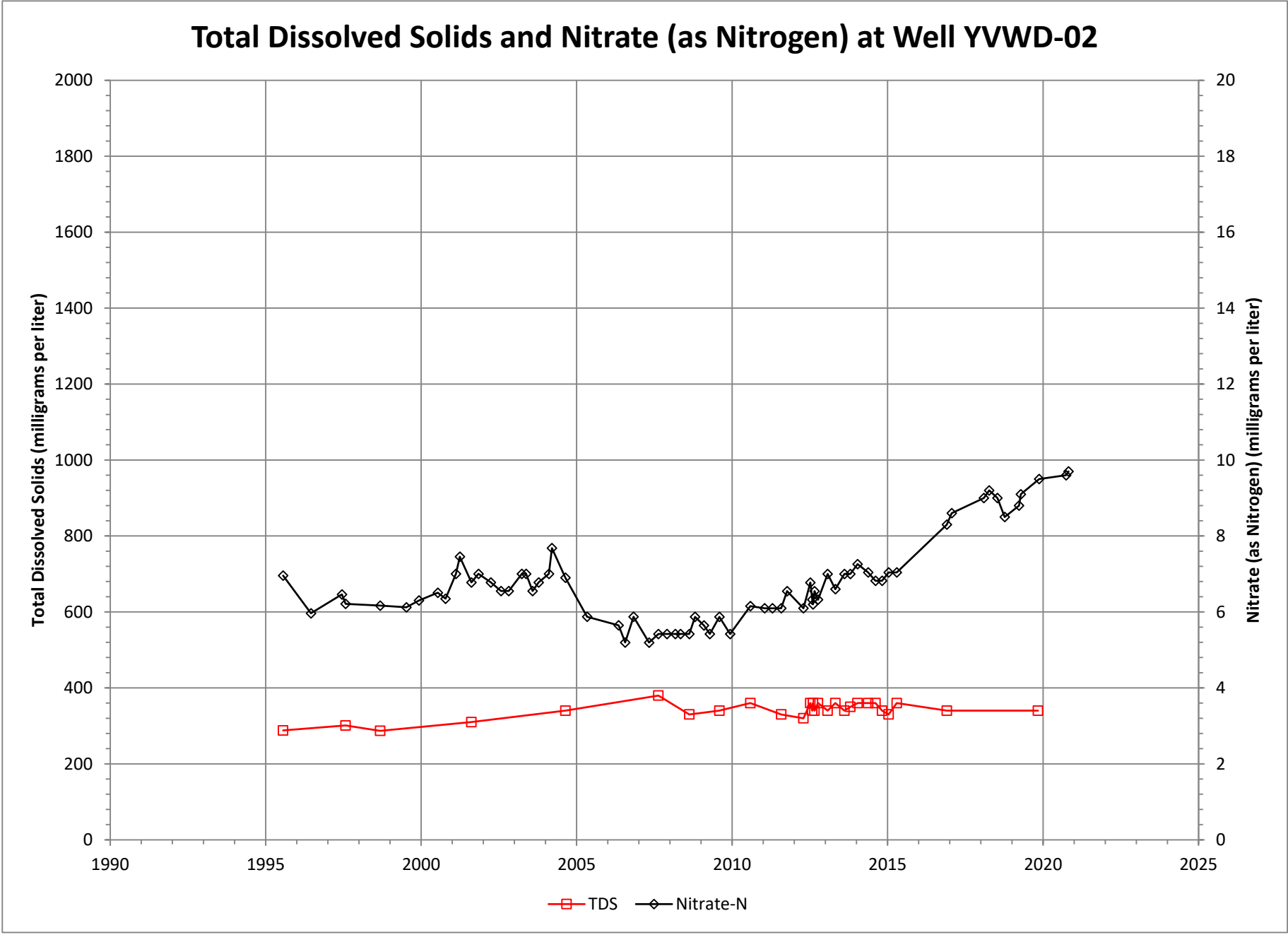
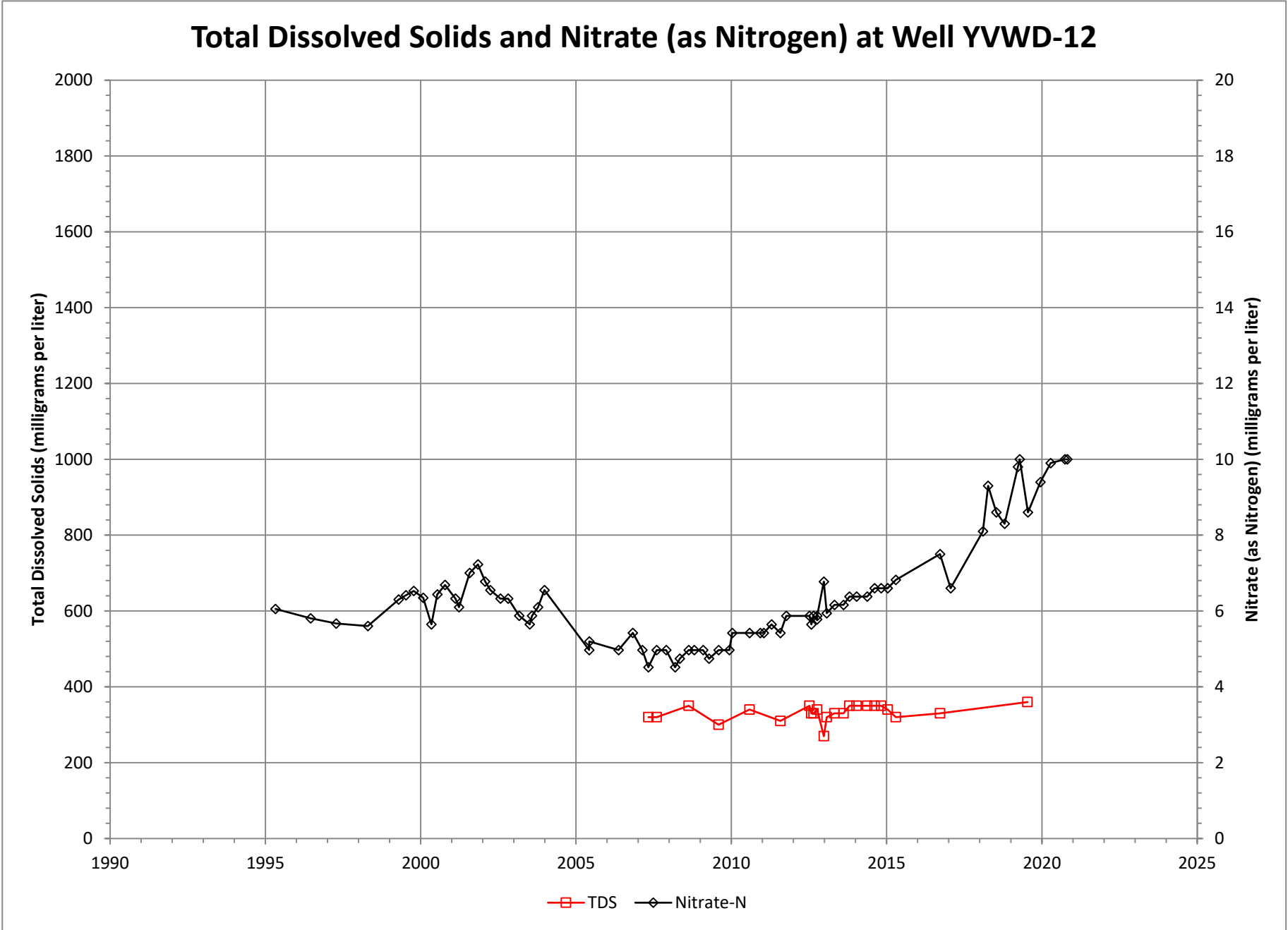
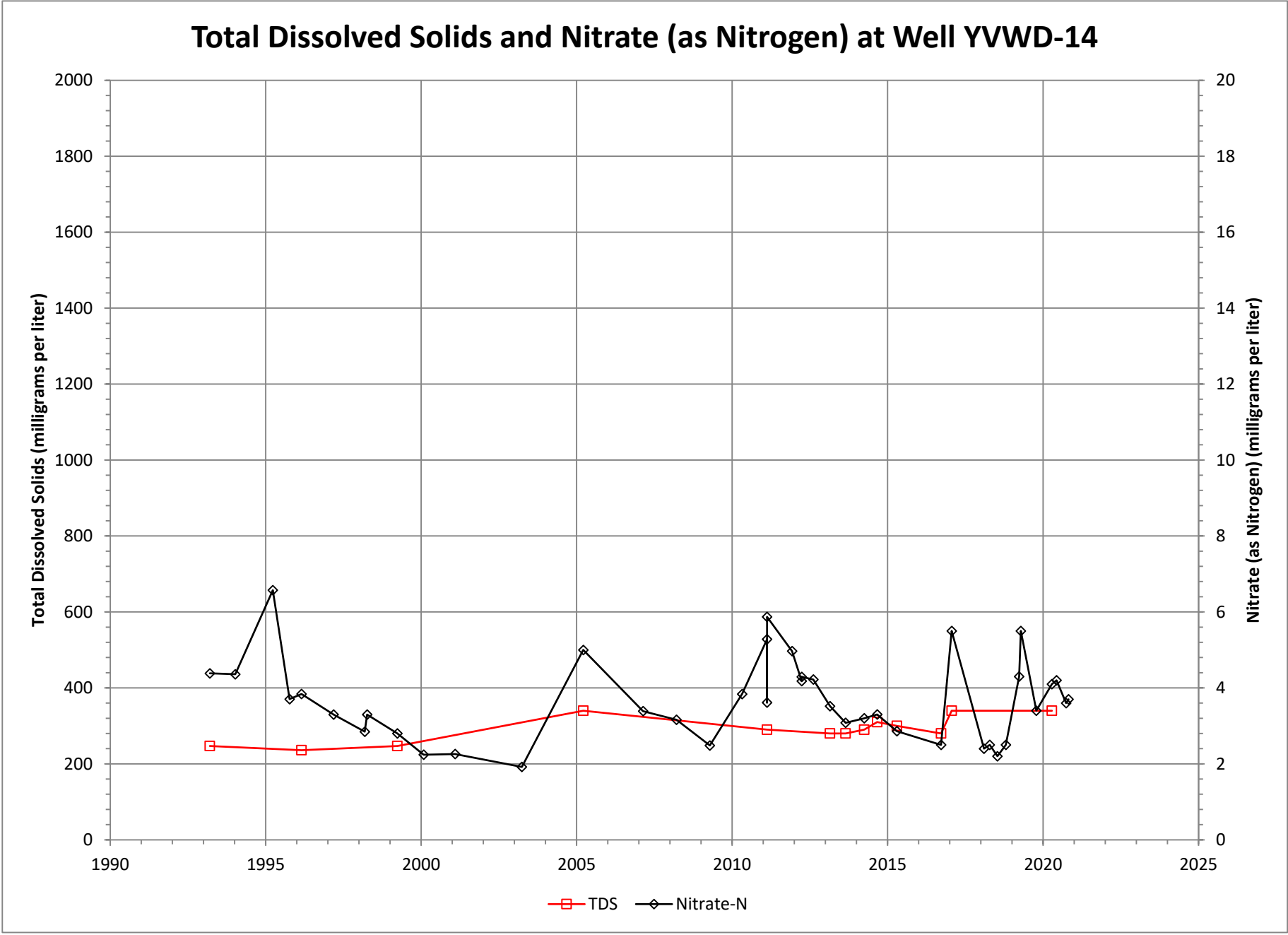
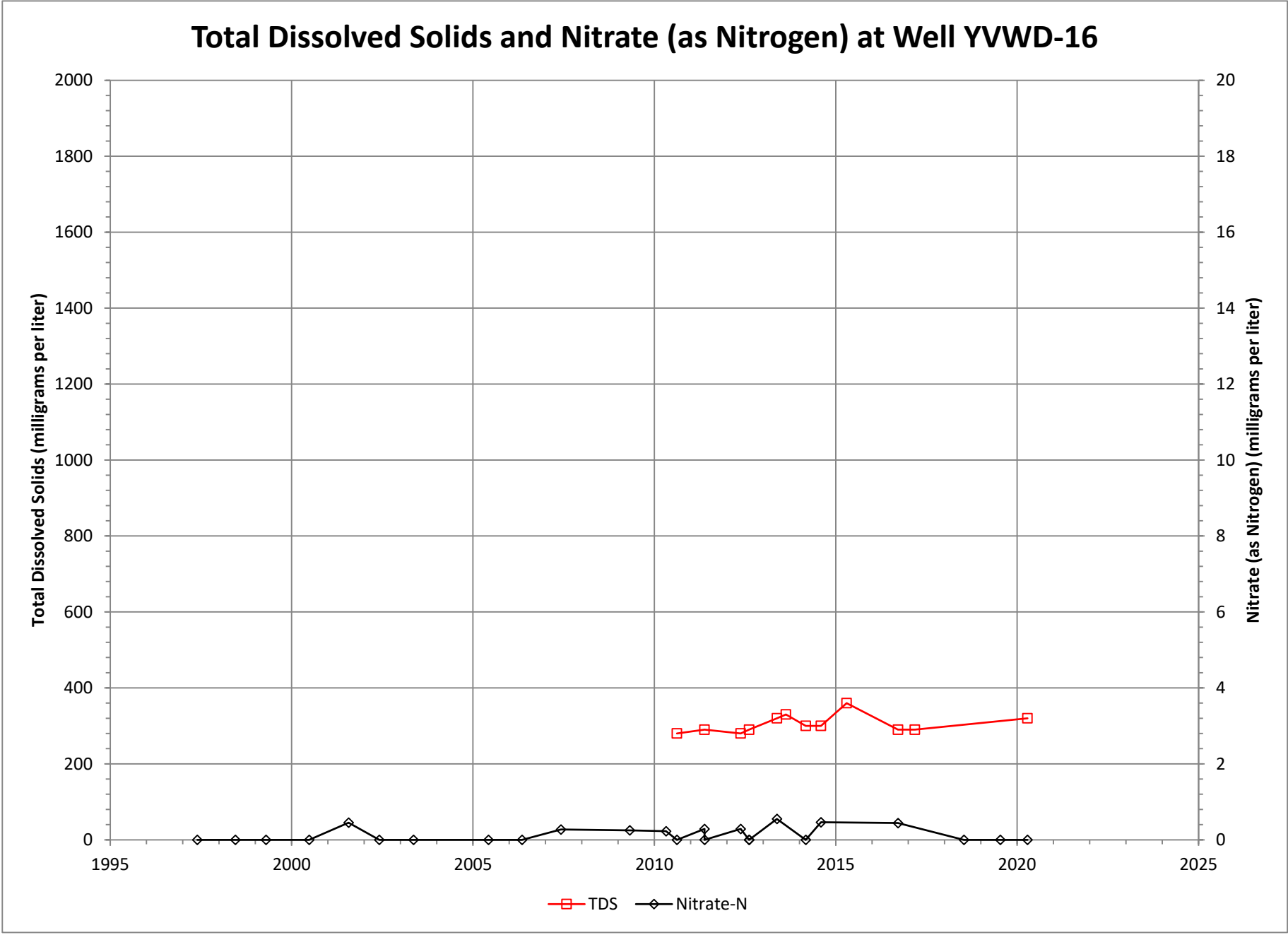


Figure B-51 297







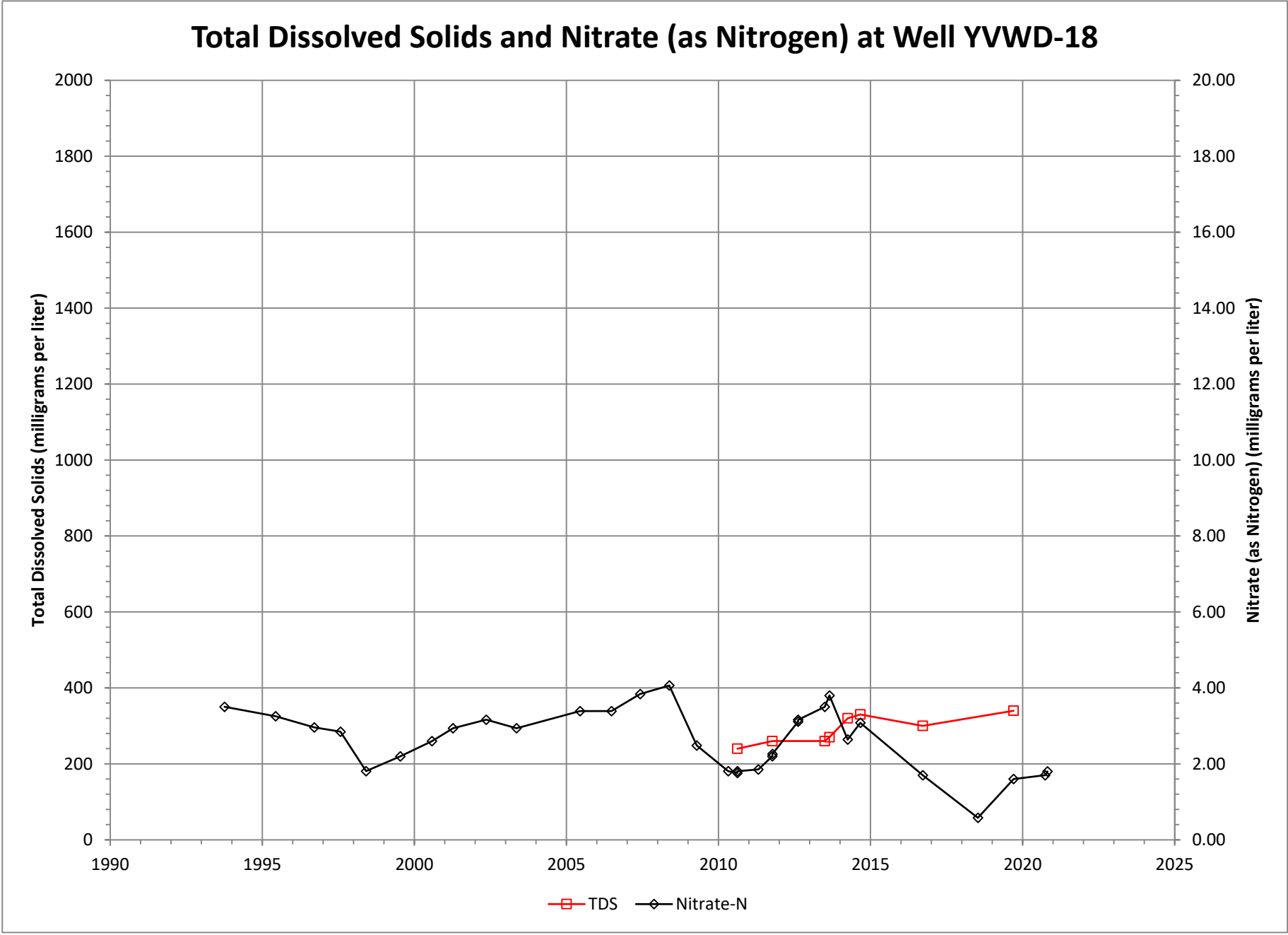
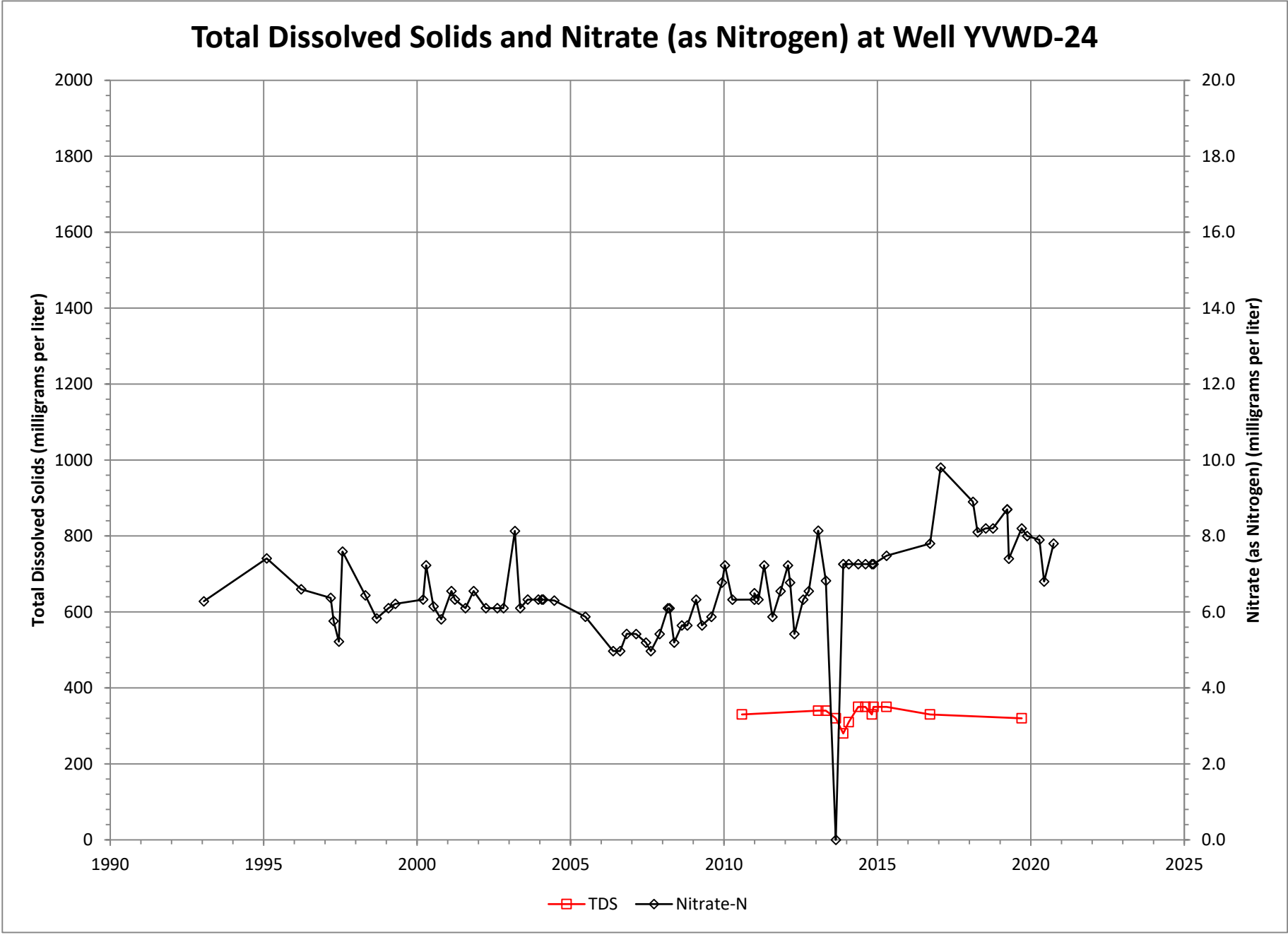
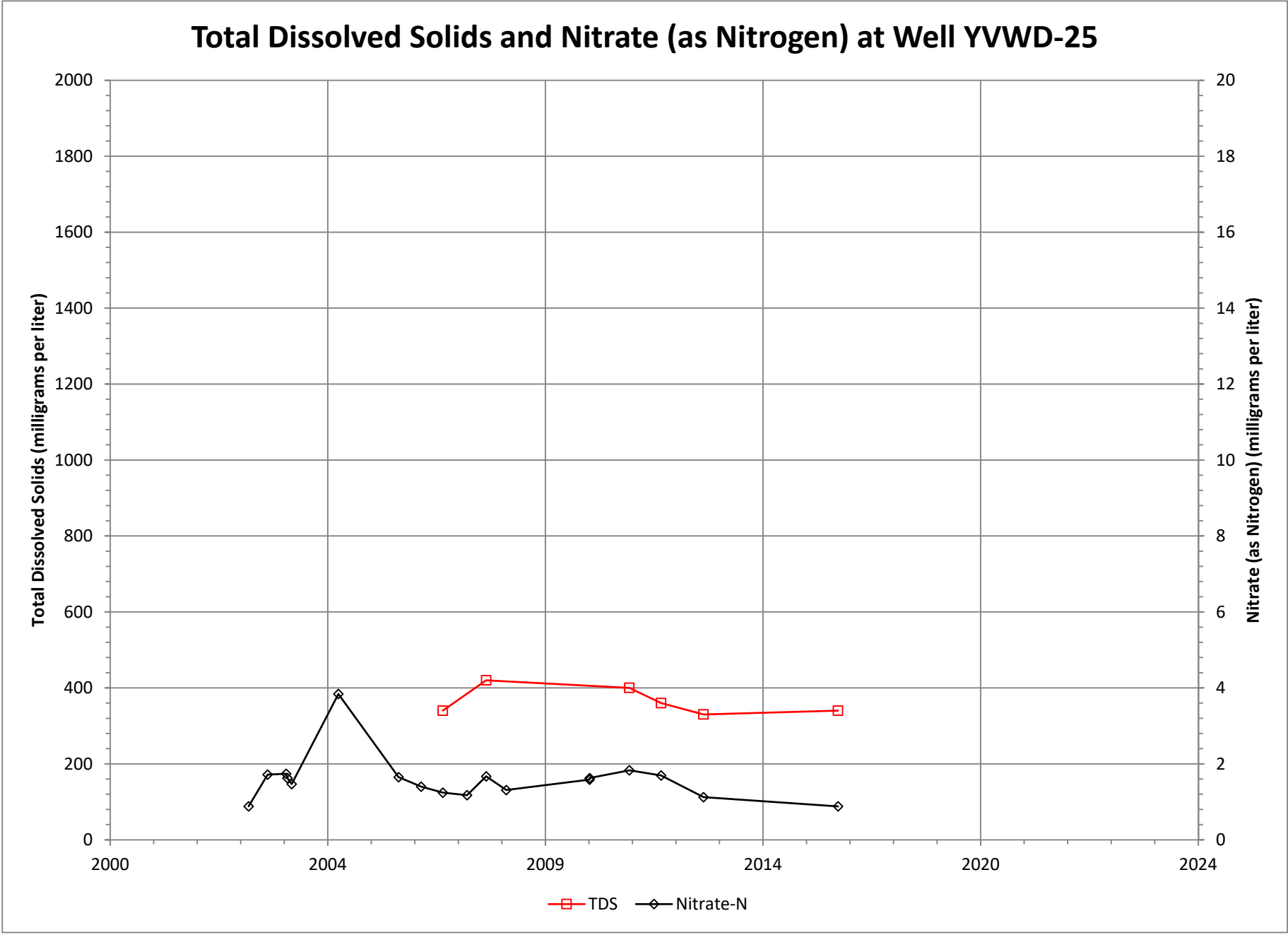
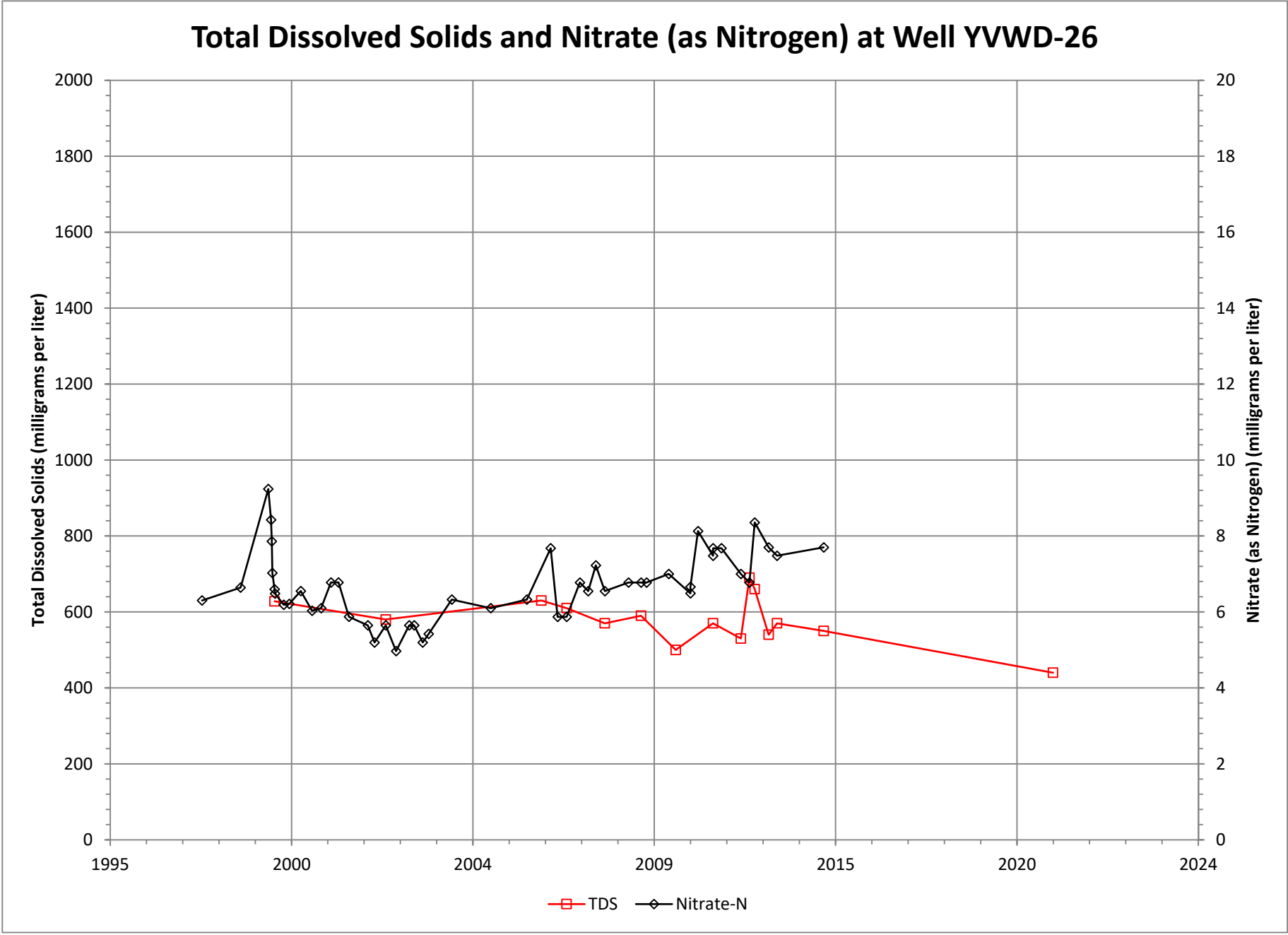
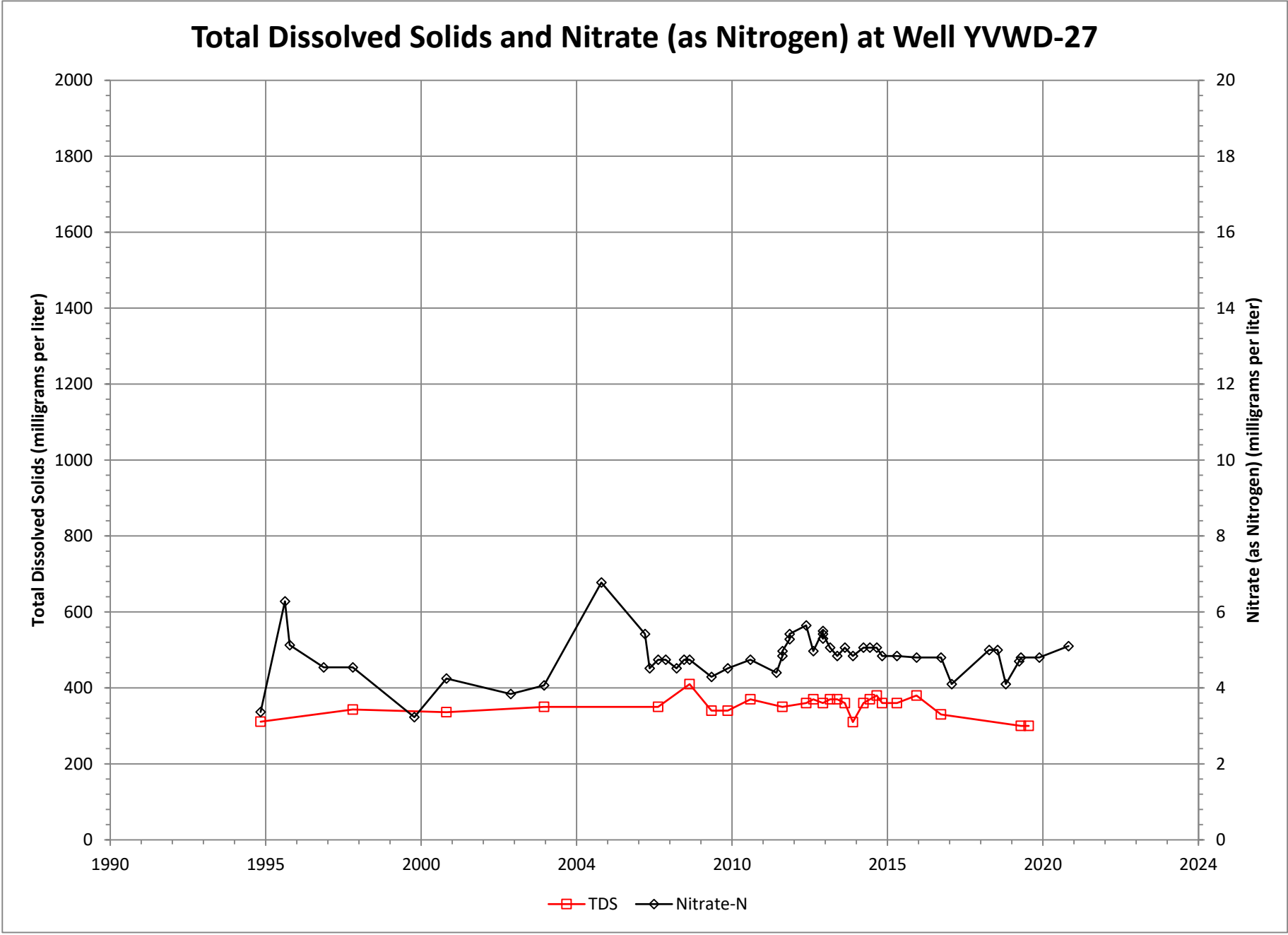


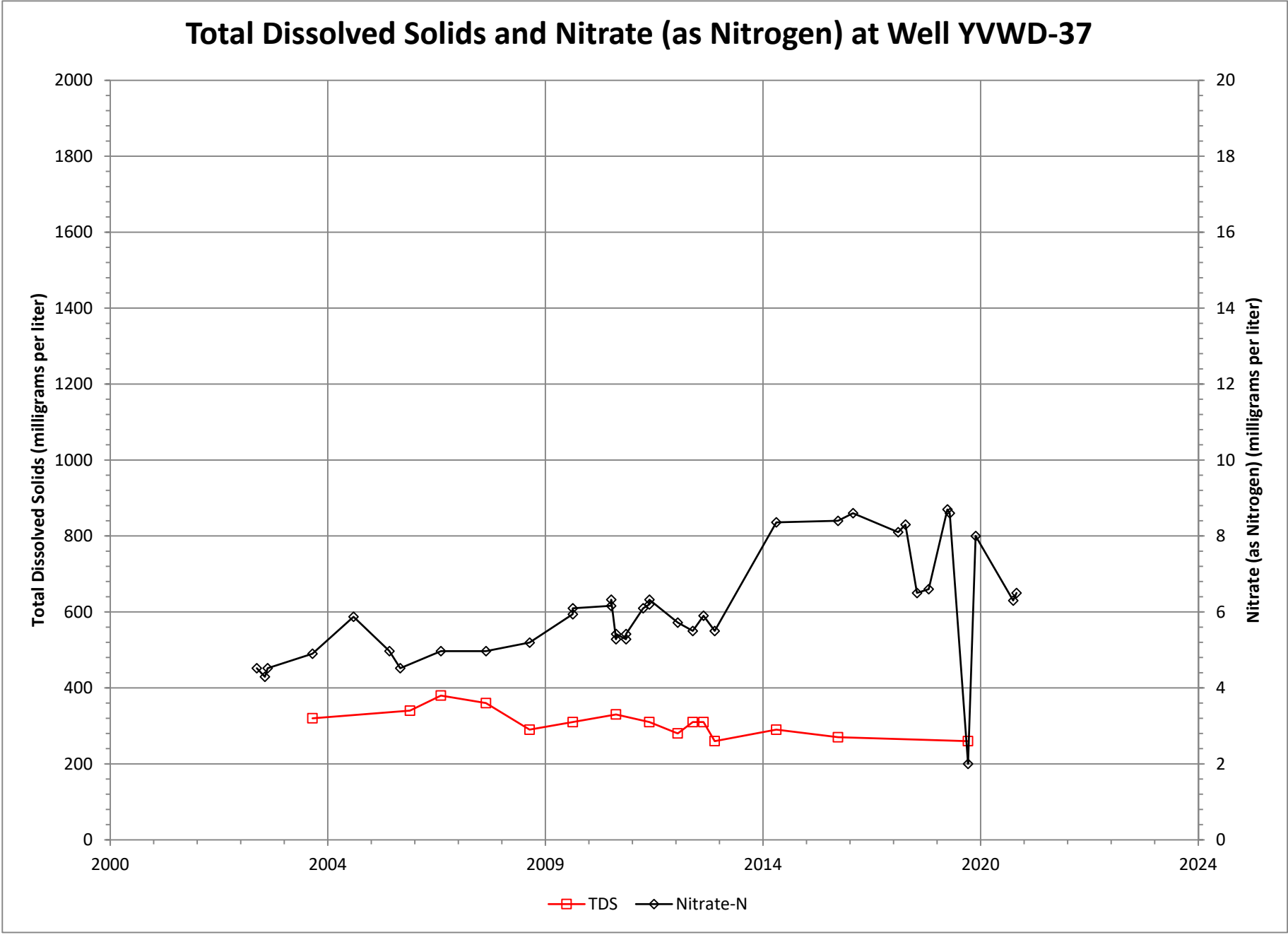
Figure B-6 301

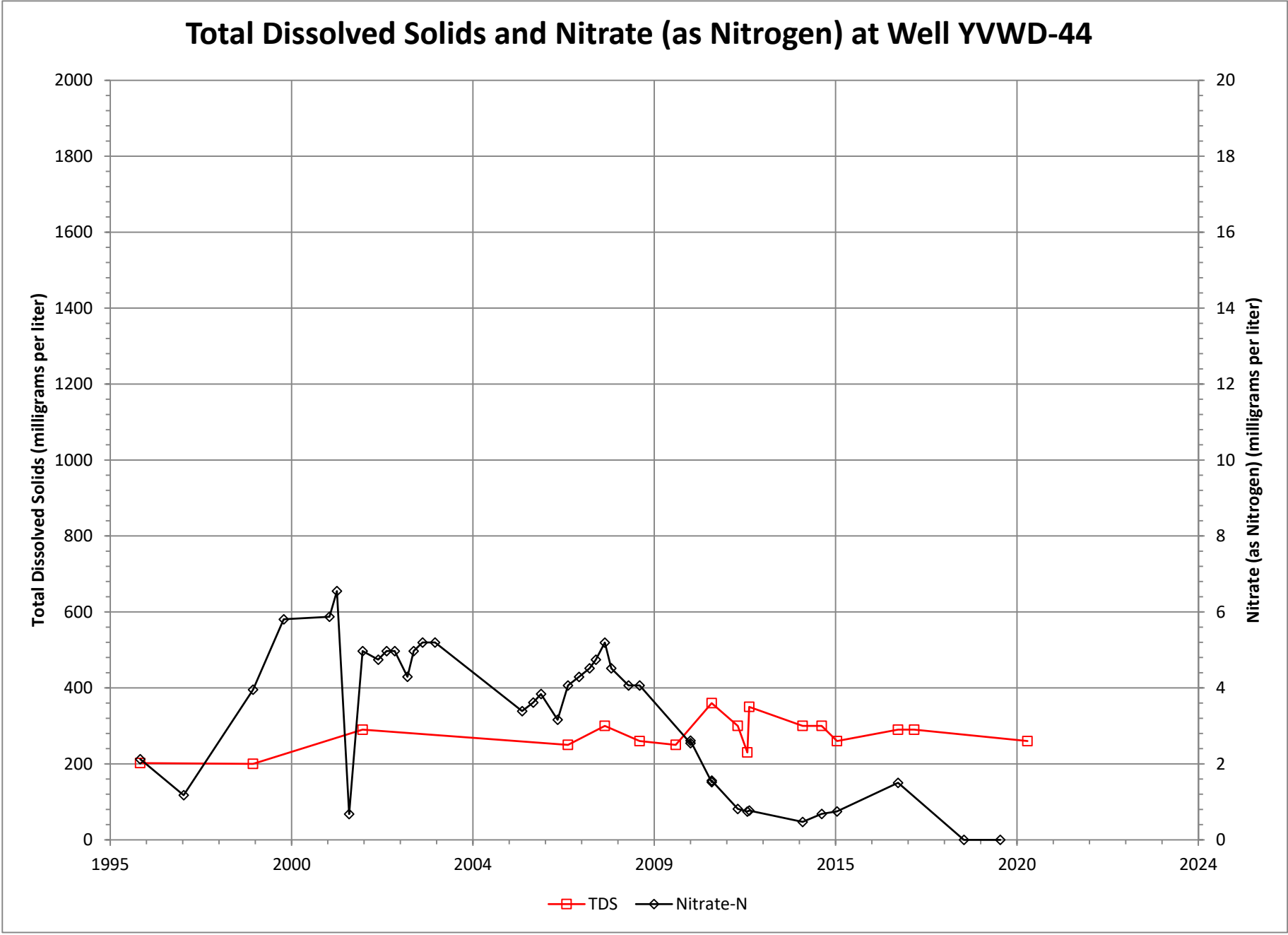


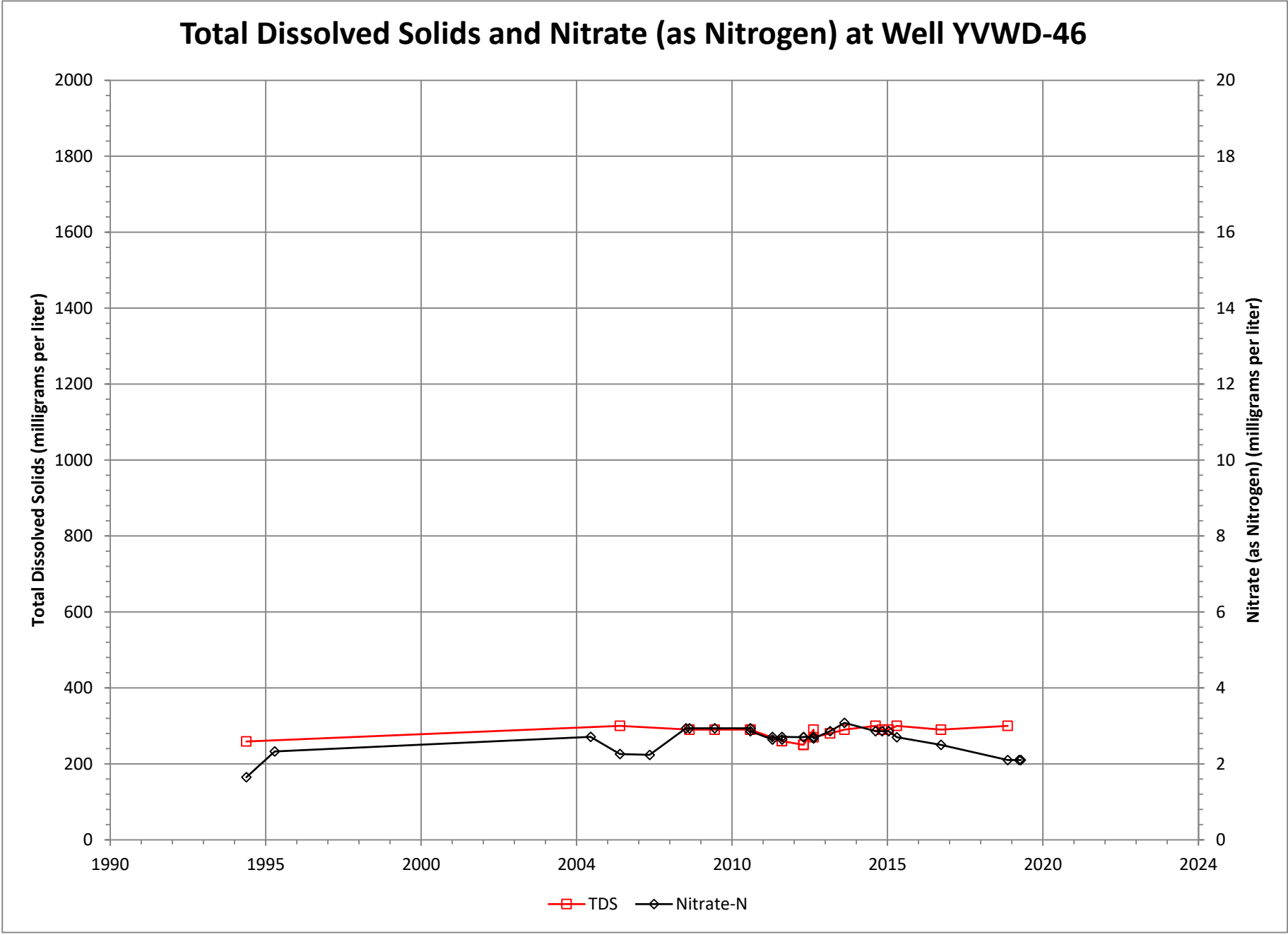


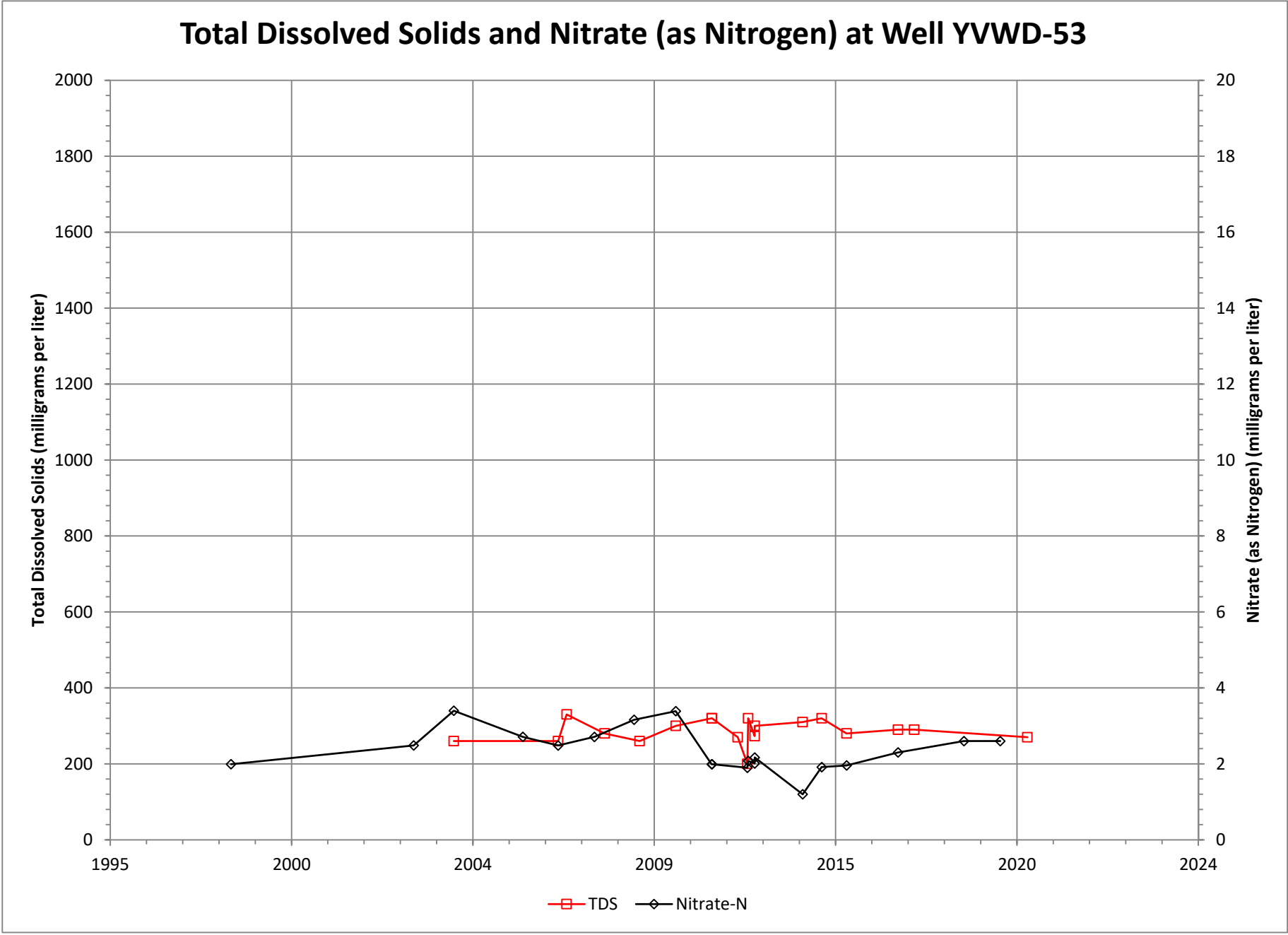


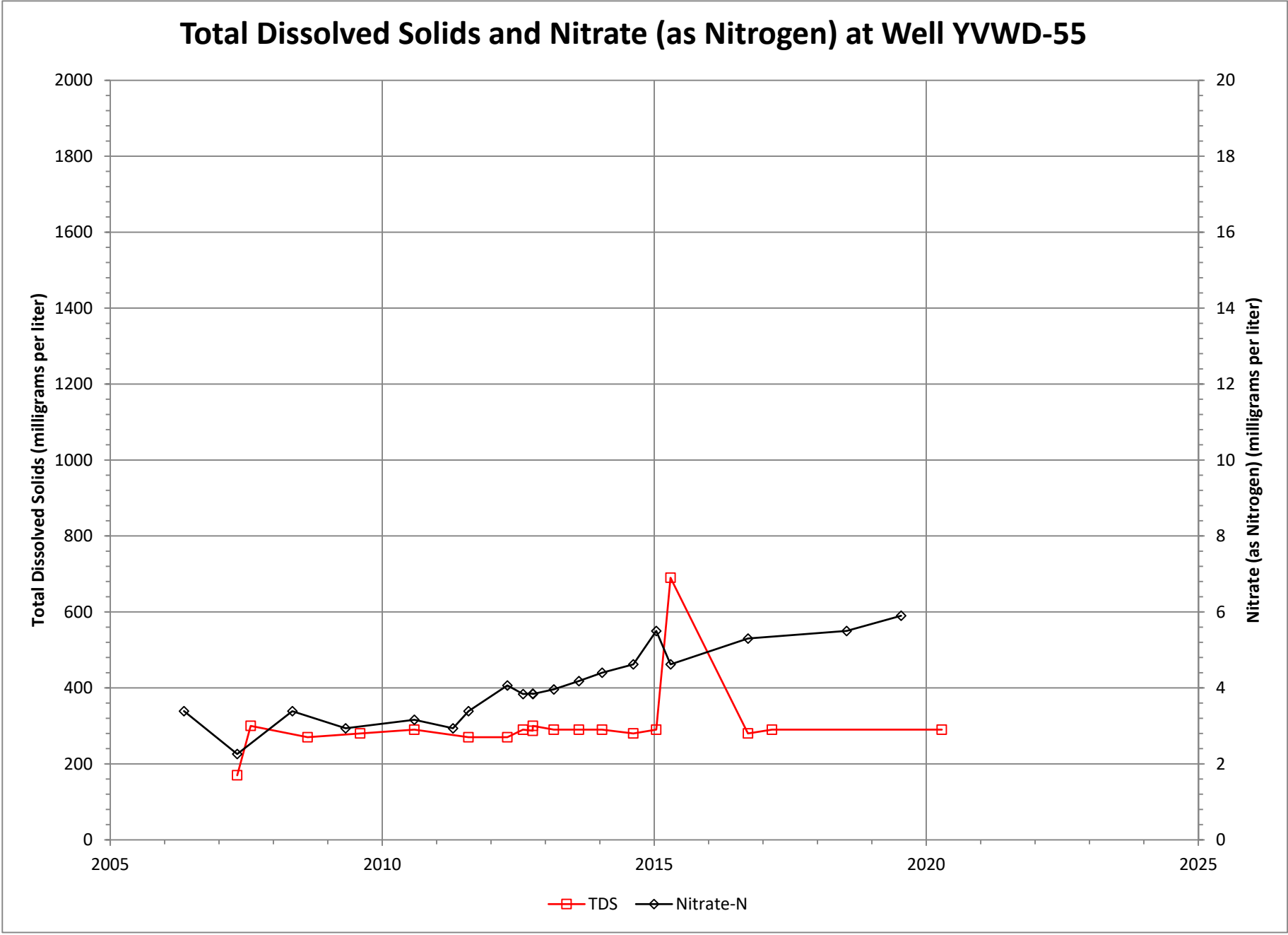












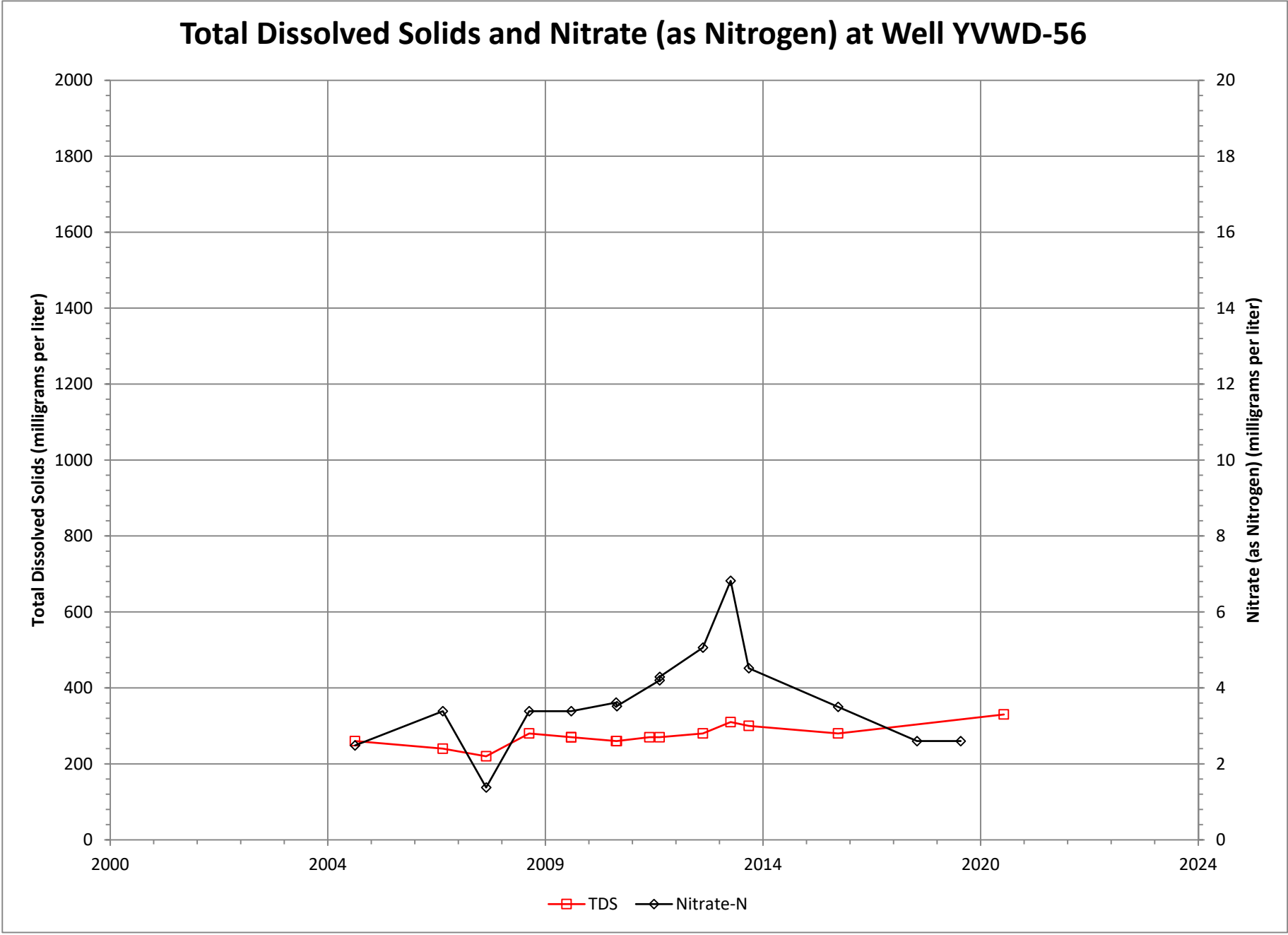
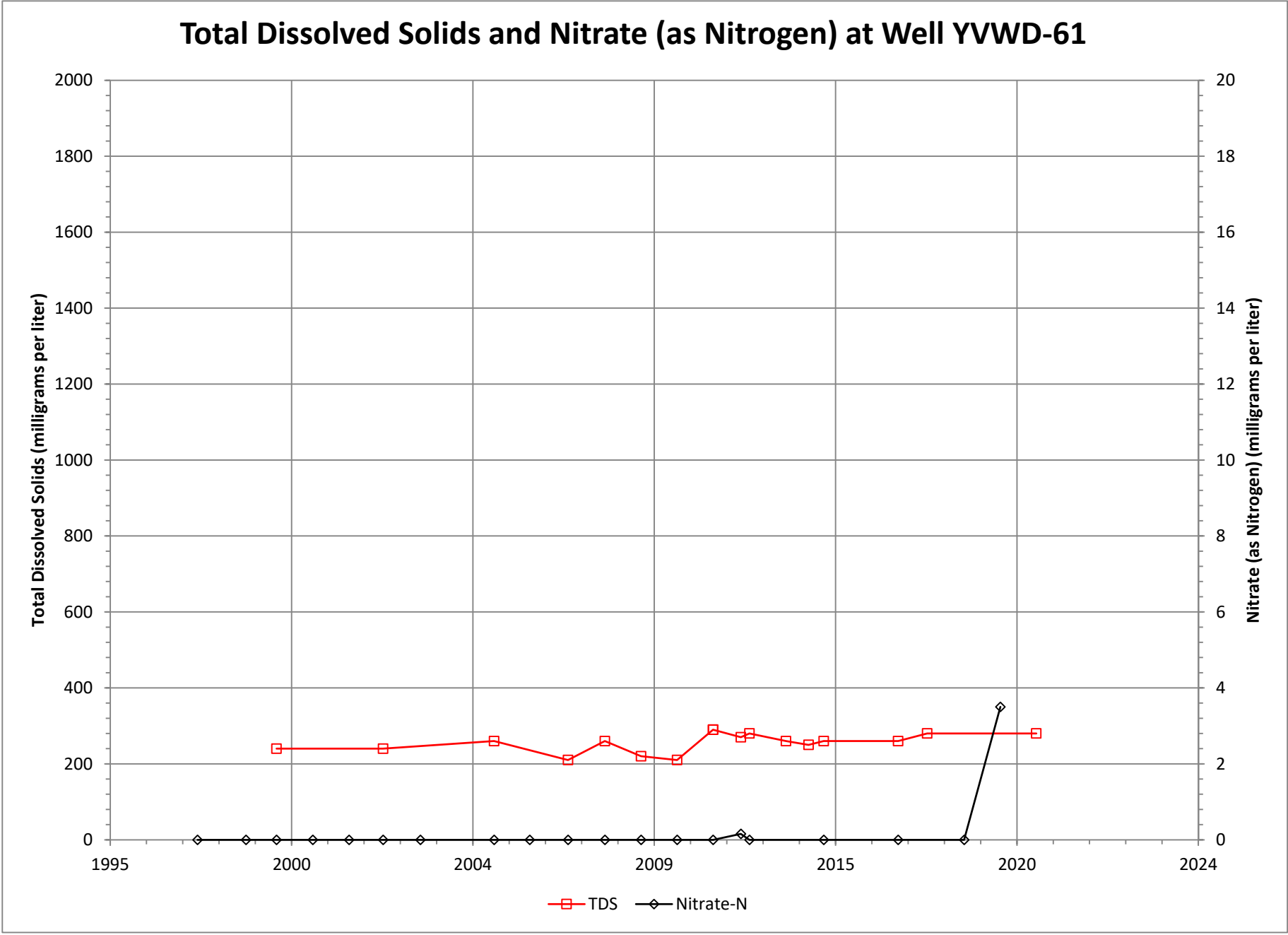


Figure B-7 311



APPENDIX C

**Historical Stream Flow Discharge at Surface Water
Monitoring Sites in the San Timoteo Groundwater
Management Zone**

Appendix C - Historical Stream Flow at Surface Water Monitoring Site YVWD-A in the San Timoteo Groundwater Management Zone

Site name	Date	Results	Units	Comments
YVWD-A	1/8/2009	3.93	cfs	
YVWD-A	1/15/2009	3.69	cfs	
YVWD-A	1/29/2009	4.61	cfs	
YVWD-A	2/12/2009	3.66	cfs	
YVWD-A	2/26/2009	6.36	cfs	
YVWD-A	3/12/2009	5.31	cfs	
YVWD-A	3/26/2009	5.25	cfs	
YVWD-A	4/9/2009	3.36	cfs	
YVWD-A	4/23/2009	2.17	cfs	
YVWD-A	5/6/2009	2.71	cfs	
YVWD-A	5/21/2009	2.31	cfs	
YVWD-A	6/4/2009	2.50	cfs	
YVWD-A	6/17/2009	2.70	cfs	
YVWD-A	7/8/2009		cfs	INSUFFICIENT
YVWD-A	7/15/2009		cfs	NO FLOW
YVWD-A	7/29/2009		cfs	NO FLOW
YVWD-A	8/13/2009		cfs	NO FLOW
YVWD-A	8/26/2009		cfs	NO FLOW
YVWD-A	9/10/2009		cfs	NO FLOW
YVWD-A	9/23/2009		cfs	NO FLOW
YVWD-A	10/8/2009	4.25	cfs	
YVWD-A	10/23/2009	1.32	cfs	
YVWD-A	11/5/2009	1.16	cfs	
YVWD-A	11/19/2009	2.19	cfs	
YVWD-A	12/3/2009	2.34	cfs	
YVWD-A	12/17/2009		cfs	INSUFFICIENT
YVWD-A	1/7/2010		cfs	insufficient depth
YVWD-A	1/29/2010	4.73	cfs	very turbid
YVWD-A	2/4/2010	7.32	cfs	
YVWD-A	2/18/2010	6.32	cfs	
YVWD-A	3/4/2010	8.46	cfs	
YVWD-A	3/18/2010	8.77	cfs	
YVWD-A	3/31/2010	3.55	cfs	
YVWD-A	1/13/2011	4.92	cfs	
YVWD-A	1/27/2011	5.93	cfs	
YVWD-A	2/10/2011	2.81	cfs	
YVWD-A	2/24/2011	2.41	cfs	
YVWD-A	3/10/2011		cfs	insufficient depth
YVWD-A	3/24/2011		cfs	rainy unsafe conditions
YVWD-A	4/7/2011	3.67	cfs	
YVWD-A	4/21/2011	5.11	cfs	

Appendix C - Historical Stream Flow at Surface Water Monitoring Site YVWD-A in the San Timoteo Groundwater Management Zone

Site name	Date	Results	Units	Comments
YVWD-A	5/5/2011	1.47	cfs	
YVWD-A	5/18/2011	8.12	cfs	
YVWD-A	6/2/2011	3.17	cfs	
YVWD-A	6/16/2011	3.30	cfs	
YVWD-A	6/30/2011	2.68	cfs	
YVWD-A	7/14/2011	2.07	cfs	
YVWD-A	7/28/2011			dry
YVWD-A	8/11/2011			dry
YVWD-A	8/24/2011			dry
YVWD-A	9/8/2011			dry
YVWD-A	9/22/2011			dry
YVWD-A	10/6/2011			insufficient
YVWD-A	10/20/2011			insufficient
YVWD-A	11/3/2011			insufficient
YVWD-A	11/17/2011			insufficient
YVWD-A	12/1/2011			insufficient
YVWD-A	12/15/2011	3.56	cfs	
YVWD-A	12/29/2011	3.10	cfs	
YVWD-A	1/12/2012		cfs	insufficient depth
YVWD-A	1/26/2012		cfs	insufficient depth
YVWD-A	2/9/2012		cfs	insufficient depth
YVWD-A	2/23/2012		cfs	insufficient depth
YVWD-A	3/8/2012		cfs	insufficient depth
YVWD-A	3/22/2012		cfs	insufficient depth
YVWD-A	4/5/2012	3.62	cfs	
YVWD-A	4/19/2012		cfs	insufficient depth
YVWD-A	5/3/2012		cfs	insufficient depth
YVWD-A	5/17/2012		cfs	insufficient depth
YVWD-A	5/31/2012		cfs	dry
YVWD-A	6/14/2012		cfs	insufficient depth
YVWD-A	6/28/2012		cfs	dry
YVWD-A	7/12/2012		cfs	dry
YVWD-A	7/26/2012		cfs	dry
YVWD-A	8/9/2012		cfs	dry
YVWD-A	8/23/2012	2.54	cfs	
YVWD-A	9/5/2012		cfs	dry
YVWD-A	9/20/2012		cfs	dry
YVWD-A	10/4/2012		cfs	dry
YVWD-A	10/18/2012	2.61	cfs	
YVWD-A	11/1/2012		cfs	insufficient depth
YVWD-A	11/14/2012		cfs	insufficient depth

Appendix C - Historical Stream Flow at Surface Water Monitoring Site YVWD-A in the San Timoteo Groundwater Management Zone

Site name	Date	Results	Units	Comments
YVWD-A	11/29/2012		cfs	insufficient depth
YVWD-A	12/6/2012	2.34	cfs	
YVWD-A	12/27/2012	7.92	cfs	
YVWD-A	1/14/2013		cfs	insufficient depth
YVWD-A	1/31/2013		cfs	insufficient depth
YVWD-A	2/7/2013	4.51	cfs	
YVWD-A	2/28/2013		cfs	insufficient depth
YVWD-A	3/12/2013	5.16	cfs	
YVWD-A	3/21/2013		cfs	insufficient depth
YVWD-A	4/4/2013	4.51	cfs	
YVWD-A	4/18/2013		cfs	insufficient depth
YVWD-A	5/1/2013	4.22	cfs	
YVWD-A	5/16/2013	3.19	cfs	
YVWD-A	5/30/2013	4.07	cfs	
YVWD-A	6/13/2013	3.36	cfs	
YVWD-A	6/27/2013		cfs	insufficient depth
YVWD-A	7/11/2013	0.00	cfs	dry
YVWD-A	7/25/2013		cfs	insufficient depth
YVWD-A	8/8/2013	0.00	cfs	dry
YVWD-A	8/22/2013	0.00	cfs	dry
YVWD-A	9/5/2013		cfs	insufficient depth
YVWD-A	9/19/2013		cfs	insufficient depth
YVWD-A	10/3/2013	2.82	cfs	
YVWD-A	10/17/2013	1.38	cfs	
YVWD-A	10/31/2013	2.83	cfs	
YVWD-A	11/14/2013		cfs	dead skunk in water
YVWD-A	11/27/2013	3.18	cfs	
YVWD-A	12/13/2013	2.11	cfs	
YVWD-A	12/23/2013	3.77	cfs	
YVWD-A	1/7/2014	3.50	cfs	
YVWD-A	1/23/2014	3.50	cfs	
YVWD-A	1/30/2014		cfs	insufficient depth for gage
YVWD-A	2/13/2014	3.70	cfs	
YVWD-A	2/27/2014		cfs	no access
YVWD-A	3/13/2014	4.90	cfs	
YVWD-A	3/27/2014	5.90	cfs	
YVWD-A	4/10/2014	4.36	cfs	
YVWD-A	4/23/2014	3.92	cfs	
YVWD-A	5/13/2014	2.40	cfs	
YVWD-A	5/22/2014		cfs	insuficient
YVWD-A	6/5/2014	1.01	cfs	

Appendix C - Historical Stream Flow at Surface Water Monitoring Site YVWD-A in the San Timoteo Groundwater Management Zone

Site name	Date	Results	Units	Comments
YVWD-A	6/12/2014	0.88	cfs	
YVWD-A	6/26/2014	2.59	cfs	
YVWD-A	7/10/2014		cfs	insuficient
YVWD-A	7/24/2014	1.67	cfs	
YVWD-A	8/7/2014		cfs	insuficient
YVWD-A	8/25/2014		cfs	insuficient
YVWD-A	9/11/2014		cfs	insuficient
YVWD-A	9/25/2014	2.86	cfs	
YVWD-A	10/1/2014		cfs	insufficient
YVWD-A	10/9/2014		cfs	meter down
YVWD-A	10/23/2014	2.39	cfs	
YVWD-A	11/6/2014	2.69	cfs	
YVWD-A	11/21/2014	4.71	cfs	
YVWD-A	12/18/2014	7.06	cfs	
YVWD-A	10/1/2015	2.81	cfs	
YVWD-A	10/15/2015	3.68	cfs	
YVWD-A	10/29/2015	2.84	cfs	
YVWD-A	11/12/2015	4.59	cfs	
YVWD-A	12/2/2015	3.94	cfs	
YVWD-A	12/15/2015	4.12	cfs	
YVWD-A	12/29/2015	4.43	cfs	
YVWD-A	1/12/2016	5.54	cfs	
YVWD-A	1/26/2016	4.87	cfs	
YVWD-A	2/9/2016	4.08	cfs	
YVWD-A	2/23/2016	5.88	cfs	
YVWD-A	3/8/2016	6.44	cfs	
YVWD-A	3/22/2016	4.20	cfs	
YVWD-A	4/5/2016	2.30	cfs	
YVWD-A	4/19/2016	4.04	cfs	
YVWD-A	5/3/2016	4.00	cfs	
YVWD-A	5/17/2016	3.84	cfs	
YVWD-A	5/31/2016	3.02	cfs	
YVWD-A	6/28/2016	2.93	cfs	
YVWD-A	7/12/2016	1.94	cfs	
YVWD-A	7/26/2016	0.85	cfs	
YVWD-A	8/10/2016	1.55	cfs	
YVWD-A	8/23/2016	1.55	cfs	
YVWD-A	9/6/2016	2.08	cfs	
YVWD-A	9/20/2016	2.16	cfs	
YVWD-A	10/18/2016	3.47	cfs	
YVWD-A	11/1/2016	3.74	cfs	

Appendix C - Historical Stream Flow at Surface Water Monitoring Site YVWD-A in the San Timoteo Groundwater Management Zone

Site name	Date	Results	Units	Comments
YVWD-A	11/15/2016	3.36	cfs	
YVWD-A	11/30/2016	4.43	cfs	
YVWD-A	12/19/2016	4.05	cfs	
YVWD-A	1/10/2017	6.74	cfs	
YVWD-A	1/24/2017	26.52	cfs	
YVWD-A	2/8/2017	9.58	cfs	
YVWD-A	2/22/2017	5.65	cfs	
YVWD-A	3/9/2017	6.14	cfs	
YVWD-A	3/24/2017	6.93	cfs	
YVWD-A	4/4/2017	5.49	cfs	
YVWD-A	4/18/2017	4.44	cfs	
YVWD-A	5/2/2017	3.47	cfs	
YVWD-A	5/16/2017	4.50	cfs	
YVWD-A	5/30/2017	3.96	cfs	
YVWD-A	6/13/2017	3.05	cfs	
YVWD-A	6/27/2017	0.89	cfs	
YVWD-A	7/13/2017	0.38	cfs	
YVWD-A	8/1/2017	0.17	cfs	
YVWD-A	8/22/2017	0.83	cfs	
YVWD-A	9/12/2017	2.18	cfs	
YVWD-A	9/19/2017	3.83	cfs	
YVWD-A	9/27/2017	2.60	cfs	
YVWD-A	10/11/2017	1.88	cfs	
YVWD-A	10/27/2017	2.55	cfs	
YVWD-A	11/6/2017	2.30	cfs	
YVWD-A	11/20/2017	2.85	cfs	
YVWD-A	12/5/2017	3.23	cfs	
YVWD-A	12/21/2017	3.64	cfs	
YVWD-A	1/12/2018	6.45	cfs	
YVWD-A	2/2/2018	4.10	cfs	
YVWD-A	2/15/2018	1.16	cfs	
YVWD-A	3/5/2018	5.07	cfs	
YVWD-A	3/29/2018	4.03	cfs	
YVWD-A	4/12/2018	3.91	cfs	
YVWD-A	4/26/2018	3.47	cfs	
YVWD-A	5/8/2018	3.37	cfs	
YVWD-A	5/25/2018	4.01	cfs	
YVWD-A	6/8/2018	2.16	cfs	
YVWD-A	6/27/2018	2.68	cfs	
YVWD-A	7/10/2018	2.15	cfs	
YVWD-A	7/17/2018	1.38	cfs	

Appendix C - Historical Stream Flow at Surface Water Monitoring Site YVWD-A in the San Timoteo Groundwater Management Zone

Site name	Date	Results	Units	Comments
YVWD-A	7/31/2018	0.90	cfs	
YVWD-A	8/17/2018	3.55	cfs	
YVWD-A	8/29/2018	1.69	cfs	
YVWD-A	9/14/2018	1.26	cfs	
YVWD-A	9/25/2018	1.85	cfs	
YVWD-A	10/12/2018	2.39	cfs	
YVWD-A	10/24/2018	2.33	cfs	
YVWD-A	11/13/2018	1.55	cfs	
YVWD-A	11/24/2018	1.93	cfs	
YVWD-A	11/30/2018	11.20	cfs	
YVWD-A	12/21/2018	4.61	cfs	
YVWD-A	1/3/2019	4.56	cfs	
YVWD-A	1/18/2019	15.60	cfs	
YVWD-A	2/7/2019	9.00	cfs	
YVWD-A	2/18/2019	13.06	cfs	
YVWD-A	3/4/2019	7.43	cfs	
YVWD-A	3/18/2019	5.77	cfs	
YVWD-A	4/4/2019	5.85	cfs	
YVWD-A	4/24/2019	4.06	cfs	
YVWD-A	5/6/2019	6.38	cfs	
YVWD-A	5/25/2019	5.01	cfs	
YVWD-A	6/6/2019	4.56	cfs	
YVWD-A	6/20/2019	3.60	cfs	
YVWD-A	7/3/2019	3.46	cfs	
YVWD-A	7/16/2019	1.75	cfs	
YVWD-A	8/2/2019	1.44	cfs	
YVWD-A	8/15/2019	3.55	cfs	
YVWD-A	8/29/2019	3.41	cfs	
YVWD-A	9/11/2019	2.12	cfs	
YVWD-A	9/26/2019	3.78	cfs	
YVWD-A	10/8/2019	2.57	cfs	
YVWD-A	10/24/2019	2.20	cfs	
YVWD-A	11/6/2019	3.96	cfs	
YVWD-A	11/19/2019	4.75	cfs	
YVWD-A	12/5/2019	1.93	cfs	
YVWD-A	12/16/2019	3.74	cfs	
YVWD-A	1/2/2020	6.79	cfs	
YVWD-A	1/15/2020	4.16	cfs	
YVWD-A	1/29/2020	5.61	cfs	
YVWD-A	2/13/2020	6.16	cfs	
YVWD-A	2/27/2020	6.75	cfs	

Appendix C - Historical Stream Flow at Surface Water Monitoring Site YVWD-A in the San Timoteo Groundwater Management Zone

Site name	Date	Results	Units	Comments
YVWD-A	3/11/2020	8.89	cfs	
YVWD-A	3/25/2020	9.97	cfs	
YVWD-A	4/9/2020	15.46	cfs	
YVWD-A	4/23/2020	6.76	cfs	
YVWD-A	5/12/2020	6.57	cfs	
YVWD-A	5/20/2020	3.69	cfs	
YVWD-A	6/4/2020	3.88	cfs	
YVWD-A	6/18/2020	3.15	cfs	
YVWD-A	7/8/2020	1.37	cfs	
YVWD-A	7/16/2020	1.55	cfs	
YVWD-A	7/30/2020	1.47	cfs	
YVWD-A	8/13/2020	0.87	cfs	
YVWD-A	8/27/2020	1.41	cfs	
YVWD-A	9/10/2020	1.64	cfs	
YVWD-A	9/24/2020	1.46	cfs	
YVWD-A	9/28/2020	0.42	cfs	
YVWD-A	10/7/2020	0.84	cfs	
YVWD-A	10/22/2020	1.15	cfs	
YVWD-A	11/4/2020	0.94	cfs	
YVWD-A	12/3/2020	1.79	cfs	
YVWD-A	12/17/2020	1.95	cfs	
YVWD-A	12/29/2020	9.76	cfs	

Appendix C - Historical Stream Flow at Surface Water Monitoring Site YVWD-B in the San Timoteo Groundwater Management Zone

Site name	Date	Results	Units	Comments
YVWD-B	1/8/2009	8.22	cfs	
YVWD-B	1/15/2009	8.16	cfs	
YVWD-B	1/29/2009	6.99	cfs	
YVWD-B	2/12/2009	11.52	cfs	
YVWD-B	2/26/2009	11.84	cfs	
YVWD-B	3/12/2009	9.43	cfs	
YVWD-B	3/26/2009	9.42	cfs	
YVWD-B	4/9/2009	7.41	cfs	
YVWD-B	4/23/2009	6.83	cfs	
YVWD-B	5/6/2009	7.75	cfs	
YVWD-B	5/21/2009	5.71	cfs	
YVWD-B	6/4/2009	6.22	cfs	
YVWD-B	6/17/2009	7.15	cfs	
YVWD-B	7/8/2009	5.94	cfs	
YVWD-B	7/15/2009	3.28	cfs	
YVWD-B	7/29/2009	2.86	cfs	
YVWD-B	8/13/2009		cfs	insufficient
YVWD-B	8/26/2009	5.23	cfs	
YVWD-B	9/10/2009		cfs	no data-meters down
YVWD-B	9/23/2009	4.23	cfs	
YVWD-B	10/8/2009	5.88	cfs	
YVWD-B	10/23/2009	4.77	cfs	
YVWD-B	11/5/2009	5.77	cfs	over-estimated
YVWD-B	11/19/2009	5.80	cfs	
YVWD-B	12/3/2009	4.64	cfs	
YVWD-B	12/17/2009	5.56	cfs	
YVWD-B	1/7/2010	11.34	cfs	
YVWD-B	2/1/2010		cfs	streambed obliterated by rains; insufficient depth
YVWD-B	2/4/2010		cfs	multiple/braided channels of insufficient depth
YVWD-B	2/18/2010		cfs	multiple/braided channels of insufficient depth
YVWD-B	3/4/2010		cfs	multiple/braided channels of insufficient depth
YVWD-B	3/18/2010	15.38	cfs	
YVWD-B	3/31/2010	7.50	cfs	
YVWD-B	1/13/2011	9.96	cfs	
YVWD-B	1/27/2011	7.92	cfs	
YVWD-B	2/10/2011	7.46	cfs	

Appendix C - Historical Stream Flow at Surface Water Monitoring Site YVWD-B in the San Timoteo Groundwater Management Zone

Site name	Date	Results	Units	Comments
YVWD-B	2/24/2011	1.73	cfs	construction activities upstream-unknown effects
YVWD-B	3/10/2011	8.67	cfs	
YVWD-B	3/24/2011		cfs	rainy unsafe conditions
YVWD-B	4/7/2011	10.25	cfs	
YVWD-B	4/27/2011	8.61	cfs	
YVWD-B	5/5/2011	9.30	cfs	
YVWD-B	5/18/2011	12.03	cfs	
YVWD-B	6/2/2011	5.84	cfs	
YVWD-B	6/16/2011			too shallow- brineline const
YVWD-B	6/30/2011	6.34	cfs	
YVWD-B	7/14/2011	3.77	cfs	
YVWD-B	7/28/2011	4.69	cfs	
YVWD-B	8/11/2011	4.93	cfs	
YVWD-B	8/24/2011	3.44	cfs	
YVWD-B	9/8/2011	3.23	cfs	
YVWD-B	9/22/2011	2.81	cfs	
YVWD-B	10/6/2011	6.55	cfs	
YVWD-B	10/20/2011	4.14	cfs	
YVWD-B	11/3/2011	3.31	cfs	
YVWD-B	11/17/2011	4.77	cfs	
YVWD-B	12/1/2011	6.05	cfs	
YVWD-B	12/15/2011	10.12	cfs	
YVWD-B	12/29/2011	4.22	cfs	
YVWD-B	1/12/2012	7.23	cfs	
YVWD-B	1/26/2012	8.31	cfs	
YVWD-B	2/9/2012	6.84	cfs	
YVWD-B	2/23/2012	5.69	cfs	
YVWD-B	3/8/2012	7.07	cfs	
YVWD-B	3/22/2012	9.05	cfs	
YVWD-B	4/5/2012	5.83	cfs	
YVWD-B	4/19/2012		cfs	insufficient depth
YVWD-B	5/3/2012	8.38	cfs	
YVWD-B	5/17/2012	4.57	cfs	
YVWD-B	5/31/2012	4.62	cfs	
YVWD-B	6/14/2012	3.47	cfs	
YVWD-B	6/28/2012	2.93	cfs	
YVWD-B	7/12/2012	1.90	cfs	
YVWD-B	7/26/2012	3.96	cfs	
YVWD-B	8/9/2012	1.36	cfs	
YVWD-B	8/23/2012	4.52	cfs	

Appendix C - Historical Stream Flow at Surface Water Monitoring Site YVWD-B in the San Timoteo Groundwater Management Zone

Site name	Date	Results	Units	Comments
YVWD-B	9/5/2012	2.63	cfs	
YVWD-B	9/20/2012	2.54	cfs	
YVWD-B	10/4/2012	2.18	cfs	
YVWD-B	10/18/2012	3.62	cfs	
YVWD-B	11/1/2012	5.32	cfs	
YVWD-B	11/14/2012	5.50	cfs	
YVWD-B	11/29/2012	10.57	cfs	
YVWD-B	12/6/2012	4.34	cfs	
YVWD-B	12/27/2012	7.48	cfs	
YVWD-B	1/14/2013	15.05	cfs	
YVWD-B	1/31/2013		cfs	split channel
YVWD-B	2/7/2013	6.89	cfs	
YVWD-B	2/28/2013	7.58	cfs	
YVWD-B	3/12/2013	11.41	cfs	
YVWD-B	3/21/2013	6.65	cfs	
YVWD-B	4/4/2013	9.55	cfs	
YVWD-B	4/18/2013	5.95	cfs	
YVWD-B	5/1/2013	6.92	cfs	
YVWD-B	5/16/2013	3.58	cfs	
YVWD-B	5/30/2013	9.38	cfs	
YVWD-B	6/13/2013	4.44	cfs	
YVWD-B	6/27/2013	2.81	cfs	
YVWD-B	7/11/2013	1.98	cfs	
YVWD-B	7/25/2013	5.26	cfs	
YVWD-B	8/8/2013	3.81	cfs	
YVWD-B	8/22/2013	2.29	cfs	
YVWD-B	9/5/2013	6.45	cfs	
YVWD-B	9/19/2013	4.47	cfs	
YVWD-B	10/3/2013	5.30	cfs	
YVWD-B	10/17/2013	5.54	cfs	
YVWD-B	10/31/2013	6.82	cfs	
YVWD-B	11/14/2013	1.82	cfs	
YVWD-B	11/27/2013	5.31	cfs	
YVWD-B	12/13/2013	5.54	cfs	
YVWD-B	12/23/2013	6.61	cfs	
YVWD-B	1/7/2014	8.80	cfs	
YVWD-B	1/23/2014	5.70	cfs	
YVWD-B	1/30/2014	8.40	cfs	
YVWD-B	2/13/2014	4.90	cfs	
YVWD-B	2/27/2014	2.20	cfs	
YVWD-B	3/13/2014	6.90	cfs	

Appendix C - Historical Stream Flow at Surface Water Monitoring Site YVWD-B in the San Timoteo Groundwater Management Zone

Site name	Date	Results	Units	Comments
YVWD-B	3/27/2014	13.95	cfs	
YVWD-B	4/10/2014	6.22	cfs	
YVWD-B	4/23/2014	8.62	cfs	
YVWD-B	5/13/2014	6.04	cfs	
YVWD-B	5/22/2014	7.00	cfs	
YVWD-B	6/5/2014	4.19	cfs	
YVWD-B	6/12/2014		cfs	heat issues
YVWD-B	6/26/2014	4.66	cfs	
YVWD-B	7/10/2014	1.75	cfs	
YVWD-B	7/24/2014	1.55	cfs	
YVWD-B	8/7/2014	1.60	cfs	
YVWD-B	8/25/2014	4.52	cfs	
YVWD-B	9/11/2014	5.22	cfs	
YVWD-B	9/25/2014	2.82	cfs	
YVWD-B	10/1/2014	4.07	cfs	
YVWD-B	10/9/2014		cfs	meter down
YVWD-B	10/23/2014	2.44	cfs	
YVWD-B	11/6/2014	2.42	cfs	
YVWD-B	11/21/2014	8.41	cfs	
YVWD-B	12/18/2014		cfs	washed out
YVWD-B	1/8/2015	9.62	cfs	
YVWD-B	1/22/2015	10.68	cfs	
YVWD-B	2/5/2015	10.18	cfs	
YVWD-B	3/5/2015	6.21	cfs	
YVWD-B	3/19/2015	5.32	cfs	
YVWD-B	4/2/2015	4.96	cfs	
YVWD-B	4/16/2015	3.92	cfs	
YVWD-B	5/14/2015	7.47	cfs	
YVWD-B	5/29/2015	8.20	cfs	
YVWD-B	6/11/2015	3.44	cfs	
YVWD-B	6/25/2015	6.85	cfs	
YVWD-B	7/9/2015	4.54	cfs	
YVWD-B	9/3/2015	5.68	cfs	
YVWD-B	9/17/2015	10.78	cfs	
YVWD-B	10/1/2015	8.16	cfs	
YVWD-B	10/15/2015	6.97	cfs	
YVWD-B	10/29/2015	7.10	cfs	
YVWD-B	11/12/2015	8.26	cfs	
YVWD-B	12/2/2015	4.45	cfs	
YVWD-B	12/15/2015	9.96	cfs	
YVWD-B	12/29/2015	8.55	cfs	

Appendix C - Historical Stream Flow at Surface Water Monitoring Site YVWD-B in the San Timoteo Groundwater Management Zone

Site name	Date	Results	Units	Comments
YVWD-B	1/12/2016	13.71	cfs	
YVWD-B	1/26/2016	8.70	cfs	
YVWD-B	2/9/2016	5.88	cfs	
YVWD-B	2/23/2016	9.78	cfs	
YVWD-B	3/8/2016	11.05	cfs	
YVWD-B	3/22/2016	10.10	cfs	
YVWD-B	4/5/2016	7.24	cfs	
YVWD-B	4/19/2016	9.19	cfs	
YVWD-B	5/3/2016	9.13	cfs	
YVWD-B	5/17/2016	8.97	cfs	
YVWD-B	5/31/2016	9.9	cfs	
YVWD-B	6/28/2016	2.6213	cfs	
YVWD-B	7/12/2016	5.2056	cfs	
YVWD-B	7/26/2016	5.9128	cfs	
YVWD-B	8/10/2016	0.5115	cfs	
YVWD-B	8/23/2016	1.4011	cfs	
YVWD-B	9/6/2016	4.7401	cfs	
YVWD-B	9/20/2016	2.1936	cfs	
YVWD-B	10/18/2016	8.2476	cfs	
YVWD-B	11/1/2016	8	cfs	
YVWD-B	11/15/2016	3.34935	cfs	
YVWD-B	11/30/2016	8.5882	cfs	
YVWD-B	12/19/2016	10.2148	cfs	
YVWD-B	1/10/2017	14.932	cfs	
YVWD-B	1/24/2017	43.2851	cfs	
YVWD-B	2/8/2017	14.5836	cfs	
YVWD-B	2/22/2017	7.1359	cfs	
YVWD-B	3/9/2017	12.0462	cfs	
YVWD-B	3/24/2017		cfs	Equipment malfunction
YVWD-B	4/4/2017	10.821325	cfs	
YVWD-B	4/18/2017	10.55795	cfs	
YVWD-B	5/2/2017	3.45114	cfs	
YVWD-B	5/16/2017	9.5981	cfs	
YVWD-B	5/30/2017	3.63396	cfs	
YVWD-B	6/13/2017	7.4845	cfs	
YVWD-B	6/27/2017	6.3494	cfs	
YVWD-B	7/13/2017	0.123	cfs	
YVWD-B	8/1/2017	5.51328	cfs	
YVWD-B	8/22/2017	4.91355	cfs	
YVWD-B	9/12/2017	10.15704	cfs	
YVWD-B	9/19/2017	7.45393	cfs	

Appendix C - Historical Stream Flow at Surface Water Monitoring Site YVWD-B in the San Timoteo Groundwater Management Zone

Site name	Date	Results	Units	Comments
YVWD-B	9/27/2017	6.4329	cfs	
YVWD-B	10/11/2017	6.9738	cfs	
YVWD-B	10/27/2017	7.97104	cfs	
YVWD-B	11/6/2017	7.89426	cfs	
YVWD-B	11/20/2017	8.8374	cfs	
YVWD-B	12/5/2017	9.6292	cfs	
YVWD-B	12/21/2017	12.3958	cfs	
YVWD-B	1/12/2018	12.0876	cfs	
YVWD-B	2/2/2018	8.30324	cfs	
YVWD-B	2/15/2018	7.7165	cfs	
YVWD-B	3/5/2018	7.45514	cfs	
YVWD-B	3/29/2018	7.76424	cfs	
YVWD-B	4/12/2018	7.4214	cfs	
YVWD-B	4/26/2018	6.15296	cfs	
YVWD-B	5/8/2018	2.10408	cfs	
YVWD-B	5/25/2018	2.1684	cfs	
YVWD-B	6/8/2018	3.1787	cfs	
YVWD-B	6/27/2018	5.3239	cfs	
YVWD-B	7/10/2018	0.9435	cfs	
YVWD-B	7/17/2018	6.5857	cfs	
YVWD-B	7/31/2018	1.1595	cfs	
YVWD-B	8/17/2018	2.97696	cfs	
YVWD-B	8/29/2018	1.46927	cfs	
YVWD-B	9/14/2018	1.171	cfs	
YVWD-B	9/25/2018	1.614	cfs	
YVWD-B	10/12/2018	2.4908	cfs	
YVWD-B	10/24/2018	6.3746	cfs	
YVWD-B	11/13/2018	6.97609	cfs	
YVWD-B	11/24/2018	8.13549	cfs	
YVWD-B	11/30/2018	17.5127	cfs	
YVWD-B	12/21/2018	8.883	cfs	
YVWD-B	1/3/2019	8.81512	cfs	
YVWD-B	1/18/2019	25.9902	cfs	
YVWD-B	2/7/2019	9.5525	cfs	
YVWD-B	2/18/2019	20.25625	cfs	
YVWD-B	3/4/2019	-	cfs	Braided Stream - Unable to measure
YVWD-B	3/18/2019	-	cfs	Braided Stream - Unable to measure
YVWD-B	4/4/2019	9.1364	cfs	
YVWD-B	4/24/2019	8.4105	cfs	
YVWD-B	5/6/2019	7.7882	cfs	

Appendix C - Historical Stream Flow at Surface Water Monitoring Site YVWD-B in the San Timoteo Groundwater Management Zone

Site name	Date	Results	Units	Comments
YVWD-B2	6/6/2019	8.4373	cfs	YVWD-B2 is located downstream of the Alessandro Rd. bridge and replaces YVWD-B due to access issues
YVWD-B2	6/20/2019	6.5934	cfs	
YVWD-B2	7/3/2019	3.3874	cfs	
YVWD-B2	7/16/2019	0	cfs	Flow too low to measure (<0.2')
YVWD-B2	8/2/2019	3.09023	cfs	
YVWD-B2	8/15/2019	1.9852	cfs	
YVWD-B2	8/29/2019	7.1819	cfs	
YVWD-B2	9/11/2019	2.3346	cfs	
YVWD-B2	9/26/2019	2.88508	cfs	
YVWD-B2	10/8/2019	2.18196	cfs	
YVWD-B2	10/24/2019	2.9911	cfs	
YVWD-B2	11/6/2019	3.47614	cfs	
YVWD-B2	11/19/2019	8.9126	cfs	
YVWD-B2	12/5/2019	12.9526	cfs	
YVWD-B2	12/16/2019	8.04956	cfs	
YVWD-B2	1/2/2020	11.2724	cfs	
YVWD-B2	1/15/2020	9.5751	cfs	
YVWD-B2	1/29/2020	9.58772	cfs	
YVWD-B2	2/13/2020	4.0394	cfs	
YVWD-B2	2/27/2020	11.5547	cfs	
YVWD-B2	3/11/2020	14.2779	cfs	
YVWD-B2	3/25/2020	22.5751	cfs	
YVWD-B2	4/9/2020	22.158	cfs	
YVWD-B2	4/23/2020	16.4966	cfs	
YVWD-B2	5/12/2020	3.8715	cfs	
YVWD-B2	5/20/2020	4.56034	cfs	
YVWD-B2	6/4/2020	2.5513	cfs	
YVWD-B2	6/18/2020	8.08498	cfs	
YVWD-B2	7/8/2020	6.6597	cfs	
YVWD-B2	7/16/2020	5.9985	cfs	
YVWD-B2	7/30/2020	1.031	cfs	
YVWD-B2	8/13/2020	7.1653	cfs	
YVWD-B2	8/27/2020	4.7969	cfs	
YVWD-B2	9/10/2020	5.8338	cfs	
YVWD-B2	9/24/2020	2.1191	cfs	
YVWD-B2	9/28/2020	0.5768	cfs	
YVWD-B2	10/7/2020	3.63767	cfs	
YVWD-B2	10/22/2020	4.517	cfs	

Appendix C - Historical Stream Flow at Surface Water Monitoring Site YVWD-B in the San Timoteo Groundwater Management Zone

Site name	Date	Results	Units	Comments
YVWD-B2	11/4/2020	6.0488	cfs	
YVWD-B2	12/3/2020	3.1101	cfs	
YVWD-B2	12/17/2020	4.106	cfs	
YVWD-B2	12/29/2020	13.7363	cfs	

**Appendix C - Historical Stream Flow at Surface Water Monitoring Sites YVWD-C and YVWD-
in the San Timoteo Groundwater Management Zone**

WE ID		Results	Units	Comments
YVWD-C	1/8/2009	9.47	cfs	
YVWD-C	1/15/2009	8.33	cfs	
YVWD-C	1/29/2009	8	cfs	
YVWD-C	2/12/2009		cfs	inaccessible
YVWD-C	2/26/2009		cfs	inaccessible
YVWD-C	3/12/2009	7.07	cfs	
YVWD-C	3/13/2009	8.12	cfs	
YVWD-C	4/9/2009	7.12	cfs	
YVWD-C	4/23/2009	5.44	cfs	
YVWD-C	5/6/2009	7.28	cfs	
YVWD-C	5/21/2009	4.44	cfs	
YVWD-C	6/4/2009	0.83	cfs	
YVWD-C	6/17/2009		cfs	inaccessible (lock cut)
YVWD-C	7/8/2009		cfs	insufficient
YVWD-C	7/15/2009		cfs	insufficient
YVWD-C	7/29/2009		cfs	insufficient
YVWD-C	8/13/2009		cfs	insufficient
YVWD-C	8/26/2009		cfs	insufficient
YVWD-C	9/10/2009		cfs	no flow- diverted
YVWD-C	9/23/2009		cfs	no flow- diverted
YVWD-C	10/8/2009	1.58	cfs	
YVWD-C	10/23/2009		cfs	insufficient depth
YVWD-C	11/5/2009	1.71	cfs	
YVWD-C	11/19/2009	2.4	cfs	
YVWD-C	12/3/2009	2.87	cfs	
YVWD-C	12/17/2009	7.29	cfs	
YVWD-C	1/7/2010	8.2	cfs	
YVWD-C	2/1/2010		cfs	diverted for spreading
YVWD-C	2/4/2010		cfs	diverted for spreading
YVWD-C	2/18/2010		cfs	diverted for spreading
YVWD-C	3/4/2010		cfs	diverted for spreading
YVWD-C	3/18/2010		cfs	multiple/braided channels of insufficient depth
YVWD-C	3/31/2010		cfs	multiple/braided channels of insufficient depth
YVWD-C	1/13/2011		cfs	access denied by SBCFCD
YVWD-C	1/27/2011		cfs	braided: many shallow channels
YVWD-C	2/10/2011	8.56	cfs	
YVWD-C	2/24/2011		cfs	braided: many shallow channels
YVWD-C	3/10/2011		cfs	braided: many shallow channels
YVWD-C	3/24/2011		cfs	rainy unsafe conditions

**Appendix C - Historical Stream Flow at Surface Water Monitoring Sites YVWD-C and YVWD-
in the San Timoteo Groundwater Management Zone**

WE ID		Results	Units	Comments
YVWD-C	4/7/2011	10.97	cfs	
YVWD-C	4/27/2011	7.42	cfs	
YVWD-C	5/5/2011	3.6	cfs	
YVWD-C	5/18/2011		cfs	numerous shallow braids
YVWD-C	6/2/2011		cfs	numerous shallow braids
YVWD-C	6/16/2011	1.56	cfs	
YVWD-C	6/30/2011			insufficient
YVWD-C	7/14/2011			insufficient
YVWD-C	7/28/2011			insufficient
YVWD-C	8/11/2011	1.7	cfs	
YVWD-C	8/24/2011	1.36	cfs	
YVWD-C	9/8/2011			insufficient
YVWD-C	9/22/2011			insufficient
YVWD-C	10/6/2011			insufficient
YVWD-C	10/20/2011			insufficient
YVWD-C	11/3/2011			insufficient
YVWD-C	11/17/2011	4.51	cfs	
YVWD-C	12/1/2011			insufficient
YVWD-C	12/15/2011			numerous shallow braids
YVWD-C	12/29/2011			numerous shallow braids
YVWD-C	1/12/2012		cfs	insufficient depth
YVWD-C	1/26/2012		cfs	insufficient depth
YVWD-C	2/9/2012		cfs	insufficient depth
YVWD-C	2/23/2012		cfs	insufficient depth
YVWD-C	3/8/2012		cfs	insufficient depth
YVWD-C	3/22/2012		cfs	insufficient depth
YVWD-C	4/5/2012		cfs	insufficient depth
YVWD-C	4/19/2012		cfs	insufficient depth
YVWD-C	5/3/2012		cfs	insufficient depth
YVWD-C	5/17/2012		cfs	insufficient depth
YVWD-C	5/31/2012		cfs	insufficient depth
YVWD-C	6/14/2012		cfs	insufficient depth
YVWD-C	6/28/2012		cfs	insufficient depth
YVWD-C	7/12/2012		cfs	insufficient depth
YVWD-C	7/26/2012		cfs	insufficient depth
YVWD-C	8/9/2012		cfs	insufficient depth
YVWD-C	8/23/2012		cfs	insufficient depth
YVWD-C	9/5/2012		cfs	insufficient depth
YVWD-C	9/20/2012		cfs	insufficient depth
YVWD-C	10/4/2012		cfs	insufficient depth
YVWD-C	10/18/2012	2.5	cfs	

**Appendix C - Historical Stream Flow at Surface Water Monitoring Sites YVWD-C and YVWD-C
in the San Timoteo Groundwater Management Zone**

WE ID		Results	Units	Comments
YVWD-C	11/1/2012	1.4	cfs	
YVWD-C	11/14/2012		cfs	insufficient depth
YVWD-C	11/29/2012	4.51	cfs	
YVWD-C	12/6/2012	2.87	cfs	one was channel too shallow
YVWD-C	12/27/2012		cfs	braided
YVWD-C	1/14/2013		cfs	braided
YVWD-C	1/31/2013		cfs	braided
YVWD-C	2/7/2013		cfs	braided
YVWD-C	2/28/2013		cfs	braided
YVWD-C	3/12/2013		cfs	access denied- flood control
YVWD-C	3/21/2013		cfs	access denied- flood control
YVWD-C	4/4/2013		cfs	access denied- flood control
YVWD-C	4/18/2013		cfs	access denied- flood control
YVWD-C	5/1/2013	7.99	cfs	
YVWD-C	5/16/2013		cfs	insufficient depth
YVWD-C	5/30/2013	7.44	cfs	
YVWD-C	6/13/2013		cfs	insufficient depth
YVWD-C	6/27/2013		cfs	insufficient depth
YVWD-C	7/11/2013		cfs	insufficient depth
YVWD-C	7/25/2013		cfs	insufficient depth
YVWD-C	8/8/2013		cfs	insufficient depth
YVWD-C	8/22/2013		cfs	insufficient depth
YVWD-C	9/5/2013		cfs	insufficient depth
YVWD-C	9/19/2013		cfs	insufficient depth
YVWD-C	10/3/2013		cfs	braided
YVWD-C	10/17/2013	1.95	cfs	
YVWD-C	10/31/2013		cfs	no access
YVWD-C	11/14/2013		cfs	no access
YVWD-C	11/27/2013	10.18	cfs	
YVWD-C	12/13/2013		cfs	braided
YVWD-C	12/23/2013	6.49	cfs	
YVWD-C	1/7/2014	6.4	cfs	
YVWD-C	1/23/2014	8.2	cfs	
YVWD-C	1/30/2014	9.6	cfs	
YVWD-C	2/13/2014		cfs	no access
YVWD-C	2/27/2014		cfs	no access- flood control
YVWD-C	3/13/2014		cfs	multiple braided channels of insufficient depth
YVWD-C	3/27/2014		cfs	no access- flood control
YVWD-C	4/10/2014		cfs	shallow braids
YVWD-C	4/23/2014		cfs	shallow braids

**Appendix C - Historical Stream Flow at Surface Water Monitoring Sites YVWD-C and YVWD-Z
in the San Timoteo Groundwater Management Zone**

WE ID		Results	Units	Comments
YVWD-C	5/13/2014	6.074	cfs	
YVWD-C	5/22/2014		cfs	insuficient
YVWD-C	6/5/2014	1.228	cfs	
YVWD-C	6/12/2014		cfs	insuficient
YVWD-C	6/26/2014	1.644	cfs	
YVWD-C	7/10/2014		cfs	braided
YVWD-C	7/24/2014	1.006	cfs	
YVWD-C	8/7/2014		cfs	insuficient
YVWD-C	8/25/2014		cfs	braided
YVWD-C	9/11/2014		cfs	braided
YVWD-C	9/25/2014		cfs	braided
YVWD-C	10/1/2014		cfs	braided
YVWD-C	10/9/2014		cfs	meter down
YVWD-C	10/23/2014		cfs	braided & insufficient
YVWD-C	11/6/2014		cfs	ribbons
YVWD-C	11/21/2014		cfs	braids/ribbons
YVWD-C	12/18/2014		cfs	braided & choked with deadwood
YVWD-Z	10/1/2015	3.8864	cfs	
YVWD-Z	10/15/2015	4.7935	cfs	
YVWD-Z	10/29/2015	5.6073	cfs	
YVWD-Z	11/12/2015	6.0739	cfs	
YVWD-Z	12/2/2015	5.0121	cfs	
YVWD-Z	12/15/2015	10.7499	cfs	
YVWD-Z	12/29/2015	6.127	cfs	
YVWD-Z	1/12/2016	9.6734	cfs	
YVWD-Z	1/26/2016	8.6185	cfs	
YVWD-Z	2/1/2016	6.5676	cfs	
YVWD-Z	2/9/2016	6.9514	cfs	
YVWD-Z	2/23/2016	7.9479	cfs	
YVWD-Z	3/8/2016	5.8548	cfs	
YVWD-Z	3/22/2016	2.14766	cfs	
YVWD-Z	4/5/2016	5.7997	cfs	
YVWD-Z	4/11/2016	12.8176	cfs	
YVWD-Z	4/19/2016	2.327	cfs	
YVWD-Z	5/3/2016	6.7873	cfs	
YVWD-Z	5/17/2016	5.3591	cfs	
YVWD-Z	5/31/2016	4.5345	cfs	
YVWD-Z	6/28/2016	2.1093	cfs	
YVWD-Z	7/12/2016	4.1618	cfs	
YVWD-Z	7/26/2016	1.0317	cfs	
YVWD-Z	8/10/2016	0.5476	cfs	

**Appendix C - Historical Stream Flow at Surface Water Monitoring Sites YVWD-C and YVWD-Z
in the San Timoteo Groundwater Management Zone**

WE ID		Results	Units	Comments
YVWD-Z	8/23/2016	0.21225	cfs	
YVWD-Z	9/6/2016	0.2988	cfs	
YVWD-Z	9/20/2016	0.6195	cfs	
YVWD-Z	10/18/2016	1.12992	cfs	
YVWD-Z	11/1/2016	3.476	cfs	
YVWD-Z	11/15/2016	1.891	cfs	
YVWD-Z	11/30/2016	6.45084	cfs	
YVWD-Z	12/19/2016	11.936	cfs	
YVWD-Z	1/10/2017	11.4559	cfs	
YVWD-Z	1/24/2017	49.5452	cfs	
YVWD-Z	2/8/2017	11.7065	cfs	
YVWD-Z	2/22/2017		cfs	Not analyzed for safety, high flow.
YVWD-Z	3/9/2017	11.693	cfs	
YVWD-Z	3/24/2017		cfs	Equipment malfunction
YVWD-Z	4/4/2017	7.8135	cfs	
YVWD-Z	4/18/2017	3.2257	cfs	
YVWD-Z	5/2/2017	4.5212	cfs	
YVWD-Z	5/16/2017	11.2709	cfs	
YVWD-Z	5/30/2017	4.3802	cfs	
YVWD-Z	6/13/2017	0	cfs	Low flow (<0.2')
YVWD-Z	6/27/2017	0.25507	cfs	Low flow (<0.2')
YVWD-Z	7/13/2017	0	cfs	Low flow (<0.2')
YVWD-Z	8/1/2017	0	cfs	Low flow (<0.2')
YVWD-Z	8/22/2017	0.322	cfs	
YVWD-Z	9/12/2017	0.386	cfs	
YVWD-Z	9/19/2017	3.8858	cfs	
YVWD-Z	9/27/2017	2.508	cfs	
YVWD-Z	10/11/2017	3.635	cfs	
YVWD-Z	10/27/2017	2.42847	cfs	Flood control construction
YVWD-Z	11/6/2017	5.7223	cfs	Flood control construction
YVWD-Z	11/20/2017	3.06328	cfs	Flood control construction
YVWD-Z	12/5/2017	4.7212	cfs	Flood control construction
YVWD-Z	12/21/2017	5.008	cfs	
YVWD-Z	1/12/2018	10.0371	cfs	
YVWD-Z	2/2/2018	12.3852	cfs	
YVWD-Z	2/15/2018	11.5875	cfs	
YVWD-Z	3/5/2018	6.71473	cfs	
YVWD-Z	3/29/2018	3.28311	cfs	
YVWD-Z	4/12/2018	1.8507	cfs	
YVWD-Z	4/26/2018	1.9344	cfs	
YVWD-Z	5/8/2018	2.84614	cfs	

**Appendix C - Historical Stream Flow at Surface Water Monitoring Sites YVWD-C and YVWD-Z
in the San Timoteo Groundwater Management Zone**

WE ID		Results	Units	Comments
YVWD-Z	5/25/2018	3.64408	cfs	
YVWD-Z	6/8/2018	3.32695	cfs	
YVWD-Z	6/27/2018	1.8136	cfs	
YVWD-Z	7/10/2018	1.0722	cfs	
YVWD-Z	7/17/2018	0.9804	cfs	
YVWD-Z	7/31/2018	0.608	cfs	
YVWD-Z	8/17/2018	0.5654	cfs	
YVWD-Z	8/29/2018	0.1842	cfs	
YVWD-Z	9/14/2018	0.2206	cfs	
YVWD-Z	9/25/2018	0.7447	cfs	
YVWD-Z	10/12/2018	2.3761	cfs	
YVWD-Z	10/24/2018	4.1934	cfs	
YVWD-Z	11/13/2018	3.5232	cfs	
YVWD-Z	11/24/2018	4.3587	cfs	
YVWD-Z	11/30/2018	--	cfs	
YVWD-Z	12/21/2018	14.9871	cfs	
YVWD-Z	1/3/2019	7.21777	cfs	
YVWD-Z	1/18/2019	33.042	cfs	
YVWD-Z	2/7/2019	10.5423	cfs	
YVWD-Z	2/18/2019	20.8725	cfs	
YVWD-Z	3/4/2019	-	cfs	Dangerous Conditions, flow too deep and fast to enter streambed
YVWD-Z	3/18/2019	14.0034	cfs	
YVWD-Z	4/4/2019	6.9674	cfs	
YVWD-Z	4/24/2019	5.9152	cfs	
YVWD-Z	5/6/2019	11.8752	cfs	
YVWD-Z	5/25/2019	6.1638	cfs	
YVWD-Z	6/6/2019	2.85725	cfs	
YVWD-Z	6/20/2019	4.2366	cfs	
YVWD-Z	7/3/2019	0	cfs	Flow too low to measure (<0.2')
YVWD-Z	7/16/2019	0.8064	cfs	
YVWD-Z	8/2/2019	0.4002	cfs	
YVWD-Z	8/15/2019	0	cfs	Flow too low to measure (<0.2')
YVWD-Z	8/29/2019	3.2968	cfs	
YVWD-Z	9/11/2019	0.2255	cfs	
YVWD-Z	9/26/2019	1.45475	cfs	
YVWD-Z	10/8/2019	0.80262	cfs	
YVWD-Z	10/24/2019	1.5549	cfs	
YVWD-Z	11/6/2019	4.90743	cfs	
YVWD-Z	11/19/2019	7.2307	cfs	
YVWD-Z	12/5/2019	13.2855	cfs	

**Appendix C - Historical Stream Flow at Surface Water Monitoring Sites YVWD-C and YVWD-Z
in the San Timoteo Groundwater Management Zone**

WE ID		Results	Units	Comments
YVWD-Z	12/16/2019	6.4555	cfs	
YVWD-Z	1/2/2020	5.35234	cfs	
YVWD-Z	1/15/2020	6.51937	cfs	
YVWD-Z	1/29/2020	7.21413	cfs	
YVWD-Z	2/13/2020	3.5824	cfs	
YVWD-Z	2/27/2020	11.02176	cfs	
YVWD-Z	3/11/2020	10.27326	cfs	
YVWD-Z	3/25/2020	14.90986	cfs	
YVWD-Z	4/9/2020	-	cfs	Dangerous Conditions, flow too deep and fast to enter streambed
YVWD-Z	4/23/2020	10.2816	cfs	
YVWD-Z	5/12/2020	2.57844	cfs	
YVWD-Z	5/20/2020	4.399908	cfs	
YVWD-Z	6/4/2020	0.9401	cfs	
YVWD-Z	6/18/2020	1.24184	cfs	
YVWD-Z	7/8/2020	1.14169	cfs	
YVWD-Z	7/16/2020	0	cfs	No Flow
YVWD-Z	7/30/2020	1.51728	cfs	
YVWD-Z	8/13/2020	0	cfs	No Flow
YVWD-Z	8/27/2020	0	cfs	No Flow
YVWD-Z	9/10/2020	2.36256	cfs	
YVWD-Z	9/24/2020	0.3871	cfs	
YVWD-Z	9/28/2020	1.0409	cfs	
YVWD-Z	10/7/2020	0.6876	cfs	
YVWD-Z	10/22/2020	3.4208	cfs	
YVWD-Z	12/3/2020	4.8364	cfs	
YVWD-Z	12/17/2020	4.8364	cfs	
YVWD-Z	12/29/2020	13.88472	cfs	

APPENDIX D

**Field Forms and Field Parameters for Surface Water
Monitoring in the San Timoteo Groundwater Management
Zone in 2020**

Site: yvwd-A

Date: _____

Weather Flow Visuals

Conditions: N-0-4 3-4 4

Total width of creek 10.0

Sum of segment's widths 10.0

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
1142	1.0	0.2	-		6.7881
	1.0	0.2	0.917	0.1834	
	1.0	0.2	2.076	0.4152	
	1.0	0.3	3.376	1.0128	
	1.0	0.3	3.585	1.0755	
	1.0	0.3	3.502	1.0506	
	1.0	0.4	2.960	1.184	
	1.0	0.5	2.528	1.264	
	1.0	0.2	1.904	0.3808	
	1.0	0.2	1.109	0.2218	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1140	12.2	8.23	684	10.45	N
1148	12.3	8.21	672	10.22	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F

Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F

Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: yvwd-B
 Date: 1/2/2020

Weather: N-0-4 Flow: 3-4 Visuals: 3
 Conditions: N-0-4 3-4 3

Total width of creek 10.0 Sum of segment's widths 10.0

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
1105	1.0	-0.2	-		11.2724
	1.0	0.3	2.113	0.6339	
	1.0	0.4	3.585	1.434	
	1.0	0.5	4.236	2.118	
	1.0	0.5	4.188	2.094	
	1.0	0.5	3.873	1.9365	
	1.0	0.4	2.551	1.0204	
	1.0	0.4	2.160	0.864	
	1.0	0.4	2.313	0.9252	
	1.0	0.2	1.232	0.2464	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1104	13.9	8.26	679	9.49	N
1110	14.1	8.22	672	9.59	N
1112	14.1	8.24	670	9.53	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow
 Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud
 Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
 Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: gvwd-2

Date: 1/2/2020

Weather Flow Visuals

Conditions: N-0-4 3-4 3

Total width of creek 10.4

Sum of segment's widths 10.4

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
1035	1.0	0.3	1.315	0.3945	5.37038
	1.0	0.4	1.627	0.6748	
	1.0	0.5	1.952	0.976	
	1.0	0.4	2.00	0.8	
	1.0	0.4	1.656	0.6624	
	1.0	0.3	1.472	0.4416	
	1.0	0.3	1.396	0.4188	
	1.0	0.3	1.396	0.4188	
	1.2	0.3	1.376	0.4928 0.4954	
	1.2	0.2	0.367	0.66808	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1030	13.4	8.7	762	11.73	N
1034	13.5	8.27	759	10.54	N
1044	13.8	8.30	768	10.27	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F

Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F

Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Clinical Lab of San Bernardino, Inc.

Chain of Custody

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

WO _____

Client		Destination Laboratory													Analysis Requested						Comments									
Yucaipa Valley Water District		880 W. County Line Road Yucaipa, CA 92399													<input checked="" type="checkbox"/> Clinical Grand Terrace / ELAP 1088 <input type="checkbox"/> Clinical Lompoc / ELAP 1678 <input type="checkbox"/> Other: _____															
Address:		880 W. County Line Road Yucaipa, CA 92399																												
Client Contact:		Ashley Gibson																												
Phone No.:		909-560-1370													FAX No.:															
System No.:		909-795-0402																												
Project:		Max Benefits - San Timoteo GMZ																												
Sampled By:		Madeline Bue																												
Comments:		Email results to: Lina Robert (lrobert@yvwd.dst.ca.us) and Steven Stuart (sstuart@dudek.com)																												
Date	Time	Sample Identification	Container ID	Matrix	Sample Type	No. of Preserved Cont.										Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO ₃ , CO ₃ , and OH)	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Turn Around Time (TAT)			
						Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC															
11/20/00	11:30	YVWD-A 3EA53		SW		X										X	X	X	X	X	X	X	X	X	X	X			10	
11/20/00	11:04	YVWD-B 3EA54		SW		X										X	X	X	X	X	X	X	X	X	X	X			10	
11/20/00	10:30	YVWD-Z 3EA56		SW		X										X	X	X	X	X	X	X	X	X	X	X			10	
Relinquished By (Sign)		Madeline Bue													Received By (Sign)						Print Name / Company									
Date / Time																														
Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other																														
Use for Bacteria Samples / Sample Type: 1-Route 2-Repeat 3-Replacement 4-Special D-Distribution W-Well																														
TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush																														
Lompoc Lab Receipt Temp.: _____ °C																														
Shipped Via: <input type="checkbox"/> Fed Ex <input type="checkbox"/> Golden State Overnight <input type="checkbox"/> UPS <input type="checkbox"/> OnTrac <input type="checkbox"/> USPS <input type="checkbox"/> Other																														
Condition: <input type="checkbox"/> On Wet Ice <input type="checkbox"/> On Dry Ice <input type="checkbox"/> In tact <input type="checkbox"/> Custody Seals																														
Samples / COC Checked By: _____																														
Work Order Logged By: _____																														
Clinical Lab Receipt Temp.: _____ °C																														

Site: gvwd-A
 Date: 1/15/2020

Weather: N-1-4 Flow: 3-4 Visuals: 2
 Conditions: N-1-4 3-4 2

Total width of creek 11

Sum of segment's widths 11.0

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1.0	-0.2			4.1576
	1.0	-0.2			
	1.0	-0.2			
	1.0	0.2	2.181	0.4362	
	1.0	0.2	2.076	0.4152	
	1.0	0.2	2.24	0.4480	
	1.0	0.2	2.384	0.4768	
	1.0	0.2	2.288	0.4576	
	1.0	0.3	2.384	0.7152	
	1.0	0.4	2.480	0.9920	
	1.0	0.2	1.083	0.2166	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1350	13.2	8.16	692	10.52	N
1356	13.2	8.17	674	9.94	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F

Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F

Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: gwwd-13

Weather Flow Visuals

Date: 11/5/2020

Conditions: N-1-3 3-4 3-4

Total width of creek 14.0

Sum of segment's widths 14.0

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1.0 1.0	-0.2			10.9161
	1.0	-0.2			
	1.0	0.2	1.113	0.2226	
	1.0	0.3	2.349	0.7047	
	1.0	0.4	2.672	1.0688	
	1.0	0.4	3.153	1.2612	
	1.0	0.4	3.873	1.5492	
	1.0	0.4	3.969	1.5876	
	1.0	0.5	3.758	1.879	
	1.0	0.4	1.472	0.5888	
	1.0	0.2	0.977	0.1954	
	1.0	0.3	1.726	0.5178	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1150	14.7	8.11	733	9.46	N
1155	14.8	8.14	692	9.46	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
 3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
 Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

	DEPTH (Feet) d	VELOCITY ft/s
1.0	0.4	2.229 0.8916
1.0	0.3	1.498 0.4494

Site: yvwd-2

Weather Flow Visuals

Date: 11/5/2020

Conditions: N-0-3 3-4 3

Total width of creek 7.7

Sum of segment's widths 7.7

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	2.7 1.1	0.402	0.967	0.21274	6.51937
	1.1	0.3	1.457	0.48081	
	1.1	0.6	2.277	1.50282	
	1.1	0.6	2.218	1.46388	
	1.1	0.6	2.372	1.56552	
	1.1	0.5	2.076	1.1418	
	1.1	0.2	0.69	0.1518	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1116	12.2	8.09	725	11.61	N
1124	12.6	9.02	709	10.04	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
 Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Clinical Lab of San Bernardino, Inc. Chain of Custody

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

WO _____

Client		Destination Laboratory		Analysis Requested		Turn Around Time (TAT)
Yucaipa Valley Water District 880 W. County Line Road Yucaipa, CA 92399		[X] Clinical Grand Terrace / ELAP 1088 [] Clinical Lompoc / ELAP 1678 [] Other:		Fluoride (EPA 300.0) Chloride (EPA 300.0) pH (SM 4500H+B) Specific Conductance (SM 2510B) Sulfate (EPA 300.0) Ca, Mg, K, Na (EPA 200.7) Alkalinity (inc. HCO3, CO3, and OH) Ammonia-N (EPA 350.1) Nitrite-N (EPA 300.0) Nitrate-N (EPA 300.0) Total Dissolved Solids (SM 2540C)		
Client Contact: Ashley Gibson		No. of Preserved Cont.				
Phone No.: 909-560-1370 FAX No.: 909-795-0402		ChlorAC				
System No.:		ZnC4H6O4				
Project: Max Benefits - San Timoteo GMZ		Na2SO3				
Sampled By: <i>Madeline Bata</i>		NaOH				
Comments:		HCl				
Email results to: Lina Robert (lrobert@ywwd.dst.ca.us) and Steven Stuart (sstuart@dudek.com)		HNO3				
		C6H8O6				
		NH4Cl				
		Na2S2O3				
		Unpreserved				
		Sample Type				
		Matrix				
		Container ID				
Date	Time	Sample Identification		Matrix	Sample Type	Unpreserved
11/15/20	1350	YVWD-A 3EA53		SW		X
11/15/20	1150	YVWD-B 3EA54		SW		X
11/15/20	1116	YVWD-Z 3EA56		SW		X
Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush						
Relinquished By (Sign)		Print Name / Company		Date / Time		Received By (Sign)
<i>MS</i>		<i>Madeline Bata</i>				
(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C						
Shipped Via: [] Fed Ex [] Golden State Overnight [] UPS [] OnTrac [] USPS [] Other						
Condition: [] On Wet Ice [] On Blu Ice [] Intact [] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____						
Receipt Comments: _____ Clinical Lab Receipt Temp.: _____ °C						

FIELD CALIBRATION RECORD

Project Name: Yucaipa Valley Water District - San Timoteo Creek
 Date of Field Calibration: 1/15/2020
 Project Number: 11889
 Field Location: Yucaipa area, CA
 Field Crew: Madeline Bwa
 Weather Conditions: Sunny
 Parameter Sensor:
 Instr. Type: YSI
 Model: 556
 Temp (using thermometer): 19.5
 Temp (using meter): 19.5

		Parameters / Field Measurements				General Description of Standards	
		pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (uS/cm)	Percent Error
Standard Solution Values	1	7.0		707.5	←	was just used	
	2	7.0				1327	
	3	10.0					
Pre-calibration Readings for Each Standard	1	4.00		711.5		1331	
	2	6.91					
	3	10.08					
Post-calibration Readings for Each Standard	1						
	2						
	3						

Site: yvwd - A

Date: 1/29/2020

Weather Flow Visuals

Conditions: y-0-4 34 3

Total width of creek 8.8

Sum of segment's widths _____

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
		0.2			5.098 x 1.1 5.6078
		0.2			
	1.1	0.2	1.232	0.2464	
	1.1	0.3	1.904	0.5712	
	1.1	0.4	2.336	0.9344	
	1.1	0.4	3.424	1.3696	
	1.1	0.4	3.153	1.2612	
	1.1	0.5	2.384	0.7152	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1126	12.7	8.08	790	10.41	N
1130	12.7	8.02	793	9.95	N
1134	12.8	8.12	795	9.86	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: yvwd-B

Date: 1/29/2020

Weather Flow Visuals

Conditions: Y-0-4 34 4

Total width of creek 10 + 9.1

Sum of segment's widths 9.1

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1.0	0.2	1.197	0.2394	9.5877
	1.0	0.3	2.400	0.7224	
	1.0	0.2	1.800	0.3616	
	1.0	0.3 0.4	3.882	1.5528	
	1.0	0.4	4.209	1.6836	
	1.0	0.4	3.949	1.5796	
	1.0	0.4	4.331	1.7324	
	1.0	0.4	3.137	1.2548	
	1.1	0.2	2.096	0.4612	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1057	14.8	8.03	671	9.13	N
1103	14.9	8.06	660	9.21	N
1106	15.0	8.08	677	9.20	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
 Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: Yard - Z

Date: 1/29/2020

Weather Flow Visuals

Conditions: Y-0-4 3 3

Total width of creek 8.8

Sum of segment's widths _____

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
1033	1.1	0.2	0.848	0.1696	6.5583 x 1.1 7.21413
1033	1.1	0.4	0.896	0.3584	
1035	1.1	0.6	2.503	1.5018	
1035	1.1	0.7	2.599	1.8193	
1036	1.1	0.6	2.420	1.452	
1036	1.1	0.4	1.895	0.758	
1038	1.1	0.3	1.664	0.4992	
	1.1	0.2			

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1027	12.3	8.05	729	11.29	N
1032	12.4	7.83	727	10.46	N
1038	12.5	7.88	727	10.39	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

FIELD CALIBRATION RECORD

Project Name: Yucaipa Valley Water District - San Timoteo Creek Date of Field Calibration: 1/29/2020
 Project Number: 11889 Field Location: Yucaipa area, CA
 Field Crew: Madeleine Blair Weather Conditions: Sunny/Windy
 Parameter Sensor: _____
 Instr. Type: YSI
 Model: 556
 Signature: [Signature] Temp (using thermometer): 18.9 Temp (using meter): 18.3

		Parameters / Field Measurements				General Description of Standards		
		pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (uS/cm)	Percent Error	calibration solution, supplier, exp. Date
Standard Solution Values	1	4.0		705.5		1413		
	2	7.0		705.5				
	3	10.0						
Pre-calibration Readings for Each Standard	1	4.07		711.7		1494		
	2	7.03		98.7				
	3	9.94						
Post-calibration Readings for Each Standard	1			705		1416		
	2			91.6				
	3							

Site: YVWD-A

Date: 2-13-20

Weather Flow Visuals

Conditions: N-041 3 2

Total width of creek 9.9

Sum of segment's widths 9.9

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1.1	<0.2			6.157
	1.1	0.2	1.538	0.338	
	1.1	0.3	2.672	0.882	
	1.1	0.4	2.672	1.176	
	1.1	0.3	2.302	0.760	
	1.1	0.4	3.122	1.374	
	1.1	0.2	2.960	0.651	
	1.1	0.2	2.599	0.572	
	1.1	0.2	1.838	0.404	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1204	14.4	8.31	465.1	9.70	Y
1206	14.5	8.29	467.6	9.68	N
1208	14.5	8.29	404.5	9.67	N

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
 Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: Yrwd-B

Date: 2/13/2020

Weather: N-0-4 Flow: 3 Visuals: 3

Total width of creek 9

Sum of segment's widths 9

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1	0.2	1.020	0.204	4.039
	1	0.2	1.356	0.271	
	1	0.2	1.093	0.219	
	1	0.3	2.028	0.608	
	1	0.3	2.646	0.794	
	1	0.4	1.505	0.602	
	1	0.4	1.971	0.788	
	1	0.2	1.895	0.379	
	1	0.2	0.870	0.174	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1135	17.0	8.18	511.1	9.04	N
1137	17.0	8.19	508.7	9.04	N
1139	17.0	8.21	520.3	8.89	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft

3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F

Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F

Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: yuvud - 2

Date: 2/13/2020

Weather: N-0-4 Flow: 3 Visuals: 3

Total width of creek 7.0

Sum of segment's widths 7.0

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1.0	0.2	0.655	0.131	3,583
	1.0	0.2	1.220	0.244	
	1.0	0.4	2.123	0.849	
	1.0	0.4	2.171	0.868	
	1.0	0.4	2.384	0.954	
	1.0	0.3	1.712	0.514	
	1.0	0.2	0.113	0.023	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1049	14.9	7.85	750	9.79	N
1051	15.1	7.88	729	10.55	N
1053	15.1	7.93	721	9.82	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F

Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F

Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

FIELD CALIBRATION RECORD

Project Name: Yucaipa Valley Water District - San Timoteo Creek
 Project Number: 11889
 Field Crew: Madeline Blum
 Signature: *MA*

Date of Field Calibration: 2/13/2020
 Field Location: Yucaipa area, CA
 Weather Conditions: Sunny
 Parameter Sensor:
 Instr. Type: YSI
 Model: 556

Temp (using thermometer): 19.1 Temp (using meter): 19.1

		Parameters / Field Measurements				General Description of Standards	
		pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (uS/cm)	Percent Error
Standard Solution Values	1	4.0		705.8		1284	
	2	7.0		705.8			
	3	10.0					
Pre-calibration Readings for Each Standard	1	4.05		706.4		1245	
	2	7.09					
	3	10.14					
Post-calibration Readings for Each Standard	1	4.01		705.7			
	2	7.01					
	3	10.06					

Site: Yvwd-2

Weather Flow Visuals

Date: 2/24/2020

Conditions: _____

Total width of creek _____

Sum of segment's widths _____

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
12:00	20.0	7.67	706	8.52	N
12:02	20.0	7.88	711	8.20	N
12:04	20.2	7.92	701	8.17	Y

Conditions Key:
Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow
Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
 3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud
Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: y v wd - E

Weather Flow Visuals

Date: 2/24/2020

Conditions: _____

Total width of creek _____

Sum of segment's widths _____

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
12:34	22.2	9.00	677	9.47	N
12:36	22.2	9.03	679	9.49	N
12:38	22.3	9.07	679	9.35	X

Conditions Key:


Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

FIELD CALIBRATION RECORD

Project Name: Yucaipa Valley Water District - San Timoteo Creek
 Date of Field Calibration: 2/24/2020
 Project Number: 11889
 Field Location: Yucaipa area, CA
 Field Crew: Madeira Bora
 Weather Conditions: Sunny
 Parameter Sensor: _____
 Instr. Type: YSI
 Model: 556
 Signature: 
 Temp (using thermometer): 19.7 Temp (using meter): 19.8

		Parameters / Field Measurements				General Description of Standards		
		pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (µS/cm)	Percent Error	
Standard Solution Values	1	4.0		708.5		1413		calibration solution, supplier, exp. Date
	2	7.0						
	3	10.0						
Pre-calibration Readings for Each Standard	1	4.25		708.3		1309		
	2	6.98						
	3	9.97						
Post-calibration Readings for Each Standard	1	3.99				1410		
	2	7.01						
	3	9.98						

Site: yvwd-A

Date: 2/27/2020

Weather

Flow

Visuals

Conditions: N-1-4 3 3

Total width of creek _____

Sum of segment's widths _____

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
1025	1.0 0.25	0.3	1.369	0.4107	6.7457
	1.0	0.5	3.104	1.552	
	1.0	0.4	3.825	1.53	
	1.0	0.4	3.537	1.4148	
	1.0	0.4	3.249	1.2996	
	1.0	0.2	1.616	0.3232	
	1.0	0.2	1.077	0.2154	
	1.0	0.2			

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1022	14.3	7.82	831	10.03	N
1030	14.5	8.09	800	9.71	N
1033	14.6	8.15	799	9.65	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft

3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F

Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F

Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: gvwd - B

Date: 2/27/2020

Weather Flow Visuals

Conditions: N-1-5 3-4 3

Total width of creek 14

Sum of segment's widths 14

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
1116	1.0	0.2	0.402	0.0804	11.5187
	1.0	0.2	1.592	0.3184	
	1.0	0.2	1.895	0.379	
	1.0	0.2			
	1.0	0.2	1.184	0.2368	
	1.0	0.2	2.240	0.448	
	1.0	0.2	2.420	0.448	
	1.0	0.3	3.133	0.9459	
	1.0	0.4	3.758	1.5032	
	1.0	0.4	4.065	1.626	
	1.0	0.5	4.209	2.1045	
	1.0	0.5	3.921	1.9605	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1112	18.4	8.32	520.3	8.87	N
1116	18.6	8.33	533	8.57	N
1123	18.7	8.35	522.4	8.46	X

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft

3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F

Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F

Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

1.0	0.5	1.656	0.828
1.0	0.4	1.600	0.64

Site: YVWD-2

Date: 2/27/2020

Weather: N-1-5 Flow: 4 Visuals: 3

Total width of creek 11.6

Sum of segment's widths 11.6

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1.0	0.2	1.280	0.256	11.02176
	1.0	0.3	0.835	0.2505	
	1.0	0.3	2.086	0.6258	
	1.0	0.4	3.026	1.2104	
	1.0	0.5	2.960	1.48	
	1.1 1.0	0.5	2.741	1.50755	
	1.1 1.0	0.5	2.946	1.6203	
	1.1	0.5	2.960	1.628	
	1.1	0.5	2.979	1.63845	
	1.1	0.4	1.829	0.80476	
	1.1				

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1:48	20.7	8.31	448.4	5.43	N
1:54	21.0	8.28	577	6.89	N
1:58	20.7	8.29	464.4	5.28	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft

3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F

Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F

Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

FIELD CALIBRATION RECORD

Project Name: Yucaipa Valley Water District - San Timoteo Creek

Date of Field Calibration: 2/27/2020

Project Number: 11889

Field Location: Yucaipa area, CA

Field Crew: Madeleine Bha

Weather Conditions: Sunny

Parameter Sensor: _____

Parameter Sensor: _____

Signature: 

Instr. Type: YSI

Model: 556

Temp (using thermometer): 20.1 Temp (using meter): 20.2

		Parameters / Field Measurements				General Description of Standards	
		Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (µS/cm)	Percent Error	
Standard Solution Values	1		70.0		1413		calibration solution, supplier, exp. Date
	2						
	3						
Pre-calibration Readings for Each Standard	1	4.0 4.06	70.1		1389		
	2	6.90					
	3	10.03					
Post-calibration Readings for Each Standard	1						
	2						
	3						

Site: yvwd - A

Date: 3/11/2020

Weather: N-1-4 Flow: 4 Visuals: 3

Total width of creek 9.0

Sum of segment's widths 9.0

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1.0	0.2	1.057	0.2114	8.8864
	1.0	0.4	1.856	0.7424	
	1.0	0.5	2.503	1.2515	
	1.0	0.6	2.931	1.7586	
	1.0	0.5	3.441	1.7205	
	1.0	0.4	3.345	1.338	
	1.0	0.4	3.297	1.3188	
	1.0	0.3	1.538	0.4614	
	1.0	0.2	0.419	0.0838	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1354	20.5	8.08	631	8.47	N
1356	20.5	8.06	625	8.26	N
1359	20.6	8.14	693	8.25	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F

Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F

Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: yvwd-B

Date: 3/11/2020

Weather Flow Visuals

Conditions: N-1-4 4 3

Total width of creek 18.4

Sum of segment's widths 18.4

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1.0	0.3	0.781	0.2343	14.2779
	1.0	0.6	2.912	1.7472	
	1.0	0.6	4.353	2.6118	
	1.0	0.6	4.256	2.5536	
	1.0	0.5	3.825	1.9125	
	1.0	0.3	2.850	0.855	
	1.0	0.2	2.599	0.5198	
	1.0	0.2	2.218	0.4436	
	1.0	0.2	2.336	0.4672	
	1.0	0.2	2.066	0.4132	
	1.0	0.2	1.743	0.3486	
	1.0	<0.2	N/A		

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1510	22.1	8.14	595	8.26	N
1513	22.1	8.24	657	7.70	N
1517	22.5	8.20	408	7.59	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft

3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F

Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F

Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

13					
14	1.0	<0.2			
15	1.0	<0.2			
16	1.0	0.2	2.361	0.4722	
17	1.0	0.3	2.659	0.7977	
18	1.2	0.3	1.990	0.7164	
18	1.2	0.2	0.770	0.1848	

Site: LyVwd - 2

Date: 3/11/2022

Weather Flow Visuals

Conditions: N-1-4 4 3

Total width of creek 8.4

Sum of segment's widths 8.4

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1.0	0.3	1.309	0.3927	10.2335
	1.0	0.5	2.912	1.456	
	1.0	0.8	3.156	2.5248	
	1.0	0.8	3.201	2.5608	
	1.0	0.8	3.153	2.5224	
	1.0	0.5	1.156	0.578	
	1.2	0.4	0.497	0.1988	
	1.2	<0.2			

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1543	23.2	8.26	640	8.01	
1545	23.2	8.26	640	7.87	
1547	23.3	8.26	638	7.72	

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F

Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F

Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

FIELD CALIBRATION RECORD

Project Name: Yucaipa Valley Water District - San Timoteo Creek
 Project Number: 11889
 Field Crew: *Madeira Silva*
 Date of Field Calibration: *3/11/2020*
 Field Location: Yucaipa area, CA
 Weather Conditions: *cloudy*
 Parameter Sensor: YSI
 Instr. Type: YSI
 Model: 556
 Temp (using thermometer): *21.5* Temp (using meter): *21.4*
 Signature: *[Signature]*

		Parameters / Field Measurements					General Description of Standards	
		pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (uS/cm)	Percent Error	calibration solution, supplier, exp. Date
Standard Solution Values	1	<i>4.0</i>		<i>703.8</i>		<i>1413</i>		
	2	<i>7.0</i>						
	3	<i>10.0</i>						
Pre-calibration Readings for Each Standard	1	<i>4.16</i>		<i>704.0</i>		<i>1545</i>		
	2	<i>6.95</i>						
	3	<i>10.02</i>						
Post-calibration Readings for Each Standard	1					<i>1448</i>		
	2							
	3							

Site: gvwd-E
 Date: 3/16/20

Weather Flow Visuals

Conditions: _____

Total width of creek _____

Sum of segment's widths _____

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
2:38	17.8	8.43	666	10.79	N
2:40	17.8	8.52	667	9.73	N
2:42	17.8	8.55	667	9.55	X

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Clinical Lab of San Bernardino, Inc.

Chain of Custody

WO _____

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client		Destination Laboratory		Analysis Requested		Turn Around Time (TAT)
Yucaipa Valley Water District		[X] Clinical Grand Terrace / ELAP 1088		Fluoride (EPA 300.0)		10
880 W. County Line Road		[] Clinical Lompoc / ELAP 1678		Chloride (EPA 300.0)		10
Yucaipa, CA 92399		[] Other:		pH (SM 4500H+B)		10
Client Contact: Ashley Gibson		No. of Preserved Cont.		Specific Conductance (SM 2510B)		
Phone No.: 909-560-1370 FAX No.: 909-795-0402		ChlorAC		Sulfate (EPA 300.0)		
System No.:		ZnCl2H6O4		Ca, Mg, K, Na (EPA 200.7)		
Project: Max Benefits - San Timoteo GMZ		Na2SO3		Alkalinity (inc. HCO3, CO3, and OH)		
Sampled By: <i>Madelaine Bur</i>		NaOH		Ammonia-N (EPA 350.1)		
Comments:		HCl		Nitrite-N (EPA 300.0)		
Email results to: Lina Robert (lrobert@yywd.dst.ca.us) and Steven Stuart (sstuart@dudek.com)		HNO3		Nitrate-N (EPA 300.0)		
Date	Time	Sample Identification	Matrix	Sample Type	Total Dissolved Solids (SM 2540C)	
			SW	Unpreserved	X	
		YYWD-A 3EA53	SW		X	
		YYWD-B 3EA54	SW		X	
		YYWD-Z 3EA56	SW		X	
		YYWD-E			X	
Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other						
Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush						
Relinquished By (Sign)		Print Name / Company		Received By (Sign)		Print Name / Company
<i>Madelaine Bur</i>		<i>M</i>		<i>M</i>		<i>M</i>
				3/16/20 3:12		
(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C						
Shipped Via: [] Fed Ex [] Golden State Overnight [] UPS [] OnTrac [] USPS [] Other						
Condition: [] On Wet Ice [] On Blu Ice [] Intact [] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____						
Receipt Comments: _____ Clinical Lab Receipt Temp.: _____ °C						

Site: yrwd-A

Date: 4/9/2020

Weather Flow Visuals
 Conditions: N-3-3 4 3

Total width of creek 14.4

Sum of segment's widths 14.4

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s	
	1.0	0.2	0.926	0.1852	15.457	
	1.0	0.3	2.468	0.7404		
	1.0	0.3	3.006	0.9018		
	1.0	0.3	2.528	0.7584		
	1.0	0.3	1.538	0.4614		
	1.0	0.5	3.264	1.632		
	1.0	0.6	4.666	2.7996		
	1.0	0.6	3.056	1.8336		
	1.0	0.5	4.401	2.2005		
	1.0	0.5	3.137	1.5685		
	1.2	0.4	2.001	0.3004		0.96048
	1.2	0.4	2.006	0.24072		

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
11:20	13.5	7.50	556.8	9.60	N
11:22	13.5	7.59	539.5	9.64	N
11:25	13.5	7.73	583.7	9.70	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F

Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F

Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

1.0 0.3 1.509 0.4527

Site: yrvwd-B Page 1Date: 4/9/2020Weather N-3-3 Flow 4 Visuals 3Total width of creek ~~25~~ 29

Sum of segment's widths _____

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
		0.3	2.181	0.6543	31.428
		0.4	2.313	0.9252	
		0.4	2.659	1.0636	
		0.3	3.006	0.9018	
		0.3	2.864	0.8592	
		0.3	2.646	0.7938	
		0.3	2.576	0.7728	
		0.2	2.850	0.57	
		0.3	2.707	0.8121	
		0.3	2.758	0.8274	
		0.3	2.662	0.7986	
		0.3	1.888	0.5664	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
12:14	15.2	8.16	564.6	9.58	N
12:18	15.2	8.16	637.1	9.47	N
12:23	15.3	8.16	526.8	9.42	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
 Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Continued page 2

Site: grwd-B

Weather Flow Visuals

Date: _____

Conditions: _____

Total width of creek _____

Sum of segment's widths _____

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
		0.2	1.990		
		0.2	1.799		
		0.2	1.307		
		<0.2			
		<0.2			
		<0.2			
		<0.2			
		<0.2			
		<0.2			
		0.2	1.616		
		0.2	2.468		
		0.2	2.408		

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: Grwd-B continued page 3

Weather Flow Visuals

Date: _____ Conditions: _____

Total width of creek _____ Sum of segment's widths _____

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
		0.2	2.517	0.5034	
		0.2	2.192	0.4384	
		0.2	1.162	0.2324	
		0.7	1.49	1.043	
		0.7	1.61	1.127	
		0.6	2.010	1.206	
		0.6	2.19	1.314	
		0.5	2.32	1.16	
		0.5	2.27	1.135	
		0.4	2.46	0.984	
		0.3	1.56	0.468	
		0.3	1.28	0.384	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

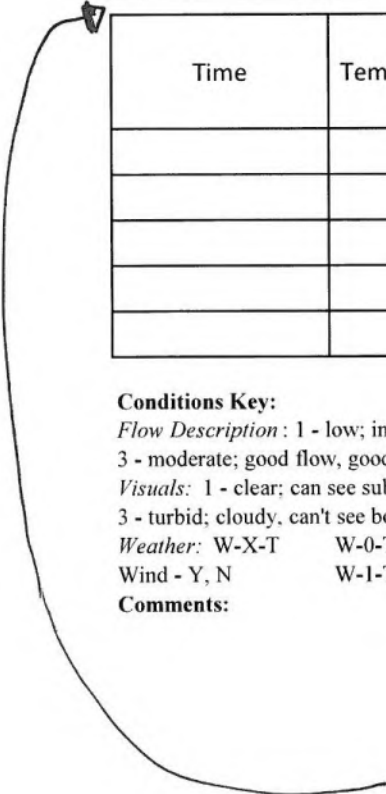
Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F

Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F

Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F



0.2 1.50 0.3
 < 0.2
 < 0.2
 < 0.2
 < 0.2

Site: Grwd-Z
 Date: 4/9/2020

Weather Flow Visuals
 Conditions: N-3-3 4 4

Total width of creek _____ Sum of segment's widths _____

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	could not measure				

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1:25	15.2	8.17	602.4	10.70	N
1:28	15.2	8.20	604.6	10.50	N
1:29	15.2	8.23	602.7	10.14	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

FIELD CALIBRATION RECORD

Project Name: Yucaipa Valley Water District - San Timoteo Creek
 Project Number: 11889
 Field Crew: Madevie Guia
 Date of Field Calibration: 8/4/9/2020
 Field Location: Yucaipa area, CA
 Weather Conditions: cloudy/rainy
 Parameter Sensor:
 Instr. Type: YSI
 Model: 556
 Signature: [Signature]

Temp (using thermometer): _____ Temp (using meter): _____

		Parameters / Field Measurements				General Description of Standards		
		pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (uS/cm)	Percent Error	calibration solution, supplier, exp. Date
Standard Solution Values	1	4.06		718.9				
	2	7.00						
	3	10.00						
Pre-calibration Readings for Each Standard	1	3.96		719.7				
	2	6.87			1440			
	3	10.01						
Post-calibration Readings for Each Standard	1							
	2							
	3							

Site: gvwd-A

Date: 4/23/2020

Weather Flow Visuals

Conditions: N-0-5 3 3

Total width of creek 13.0

Sum of segment's widths 13.0

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s	
	1.0	0.2	NA		6.7649	
	1.0	0.2	36	1.184		0.2368
	1.0	0.3	64	2.080		0.624
	1.0	0.3	80	2.592		0.7776
	1.0	0.3	65	2.112		0.6336
	1.0	0.3	42	1.376		0.4128
	1.0	0.2	15	0.511		0.1022
	1.0	0.2	55	1.792		0.3584
	1.0	0.3	74	2.400		0.72
	1.0	0.3	91	2.944		0.8832
	1.0	0.3	101	3.265		0.9795
	1.0	0.2	96	3.104		0.6208

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1146	23.4	8.15	657	8.07	
1148	23.4	8.17	633	7.85	
1150	23.5	8.19	660	7.88	

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
 Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

1.0 0.2 - 64 2.080 0.416

Site: gvwd-B page 1
 Date: 4/23/2020

Weather: N-0-5 Flow: 3 Visuals: 3
 Conditions: N-0-5 3 3

Total width of creek 30.6

Sum of segment's widths 30.6

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
		<0.2			16.497
		<0.2			
		0.2	1.280	1.280 0.256	
		0.3	2.016	2.016 0.605	
		0.4	2.976	1.1904	
		0.4	3.360	1.344	
		0.3	2.560	0.768	
		0.2	2.016	0.4032	
		<0.2			
		<0.2			
		0.2	2.016	0.4032	
		<0.2			

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1056	22.9	8.00	593	7.90	N
1059	22.9	8.01	679	7.92	N
1103	22.8	8.00	601	7.93	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F

Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F

Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: gvwd-B page 2

Weather Flow Visuals

Date: _____ Conditions: _____

Total width of creek _____ Sum of segment's widths _____

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
		<0.2			
		<0.2			
		<0.2			
		0.2	1.248	0.2496	
		0.2	1.600	0.32	
		0.3	1.600	0.48	
		0.3	1.920	0.576	
		0.3	2.432	0.7296	
		0.3	1.280	0.384	
		0.4	2.624	1.0496	
		0.3	2.368	0.7104	
		0.4	3.425	1.37	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F

Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F

Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: yvwd-13 page 3

Weather Flow Visuals

Date: _____ Conditions: _____

Total width of creek _____ Sum of segment's widths _____

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
		0.3			
		0.4			
		0.4	2.592	1.0368	
		0.4	3.393	1.3572	
		0.4	2.912	1.1648	
		0.5	2.720	1.36	
		0.3	2.016	0.6048	
		0.2	0.671	0.1343	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F

Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F

Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: yvwd-2
 Date: 4/23/20

Weather: N-0-4 Flow: 3~~4~~ Visuals: 3

Total width of creek _____

Sum of segment's widths _____

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1	< 0.2	NA		10.2316
	1	0.3	57	1.856	
	1	0.6	66	2.144	
	1	0.6	79	2.560	
	1	0.6	83	2.688	
	1	0.6	68	2.208	
	1	0.8	56	1.824	
	1	0.9	66	2.144	
	1	0.9 0.4	44	1.430	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1013	22.5	6.62	769	8.66	
1016	22.6	7.32	566	8.29	
1019	23.0	7.56	659	8.25	
1021	23.2	7.66	816	8.15	
1025	23.4	7.92	815	8.02	

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
 Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

FIELD CALIBRATION RECORD

Project Name: Yucaipa Valley Water District - San Timoteo Creek
 Project Number: 11889
 Field Crew: *Madeline Blue*
 Signature: *MB*

Date of Field Calibration: *4/23/2020*
 Field Location: Yucaipa area, CA
 Weather Conditions: *Sunny*
 Parameter Sensor:
 Instr. Type: YSI
 Model: 556

Temp (using thermometer): *22.3* Temp (using meter):

		Parameters / Field Measurements				General Description of Standards	
		pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (µS/cm)	Percent Error
Standard Solution Values	1	<i>4.00</i>		<i>718.9</i>		<i>1413</i>	
	2	<i>7.00</i>					
	3	<i>10.00</i>					
Pre-calibration Readings for Each Standard	1	<i>3.89</i>		<i>717.6</i>		<i>1354</i>	
	2	<i>6.90</i>					
	3	<i>10.22</i>					
Post-calibration Readings for Each Standard	1	<i>4.07</i>				<i>1473</i>	
	2	<i>7.07</i>					
	3	<i>10.09</i>					

Site: yrwd - A
 Date: 5/7/20

Weather: N-0-4 Flow: 3 Visuals: 3
 Conditions: N-0-4 3 3

Total width of creek 13.6

Sum of segment's widths 13.6

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
1039	1	0.2			6.5691 6.5691
1039	1	0.3	57	1.856	
1040	1	0.4	100	2.848	
1040	1	0.4	100	3.233	
1041	1	0.3	95	3.072	
1041	1	0.3	91	2.944	
1041	1	0.3	75	2.432	
1042	1	0.2	45	1.472	
1042	1	0.2			
1043	1	0.2	27	0.596	
1043	1.2	0.2			
1043	1.2	0.2	10	0.607	
				0.1244	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1039	23.6	7.78	781	9.45	N
1043	23.8	7.96	781	9.24	N
1045	24.1	8.09	771	8.08	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F

Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F

Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

1043 | 1.2 | 0.3 | 36, 1.184 0.4262

Site: ground-B
 Date: 5/7/2020

Weather Flow Visuals
 Conditions: N-0-5 3 3

Total width of creek 8 Sum of segment's widths 8.0

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
1119	1.0	0.3	21.0703	0.2109	3.8715
1120	1.0	0.3	34.1120	0.336	
1120	1.0	0.2	89.1920	0.384	
1120	1.0	0.3	96.3104	0.9312	
1121	1.0	0.4	82.266	1.0624	
1121	1.0	0.4	64.2080	0.832	
1122	1.0	0.2	17.0575	0.115	
	1.0	20.2			

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1119	27.4	8.23	586	8.53	NO
1123	27.6	8.25	494	8.25	NO
1125	27.3	8.27	540	8.10	Yes

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F

Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F

Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: gVwd-2
 Date: 5/7/2020

Weather Flow Visuals
 Conditions: N-0-5 3 3

Total width of creek 7.8

Sum of segment's widths 7.8

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
1149	1	0.2	23 0.768	0.1536	2.5784
1150	1	0.3	48 1.568	0.4704	
1150	1	0.3	45 1.472	0.4416	
1151	1	0.3	45 1.472	0.4416	
1151	1	0.3	31 1.024	0.3072	
1152	1	0.3	33 1.0876	0.3263	
1153	1	0.3	23 0.768	0.2304	
1154	0.8	0.3	26 0.864	0.2693	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1149	32.6	8.39	741	7.72	N
1153	32.0	8.43	742	7.76	N
1153	32.9	8.44	742	7.08	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow
Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
 3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud
Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Clinical Lab of San Bernardino, Inc.

Chain of Custody

WO _____

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client Yucaipa Valley Water District 880 W. County Line Road Yucaipa, CA 92399 Client Contact: Ashley Gibson Phone No.: 909-560-1370 FAX No.: 909-795-0402 System No.: Project: Max Benefits - San Timoteo GMZ Sampled By: <i>Madebreehan</i> Comments: Email results to: Lina Robert (lrobert@yvw.dst.ca.us) and Steven Stuart (sstuart@dudek.com)		Destination Laboratory <input checked="" type="checkbox"/> Clinical Grand Terrace / ELAP 1088 <input type="checkbox"/> Clinical Lompoc / ELAP 1678 <input type="checkbox"/> Other:		Analysis Requested Fluoride (EPA 300.0) Chloride (EPA 300.0) pH (SM 4500H+B) Specific Conductance (SM 2510B) Sulfate (EPA 300.0) Ca, Mg, K, Na (EPA 200.7) Alkalinity (inc. HCO3, CO3, and OH) Ammonia-N (EPA 350.1) Nitrite-N (EPA 300.0) Nitrate-N (EPA 300.0) Total Dissolved Solids (SM 2540C)		Turn Around Time (TAT) 10 10 10	
Container ID YVWD-A 3EA53 YVWD-B 3EA54 YVWD-Z 3EA56		Matrix SW SW SW		Sample Type X X X		Total Containers ChlorAC ZnC4H6O4 Na2SO3 NaOH HCl HNO3 C6H8O6 NH4Cl Na2S2O3 Unpreserved	
Date 5/7 11:25 11:53		Time 1045 1125 1153		Sample Identification SW SW SW		Comments	
Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush							
Relinquished By (Sign) <i>Madebreehan</i>		Print Name / Company Madebreehan		Date / Time 5/7/2020 11:59		Received By (Sign) _____	
Print Name / Company _____		Print Name / Company _____		Print Name / Company _____		Print Name / Company _____	
(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C Shipped Via: <input type="checkbox"/> Fed Ex <input type="checkbox"/> Golden State Overnight <input type="checkbox"/> UPS <input type="checkbox"/> OnTrac <input type="checkbox"/> USPS <input type="checkbox"/> Other _____ Condition: <input type="checkbox"/> On Wet Ice <input type="checkbox"/> On Blu Ice <input type="checkbox"/> Intact <input type="checkbox"/> Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____ Receipt Comments: _____ Clinical Lab Receipt Temp.: _____ °C							

FIELD CALIBRATION RECORD

Project Name: Yucaipa Valley Water District - San Timoteo Creek Date of Field Calibration: 5/7/2020
 Project Number: 11889 Field Location: Yucaipa area, CA
 Field Crew: Madelaine Blum Weather Conditions: Sunny
 Signature: [Signature] Parameter Sensor: _____
 Instr. Type: YSI
 Model: 556
 Temp (using thermometer): _____ Temp (using meter): _____

		Parameters / Field Measurements				General Description of Standards		
		pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (µS/cm)	Percent Error	
Standard Solution Values	1	4.0		7.8		1413		calibration solution, supplier, exp. Date
	2	7.0						
	3	10.0						
Pre-calibration Readings for Each Standard	1	4.09		7.5		1656		
	2	6.93						
	3	10.04						
Post-calibration Readings for Each Standard	1			7.8		1424		
	2							
	3							

Site: gvud-A

Date: 5/20

Weather Flow Visuals
 Conditions: N-0-4 2 2

Total width of creek 7.0

Sum of segment's widths 7.0

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1.0	0.2	18 ^{0.6074}	0.1215	3.6932
	1.0	0.2	42 ^{1.3758}	0.2752	
	1.0	0.6	39 ^{1.2797}	0.7678	
	1.0	0.6	43 ^{1.4078}	0.8447	
	1.0	0.3	77 ^{2.5979}	0.7794	
	1.1	0.3	74 ^{2.4002}	0.7921	
	1.1	0.2	15 ^{0.5114}	0.1125	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1137	22.1	8.48	869	8.83	N
1141	22.2	8.49	882	9.01	N
1144	22.4	8.51	872	9.12	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
 Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: grid-B
 Date: 5/20

Weather Conditions: N-0-4 Flow: 32 Visuals: 2

Total width of creek 6.0 Sum of segment's widths 6.0

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1.0	0.2	110 ^{3.833}	0.0767	4.5603
	1.0	0.4	70 ^{2.2721}	0.9088	
	1.0	0.4	110 ^{3.5527}	1.4211	
	1.0	0.4	108 ^{3.4886}	1.3954	
	1.0	0.3	58 ^{0.9596}	0.5664	
	1.0	0.2	29 ^{0.8860}	0.1919	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1100	23.5	8.44	726	8.61	N
1105	23.7	8.45	714	8.62	N
1110	23.4	8.42	720	8.60	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F

Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F

Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: Gyrod-3

Date: 5/20

Weather: N-0-4 Flow: 2 Visuals: 2

Total width of creek 6.4

Sum of segment's widths 6.4

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1.0	0.5	501.6319	0.81595	4.39995
	1.0	0.6	702.2721	1.3633	
	1.0	0.5	591.9192	0.9596	
	1.0	0.3	501.6317	0.4895	
	1.2	0.3	371.2157	0.4377	
	1.2	0.3	28.9276	0.3339	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1036					
0958	23.3	8.20	796	9.21	N
1040	23.6	8.39	734	8.59	N
1042	23.9	8.42	724	8.49	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Clinical Lab of San Bernardino, Inc.

Chain of Custody

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

WO _____

Client		Destination Laboratory		Analysis Requested		Turn Around Time (TAT)
Address:		No. of Preserved Cont.		Comments		
Yucaipa Valley Water District 880 W. County Line Road Yucaipa, CA 92399		[X] Clinical Grand Terrace / ELAP 1088 [] Clinical Lompoc / ELAP 1678 [] Other:		Fluoride (EPA 300.0)		10
Client Contact: Ashley Gibson		ChlorAC		Chloride (EPA 300.0)		10
Phone No.: 909-560-1370 FAX No.: 909-795-0402		ZnC4H6O4		pH (SM 4500H+B)		
System No.:		Na2SO3		Specific Conductance (SM 2510B)		
Project: Max Benefits - San Timoteo GMZ		NaOH		Sulfate (EPA 300.0)		
Sampled By: <i>Madeira Ga</i>		HCl		Ca, Mg, K, Na (EPA 200.7)		
Comments: <i>.....</i>		HNO3		Alkalinity (inc. HCO3, CO3, and OH)		
Email results to: Lina Robert (lrobert@ywwd.dst.ca.us) and Steven Stuart (sstuart@dudek.com)		C6H8O6		Ammonia-N (EPA 350.1)		
Date		NH4Cl		Nitrite-N (EPA 300.0)		
Time		Na2S2O3		Nitrate-N (EPA 300.0)		
Sample Identification		Unpreserved		Total Dissolved Solids (SM 2540C)		
Container ID		Sample Type				
Matrix		Matrix				
Date		Matrix				
Time		Matrix				
Sample Identification		Matrix				
Container ID		Matrix				
Matrix		Matrix				
Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well		Matrix				
TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush		Matrix				
Relinquished By (Sign)		Date / Time		Received By (Sign)		
<i>MK</i>		7/20/20 1323		<i>Madeira Ga</i>		
Print Name / Company		Print Name / Company		Print Name / Company		
Clinical Lab Receipt Temp.: _____ °C		Clinical Lab Receipt Temp.: _____ °C		Clinical Lab Receipt Temp.: _____ °C		
(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C		Clinical Lab Receipt Temp.: _____ °C		Clinical Lab Receipt Temp.: _____ °C		
Shipped Via: [] Fed Ex [] Golden State Overnight [] UPS [] OnTrac [] USPS [] Other		Clinical Lab Receipt Temp.: _____ °C		Clinical Lab Receipt Temp.: _____ °C		
Condition: [] On Wet Ice [] On Blu Ice [] Intact [] Custody Seals Samples / COC Checked By: _____		Clinical Lab Receipt Temp.: _____ °C		Clinical Lab Receipt Temp.: _____ °C		
Receipt Comments:		Clinical Lab Receipt Temp.: _____ °C		Clinical Lab Receipt Temp.: _____ °C		

Site: gvwd-1
 Date: 6/4/20

Weather _____ Flow _____ Visuals _____
 Conditions: N-05 23 2

Total width of creek 5.5

Sum of segment's widths _____

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
1229	1.0'	0.2			3.882
	1.0	0.3	1.520	0.456	
	1.0	0.4	2.646	1.0584	
	1.0	0.4	3.344 ⁵ 69 20sec	1.3378	
	1.0	0.4	2.302	0.9208	
	0.5	0.2	1.000	0.1088	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1224	27.9	8.35	665	Prokret working	N
				7.74	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F

Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F

Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: gvwd-B
 Date: 6/4/20

Weather N-0-5 Flow 3 Visuals 2
 Conditions: N-0-5 3 2

Total width of creek 9

Sum of segment's widths 9

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
1159	1.0	0.2			2,5513
1159	1.0	0.2	1.025	0.205	
1200	1.0	0.2	0.390	0.078	
1200	1.0	0.2	1.695	0.339	
1200	1.0	0.3	2.591	0.7653	
1201	1.0	0.2	2.288	0.4576	
1203	1.0	0.2	2.096	0.4192	
1203	1.0	0.2	0.752	0.1504	
1204	1.0	0.2	0.684	0.1368	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1159	29.4	8.20	284	7.59	N
1204	29.3	8.19	417.7	7.46	N
1207	29.3	8.19	513	7.42	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
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Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: yvwd-2

Date: 6/4/20

Weather N-0-5 Flow 3 Visuals 3

Total width of creek 6

Sum of segment's widths 6

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
1135	1.0	<0.2			0.9401
1135	1.0	0.2	1.03	0.206	
1135	1.0	0.3	0.941	0.2823	
1136	1.0	0.2	1.136	0.2272	
1136	1.0	0.2	0.546	0.1092	
1136	1.0	0.2	0.577	0.1154	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1125	32.6	7.44	835	7.23	N
1132	32.8	8.13	830	7.11	N
1137	32.4	8.26	918	7.08	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
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Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
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 Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Clinical Lab of San Bernardino, Inc.

Chain of Custody

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

WO _____

Client		Destination Laboratory		Analysis Requested		Turn Around Time (TAT)
Comments		Comments		Comments		
Yucaipa Valley Water District 880 W. County Line Road Yucaipa, CA 92399 Client Contact: Ashley Gibson Phone No.: 909-560-1370 FAX No.: 909-795-0402 System No.: Project: Max Benefits - San Timoteo GMZ Sampled By: <i>Madeleine Blar</i> Comments: Email results to: Lina Robert (lrobert@yvw.d.dst.ca.us) and Steven Stuart (sstuart@dudek.com)		[X] Clinical Grand Terrace / ELAP 1088 [] Clinical Lompoc / ELAP 1678 [] Other:		Fluoride (EPA 300.0) Chloride (EPA 300.0) pH (SM 4500H+B) Specific Conductance (SM 2510B) Sulfate (EPA 300.0) Ca, Mg, K, Na (EPA 200.7) Alkalinity (inc. HCO3, CO3, and OH) Ammonia-N (EPA 350.1) Nitrite-N (EPA 300.0) Nitrate-N (EPA 300.0) Total Dissolved Solids (SM 2540C)		10 10 10
Container ID		Sample Identification		Matrix		Date / Time
Total Containers		Sample Type		Matrix		
ChlorAC ZnC4H6O4 Na2SO3 NaOH HCl HNO3 C6H8O6 NH4Cl Na2S2O3 Unpreserved		No. of Preserved Cont. No. of Unpreserved Cont.		SW SW SW		X X X
Relinquished By (Sign) <i>MM</i>		Print Name / Company Madeleine Blar XWD		Date / Time 6/4/20 13:20		Received By (Sign) Print Name / Company
Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush						
(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C Shipped Via: [] Fed Ex [] Golden State Overnight [] UPS [] OnTrac [] USPS [] Other Condition: [] On Wet Ice [] On Blu Ice [] Intact [] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____ Receipt Comments: _____ Clinical Lab Receipt Temp.: _____ °C						

FIELD CALIBRATION RECORD

Project Name: Yucaipa Valley Water District - San Timoteo Creek Date of Field Calibration: 6/24/2020
 Project Number: 11889 Field Location: Yucaipa area, CA
 Field Crew: Melissa Bora Weather Conditions: Sunny
 Signature: [Signature] Parameter Sensor: _____
 Instr. Type: YSI Model: 556
 Temp (using thermometer): _____ Temp (using meter): _____

		Parameters / Field Measurements				General Description of Standards	
		pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (uS/cm)	Percent Error
Standard Solution Values	1	4.0		78.0		1413	
	2	7.0					
	3	10.0					
Pre-calibration Readings for Each Standard	1	3.77		716.1		1448	
	2	6.89					
	3	10.47					
Post-calibration Readings for Each Standard	1	4.06		78.0			
	2	7.14					
	3	10.10					

Site: Yhwd-A
 Date: 6/17/20

Weather: N-0-5 Flow: 1 Visuals: 2
 Conditions: N-0-5 1 2

Total width of creek 5.2

Sum of segment's widths 5.2

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1.0 1.0	0.2	0.335	0.067	3.1478
	1.0	0.2	1.430	0.286	
	1.0	0.4	2.361	0.944	
	1.0	0.4	2.659	1.0636	
	1.2	0.4	1.640	0.7872	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1426	27.3	8.60	655	7.65	N
1428	27.4	8.61	636	7.77	N
1430	27.4	8.61	628	7.80	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: gvwd - B
 Date: 6/17/20

Weather: N-0-5 Flow: 2 Visuals: 2
 Conditions: N-0-5 2 2

Total width of creek 12.4

Sum of segment's widths 12.4

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1.0	<0.2			9.2235
	1.0	<0.2			
	1.0	0.2	1.02	0.204	
	1.0	0.3	2.755	0.8265	
	1.0	0.3	3.217	0.9651	
	1.0	0.3	3.567	1.0701	
	1.0	0.4	3.633	1.4532	
	1.0	0.4	3.424	1.3696	
	1.0	0.3	2.864	0.8592	
	1.0	0.3	2.528	0.7584	
	1.2	0.2	1.538	1.5076	
	1.2	0.2	0.874	0.20976	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1353	27.7	8.33	520	7.23	N
1356	27.6	8.34	642	6.97	N
1359	27.7	8.34	510	6.93	Y
			656		

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow
 Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
 3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
 Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: yvwd-2

Date: 6/17/2020

Weather Flow Visuals

Conditions: N-0-5 1 2

Total width of creek 3.6

Sum of segment's widths 3.6

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
1328	3.6 1.0	0.2	0.35	0.07	1.2418
	1.0	0.2	2.171	0.4342	
	1.0	0.3	2.134	0.6402	
	0.6	0.2	0.812	0.0974	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1329	31.6	8.36	603	6.94	N
1330	31.6	8.38	582	4.90	6.67 N
1332	31.6	8.39	558	6.69	N
1334	31.6	8.42	776	6.81	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft


3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
 Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

FIELD CALIBRATION RECORD

Project Name: Yucaipa Valley Water District - San Timoteo Creek
 Project Number: 11889
 Field Crew: Maddine Blue
 Signature: 

Date of Field Calibration: 6/18/20
 Field Location: Yucaipa area, CA
 Weather Conditions: Sunny
 Parameter Sensor:
 Instr. Type: YSI
 Model: 556

Temp (using thermometer): _____ Temp (using meter): _____

		Parameters / Field Measurements				General Description of Standards	
		pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (uS/cm)	Percent Error
Standard Solution Values	1	4.0		78.6		1413	
	2	7.0					
	3	10.0					
Pre-calibration Readings for Each Standard	1	4.08		79.4		1565	
	2	6.92					
	3	9.97					
Post-calibration Readings for Each Standard	1					1427	
	2						
	3						

Site: y vwd- A

Date: 7/8/2020

Weather Flow Visuals

Conditions: N-07 2 1

Total width of creek 4

Sum of segment's widths 4.0

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
1452	1	0.2	0.752	0.1504	1.3749
1452	1	0.3	1.981	0.5643	
1453	1	0.3	1.734	0.5202	
1454	1	0.2	0.700	0.14	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1452	30.7	Does	608	6.57	N
1454	30.7	not	694	6.44	N
1457	30.7	work	693	6.46	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

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 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
 Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: Wwd-B
 Date: 7/8/2020

Weather Flow Visuals
 Conditions: N-0-6 3 2

Total width of creek 10.0

Sum of segment's widths 16.0

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
1405	1.0	0.2	0.385	0.077	6.6597
1407	1.0	0.2	1.675	0.309	
1409	1.0	0.3	1.904	0.5712	
1410	1.0	0.3	2.864	0.8592	
1411	1.0	0.3	3.201	0.9603	
1411	1.0	0.3	3.359	1.0077	
1412	1.0	0.3	3.441	1.0323	
1413	1.0	0.3	3.296	0.9888	
1413	1.0	0.2	2.741	0.5482	
1414	1.0	0.2	1.53	0.306	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1405	31.0		674	6.82	N
1411	30.8		672	6.47	N
1414	30.7		671	6.44	N

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
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 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: gvwd-2

Date: 7/6/2020

Weather Flow Visuals

Conditions: Y-0-6 2 2

Total width of creek 33

Sum of segment's widths 33

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
1329	1.1	0.2	0.841	0.1853 0.19602	1.14169
	1.1	0.3	1.703	0.35763 0.56199	
	1.1	0.2	1.744	0.38368	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1329	36.8	*	647	6.94	N
1328	35.9	*	840	6.67	N
1331	35.9	*	840	6.50	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft

3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

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Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Clinical Lab of San Bernardino, Inc.

Chain of Custody

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

WO

Client		Destination Laboratory		Analysis Requested												Turn Around Time (TAT)																																																																																	
Yucaipa Valley Water District		[X] Clinical Grand Terrace / ELAP 1088 [] Clinical Lompoc / ELAP 1678 [] Other:		<table border="1"> <thead> <tr> <th rowspan="2">No. of Preserved Cont.</th> <th colspan="12">Total Containers</th> </tr> <tr> <th>ChlorAC</th> <th>ZnC4H6O4</th> <th>Na2SO3</th> <th>NaOH</th> <th>HCl</th> <th>HNO3</th> <th>C6H8O6</th> <th>NH4Cl</th> <th>Na2S2O3</th> <th>Unpreserved</th> <th>Sample Type</th> <th>Matrix</th> </tr> </thead> <tbody> <tr> <td></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td> <td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td> <td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td> <td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </tbody> </table>												No. of Preserved Cont.	Total Containers												ChlorAC	ZnC4H6O4	Na2SO3	NaOH	HCl	HNO3	C6H8O6	NH4Cl	Na2S2O3	Unpreserved	Sample Type	Matrix																X														X														X													Comments
No. of Preserved Cont.	Total Containers																																																																																																
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Address: 880 W. County Line Road		Yucaipa, CA 92399		Fluoride (EPA 300.0)												10																																																																																	
Client Contact: Ashley Gibson		909-560-1370 FAX No.: 909-795-0402		Chloride (EPA 300.0)												10																																																																																	
System No.:		Project: Max Benefits - San Timoteo GMZ		pH (SM 4500H+B)												10																																																																																	
Sampled By: <i>Mabelle Bla</i>		Comments: Email results to: Lina Robert (lrobert@yvw.dst.ca.us) and Steven Stuart (sstuart@dudek.com)		Specific Conductance (SM 2510B)																																																																																													
Date		Time		Sample Identification		Sulfate (EPA 300.0)																																																																																											
7/18/20		1457		YVWD-A 3EA53		Ca, Mg, K, Na (EPA 200.7)																																																																																											
7/18/20		1414		YVWD-B 3EA54		Alkalinity (inc. HCO3, CO3, and OH)																																																																																											
7/18/20		133		YVWD-Z 3EA56		Ammonia-N (EPA 350.1)																																																																																											
						Nitrite-N (EPA 300.0)																																																																																											
						Nitrate-N (EPA 300.0)																																																																																											
						Total Dissolved Solids (SM 2540C)																																																																																											
						Matrix																																																																																											
						Container ID																																																																																											
						Sample Type																																																																																											
						Matrix																																																																																											

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
<i>[Signature]</i>	Mabelle Bla	7/18/20 15:50		

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C
 Shipped Via: [] Fed Ex [] Golden State Overnight [] UPS [] OnTrac [] USPS [] Other _____
 Condition: [] On Wet Ice [] On Blu Ice [] Intact [] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____
 Receipt Comments: _____ Clinical Lab Receipt Temp.: _____ °C

FIELD CALIBRATION RECORD

Project Name: Yucaipa Valley Water District - San Timoteo Creek
 Project Number: 11889
 Field Crew: *Heather B...*
 Signature: *MM*

Date of Field Calibration: *7/7/2020 - 7/8/2020*
 Field Location: Yucaipa area, CA
 Weather Conditions: *Sunny*
 Parameter Sensor:
 Instr. Type: YSI
 Model: 556
 Temp (using thermometer): *21.1* Temp (using meter): *21.0*

		Parameters / Field Measurements				General Description of Standards		
		pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (µS/cm)	Percent Error	calibration solution, supplier, exp. Date
Standard Solution Values	1	4.0				1413		
	2	7.0						
	3	10.0						
Pre-calibration Readings for Each Standard	1	<i>Does not work</i>		2.0		1365		
	2							
	3					1409		
Post-calibration Readings for Each Standard	1							
	2							
	3							

Site: yrrwd-A
 Date: 7/16/2020

Weather Flow Visuals
 Conditions: N-0-6 2 2

Total width of creek 6

Sum of segment's widths 6

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1.0	0.2	0.626	0.1252	1.5496
	1.0	0.2	1.178	0.2356	
	1.0	0.2	1.952	0.3904	
	1.0	0.2	1.990	0.398	
	1.0	0.2	1.010	0.202	
	1.0	0.2	0.992	0.1984	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1437	31°	 	 	6.68	N
1439	31°	 	 	6.67	N
1442	31°	 	 	6.71	Y
		8.33			

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow
Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
 3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: Grwd-B

Date: 7/16/2020

Conditions: Y-0-6 Weather 2 Flow 2 Visuals 2

Total width of creek 7

Sum of segment's widths 7

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1.0	> 0.2	—		5.9985
	1.0	0.2	0.562	0.1124	
	1.0	0.4	2.576	1.0304	
	1.0	0.5	3.407	1.7035	
	1.0	0.5	3.489	1.7445	
	1.0	0.5	2.917	1.2085	
	1.0	0.2	0.996	0.1992	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1402	31°	X	X	6.72	N
1415	30.9°	X	X	6.49	N
1417	30.9°	X	X	6.43	Y
		8.3			

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow
Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
 3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

No Flow

Weather Flow Visuals

Site: gvwd-z

Date: 7/16/2020

Conditions: _____

Total width of creek _____

Sum of segment's widths _____

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft

3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F

Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F

Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

FIELD CALIBRATION RECORD

Project Name: Yucaipa Valley Water District - San Timoteo Creek
 Project Number: 11889
 Field Crew: Madeline Pina
 Signature: *M*

Date of Field Calibration: 7/16/2020
 Field Location: Yucaipa area, CA
 Weather Conditions: Sunny
 Parameter Sensor:
 Instr. Type: YSI
 Model: 556

Temp (using thermometer): _____ Temp (using meter): _____

		Parameters / Field Measurements				General Description of Standards	
		pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (µS/cm)	Percent Error
Standard Solution Values	1	4.0		718.3		1413	
	2	7.0					
	3	10.0					
Pre-calibration Readings for Each Standard	1	N/A		719.2		1298	
	2	N/A					
	3	N/A					
Post-calibration Readings for Each Standard	1	N/A				1425	
	2						
	3						

Site: gvwd - A
 Date: 7/30/2020
 Total width of creek 4.0

Weather _____ Flow 2 Visuals 2
 Conditions: _____
 Sum of segment's widths N-0-8

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
1503		0.2	1.674	0.3358	1.4085
1504		0.3	2.059	0.6177	
1504		0.3	1.232	0.3696	
1505		0.2	0.727	0.1454	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1503	32.1	8.50	789	6.37	N
1504	32.1	8.51	783	6.32	N
1506	32.1	8.51	785	6.32	X

Conditions Key:
Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow
Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
 3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud
Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: WVWD-B
 Date: 7/30/2020

Weather Flow Visuals
 Conditions: N-0-8 3 2

Total width of creek 4.0 Sum of segment's widths _____

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
1438	1.0	0.2	0.451	0.0902	0.9746
1439	1.0	0.2	0.867	0.1774	
1439	1.0	0.2	2.802	0.5604	
1440	1.0	0.2	1.015	0.203	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1438	32.9	8.36	650	6.3	Y
1439	32.9	8.35	560	6.12	N
1442	32.9	8.36	735	6.44	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow
Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
 3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: juvd - Z
 Date: 7/30/2020

Weather Flow Visuals
 Conditions: N-0-7 2 2

Total width of creek _____

Sum of segment's widths 3.6

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
1413	1.2	0.2	1.098	0.2635	1.5173
1414	1.2	0.4	2.006	1.0013	
1415	1.2	0.2	1.052	0.2525	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1413	37.0	8.72	787	6.54	N
1415	37.0	8.71	787	6.64	N
1418	37.0	8.71	787	6.58	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
 W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Comments:

FIELD CALIBRATION RECORD

Project Name: Yucaipa Valley Water District - San Timoteo Creek

Date of Field Calibration: 7/30/2020

Project Number: 11889

Field Location: Yucaipa area, CA

Field Crew: Mohamed B. ...

Weather Conditions: Sunny

Parameter Sensor: _____

Parameter Sensor: _____

Instr. Type: _____

Instr. Type: YSI

Signature: [Signature]

Model: 556

Temp (using thermometer): _____

Temp (using meter): _____

		Parameters / Field Measurements				General Description of Standards	
		pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (µS/cm)	Percent Error
Standard Solution Values	1	4.0		78.5		1413	
	2	7.0					
	3	10.0					
Pre-calibration Readings for Each Standard	1	3.94		719.0		1392	
	2	7.07					
	3	10.24					
Post-calibration Readings for Each Standard	1						
	2						
	3						
calibration solution, supplier, exp. Date							

Conditions Key:
 Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow
 Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
 3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud
 Weather: W-X-T sunny W-0-T sunny W-2-T cloudy W-X-0 = < 30° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F
Comments:
 W-X-2 = 40-50° F W-X-3 = 50-60° F W-X-4 = 60-70° F W-X-5 = 70-80° F
 W-X-6 = 80-90° F W-X-7 = 90-100° F W-X-8 = > 100° F

Time	Temperature (°C)	pH	Specific Conductance (us/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1458	28.6	8.57	823	7.40	N
1501	28.8	8.60	823	7.30	N
1503	28.8	8.60	824	7.27	Y

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft³/s (w x d x v)	Total Flow Through Creek in ft³/s
	1.0	0.2	0.607	0.1214	0.2732
	1.0	6.3	1.498	0.4494	
	1.0	0.2	1.512	0.3024	
	1.0	<0.2			

Total width of creek 4

Sum of segments widths 4

Site: gwvd-A
 Date: 8/13/2020

Conditions: V-1-7
 Weather: 1
 Flow: 1
 Visuals: 1

Conditions Key:
 Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow
 Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
 3 - turbid; cloudy; can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud
 Weather: W-X-T sunny W-0-T cloudy W-2-T cloudy W-3-T raining
 Wind - Y, N
Comments:

W-X-3 = 50-60° F
 W-X-4 = 60-70° F
 W-X-5 = 70-80° F
 W-X-6 = 80-90° F
 W-X-7 = 90-100° F
 W-X-8 = > 100° F

Sample Collected	Dissolved Oxygen (mg/L)	Specific Conductance (us/cm)	pH	Temperature (°C)	Time
N	6.79	666	8.38	29.3	1423
N	6.74	665	8.38	29.2	1425
Y	6.71	664	8.34	29.1	1429

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
1423	1.0	0.2	1.472	0.295	6.5125
	1.0	0.3	1.191	0.3573	
	1.0	<0.2			
	1.0	0.2	1.450	0.29	
	1.0	0.3	2.816	0.8448	
	1.0	0.3	2.912	0.8736	
	1.0	0.4	3.217	1.2868	
	1.0	0.4	3.758	1.5032	
	1.0	0.3	2.586	0.7758	
	1.0	0.3	2.420	0.726	
	1.0	0.2	1.067	0.4134	

Total width of creek
 Sum of segment's widths

Site: gswd-13
 Date: 8/13/2020

Conditions: N-2-7
 Weather: 2
 Flow: 2
 Visuals: 2

FIELD CALIBRATION RECORD

Project Name: Yucaipa Valley Water District - San Timoteo Creek

Date of Field Calibration: 8/13/2020

Project Number: 11889

Field Location: Yucaipa area, CA

Field Crew: Madelive Blue

Weather Conditions: Wmild

Parameter Sensor: _____

Instr. Type: YSI

Model: 556

Signature: *MM*

Temp (using thermometer): _____

Temp (using meter): _____

Parameters / Field Measurements						General Description of Standards
	pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (uS/cm)	Percent Error
Standard Solution Values	1	4.0	78.3	1413		
	2	7.0				
	3	10.0				
Pre-calibration Readings for Each Standard	1	3.96	717.9	1478		
	2	7.03				
	3	10.22				
Post-calibration Readings for Each Standard	1					
	2					
	3					

calibration solution, supplier, exp. Date

run 1 page 1

Site: grwd-4

Date: 8/27/2020

Weather Flow Visuals

Conditions: N-0-7 1.2 2

Total width of creek ~~3.6~~ 6.6

Sum of segment's widths ~~3.6~~ 6.6

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1.1	0.2	1.077	0.2369	11.9519
	1.1	0.2	2.144	4.7168	
	1.1	0.2	1.068	3.4496	
	1.1	0.2	0.820	1.914	
	1.1	0.2	0.437	0.9614	
	1.1	0.2	0.304	0.6732	
	7				

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1431	30.8	8.55	818	7.08	N
1436	30.8	8.55	819	7.02	N
1439	30.8	8.55	834	7.01	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: gvwd- B
 Date: 8/27/2020

Weather Flow Visuals
 Conditions: N-0-7 2 2

Total width of creek 11

Sum of segment's widths 11

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1.0	≤ 0.2	0	—	4.7969
	1.0	0.3	2.672	0.8016	
	1.0	0.4	2.048	0.8192	
	1.0	0.3	2.539	0.7617	
	1.0	0.2	2.456	0.4912	
	1.0	0.2	2.028	0.4056	
	1.0	0.2	2.171	0.4342	
	1.0	0.2	1.760	0.352	
	1.0	0.2	2.076	0.4152	
	1.0	0.2	1.088	0.2176	
	1.0	0.2	0.493	0.0986	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1511	31.0	8.45	427.4	6.95	N
1515	30.9	8.44	459.6	6.88	N
1518	30.9	8.44	428.7	6.82	Y

Conditions Key:


Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

FIELD CALIBRATION RECORD

Project Name: Yucaipa Valley Water District - San Timoteo Creek
 Date of Field Calibration: 8/27/2020
 Project Number: 11889
 Field Location: Yucaipa area, CA
 Field Crew: Madeline Blum
 Weather Conditions: _____
 Parameter Sensor: _____
 Instr. Type: YSI
 Model: 556
 Signature: 
 Temp (using thermometer): 24.2 Temp (using meter): 24.2

		Parameters / Field Measurements				General Description of Standards	
		Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (µS/cm)	Percent Error	
Standard Solution Values	1		718.0		1413		calibration solution, supplier, exp. Date
	2						
	3						
Pre-calibration Readings for Each Standard	1	4.0	716.1		1586		
	2	7.0					
	3	10.0					
Post-calibration Readings for Each Standard	1	4.07	718.1		1417		
	2	7.05					
	3	10.09					

Site: gvwd-A
 Date: 9/10/2020

Weather Flow Visuals
 Conditions: N-1-6 2 1

Total width of creek 6.0

Sum of segment's widths 6.0

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
1315	1.0	<0.2			1.6365
	1.0	<0.2			
	1.0	0.2	1.184	0.2368	
	1.0	0.4	2.048	0.8192	
	1.0	0.3	1.585	0.4755	
	1.0	0.2	0.525	0.105	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1318	24.5	8.54	354.1	8.40	N
	24.5	8.28	456.2	8.18	N
	24.5	8.54	392.4	8.27	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: ground - B
 Date: 9/10/2020

Weather Flow Visuals
 Conditions: N-1-6 3 2

Total width of creek 4.0

Sum of segment's widths 4.0

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
1241	1.0	0.5	2.048	1.024	5.8338
	1.0	0.4	3.393	1.3572	
	1.0	0.5	3.567	1.7835	
	1.0	0.5	2.599	1.2995	
		0.3	1.232	0.3696	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1241	25.4	8.48	532	7.90	N
	25.5	8.46	517	7.418	N
	25.4	8.46	502	7.81	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
 W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Comments:

Site: yvwd- z

Date: 9/10/2020

Weather N-2-6 Flow 2 Visuals 2

Total width of creek 3.6

Sum of segment's widths 3.6

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
1215	1.2	0.4	2.349	1.1275	2.3625
1217	1.2	0.3	2.884	1.03824	
1218	1.2	0.2	0.820	0.1968	


Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1215	28.0	8.36	633	7.44	
1217	28.0	8.33	632	7.30	

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow
Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
 3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

FIELD CALIBRATION RECORD

Project Name: Yucaipa Valley Water District - San Timoteo Creek Date of Field Calibration: 9/10/2020
 Project Number: 11889 Field Location: Yucaipa area, CA
 Field Crew: Moderne Bhor Weather Conditions: 2Mokey
 Parameter Sensor: _____
 Instr. Type: YSI
 Model: 556
 Signature:  Temp (using thermometer): 22.0 Temp (using meter): 22.3

		Parameters / Field Measurements					General Description of Standards	
		pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (uS/cm)	Percent Error	calibration solution, supplier, exp. Date
Standard Solution Values	1	4.6		717.3		1413		
	2	7.0						
	3	10.0						
Pre-calibration Readings for Each Standard	1	4.07		724.5		1343		
	2	7.03						
	3	10.05						
Post-calibration Readings for Each Standard	1			717.3		1408		
	2							
	3							

Site: A
 Date: 9-24-20

Conditions: Weather 0 Flow 2 Visuals 2

Total width of creek _____

Sum of segment's widths _____

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
1220	6	< 0.2	—		1.4577
1230	6	< 0.2	—		
1232	6	0.2	1.656	0.3312	
1233	6	0.3	1.736	0.5208	
1234	6	0.3	2.019	0.6057	
1235	6	< 0.2	—		

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1224	25.7	8.42	796	7.36	N
1234	25.7	8.42	796	7.25	N
1239	25.8	8.42	795	7.20	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
 3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: B
 Date: 9/24/2020

Weather: 0 Flow: 2 Visuals: 2
 Conditions: 0

Total width of creek _____

Sum of segment's widths _____

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
1157	4 1.0	< 0.2			2.1191
1158	4 1.0	0.3	3.629	1.0887	
1200	4 1.0	0.4	2.576	1.0304	
1201	4 1.0	< 0.2			
1206					

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1200	25.8	8.28	522	7.08	N
1205	25.9	8.27	566	6.82	N
1210	26.0	8.27	573	6.83	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
 Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: Z

Date: 9-24-20

Weather _____ Flow _____ Visuals _____

Conditions: 0 2 1

Total width of creek 3'

Sum of segment's widths _____

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
1121	β 1.0	0.2	1.090	0.218	0.3871
1129	β 1.0	0.2	0.727	0.1454	
1132	β 1.0	0.3	0.079	0.0237	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1112	28.0	8.34	602	6.75	N
1117	27.9	8.37	412.4	6.25	N
1122	28.0	8.33	409.5	6.43	Y*

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F

Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F

Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

* Accidentally put a NO
 GP/MK

Clinical Lab of San Bernardino, Inc. Chain of Custody
 21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

WO _____

Client: Yucaipa Valley Water District 880 W. County Line Road Yucaipa, CA 92399 Client Contact: Ashley Gibson Phone No.: 909-560-1370 FAX No.: 909-795-0402 System No.: _____ Project: Max Benefits - San Timoteo GMZ Sampled By: <i>berna Padilla</i> Comments: Email results to: Lina Robert (lrobert@yvwd.dst.ca.us) and Steven Stuart (sstuart@tudek.com)		Destination Laboratory: <input checked="" type="checkbox"/> Clinical Grand Terrace / ELAP 1088 <input type="checkbox"/> Clinical Lompoc / ELAP 1678 <input type="checkbox"/> Other: _____ No. of Preserved Cont.: _____ Sample Type: _____ Matrix: _____ Container ID: _____		Analysis Requested: Fluoride (EPA 300.0) _____ Chloride (EPA 300.0) _____ pH (SM 4500H+B) _____ Specific Conductance (SM 2510B) _____ Sulfate (EPA 300.0) _____ Ca, Mg, K, Na (EPA 200.7) _____ Alkalinity (inc. HCO ₃ , CO ₃ , and OH) _____ Ammonia-N (EPA 350.1) _____ Nitrite-N (EPA 300.0) _____ Nitrate-N (EPA 300.0) _____ Total Dissolved Solids (SM 2540C) _____		Turn Around Time (TAT) _____ 10 10 10	
Date: 9-24-20 Time: 11:39 Sample Identification: YVWD-A 3EA53 9-24-20 12:10 YVWD-B 3EA54 9-24-20 12:22 YVWD-Z 3EA56		Total Containers: ChlorAC _____ ZnC4H6O4 _____ Na2SO3 _____ NaOH _____ HCl _____ HNO3 _____ C6H8O5 _____ NH4Cl _____ Na2S2O3 _____ Unpreserved _____		Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Wel Relinquished By (Sign): <i>Lina Robert</i> Print Name / Company: Lina Robert / YVWD Date / Time: 9-24-20 Received By (Sign): _____ Print Name / Company: _____		TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush Clinical Lab Receipt Temp.: _____ °C	
(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C Shipped Via: <input type="checkbox"/> Fed Ex <input type="checkbox"/> Golden State Overnight <input type="checkbox"/> UPS <input type="checkbox"/> OnTrac <input type="checkbox"/> USPS <input type="checkbox"/> Other _____ Condition: <input type="checkbox"/> On Wet Ice <input type="checkbox"/> On Blu Ice <input type="checkbox"/> Intact <input type="checkbox"/> Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____ Receipt Comments: _____							

Site: Yvond-A
 Date: 9/28/20

Weather: N-0-7 Flow: 2 Visuals: 1
 Conditions: N-0-7 2 1

Total width of creek 3.0 Sum of segment's widths 3.0

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1.0	0.2	0.752	0.1504	0.4228
	1.0	0.2	1.362	0.2724	
	1.0	<0.2			

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
2:49	27.2/27.2	8.36/8.57	814/843	7.00/7.15	N
2:51	27.2/27.2	8.39/8.56	819/846	6.94/7.06	N
2:53	27.2/27.1	8.39/8.56	821/845	6.90/7.12	Y

Conditions Key:
Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow
Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
 3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud
Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

* first numbers are newer probes - calibrated
 second numbers are other not calibrated today

Site: gweed-13

Date: 9/28/20

Weather Flow Visuals

Conditions: N-0-7 2 1

Total width of creek 2.5 + 1

Sum of segment's widths 3.5

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1.0	0.2	0.629	0.1258	0.5768
	1.0	0.2	1.273	0.2546	
	0.5	0.2			
	1.0	0.2	0.982	0.1964	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1:57	28.9 / 28.9	8.30 / 8.45	564 / 693	6.52 / 6.64	N
1:59	28.9 / 28.9	8.31 / 8.48	504 / 687	6.56 / 6.44	N
2:01	28.9 / 28.9	8.30 / 8.47	570 / 687	6.41 / 6.36	Y
			690 / 700		

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
 Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: ywcd-z

Date: 9/28/20

Weather Flow Visuals

Conditions: N-0-7 2 3

Total width of creek 4.0

Sum of segment's widths 4.0

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1.0	<0.2			1.0394
	1.0	0.2	1.328	0.2656	
	1.0	0.2	1.904	0.3808	
	1.0	0.3	1.315	0.399	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1:29	31.3/31.3	8.24/8.44	753/754	5.99/6.26	N
1:33	31.3/31.3	8.31/8.47	741/738	6.24/6.17	N
1:35	31.4/31.4	8.30/8.44	746/779	5.96/4.13	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
 Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Clinical Lab of San Bernardino, Inc.

Chain of Custody

WO _____

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client Yucaipa Valley Water District 880 W. County Line Road Yucaipa, CA 92399 Client Contact: Ashley Gibson Phone No.: 909-560-1370 FAX No.: 909-795-0402 System No.: <i>C. Madeline Bl...</i> Project: Max Benefits - San Timoteo GMZ Sampled By: <i>CA</i> Comments: <i>CA</i> Email results to: Lina Robert (lrobert@yvw.district.ca.us) and Steven Stuart (sstuart@dudek.com)		Destination Laboratory <input checked="" type="checkbox"/> Clinical Grand Terrace / ELAP 1088 <input type="checkbox"/> Clinical Lompoc / ELAP 1678 <input type="checkbox"/> Other:		Analysis Requested Fluoride (EPA 300.0) <input type="checkbox"/> <input checked="" type="checkbox"/> Chloride (EPA 300.0) <input type="checkbox"/> <input checked="" type="checkbox"/> pH (SM 4500H+B) <input type="checkbox"/> <input checked="" type="checkbox"/> Specific Conductance (SM 2510B) <input type="checkbox"/> <input checked="" type="checkbox"/> Sulfate (EPA 300.0) <input type="checkbox"/> <input checked="" type="checkbox"/> Ca, Mg, K, Na (EPA 200.7) <input type="checkbox"/> <input checked="" type="checkbox"/> Alkalinity (inc. HCO ₃ , CO ₃ , and OH) <input type="checkbox"/> <input checked="" type="checkbox"/> Ammonia-N (EPA 350.1) <input type="checkbox"/> <input checked="" type="checkbox"/> Nitrite-N (EPA 300.0) <input type="checkbox"/> <input checked="" type="checkbox"/> Nitrate-N (EPA 300.0) <input type="checkbox"/> <input checked="" type="checkbox"/> Total Dissolved Solids (SM 2540C) <input type="checkbox"/> <input checked="" type="checkbox"/>		Turn Around Time (TAT) 10 10 10	
Comments _____ _____ _____		Analysis Requested Total Containers ChlorAC _____ ZnC4H6O4 _____ Na2SO3 _____ NaOH _____ HCl _____ HNO3 _____ C6H8O6 _____ NH4Cl _____ Na2S2O3 _____ Unpreserved <input checked="" type="checkbox"/> _____ Sample Type _____ Matrix _____		_____ _____ _____		_____ _____ _____	
Date 9/25/20		Time 2:53 2:01 1:35		Sample Identification YVWD-A 3EA53 YVWD-B 3EA54 YVWD-Z 3EA56		Container ID _____ _____ _____	
Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well		Print Name / Company Madeline Bl...		Date / Time 9/25/20 3:24		Received By (Sign) _____	
Relinquished By (Sign) _____		Print Name / Company _____		Date / Time _____		Received By (Sign) _____	
(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C Shipped Via: <input type="checkbox"/> Fed Ex <input type="checkbox"/> Golden State Overnight <input type="checkbox"/> UPS <input type="checkbox"/> OnTrac <input type="checkbox"/> USPS <input type="checkbox"/> Other _____ Condition: <input type="checkbox"/> On Wet Ice <input type="checkbox"/> On Blu Ice <input type="checkbox"/> Intact <input type="checkbox"/> Custody Seals <input type="checkbox"/> Samples / COC Checked By: _____ Receipt Comments: _____		_____ _____ _____		_____ _____ _____		_____ _____ _____	

FIELD CALIBRATION RECORD

Project Name: Yucaipa Valley Water District - San Timoteo Creek
 Project Number: 11889
 Field Crew: Madeline Bur
 Date of Field Calibration: 9/28/2020
 Field Location: Yucaipa area, CA
 Weather Conditions: Sunny
 Parameter Sensor:
 Instr. Type: YSI
 Model: 556
 Signature: M

Temp (using thermometer): 23.8 Temp (using meter): 24.1

		Parameters / Field Measurements				General Description of Standards		
		pH	Percent Error	Disolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (uS/cm)	Percent Error	
Standard Solution Values	1	4.0		77.9		1413		calibration solution, supplier, exp. Date
	2	7.0						
	3	10.0						
Pre-calibration Readings for Each Standard	1	3.83		75.2		1425		
	2	6.93						
	3	10.10						
Post-calibration Readings for Each Standard	1			77.9				
	2							
	3							

Site: gvwd-A

Date: 10/7/2020

Weather Flow Visuals

Conditions: N-0-6 2 2

Total width of creek 4.0

Sum of segment's widths 4.0

1442

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
1442	1.0	0.2	0.323	0.0646	0.8446
1444	1.0	0.2	1.443	0.2886	
1445	1.0	0.2	1.417	0.2834	
1445	1.0	0.2	1.040	0.208	

1442

1444

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1442	24.3	8.45	801	7.47	N
1444	24.3	8.48	800	7.43	N
1445	24.3	8.48	7.90	7.35	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
 Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: gvwd-B

Date: 10/7/2020

Weather Flow Visuals

Conditions: N-0-6 3 2

Total width of creek _____

Sum of segment's widths 6.3

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
1417	1.0	0.3	1.718	0.5154	3.63767
1418	1.0	0.3	1.280	0.384	
1419	1.0	0.3	1.183	0.3549	
1420	1.1	0.2	1.213	0.28006	
1421	1.1	0.3	1.943	0.64086	
1422	1.1	0.5	2.659	1.46245	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1415	25.7	8.1	680	7.48	
1417	25.7	8.4	674	7.24	
1419	25.8	8.4	681	7.10	

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F

Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F

Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: yvwd-Z
 Date: 10/07/2020

Weather: Y-0-6 Flow: 2 Visuals: 2
 Conditions: Y-0-6 2 2

Total width of creek _____ Sum of segment's widths 3.0

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
1345		0.2			0.6876
1348		0.2	1.410	0.282	
1349		0.2	2.028	0.4056	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1345	29.2	8.44	580750	6.41	N
1347	29.2	8.46	730	6.53	N
1350	29.2	8.46	746	6.61	Y
1					

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
 Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Clinical Lab of San Bernardino, Inc.

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Chain of Custody

WO _____

Client Yucaipa Valley Water District 880 W. County Line Road Yucaipa, CA 92399 Client Contact: Ashley Gibson Phone No.: 909-560-1370 FAX No.: 909-795-0402 System No.: Project: Max Benefits - San Timoteo GMZ Sampled By: <i>Madebre Ben</i> Comments: Email results to: Lina Robert (lrobert@yvw.dst.ca.us) and Steven Stuart (sstuart@dudek.com)		Destination Laboratory <input checked="" type="checkbox"/> Clinical Grand Terrace / ELAP 1088 <input type="checkbox"/> Clinical Lompoc / ELAP 1678 <input type="checkbox"/> Other:		Analysis Requested Fluoride (EPA 300.0) Chloride (EPA 300.0) pH (SM 4500H+B) Specific Conductance (SM 2510B) Sulfate (EPA 300.0) Ca, Mg, K, Na (EPA 200.7) Alkalinity (inc. HCO3, CO3, and OH) Ammonia-N (EPA 350.1) Nitrite-N (EPA 300.0) Nitrate-N (EPA 300.0) Total Dissolved Solids (SM 2540C)												Turn Around Time (TAT) 10 10 10	
Container ID Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Funoff S - Sludge O - Other Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well		Sample Identification Date Time Sample ID 10/7/20 1445 YVWD-A 3EA53 10/7/20 1449 YVWD-B 3EA54 10/7/20 1308 YVWD-Z 3EA56		No. of Preserved Cont. ChlorAC ZnC4H6O4 Na2SO3 NaOH HCl HNO3 C6H8O6 NH4Cl Na2S2O3 Unpreserved Total Containers												Comments	
Relinquished By (Sign) <i>Madebre Ben</i>		Print Name / Company Madebre Ben/YVWD		Date / Time 10/7/20 1532		Received By (Sign)		Print Name / Company		TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush		Work Order Logged By: _____ Clinical Lab Receipt Temp.: _____ °C					

FIELD CALIBRATION RECORD

Project Name: Yucaipa Valley Water District - San Timoteo Creek Date of Field Calibration: 10/7/2020
 Project Number: 11889 Field Location: Yucaipa area, CA
 Field Crew: Madelaine Pina Weather Conditions: Sunny
 Signature: [Signature] Parameter Sensor: _____
 Instr. Type: YSI
 Model: 556 Temp (using thermometer): 22.09 Temp (using meter): 23.3

		Parameters / Field Measurements				General Description of Standards		
		pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (µS/cm)	Percent Error	calibration solution, supplier, exp. Date
Standard Solution Values	1	4.0		77.9		1413		
	2	7.0						
	3	10.0						
Pre-calibration Readings for Each Standard	1	3.83		77.0		1437		
	2	6.91						
	3	10.11						
Post-calibration Readings for Each Standard	1	4.04		77.9				
	2	7.03						
	3	10.09						

Site: gvwd-A

Date: 10/22/2020

Weather Flow Visuals

Conditions: X-0-5 2 1

Total width of creek 4.0

Sum of segment's widths 4.0

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
1534	1	0.2	0.730	0.146	1.1524
	1	0.3	0.968	0.2604	
	1	0.3	2.114	0.6342	
	1	0.2	0.554	0.1118	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1533	20.4	8.45	797	8.33	N
1538	20.4	8.46	791	8.47	N
1542	20.4	8.46	790	7.91	Y

*Missed

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F

Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F

Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: Yound - B
 Date: 10/22/20

Weather: Y-0-5 Flow: 2-3 Visuals: 2
 Conditions: Y-0-5 2-3 2

Total width of creek: 9.4 Sum of segment's widths: 11.6

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
1448	1.2	0.2	0.544	0.13152	4.517
	1.2	0.3	0.691	0.24516	
	1	0.2	1.362	0.2724	
	1	0.4	1.876	0.7504	
	1	0.5	2.134	1.067	
	1	0.4	1.782	0.7128	
	1	0.2	0.885	0.1766	
	1	0.2	0.546	0.1092	
	1	0.2	—	—	
				0.21752	
1501	1.2	0.3	0.492	0.20448	
1503	1.2	0.4	1.530	0.7344	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1448	23.7	8.40	641	7.76	N
1453	23.6	8.39	524	7.36	N
1457	23.7	8.39	635	7.23	X

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T sunny W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
 Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: ground-Z

Date: 10/22/20

Weather Flow Visuals

Conditions: Y-0-5 2-3 2

Total width of creek 6.0

Sum of segment's widths 6.0

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
1422	1.0	0.2	0.820	0.1640	3.4208
1422	1.0	0.2	1.424	0.2848	
1423	1.0	0.4	3.074	1.2296	
1423	1.0	0.4	3.740	1.496	
1424	1.0	0.2	1.232	0.2464	
1425	1.0	0.2			

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1422	26.2	8.34	636	5.75	N
1425	26.2	8.35	684	4.58	N
1424	26.2	8.30	715	5.95	X

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F

Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F

Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F


FIELD CALIBRATION RECORD

Project Name: Yucaipa Valley Water District - San Timoteo Creek
 Project Number: 11889
 Field Crew: *Mabelle Bala*
 Signature: *[Signature]*

Date of Field Calibration: *10/22/08*
 Field Location: Yucaipa area, CA
 Weather Conditions: *Cloudy*
 Parameter Sensor:
 Instr. Type: YSI
 Model: 556
 Temp (using thermometer): *22.8* Temp (using meter): *22.4*

		Parameters / Field Measurements				General Description of Standards	
		pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (µS/cm)	Percent Error
Standard Solution Values	1	4.0		718.8		1413	
	2	7.0					
	3	10.0					
Pre-calibration Readings for Each Standard	1	3.97		716.5		1427	
	2	7.02					
	3	10.09					
Post-calibration Readings for Each Standard	1			718.4			
	2						
	3						

FIELD CALIBRATION RECORD

Project Name: Yucaipa Valley Water District - San Timoteo Creek
 Project Number: 11889
 Field Crew: Madeline Blum
 Signature: 

Date of Field Calibration: 11/4/2020
 Field Location: Yucaipa area, CA
 Weather Conditions: cloudy
 Parameter Sensor: _____
 Instr. Type: YSI
 Model: 556
 Temp (using thermometer): _____ Temp (using meter): _____

Parameters / Field Measurements						General Description of Standards
	pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (µS/cm)	Percent Error
Standard Solution Values						
1	4.0		77.0		1413	
2	7.0					
3	10.0					
Pre-calibration Readings for Each Standard						
1	4.02		77.1		1401	
2	7.04					
3	10.11					
Post-calibration Readings for Each Standard						
1						
2						
3						

Site: gvwd-A
 Date: 11/4/20

Weather N-2-6 Flow 2 Visuals 1
 Conditions: _____

Total width of creek _____ Sum of segment's widths _____

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
1439		0.2	0.637	0.1274	0.9412
1440		0.3	1.178	0.3534	
1441		0.2	1.703	0.3406	
1442		0.2	0.599	0.1198	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1439	19.6	8.40	595	8.06	N
1441	19.6	8.41	589	8.06	N
1443	19.6	8.40	589	8.02	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals : 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: gvwd-B

Date: 11/4/2020

Weather: N-1-6 Flow: 2 Visuals: 2

Total width of creek _____ Sum of segment's widths _____

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
1410	0.6	0.2	0.835	0.1002	6.0488
1413	1.0	0.2	0.866	0.1732	
1414	1.0	0.2	1.178	0.2356	
1416	1.0	0.4	3.249	1.2996	
1416	1.0	0.3	3.662	1.0986	
1417	1.0	0.4	3.169	1.2676	
	1.0	0.4	2.706	1.0824	
	1.0	0.2	1.751	0.3502	
	1.0	0.2	0.752	0.1504	
	1.0	0.2	0.559	0.1118	
	1.0	0.2	0.890	0.1792	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1410	22.2 °C	8.34	562	7.74	N
1412	22.3	8.36	541	7.5	N
1414	22.3	8.34	538	7.45	Y

Conditions Key:
Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow
Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
 3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud
Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Clinical Lab of San Bernardino, Inc. Chain of Custody
 21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

WO _____

Client		Yucaipa Valley Water District		Destination Laboratory		[X] Clinical Grand Terrace / ELAP 1088		Analysis Requested		Comments	Turn Around Time (TAT)				
Address:		880 W. County Line Road Yucaipa, CA 92399		[] Clinical Lompoc / ELAP 1678		[] Other:									
Client Contact:		Ashley Gibson													
Phone No.:		909-560-1370		FAX No.:		909-795-0402									
System No.:				Project:		Max Benefits - San Timoteo GMZ									
Sampled By:		Madelore Blue		Container ID											
Comments:		Email results to: Lina Robert (lrobert@ywwd.dst.ca.us) and Steven Stuart (sstuart@dudek.com)		Matrix											
Date		Time		Sample Identification		No. of Preserved Cont.		Total Dissolved Solids (SM 2540C)							
11/5/20	1445	YVWD-A	3EAS3	SW	X						10				
11/5/20	1414	YVWD-B	3EAS4	SW	X						10				
		YVWD-Z	3EAS6	SW	X						10				
Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well															
Relinquished By (Sign)				Print Name / Company				Received By (Sign)				Print Name / Company			
Madelore Blue				Madelore Blue YVWD				11/5 15:27							
(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C Shipped Via: [] Fed Ex [] Golden State Overnight [] UPS [] OnTrac [] USPS [] Other _____ Condition: [] On Wet Ice [] On Dry Ice [] Intact [] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____ Receipt Comments: _____ Clinical Lab Receipt Temp.: _____ °C															

Site: gvwd-2

Date: 11/9/2020

Weather: N-2-3 Flow: 3 Visuals: 3

Total width of creek _____

Sum of segment's widths _____

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1537	17.0	8.46	523.6	10.73	N
1539	17.0	8.39	524.4	9.40	N
1541	17.0	8.40	526.7	9.20	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: grwd-E

Date: 11/9/2020

Weather: N-2-3 Flow: 3 Visuals: 3

Total width of creek _____

Sum of segment's widths _____

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1611	16.7	7.93	224.5	5.55	N
1613	16.6	8.50	283.5	7.60	N
1615	16.6	8.52	282.4	7.41	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

flow meter not working

Site: Yvond - A

Date: 11/29/2020

Weather Flow Visuals

Conditions: NO-5 3 2

Total width of creek _____

Sum of segment's widths _____

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1447	15.8	8.38	633	10.45	Y
1449	15.7	8.38	633	9.30	N
1451	15.7	8.40	631	9.01	N

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F

Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F

Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: yvwd-2

Date: 11/19/20

Weather: N-0-5 Flow: 3 Visuals: 3

Total width of creek _____

Sum of segment's widths _____

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
1355					

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1355	20.2	8.37	469.9	9.36	N
1400	20.1	8.42	456.7	8.25	N
1404	20.1	8.45	391.4	8.20	X

Conditions Key:


Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow


Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

FIELD CALIBRATION RECORD

Project Name: Yucaipa Valley Water District - San Timoteo Creek
 Project Number: 11889
 Field Crew: Madeline Bha
 Signature: 

Date of Field Calibration: 11/19/20
 Field Location: Yucaipa area, CA
 Weather Conditions: Clear
 Parameter Sensor:
 Instr. Type: YSI
 Model: 556
 Signature: 

Temp (using thermometer): Temp (using meter):

		Parameters / Field Measurements				General Description of Standards	
		pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (µS/cm)	Percent Error
Standard Solution Values	1	4.0		717.5		1413	
	2	7.0					
	3	10.0					
Pre-calibration Readings for Each Standard	1	4.07		718.6		1712	
	2	7.08					
	3	10.14					
Post-calibration Readings for Each Standard	1					1415	
	2						
	3						

Site: yvwd-A

Weather Flow Visuals

Date: 12/3/20

Conditions: N-0-4 2 1

Total width of creek 4.0

Sum of segment's widths 4.0

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1.0	0.2	1.172	0.2344	1.7893
	1.0	0.3	2.672	0.8016	
	1.0	0.3	1.885	0.5655	
	1.0	0.2	0.939	0.1878	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1512	11.9	8.37	645	10.3	N
1514	11.8	8.39	644	9.78	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft

3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F

Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F

Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: uvud - B

Weather Flow Visuals

Date: 12/3/20

Conditions: N-0-4

Total width of creek 8.0

Sum of segment's widths 8.0

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1.0	0.2	0.832	0.1664	3.1101
	1.0	0.3	2.372	0.7116	
	1.0	0.3	2.439	0.7317	
	1.0	0.3	2.420	0.726	
	1.0	0.2	0.534	0.1068	
	1.0	0.2	0.674	0.1348	
	1.0	0.2	0.996	0.1992	
	1.0	0.2	1.668	0.3336	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1444	16.3	8.22	571	9.39	N
1446	16.3	8.2	571	8.54	N
1449	16.2	8.2	572	8.37	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

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 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: yvwd-2

Weather Flow Visuals

Date: 12/3/20

Conditions: N-0-4

Total width of creek 5.0

Sum of segment's widths 5.0

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1.0	0.3	1.030	0.309	4.8364
	1.0	0.5	2.586	1.293	
	1.0	0.5	2.960	1.48	
	1.0	0.5	3.012	1.506	
	1.0	0.3	0.828	0.2484	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1416	16.6	8.27	561	9.96	N
1419	16.6	8.37	516	9.11	N
1421	16.6	8.39	488	8.97	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

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Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Clinical Lab of San Bernardino, Inc. Chain of Custody
 21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

WO _____

Client		Destination Laboratory		Analysis Requested												Turn Around Time (TAT)																																																																			
Yucaipa Valley Water District 880 W. County Line Road Yucaipa, CA 92399		[X] Clinical Grand Terrace / ELAP 1088 [] Clinical Lompoc / ELAP 1678 [] Other:		<table border="1"> <thead> <tr> <th rowspan="2">Sample Type</th> <th colspan="12">No. of Preserved Cont.</th> </tr> <tr> <th>ChlorAC</th> <th>ZnCl2</th> <th>Na2SO3</th> <th>NaOH</th> <th>HCl</th> <th>HNO3</th> <th>C6H8O6</th> <th>NH4Cl</th> <th>Na2S2O3</th> <th>Unpreserved</th> <th>Matrix</th> <th>Total Containers</th> </tr> </thead> <tbody> <tr> <td>SW</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>SW</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>SW</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </tbody> </table>												Sample Type	No. of Preserved Cont.												ChlorAC	ZnCl2	Na2SO3	NaOH	HCl	HNO3	C6H8O6	NH4Cl	Na2S2O3	Unpreserved	Matrix	Total Containers	SW														SW														SW														10
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Client Contact: Ashley Gibson Phone No.: 909-560-1370 FAX No.: 909-795-0402 System No.: Project: Max Benefits - San Timoteo GMZ Sampled By: <i>Madeleine Blum</i> Comments: Email results to: Lina Robert (lrobert@yvwd.dst.ca.us) and Steven Stuart (sstuart@dudek.com)				Fluoride (EPA 300.0) X Chloride (EPA 300.0) X pH (SM 4500H+B) X Specific Conductance (SM 2510B) X Sulfate (EPA 300.0) X Ca, Mg, K, Na (EPA 200.7) X Alkalinity (inc. HCO3, CO3, and OH) X Ammonia-N (EPA 350.1) X Nitrite-N (EPA 300.0) X Nitrate-N (EPA 300.0) X Total Dissolved Solids (SM 2540C) X												10																																																																			
Date	Time	Sample Identification																																																																																	
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12/3	1449	YVWD-B 3EA54																																																																																	
12/3	1421	YVWD-Z 3EA56																																																																																	
Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other																																																																																			
Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well																																																																																			
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<i>Madeleine Blum</i>		Madeleine Blum YVWD		12/3/2015 1555																																																																															
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Clinical Lab Receipt Temp.: _____ °C																																																																																			

FIELD CALIBRATION RECORD

Project Name: Yucaipa Valley Water District - San Timoteo Creek
 Project Number: 11889
 Field Crew: *Made live thru*
 Date of Field Calibration: *12/3/20*
 Field Location: Yucaipa area, CA
 Weather Conditions: *Sunny, cool*
 Parameter Sensor:
 Instr. Type: YSI
 Model: 556
 Temp (using thermometer): *20.8* Temp (using meter): *20.9*

		Parameters / Field Measurements					General Description of Standards	
		pH	Percent Error	Disolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (µS/cm)	Percent Error	
Standard Solution Values	1	<i>4.0</i>		<i>78.5</i>		<i>1413</i>		calibration solution, supplier, exp. Date
	2	<i>7.0</i>						
	3	<i>10.0</i>						
Pre-calibration Readings for Each Standard	1	<i>4.05</i>		<i>7216</i>		<i>1410</i>		
	2	<i>7.08</i>						
	3	<i>10.09</i>						
Post-calibration Readings for Each Standard	1			<i>78.5</i>				
	2							
	3							

Site: yvwd-A

Date: 12/17/20

Weather Flow Visuals

Conditions: N-2-4 2 2

Total width of creek 4.6

Sum of segment's widths 4.0

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
1525	1.0	0.3	0.445	0.1335	1.94706
1526	1.0	0.3	1.136	0.3408	
1527	1.0	0.3	2.002	0.8406	
1527	1.0	0.3	1.608	0.4824	
1528	0.6	0.2	1.249	0.14976	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1525	12.7	8.35	482.3	6.32	N
1530	12.7	8.37	630.5	4.34	N
1535	12.7	8.36	630.6	4.43	Y
				4.52	

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow. ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

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Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F

Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F

Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: g vwd-B

Date: 12/17/20

Weather Flow Visuals

Conditions: N-2-4 3 1

Total width of creek 8.0

Sum of segment's widths 8.0

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
1502	1.0	0.2	0.632	0.1264	4.1058
1502	1.0	0.2	1.362	0.2724	
1503	1.0	0.2	1.904	0.5076	
1504	1.0	0.2	2.539	0.3808	
1505	1.0	0.3	2.646	0.7938	
1505	1.0	0.3	3.026	0.9078	
1506	1.0	0.3	1.790	0.537	
1507	1.0	0.4	1.450	0.580	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1502	15.9	8.17	577.0	3.97	N
1507	15.5	8.10	567.8	4.03	N
1512	15.4	8.21	550.9	4.11	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

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Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: yvwd-2
 Date: 12/17/20

Weather: N-2-4 Flow: 3 Visuals: 3
 Conditions: N-2-4 3 3

Total width of creek: 7.2

Sum of segment's widths: 7.2

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
1420	1.0	0.2	0.493	0.0986	4.2805
1428	1.0	0.2	2.432	0.4864	
1429	1.0	0.3	2.707	0.8121	
1430	1.0	0.3	2.432	0.7296	
1431	1.0	0.3	2.672	0.8016	
1432	1.1	0.3	2.707	0.89331	
1433	1.1	0.2	2.096	0.4589	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1426	16.7	8.98	712.5	2.81	N
1433	15.5	8.36	422.8	3.52	N
1438	15.4	8.27	423.6	3.52	Y
			596		

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

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 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

FIELD CALIBRATION RECORD

Project Name: Yucaipa Valley Water District - San Timoteo Creek
 Project Number: 11889
 Field Crew: *Mohamed Bkr*
 Date of Field Calibration: *12/17/2010*
 Field Location: Yucaipa area, CA
 Weather Conditions: *Sunny, cold*
 Parameter Sensor:
 Instr. Type: YSI
 Model: 556
 Signature: *[Signature]*
 Temp (using thermometer): _____ Temp (using meter): _____

		Parameters / Field Measurements					General Description of Standards	
		pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (µS/cm)	Percent Error	
Standard Solution Values	1	4.0		717.3		1015		calibration solution, supplier, exp. Date
	2	7.0						
	3	10.0						
Pre-calibration Readings for Each Standard	1	4.04		712.1		1030		
	2	7.06						
	3	10.10						
Post-calibration Readings for Each Standard	1			717.4		1015		
	2							
	3							

Site: ymwd-A
 Date: 12/29/20

Weather: N-1-4 Flow: 3 Visuals: 3
 Conditions: N-1-4 3 3

Total width of creek 7.4

Sum of segment's widths 7.4

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
1045 1050	1.0	0.3	1.695	0.5085	9.7579 1.8918
1051	1.0	0.4	2.528	1.0112	
1053	1.0	0.5	3.153	1.5765	
1055	1.0	0.5	3.615	1.8075	
1057	1.0	0.5	3.280	1.64	
1058	1.2	0.5	3.153	1.5765	
1100	1.2	0.4	2.755	1.3724	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1046	10.1	8.34	464	12.96	N
1047	10.2	8.11	464	11.59	N
1050	10.2	8.19	445	11.34	N
1052	10.3	8.17	452	11.19	N
1054	10.3	8.18	450	10.82	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

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 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
 Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: Yvond - B

Date: 12/29/20

Weather Flow Visuals

Conditions: N-1-4 4 3

Total width of creek 20.0

Sum of segment's widths 20.0

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
1135		0.2	0.987	0.1974	
1135		0.4	2.456	0.9824	
1136		0.4	3.376	1.3504	
1137		0.4	4.093	1.6372	
1138		0.4	3.921	1.5684	
1139		0.4	4.257	1.7028	
1140		0.4	4.017	1.6068	
1140		0.4	3.217	1.2868	
1141		0.3	2.397	0.7191	
1142		0.2	2.273 ^{2.313}	0.4626	
1142		0.2	1.914	0.3828	
1142		< 0.2			

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1134	13.6	8.22	452	9.26	N
1136	13.5	8.23	453	9.04	N
1138	13.6	8.22	427	9.60	N
1140	13.7	8.23	427	9.9	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

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Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
 Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

1142 < 0.2

1143 0.2 1.718 0.3436

1144 0.2 2.160 0.432

1144 < 0.2

1146 0.2 1.483 0.2966

1147 0.2 1.465 0.293

1148 0.2 1.491 0.2982

1149 0.2 0.287 0.1762

Site: ground-Z

Weather Flow Visuals

Date: 12/29/20

Conditions: 1 1 3

Total width of creek 12.2

Sum of segment's widths 12.2

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
1216	1.0	0.7	1.971	1.3797	13.88472
1218	1.0	0.7	3.006	2.1042	
1219	1.0	0.6	2.979	1.7874	
1220	1.0	0.4	2.728	1.0912	
1221	1.0	0.5	3.006	1.503	
1222	1.0	0.6	2.768	1.6608	
1222	1.0	0.5	2.444	1.222	
1223	1.0	0.5	2.240 2.240	1.12	
1224	1.0	0.4	2.802	1.1208	
1224	1.0	0.3	2.255	0.6765	
1224	1.2	0.2	0.913	0.21912	
1225	1.0	<0.2			

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
1210	14.3	8.16	428	10.71	N
1212	14.2	8.17	333 ³	10.46	N
1215	14.2	8.19	369	10.17	N
1217	14.3	8.20	367	10.03	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F

Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F

Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

FIELD CALIBRATION RECORD

Project Name: Yucaipa Valley Water District - San Timoteo Creek
 Project Number: 11889
 Field Crew: *Mabelle Baker*
 Date of Field Calibration: _____
 Field Location: Yucaipa area, CA
 Weather Conditions: *Sunny some clouds*
 Parameter Sensor: _____
 Instr. Type: YSI
 Model: 556
 Signature: _____
 Temp (using thermometer): _____ Temp (using meter): _____

		Parameters / Field Measurements					General Description of Standards	
		pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (µS/cm)	Percent Error	calibration solution, supplier, exp. Date
Standard Solution Values	1	4.0		78.2		1015		<i>DO and barometer calibrated on 12/23, new DO membrane</i>
	2	7.0						
	3	10.0						
Pre-calibration Readings for Each Standard	1	4.07		78.2		1053		
	2	7.09						
	3	10.14						
Post-calibration Readings for Each Standard	1					1015		
	2							
	3							

APPENDIX E

**Analytical Laboratory Reports for Surface Water Samples
Collected in the San Timoteo Groundwater Management Zone
in 2020**

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater
12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface
Sub Project: Max Benefits - San Timoteo GMZ
Project Manager: Ashley Gibson

Work Order: 20A0166
Received: 01/03/20 12:20
Reported: 01/16/20

YVWD-B **20A0166-02 (Water)** **Sample Date:** 01/02/20 11:04 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	230	mg/L	5.0		01/06/20	01/06/20	2001037	
Ammonia as N (NH3-N)	EPA 350.1	0.18	mg/L	0.50	0.15	01/15/20	01/15/20	2003059	J
Bicarbonate (HCO3)	SM 2320 B	280	mg/L	5.0		01/06/20	01/06/20	2001037	
Carbonate (CO3)	SM 2320B	1.9	mg/L	5.0		01/06/20	01/06/20	2001037	J
Chloride (Cl)	EPA 300.0	64	mg/L	1.0	0.075	01/03/20	01/03/20	2001038	
Specific Conductance (E.C.)	SM 2510B	700	umhos/cm	2.0	0.20	01/03/20	01/03/20	2001037	
Fluoride (F)	EPA 300.0	0.45	mg/L	0.10	0.026	01/03/20	01/03/20	2001038	
Hardness, Total (as CaCO3)	Calculated	240	mg/L	6.6		01/13/20	01/14/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		01/06/20	01/06/20	2001037	
Inorganic Nitrogen	Calculated	2.4	mg/L	1.3		01/15/20	01/15/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	2.3	mg/L	0.40	0.12	01/03/20	01/03/20	2001038	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	01/03/20	01/03/20	2001038	
pH (Lab)	SM 4500HB	8.3	pH Units			01/03/20	01/03/20	2001037	
Sulfate (SO4)	EPA 300.0	33	mg/L	0.50	0.14	01/03/20	01/03/20	2001038	
Total Filterable Residue/TDS	SM 2540C	410	mg/L	5.0	3.1	01/03/20	01/07/20	2001046	

Metals

Calcium (Ca)	EPA 200.7	63	mg/L	1.0	0.080	01/13/20	01/14/20	2003021	
Magnesium (Mg)	EPA 200.7	21	mg/L	1.0	0.51	01/13/20	01/14/20	2003021	
Potassium (K)	EPA 200.7	11	mg/L	1.0	0.18	01/13/20	01/14/20	2003021	
Sodium (Na)	EPA 200.7	90	mg/L	1.0	0.21	01/13/20	01/14/20	2003021	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface

Sub Project: Max Benefits - San Timoteo GMZ

Project Manager: Ashley Gibson

Work Order: 20A0166

Received: 01/03/20 12:20

Reported: 01/16/20

YVWD-Z **20A0166-03 (Water)** **Sample Date:** 01/02/20 10:30 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	280	mg/L	5.0		01/06/20	01/06/20	2001037	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	01/15/20	01/15/20	2003059	
Bicarbonate (HCO3)	SM 2320 B	340	mg/L	5.0		01/06/20	01/06/20	2001037	
Carbonate (CO3)	SM 2320B	2.9	mg/L	5.0		01/06/20	01/06/20	2001037	J
Chloride (Cl)	EPA 300.0	71	mg/L	1.0	0.075	01/03/20	01/03/20	2001038	
Specific Conductance (E.C.)	SM 2510B	760	umhos/cm	2.0	0.20	01/03/20	01/03/20	2001037	
Fluoride (F)	EPA 300.0	0.51	mg/L	0.10	0.026	01/03/20	01/03/20	2001038	
Hardness, Total (as CaCO3)	Calculated	340	mg/L	33		01/13/20	01/14/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		01/06/20	01/06/20	2001037	
Inorganic Nitrogen	Calculated	1.7	mg/L	1.3		01/15/20	01/15/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	1.7	mg/L	0.40	0.12	01/03/20	01/03/20	2001038	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	01/03/20	01/03/20	2001038	
pH (Lab)	SM 4500HB	8.4	pH Units			01/03/20	01/03/20	2001037	
Sulfate (SO4)	EPA 300.0	35	mg/L	0.50	0.14	01/03/20	01/03/20	2001038	
Total Filterable Residue/TDS	SM 2540C	440	mg/L	5.0	3.1	01/03/20	01/07/20	2001046	

Metals

Calcium (Ca)	EPA 200.7	83	mg/L	5.0	0.40	01/13/20	01/14/20	2003021	
Magnesium (Mg)	EPA 200.7	32	mg/L	5.0	2.6	01/13/20	01/14/20	2003021	
Potassium (K)	EPA 200.7	13	mg/L	5.0	0.90	01/13/20	01/14/20	2003021	
Sodium (Na)	EPA 200.7	92	mg/L	5.0	1.1	01/13/20	01/14/20	2003021	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

Clinical Lab of San Bernardino, Inc.

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N.8th St. Lompoc CA 93436 805 737-7300

Chain of Custody

WO 20A0166

Client		Destination Laboratory										Analysis Requested										Turn Around Time (TAT)
Yucaipa Valley Water District		[X] Clinical Grand Terrace / ELAP 1088 [] Clinical Lompoc / ELAP 1678 [] Other:										Fluoride (EPA 300.0) Chloride (EPA 300.0) pH (SM 4500H+B) Specific Conductance (SM 2510B) Sulfate (EPA 300.0) Ca, Mg, K, Na (EPA 200.7) Alkalinity (inc. HCO3, CO3, and OH) Ammonia-N (EPA 350.1) Nitrite-N (EPA 300.0) Nitrate-N (EPA 300.0) Total Dissolved Solids (SM 2540C)										
Address: 880 W. County Line Road Yucaipa, CA 92399		No. of Preserved Cont.		Total Containers								Matrix		Container ID		Sample Identification		Comments				
Client Contact: Ashley Gibson		Unpreserved		ChlorAC ZnC4H6O4 Na2SO3 NaOH HCl HNO3 C6H8O6 NH4Cl Na2S2O3								SW		YVWD-A 3EA53		11:40		X		10		
Phone No.: 909-560-1370 FAX No.: 909-795-0402		Sample Type		SW								SW		YVWD-B 3EA54		11:04		X		10		
System No.:		Matrix		SW								SW		YVWD-Z 3EA56		10:30		X		10		
Project: Max Benefits - San Timoteo GMZ		Date																				
Sampled By: <i>Madeira B...</i>		Time																				
Comments: Lina Robert (lrobert@yvw.dst.ca.us) and Steven Stuart (sstuart@dudek.com)		Relinquished By (Sign)																				
		Print Name / Company																				
		Date / Time																				
		Received By (Sign)																				
		Print Name / Company																				

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other
 Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

Relinquished By (Sign) *Madeira B...* *Chris Martinez*
 Print Name / Company *Madeira B...* *Chris Martinez*
 Date / Time *1-3-20 12:20* *1-3-20 12:20*
 Received By (Sign) *Chris Martinez* *Rebecca McLearn*
 Print Name / Company *Chris Martinez* *Rebecca McLearn*

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C
 Shipped Via: [] Fed Ex [] Golden State Overnight [] UPS [] OnTrac [] USPS [] Other
 Condition: [] On Wet Ice [] On Blu Ice [] Intact [] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____
 Receipt Comments: _____ Clinical Lab Receipt Temp.: 23 °C

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface

Sub Project: Max Benefits - San Timoteo GMZ

Project Manager: Ashley Gibson

Work Order: 20A1234

Received: 01/16/20 09:10

Reported: 01/27/20

YVWD-A **20A1234-01 (Water)** **Sample Date:** 01/15/20 13:50 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	280	mg/L	5.0		01/20/20	01/20/20	2003100	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	01/22/20	01/23/20	2004070	
Bicarbonate (HCO3)	SM 2320 B	330	mg/L	5.0		01/20/20	01/20/20	2003100	
Carbonate (CO3)	SM 2320B	1.4	mg/L	5.0		01/20/20	01/20/20	2003100	J
Chloride (Cl)	EPA 300.0	84	mg/L	1.0	0.075	01/16/20	01/16/20	2003104	
Specific Conductance (E.C.)	SM 2510B	840	umhos/cm	2.0	0.20	01/20/20	01/20/20	2003100	
Fluoride (F)	EPA 300.0	0.40	mg/L	0.10	0.026	01/16/20	01/16/20	2003104	
Hardness, Total (as CaCO3)	Calculated	260	mg/L	6.6		01/23/20	01/23/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		01/20/20	01/20/20	2003100	
Inorganic Nitrogen	Calculated	2.5	mg/L	1.3		01/22/20	01/23/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	2.5	mg/L	0.40	0.12	01/16/20	01/16/20	2003104	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	01/16/20	01/16/20	2003104	
pH (Lab)	SM 4500HB	8.3	pH Units			01/16/20	01/16/20	2003100	
Sulfate (SO4)	EPA 300.0	37	mg/L	0.50	0.14	01/16/20	01/16/20	2003104	
Total Filterable Residue/TDS	SM 2540C	490	mg/L	5.0	3.1	01/16/20	01/17/20	2003107	

Metals

Calcium (Ca)	EPA 200.7	69	mg/L	1.0	0.080	01/23/20	01/23/20	2004100	
Magnesium (Mg)	EPA 200.7	21	mg/L	1.0	0.51	01/23/20	01/23/20	2004100	
Potassium (K)	EPA 200.7	12	mg/L	1.0	0.18	01/23/20	01/23/20	2004100	
Sodium (Na)	EPA 200.7	110	mg/L	5.0	1.1	01/23/20	01/23/20	2004100	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface

Sub Project: Max Benefits - San Timoteo GMZ

Project Manager: Ashley Gibson

Work Order: 20A1234

Received: 01/16/20 09:10

Reported: 01/27/20

YVWD-B **20A1234-02 (Water)** **Sample Date:** 01/15/20 11:50 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	240	mg/L	5.0		01/20/20	01/20/20	2003100	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	01/22/20	01/23/20	2004070	
Bicarbonate (HCO3)	SM 2320 B	280	mg/L	5.0		01/20/20	01/20/20	2003100	
Carbonate (CO3)	SM 2320B	2.4	mg/L	5.0		01/20/20	01/20/20	2003100	J
Chloride (Cl)	EPA 300.0	68	mg/L	1.0	0.075	01/16/20	01/16/20	2003104	
Specific Conductance (E.C.)	SM 2510B	720	umhos/cm	2.0	0.20	01/20/20	01/20/20	2003100	
Fluoride (F)	EPA 300.0	0.36	mg/L	0.10	0.026	01/16/20	01/16/20	2003104	
Hardness, Total (as CaCO3)	Calculated	280	mg/L	6.6		01/23/20	01/23/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		01/20/20	01/20/20	2003100	
Inorganic Nitrogen	Calculated	2.2	mg/L	1.3		01/22/20	01/23/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	2.2	mg/L	0.40	0.12	01/16/20	01/16/20	2003104	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	01/16/20	01/16/20	2003104	
pH (Lab)	SM 4500HB	8.3	pH Units			01/16/20	01/16/20	2003100	
Sulfate (SO4)	EPA 300.0	35	mg/L	0.50	0.14	01/16/20	01/16/20	2003104	
Total Filterable Residue/TDS	SM 2540C	440	mg/L	5.0	3.1	01/16/20	01/17/20	2003107	

Metals

Calcium (Ca)	EPA 200.7	73	mg/L	1.0	0.080	01/23/20	01/23/20	2004100	
Magnesium (Mg)	EPA 200.7	24	mg/L	1.0	0.51	01/23/20	01/23/20	2004100	
Potassium (K)	EPA 200.7	12	mg/L	1.0	0.18	01/23/20	01/23/20	2004100	
Sodium (Na)	EPA 200.7	98	mg/L	1.0	0.21	01/23/20	01/23/20	2004100	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface

Sub Project: Max Benefits - San Timoteo GMZ

Project Manager: Ashley Gibson

Work Order: 20A1234

Received: 01/16/20 09:10

Reported: 01/27/20

YVWD-Z **20A1234-03 (Water)** **Sample Date:** 01/15/20 11:16 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	250	mg/L	5.0		01/20/20	01/20/20	2003100	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	01/22/20	01/23/20	2004070	
Bicarbonate (HCO3)	SM 2320 B	300	mg/L	5.0		01/20/20	01/20/20	2003100	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		01/20/20	01/20/20	2003100	
Chloride (Cl)	EPA 300.0	70	mg/L	1.0	0.075	01/16/20	01/16/20	2003104	
Specific Conductance (E.C.)	SM 2510B	720	umhos/cm	2.0	0.20	01/20/20	01/20/20	2003100	
Fluoride (F)	EPA 300.0	0.37	mg/L	0.10	0.026	01/16/20	01/16/20	2003104	
Hardness, Total (as CaCO3)	Calculated	270	mg/L	6.6		01/23/20	01/23/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		01/20/20	01/20/20	2003100	
Inorganic Nitrogen	Calculated	1.8	mg/L	1.3		01/22/20	01/23/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	1.8	mg/L	0.40	0.12	01/16/20	01/16/20	2003104	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	01/16/20	01/16/20	2003104	
pH (Lab)	SM 4500HB	8.3	pH Units			01/16/20	01/16/20	2003100	
Sulfate (SO4)	EPA 300.0	35	mg/L	0.50	0.14	01/16/20	01/16/20	2003104	
Total Filterable Residue/TDS	SM 2540C	430	mg/L	5.0	3.1	01/17/20	01/22/20	2003129	

Metals

Calcium (Ca)	EPA 200.7	68	mg/L	1.0	0.080	01/23/20	01/23/20	2004100	
Magnesium (Mg)	EPA 200.7	23	mg/L	1.0	0.51	01/23/20	01/23/20	2004100	
Potassium (K)	EPA 200.7	11	mg/L	1.0	0.18	01/23/20	01/23/20	2004100	
Sodium (Na)	EPA 200.7	93	mg/L	1.0	0.21	01/23/20	01/23/20	2004100	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

0/0/6

WO 20A 1234

Clinical Lab of San Bernardino, Inc. Chain of Custody

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client		Destination Laboratory		Analysis Requested													Turn Around Time (TAT)																																																																																																																																																																																																																																				
Yucaipa Valley Water District 880 W. County Line Road Yucaipa, CA 92399		[X] Clinical Grand Terrace / ELAP 1088 [] Clinical Lompoc / ELAP 1678 [] Other:		<table border="1"> <tr><th colspan="13">No. of Preserved Cont.</th></tr> <tr><td>ChlorAC</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>ZnC4H6O4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Na2SO3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>NaOH</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>HCl</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>HNO3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>C6H8O6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>NH4Cl</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Na2S2O3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Unpreserved</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><th colspan="13">Sample Type</th></tr> <tr><td>Matrix</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><th colspan="13">Container ID</th></tr> <tr><td>SW</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>SW</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>SW</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>													No. of Preserved Cont.													ChlorAC													ZnC4H6O4													Na2SO3													NaOH													HCl													HNO3													C6H8O6													NH4Cl													Na2S2O3													Unpreserved													Sample Type													Matrix													Container ID													SW													SW													SW													<table border="1"> <tr><th colspan="3">TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush</th></tr> <tr><td></td><td></td><td></td></tr> </table>		TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush					
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11/15/20	1350	YVWD-A	3EA53	<i>[Signature]</i>	Madeline Brown	11/16/2020 8:45	<i>[Signature]</i>	SA Shen/Cass																																																																																																																																																																																																																																													
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Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWF - Stormwater Runoff S - Sludge O - Other
 Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

Relinquished By (Sign): *[Signature]* Print Name / Company: Madeline Brown Date / Time: 11/16/2020 8:45
 Received By (Sign): *[Signature]* Print Name / Company: SA Shen/Cass Date / Time: 11/16/2020 9:10

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C
 Shipped Via: [] Fed Ex [] Golden State Overnight [] UPS [] OnTrac [] USPS [] Other
 Condition: [X] On Wet Ice [] On Blu Ice [] Intact [] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____
 Receipt Comments: _____ Clinical Lab Receipt Temp.: 20 °C

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface
Sub Project: Max Benefits - San Timoteo GMZ
Project Manager: Ashley Gibson

Work Order: 20A2349
Received: 01/30/20 09:00
Reported: 02/11/20

YVWD-A **20A2349-01 (Water)** **Sample Date:** 01/29/20 11:26 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	290	mg/L	5.0		02/04/20	02/04/20	2005112	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	02/04/20	02/04/20	2006024	
Bicarbonate (HCO3)	SM 2320 B	340	mg/L	5.0		02/04/20	02/04/20	2005112	
Carbonate (CO3)	SM 2320B	5.8	mg/L	5.0		02/04/20	02/04/20	2005112	
Chloride (Cl)	EPA 300.0	83	mg/L	1.0	0.075	01/30/20	01/30/20	2005097	
Specific Conductance (E.C.)	SM 2510B	830	umhos/cm	2.0	0.20	01/30/20	01/30/20	2005112	
Fluoride (F)	EPA 300.0	0.42	mg/L	0.10	0.026	01/30/20	01/30/20	2005097	
Hardness, Total (as CaCO3)	Calculated	260	mg/L	6.6		02/10/20	02/10/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		02/04/20	02/04/20	2005112	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		02/04/20	02/04/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	1.1	mg/L	0.40	0.12	01/30/20	01/30/20	2005097	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	01/30/20	01/30/20	2005097	
pH (Lab)	SM 4500HB	8.4	pH Units			01/30/20	01/30/20	2005112	
Sulfate (SO4)	EPA 300.0	37	mg/L	0.50	0.14	01/30/20	01/30/20	2005097	
Total Filterable Residue/TDS	SM 2540C	480	mg/L	5.0	3.1	02/03/20	02/04/20	2006004	

Metals

Calcium (Ca)	EPA 200.7	70	mg/L	1.0	0.080	02/10/20	02/10/20	2007013	
Magnesium (Mg)	EPA 200.7	21	mg/L	1.0	0.51	02/10/20	02/10/20	2007013	
Potassium (K)	EPA 200.7	12	mg/L	1.0	0.18	02/10/20	02/10/20	2007013	
Sodium (Na)	EPA 200.7	110	mg/L	5.0	1.1	02/10/20	02/10/20	2007013	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface

Sub Project: Max Benefits - San Timoteo GMZ

Project Manager: Ashley Gibson

Work Order: 20A2349

Received: 01/30/20 09:00

Reported: 02/11/20

YVWD-B **20A2349-02 (Water)** **Sample Date:** 01/29/20 10:57 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	240	mg/L	5.0		02/04/20	02/04/20	2005112	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	02/04/20	02/04/20	2006024	
Bicarbonate (HCO3)	SM 2320 B	290	mg/L	5.0		02/04/20	02/04/20	2005112	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		02/04/20	02/04/20	2005112	
Chloride (Cl)	EPA 300.0	70	mg/L	1.0	0.075	01/30/20	01/30/20	2005097	
Specific Conductance (E.C.)	SM 2510B	720	umhos/cm	2.0	0.20	01/30/20	01/30/20	2005112	
Fluoride (F)	EPA 300.0	0.38	mg/L	0.10	0.026	01/30/20	01/30/20	2005097	
Hardness, Total (as CaCO3)	Calculated	230	mg/L	6.6		02/10/20	02/10/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		02/04/20	02/04/20	2005112	
Inorganic Nitrogen	Calculated	2.0	mg/L	1.3		02/04/20	02/04/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	2.0	mg/L	0.40	0.12	01/30/20	01/30/20	2005097	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	01/30/20	01/30/20	2005097	
pH (Lab)	SM 4500HB	8.3	pH Units			01/30/20	01/30/20	2005112	
Sulfate (SO4)	EPA 300.0	35	mg/L	0.50	0.14	01/30/20	01/30/20	2005097	
Total Filterable Residue/TDS	SM 2540C	430	mg/L	5.0	3.1	02/03/20	02/04/20	2006004	

Metals

Calcium (Ca)	EPA 200.7	61	mg/L	1.0	0.080	02/10/20	02/10/20	2007013	
Magnesium (Mg)	EPA 200.7	18	mg/L	1.0	0.51	02/10/20	02/10/20	2007013	
Potassium (K)	EPA 200.7	11	mg/L	1.0	0.18	02/10/20	02/10/20	2007013	
Sodium (Na)	EPA 200.7	89	mg/L	1.0	0.21	02/10/20	02/10/20	2007013	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface
Sub Project: Max Benefits - San Timoteo GMZ
Project Manager: Ashley Gibson

Work Order: 20A2349
Received: 01/30/20 09:00
Reported: 02/11/20

YVWD-Z **20A2349-03 (Water)** **Sample Date:** 01/29/20 10:27 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	260	mg/L	5.0		02/04/20	02/04/20	2005112	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	02/04/20	02/04/20	2006024	
Bicarbonate (HCO3)	SM 2320 B	310	mg/L	5.0		02/04/20	02/04/20	2005112	
Carbonate (CO3)	SM 2320B	1.9	mg/L	5.0		02/04/20	02/04/20	2005112	J
Chloride (Cl)	EPA 300.0	74	mg/L	1.0	0.075	01/30/20	01/30/20	2005097	
Specific Conductance (E.C.)	SM 2510B	760	umhos/cm	2.0	0.20	01/30/20	01/30/20	2005112	
Fluoride (F)	EPA 300.0	0.41	mg/L	0.10	0.026	01/30/20	01/30/20	2005097	
Hardness, Total (as CaCO3)	Calculated	270	mg/L	6.6		02/10/20	02/10/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		02/04/20	02/04/20	2005112	
Inorganic Nitrogen	Calculated	1.7	mg/L	1.3		02/04/20	02/04/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	1.7	mg/L	0.40	0.12	01/30/20	01/30/20	2005097	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	01/30/20	01/30/20	2005097	
pH (Lab)	SM 4500HB	8.4	pH Units			01/30/20	01/30/20	2005112	
Sulfate (SO4)	EPA 300.0	36	mg/L	0.50	0.14	01/30/20	01/30/20	2005097	
Total Filterable Residue/TDS	SM 2540C	440	mg/L	5.0	3.1	02/03/20	02/04/20	2006004	

Metals

Calcium (Ca)	EPA 200.7	71	mg/L	1.0	0.080	02/10/20	02/10/20	2007013	
Magnesium (Mg)	EPA 200.7	23	mg/L	1.0	0.51	02/10/20	02/10/20	2007013	
Potassium (K)	EPA 200.7	11	mg/L	1.0	0.18	02/10/20	02/10/20	2007013	
Sodium (Na)	EPA 200.7	93	mg/L	1.0	0.21	02/10/20	02/10/20	2007013	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

0106
WO 20A2349

Clinical Lab of San Bernardino, Inc.
 21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300
Chain of Custody

Client		Destination Laboratory		Analysis Requested												Turn Around Time (TAT)																																															
Yucaipa Valley Water District 880 W. County Line Road Yucaipa, CA 92399		<input checked="" type="checkbox"/> Clinical Grand Terrace / ELAP 1088 <input type="checkbox"/> Clinical Lompoc / ELAP 1678 <input type="checkbox"/> Other:		<table border="1"> <tr> <th colspan="12">No. of Preserved Cont.</th> <th rowspan="2">Total Containers</th> </tr> <tr> <th>ChlorAC</th> <th>ZnC4H6O4</th> <th>Na2SO3</th> <th>NaOH</th> <th>HCl</th> <th>HNO3</th> <th>C6H8O6</th> <th>NH4Cl</th> <th>Na2S2O3</th> <th>Unpreserved</th> <th>Sample Type</th> <th>Matrix</th> <th>Container ID</th> </tr> </table>												No. of Preserved Cont.												Total Containers	ChlorAC	ZnC4H6O4	Na2SO3	NaOH	HCl	HNO3	C6H8O6	NH4Cl	Na2S2O3	Unpreserved	Sample Type	Matrix	Container ID	Fluoride (EPA 300.0)		Chloride (EPA 300.0)		pH (SM 4500H+B)		Specific Conductance (SM 2510B)		Sulfate (EPA 300.0)		Ca, Mg, K, Na (EPA 200.7)		Alkalinity (inc. HCO3, CO3, and OH)		Ammonia-N (EPA 350.1)		Nitrite-N (EPA 300.0)		Nitrate-N (EPA 300.0)		Total Dissolved Solids (SM 2540C)	
No. of Preserved Cont.												Total Containers																																																			
ChlorAC	ZnC4H6O4	Na2SO3	NaOH	HCl	HNO3	C6H8O6	NH4Cl	Na2S2O3	Unpreserved	Sample Type	Matrix		Container ID																																																		
Date	Time	Sample Identification														Comments																																															
1/29/20	1126	YVWD-A 3EA53														10																																															
1/29/20	1057	YVWD-B 3EA54														10																																															
1/29/20	1027	YVWD-Z 3EA56														10																																															
Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other				TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush																																																											
Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well																																																															
Relinquished By (Sign)		Print Name / Company		Date / Time		Received By (Sign)						Print Name / Company																																																			
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<i>[Signature]</i>		SK Styles/CUSB		1/30/2020 - 830		<i>[Signature]</i>						JAT CUSB																																																			
<i>[Signature]</i>				1/30/2020 - 900		<i>[Signature]</i>																																																									
(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C																																																															
Shipped Via: <input type="checkbox"/> Fed Ex <input type="checkbox"/> Golden State Overnight <input type="checkbox"/> UPS <input type="checkbox"/> OnTrac <input type="checkbox"/> USPS <input type="checkbox"/> Other																																																															
Condition: <input checked="" type="checkbox"/> On Wet Ice <input type="checkbox"/> On Blu Ice <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Custody Seals <input type="checkbox"/> Samples / COC Checked By: _____				Work Order Logged By: _____																																																											
Receipt Comments: _____				Clinical Lab Receipt Temp.: 0.1 °C																																																											

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater
 12770 2nd Street
 Yucaipa CA, 92399

Project: San Timoteo-Surface
 Sub Project: Max Benefits - San Timoteo GMZ
 Project Manager: Ashley Gibson

Work Order: 20B1179
 Received: 02/14/20 11:30
 Reported: 02/25/20

YVWD-A **20B1179-01 (Water)** **Sample Date:** 02/13/20 12:04 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	280	mg/L	5.0		02/18/20	02/18/20	2007153	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	02/19/20	02/19/20	2008030	
Bicarbonate (HCO3)	SM 2320 B	340	mg/L	5.0		02/18/20	02/18/20	2007153	
Carbonate (CO3)	SM 2320B	4.3	mg/L	5.0		02/18/20	02/18/20	2007153	J
Chloride (Cl)	EPA 300.0	84	mg/L	1.0	0.075	02/14/20	02/14/20	2007150	
Specific Conductance (E.C.)	SM 2510B	830	umhos/cm	2.0	0.20	02/18/20	02/18/20	2007153	
Fluoride (F)	EPA 300.0	0.55	mg/L	0.10	0.026	02/14/20	02/14/20	2007150	
Hardness, Total (as CaCO3)	Calculated	240	mg/L	6.6		02/19/20	02/19/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		02/18/20	02/18/20	2007153	
Inorganic Nitrogen	Calculated	1.8	mg/L	1.3		02/19/20	02/19/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	1.8	mg/L	0.40	0.12	02/14/20	02/14/20	2007150	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	02/14/20	02/14/20	2007150	
pH (Lab)	SM 4500HB	8.4	pH Units			02/14/20	02/14/20	2007153	
Sulfate (SO4)	EPA 300.0	36	mg/L	0.50	0.14	02/14/20	02/14/20	2007150	
Total Filterable Residue/TDS	SM 2540C	480	mg/L	5.0	3.1	02/17/20	02/18/20	2008020	

Metals

Calcium (Ca)	EPA 200.7	64	mg/L	1.0	0.080	02/19/20	02/19/20	2008069	
Magnesium (Mg)	EPA 200.7	19	mg/L	1.0	0.51	02/19/20	02/19/20	2008069	
Potassium (K)	EPA 200.7	12	mg/L	1.0	0.18	02/19/20	02/19/20	2008069	
Sodium (Na)	EPA 200.7	93	mg/L	1.0	0.21	02/19/20	02/19/20	2008069	

Stu Styles
 Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface

Sub Project: Max Benefits - San Timoteo GMZ

Project Manager: Ashley Gibson

Work Order: 20B1179

Received: 02/14/20 11:30

Reported: 02/25/20

YVWD-B **20B1179-02 (Water)** **Sample Date:** 02/13/20 11:39 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	270	mg/L	5.0		02/18/20	02/18/20	2007153	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	02/19/20	02/19/20	2008030	
Bicarbonate (HCO3)	SM 2320 B	330	mg/L	5.0		02/18/20	02/18/20	2007153	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		02/18/20	02/18/20	2007153	
Chloride (Cl)	EPA 300.0	80	mg/L	1.0	0.075	02/14/20	02/14/20	2007150	
Specific Conductance (E.C.)	SM 2510B	790	umhos/cm	2.0	0.20	02/18/20	02/18/20	2007153	
Fluoride (F)	EPA 300.0	0.55	mg/L	0.10	0.026	02/14/20	02/14/20	2007150	
Hardness, Total (as CaCO3)	Calculated	230	mg/L	6.6		02/19/20	02/19/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		02/18/20	02/18/20	2007153	
Inorganic Nitrogen	Calculated	1.5	mg/L	1.3		02/19/20	02/19/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	1.5	mg/L	0.40	0.12	02/14/20	02/14/20	2007150	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	02/14/20	02/14/20	2007150	
pH (Lab)	SM 4500HB	8.2	pH Units			02/14/20	02/14/20	2007153	
Sulfate (SO4)	EPA 300.0	36	mg/L	0.50	0.14	02/14/20	02/14/20	2007150	
Total Filterable Residue/TDS	SM 2540C	460	mg/L	5.0	3.1	02/17/20	02/18/20	2008020	

Metals

Calcium (Ca)	EPA 200.7	62	mg/L	1.0	0.080	02/19/20	02/19/20	2008069	
Magnesium (Mg)	EPA 200.7	18	mg/L	1.0	0.51	02/19/20	02/19/20	2008069	
Potassium (K)	EPA 200.7	9.5	mg/L	1.0	0.18	02/19/20	02/19/20	2008069	
Sodium (Na)	EPA 200.7	87	mg/L	1.0	0.21	02/19/20	02/19/20	2008069	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface
Sub Project: Max Benefits - San Timoteo GMZ
Project Manager: Ashley Gibson

Work Order: 20B1179
Received: 02/14/20 11:30
Reported: 02/25/20

YVWD-Z **20B1179-03 (Water)** **Sample Date:** 02/13/20 10:53 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	360	mg/L	5.0		02/18/20	02/18/20	2007153	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	02/19/20	02/19/20	2008030	
Bicarbonate (HCO3)	SM 2320 B	430	mg/L	5.0		02/18/20	02/18/20	2007153	
Carbonate (CO3)	SM 2320B	2.9	mg/L	5.0		02/18/20	02/18/20	2007153	J
Chloride (Cl)	EPA 300.0	78	mg/L	1.0	0.075	02/14/20	02/14/20	2007150	
Specific Conductance (E.C.)	SM 2510B	790	umhos/cm	2.0	0.20	02/18/20	02/18/20	2007153	
Fluoride (F)	EPA 300.0	0.59	mg/L	0.10	0.026	02/14/20	02/14/20	2007150	
Hardness, Total (as CaCO3)	Calculated	480	mg/L	17		02/19/20	02/20/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		02/18/20	02/18/20	2007153	
Inorganic Nitrogen	Calculated	1.3	mg/L	1.3		02/19/20	02/19/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	1.3	mg/L	0.40	0.12	02/14/20	02/14/20	2007150	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	02/14/20	02/14/20	2007150	
pH (Lab)	SM 4500HB	8.4	pH Units			02/14/20	02/14/20	2007153	
Sulfate (SO4)	EPA 300.0	40	mg/L	0.50	0.14	02/14/20	02/14/20	2007150	
Total Filterable Residue/TDS	SM 2540C	460	mg/L	5.0	3.1	02/17/20	02/18/20	2008020	

Metals

Calcium (Ca)	EPA 200.7	110	mg/L	5.0	0.40	02/19/20	02/20/20	2008069	
Magnesium (Mg)	EPA 200.7	50	mg/L	1.0	0.51	02/19/20	02/19/20	2008069	
Potassium (K)	EPA 200.7	19	mg/L	1.0	0.18	02/19/20	02/19/20	2008069	
Sodium (Na)	EPA 200.7	93	mg/L	1.0	0.21	02/19/20	02/19/20	2008069	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

0/0/6
WO 2023/1179

Clinical Lab of San Bernardino, Inc. Chain of Custody
 21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client		Destination Laboratory																	
Yucaipa Valley Water District		[X] Clinical Grand Terrace / ELAP 1088																	
880 W. County Line Road		[] Clinical Lompoc / ELAP 1678																	
Yucaipa, CA 92399		[] Other:																	
Client Contact: Ashley Gibson		Total Containers																	
Phone No.: 909-560-1370 FAX No.: 909-795-0402		ChlorAC																	
System No.:		ZnC4H6O4																	
Project: Max Benefits - San Timoteo GMZ		Na2SO3																	
Sampled By: <u>Michelle Blaw</u>		NaOH																	
Comments:		HCl																	
Email results to: Lina Robert (lrobert@yywd.dst.ca.us) and Steven Stuart (sstuart@dudek.com)		HNO3																	
		C6H8O6																	
		NH4Cl																	
		Na2S2O3																	
		Unpreserved																	
		Sample Type																	
		Matrix																	
		Container ID																	
Date	Time	Sample Identification	Matrix	Sample Type	No. of Preserved Cont.	Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO3, CO3, and OH)	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Comments	Turn Around Time (TAT)	
2/13/20	12:04	YVWD-A 3EA53	SW		X	X	X	X	X	X	X	X	X	X	X	X		10	
2/13/20	11:39	YVWD-B 3EA54	SW		X	X	X	X	X	X	X	X	X	X	X	X		10	
2/13/20	10:53	YVWD-Z 3EA56	SW		X	X	X	X	X	X	X	X	X	X	X	X		10	
Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other																			
Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well																			
Relinquished By (Sign)		Print Name / Company		Date / Time		Received By (Sign)		Print Name / Company		TAT: (1) Ten Day (5) Five Day Rush (2) Two Day Rush									
<u>Michelle Blaw</u>		Michelle Blaw		2/13/20 13:50		<u>Chris Martinez</u>		Chris Martinez											
<u>Chris Martinez</u>		Chris Martinez		2/14/20 11:30		<u>Michelle Blaw</u>		Michelle Blaw											
(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C																			
Shipped Via: [] Fed Ex [] Golden State Overnight [] UPS [] OnTrac [] USPS [] Other																			
Condition: [] On Wet Ice [] On Blu Ice [] Intact [] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____																			
Receipt Comments: _____ Clinical Lab Receipt Temp.: <u>35</u> °C																			

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface

Sub Project: Max Benefits - San Timoteo GMZ

Project Manager: Ashley Gibson

Work Order: 20B1832

Received: 02/25/20 09:15

Reported: 03/06/20

YVWD-Z **20B1832-01 (Water)** **Sample Date:** 02/24/20 12:04 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	280	mg/L	5.0		02/28/20	02/28/20	2009036	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	03/02/20	03/03/20	2010022	
Bicarbonate (HCO3)	SM 2320 B	340	mg/L	5.0		02/28/20	02/28/20	2009036	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		02/28/20	02/28/20	2009036	
Chloride (Cl)	EPA 300.0	63	mg/L	1.0	0.075	02/25/20	02/25/20	2009041	
Specific Conductance (E.C.)	SM 2510B	690	umhos/cm	2.0	0.20	02/28/20	02/28/20	2009036	
Fluoride (F)	EPA 300.0	0.42	mg/L	0.10	0.026	02/25/20	02/25/20	2009041	
Hardness, Total (as CaCO3)	Calculated	660	mg/L	33		03/02/20	03/02/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		02/28/20	02/28/20	2009036	
Inorganic Nitrogen	Calculated	2.1	mg/L	1.3		03/02/20	03/03/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	2.1	mg/L	0.40	0.12	02/25/20	02/25/20	2009041	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	02/25/20	02/25/20	2009041	
pH (Lab)	SM 4500HB	8.2	pH Units			02/25/20	02/25/20	2009036	
Sulfate (SO4)	EPA 300.0	34	mg/L	0.50	0.14	02/25/20	02/25/20	2009041	
Total Filterable Residue/TDS	SM 2540C	420	mg/L	5.0	3.1	02/25/20	02/27/20	2009049	

Metals

Calcium (Ca)	EPA 200.7	140	mg/L	5.0	0.40	03/02/20	03/02/20	2010014	
Magnesium (Mg)	EPA 200.7	76	mg/L	5.0	2.6	03/02/20	03/02/20	2010014	
Potassium (K)	EPA 200.7	30	mg/L	1.0	0.18	03/02/20	03/02/20	2010014	
Sodium (Na)	EPA 200.7	83	mg/L	1.0	0.21	03/02/20	03/02/20	2010014	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface
Sub Project: Max Benefits - San Timoteo GMZ
Project Manager: Ashley Gibson

Work Order: 20B1832
Received: 02/25/20 09:15
Reported: 03/06/20

YVWD-E **20B1832-02 (Water)** **Sample Date:** 02/24/20 12:36 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	220	mg/L	5.0		02/28/20	02/28/20	2009036	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	03/02/20	03/03/20	2010022	
Bicarbonate (HCO3)	SM 2320 B	200	mg/L	5.0		02/28/20	02/28/20	2009036	
Carbonate (CO3)	SM 2320B	33	mg/L	5.0		02/28/20	02/28/20	2009036	
Chloride (Cl)	EPA 300.0	58	mg/L	1.0	0.075	02/25/20	02/25/20	2009041	
Specific Conductance (E.C.)	SM 2510B	650	umhos/cm	2.0	0.20	02/28/20	02/28/20	2009036	
Fluoride (F)	EPA 300.0	0.56	mg/L	0.10	0.026	02/25/20	02/25/20	2009041	
Hardness, Total (as CaCO3)	Calculated	210	mg/L	6.6		03/02/20	03/02/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		02/28/20	02/28/20	2009036	
Inorganic Nitrogen	Calculated	1.5	mg/L	1.3		03/02/20	03/03/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	1.5	mg/L	0.40	0.12	02/25/20	02/25/20	2009041	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	02/25/20	02/25/20	2009041	
pH (Lab)	SM 4500HB	9.1	pH Units			02/25/20	02/25/20	2009036	
Sulfate (SO4)	EPA 300.0	36	mg/L	0.50	0.14	02/25/20	02/25/20	2009041	
Total Filterable Residue/TDS	SM 2540C	380	mg/L	5.0	3.1	02/25/20	02/27/20	2009049	

Metals

Calcium (Ca)	EPA 200.7	56	mg/L	1.0	0.080	03/02/20	03/02/20	2010014	
Magnesium (Mg)	EPA 200.7	16	mg/L	1.0	0.51	03/02/20	03/02/20	2010014	
Potassium (K)	EPA 200.7	7.8	mg/L	1.0	0.18	03/02/20	03/02/20	2010014	
Sodium (Na)	EPA 200.7	78	mg/L	1.0	0.21	03/02/20	03/02/20	2010014	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface

Sub Project: Max Benefits - San Timoteo GMZ

Project Manager: Ashley Gibson

Work Order: 20B2206

Received: 02/28/20 12:45

Reported: 03/12/20

YVWD-A **20B2206-01 (Water)** **Sample Date:** 02/27/20 10:33 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO₃)	SM 2320 B	260	mg/L	5.0		03/02/20	03/02/20	2009132	
Ammonia as N (NH ₃ -N)	EPA 350.1	ND	mg/L	0.50	0.15	03/02/20	03/03/20	2010022	
Bicarbonate (HCO₃)	SM 2320 B	310	mg/L	5.0		03/02/20	03/02/20	2009132	
Carbonate (CO₃)	SM 2320B	3.8	mg/L	5.0		03/02/20	03/02/20	2009132	J
Chloride (Cl)	EPA 300.0	76	mg/L	1.0	0.075	02/28/20	02/28/20	2009137	
Specific Conductance (E.C.)	SM 2510B	810	umhos/cm	2.0	0.20	02/28/20	02/28/20	2009132	
Fluoride (F)	EPA 300.0	0.42	mg/L	0.10	0.026	02/28/20	02/28/20	2009137	
Hardness, Total (as CaCO₃)	Calculated	220	mg/L	6.6		03/04/20	03/04/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		03/02/20	03/02/20	2009132	
Inorganic Nitrogen	Calculated	3.1	mg/L	1.3		03/02/20	03/03/20	[CALC]	
Nitrate as N (NO₃-N)	EPA 300.0	3.1	mg/L	0.40	0.12	02/28/20	02/28/20	2009137	
Nitrite as N (NO ₂ -N)	EPA 300.0	ND	mg/L	0.40	0.17	02/28/20	02/28/20	2009137	
pH (Lab)	SM 4500HB	8.3	pH Units			02/28/20	02/28/20	2009132	
Sulfate (SO₄)	EPA 300.0	34	mg/L	0.50	0.14	02/28/20	02/28/20	2009137	
Total Filterable Residue/TDS	SM 2540C	490	mg/L	5.0	3.1	02/27/20	03/02/20	2009107	

Metals

Calcium (Ca)	EPA 200.7	59	mg/L	1.0	0.080	03/04/20	03/04/20	2010090	
Magnesium (Mg)	EPA 200.7	18	mg/L	1.0	0.51	03/04/20	03/04/20	2010090	
Potassium (K)	EPA 200.7	11	mg/L	1.0	0.18	03/04/20	03/04/20	2010090	
Sodium (Na)	EPA 200.7	94	mg/L	1.0	0.21	03/04/20	03/04/20	2010090	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface

Sub Project: Max Benefits - San Timoteo GMZ

Project Manager: Ashley Gibson

Work Order: 20B2206

Received: 02/28/20 12:45

Reported: 03/12/20

YVWD-B **20B2206-02 (Water)** **Sample Date:** 02/27/20 11:23 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	210	mg/L	5.0		03/02/20	03/02/20	2009132	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	03/02/20	03/03/20	2010022	
Bicarbonate (HCO3)	SM 2320 B	260	mg/L	5.0		03/02/20	03/02/20	2009132	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		03/02/20	03/02/20	2009132	
Chloride (Cl)	EPA 300.0	63	mg/L	1.0	0.075	02/28/20	02/28/20	2009137	
Specific Conductance (E.C.)	SM 2510B	690	umhos/cm	2.0	0.20	02/28/20	02/28/20	2009132	
Fluoride (F)	EPA 300.0	0.36	mg/L	0.10	0.026	02/28/20	02/28/20	2009137	
Hardness, Total (as CaCO3)	Calculated	180	mg/L	6.6		03/04/20	03/04/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		03/02/20	03/02/20	2009132	
Inorganic Nitrogen	Calculated	3.0	mg/L	1.3		03/02/20	03/03/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	3.0	mg/L	0.40	0.12	02/28/20	02/28/20	2009137	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	02/28/20	02/28/20	2009137	
pH (Lab)	SM 4500HB	8.3	pH Units			02/28/20	02/28/20	2009132	
Sulfate (SO4)	EPA 300.0	31	mg/L	0.50	0.14	02/28/20	02/28/20	2009137	
Total Filterable Residue/TDS	SM 2540C	480	mg/L	5.0	3.1	02/27/20	03/02/20	2009107	

Metals

Calcium (Ca)	EPA 200.7	48	mg/L	1.0	0.080	03/04/20	03/04/20	2010090	
Magnesium (Mg)	EPA 200.7	15	mg/L	1.0	0.51	03/04/20	03/04/20	2010090	
Potassium (K)	EPA 200.7	9.9	mg/L	1.0	0.18	03/04/20	03/04/20	2010090	
Sodium (Na)	EPA 200.7	83	mg/L	1.0	0.21	03/04/20	03/04/20	2010090	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater
12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface
Sub Project: Max Benefits - San Timoteo GMZ
Project Manager: Ashley Gibson

Work Order: 20B2206
Received: 02/28/20 12:45
Reported: 03/12/20

YVWD-Z **20B2206-03 (Water)** **Sample Date:** 02/27/20 11:56 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	300	mg/L	5.0		03/02/20	03/02/20	2009132	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	03/02/20	03/03/20	2010022	
Bicarbonate (HCO3)	SM 2320 B	370	mg/L	5.0		03/02/20	03/02/20	2009132	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		03/02/20	03/02/20	2009132	
Chloride (Cl)	EPA 300.0	66	mg/L	1.0	0.075	02/28/20	02/28/20	2009137	
Specific Conductance (E.C.)	SM 2510B	710	umhos/cm	2.0	0.20	02/28/20	02/28/20	2009132	
Fluoride (F)	EPA 300.0	0.42	mg/L	0.10	0.026	02/28/20	02/28/20	2009137	
Hardness, Total (as CaCO3)	Calculated	500	mg/L	17		03/04/20	03/04/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		03/02/20	03/02/20	2009132	
Inorganic Nitrogen	Calculated	2.6	mg/L	1.3		03/02/20	03/03/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	2.6	mg/L	0.40	0.12	02/28/20	02/28/20	2009137	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	02/28/20	02/28/20	2009137	
pH (Lab)	SM 4500HB	8.2	pH Units			02/28/20	02/28/20	2009132	
Sulfate (SO4)	EPA 300.0	33	mg/L	0.50	0.14	02/28/20	02/28/20	2009137	
Total Filterable Residue/TDS	SM 2540C	440	mg/L	5.0	3.1	02/27/20	03/02/20	2009107	

Metals

Calcium (Ca)	EPA 200.7	140	mg/L	5.0	0.40	03/04/20	03/04/20	2010090	
Magnesium (Mg)	EPA 200.7	37	mg/L	1.0	0.51	03/04/20	03/04/20	2010090	
Potassium (K)	EPA 200.7	13	mg/L	1.0	0.18	03/04/20	03/04/20	2010090	
Sodium (Na)	EPA 200.7	92	mg/L	1.0	0.21	03/04/20	03/04/20	2010090	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

WO 20B2206

Clinical Lab of San Bernardino, Inc. Chain of Custody

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client		Destination Laboratory		Analysis Requested		Turn Around Time (TAT)
Yucaipa Valley Water District 880 W. County Line Road Yucaipa, CA 92399		<input checked="" type="checkbox"/> Clinical Grand Terrace / ELAP 1088 <input type="checkbox"/> Clinical Lompoc / ELAP 1678 <input type="checkbox"/> Other:		Fluoride (EPA 300.0) Chloride (EPA 300.0) pH (SM 4500H+B) Specific Conductance (SM 2510B) Sulfate (EPA 300.0) Ca, Mg, K, Na (EPA 200.7) Alkalinity (inc. HCO ₃ , CO ₃ , and OH) Ammonia-N (EPA 350.1) Nitrite-N (EPA 300.0) Nitrate-N (EPA 300.0) Total Dissolved Solids (SM 2540C)		
System No.:		No. of Preserved Cont.		Matrix		
Phone No.: 909-560-1370 FAX No.: 909-795-0402		Total Containers ChlorAC ZnC4H6O4 Na2SO3 NaOH HCl HNO3 C6H8O6 NH4Cl Na2S2O3 Unpreserved		SW SW SW		
Project:		Sample Type		Date / Time		
Project: Max Benefits - San Timoteo GMZ Sampled By: <i>Melanie Blue</i>				2/27/20 10:33 2/27/20 11:23 2/27/20 11:56		
Comments:		Container ID		Print Name / Company		
Email results to: Lina Robert (lrobert@yvw.d.dst.ca.us) and Steven Stuart (sstuart@dudek.com)				Relinquished By (Sign) <i>Melanie Blue</i> Received By (Sign) <i>John Doe</i> Print Name / Company <i>Melanie Blue</i> Print Name / Company <i>John Doe</i>		
Date		Sample Identification		Date / Time		
				2/27/20 10:33 2/27/20 11:23 2/27/20 11:56		
Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other						
Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well						
(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C Shipped Via: <input type="checkbox"/> Fed Ex <input type="checkbox"/> Golden State Overnight <input type="checkbox"/> UPS <input type="checkbox"/> On Trac <input type="checkbox"/> USPS <input type="checkbox"/> Other		Condition: <input checked="" type="checkbox"/> On Wet Ice <input type="checkbox"/> On Blu Ice <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Custody Seals Samples / COC Checked By: _____		Work Order Logged By: _____		Clinical Lab Receipt Temp.: _____ °C

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface

Sub Project: Max Benefits - San Timoteo GMZ

Project Manager: Ashley Gibson

Work Order: 20C1055

Received: 03/12/20 09:15

Reported: 03/24/20

YVWD-B **20C1055-02 (Water)** **Sample Date:** 03/11/20 15:17 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	200	mg/L	5.0		03/19/20	03/19/20	2011091	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	03/16/20	03/17/20	2012010	
Bicarbonate (HCO3)	SM 2320 B	250	mg/L	5.0		03/19/20	03/19/20	2011091	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		03/19/20	03/19/20	2011091	
Chloride (Cl)	EPA 300.0	58	mg/L	1.0	0.075	03/12/20	03/12/20	2011098	
Specific Conductance (E.C.)	SM 2510B	630	umhos/cm	2.0	0.20	03/19/20	03/19/20	2011091	
Fluoride (F)	EPA 300.0	0.34	mg/L	0.10	0.026	03/12/20	03/12/20	2011098	
Hardness, Total (as CaCO3)	Calculated	210	mg/L	6.6		03/19/20	03/19/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		03/19/20	03/19/20	2011091	
Inorganic Nitrogen	Calculated	1.9	mg/L	1.3		03/16/20	03/17/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	1.9	mg/L	0.40	0.12	03/12/20	03/12/20	2011098	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	03/12/20	03/12/20	2011098	
pH (Lab)	SM 4500HB	8.3	pH Units			03/12/20	03/12/20	2011091	
Sulfate (SO4)	EPA 300.0	31	mg/L	0.50	0.14	03/12/20	03/12/20	2011098	
Total Filterable Residue/TDS	SM 2540C	360	mg/L	5.0	3.1	03/12/20	03/18/20	2011110	

Metals

Calcium (Ca)	EPA 200.7	55	mg/L	1.0	0.080	03/19/20	03/19/20	2012115	
Magnesium (Mg)	EPA 200.7	18	mg/L	1.0	0.51	03/19/20	03/19/20	2012115	
Potassium (K)	EPA 200.7	9.8	mg/L	1.0	0.18	03/19/20	03/19/20	2012115	
Sodium (Na)	EPA 200.7	79	mg/L	1.0	0.21	03/19/20	03/19/20	2012115	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface
Sub Project: Max Benefits - San Timoteo GMZ
Project Manager: Ashley Gibson

Work Order: 20C1055
Received: 03/12/20 09:15
Reported: 03/24/20

YVWD-Z **20C1055-03 (Water)** **Sample Date:** 03/11/20 15:47 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	240	mg/L	5.0		03/19/20	03/19/20	2011091	
Ammonia as N (NH3-N)	EPA 350.1	0.16	mg/L	0.50	0.15	03/16/20	03/17/20	2012010	J
Bicarbonate (HCO3)	SM 2320 B	290	mg/L	5.0		03/19/20	03/19/20	2011091	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		03/19/20	03/19/20	2011091	
Chloride (Cl)	EPA 300.0	59	mg/L	1.0	0.075	03/12/20	03/12/20	2011098	
Specific Conductance (E.C.)	SM 2510B	640	umhos/cm	2.0	0.20	03/19/20	03/19/20	2011091	
Fluoride (F)	EPA 300.0	0.39	mg/L	0.10	0.026	03/12/20	03/12/20	2011098	
Hardness, Total (as CaCO3)	Calculated	400	mg/L	6.6		03/19/20	03/19/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		03/19/20	03/19/20	2011091	
Inorganic Nitrogen	Calculated	1.8	mg/L	1.3		03/16/20	03/17/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	1.7	mg/L	0.40	0.12	03/12/20	03/12/20	2011098	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	03/12/20	03/12/20	2011098	
pH (Lab)	SM 4500HB	8.2	pH Units			03/12/20	03/12/20	2011091	
Sulfate (SO4)	EPA 300.0	33	mg/L	0.50	0.14	03/12/20	03/12/20	2011098	
Total Filterable Residue/TDS	SM 2540C	400	mg/L	5.0	3.1	03/12/20	03/18/20	2011110	

Metals

Calcium (Ca)	EPA 200.7	97	mg/L	1.0	0.080	03/19/20	03/19/20	2012115	
Magnesium (Mg)	EPA 200.7	37	mg/L	1.0	0.51	03/19/20	03/19/20	2012115	
Potassium (K)	EPA 200.7	15	mg/L	1.0	0.18	03/19/20	03/19/20	2012115	
Sodium (Na)	EPA 200.7	80	mg/L	1.0	0.21	03/19/20	03/19/20	2012115	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface

Sub Project: Max Benefits - San Timoteo GMZ

Project Manager: Ashley Gibson

Work Order: 20C1308

Received: 03/17/20 10:00

Reported: 03/25/20

YVWD-Z **20C1308-01 (Water)** **Sample Date:** 03/16/20 14:07 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	240	mg/L	5.0		03/20/20	03/20/20	2012041	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	03/23/20	03/23/20	2012117	
Bicarbonate (HCO3)	SM 2320 B	290	mg/L	5.0		03/20/20	03/20/20	2012041	
Carbonate (CO3)	SM 2320B	2.4	mg/L	5.0		03/20/20	03/20/20	2012041	J
Chloride (Cl)	EPA 300.0	63	mg/L	1.0	0.075	03/17/20	03/17/20	2012039	
Specific Conductance (E.C.)	SM 2510B	700	umhos/cm	2.0	0.20	03/17/20	03/17/20	2012041	
Fluoride (F)	EPA 300.0	0.39	mg/L	0.10	0.026	03/17/20	03/17/20	2012039	
Hardness, Total (as CaCO3)	Calculated	230	mg/L	6.6		03/19/20	03/19/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		03/20/20	03/20/20	2012041	
Inorganic Nitrogen	Calculated	1.6	mg/L	1.3		03/23/20	03/23/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	1.6	mg/L	0.40	0.12	03/17/20	03/17/20	2012039	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	03/17/20	03/17/20	2012039	
pH (Lab)	SM 4500HB	8.5	pH Units			03/17/20	03/17/20	2012041	
Sulfate (SO4)	EPA 300.0	40	mg/L	0.50	0.14	03/17/20	03/17/20	2012039	
Total Filterable Residue/TDS	SM 2540C	400	mg/L	5.0	3.1	03/18/20	03/19/20	2012056	

Metals

Calcium (Ca)	EPA 200.7	62	mg/L	1.0	0.080	03/19/20	03/19/20	2012115	
Magnesium (Mg)	EPA 200.7	18	mg/L	1.0	0.51	03/19/20	03/19/20	2012115	
Potassium (K)	EPA 200.7	7.4	mg/L	1.0	0.18	03/19/20	03/19/20	2012115	
Sodium (Na)	EPA 200.7	80	mg/L	1.0	0.21	03/19/20	03/19/20	2012115	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface
Sub Project: Max Benefits - San Timoteo GMZ
Project Manager: Ashley Gibson

Work Order: 20C1308
Received: 03/17/20 10:00
Reported: 03/25/20

YVWD-E **20C1308-02 (Water)** **Sample Date:** 03/16/20 14:40 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	230	mg/L	5.0		03/20/20	03/20/20	2012041	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	03/23/20	03/23/20	2012117	
Bicarbonate (HCO3)	SM 2320 B	260	mg/L	5.0		03/20/20	03/20/20	2012041	
Carbonate (CO3)	SM 2320B	7.2	mg/L	5.0		03/20/20	03/20/20	2012041	
Chloride (Cl)	EPA 300.0	62	mg/L	1.0	0.075	03/17/20	03/17/20	2012039	
Specific Conductance (E.C.)	SM 2510B	690	umhos/cm	2.0	0.20	03/17/20	03/17/20	2012041	
Fluoride (F)	EPA 300.0	0.37	mg/L	0.10	0.026	03/17/20	03/17/20	2012039	
Hardness, Total (as CaCO3)	Calculated	240	mg/L	6.6		03/19/20	03/19/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		03/20/20	03/20/20	2012041	
Inorganic Nitrogen	Calculated	1.6	mg/L	1.3		03/23/20	03/23/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	1.6	mg/L	0.40	0.12	03/17/20	03/17/20	2012039	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	03/17/20	03/17/20	2012039	
pH (Lab)	SM 4500HB	8.7	pH Units			03/17/20	03/17/20	2012041	
Sulfate (SO4)	EPA 300.0	40	mg/L	0.50	0.14	03/17/20	03/17/20	2012039	
Total Filterable Residue/TDS	SM 2540C	390	mg/L	5.0	3.1	03/18/20	03/19/20	2012056	

Metals

Calcium (Ca)	EPA 200.7	65	mg/L	1.0	0.080	03/19/20	03/19/20	2012115	
Magnesium (Mg)	EPA 200.7	20	mg/L	1.0	0.51	03/19/20	03/19/20	2012115	
Potassium (K)	EPA 200.7	7.6	mg/L	1.0	0.18	03/19/20	03/19/20	2012115	
Sodium (Na)	EPA 200.7	78	mg/L	1.0	0.21	03/19/20	03/19/20	2012115	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

0/0/4

WO 20C1308

Clinical Lab of San Bernardino, Inc. Chain of Custody
 21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client
 Yucaipa Valley Water District
 880 W. County Line Road
 Yucaipa, CA 92399
Client Contact: Ashley Gibson
 Phone No.: 909-560-1370 FAX No.: 909-795-0402
System No.: Max Benefits - San Timoteo GMZ
Project:
Sampled By: Madeline Blue
Comments:
 Email results to: Lina Robert (lrobert@yvw.dst.ca.us) and Steven Stuart (sstuart@dudek.com)

Date	Time	Sample Identification		Matrix	Sample Type	No. of Preserved Cont.												Total Containers	Analysis Requested												Turn Around Time (TAT)	Comments
		Container ID				Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)		Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO3, CO3, and OH)	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)						
				SW		X															X	X	X	X	X	10						
3/16/20	2:07		3EA53	SW		X															X	X	X	X	X	10						
3/16/20	2:40		3EA56	SW		X															X	X	X	X	X	10						
			XVWZ																													

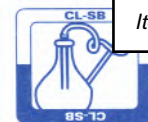
Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other
 Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
<i>Madeline Blue</i>		3/16/20 3:12	<i>Shirley Guss</i>	Shirley Guss
<i>[Signature]</i>		3/17/2020-9:15	<i>[Signature]</i>	
<i>[Signature]</i>		3/17/2020-1:00	<i>[Signature]</i>	JJA CISTB

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C
 Shipped Via: [] Fed Ex [] Golden State Overnight [] UPS [] OnTrac [] USPS [] Other
 Condition: On Wet Ice [] On Blu Ice Intact [] Custody Seals Samples /COC Checked By: _____ Work Order Logged By: _____
 Receipt Comments: _____ Clinical Lab Receipt Temp.: _____ °C

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface

Sub Project: Max Benefits - San Timoteo GMZ

Project Manager: Ashley Gibson

Work Order: 20C2093

Received: 03/26/20 08:55

Reported: 04/06/20

YVWD-A **20C2093-01 (Water)** **Sample Date:** 03/25/20 9:25 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	260	mg/L	5.0		03/30/20	03/30/20	2013096	
Ammonia as N (NH3-N)	EPA 350.1	0.17	mg/L	0.50	0.15	03/26/20	03/27/20	2013112	J
Bicarbonate (HCO3)	SM 2320 B	310	mg/L	5.0		03/30/20	03/30/20	2013096	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		03/30/20	03/30/20	2013096	
Chloride (Cl)	EPA 300.0	68	mg/L	1.0	0.075	03/26/20	03/26/20	2013099	
Specific Conductance (E.C.)	SM 2510B	750	umhos/cm	2.0	0.20	03/30/20	03/30/20	2013096	
Fluoride (F)	EPA 300.0	0.36	mg/L	0.10	0.026	03/26/20	03/26/20	2013099	
Hardness, Total (as CaCO3)	Calculated	240	mg/L	6.6		03/31/20	03/31/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		03/30/20	03/30/20	2013096	
Inorganic Nitrogen	Calculated	1.6	mg/L	1.3		03/26/20	03/27/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	1.4	mg/L	0.40	0.12	03/26/20	03/26/20	2013099	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	03/26/20	03/26/20	2013099	
pH (Lab)	SM 4500HB	8.2	pH Units			03/26/20	03/26/20	2013096	
Sulfate (SO4)	EPA 300.0	36	mg/L	0.50	0.14	03/26/20	03/26/20	2013099	
Total Filterable Residue/TDS	SM 2540C	450	mg/L	5.0	3.1	03/26/20	03/27/20	2013025	

Metals

Calcium (Ca)	EPA 200.7	60	mg/L	1.0	0.080	03/31/20	03/31/20	2014047	
Magnesium (Mg)	EPA 200.7	21	mg/L	1.0	0.51	03/31/20	03/31/20	2014047	
Potassium (K)	EPA 200.7	9.2	mg/L	1.0	0.18	03/31/20	03/31/20	2014047	
Sodium (Na)	EPA 200.7	77	mg/L	1.0	0.21	03/31/20	03/31/20	2014047	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface

Sub Project: Max Benefits - San Timoteo GMZ

Project Manager: Ashley Gibson

Work Order: 20C2093

Received: 03/26/20 08:55

Reported: 04/06/20

YVWD-B **20C2093-02 (Water)** **Sample Date:** 03/25/20 10:25 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	230	mg/L	5.0		03/30/20	03/30/20	2013096	
Ammonia as N (NH3-N)	EPA 350.1	0.29	mg/L	0.50	0.15	03/26/20	03/27/20	2013112	J
Bicarbonate (HCO3)	SM 2320 B	290	mg/L	5.0		03/30/20	03/30/20	2013096	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		03/30/20	03/30/20	2013096	
Chloride (Cl)	EPA 300.0	62	mg/L	1.0	0.075	03/26/20	03/26/20	2013099	
Specific Conductance (E.C.)	SM 2510B	670	umhos/cm	2.0	0.20	03/30/20	03/30/20	2013096	
Fluoride (F)	EPA 300.0	0.35	mg/L	0.10	0.026	03/26/20	03/26/20	2013099	
Hardness, Total (as CaCO3)	Calculated	260	mg/L	6.6		03/31/20	03/31/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		03/30/20	03/30/20	2013096	
Inorganic Nitrogen	Calculated	2.2	mg/L	1.3		03/26/20	03/27/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	1.9	mg/L	0.40	0.12	03/26/20	03/26/20	2013099	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	03/26/20	03/26/20	2013099	
pH (Lab)	SM 4500HB	8.2	pH Units			03/26/20	03/26/20	2013096	
Sulfate (SO4)	EPA 300.0	37	mg/L	0.50	0.14	03/26/20	03/26/20	2013099	
Total Filterable Residue/TDS	SM 2540C	390	mg/L	5.0	3.1	03/26/20	03/27/20	2013025	

Metals

Calcium (Ca)	EPA 200.7	65	mg/L	1.0	0.080	03/31/20	03/31/20	2014047	
Magnesium (Mg)	EPA 200.7	25	mg/L	1.0	0.51	03/31/20	03/31/20	2014047	
Potassium (K)	EPA 200.7	10	mg/L	1.0	0.18	03/31/20	03/31/20	2014047	
Sodium (Na)	EPA 200.7	72	mg/L	1.0	0.21	03/31/20	03/31/20	2014047	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface

Sub Project: Max Benefits - San Timoteo GMZ

Project Manager: Ashley Gibson

Work Order: 20C2093

Received: 03/26/20 08:55

Reported: 04/06/20

YVWD-Z **20C2093-03 (Water)** **Sample Date:** 03/25/20 11:01 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	230	mg/L	5.0		03/30/20	03/30/20	2013096	
Ammonia as N (NH3-N)	EPA 350.1	0.20	mg/L	0.50	0.15	03/26/20	03/27/20	2013112	J
Bicarbonate (HCO3)	SM 2320 B	280	mg/L	5.0		03/30/20	03/30/20	2013096	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		03/30/20	03/30/20	2013096	
Chloride (Cl)	EPA 300.0	62	mg/L	1.0	0.075	03/26/20	03/26/20	2013099	
Specific Conductance (E.C.)	SM 2510B	680	umhos/cm	2.0	0.20	03/30/20	03/30/20	2013096	
Fluoride (F)	EPA 300.0	0.34	mg/L	0.10	0.026	03/26/20	03/26/20	2013099	
Hardness, Total (as CaCO3)	Calculated	250	mg/L	6.6		03/31/20	03/31/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		03/30/20	03/30/20	2013096	
Inorganic Nitrogen	Calculated	1.9	mg/L	1.3		03/26/20	03/27/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	1.7	mg/L	0.40	0.12	03/26/20	03/26/20	2013099	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	03/26/20	03/26/20	2013099	
pH (Lab)	SM 4500HB	8.3	pH Units			03/26/20	03/26/20	2013096	
Sulfate (SO4)	EPA 300.0	38	mg/L	0.50	0.14	03/26/20	03/26/20	2013099	
Total Filterable Residue/TDS	SM 2540C	410	mg/L	5.0	3.1	03/26/20	03/27/20	2013025	

Metals

Calcium (Ca)	EPA 200.7	62	mg/L	1.0	0.080	03/31/20	03/31/20	2014047	
Magnesium (Mg)	EPA 200.7	23	mg/L	1.0	0.51	03/31/20	03/31/20	2014047	
Potassium (K)	EPA 200.7	9.1	mg/L	1.0	0.18	03/31/20	03/31/20	2014047	
Sodium (Na)	EPA 200.7	72	mg/L	1.0	0.21	03/31/20	03/31/20	2014047	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface
Sub Project: Max Benefits - San Timoteo GMZ
Project Manager: Ashley Gibson

Work Order: 20C2093
Received: 03/26/20 08:55
Reported: 04/06/20

YVWD-E **20C2093-04 (Water)** **Sample Date:** 03/25/20 11:40 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	220	mg/L	5.0		03/30/20	03/30/20	2013096	
Ammonia as N (NH3-N)	EPA 350.1	0.22	mg/L	0.50	0.15	03/26/20	03/27/20	2013112	J
Bicarbonate (HCO3)	SM 2320 B	240	mg/L	5.0		03/30/20	03/30/20	2013096	
Carbonate (CO3)	SM 2320B	14	mg/L	5.0		03/30/20	03/30/20	2013096	
Chloride (Cl)	EPA 300.0	58	mg/L	1.0	0.075	03/26/20	03/26/20	2013099	
Specific Conductance (E.C.)	SM 2510B	650	umhos/cm	2.0	0.20	03/30/20	03/30/20	2013096	
Fluoride (F)	EPA 300.0	0.33	mg/L	0.10	0.026	03/26/20	03/26/20	2013099	
Hardness, Total (as CaCO3)	Calculated	200	mg/L	6.6		03/31/20	03/31/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		03/30/20	03/30/20	2013096	
Inorganic Nitrogen	Calculated	1.8	mg/L	1.3		03/26/20	03/27/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	1.6	mg/L	0.40	0.12	03/26/20	03/26/20	2013099	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	03/26/20	03/26/20	2013099	
pH (Lab)	SM 4500HB	8.5	pH Units			03/26/20	03/26/20	2013096	
Sulfate (SO4)	EPA 300.0	38	mg/L	0.50	0.14	03/26/20	03/26/20	2013099	
Total Filterable Residue/TDS	SM 2540C	390	mg/L	5.0	3.1	03/27/20	04/01/20	2013138	

Metals

Calcium (Ca)	EPA 200.7	52	mg/L	1.0	0.080	03/31/20	03/31/20	2014047	
Magnesium (Mg)	EPA 200.7	16	mg/L	1.0	0.51	03/31/20	03/31/20	2014047	
Potassium (K)	EPA 200.7	6.3	mg/L	1.0	0.18	03/31/20	03/31/20	2014047	
Sodium (Na)	EPA 200.7	65	mg/L	1.0	0.21	03/31/20	03/31/20	2014047	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

0/0/7

WO 2002093

Clinical Lab of San Bernardino, Inc. Chain of Custody
 21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client		Destination Laboratory		Analysis Requested												Turn Around Time (TAT)																						
Yucaipa Valley Water District 880 W. County Line Road Yucaipa, CA 92399		[X] Clinical Grand Terrace / ELAP 1088 [] Clinical Lompoc / ELAP 1678 [] Other:		<table border="1"> <tr><th>Fluoride (EPA 300.0)</th><td></td></tr> <tr><th>Chloride (EPA 300.0)</th><td></td></tr> <tr><th>pH (SM 4500H+B)</th><td></td></tr> <tr><th>Specific Conductance (SM 2510B)</th><td></td></tr> <tr><th>Sulfate (EPA 300.0)</th><td></td></tr> <tr><th>Ca, Mg, K, Na (EPA 200.7)</th><td></td></tr> <tr><th>Alkalinity (inc. HCO3, CO3, and OH)</th><td></td></tr> <tr><th>Ammonia-N (EPA 350.1)</th><td></td></tr> <tr><th>Nitrite-N (EPA 300.0)</th><td></td></tr> <tr><th>Nitrate-N (EPA 300.0)</th><td></td></tr> <tr><th>Total Dissolved Solids (SM 2540C)</th><td></td></tr> </table>												Fluoride (EPA 300.0)		Chloride (EPA 300.0)		pH (SM 4500H+B)		Specific Conductance (SM 2510B)		Sulfate (EPA 300.0)		Ca, Mg, K, Na (EPA 200.7)		Alkalinity (inc. HCO3, CO3, and OH)		Ammonia-N (EPA 350.1)		Nitrite-N (EPA 300.0)		Nitrate-N (EPA 300.0)		Total Dissolved Solids (SM 2540C)		
Fluoride (EPA 300.0)																																						
Chloride (EPA 300.0)																																						
pH (SM 4500H+B)																																						
Specific Conductance (SM 2510B)																																						
Sulfate (EPA 300.0)																																						
Ca, Mg, K, Na (EPA 200.7)																																						
Alkalinity (inc. HCO3, CO3, and OH)																																						
Ammonia-N (EPA 350.1)																																						
Nitrite-N (EPA 300.0)																																						
Nitrate-N (EPA 300.0)																																						
Total Dissolved Solids (SM 2540C)																																						
System No.:		No. of Preserved Cont.		Matrix																																		
909-560-1370 FAX No.: 909-795-0402		Total Containers		SW																																		
Project: Max Benefits - San Timoteo GMZ		ChlorAC		SW																																		
Sampled By: Maddie Bw		ZnC4H6O4		SW																																		
Comments: Lina Robert (lrobert@yvwd.dst.ca.us) and Steven Stuart (sstuart@dudek.com)		Na2SO3		SW																																		
Date		NaOH		Time																																		
3/25/20 9:25		HCl		10:25																																		
10:25		HNO3		11:01																																		
11:01		C6H8O6		11:40																																		
11:40		NH4Cl		11:40																																		
		Na2S2O3																																				
		Unpreserved																																				
		Sample Type																																				
		Matrix																																				
		Container ID																																				

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other
 Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Date / Time	Received By (Sign)	Print Name / Company
<i>Maddie Bw</i>	3/25/20 12:21	<i>[Signature]</i>	Shoshko/CSS
<i>[Signature]</i>	3/26/20 8:20	<i>[Signature]</i>	Shoshko/CSS
<i>[Signature]</i>	3/26/20 8:55	<i>[Signature]</i>	Shoshko/CSS

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C
 Shipped Via: [] Fed Ex [] Golden State Overnight [] UPS [] OnTrac [] USPS [] Other
 Condition: [X] On Wet Ice [] On Blu Ice [X] Intact [] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____
 Receipt Comments: _____ Clinical Lab Receipt Temp.: 0.1 °C

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface

Sub Project: Max Benefits - San Timoteo GMZ

Project Manager: Ashley Gibson

Work Order: 20D0882

Received: 04/10/20 08:50

Reported: 04/22/20

YVWD-B **20D0882-02 (Water)** **Sample Date:** 04/09/20 12:23 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	230	mg/L	5.0		04/16/20	04/16/20	2015127	
Ammonia as N (NH3-N)	EPA 350.1	0.31	mg/L	0.50	0.15	04/15/20	04/16/20	2016084	J
Bicarbonate (HCO3)	SM 2320 B	270	mg/L	5.0		04/16/20	04/16/20	2015127	
Carbonate (CO3)	SM 2320B	2.9	mg/L	5.0		04/16/20	04/16/20	2015127	J
Chloride (Cl)	EPA 300.0	50	mg/L	1.0	0.075	04/10/20	04/10/20	2015145	
Specific Conductance (E.C.)	SM 2510B	630	umhos/cm	2.0	0.20	04/10/20	04/10/20	2015127	
Fluoride (F)	EPA 300.0	0.28	mg/L	0.10	0.026	04/10/20	04/10/20	2015145	
Hardness, Total (as CaCO3)	Calculated	300	mg/L	6.6		04/14/20	04/14/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		04/16/20	04/16/20	2015127	
Inorganic Nitrogen	Calculated	2.5	mg/L	1.3		04/15/20	04/16/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	2.2	mg/L	0.40	0.12	04/10/20	04/10/20	2015145	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	04/10/20	04/10/20	2015145	
pH (Lab)	SM 4500HB	8.4	pH Units			04/10/20	04/10/20	2015127	
Sulfate (SO4)	EPA 300.0	43	mg/L	0.50	0.14	04/10/20	04/10/20	2015145	
Total Filterable Residue/TDS	SM 2540C	360	mg/L	5.0	3.1	04/13/20	04/15/20	2016006	

Metals

Calcium (Ca)	EPA 200.7	73	mg/L	1.0	0.080	04/14/20	04/14/20	2016045	
Magnesium (Mg)	EPA 200.7	28	mg/L	1.0	0.51	04/14/20	04/14/20	2016045	
Potassium (K)	EPA 200.7	11	mg/L	1.0	0.18	04/14/20	04/14/20	2016045	
Sodium (Na)	EPA 200.7	71	mg/L	1.0	0.21	04/14/20	04/14/20	2016045	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface

Sub Project: Max Benefits - San Timoteo GMZ

Project Manager: Ashley Gibson

Work Order: 20D0882

Received: 04/10/20 08:50

Reported: 04/22/20

YVWD-Z 20D0882-03 (Water) Sample Date: 04/09/20 13:27 Sampler: Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO ₃)	SM 2320 B	240	mg/L	5.0		04/16/20	04/16/20	2015127	
Ammonia as N (NH ₃ -N)	EPA 350.1	0.34	mg/L	0.50	0.15	04/15/20	04/16/20	2016084	J
Bicarbonate (HCO ₃)	SM 2320 B	280	mg/L	5.0		04/16/20	04/16/20	2015127	
Carbonate (CO ₃)	SM 2320B	4.3	mg/L	5.0		04/16/20	04/16/20	2015127	J
Chloride (Cl)	EPA 300.0	50	mg/L	1.0	0.075	04/10/20	04/10/20	2015145	
Specific Conductance (E.C.)	SM 2510B	630	umhos/cm	2.0	0.20	04/10/20	04/10/20	2015127	
Fluoride (F)	EPA 300.0	0.33	mg/L	0.10	0.026	04/10/20	04/10/20	2015145	
Hardness, Total (as CaCO ₃)	Calculated	430	mg/L	6.6		04/14/20	04/14/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		04/16/20	04/16/20	2015127	
Inorganic Nitrogen	Calculated	2.4	mg/L	1.3		04/15/20	04/16/20	[CALC]	
Nitrate as N (NO ₃ -N)	EPA 300.0	2.0	mg/L	0.40	0.12	04/10/20	04/10/20	2015145	
Nitrite as N (NO ₂ -N)	EPA 300.0	ND	mg/L	0.40	0.17	04/10/20	04/10/20	2015145	
pH (Lab)	SM 4500HB	8.5	pH Units			04/10/20	04/10/20	2015127	
Sulfate (SO ₄)	EPA 300.0	41	mg/L	0.50	0.14	04/10/20	04/10/20	2015145	
Total Filterable Residue/TDS	SM 2540C	360	mg/L	5.0	3.1	04/13/20	04/15/20	2016006	

Metals

Calcium (Ca)	EPA 200.7	97	mg/L	1.0	0.080	04/14/20	04/14/20	2016045	
Magnesium (Mg)	EPA 200.7	44	mg/L	1.0	0.51	04/14/20	04/14/20	2016045	
Potassium (K)	EPA 200.7	16	mg/L	1.0	0.18	04/14/20	04/14/20	2016045	
Sodium (Na)	EPA 200.7	71	mg/L	1.0	0.21	04/14/20	04/14/20	2016045	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface

Sub Project: Max Benefits - San Timoteo GMZ

Project Manager: Ashley Gibson

Work Order: 20D0882

Received: 04/10/20 08:50

Reported: 04/22/20

YVWD-E **20D0882-04 (Water)** **Sample Date:** 04/09/20 13:55 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	180	mg/L	5.0		04/16/20	04/16/20	2015127	
Ammonia as N (NH3-N)	EPA 350.1	0.19	mg/L	0.50	0.15	04/15/20	04/16/20	2016084	J
Bicarbonate (HCO3)	SM 2320 B	210	mg/L	5.0		04/16/20	04/16/20	2015127	
Carbonate (CO3)	SM 2320B	4.3	mg/L	5.0		04/16/20	04/16/20	2015127	J
Chloride (Cl)	EPA 300.0	31	mg/L	1.0	0.075	04/10/20	04/10/20	2015145	
Specific Conductance (E.C.)	SM 2510B	450	umhos/cm	2.0	0.20	04/10/20	04/10/20	2015127	
Fluoride (F)	EPA 300.0	0.28	mg/L	0.10	0.026	04/10/20	04/10/20	2015145	
Hardness, Total (as CaCO3)	Calculated	280	mg/L	6.6		04/14/20	04/14/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		04/16/20	04/16/20	2015127	
Inorganic Nitrogen	Calculated	1.7	mg/L	1.3		04/15/20	04/16/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	1.5	mg/L	0.40	0.12	04/10/20	04/10/20	2015145	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	04/10/20	04/10/20	2015145	
pH (Lab)	SM 4500HB	8.5	pH Units			04/10/20	04/10/20	2015127	
Sulfate (SO4)	EPA 300.0	30	mg/L	0.50	0.14	04/10/20	04/10/20	2015145	
Total Filterable Residue/TDS	SM 2540C	290	mg/L	5.0	3.1	04/13/20	04/15/20	2016006	

Metals

Calcium (Ca)	EPA 200.7	69	mg/L	1.0	0.080	04/14/20	04/14/20	2016045	
Magnesium (Mg)	EPA 200.7	27	mg/L	1.0	0.51	04/14/20	04/14/20	2016045	
Potassium (K)	EPA 200.7	9.4	mg/L	1.0	0.18	04/14/20	04/14/20	2016045	
Sodium (Na)	EPA 200.7	49	mg/L	1.0	0.21	04/14/20	04/14/20	2016045	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

0/0/8

WO 200882

Clinical Lab of San Bernardino, Inc. Chain of Custody

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client		Destination Laboratory										Analysis Requested										Turn Around Time (TAT)
Yucaipa Valley Water District		[X] Clinical Grand Terrace / ELAP 1088 [] Clinical Lompoc / ELAP 1678 [] Other:										Fluoride (EPA 300.0) Chloride (EPA 300.0) pH (SM 4500H+B) Specific Conductance (SM 2510B) Sulfate (EPA 300.0) Ca, Mg, K, Na (EPA 200.7) Alkalinity (inc. HCO ₃ , CO ₃ , and OH) Ammonia-N (EPA 350.1) Nitrite-N (EPA 300.0) Nitrate-N (EPA 300.0) Total Dissolved Solids (SM 2540C)										
Address:		No. of Preserved Cont.		Sample Type		Matrix		Container ID		Sample Identification		Date / Time		Print Name / Company		Received By (Sign)		Print Name / Company				
880 W. County Line Road		ChlorAC		SW		SW		SW		SW		SW		SW		SW		SW				
Yucaipa, CA 92399		ZnC4H6O4		SW		SW		SW		SW		SW		SW		SW		SW				
Ashley Gibson		Na2SO3		SW		SW		SW		SW		SW		SW		SW		SW				
909-560-1370 FAX No.: 909-795-0402		NaOH		SW		SW		SW		SW		SW		SW		SW		SW				
System No.:		HCl		SW		SW		SW		SW		SW		SW		SW		SW				
Project:		HNO3		SW		SW		SW		SW		SW		SW		SW		SW				
Sampled By: <i>Madelene Pila</i>		C6H8O6		SW		SW		SW		SW		SW		SW		SW		SW				
Comments: <i>Max Benefits - San Timoteo GMZ</i>		NH4Cl		SW		SW		SW		SW		SW		SW		SW		SW				
Email results to: Lina Robert (lrobert@ywwd.dst.ca.us) and Steven Stuart (sstuart@dudek.com)		Na2S2O3		SW		SW		SW		SW		SW		SW		SW		SW				
Date		Unpreserved		SW		SW		SW		SW		SW		SW		SW		SW				
Time		Sample Type		SW		SW		SW		SW		SW		SW		SW		SW				
4/9/20	11:25	YVWD-A	3EA53	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW			
	12:29	YVWD-B	3EA54	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW			
	1:22	YVWD-Z	3EA56	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW			
	1:55	WWD-E		SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW			

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface

Sub Project: Max Benefits - San Timoteo GMZ

Project Manager: Ashley Gibson

Work Order: 20D1949

Received: 04/24/20 12:10

Reported: 05/06/20

YVWD-A **20D1949-01 (Water)** **Sample Date:** 04/23/20 11:50 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	300	mg/L	5.0		04/29/20	04/29/20	2017137	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	05/04/20	05/04/20	2019017	
Bicarbonate (HCO3)	SM 2320 B	350	mg/L	5.0		04/29/20	04/29/20	2017137	
Carbonate (CO3)	SM 2320B	7.7	mg/L	5.0		04/29/20	04/29/20	2017137	
Chloride (Cl)	EPA 300.0	88	mg/L	1.0	0.075	04/24/20	04/24/20	2017144	
Specific Conductance (E.C.)	SM 2510B	900	umhos/cm	2.0	0.20	04/24/20	04/24/20	2017137	
Fluoride (F)	EPA 300.0	0.58	mg/L	0.10	0.026	04/24/20	04/24/20	2017144	
Hardness, Total (as CaCO3)	Calculated	280	mg/L	6.6		05/04/20	05/04/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		04/29/20	04/29/20	2017137	
Inorganic Nitrogen	Calculated	1.2	mg/L	0.80		04/24/20	04/24/20	[CALC]	
Inorganic Nitrogen	Calculated	ND	mg/L	0.50		05/04/20	05/04/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	1.2	mg/L	0.40	0.12	04/24/20	04/24/20	2017144	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	04/24/20	04/24/20	2017144	
pH (Lab)	SM 4500HB	8.5	pH Units			04/24/20	04/24/20	2017137	
Sulfate (SO4)	EPA 300.0	45	mg/L	0.50	0.14	04/24/20	04/24/20	2017144	
Total Filterable Residue/TDS	SM 2540C	510	mg/L	5.0	3.1	04/24/20	04/28/20	2017138	

Metals

Calcium (Ca)	EPA 200.7	71	mg/L	1.0	0.080	05/04/20	05/04/20	2019015	
Magnesium (Mg)	EPA 200.7	24	mg/L	1.0	0.51	05/04/20	05/04/20	2019015	
Potassium (K)	EPA 200.7	12	mg/L	1.0	0.18	05/04/20	05/04/20	2019015	
Sodium (Na)	EPA 200.7	100	mg/L	5.0	1.1	05/04/20	05/04/20	2019015	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface

Sub Project: Max Benefits - San Timoteo GMZ

Project Manager: Ashley Gibson

Work Order: 20D1949

Received: 04/24/20 12:10

Reported: 05/06/20

YVWD-B **20D1949-02 (Water)** **Sample Date:** 04/23/20 11:03 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	280	mg/L	5.0		04/29/20	04/29/20	2017137	
Ammonia as N (NH3-N)	EPA 350.1	0.17	mg/L	0.50	0.15	04/30/20	05/01/20	2018117	J
Bicarbonate (HCO3)	SM 2320 B	330	mg/L	5.0		04/29/20	04/29/20	2017137	
Carbonate (CO3)	SM 2320B	4.3	mg/L	5.0		04/29/20	04/29/20	2017137	J
Chloride (Cl)	EPA 300.0	73	mg/L	1.0	0.075	04/24/20	04/24/20	2017144	
Specific Conductance (E.C.)	SM 2510B	750	umhos/cm	2.0	0.20	04/24/20	04/24/20	2017137	
Fluoride (F)	EPA 300.0	0.48	mg/L	0.10	0.026	04/24/20	04/24/20	2017144	
Hardness, Total (as CaCO3)	Calculated	300	mg/L	6.6		05/04/20	05/04/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		04/29/20	04/29/20	2017137	
Inorganic Nitrogen	Calculated	2.7	mg/L	1.3		04/30/20	05/01/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	2.5	mg/L	0.40	0.12	04/24/20	04/24/20	2017144	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	04/24/20	04/24/20	2017144	
pH (Lab)	SM 4500HB	8.4	pH Units			04/24/20	04/24/20	2017137	
Sulfate (SO4)	EPA 300.0	42	mg/L	0.50	0.14	04/24/20	04/24/20	2017144	
Total Filterable Residue/TDS	SM 2540C	450	mg/L	5.0	3.1	04/24/20	04/28/20	2017138	

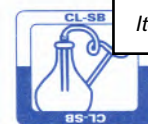
Metals

Calcium (Ca)	EPA 200.7	76	mg/L	1.0	0.080	05/04/20	05/04/20	2019015	
Magnesium (Mg)	EPA 200.7	26	mg/L	1.0	0.51	05/04/20	05/04/20	2019015	
Potassium (K)	EPA 200.7	12	mg/L	1.0	0.18	05/04/20	05/04/20	2019015	
Sodium (Na)	EPA 200.7	93	mg/L	1.0	0.21	05/04/20	05/04/20	2019015	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface

Sub Project: Max Benefits - San Timoteo GMZ

Project Manager: Ashley Gibson

Work Order: 20D1949

Received: 04/24/20 12:10

Reported: 05/06/20

YVWD-Z **20D1949-03 (Water)** **Sample Date:** 04/23/20 10:25 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	290	mg/L	5.0		04/29/20	04/29/20	2017137	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	04/30/20	05/01/20	2018117	
Bicarbonate (HCO3)	SM 2320 B	340	mg/L	5.0		04/29/20	04/29/20	2017137	
Carbonate (CO3)	SM 2320B	8.2	mg/L	5.0		04/29/20	04/29/20	2017137	
Chloride (Cl)	EPA 300.0	73	mg/L	1.0	0.075	04/24/20	04/24/20	2017144	
Specific Conductance (E.C.)	SM 2510B	790	umhos/cm	2.0	0.20	04/24/20	04/24/20	2017137	
Fluoride (F)	EPA 300.0	0.48	mg/L	0.10	0.026	04/24/20	04/24/20	2017144	
Hardness, Total (as CaCO3)	Calculated	280	mg/L	6.6		05/04/20	05/04/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		04/29/20	04/29/20	2017137	
Inorganic Nitrogen	Calculated	2.0	mg/L	1.3		04/30/20	05/01/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	2.0	mg/L	0.40	0.12	04/24/20	04/24/20	2017144	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	04/24/20	04/24/20	2017144	
pH (Lab)	SM 4500HB	8.5	pH Units			04/24/20	04/24/20	2017137	
Sulfate (SO4)	EPA 300.0	43	mg/L	0.50	0.14	04/24/20	04/24/20	2017144	
Total Filterable Residue/TDS	SM 2540C	460	mg/L	5.0	3.1	04/24/20	04/28/20	2017138	

Metals

Calcium (Ca)	EPA 200.7	74	mg/L	1.0	0.080	05/04/20	05/04/20	2019015	
Magnesium (Mg)	EPA 200.7	24	mg/L	1.0	0.51	05/04/20	05/04/20	2019015	
Potassium (K)	EPA 200.7	10	mg/L	1.0	0.18	05/04/20	05/04/20	2019015	
Sodium (Na)	EPA 200.7	92	mg/L	1.0	0.21	05/04/20	05/04/20	2019015	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

Clinical Lab of San Bernardino, Inc.

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Chain of Custody

o/d/p
WO 2001949

Client		Destination Laboratory												Analysis Requested		Turn Around Time (TAT)				
Yucaipa Valley Water District 880 W. County Line Road Yucaipa, CA 92399		<input checked="" type="checkbox"/> Clinical Grand Terrace / ELAP 1088 <input type="checkbox"/> Clinical Lompoc / ELAP 1678 <input type="checkbox"/> Other:												Fluoride (EPA 300.0) Chloride (EPA 300.0) pH (SM 4500H+B) Specific Conductance (SM 2510B) Sulfate (EPA 300.0) Ca, Mg, K, Na (EPA 200.7) Alkalinity (inc. HCO3, CO3, and OH) Ammonia-N (EPA 350.1) Nitrite-N (EPA 300.0) Nitrate-N (EPA 300.0) Total Dissolved Solids (SM 2540C)		10 10 10				
System No.:		No. of Preserved Cont.												Total Containers		Comments				
909-560-1370 FAX No.: 909-795-0402		ChlorAC ZnC4H6O4 Na2SO3 NaOH HCl HNO3 C6H8O6 NH4Cl Na2S2O3 Unpreserved												X X X X X X X X X X						
Project:		Sample Type		Matrix												Container ID		Date	Time	Sample Identification
Max Benefits - San Timoteo GMZ		SW		SW												YYWD-A 3EA53		4/23/20	1150	
Sampled By: <u>Madeline Bove</u>		SW		SW												YYWD-B 3EA54		4/23/20	1103	
Comments: <u>Madeline Bove</u>		SW		SW												YYWD-Z 3EA56		4/23/20	1025	
Email results to: Lina Robert (lrobert@yywd.dst.ca.us) and Steven Stuart (sstuart@dudek.com)																				
Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other																				
Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well																				
Relinquished By (Sign)				Print Name / Company				Date / Time				Received By (Sign)				Print Name / Company				
<u>Chris Martinez</u>				Chris Martinez				4/24/20 12:10				<u>Chris Martinez</u>				Chris Martinez				
(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C Shipped Via: <input type="checkbox"/> Fed Ex <input type="checkbox"/> Golden State Overnight <input type="checkbox"/> UPS <input type="checkbox"/> OnTrac <input type="checkbox"/> USPS <input type="checkbox"/> Other Condition: <input type="checkbox"/> On Wet Ice <input type="checkbox"/> On Blu Ice <input type="checkbox"/> Intact <input type="checkbox"/> Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____ Receipt Comments: _____ Clinical Lab Receipt Temp.: _____ C																				

3.1

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface
Sub Project: Max Benefits - San Timoteo GMZ
Project Manager: Ashley Gibson

Work Order: 20E0639
Received: 05/08/20 10:50
Reported: 05/20/20

YVWD-B **20E0639-02 (Water)** **Sample Date:** 05/07/20 11:25 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	260	mg/L	5.0		05/18/20	05/18/20	2019145	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	05/14/20	05/15/20	2020103	
Bicarbonate (HCO3)	SM 2320 B	300	mg/L	5.0		05/18/20	05/18/20	2019145	
Carbonate (CO3)	SM 2320B	7.7	mg/L	5.0		05/18/20	05/18/20	2019145	
Chloride (Cl)	EPA 300.0	75	mg/L	1.0	0.075	05/08/20	05/08/20	2019161	
Specific Conductance (E.C.)	SM 2510B	800	umhos/cm	2.0	0.20	05/08/20	05/08/20	2019145	
Fluoride (F)	EPA 300.0	0.52	mg/L	0.10	0.026	05/08/20	05/08/20	2019161	
Hardness, Total (as CaCO3)	Calculated	240	mg/L	33		05/15/20	05/15/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		05/18/20	05/18/20	2019145	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		05/14/20	05/15/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	1.2	mg/L	0.40	0.12	05/08/20	05/08/20	2019161	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	05/08/20	05/08/20	2019161	
pH (Lab)	SM 4500HB	8.5	pH Units			05/08/20	05/08/20	2019145	
Sulfate (SO4)	EPA 300.0	39	mg/L	0.50	0.14	05/08/20	05/08/20	2019161	
Total Filterable Residue/TDS	SM 2540C	440	mg/L	5.0	3.1	05/11/20	05/13/20	2020016	

Metals

Calcium (Ca)	EPA 200.7	63	mg/L	5.0	0.40	05/15/20	05/15/20	2020168	
Magnesium (Mg)	EPA 200.7	19	mg/L	5.0	2.6	05/15/20	05/15/20	2020168	
Potassium (K)	EPA 200.7	8.9	mg/L	5.0	0.90	05/15/20	05/15/20	2020168	
Sodium (Na)	EPA 200.7	93	mg/L	5.0	1.1	05/15/20	05/15/20	2020168	

Stu Styles
Client Services Manager

0/0/6
WO 20E0639

Clinical Lab of San Bernardino, Inc. Chain of Custody

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client		Destination Laboratory		Analysis Requested		Turn Around Time (TAT)	
Yucaipa Valley Water District		[X] Clinical Grand Terrace / ELAP 1088		Fluoride (EPA 300.0)		10	
880 W. County Line Road		[] Clinical Lompoc / ELAP 1678		Chloride (EPA 300.0)		10	
Yucaipa, CA 92399		[] Other:		pH (SM 4500H+B)		10	
Client Contact: Ashley Gibson		No. of Preserved Cont.		Specific Conductance (SM 2510B)			
Phone No.: 909-560-1370 FAX No.: 909-795-0402		ChlorAC		Sulfate (EPA 300.0)			
System No.:		ZnC4H6O4		Ca, Mg, K, Na (EPA 200.7)			
Project: Max Benefits - San Timoteo GMZ		Na2SO3		Alkalinity (inc. HCO3, CO3, and OH)			
Sampled By: <i>Madelene Bha</i>		NaOH		Ammonia-N (EPA 350.1)			
Comments:		HCl		Nitrite-N (EPA 300.0)			
Email results to: Lina Robert (lrobert@yvw.dst.ca.us) and Steven Stuart (sstuart@dudek.com)		HNO3		Nitrate-N (EPA 300.0)			
Date		C6H8O6		Total Dissolved Solids (SM 2540C)			
Time		NH4Cl					
Sample Identification		Na2S2O3					
5/7	1045	Unpreserved					
	125	Sample Type					
	115	Matrix					
		Container ID					
Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other							
Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well							
Relinquished By (Sign)		Date / Time		Received By (Sign)		Print Name / Company	
<i>Chris Martinez</i>		5/7/2020 12:50		<i>Chris Martinez</i>		Chris Martinez	
<i>Madelene Bha</i>		5/8/2020 10:50		<i>Rebecca Melara</i>		Rebecca Melara	
(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C							
Shipped Via: [] Fed Ex [] Golden State Overnight [] UPS [] OnTrac [] USPS [] Other							
Condition: [] On Wet Ice [] On Blu Ice [] Intact [] Custody Seals Samples / COC Checked By: _____							
Receipt Comments: _____ Work Order Logged By: _____							
Clinical Lab Receipt Temp.: 4.5 °C							

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface

Sub Project: Max Benefits - San Timoteo GMZ

Project Manager: Ashley Gibson

Work Order: 20E1678

Received: 05/21/20 10:00

Reported: 06/02/20

YVWD-A **20E1678-01 (Water)** **Sample Date:** 05/20/20 11:44 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	290	mg/L	5.0		05/29/20	05/29/20	2021113	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	05/29/20	05/29/20	2022118	
Bicarbonate (HCO3)	SM 2320 B	330	mg/L	5.0		05/29/20	05/29/20	2021113	
Carbonate (CO3)	SM 2320B	9.1	mg/L	5.0		05/29/20	05/29/20	2021113	
Chloride (Cl)	EPA 300.0	86	mg/L	1.0	0.075	05/21/20	05/21/20	2021118	
Specific Conductance (E.C.)	SM 2510B	860	umhos/cm	2.0	0.20	05/21/20	05/21/20	2021113	
Fluoride (F)	EPA 300.0	0.55	mg/L	0.10	0.026	05/21/20	05/21/20	2021118	
Hardness, Total (as CaCO3)	Calculated	240	mg/L	6.6		05/28/20	05/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		05/29/20	05/29/20	2021113	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		05/29/20	05/29/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	0.75	mg/L	0.40	0.12	05/21/20	05/21/20	2021118	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	05/21/20	05/21/20	2021118	
pH (Lab)	SM 4500HB	8.6	pH Units			05/21/20	05/21/20	2021113	
Sulfate (SO4)	EPA 300.0	33	mg/L	0.50	0.14	05/21/20	05/21/20	2021118	
Total Filterable Residue/TDS	SM 2540C	480	mg/L	5.0	3.1	05/26/20	05/28/20	2022027	

Metals

Calcium (Ca)	EPA 200.7	64	mg/L	1.0	0.080	05/28/20	05/28/20	2022095	
Magnesium (Mg)	EPA 200.7	19	mg/L	1.0	0.51	05/28/20	05/28/20	2022095	
Potassium (K)	EPA 200.7	11	mg/L	1.0	0.18	05/28/20	05/28/20	2022095	
Sodium (Na)	EPA 200.7	100	mg/L	1.0	0.21	05/28/20	05/28/20	2022095	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface
Sub Project: Max Benefits - San Timoteo GMZ
Project Manager: Ashley Gibson

Work Order: 20E1678
Received: 05/21/20 10:00
Reported: 06/02/20

YVWD-B **20E1678-02 (Water)** **Sample Date:** 05/20/20 11:10 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	270	mg/L	5.0		05/29/20	05/29/20	2021113	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	05/29/20	05/29/20	2022118	
Bicarbonate (HCO3)	SM 2320 B	310	mg/L	5.0		05/29/20	05/29/20	2021113	
Carbonate (CO3)	SM 2320B	7.2	mg/L	5.0		05/29/20	05/29/20	2021113	
Chloride (Cl)	EPA 300.0	75	mg/L	1.0	0.075	05/21/20	05/21/20	2021118	
Specific Conductance (E.C.)	SM 2510B	800	umhos/cm	2.0	0.20	05/21/20	05/21/20	2021113	
Fluoride (F)	EPA 300.0	0.52	mg/L	0.10	0.026	05/21/20	05/21/20	2021118	
Hardness, Total (as CaCO3)	Calculated	230	mg/L	6.6		05/28/20	05/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		05/29/20	05/29/20	2021113	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		05/29/20	05/29/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	1.0	mg/L	0.40	0.12	05/21/20	05/21/20	2021118	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	05/21/20	05/21/20	2021118	
pH (Lab)	SM 4500HB	8.5	pH Units			05/21/20	05/21/20	2021113	
Sulfate (SO4)	EPA 300.0	36	mg/L	0.50	0.14	05/21/20	05/21/20	2021118	
Total Filterable Residue/TDS	SM 2540C	450	mg/L	5.0	3.1	05/26/20	05/28/20	2022027	

Metals

Calcium (Ca)	EPA 200.7	62	mg/L	1.0	0.080	05/28/20	05/28/20	2022095	
Magnesium (Mg)	EPA 200.7	18	mg/L	1.0	0.51	05/28/20	05/28/20	2022095	
Potassium (K)	EPA 200.7	9.4	mg/L	1.0	0.18	05/28/20	05/28/20	2022095	
Sodium (Na)	EPA 200.7	93	mg/L	1.0	0.21	05/28/20	05/28/20	2022095	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface
Sub Project: Max Benefits - San Timoteo GMZ
Project Manager: Ashley Gibson

Work Order: 20E1678
Received: 05/21/20 10:00
Reported: 06/02/20

YVWD-Z **20E1678-03 (Water)** **Sample Date:** 05/20/20 10:42 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	270	mg/L	5.0		05/29/20	05/29/20	2021113	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	06/01/20	06/01/20	2023010	
Bicarbonate (HCO3)	SM 2320 B	300	mg/L	5.0		05/29/20	05/29/20	2021113	
Carbonate (CO3)	SM 2320B	11	mg/L	5.0		05/29/20	05/29/20	2021113	
Chloride (Cl)	EPA 300.0	75	mg/L	1.0	0.075	05/21/20	05/21/20	2021118	
Specific Conductance (E.C.)	SM 2510B	800	umhos/cm	2.0	0.20	05/21/20	05/21/20	2021113	
Fluoride (F)	EPA 300.0	0.52	mg/L	0.10	0.026	05/21/20	05/21/20	2021118	
Hardness, Total (as CaCO3)	Calculated	250	mg/L	6.6		05/28/20	05/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		05/29/20	05/29/20	2021113	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		06/01/20	06/01/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	0.88	mg/L	0.40	0.12	05/21/20	05/21/20	2021118	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	05/21/20	05/21/20	2021118	
pH (Lab)	SM 4500HB	8.6	pH Units			05/21/20	05/21/20	2021113	
Sulfate (SO4)	EPA 300.0	36	mg/L	0.50	0.14	05/21/20	05/21/20	2021118	
Total Filterable Residue/TDS	SM 2540C	440	mg/L	5.0	3.1	05/26/20	05/28/20	2022027	

Metals

Calcium (Ca)	EPA 200.7	69	mg/L	1.0	0.080	05/28/20	05/28/20	2022095	
Magnesium (Mg)	EPA 200.7	20	mg/L	1.0	0.51	05/28/20	05/28/20	2022095	
Potassium (K)	EPA 200.7	9.2	mg/L	1.0	0.18	05/28/20	05/28/20	2022095	
Sodium (Na)	EPA 200.7	95	mg/L	1.0	0.21	05/28/20	05/28/20	2022095	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface
Sub Project: Max Benefits - San Timoteo GMZ
Project Manager: Ashley Gibson

Work Order: 20F1773
Received: 06/19/20 14:05
Reported: 07/02/20

YVWD-Z **20F1773-03 (Water)** **Sample Date:** 06/18/20 13:34 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	290	mg/L	5.0		06/22/20	06/22/20	2025139	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	06/29/20	06/29/20	2027007	
Bicarbonate (HCO3)	SM 2320 B	330	mg/L	5.0		06/22/20	06/22/20	2025139	
Carbonate (CO3)	SM 2320B	8.2	mg/L	5.0		06/22/20	06/22/20	2025139	
Chloride (Cl)	EPA 300.0	80	mg/L	1.0	0.075	06/19/20	06/19/20	2025143	
Specific Conductance (E.C.)	SM 2510B	800	umhos/cm	2.0	0.20	06/19/20	06/19/20	2025139	
Fluoride (F)	EPA 300.0	0.58	mg/L	0.10	0.026	06/19/20	06/19/20	2025143	
Hardness, Total (as CaCO3)	Calculated	280	mg/L	6.6		06/25/20	06/25/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		06/22/20	06/22/20	2025139	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		06/29/20	06/29/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	0.67	mg/L	0.40	0.12	06/19/20	06/19/20	2025143	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	06/19/20	06/19/20	2025143	
pH (Lab)	SM 4500HB	8.7	pH Units			06/19/20	06/19/20	2025139	
Sulfate (SO4)	EPA 300.0	36	mg/L	0.50	0.14	06/19/20	06/19/20	2025143	
Total Filterable Residue/TDS	SM 2540C	460	mg/L	5.0	3.1	06/23/20	06/25/20	2026047	

Metals

Calcium (Ca)	EPA 200.7	76	mg/L	1.0	0.080	06/25/20	06/25/20	2026116	
Magnesium (Mg)	EPA 200.7	22	mg/L	1.0	0.51	06/25/20	06/25/20	2026116	
Potassium (K)	EPA 200.7	10	mg/L	1.0	0.18	06/25/20	06/25/20	2026116	
Sodium (Na)	EPA 200.7	91	mg/L	1.0	0.21	06/25/20	06/25/20	2026116	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

Clinical Lab of San Bernardino, Inc.

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Chain of Custody

6/16

WO 20FI773

Client		Destination Laboratory		Analysis Requested		Turn Around Time (TAT)	
Yucaipa Valley Water District 880 W. County Line Road Yucaipa, CA 92399		[X] Clinical Grand Terrace / ELAP 1088 [] Clinical Lompoc / ELAP 1678 [] Other:		Fluoride (EPA 300.0) Chloride (EPA 300.0) pH (SM 4500H+B) Specific Conductance (SM 2510B) Sulfate (EPA 300.0) Ca, Mg, K, Na (EPA 200.7) Alkalinity (inc. HCO3, CO3, and OH) Ammonia-N (EPA 350.1) Nitrite-N (EPA 300.0) Nitrate-N (EPA 300.0) Total Dissolved Solids (SM 2540C)		10 10 10	
Address		No. of Preserved Cont.		Sample Type		Matrix	
Yucaipa, CA 92399 Ashley Gibson 909-560-1370 FAX No.: 909-795-0402		Total Containers ChlorAC ZnC4H6O4 Na2SO3 NaOH HCl HNO3 C6H8O6 NH4Cl Na2S2O3 Unpreserved		SW SW SW		SW SW SW	
System No.:		Container ID		Date		Time	
Max Benefits - San Timoteo GMZ		Sample Identification		6/18/20 1430		1430	
Sampled By: <i>Modelia Blon</i>				6/18/20 1959		1959	
Comments:				6/18/20 1334		1334	
Email results to: Lina Robert (lrobert@yvwd.dst.ca.us) and Steven Stuart (sstuart@tudek.com)							
Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other		Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well		Date / Time		Received By (Sign)	
Print Name / Company		Date / Time <td colspan="2">Received By (Sign) <td colspan="2">Print Name / Company </td></td>		Received By (Sign) <td colspan="2">Print Name / Company </td>		Print Name / Company	
<i>Modelia Blon</i> <i>Max Benefits</i>		6/18/20 13:26 6-19-2020 12:45 14:05		<i>YVWD</i> <i>YVWD</i> <i>YVWD</i>		<i>MRS Martinez</i> <i>JTA CSB</i>	
(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C		Shipped Via: [] Fed Ex [] Golden State Overnight [] UPS [] OnTrac [] USPS [] Other		Condition: [] On Wet Ice [] On Blu Ice [] Intact [] Custody Seals		Work Order Logged By: _____	
Receipt Comments:		Clinical Lab Receipt Temp.: <u>2.1</u> °C					

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface

Sub Project: Max Benefits - San Timoteo GMZ

Project Manager: Ashley Gibson

Work Order: 20G0791

Received: 07/09/20 09:10

Reported: 07/22/20

YVWD-A **20G0791-01 (Water)** **Sample Date:** 07/08/20 14:57 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	280	mg/L	5.0		07/14/20	07/14/20	2028125	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	07/16/20	07/16/20	2029103	
Bicarbonate (HCO3)	SM 2320 B	310	mg/L	5.0		07/14/20	07/14/20	2028125	
Carbonate (CO3)	SM 2320B	15	mg/L	5.0		07/14/20	07/14/20	2028125	
Chloride (Cl)	EPA 300.0	84	mg/L	1.0	0.075	07/09/20	07/09/20	2028117	
Specific Conductance (E.C.)	SM 2510B	820	umhos/cm	2.0	0.20	07/09/20	07/09/20	2028125	
Fluoride (F)	EPA 300.0	0.38	mg/L	0.10	0.026	07/09/20	07/09/20	2028117	
Hardness, Total (as CaCO3)	Calculated	220	mg/L	6.6		07/16/20	07/16/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		07/14/20	07/14/20	2028125	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		07/16/20	07/16/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	0.83	mg/L	0.40	0.12	07/09/20	07/09/20	2028117	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	07/09/20	07/09/20	2028117	
pH (Lab)	SM 4500HB	8.6	pH Units			07/09/20	07/09/20	2028125	
Sulfate (SO4)	EPA 300.0	34	mg/L	0.50	0.14	07/09/20	07/09/20	2028117	
Total Filterable Residue/TDS	SM 2540C	470	mg/L	5.0	3.1	07/10/20	07/13/20	2028159	

Metals

Calcium (Ca)	EPA 200.7	56	mg/L	1.0	0.080	07/16/20	07/16/20	2029131	
Magnesium (Mg)	EPA 200.7	18	mg/L	1.0	0.51	07/16/20	07/16/20	2029131	
Potassium (K)	EPA 200.7	11	mg/L	1.0	0.18	07/16/20	07/16/20	2029131	
Sodium (Na)	EPA 200.7	91	mg/L	1.0	0.21	07/16/20	07/16/20	2029131	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface

Sub Project: Max Benefits - San Timoteo GMZ

Project Manager: Ashley Gibson

Work Order: 20G0791

Received: 07/09/20 09:10

Reported: 07/22/20

YVWD-B **20G0791-02 (Water)** **Sample Date:** 07/08/20 14:14 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	210	mg/L	5.0		07/14/20	07/14/20	2028125	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	07/16/20	07/16/20	2029103	
Bicarbonate (HCO3)	SM 2320 B	250	mg/L	5.0		07/14/20	07/14/20	2028125	
Carbonate (CO3)	SM 2320B	6.2	mg/L	5.0		07/14/20	07/14/20	2028125	
Chloride (Cl)	EPA 300.0	64	mg/L	1.0	0.075	07/09/20	07/09/20	2028117	
Specific Conductance (E.C.)	SM 2510B	660	umhos/cm	2.0	0.20	07/09/20	07/09/20	2028125	
Fluoride (F)	EPA 300.0	0.31	mg/L	0.10	0.026	07/09/20	07/09/20	2028117	
Hardness, Total (as CaCO3)	Calculated	190	mg/L	6.6		07/16/20	07/16/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		07/14/20	07/14/20	2028125	
Inorganic Nitrogen	Calculated	2.0	mg/L	1.3		07/16/20	07/16/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	2.0	mg/L	0.40	0.12	07/09/20	07/09/20	2028117	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	07/09/20	07/09/20	2028117	
pH (Lab)	SM 4500HB	8.5	pH Units			07/09/20	07/09/20	2028125	
Sulfate (SO4)	EPA 300.0	32	mg/L	0.50	0.14	07/09/20	07/09/20	2028117	
Total Filterable Residue/TDS	SM 2540C	380	mg/L	5.0	3.1	07/10/20	07/13/20	2028159	

Metals

Calcium (Ca)	EPA 200.7	51	mg/L	1.0	0.080	07/16/20	07/16/20	2029131	
Magnesium (Mg)	EPA 200.7	16	mg/L	1.0	0.51	07/16/20	07/16/20	2029131	
Potassium (K)	EPA 200.7	11	mg/L	1.0	0.18	07/16/20	07/16/20	2029131	
Sodium (Na)	EPA 200.7	78	mg/L	1.0	0.21	07/16/20	07/16/20	2029131	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface

Sub Project: Max Benefits - San Timoteo GMZ

Project Manager: Ashley Gibson

Work Order: 20G0791

Received: 07/09/20 09:10

Reported: 07/22/20

YVWD-Z **20G0791-03 (Water)** **Sample Date:** 07/08/20 13:31 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO₃)	SM 2320 B	290	mg/L	5.0		07/14/20	07/14/20	2028125	
Ammonia as N (NH ₃ -N)	EPA 350.1	ND	mg/L	0.50	0.15	07/16/20	07/16/20	2029103	
Bicarbonate (HCO₃)	SM 2320 B	300	mg/L	5.0		07/14/20	07/14/20	2028125	
Carbonate (CO₃)	SM 2320B	24	mg/L	5.0		07/14/20	07/14/20	2028125	
Chloride (Cl)	EPA 300.0	88	mg/L	1.0	0.075	07/09/20	07/09/20	2028117	
Specific Conductance (E.C.)	SM 2510B	830	umhos/cm	2.0	0.20	07/09/20	07/09/20	2028125	
Fluoride (F)	EPA 300.0	0.41	mg/L	0.10	0.026	07/09/20	07/09/20	2028117	
Hardness, Total (as CaCO₃)	Calculated	240	mg/L	6.6		07/16/20	07/16/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		07/14/20	07/14/20	2028125	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		07/16/20	07/16/20	[CALC]	
Nitrate as N (NO₃-N)	EPA 300.0	0.61	mg/L	0.40	0.12	07/09/20	07/09/20	2028117	
Nitrite as N (NO ₂ -N)	EPA 300.0	ND	mg/L	0.40	0.17	07/09/20	07/09/20	2028117	
pH (Lab)	SM 4500HB	8.9	pH Units			07/09/20	07/09/20	2028125	
Sulfate (SO₄)	EPA 300.0	41	mg/L	0.50	0.14	07/09/20	07/09/20	2028117	
Total Filterable Residue/TDS	SM 2540C	550	mg/L	5.0	3.1	07/10/20	07/13/20	2028159	

Metals

Calcium (Ca)	EPA 200.7	67	mg/L	1.0	0.080	07/16/20	07/16/20	2029131	
Magnesium (Mg)	EPA 200.7	18	mg/L	1.0	0.51	07/16/20	07/16/20	2029131	
Potassium (K)	EPA 200.7	10	mg/L	1.0	0.18	07/16/20	07/16/20	2029131	
Sodium (Na)	EPA 200.7	110	mg/L	5.0	1.1	07/20/20	07/20/20	2030023	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

Chain of Custody

WO 20070791

0/0/6

Clinical Lab of San Bernardino, Inc. / 21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client		Destination Laboratory		Analysis Requested		Turn Around Time (TAT)
Yucaipa Valley Water District 880 W. County Line Road Yucaipa, CA 92399 Client Contact: Ashley Gibson Phone No.: 909-560-1370 FAX No.: 909-795-0402 System No.: Project: Max Benefits - San Timoteo GMZ Sampled By: <i>Michelle Bha</i> Comments: Email results to: Lina Robert (lrobert@yvwd.dst.ca.us) and Steven Stuart (sstuart@dudek.com)		<input checked="" type="checkbox"/> Clinical Grand Terrace / ELAP 1088 <input type="checkbox"/> Clinical Lompoc / ELAP 1678 <input type="checkbox"/> Other:		Total Containers ChlorAC ZnC4H6O4 Na2SO3 NaOH HCl HNO3 C6H8O6 NH4Cl Na2S2O3 Unpreserved Sample Type Matrix		
Date	Time	Sample Identification	Container ID	Matrix	No. of Preserved Cont.	Comments
7/8/20	1457	YVWD-A 3EA53		SW	X	
7/8/20	1414	YVWD-B 3EA54		SW	X	
7/8/20	133	YVWD-Z 3EA56		SW	X	
Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush						
Relinquished By (Sign)		Print Name / Company		Date / Time	Received By (Sign)	
<i>[Signature]</i>		Michelle Bha		15:50 7/8/20	<i>[Signature]</i>	
<i>[Signature]</i>		Michelle Bha		7/9/2020 8:15	<i>[Signature]</i>	
<i>[Signature]</i>		Michelle Bha		7/9/2020 9:10	<i>[Signature]</i>	
(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C Shipped Via: <input type="checkbox"/> Fed Ex <input type="checkbox"/> Golden State Overnight <input type="checkbox"/> UPS <input type="checkbox"/> OnTrac <input type="checkbox"/> USPS <input type="checkbox"/> Other Condition: <input checked="" type="checkbox"/> On Wet Ice <input type="checkbox"/> On Blu Ice <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____ Receipt Comments: _____ Clinical Lab Receipt Temp.: <u>12</u> °C						

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface

Sub Project: Max Benefits - San Timoteo GMZ

Project Manager: Ashley Gibson

Work Order: 20G1650

Received: 07/17/20 12:30

Reported: 07/29/20

YVWD-B **20G1650-02 (Water)** **Sample Date:** 07/16/20 14:17 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	230	mg/L	5.0		07/21/20	07/21/20	2029120	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	07/23/20	07/23/20	2030090	
Bicarbonate (HCO3)	SM 2320 B	260	mg/L	5.0		07/21/20	07/21/20	2029120	
Carbonate (CO3)	SM 2320B	7.7	mg/L	5.0		07/21/20	07/21/20	2029120	
Chloride (Cl)	EPA 300.0	66	mg/L	1.0	0.075	07/17/20	07/17/20	2029161	
Specific Conductance (E.C.)	SM 2510B	680	umhos/cm	2.0	0.20	07/17/20	07/17/20	2029120	
Fluoride (F)	EPA 300.0	0.53	mg/L	0.10	0.026	07/17/20	07/17/20	2029161	
Hardness, Total (as CaCO3)	Calculated	180	mg/L	6.6		07/22/20	07/22/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		07/21/20	07/21/20	2029120	
Inorganic Nitrogen	Calculated	1.8	mg/L	1.3		07/23/20	07/23/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	1.8	mg/L	0.40	0.12	07/17/20	07/17/20	2029161	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	07/17/20	07/17/20	2029161	
pH (Lab)	SM 4500HB	8.5	pH Units			07/17/20	07/17/20	2029120	
Sulfate (SO4)	EPA 300.0	30	mg/L	0.50	0.14	07/17/20	07/17/20	2029161	
Total Filterable Residue/TDS	SM 2540C	380	mg/L	5.0	3.1	07/20/20	07/22/20	2030022	

Metals

Calcium (Ca)	EPA 200.7	48	mg/L	1.0	0.080	07/22/20	07/22/20	2030079	
Magnesium (Mg)	EPA 200.7	15	mg/L	1.0	0.51	07/22/20	07/22/20	2030079	
Potassium (K)	EPA 200.7	9.4	mg/L	1.0	0.18	07/22/20	07/22/20	2030079	
Sodium (Na)	EPA 200.7	78	mg/L	1.0	0.21	07/22/20	07/22/20	2030079	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface

Sub Project: Max Benefits - San Timoteo GMZ

Project Manager: Ashley Gibson

Work Order: 20G2680

Received: 07/31/20 12:15

Reported: 08/12/20

YVWD-A **20G2680-01 (Water)** **Sample Date:** 07/30/20 15:06 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	280	mg/L	5.0		08/03/20	08/03/20	2031127	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	08/06/20	08/06/20	2032082	
Bicarbonate (HCO3)	SM 2320 B	330	mg/L	5.0		08/03/20	08/03/20	2031127	
Carbonate (CO3)	SM 2320B	10	mg/L	5.0		08/03/20	08/03/20	2031127	
Chloride (Cl)	EPA 300.0	85	mg/L	1.0	0.075	07/31/20	07/31/20	2031135	
Specific Conductance (E.C.)	SM 2510B	840	umhos/cm	2.0	0.20	07/31/20	07/31/20	2031127	
Fluoride (F)	EPA 300.0	0.51	mg/L	0.10	0.026	07/31/20	07/31/20	2031135	
Hardness, Total (as CaCO3)	Calculated	230	mg/L	6.6		08/04/20	08/04/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		08/03/20	08/03/20	2031127	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		08/06/20	08/06/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	0.27	mg/L	0.40	0.12	07/31/20	07/31/20	2031135	J
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	07/31/20	07/31/20	2031135	
pH (Lab)	SM 4500HB	8.6	pH Units			07/31/20	07/31/20	2031127	
Sulfate (SO4)	EPA 300.0	33	mg/L	0.50	0.14	07/31/20	07/31/20	2031135	
Total Filterable Residue/TDS	SM 2540C	460	mg/L	5.0	3.1	08/03/20	08/04/20	2031130	

Metals

Calcium (Ca)	EPA 200.7	63	mg/L	1.0	0.080	08/04/20	08/04/20	2032049	
Magnesium (Mg)	EPA 200.7	19	mg/L	1.0	0.51	08/04/20	08/04/20	2032049	
Potassium (K)	EPA 200.7	13	mg/L	1.0	0.18	08/04/20	08/04/20	2032049	
Sodium (Na)	EPA 200.7	100	mg/L	1.0	0.21	08/04/20	08/04/20	2032049	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

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Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface

Sub Project: Max Benefits - San Timoteo GMZ

Project Manager: Ashley Gibson

Work Order: 20G2680

Received: 07/31/20 12:15

Reported: 08/12/20

YVWD-B **20G2680-02 (Water)** **Sample Date:** 07/30/20 14:42 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	240	mg/L	5.0		08/03/20	08/03/20	2031127	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	08/06/20	08/06/20	2032082	
Bicarbonate (HCO3)	SM 2320 B	280	mg/L	5.0		08/03/20	08/03/20	2031127	
Carbonate (CO3)	SM 2320B	4.8	mg/L	5.0		08/03/20	08/03/20	2031127	J
Chloride (Cl)	EPA 300.0	71	mg/L	1.0	0.075	07/31/20	07/31/20	2031135	
Specific Conductance (E.C.)	SM 2510B	730	umhos/cm	2.0	0.20	07/31/20	07/31/20	2031127	
Fluoride (F)	EPA 300.0	0.47	mg/L	0.10	0.026	07/31/20	07/31/20	2031135	
Hardness, Total (as CaCO3)	Calculated	200	mg/L	6.6		08/04/20	08/04/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		08/03/20	08/03/20	2031127	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		08/06/20	08/06/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	1.2	mg/L	0.40	0.12	07/31/20	07/31/20	2031135	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	07/31/20	07/31/20	2031135	
pH (Lab)	SM 4500HB	8.4	pH Units			07/31/20	07/31/20	2031127	
Sulfate (SO4)	EPA 300.0	30	mg/L	0.50	0.14	07/31/20	07/31/20	2031135	
Total Filterable Residue/TDS	SM 2540C	410	mg/L	5.0	3.1	08/03/20	08/04/20	2031130	

Metals

Calcium (Ca)	EPA 200.7	55	mg/L	1.0	0.080	08/04/20	08/04/20	2032049	
Magnesium (Mg)	EPA 200.7	15	mg/L	1.0	0.51	08/04/20	08/04/20	2032049	
Potassium (K)	EPA 200.7	8.5	mg/L	1.0	0.18	08/04/20	08/04/20	2032049	
Sodium (Na)	EPA 200.7	90	mg/L	1.0	0.21	08/04/20	08/04/20	2032049	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface

Sub Project: Max Benefits - San Timoteo GMZ

Project Manager: Ashley Gibson

Work Order: 20G2680

Received: 07/31/20 12:15

Reported: 08/12/20

YVWD-Z **20G2680-03 (Water)** **Sample Date:** 07/30/20 14:18 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO ₃)	SM 2320 B	260	mg/L	5.0		08/03/20	08/03/20	2031127	
Ammonia as N (NH ₃ -N)	EPA 350.1	ND	mg/L	0.50	0.15	08/06/20	08/06/20	2032082	
Bicarbonate (HCO ₃)	SM 2320 B	270	mg/L	5.0		08/03/20	08/03/20	2031127	
Carbonate (CO ₃)	SM 2320B	26	mg/L	5.0		08/03/20	08/03/20	2031127	
Chloride (Cl)	EPA 300.0	79	mg/L	1.0	0.075	07/31/20	07/31/20	2031135	
Specific Conductance (E.C.)	SM 2510B	790	umhos/cm	2.0	0.20	07/31/20	07/31/20	2031127	
Fluoride (F)	EPA 300.0	0.51	mg/L	0.10	0.026	07/31/20	07/31/20	2031135	
Hardness, Total (as CaCO ₃)	Calculated	190	mg/L	6.6		08/04/20	08/04/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		08/03/20	08/03/20	2031127	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		08/06/20	08/06/20	[CALC]	
Nitrate as N (NO ₃ -N)	EPA 300.0	0.78	mg/L	0.40	0.12	07/31/20	07/31/20	2031135	
Nitrite as N (NO ₂ -N)	EPA 300.0	ND	mg/L	0.40	0.17	07/31/20	07/31/20	2031135	
pH (Lab)	SM 4500HB	8.9	pH Units			07/31/20	07/31/20	2031127	
Sulfate (SO ₄)	EPA 300.0	36	mg/L	0.50	0.14	07/31/20	07/31/20	2031135	
Total Filterable Residue/TDS	SM 2540C	440	mg/L	5.0	3.1	08/03/20	08/04/20	2031130	

Metals

Calcium (Ca)	EPA 200.7	53	mg/L	1.0	0.080	08/04/20	08/04/20	2032049	
Magnesium (Mg)	EPA 200.7	14	mg/L	1.0	0.51	08/04/20	08/04/20	2032049	
Potassium (K)	EPA 200.7	7.7	mg/L	1.0	0.18	08/04/20	08/04/20	2032049	
Sodium (Na)	EPA 200.7	92	mg/L	1.0	0.21	08/04/20	08/04/20	2032049	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface

Sub Project: Max Benefits - San Timoteo GMZ

Project Manager: Ashley Gibson

Work Order: 20H1242

Received: 08/14/20 12:15

Reported: 08/26/20

YVWD-B **20H1242-02 (Water)** **Sample Date:** 08/13/20 14:29 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	210	mg/L	5.0		08/17/20	08/17/20	2033102	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	08/20/20	08/20/20	2034080	
Bicarbonate (HCO3)	SM 2320 B	240	mg/L	5.0		08/17/20	08/17/20	2033102	
Carbonate (CO3)	SM 2320B	9.6	mg/L	5.0		08/17/20	08/17/20	2033102	
Chloride (Cl)	EPA 300.0	66	mg/L	1.0	0.075	08/14/20	08/14/20	2033133	
Specific Conductance (E.C.)	SM 2510B	660	umhos/cm	2.0	0.20	08/17/20	08/17/20	2033102	
Fluoride (F)	EPA 300.0	0.47	mg/L	0.10	0.026	08/14/20	08/14/20	2033133	
Hardness, Total (as CaCO3)	Calculated	180	mg/L	6.6		08/25/20	08/25/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		08/17/20	08/17/20	2033102	
Inorganic Nitrogen	Calculated	1.5	mg/L	1.3		08/20/20	08/20/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	1.5	mg/L	0.40	0.12	08/14/20	08/14/20	2033133	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	08/14/20	08/14/20	2033133	
pH (Lab)	SM 4500HB	8.4	pH Units			08/14/20	08/14/20	2033102	
Sulfate (SO4)	EPA 300.0	29	mg/L	0.50	0.14	08/14/20	08/14/20	2033133	
Total Filterable Residue/TDS	SM 2540C	370	mg/L	5.0	3.1	08/18/20	08/19/20	2034036	

Metals

Calcium (Ca)	EPA 200.7	49	mg/L	1.0	0.080	08/25/20	08/25/20	2035035	
Magnesium (Mg)	EPA 200.7	14	mg/L	1.0	0.51	08/25/20	08/25/20	2035035	
Potassium (K)	EPA 200.7	9.3	mg/L	1.0	0.18	08/25/20	08/25/20	2035035	
Sodium (Na)	EPA 200.7	90	mg/L	1.0	0.21	08/25/20	08/25/20	2035035	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface

Sub Project: Max Benefits - San Timoteo GMZ

Project Manager: Ashley Gibson

Work Order: 20H2283

Received: 08/28/20 12:45

Reported: 09/09/20

YVWD-A **20H2283-01 (Water)** **Sample Date:** 08/27/20 14:37 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO₃)	SM 2320 B	260	mg/L	5.0		09/02/20	09/02/20	2035124	
Ammonia as N (NH ₃ -N)	EPA 350.1	ND	mg/L	0.50	0.15	08/31/20	08/31/20	2036004	
Bicarbonate (HCO₃)	SM 2320 B	290	mg/L	5.0		09/02/20	09/02/20	2035124	
Carbonate (CO₃)	SM 2320B	15	mg/L	5.0		09/02/20	09/02/20	2035124	
Chloride (Cl)	EPA 300.0	85	mg/L	1.0	0.075	08/28/20	08/28/20	2035126	
Specific Conductance (E.C.)	SM 2510B	840	umhos/cm	2.0	0.20	08/28/20	08/28/20	2035124	
Fluoride (F)	EPA 300.0	0.52	mg/L	0.10	0.026	08/28/20	08/28/20	2035126	
Hardness, Total (as CaCO₃)	Calculated	230	mg/L	6.6		09/02/20	09/02/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		09/02/20	09/02/20	2035124	
Inorganic Nitrogen	Calculated	2.1	mg/L	1.3		08/31/20	08/31/20	[CALC]	
Nitrate as N (NO₃-N)	EPA 300.0	2.1	mg/L	0.40	0.12	08/28/20	08/28/20	2035126	
Nitrite as N (NO ₂ -N)	EPA 300.0	ND	mg/L	0.40	0.17	08/28/20	08/28/20	2035126	
pH (Lab)	SM 4500HB	8.5	pH Units			08/28/20	08/28/20	2035124	
Sulfate (SO₄)	EPA 300.0	33	mg/L	0.50	0.14	08/28/20	08/28/20	2035126	
Total Filterable Residue/TDS	SM 2540C	500	mg/L	5.0	3.1	08/31/20	09/01/20	2035116	

Metals

Calcium (Ca)	EPA 200.7	60	mg/L	1.0	0.080	09/02/20	09/02/20	2036061	
Magnesium (Mg)	EPA 200.7	20	mg/L	1.0	0.51	09/02/20	09/02/20	2036061	
Potassium (K)	EPA 200.7	16	mg/L	1.0	0.18	09/02/20	09/02/20	2036061	
Sodium (Na)	EPA 200.7	95	mg/L	5.0	1.1	09/02/20	09/02/20	2036061	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

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Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface

Sub Project: Max Benefits - San Timoteo GMZ

Project Manager: Ashley Gibson

Work Order: 20H2283

Received: 08/28/20 12:45

Reported: 09/09/20

YVWD-B **20H2283-02 (Water)** **Sample Date:** 08/27/20 15:18 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	200	mg/L	5.0		09/02/20	09/02/20	2035124	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	08/31/20	08/31/20	2036004	
Bicarbonate (HCO3)	SM 2320 B	220	mg/L	5.0		09/02/20	09/02/20	2035124	
Carbonate (CO3)	SM 2320B	8.6	mg/L	5.0		09/02/20	09/02/20	2035124	
Chloride (Cl)	EPA 300.0	64	mg/L	1.0	0.075	08/28/20	08/28/20	2035126	
Specific Conductance (E.C.)	SM 2510B	650	umhos/cm	2.0	0.20	08/28/20	08/28/20	2035124	
Fluoride (F)	EPA 300.0	0.47	mg/L	0.10	0.026	08/28/20	08/28/20	2035126	
Hardness, Total (as CaCO3)	Calculated	160	mg/L	6.6		09/02/20	09/02/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		09/02/20	09/02/20	2035124	
Inorganic Nitrogen	Calculated	1.8	mg/L	1.3		08/31/20	08/31/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	1.8	mg/L	0.40	0.12	08/28/20	08/28/20	2035126	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	08/28/20	08/28/20	2035126	
pH (Lab)	SM 4500HB	8.5	pH Units			08/28/20	08/28/20	2035124	
Sulfate (SO4)	EPA 300.0	29	mg/L	0.50	0.14	08/28/20	08/28/20	2035126	
Total Filterable Residue/TDS	SM 2540C	380	mg/L	5.0	3.1	08/31/20	09/01/20	2035116	

Metals

Calcium (Ca)	EPA 200.7	42	mg/L	1.0	0.080	09/02/20	09/02/20	2036061	
Magnesium (Mg)	EPA 200.7	12	mg/L	1.0	0.51	09/02/20	09/02/20	2036061	
Potassium (K)	EPA 200.7	9.4	mg/L	1.0	0.18	09/02/20	09/02/20	2036061	
Sodium (Na)	EPA 200.7	82	mg/L	1.0	0.21	09/02/20	09/02/20	2036061	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

Clinical Lab of San Bernardino, Inc.

Chain of Custody

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

0/0/6/ WO2011102

Client		Destination Laboratory		Analysis Requested													Turn Around Time (TAT)								
Yucaipa Valley Water District 880 W. County Line Road Yucaipa, CA 92399		[X] Clinical Grand Terrace / ELAP 1088 [] Clinical Lompoc / ELAP 1678 [] Other:		Fluoride (EPA 300.0) Chloride (EPA 300.0) pH (SM 4500H+B) Specific Conductance (SM 2510B) Sulfate (EPA 300.0) Ca, Mg, K, Na (EPA 200.7) Alkalinity (inc. HCO3, CO3, and OH) Ammonia-N (EPA 350.1) Nitrite-N (EPA 300.0) Nitrate-N (EPA 300.0) Total Dissolved Solids (SM 2540C)																					
System No.: 909-560-1370 FAX No.: 909-795-0402		No. of Preserved Cont.		Matrix													Comments								
Date	Time	Sample Identification	Container ID	Sample Type	Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC	Total Containers										
9/10	13:18	YVWD-A 3EA53		SW	X											X	X	X	X	X	X	X	X		10
9/10	12:41	YVWD-B 3EA54		SW	X											X	X	X	X	X	X	X	X		10
9/10	12:17	YVWD-Z 3EA56		SW	X											X	X	X	X	X	X	X	X		10
				Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well																					
Relinquished By (Sign)		Print Name / Company		Date / Time		Received By (Sign)		Print Name / Company		TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush															
<i>[Signature]</i>		Madeline Blum (YVWD)		9/10/20 14:00		<i>[Signature]</i>		Chris Martinez		9/10/20 9:50															
<i>[Signature]</i>		Chris Martinez		9/10/20 12:35		<i>[Signature]</i>		Aylin P. CLSB		9/10/20 9:50															
				(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C Shipped Via: [] Fed Ex [] Golden State Overnight [] UPS [] OnTrac [] USPS [] Other Condition: [] On Wet Ice [] On Blu Ice [] Intact [] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____ Receipt Comments: _____ Clinical Lab Receipt Temp.: _____ °C																					

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface

Sub Project: Max Benefits - San Timoteo GMZ

Project Manager: Ashley Gibson

Work Order: 2012221

Received: 09/25/20 10:25

Reported: 10/07/20

YVWD-B **2012221-02 (Water)** **Sample Date:** 09/24/20 12:10 **Sampler:** German Padilla

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	250	mg/L	5.0		09/28/20	09/28/20	2039098	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	09/29/20	10/01/20	2040053	
Bicarbonate (HCO3)	SM 2320 B	280	mg/L	5.0		09/28/20	09/28/20	2039098	
Carbonate (CO3)	SM 2320B	9.6	mg/L	5.0		09/28/20	09/28/20	2039098	
Chloride (Cl)	EPA 300.0	84	mg/L	1.0	0.075	09/25/20	09/25/20	2039124	
Specific Conductance (E.C.)	SM 2510B	760	umhos/cm	2.0	0.20	09/28/20	09/28/20	2039098	
Fluoride (F)	EPA 300.0	0.56	mg/L	0.10	0.026	09/25/20	09/25/20	2039124	
Hardness, Total (as CaCO3)	Calculated	200	mg/L	6.6		10/06/20	10/06/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		09/28/20	09/28/20	2039098	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		09/29/20	10/01/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	1.2	mg/L	0.40	0.12	09/25/20	09/25/20	2039124	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	09/25/20	09/25/20	2039124	
pH (Lab)	SM 4500HB	8.5	pH Units			09/25/20	09/25/20	2039098	
Sulfate (SO4)	EPA 300.0	33	mg/L	0.50	0.14	09/25/20	09/25/20	2039124	
Total Filterable Residue/TDS	SM 2540C	450	mg/L	5.0	3.1	09/28/20	10/01/20	2040019	

Metals

Calcium (Ca)	EPA 200.7	56	mg/L	1.0	0.080	10/06/20	10/06/20	2041036	
Magnesium (Mg)	EPA 200.7	16	mg/L	1.0	0.51	10/06/20	10/06/20	2041036	
Potassium (K)	EPA 200.7	9.9	mg/L	1.0	0.18	10/06/20	10/06/20	2041036	
Sodium (Na)	EPA 200.7	96	mg/L	1.0	0.21	10/06/20	10/06/20	2041036	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface
Sub Project: Max Benefits - San Timoteo GMZ
Project Manager: Ashley Gibson

Work Order: 2012221
Received: 09/25/20 10:25
Reported: 10/07/20

YVWD-Z **2012221-03 (Water)** **Sample Date:** 09/24/20 11:22 **Sampler:** German Padilla

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	280	mg/L	5.0		09/28/20	09/28/20	2039098	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	09/29/20	10/01/20	2040053	
Bicarbonate (HCO3)	SM 2320 B	320	mg/L	5.0		09/28/20	09/28/20	2039098	
Carbonate (CO3)	SM 2320B	12	mg/L	5.0		09/28/20	09/28/20	2039098	
Chloride (Cl)	EPA 300.0	86	mg/L	1.0	0.075	09/25/20	09/25/20	2039124	
Specific Conductance (E.C.)	SM 2510B	800	umhos/cm	2.0	0.20	09/28/20	09/28/20	2039098	
Fluoride (F)	EPA 300.0	0.64	mg/L	0.10	0.026	09/25/20	09/25/20	2039124	
Hardness, Total (as CaCO3)	Calculated	340	mg/L	33		10/06/20	10/06/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		09/28/20	09/28/20	2039098	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		09/29/20	10/01/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	0.80	mg/L	0.40	0.12	09/25/20	09/25/20	2039124	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	09/25/20	09/25/20	2039124	
pH (Lab)	SM 4500HB	8.6	pH Units			09/25/20	09/25/20	2039098	
Sulfate (SO4)	EPA 300.0	35	mg/L	0.50	0.14	09/25/20	09/25/20	2039124	
Total Filterable Residue/TDS	SM 2540C	460	mg/L	5.0	3.1	09/28/20	10/01/20	2040019	

Metals

Calcium (Ca)	EPA 200.7	84	mg/L	5.0	0.40	10/06/20	10/06/20	2041036	
Magnesium (Mg)	EPA 200.7	32	mg/L	5.0	2.6	10/06/20	10/06/20	2041036	
Potassium (K)	EPA 200.7	14	mg/L	5.0	0.90	10/06/20	10/06/20	2041036	
Sodium (Na)	EPA 200.7	99	mg/L	5.0	1.1	10/06/20	10/06/20	2041036	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface

Sub Project: Max Benefits - San Timoteo GMZ

Project Manager: Ashley Gibson

Work Order: 2012360

Received: 09/29/20 10:30

Reported: 10/12/20

YVWD-A **2012360-01 (Water)** **Sample Date:** 09/28/20 14:53 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	290	mg/L	5.0		10/02/20	10/02/20	2040045	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	10/05/20	10/05/20	2041001	
Bicarbonate (HCO3)	SM 2320 B	330	mg/L	5.0		10/02/20	10/02/20	2040045	
Carbonate (CO3)	SM 2320B	11	mg/L	5.0		10/02/20	10/02/20	2040045	
Chloride (Cl)	EPA 300.0	87	mg/L	1.0	0.075	09/29/20	09/29/20	2040051	
Specific Conductance (E.C.)	SM 2510B	830	umhos/cm	2.0	0.20	10/02/20	10/02/20	2040045	
Fluoride (F)	EPA 300.0	0.62	mg/L	0.10	0.026	09/29/20	09/29/20	2040051	
Hardness, Total (as CaCO3)	Calculated	230	mg/L	6.6		10/08/20	10/08/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		10/02/20	10/02/20	2040045	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		10/05/20	10/05/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	0.85	mg/L	0.40	0.12	09/29/20	09/29/20	2040051	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	09/29/20	09/29/20	2040051	
pH (Lab)	SM 4500HB	8.5	pH Units			09/29/20	09/29/20	2040045	
Sulfate (SO4)	EPA 300.0	33	mg/L	0.50	0.14	09/29/20	09/29/20	2040051	
Total Filterable Residue/TDS	SM 2540C	490	mg/L	5.0	3.1	09/30/20	10/01/20	2040078	

Metals

Calcium (Ca)	EPA 200.7	59	mg/L	1.0	0.080	10/08/20	10/08/20	2041117	
Magnesium (Mg)	EPA 200.7	19	mg/L	1.0	0.51	10/08/20	10/08/20	2041117	
Potassium (K)	EPA 200.7	11	mg/L	1.0	0.18	10/08/20	10/08/20	2041117	
Sodium (Na)	EPA 200.7	100	mg/L	1.0	0.21	10/08/20	10/08/20	2041117	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface

Sub Project: Max Benefits - San Timoteo GMZ

Project Manager: Ashley Gibson

Work Order: 2012360

Received: 09/29/20 10:30

Reported: 10/12/20

YVWD-Z **2012360-03 (Water)** **Sample Date:** 09/28/20 13:35 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO ₃)	SM 2320 B	340	mg/L	5.0		10/02/20	10/02/20	2040045	
Ammonia as N (NH ₃ -N)	EPA 350.1	ND	mg/L	0.50	0.15	10/05/20	10/05/20	2041001	
Bicarbonate (HCO ₃)	SM 2320 B	400	mg/L	5.0		10/02/20	10/02/20	2040045	
Carbonate (CO ₃)	SM 2320B	5.8	mg/L	5.0		10/02/20	10/02/20	2040045	
Chloride (Cl)	EPA 300.0	80	mg/L	1.0	0.075	09/29/20	09/29/20	2040051	
Specific Conductance (E.C.)	SM 2510B	760	umhos/cm	2.0	0.20	10/02/20	10/02/20	2040045	
Fluoride (F)	EPA 300.0	0.64	mg/L	0.10	0.026	09/29/20	09/29/20	2040051	
Hardness, Total (as CaCO ₃)	Calculated	540	mg/L	33		10/08/20	10/08/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		10/02/20	10/02/20	2040045	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		10/05/20	10/05/20	[CALC]	
Nitrate as N (NO ₃ -N)	EPA 300.0	0.82	mg/L	0.40	0.12	09/29/20	09/29/20	2040051	
Nitrite as N (NO ₂ -N)	EPA 300.0	ND	mg/L	0.40	0.17	09/29/20	09/29/20	2040051	
pH (Lab)	SM 4500HB	8.4	pH Units			09/29/20	09/29/20	2040045	
Sulfate (SO ₄)	EPA 300.0	35	mg/L	0.50	0.14	09/29/20	09/29/20	2040051	
Total Filterable Residue/TDS	SM 2540C	450	mg/L	5.0	3.1	09/30/20	10/01/20	2040078	

Metals

Calcium (Ca)	EPA 200.7	150	mg/L	5.0	0.40	10/08/20	10/08/20	2041117	
Magnesium (Mg)	EPA 200.7	42	mg/L	5.0	2.6	10/08/20	10/08/20	2041117	
Potassium (K)	EPA 200.7	14	mg/L	5.0	0.90	10/08/20	10/08/20	2041117	
Sodium (Na)	EPA 200.7	99	mg/L	5.0	1.1	10/08/20	10/08/20	2041117	

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

Clinical Lab of San Bernardino, Inc. Chain of Custody
21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client		Destination Laboratory		Analysis Requested		Turn Around Time (TAT)	
Yucaipa Valley Water District 880 W. County Line Road Yucaipa, CA 92399		[X] Clinical Grand Terrace / ELAP 1088 [] Clinical Lompoc / ELAP 1678 [] Other:		Fluoride (EPA 300.0) Chloride (EPA 300.0) pH (SM 4500H+B) Specific Conductance (SM 2510B) Sulfate (EPA 300.0) Ca, Mg, K, Na (EPA 200.7) Alkalinity (inc. HCO3, CO3, and OH) Ammonia-N (EPA 350.1) Nitrite-N (EPA 300.0) Nitrate-N (EPA 300.0) Total Dissolved Solids (SM 2540C)		Comments	
Client Contact: Ashley Gibson Phone No.: 909-560-1370 FAX No.: 909-795-0402 System No.: <i>C. Martinez</i> Project: Max Benefits - San Timoteo GMZ Sampled By: <i>SA</i> Comments: Email results to: Lina Robert (lrobert@yywd.dst.ca.us) and Steven Stuart (sstuart@dudek.com)		No. of Preserved Cont. Total Containers ChlorAC ZnCl2H6O4 Na2SO3 NaOH HCl HNO3 C6H8O6 NH4Cl Na2S2O3 Unpreserved		Sample Type		Received By (Sign)	
Container ID		Matrix		Date / Time		Print Name / Company	
Date	Time	Sample Identification	Matrix	Sample Type	Unpreserved	Date / Time	Print Name / Company
1/28/12	2:53	YYWD-A 3EA53	SW	X		9-15 9:29 AM <i>Chris Martinez</i>	
	2:01	YYWD-B 3EA54	SW	X		9-29-20 10:36 <i>Alynn P. C. S. B.</i>	
	1:37	YYWD-Z 3EA56	SW	X			
Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other							
Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well							
Relinquished By (Sign)		Print Name / Company		Date / Time		Received By (Sign)	
<i>Chris Martinez</i>		Chris Martinez		9-29-20 10:36		<i>Chris Martinez</i>	
TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush		Clinical Lab Receipt Temp.: _____ °C		Shipped Via: [] Fed Ex [] Golden State Overnight [] UPS [] OnTrac [] USPS [] Other		Work Order Logged By: _____	
Condition: [] On Wet Ice [] On Blu Ice [] Intact [] Custody Seals		Samples / COC Checked By: _____		Clinical Lab Receipt Temp.: <u>3</u> °C			
Receipt Comments:							

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface

Sub Project: Max Benefits - San Timoteo GMZ

Project Manager: Ashley Gibson

Work Order: 20J0662

Received: 10/08/20 09:00

Reported: 10/16/20

YVWD-B **20J0662-02 (Water)** **Sample Date:** 10/07/20 14:19 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	220	mg/L	5.0		10/12/20	10/12/20	2041107	
Ammonia as N (NH3-N)	EPA 350.1	0.17	mg/L	0.50	0.15	10/12/20	10/12/20	2042004	J
Bicarbonate (HCO3)	SM 2320 B	240	mg/L	5.0		10/12/20	10/12/20	2041107	
Carbonate (CO3)	SM 2320B	12	mg/L	5.0		10/12/20	10/12/20	2041107	
Chloride (Cl)	EPA 300.0	73	mg/L	1.0	0.075	10/08/20	10/08/20	2041113	
Specific Conductance (E.C.)	SM 2510B	690	umhos/cm	2.0	0.20	10/08/20	10/08/20	2041107	
Fluoride (F)	EPA 300.0	0.49	mg/L	0.10	0.026	10/08/20	10/08/20	2041113	
Hardness, Total (as CaCO3)	Calculated	170	mg/L	6.6		10/15/20	10/15/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		10/12/20	10/12/20	2041107	
Inorganic Nitrogen	Calculated	1.8	mg/L	1.3		10/12/20	10/12/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	1.6	mg/L	0.40	0.12	10/08/20	10/08/20	2041113	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	10/08/20	10/08/20	2041113	
pH (Lab)	SM 4500HB	8.4	pH Units			10/08/20	10/08/20	2041107	
Sulfate (SO4)	EPA 300.0	32	mg/L	0.50	0.14	10/08/20	10/08/20	2041113	
Total Filterable Residue/TDS	SM 2540C	390	mg/L	5.0	3.1	10/09/20	10/12/20	2041118	

Metals

Calcium (Ca)	EPA 200.7	47	mg/L	1.0	0.080	10/15/20	10/15/20	2042112	
Magnesium (Mg)	EPA 200.7	13	mg/L	1.0	0.51	10/15/20	10/15/20	2042112	
Potassium (K)	EPA 200.7	9.0	mg/L	1.0	0.18	10/15/20	10/15/20	2042112	
Sodium (Na)	EPA 200.7	90	mg/L	1.0	0.21	10/15/20	10/15/20	2042112	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater
12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface
Sub Project: Max Benefits - San Timoteo GMZ
Project Manager: Ashley Gibson

Work Order: 20J0662
Received: 10/08/20 09:00
Reported: 10/16/20

YVWD-Z

20J0662-03 (Water)

Sample Date: 10/07/20 13:08

Sampler: Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	280	mg/L	5.0		10/12/20	10/12/20	2041107	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	10/12/20	10/12/20	2042004	
Bicarbonate (HCO3)	SM 2320 B	320	mg/L	5.0		10/12/20	10/12/20	2041107	
Carbonate (CO3)	SM 2320B	9.1	mg/L	5.0		10/12/20	10/12/20	2041107	
Chloride (Cl)	EPA 300.0	83	mg/L	1.0	0.075	10/08/20	10/08/20	2041113	
Specific Conductance (E.C.)	SM 2510B	810	umhos/cm	2.0	0.20	10/08/20	10/08/20	2041107	
Fluoride (F)	EPA 300.0	0.68	mg/L	0.10	0.026	10/08/20	10/08/20	2041113	
Hardness, Total (as CaCO3)	Calculated	290	mg/L	6.6		10/15/20	10/15/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		10/12/20	10/12/20	2041107	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		10/12/20	10/12/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	0.49	mg/L	0.40	0.12	10/08/20	10/08/20	2041113	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	10/08/20	10/08/20	2041113	
pH (Lab)	SM 4500HB	8.4	pH Units			10/08/20	10/08/20	2041107	
Sulfate (SO4)	EPA 300.0	33	mg/L	0.50	0.14	10/08/20	10/08/20	2041113	
Total Filterable Residue/TDS	SM 2540C	450	mg/L	5.0	3.1	10/12/20	10/15/20	2042025	

Metals

Calcium (Ca)	EPA 200.7	75	mg/L	1.0	0.080	10/15/20	10/15/20	2042112	
Magnesium (Mg)	EPA 200.7	24	mg/L	1.0	0.51	10/15/20	10/15/20	2042112	
Potassium (K)	EPA 200.7	11	mg/L	1.0	0.18	10/15/20	10/15/20	2042112	
Sodium (Na)	EPA 200.7	110	mg/L	5.0	1.1	10/15/20	10/15/20	2042112	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles

Client Services Manager

0/0/6
WO 20J0662

Clinical Lab of San Bernardino, Inc. Chain of Custody
 21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client		Destination Laboratory										Analysis Requested									
Yucaipa Valley Water District		[X] Clinical Grand Terrace / ELAP 1088										Fluoride (EPA 300.0)									
880 W. County Line Road		[] Clinical Lompoc / ELAP 1678										Chloride (EPA 300.0)									
Yucaipa, CA 92399		[] Other:										pH (SM 4500H+B)									
Client Contact: Ashley Gibson												Specific Conductance (SM 2510B)									
Phone No.: 909-560-1370 FAX No.: 909-795-0402												Sulfate (EPA 300.0)									
System No.:												Ca, Mg, K, Na (EPA 200.7)									
Project: Max Benefits - San Timoteo GMZ												Alkalinity (inc. HCO3, CO3, and OH)									
Sampled By: Madeline Birn												Ammonia-N (EPA 350.1)									
Comments:												Nitrite-N (EPA 300.0)									
Email results to: Lina Robert (lrobert@yywd.dst.ca.us) and Steven Stuart (sstuart@dudek.com)												Nitrate-N (EPA 300.0)									
Date	Time	Sample Identification										Turn Around Time (TAT)									
10/7/20	1445	YYWD-A 3EA53										10									
10/7/20	1449	YYWD-B 3EA54										10									
10/7/20	1308	YYWD-Z 3EA56										10									
Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other																					
Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well																					
Relinquished By (Sign)												Date / Time				Received By (Sign)				Print Name / Company	
[Signature]												10/8/2020 10:17				[Signature]				SK Styles / CCS	
[Signature]												10/8/2020 840				[Signature]				SK Styles / CCS	
[Signature]												10/8/2020 900				[Signature]				SK Styles / CCS	
(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C																					
Shipped Via: [] Fed Ex [] Golden State Overnight [] UPS [] OnTrac [] USPS [] Other																					
Condition: [X] On Wet Ice [] On Blu Ice [X] Intact [] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____																					
Receipt Comments: _____ Clinical Lab Receipt Temp.: 2.2 °C																					

Clinical Laboratory of San Bernardino, Inc.

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Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface

Sub Project: Max Benefits - San Timoteo GMZ

Project Manager: Ashley Gibson

Work Order: 20J1959

Received: 10/23/20 10:25

Reported: 11/04/20

YVWD-A **20J1959-01 (Water)** **Sample Date:** 10/22/20 15:42 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	280	mg/L	5.0		10/29/20	10/29/20	2043132	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	10/28/20	10/28/20	2044036	
Bicarbonate (HCO3)	SM 2320 B	330	mg/L	5.0		10/29/20	10/29/20	2043132	
Carbonate (CO3)	SM 2320B	5.3	mg/L	5.0		10/29/20	10/29/20	2043132	
Chloride (Cl)	EPA 300.0	89	mg/L	1.0	0.075	10/23/20	10/23/20	2043134	
Specific Conductance (E.C.)	SM 2510B	830	umhos/cm	2.0	0.20	10/23/20	10/23/20	2043132	
Fluoride (F)	EPA 300.0	0.55	mg/L	0.10	0.026	10/23/20	10/23/20	2043134	
Hardness, Total (as CaCO3)	Calculated	240	mg/L	6.6		10/28/20	10/29/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		10/29/20	10/29/20	2043132	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		10/28/20	10/28/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	0.77	mg/L	0.40	0.12	10/23/20	10/23/20	2043134	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	10/23/20	10/23/20	2043134	
pH (Lab)	SM 4500HB	8.4	pH Units			10/23/20	10/23/20	2043132	
Sulfate (SO4)	EPA 300.0	32	mg/L	0.50	0.14	10/23/20	10/23/20	2043134	
Total Filterable Residue/TDS	SM 2540C	460	mg/L	5.0	3.1	10/26/20	10/28/20	2044003	

Metals

Calcium (Ca)	EPA 200.7	65	mg/L	1.0	0.080	10/28/20	10/29/20	2044069	
Magnesium (Mg)	EPA 200.7	19	mg/L	1.0	0.51	10/28/20	10/29/20	2044069	
Potassium (K)	EPA 200.7	12	mg/L	1.0	0.18	10/28/20	10/29/20	2044069	
Sodium (Na)	EPA 200.7	99	mg/L	1.0	0.21	10/28/20	10/29/20	2044069	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

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Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface

Sub Project: Max Benefits - San Timoteo GMZ

Project Manager: Ashley Gibson

Work Order: 20J1959

Received: 10/23/20 10:25

Reported: 11/04/20

YVWD-B 20J1959-02 (Water) Sample Date: 10/22/20 14:57 Sampler: Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	210	mg/L	5.0		10/29/20	10/29/20	2043132	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/02/20	11/03/20	2045027	
Bicarbonate (HCO3)	SM 2320 B	240	mg/L	5.0		10/29/20	10/29/20	2043132	
Carbonate (CO3)	SM 2320B	4.8	mg/L	5.0		10/29/20	10/29/20	2043132	J
Chloride (Cl)	EPA 300.0	72	mg/L	1.0	0.075	10/23/20	10/23/20	2043134	
Specific Conductance (E.C.)	SM 2510B	670	umhos/cm	2.0	0.20	10/23/20	10/23/20	2043132	
Fluoride (F)	EPA 300.0	0.47	mg/L	0.10	0.026	10/23/20	10/23/20	2043134	
Hardness, Total (as CaCO3)	Calculated	180	mg/L	33		10/28/20	10/29/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		10/29/20	10/29/20	2043132	
Inorganic Nitrogen	Calculated	1.3	mg/L	1.3		11/02/20	11/03/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	1.3	mg/L	0.40	0.12	10/23/20	10/23/20	2043134	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	10/23/20	10/23/20	2043134	
pH (Lab)	SM 4500HB	8.4	pH Units			10/23/20	10/23/20	2043132	
Sulfate (SO4)	EPA 300.0	33	mg/L	0.50	0.14	10/23/20	10/23/20	2043134	
Total Filterable Residue/TDS	SM 2540C	370	mg/L	5.0	3.1	10/26/20	10/28/20	2044003	

Metals

Calcium (Ca)	EPA 200.7	49	mg/L	5.0	0.40	10/28/20	10/29/20	2044069	
Magnesium (Mg)	EPA 200.7	14	mg/L	5.0	2.6	10/28/20	10/29/20	2044069	
Potassium (K)	EPA 200.7	11	mg/L	5.0	0.90	10/28/20	10/29/20	2044069	
Sodium (Na)	EPA 200.7	90	mg/L	5.0	1.1	10/28/20	10/29/20	2044069	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

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Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface

Sub Project: Max Benefits - San Timoteo GMZ

Project Manager: Ashley Gibson

Work Order: 20K0620

Received: 11/06/20 12:20

Reported: 11/18/20

YVWD-A **20K0620-01 (Water)** **Sample Date:** 11/05/20 14:43 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	250	mg/L	5.0		11/13/20	11/13/20	2045151	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/13/20	11/13/20	2046142	
Bicarbonate (HCO3)	SM 2320 B	310	mg/L	5.0		11/13/20	11/13/20	2045151	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		11/13/20	11/13/20	2045151	
Chloride (Cl)	EPA 300.0	76	mg/L	1.0	0.075	11/06/20	11/06/20	2045160	
Specific Conductance (E.C.)	SM 2510B	740	umhos/cm	2.0	0.20	11/06/20	11/06/20	2045151	
Fluoride (F)	EPA 300.0	0.50	mg/L	0.10	0.026	11/06/20	11/06/20	2045160	
Hardness, Total (as CaCO3)	Calculated	200	mg/L	6.6		11/12/20	11/12/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		11/13/20	11/13/20	2045151	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		11/13/20	11/13/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	0.38	mg/L	0.40	0.12	11/06/20	11/06/20	2045160	J
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/06/20	11/06/20	2045160	
pH (Lab)	SM 4500HB	8.1	pH Units			11/06/20	11/06/20	2045151	
Sulfate (SO4)	EPA 300.0	29	mg/L	0.50	0.14	11/06/20	11/06/20	2045160	
Total Filterable Residue/TDS	SM 2540C	420	mg/L	5.0	3.1	11/09/20	11/11/20	2046002	

Metals

Calcium (Ca)	EPA 200.7	53	mg/L	1.0	0.080	11/12/20	11/12/20	2046120	
Magnesium (Mg)	EPA 200.7	16	mg/L	1.0	0.51	11/12/20	11/12/20	2046120	
Potassium (K)	EPA 200.7	9.1	mg/L	1.0	0.18	11/12/20	11/12/20	2046120	
Sodium (Na)	EPA 200.7	84	mg/L	1.0	0.21	11/12/20	11/12/20	2046120	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

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Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface

Sub Project: Max Benefits - San Timoteo GMZ

Project Manager: Ashley Gibson

Work Order: 20K0620

Received: 11/06/20 12:20

Reported: 11/18/20

YVWD-B **20K0620-02 (Water)** **Sample Date:** 11/05/20 14:14 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	200	mg/L	5.0		11/13/20	11/13/20	2045151	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/13/20	11/13/20	2046142	
Bicarbonate (HCO3)	SM 2320 B	240	mg/L	5.0		11/13/20	11/13/20	2045151	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		11/13/20	11/13/20	2045151	
Chloride (Cl)	EPA 300.0	65	mg/L	1.0	0.075	11/06/20	11/06/20	2045160	
Specific Conductance (E.C.)	SM 2510B	640	umhos/cm	2.0	0.20	11/06/20	11/06/20	2045151	
Fluoride (F)	EPA 300.0	0.46	mg/L	0.10	0.026	11/06/20	11/06/20	2045160	
Hardness, Total (as CaCO3)	Calculated	170	mg/L	6.6		11/12/20	11/12/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		11/13/20	11/13/20	2045151	
Inorganic Nitrogen	Calculated	2.0	mg/L	1.3		11/13/20	11/13/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	2.0	mg/L	0.40	0.12	11/06/20	11/06/20	2045160	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/06/20	11/06/20	2045160	
pH (Lab)	SM 4500HB	8.1	pH Units			11/06/20	11/06/20	2045151	
Sulfate (SO4)	EPA 300.0	33	mg/L	0.50	0.14	11/06/20	11/06/20	2045160	
Total Filterable Residue/TDS	SM 2540C	360	mg/L	5.0	3.1	11/09/20	11/11/20	2046002	

Metals

Calcium (Ca)	EPA 200.7	46	mg/L	1.0	0.080	11/12/20	11/12/20	2046120	
Magnesium (Mg)	EPA 200.7	13	mg/L	1.0	0.51	11/12/20	11/12/20	2046120	
Potassium (K)	EPA 200.7	9.4	mg/L	1.0	0.18	11/12/20	11/12/20	2046120	
Sodium (Na)	EPA 200.7	83	mg/L	1.0	0.21	11/12/20	11/12/20	2046120	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

WO 2DKD620

Clinical Lab of San Bernardino, Inc. Chain of Custody
 21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client		Destination Laboratory		Analysis Requested		Turn Around Time (TAT)									
Yucaipa Valley Water District 880 W. County Line Road Yucaipa, CA 92399 Client Contact: Ashley Gibson Phone No.: 909-560-1370 FAX No.: 909-795-0402 System No.: Project: Max Benefits - San Timoteo CMZ Sampled By: <u>Madeleine BWR</u> Comments: Email results to: Lina Robert (lrobert@yywd.dst.ca.us) and Steven Stuart (sstuart@dudek.com)		<input checked="" type="checkbox"/> Clinical Grand Terrace / ELAP 1088 <input type="checkbox"/> Clinical Lompoc / ELAP 1678 <input type="checkbox"/> Other:		Fluoride (EPA 300.0) Chloride (EPA 300.0) pH (SM 4500H+B) Specific Conductance (SM 2510B) Sulfate (EPA 300.0) Ca, Mg, K, Na (EPA 200.7) Alkalinity (inc. HCO ₃ , CO ₃ , and OH) Ammonia-N (EPA 350.1) Nitrite-N (EPA 300.0) Nitrate-N (EPA 300.0) Total Dissolved Solids (SM 2540C)											
Container ID		No. of Preserved Cont.		Received By (Sign)		Print Name / Company									
Date	Time	Sample Identification	Matrix	Sample Type	Unpreserved		Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnCl2	ChlorAC
11/5/10	1445	YYWD-A 3EA53	SW	X											
11/5/10	1414	YYWD-B 3EA54	SW	X											
		YYWD-Z 3EA56	SW	X											
Relinquished By (Sign)		Print Name / Company		Date / Time		Received By (Sign)		Date / Time		Print Name / Company		TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush			
<u>[Signature]</u>		Madeleine BWR (YWD)		11/5 15:25		<u>[Signature]</u>		11-6-20 10:00		Mrs. Martinez					
<u>[Signature]</u>		Mrs. Martinez		11-6-20 12:20		<u>[Signature]</u>				JA CUSB					

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C
 Shipped Via: Fed Ex Golden State Overnight UPS OnTrac USPS Other
 Condition: On Wet Ice On Blu Ice Intact Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____
 Receipt Comments: _____ Clinical Lab Receipt Temp.: 3 °C

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface

Sub Project: Max Benefits - San Timoteo GMZ

Project Manager: Ashley Gibson

Work Order: 20K0852

Received: 11/10/20 11:30

Reported: 11/20/20

YVWD-Z **20K0852-01 (Water)** **Sample Date:** 11/09/20 15:40 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	220	mg/L	5.0		11/17/20	11/17/20	2046037	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/14/20	11/14/20	2046154	
Bicarbonate (HCO3)	SM 2320 B	260	mg/L	5.0		11/17/20	11/17/20	2046037	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		11/17/20	11/17/20	2046037	
Chloride (Cl)	EPA 300.0	67	mg/L	1.0	0.075	11/10/20	11/10/20	2046038	
Specific Conductance (E.C.)	SM 2510B	670	umhos/cm	2.0	0.20	11/10/20	11/10/20	2046037	
Fluoride (F)	EPA 300.0	0.52	mg/L	0.10	0.026	11/10/20	11/10/20	2046038	
Hardness, Total (as CaCO3)	Calculated	310	mg/L	33		11/18/20	11/18/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		11/17/20	11/17/20	2046037	
Inorganic Nitrogen	Calculated	2.0	mg/L	1.3		11/14/20	11/14/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	2.0	mg/L	0.40	0.12	11/10/20	11/10/20	2046038	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/10/20	11/10/20	2046038	
pH (Lab)	SM 4500HB	8.2	pH Units			11/10/20	11/10/20	2046037	
Sulfate (SO4)	EPA 300.0	33	mg/L	0.50	0.14	11/10/20	11/10/20	2046038	
Total Filterable Residue/TDS	SM 2540C	380	mg/L	5.0	3.1	11/12/20	11/13/20	2046113	

Metals

Calcium (Ca)	EPA 200.7	74	mg/L	5.0	0.40	11/18/20	11/18/20	2047063	
Magnesium (Mg)	EPA 200.7	32	mg/L	5.0	2.6	11/18/20	11/18/20	2047063	
Potassium (K)	EPA 200.7	15	mg/L	5.0	0.90	11/18/20	11/18/20	2047063	
Sodium (Na)	EPA 200.7	91	mg/L	5.0	1.1	11/18/20	11/18/20	2047063	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface
Sub Project: Max Benefits - San Timoteo GMZ
Project Manager: Ashley Gibson

Work Order: 20K0852
Received: 11/10/20 11:30
Reported: 11/20/20

YVWD-E **20K0852-02 (Water)** **Sample Date:** 11/09/20 16:15 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	200	mg/L	5.0		11/17/20	11/17/20	2046037	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/14/20	11/14/20	2046154	
Bicarbonate (HCO3)	SM 2320 B	250	mg/L	5.0		11/17/20	11/17/20	2046037	
Carbonate (CO3)	SM 2320B	0.96	mg/L	5.0		11/17/20	11/17/20	2046037	J
Chloride (Cl)	EPA 300.0	64	mg/L	1.0	0.075	11/10/20	11/10/20	2046038	
Specific Conductance (E.C.)	SM 2510B	660	umhos/cm	2.0	0.20	11/10/20	11/10/20	2046037	
Fluoride (F)	EPA 300.0	0.55	mg/L	0.10	0.026	11/10/20	11/10/20	2046038	
Hardness, Total (as CaCO3)	Calculated	200	mg/L	33		11/18/20	11/18/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		11/17/20	11/17/20	2046037	
Inorganic Nitrogen	Calculated	2.2	mg/L	1.3		11/14/20	11/14/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	2.2	mg/L	0.40	0.12	11/10/20	11/10/20	2046038	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/10/20	11/10/20	2046038	
pH (Lab)	SM 4500HB	8.3	pH Units			11/10/20	11/10/20	2046037	
Sulfate (SO4)	EPA 300.0	35	mg/L	0.50	0.14	11/10/20	11/10/20	2046038	
Total Filterable Residue/TDS	SM 2540C	370	mg/L	5.0	3.1	11/12/20	11/13/20	2046113	

Metals

Calcium (Ca)	EPA 200.7	51	mg/L	5.0	0.40	11/18/20	11/18/20	2047063	
Magnesium (Mg)	EPA 200.7	17	mg/L	5.0	2.6	11/18/20	11/18/20	2047063	
Potassium (K)	EPA 200.7	9.0	mg/L	5.0	0.90	11/18/20	11/18/20	2047063	
Sodium (Na)	EPA 200.7	84	mg/L	5.0	1.1	11/18/20	11/18/20	2047063	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

0/6/6

WO 20K0852

Clinical Lab of San Bernardino, Inc. Chain of Custody
 21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client		Destination Laboratory										Analysis Requested										Turn Around Time (TAT)
Yucaipa Valley Water District		[X] Clinical Grand Terrace / ELAP 1088 [] Clinical Lompoc / ELAP 1678 [] Other:										Fluoride (EPA 300.0) Chloride (EPA 300.0) pH (SM 4500H+B) Specific Conductance (SM 2510B) Sulfate (EPA 300.0) Ca, Mg, K, Na (EPA 200.7) Alkalinity (inc. HCO3, CO3, and OH) Ammonia-N (EPA 350.1) Nitrite-N (EPA 300.0) Nitrate-N (EPA 300.0) Total Dissolved Solids (SM 2540C)										
Address:		No. of Preserved Cont.		Sample Type		Matrix		Container ID		Date / Time		Relinquished By (Sign)		Print Name / Company		Received By (Sign)		Print Name / Company				
880 W. County Line Road		ChlorAC		SW		SW		SW		11/9/20 1647		Mena YVW		Mena YVW		Mena YVW		Mena YVW				
Yucaipa, CA 92399		ZnC4H6O4		SW		SW		SW		11/10/2020/1025		Mena YVW		Mena YVW		Mena YVW		Mena YVW				
Client Contact: Ashley Gibson		Na2SO3		SW		SW		SW		11/10/2020/1130		Mena YVW		Mena YVW		Mena YVW		Mena YVW				
Phone No.: 909-560-1370 FAX No.: 909-795-0402		NaOH																				
System No.:		HCl																				
Project: Max Benefits - San Timoteo GMZ		HNO3																				
Sampled By: <i>Melba</i>		C6H8O6																				
Comments: <i>Melba</i>		NH4Cl																				
Email results to: Lina Robert (lrobert@yywd.dst.ca.us) and Steven Stuart (sstuart@dudek.com)		Na2S2O3																				
Date		Unpreserved																				
Time		Sample Identification																				
		SW		3EA53																		
11/9/20 1540		SW		3EA54																		
11/9/20 1615		SW		3EA56																		
11/10/20																						

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other
 Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign): *Melba* Print Name / Company: Mena YVW Date / Time: 11/9/20 1647
 Relinquished By (Sign): *Melba* Print Name / Company: Mena YVW Date / Time: 11/10/2020/1025
 Relinquished By (Sign): *Melba* Print Name / Company: Mena YVW Date / Time: 11/10/2020/1130

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C
 Shipped Via: [] Fed Ex [] Golden State Overnight [] UPS [] OnTrac [] USPS [] Other
 Condition: [X] On Wet Ice [] On Blu Ice [X] Intact [] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____
 Receipt Comments: _____ Clinical Lab Receipt Temp.: 2-8 °C

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface

Sub Project: Max Benefits - San Timoteo GMZ

Project Manager: Ashley Gibson

Work Order: 20K1784

Received: 11/20/20 11:05

Reported: 12/04/20

YVWD-A **20K1784-01 (Water)** **Sample Date:** 11/19/20 14:47 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	240	mg/L	5.0		12/01/20	12/01/20	2047125	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/23/20	11/24/20	2048022	
Bicarbonate (HCO3)	SM 2320 B	290	mg/L	5.0		12/01/20	12/01/20	2047125	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		12/01/20	12/01/20	2047125	
Chloride (Cl)	EPA 300.0	72	mg/L	1.0	0.075	11/20/20	11/20/20	2047131	
Specific Conductance (E.C.)	SM 2510B	700	umhos/cm	2.0	0.20	11/20/20	11/20/20	2047125	
Fluoride (F)	EPA 300.0	0.47	mg/L	0.10	0.026	11/20/20	11/20/20	2047131	
Hardness, Total (as CaCO3)	Calculated	210	mg/L	6.6		11/25/20	11/25/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		12/01/20	12/01/20	2047125	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		11/23/20	11/24/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	0.54	mg/L	0.40	0.12	11/20/20	11/20/20	2047131	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/20/20	11/20/20	2047131	
pH (Lab)	SM 4500HB	8.2	pH Units			11/20/20	11/20/20	2047125	
Sulfate (SO4)	EPA 300.0	28	mg/L	0.50	0.14	11/20/20	11/20/20	2047131	
Total Filterable Residue/TDS	SM 2540C	470	mg/L	5.0	3.1	11/23/20	11/24/20	2048003	

Metals

Calcium (Ca)	EPA 200.7	55	mg/L	1.0	0.080	11/25/20	11/25/20	2048067	
Magnesium (Mg)	EPA 200.7	17	mg/L	1.0	0.51	11/25/20	11/25/20	2048067	
Potassium (K)	EPA 200.7	8.6	mg/L	1.0	0.18	11/25/20	11/25/20	2048067	
Sodium (Na)	EPA 200.7	82	mg/L	1.0	0.21	11/25/20	11/25/20	2048067	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface

Sub Project: Max Benefits - San Timoteo GMZ

Project Manager: Ashley Gibson

Work Order: 20K1784

Received: 11/20/20 11:05

Reported: 12/04/20

YVWD-B **20K1784-02 (Water)** **Sample Date:** 11/19/20 14:23 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	210	mg/L	5.0		12/01/20	12/01/20	2047125	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/23/20	11/24/20	2048022	
Bicarbonate (HCO3)	SM 2320 B	250	mg/L	5.0		12/01/20	12/01/20	2047125	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		12/01/20	12/01/20	2047125	
Chloride (Cl)	EPA 300.0	67	mg/L	1.0	0.075	11/20/20	11/20/20	2047131	
Specific Conductance (E.C.)	SM 2510B	650	umhos/cm	2.0	0.20	11/20/20	11/20/20	2047125	
Fluoride (F)	EPA 300.0	0.44	mg/L	0.10	0.026	11/20/20	11/20/20	2047131	
Hardness, Total (as CaCO3)	Calculated	180	mg/L	6.6		11/25/20	11/25/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		12/01/20	12/01/20	2047125	
Inorganic Nitrogen	Calculated	1.3	mg/L	1.3		11/23/20	11/24/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	1.3	mg/L	0.40	0.12	11/20/20	11/20/20	2047131	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/20/20	11/20/20	2047131	
pH (Lab)	SM 4500HB	8.2	pH Units			11/20/20	11/20/20	2047125	
Sulfate (SO4)	EPA 300.0	31	mg/L	0.50	0.14	11/20/20	11/20/20	2047131	
Total Filterable Residue/TDS	SM 2540C	370	mg/L	5.0	3.1	11/23/20	11/24/20	2048003	

Metals

Calcium (Ca)	EPA 200.7	50	mg/L	1.0	0.080	11/25/20	11/25/20	2048067	
Magnesium (Mg)	EPA 200.7	14	mg/L	1.0	0.51	11/25/20	11/25/20	2048067	
Potassium (K)	EPA 200.7	8.6	mg/L	1.0	0.18	11/25/20	11/25/20	2048067	
Sodium (Na)	EPA 200.7	82	mg/L	1.0	0.21	11/25/20	11/25/20	2048067	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface
Sub Project: Max Benefits - San Timoteo GMZ
Project Manager: Ashley Gibson

Work Order: 20K1784
Received: 11/20/20 11:05
Reported: 12/04/20

YVWD-Z **20K1784-03 (Water)** **Sample Date:** 11/19/20 14:04 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	210	mg/L	5.0		12/01/20	12/01/20	2047125	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/23/20	11/24/20	2048022	
Bicarbonate (HCO3)	SM 2320 B	260	mg/L	5.0		12/01/20	12/01/20	2047125	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		12/01/20	12/01/20	2047125	
Chloride (Cl)	EPA 300.0	68	mg/L	1.0	0.075	11/20/20	11/20/20	2047131	
Specific Conductance (E.C.)	SM 2510B	640	umhos/cm	2.0	0.20	11/20/20	11/20/20	2047125	
Fluoride (F)	EPA 300.0	0.48	mg/L	0.10	0.026	11/20/20	11/20/20	2047131	
Hardness, Total (as CaCO3)	Calculated	200	mg/L	6.6		11/25/20	11/25/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		12/01/20	12/01/20	2047125	
Inorganic Nitrogen	Calculated	1.4	mg/L	1.3		11/23/20	11/24/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	1.4	mg/L	0.40	0.12	11/20/20	11/20/20	2047131	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/20/20	11/20/20	2047131	
pH (Lab)	SM 4500HB	8.3	pH Units			11/20/20	11/20/20	2047125	
Sulfate (SO4)	EPA 300.0	31	mg/L	0.50	0.14	11/20/20	11/20/20	2047131	
Total Filterable Residue/TDS	SM 2540C	360	mg/L	5.0	3.1	11/23/20	11/24/20	2048003	

Metals

Calcium (Ca)	EPA 200.7	52	mg/L	1.0	0.080	11/25/20	11/25/20	2048067	
Magnesium (Mg)	EPA 200.7	17	mg/L	1.0	0.51	11/25/20	11/25/20	2048067	
Potassium (K)	EPA 200.7	9.1	mg/L	1.0	0.18	11/25/20	11/25/20	2048067	
Sodium (Na)	EPA 200.7	76	mg/L	1.0	0.21	11/25/20	11/25/20	2048067	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

0/0/6 WO 20K 1784

Clinical Lab of San Bernardino, Inc.
 21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Chain of Custody

Client		Destination Laboratory		Analysis Requested												Turn Around Time (TAT)																																																																																																																																																												
Yucaipa Valley Water District 880 W. County Line Road Yucaipa, CA 92399		[X] Clinical Grand Terrace / ELAP 1088 [] Clinical Lompoc / ELAP 1678 [] Other:		<table border="1"> <tr><th colspan="12">No. of Preserved Cont.</th></tr> <tr><td>ChlorAC</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>ZnC4H6O4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Na2SO3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>NaOH</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>HCl</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>HNO3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>C6H8O6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>NH4Cl</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Na2S2O3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Unpreserved</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><th colspan="12">Sample Type</th></tr> <tr><td>Matrix</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>												No. of Preserved Cont.												ChlorAC												ZnC4H6O4												Na2SO3												NaOH												HCl												HNO3												C6H8O6												NH4Cl												Na2S2O3												Unpreserved												Sample Type												Matrix												10
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System No.: 909-560-1370 FAX No.: 909-795-0402		Project: Max Benefits - San Timoteo GMZ		<table border="1"> <tr><th colspan="12">Sample Identification</th></tr> <tr><td>Date</td><td>Time</td><td>Sample ID</td><td>Matrix</td><td>Sample Type</td><td>Unpreserved</td><td>Na2S2O3</td><td>NH4Cl</td><td>C6H8O6</td><td>HNO3</td><td>HCl</td><td>NaOH</td><td>Na2SO3</td><td>ZnC4H6O4</td><td>ChlorAC</td><td>Total Containers</td></tr> <tr><td>11/19/20</td><td>1404</td><td>YVWD-Z 3EA56</td><td>SW</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>												Sample Identification												Date	Time	Sample ID	Matrix	Sample Type	Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC	Total Containers	11/19/20	1404	YVWD-Z 3EA56	SW	X												10																																																																																																																
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Sampled By: <i>Madeleine Pata</i>		Comments: Email results to: Lina Robert (lrobert@yvwd.dst.ca.us) and Steven Stuart (sstuart@dndek.com)		<table border="1"> <tr><th colspan="12">Sample Identification</th></tr> <tr><td>Date</td><td>Time</td><td>Sample ID</td><td>Matrix</td><td>Sample Type</td><td>Unpreserved</td><td>Na2S2O3</td><td>NH4Cl</td><td>C6H8O6</td><td>HNO3</td><td>HCl</td><td>NaOH</td><td>Na2SO3</td><td>ZnC4H6O4</td><td>ChlorAC</td><td>Total Containers</td></tr> <tr><td>11/19/20</td><td>1404</td><td>YVWD-Z 3EA56</td><td>SW</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>												Sample Identification												Date	Time	Sample ID	Matrix	Sample Type	Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC	Total Containers	11/19/20	1404	YVWD-Z 3EA56	SW	X												10																																																																																																																
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Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other
 Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
<i>Chris Martinez</i>	Chris Martinez	11/19/20 15:52	<i>Chris Martinez</i>	Chris Martinez
<i>Chris Martinez</i>	Chris Martinez	11/20/20 11:05	<i>Alycia P. CLSB</i>	Alycia P. CLSB

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C
 Shipped Via: [] Fed Ex [] Golden State Overnight [] UPS [] OnTrac [] USPS [] Other
 Condition: [] On Wet Ice [] On Blu Ice [] Intact [] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____
 Receipt Comments: _____ Clinical Lab Receipt Temp.: 41 °C

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface

Sub Project: Max Benefits - San Timoteo GMZ

Project Manager: Ashley Gibson

Work Order: 20L0504

Received: 12/04/20 09:20

Reported: 12/16/20

YVWD-B **20L0504-02 (Water)** **Sample Date:** 12/03/20 14:49 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	200	mg/L	5.0		12/16/20	12/16/20	2049126	
Ammonia as N (NH3-N)	EPA 350.1	0.88	mg/L	0.50	0.15	12/10/20	12/10/20	2050104	
Bicarbonate (HCO3)	SM 2320 B	240	mg/L	5.0		12/16/20	12/16/20	2049126	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		12/16/20	12/16/20	2049126	
Chloride (Cl)	EPA 300.0	63	mg/L	1.0	0.075	12/04/20	12/04/20	2049174	
Specific Conductance (E.C.)	SM 2510B	630	umhos/cm	2.0	0.20	12/04/20	12/16/20	2049126	
Fluoride (F)	EPA 300.0	0.45	mg/L	0.10	0.026	12/04/20	12/04/20	2049174	
Hardness, Total (as CaCO3)	Calculated	150	mg/L	6.6		12/08/20	12/08/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		12/16/20	12/16/20	2049126	
Inorganic Nitrogen	Calculated	2.6	mg/L	0.80		12/04/20	12/04/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	1.7	mg/L	0.40	0.12	12/04/20	12/04/20	2049174	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	12/04/20	12/04/20	2049174	
pH (Lab)	SM 4500HB	8.1	pH Units			12/04/20	12/16/20	2049126	
Sulfate (SO4)	EPA 300.0	29	mg/L	0.50	0.14	12/04/20	12/04/20	2049174	
Total Filterable Residue/TDS	SM 2540C	360	mg/L	5.0	3.1	12/07/20	12/08/20	2050014	

Metals

Calcium (Ca)	EPA 200.7	41	mg/L	1.0	0.080	12/08/20	12/08/20	2050042	
Magnesium (Mg)	EPA 200.7	12	mg/L	1.0	0.51	12/08/20	12/08/20	2050042	
Potassium (K)	EPA 200.7	7.8	mg/L	1.0	0.18	12/08/20	12/08/20	2050042	
Sodium (Na)	EPA 200.7	70	mg/L	1.0	0.21	12/08/20	12/08/20	2050042	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface

Sub Project: Max Benefits - San Timoteo GMZ

Project Manager: Ashley Gibson

Work Order: 20L0504

Received: 12/04/20 09:20

Reported: 12/16/20

YVWD-Z **20L0504-03 (Water)** **Sample Date:** 12/03/20 14:21 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	230	mg/L	5.0		12/16/20	12/16/20	2049126	
Ammonia as N (NH3-N)	EPA 350.1	0.35	mg/L	0.50	0.15	12/07/20	12/08/20	2050024	J
Bicarbonate (HCO3)	SM 2320 B	270	mg/L	5.0		12/16/20	12/16/20	2049126	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		12/16/20	12/16/20	2049126	
Chloride (Cl)	EPA 300.0	68	mg/L	1.0	0.075	12/04/20	12/04/20	2049174	
Specific Conductance (E.C.)	SM 2510B	660	umhos/cm	2.0	0.20	12/04/20	12/16/20	2049126	
Fluoride (F)	EPA 300.0	0.38	mg/L	0.10	0.026	12/04/20	12/04/20	2049174	
Hardness, Total (as CaCO3)	Calculated	280	mg/L	6.6		12/08/20	12/08/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		12/16/20	12/16/20	2049126	
Inorganic Nitrogen	Calculated	1.8	mg/L	1.3		12/07/20	12/08/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	1.5	mg/L	0.40	0.12	12/04/20	12/04/20	2049174	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	12/04/20	12/04/20	2049174	
pH (Lab)	SM 4500HB	8.2	pH Units			12/04/20	12/16/20	2049126	
Sulfate (SO4)	EPA 300.0	32	mg/L	0.50	0.14	12/04/20	12/04/20	2049174	
Total Filterable Residue/TDS	SM 2540C	380	mg/L	5.0	3.1	12/07/20	12/08/20	2050014	

Metals

Calcium (Ca)	EPA 200.7	81	mg/L	1.0	0.080	12/08/20	12/08/20	2050042	
Magnesium (Mg)	EPA 200.7	20	mg/L	1.0	0.51	12/08/20	12/08/20	2050042	
Potassium (K)	EPA 200.7	7.7	mg/L	1.0	0.18	12/08/20	12/08/20	2050042	
Sodium (Na)	EPA 200.7	77	mg/L	1.0	0.21	12/08/20	12/08/20	2050042	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

0/0/6

WO 20LO504

Clinical Lab of San Bernardino, Inc. Chain of Custody
 21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client		Destination Laboratory		Analysis Requested												Turn Around Time (TAT)																																																																																																																																																																																						
Yucaipa Valley Water District 880 W. County Line Road Yucaipa, CA 92399		[X] Clinical Grand Terrace / ELAP 1088 [] Clinical Lompoc / ELAP 1678 [] Other:		<table border="1"> <tr><th colspan="12">Total Containers</th></tr> <tr><td>ChlorAC</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>ZnC4H6O4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Na2SO3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>NaOH</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>HCl</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>HNO3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>C6H8O6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>NH4Cl</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Na2S2O3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Unpreserved</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><th colspan="12">Sample Type</th></tr> <tr><td>Matrix</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Container ID</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><th colspan="2">Date</th><th colspan="2">Time</th><th colspan="10">Sample Identification</th></tr> </table>												Total Containers												ChlorAC												ZnC4H6O4												Na2SO3												NaOH												HCl												HNO3												C6H8O6												NH4Cl												Na2S2O3												Unpreserved												Sample Type												Matrix												Container ID												Date		Time		Sample Identification										10
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Specific Conductance (SM 2510B)															X																																																																																																																																																																																							
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Ca, Mg, K, Na (EPA 200.7)															X																																																																																																																																																																																							
Alkalinity (inc. HCO3, CO3, and OH)															X																																																																																																																																																																																							
Ammonia-N (EPA 350.1)															X																																																																																																																																																																																							
Nitrite-N (EPA 300.0)															X																																																																																																																																																																																							
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Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other	
Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well	
Relinquished By (Sign)	Print Name / Company
<i>[Signature]</i>	Michelle Blue Kneel
	12/3/20/535
	12/4/20/838
	12/4/20/920
	SK Shuler/CUSA
	SK Shuler/CUSA

Received By (Sign)		Print Name / Company	
<i>[Signature]</i>		SK Shuler/CUSA	
Date / Time		Print Name / Company	
12/3/20/535		SK Shuler/CUSA	
12/4/20/838		SK Shuler/CUSA	
12/4/20/920		SK Shuler/CUSA	

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C
 Shipped Via: [] Fed Ex [] Golden State Overnight [] UPS [] OnTrac [] USPS [] Other
 Condition: On Wet Ice [] On Blu Ice Antact [] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____
 Receipt Comments: _____ Clinical Lab Receipt Temp.: 0.4 °C

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface

Sub Project: Max Benefits - San Timoteo GMZ

Project Manager: Ashley Gibson

Work Order: 20L1708

Received: 12/18/20 11:45

Reported: 12/30/20

YVWD-A **20L1708-01 (Water)** **Sample Date:** 12/17/20 15:35 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	250	mg/L	5.0		12/22/20	12/22/20	2051149	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	12/22/20	12/23/20	2052048	
Bicarbonate (HCO3)	SM 2320 B	300	mg/L	5.0		12/22/20	12/22/20	2051149	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		12/22/20	12/22/20	2051149	
Chloride (Cl)	EPA 300.0	71	mg/L	1.0	0.075	12/18/20	12/18/20	2051130	
Specific Conductance (E.C.)	SM 2510B	690	umhos/cm	2.0	0.20	12/18/20	12/22/20	2051149	
Fluoride (F)	EPA 300.0	0.48	mg/L	0.10	0.026	12/18/20	12/18/20	2051130	
Hardness, Total (as CaCO3)	Calculated	200	mg/L	6.6		12/28/20	12/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		12/22/20	12/22/20	2051149	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		12/22/20	12/23/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	0.48	mg/L	0.40	0.12	12/18/20	12/18/20	2051130	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	12/18/20	12/18/20	2051130	
pH (Lab)	SM 4500HB	8.2	pH Units			12/18/20	12/22/20	2051149	
Sulfate (SO4)	EPA 300.0	28	mg/L	0.50	0.14	12/18/20	12/18/20	2051130	
Total Filterable Residue/TDS	SM 2540C	390	mg/L	5.0	3.1	12/22/20	12/28/20	2052027	

Metals

Calcium (Ca)	EPA 200.7	52	mg/L	1.0	0.080	12/28/20	12/28/20	2053029	
Magnesium (Mg)	EPA 200.7	16	mg/L	1.0	0.51	12/28/20	12/28/20	2053029	
Potassium (K)	EPA 200.7	8.1	mg/L	1.0	0.18	12/28/20	12/28/20	2053029	
Sodium (Na)	EPA 200.7	79	mg/L	1.0	0.21	12/28/20	12/28/20	2053029	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface

Sub Project: Max Benefits - San Timoteo GMZ

Project Manager: Ashley Gibson

Work Order: 20L1708

Received: 12/18/20 11:45

Reported: 12/30/20

YVWD-B **20L1708-02 (Water)** **Sample Date:** 12/17/20 15:12 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	220	mg/L	5.0		12/22/20	12/22/20	2051149	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	12/22/20	12/23/20	2052048	
Bicarbonate (HCO3)	SM 2320 B	270	mg/L	5.0		12/22/20	12/22/20	2051149	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		12/22/20	12/22/20	2051149	
Chloride (Cl)	EPA 300.0	69	mg/L	1.0	0.075	12/18/20	12/18/20	2051130	
Specific Conductance (E.C.)	SM 2510B	670	umhos/cm	2.0	0.20	12/18/20	12/22/20	2051149	
Fluoride (F)	EPA 300.0	0.48	mg/L	0.10	0.026	12/18/20	12/18/20	2051130	
Hardness, Total (as CaCO3)	Calculated	180	mg/L	6.6		12/28/20	12/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		12/22/20	12/22/20	2051149	
Inorganic Nitrogen	Calculated	1.5	mg/L	1.3		12/22/20	12/23/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	1.5	mg/L	0.40	0.12	12/18/20	12/18/20	2051130	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	12/18/20	12/18/20	2051130	
pH (Lab)	SM 4500HB	8.0	pH Units			12/18/20	12/22/20	2051149	
Sulfate (SO4)	EPA 300.0	31	mg/L	0.50	0.14	12/18/20	12/18/20	2051130	
Total Filterable Residue/TDS	SM 2540C	430	mg/L	5.0	3.1	12/22/20	12/28/20	2052027	

Metals

Calcium (Ca)	EPA 200.7	50	mg/L	1.0	0.080	12/28/20	12/28/20	2053029	
Magnesium (Mg)	EPA 200.7	13	mg/L	1.0	0.51	12/28/20	12/28/20	2053029	
Potassium (K)	EPA 200.7	7.2	mg/L	1.0	0.18	12/28/20	12/28/20	2053029	
Sodium (Na)	EPA 200.7	82	mg/L	1.0	0.21	12/28/20	12/28/20	2053029	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface
Sub Project: Max Benefits - San Timoteo GMZ
Project Manager: Ashley Gibson

Work Order: 20L1708
Received: 12/18/20 11:45
Reported: 12/30/20

YVWD-Z **20L1708-03 (Water)** **Sample Date:** 12/17/20 14:38 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	230	mg/L	5.0		12/22/20	12/22/20	2051149	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	12/22/20	12/23/20	2052048	
Bicarbonate (HCO3)	SM 2320 B	280	mg/L	5.0		12/22/20	12/22/20	2051149	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		12/22/20	12/22/20	2051149	
Chloride (Cl)	EPA 300.0	71	mg/L	1.0	0.075	12/18/20	12/18/20	2051130	
Specific Conductance (E.C.)	SM 2510B	670	umhos/cm	2.0	0.20	12/18/20	12/22/20	2051149	
Fluoride (F)	EPA 300.0	0.35	mg/L	0.10	0.026	12/18/20	12/18/20	2051130	
Hardness, Total (as CaCO3)	Calculated	250	mg/L	6.6		12/28/20	12/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		12/22/20	12/22/20	2051149	
Inorganic Nitrogen	Calculated	1.6	mg/L	1.3		12/22/20	12/23/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	1.6	mg/L	0.40	0.12	12/18/20	12/18/20	2051130	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	12/18/20	12/18/20	2051130	
pH (Lab)	SM 4500HB	8.2	pH Units			12/18/20	12/22/20	2051149	
Sulfate (SO4)	EPA 300.0	33	mg/L	0.50	0.14	12/18/20	12/18/20	2051130	
Total Filterable Residue/TDS	SM 2540C	380	mg/L	5.0	3.1	12/22/20	12/28/20	2052027	

Metals

Calcium (Ca)	EPA 200.7	72	mg/L	1.0	0.080	12/28/20	12/28/20	2053029	
Magnesium (Mg)	EPA 200.7	18	mg/L	1.0	0.51	12/28/20	12/28/20	2053029	
Potassium (K)	EPA 200.7	7.8	mg/L	1.0	0.18	12/28/20	12/28/20	2053029	
Sodium (Na)	EPA 200.7	79	mg/L	1.0	0.21	12/28/20	12/28/20	2053029	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

0/6/6
WO 201708

Clinical Lab of San Bernardino, Inc.

Chain of Custody

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client		Destination Laboratory		Analysis Requested		Turn Around Time (TAT)	
Yucaipa Valley Water District 880 W. County Line Road Yucaipa, CA 92399 Client Contact: Ashley Gibson Phone No.: 909-560-1370 FAX No.: 909-795-0402 System No.:		[X] Clinical Grand Terrace / ELAP 1088 [] Clinical Lompoc / ELAP 1678 [] Other:		Fluoride (EPA 300.0) Chloride (EPA 300.0) pH (SM 4500H+B) Specific Conductance (SM 2510B) Sulfate (EPA 300.0) Ca, Mg, K, Na (EPA 200.7) Alkalinity (inc. HCO ₃ , CO ₃ , and OH) Ammonia-N (EPA 350.1) Nitrite-N (EPA 300.0) Nitrate-N (EPA 300.0) Total Dissolved Solids (SM 2540C)			Comments
Date	Time	Sample Identification	Container ID	Matrix	Sample Type	No. of Preserved Cont.	
12/17	1535	YVWD-A 3EA53		SW	Unpreserved		ChlorAC
	1512	YVWD-B 3EA54		SW			ZnC4H6O4
	1438	YVWD-Z 3EA56		SW			Na2SO3
							NaOH
							HCl
							HNO3
							C6H8O6
							NH4Cl
							Na2S2O3
							Unpreserved
							Matrix

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
<i>[Signature]</i>	Harley Glen XUMS	12/17/20 16:24	<i>[Signature]</i>	Chris Martinez 10:00
<i>[Signature]</i>	Chris Martinez	12-18-20 11:45	<i>[Signature]</i>	JTA CUSB

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other
 Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C
 Shipped Via: [] Fed Ex [] Golden State Overnight [] UPS [] OnTrac [] USPS [] Other
 Condition: [] On Wet Ice [] On Blu Ice [] Intact [] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____
 Receipt Comments: _____ Clinical Lab Receipt Temp.: 39 °C

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface

Sub Project: Max Benefits - San Timoteo GMZ

Project Manager: Ashley Gibson

Work Order: 20L2499

Received: 12/30/20 12:45

Reported: 01/12/21

YVWD-A **20L2499-01 (Water)** **Sample Date:** 12/29/20 10:54 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	180	mg/L	5.0		01/05/21	01/05/21	2053076	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	01/04/21	01/05/21	2102024	
Bicarbonate (HCO3)	SM 2320 B	210	mg/L	5.0		01/05/21	01/05/21	2053076	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		01/05/21	01/05/21	2053076	
Chloride (Cl)	EPA 300.0	53	mg/L	1.0	0.075	12/31/20	12/31/20	2053097	
Specific Conductance (E.C.)	SM 2510B	530	umhos/cm	2.0	0.20	12/31/20	12/31/20	2053076	
Fluoride (F)	EPA 300.0	0.52	mg/L	0.10	0.026	12/31/20	12/31/20	2053097	
Hardness, Total (as CaCO3)	Calculated	170	mg/L	6.6		01/06/21	01/06/21	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		01/05/21	01/05/21	2053076	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		01/04/21	01/05/21	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	0.93	mg/L	0.40	0.12	12/31/20	12/31/20	2053097	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	12/31/20	12/31/20	2053097	
pH (Lab)	SM 4500HB	7.8	pH Units			12/31/20	12/31/20	2053076	
Sulfate (SO4)	EPA 300.0	32	mg/L	0.50	0.14	12/31/20	12/31/20	2053097	
Total Filterable Residue/TDS	SM 2540C	310	mg/L	5.0	3.1	12/31/20	01/04/21	2053102	

Metals

Calcium (Ca)	EPA 200.7	46	mg/L	1.0	0.080	01/06/21	01/06/21	2102078	
Magnesium (Mg)	EPA 200.7	14	mg/L	1.0	0.51	01/06/21	01/06/21	2102078	
Potassium (K)	EPA 200.7	7.0	mg/L	1.0	0.18	01/06/21	01/06/21	2102078	
Sodium (Na)	EPA 200.7	64	mg/L	1.0	0.21	01/06/21	01/06/21	2102078	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface

Sub Project: Max Benefits - San Timoteo GMZ

Project Manager: Ashley Gibson

Work Order: 20L2499

Received: 12/30/20 12:45

Reported: 01/12/21

YVWD-B **20L2499-02 (Water)** **Sample Date:** 12/29/20 11:40 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	190	mg/L	5.0		01/05/21	01/05/21	2053076	
Ammonia as N (NH3-N)	EPA 350.1	0.22	mg/L	0.50	0.15	01/04/21	01/05/21	2102024	J
Bicarbonate (HCO3)	SM 2320 B	230	mg/L	5.0		01/05/21	01/05/21	2053076	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		01/05/21	01/05/21	2053076	
Chloride (Cl)	EPA 300.0	58	mg/L	1.0	0.075	12/31/20	12/31/20	2053097	
Specific Conductance (E.C.)	SM 2510B	560	umhos/cm	2.0	0.20	12/31/20	12/31/20	2053076	
Fluoride (F)	EPA 300.0	0.50	mg/L	0.10	0.026	12/31/20	12/31/20	2053097	
Hardness, Total (as CaCO3)	Calculated	170	mg/L	6.6		01/06/21	01/06/21	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		01/05/21	01/05/21	2053076	
Inorganic Nitrogen	Calculated	1.7	mg/L	1.3		01/04/21	01/05/21	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	1.5	mg/L	0.40	0.12	12/31/20	12/31/20	2053097	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	12/31/20	12/31/20	2053097	
pH (Lab)	SM 4500HB	7.8	pH Units			12/31/20	12/31/20	2053076	
Sulfate (SO4)	EPA 300.0	34	mg/L	0.50	0.14	12/31/20	12/31/20	2053097	
Total Filterable Residue/TDS	SM 2540C	340	mg/L	5.0	3.1	12/31/20	01/04/21	2053102	

Metals

Calcium (Ca)	EPA 200.7	45	mg/L	1.0	0.080	01/06/21	01/06/21	2102078	
Magnesium (Mg)	EPA 200.7	13	mg/L	1.0	0.51	01/06/21	01/06/21	2102078	
Potassium (K)	EPA 200.7	8.0	mg/L	1.0	0.18	01/06/21	01/06/21	2102078	
Sodium (Na)	EPA 200.7	68	mg/L	1.0	0.21	01/06/21	01/06/21	2102078	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface
Sub Project: Max Benefits - San Timoteo GMZ
Project Manager: Ashley Gibson

Work Order: 20L2499
Received: 12/30/20 12:45
Reported: 01/12/21

YVWD-Z **20L2499-03 (Water)** **Sample Date:** 12/29/20 12:17 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	280	mg/L	5.0		01/05/21	01/05/21	2053076	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	01/04/21	01/05/21	2102024	
Bicarbonate (HCO3)	SM 2320 B	340	mg/L	5.0		01/05/21	01/05/21	2053076	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		01/05/21	01/05/21	2053076	
Chloride (Cl)	EPA 300.0	58	mg/L	1.0	0.075	12/31/20	12/31/20	2053097	
Specific Conductance (E.C.)	SM 2510B	570	umhos/cm	2.0	0.20	12/31/20	12/31/20	2053076	
Fluoride (F)	EPA 300.0	0.53	mg/L	0.10	0.026	12/31/20	12/31/20	2053097	
Hardness, Total (as CaCO3)	Calculated	270	mg/L	6.6		01/06/21	01/06/21	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		01/05/21	01/05/21	2053076	
Inorganic Nitrogen	Calculated	1.4	mg/L	1.3		01/04/21	01/05/21	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	1.4	mg/L	0.40	0.12	12/31/20	12/31/20	2053097	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	12/31/20	12/31/20	2053097	
pH (Lab)	SM 4500HB	7.7	pH Units			12/31/20	12/31/20	2053076	
Sulfate (SO4)	EPA 300.0	36	mg/L	0.50	0.14	12/31/20	12/31/20	2053097	
Total Filterable Residue/TDS	SM 2540C	340	mg/L	5.0	3.1	01/04/21	01/06/21	2102017	

Metals

Calcium (Ca)	EPA 200.7	67	mg/L	1.0	0.080	01/06/21	01/06/21	2102078	
Magnesium (Mg)	EPA 200.7	25	mg/L	1.0	0.51	01/06/21	01/06/21	2102078	
Potassium (K)	EPA 200.7	11	mg/L	1.0	0.18	01/06/21	01/06/21	2102078	
Sodium (Na)	EPA 200.7	69	mg/L	1.0	0.21	01/06/21	01/06/21	2102078	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

Clinical Lab of San Bernardino, Inc.

Chain of Custody

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client: Yucaipa Valley Water District

Address: 880 W. County Line Road

Yucaipa, CA 92399

Client Contact: Ashley Gibson

Phone No.: 909-560-1370 FAX No.: 909-795-0402

System No.: _____

Project: Max Benefits - San Timoteo GMZ

Sampled By: *Mobley B*

Comments: _____

Email results to: Lina Robert (lrobert@yvwd.dst.ca.us) and Steven Stuart (sstuart@dudek.com)

Date	Time	Sample Identification	Container ID	Matrix	Sample Type	No. of Preserved Cont.	Total Containers
12/29	1054	YVWD-A 3EA53		SW	Unpreserved		
12/29	1140	YVWD-B 3EA54		SW	Unpreserved		
12/29	1217	YVWD-Z 3EA56		SW	Unpreserved		

Analysis Requested	Destination Laboratory							
	No. of Preserved Cont.							
Fluoride (EPA 300.0)								
Chloride (EPA 300.0)								
pH (SM 4500H+B)								
Specific Conductance (SM 2510B)								
Sulfate (EPA 300.0)								
Ca, Mg, K, Na (EPA 200.7)								
Alkalinity (inc. HCO3, CO3, and OH)								
Ammonia-N (EPA 350.1)								
Nitrite-N (EPA 300.0)								
Nitrate-N (EPA 300.0)								
Total Dissolved Solids (SM 2540C)								

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Date / Time	Received By (Sign)	Print Name / Company
<i>[Signature]</i>	12/29 1357	<i>[Signature]</i>	Christina A. Chen
<i>[Signature]</i>	12/30/20 12:45	<i>[Signature]</i>	Aylin P. USB

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C

Shipped Via: [] Fed Ex [] Golden State Overnight [] UPS [] OnTrac [] USPS [] Other

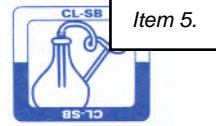
Condition: [] On Wet Ice [] On Blu Ice [] Intact [] Custody Seals Samples / COC Checked By: _____

Receipt Comments: _____ Work Order Logged By: _____ Clinical Lab Receipt Temp.: _____ °C

2/6/6
WO 2012499

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface
Sub Project: Max Benefits - San Timoteo GMZ
Project Manager: Ashley Gibson

Work Order: 20L2584
Received: 12/31/20 10:15
Reported: 01/12/21

YVWD-Z **20L2584-01 (Water)** **Sample Date:** 12/30/20 9:16 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	230	mg/L	5.0		01/05/21	01/05/21	2053076	
Ammonia as N (NH3-N)	EPA 350.1	0.38	mg/L	0.50	0.15	01/04/21	01/05/21	2102024	J
Bicarbonate (HCO3)	SM 2320 B	280	mg/L	5.0		01/05/21	01/05/21	2053076	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		01/05/21	01/05/21	2053076	
Chloride (Cl)	EPA 300.0	65	mg/L	1.0	0.075	12/31/20	12/31/20	2053097	
Specific Conductance (E.C.)	SM 2510B	640	umhos/cm	2.0	0.20	12/31/20	12/31/20	2053076	
Fluoride (F)	EPA 300.0	0.49	mg/L	0.10	0.026	12/31/20	12/31/20	2053097	
Hardness, Total (as CaCO3)	Calculated	370	mg/L	6.6		01/06/21	01/06/21	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		01/05/21	01/05/21	2053076	
Inorganic Nitrogen	Calculated	1.7	mg/L	1.3		01/04/21	01/05/21	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	1.3	mg/L	0.40	0.12	12/31/20	12/31/20	2053097	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	12/31/20	12/31/20	2053097	
pH (Lab)	SM 4500HB	7.9	pH Units			12/31/20	12/31/20	2053076	
Sulfate (SO4)	EPA 300.0	31	mg/L	0.50	0.14	12/31/20	12/31/20	2053097	
Total Filterable Residue/TDS	SM 2540C	360	mg/L	5.0	3.1	01/04/21	01/06/21	2102017	

Metals

Calcium (Ca)	EPA 200.7	85	mg/L	1.0	0.080	01/06/21	01/06/21	2102078	
Magnesium (Mg)	EPA 200.7	38	mg/L	1.0	0.51	01/06/21	01/06/21	2102078	
Potassium (K)	EPA 200.7	15	mg/L	1.0	0.18	01/06/21	01/06/21	2102078	
Sodium (Na)	EPA 200.7	78	mg/L	1.0	0.21	01/06/21	01/06/21	2102078	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Yucaipa Valley Water District - Wastewater

12770 2nd Street
Yucaipa CA, 92399

Project: San Timoteo-Surface
Sub Project: Max Benefits - San Timoteo GMZ
Project Manager: Ashley Gibson

Work Order: 20L2584
Received: 12/31/20 10:15
Reported: 01/12/21

YVWD-E **20L2584-02 (Water)** **Sample Date:** 12/30/20 10:05 **Sampler:** Madeline Blua

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	190	mg/L	5.0		01/05/21	01/05/21	2053076	
Ammonia as N (NH3-N)	EPA 350.1	0.18	mg/L	0.50	0.15	01/04/21	01/05/21	2102024	J
Bicarbonate (HCO3)	SM 2320 B	230	mg/L	5.0		01/05/21	01/05/21	2053076	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		01/05/21	01/05/21	2053076	
Chloride (Cl)	EPA 300.0	59	mg/L	1.0	0.075	12/31/20	12/31/20	2053097	
Specific Conductance (E.C.)	SM 2510B	610	umhos/cm	2.0	0.20	12/31/20	12/31/20	2053076	
Fluoride (F)	EPA 300.0	0.51	mg/L	0.10	0.026	12/31/20	12/31/20	2053097	
Hardness, Total (as CaCO3)	Calculated	200	mg/L	6.6		01/06/21	01/06/21	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		01/05/21	01/05/21	2053076	
Inorganic Nitrogen	Calculated	1.4	mg/L	1.3		01/04/21	01/05/21	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	1.2	mg/L	0.40	0.12	12/31/20	12/31/20	2053097	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	12/31/20	12/31/20	2053097	
pH (Lab)	SM 4500HB	8.0	pH Units			12/31/20	12/31/20	2053076	
Sulfate (SO4)	EPA 300.0	34	mg/L	0.50	0.14	12/31/20	12/31/20	2053097	
Total Filterable Residue/TDS	SM 2540C	350	mg/L	5.0	3.1	01/04/21	01/06/21	2102017	

Metals

Calcium (Ca)	EPA 200.7	53	mg/L	1.0	0.080	01/06/21	01/06/21	2102078	
Magnesium (Mg)	EPA 200.7	16	mg/L	1.0	0.51	01/06/21	01/06/21	2102078	
Potassium (K)	EPA 200.7	7.5	mg/L	1.0	0.18	01/06/21	01/06/21	2102078	
Sodium (Na)	EPA 200.7	68	mg/L	1.0	0.21	01/06/21	01/06/21	2102078	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

APPENDIX F

**Hydrographs of Groundwater Elevations at Wells in the
San Timoteo Groundwater Management Zone**

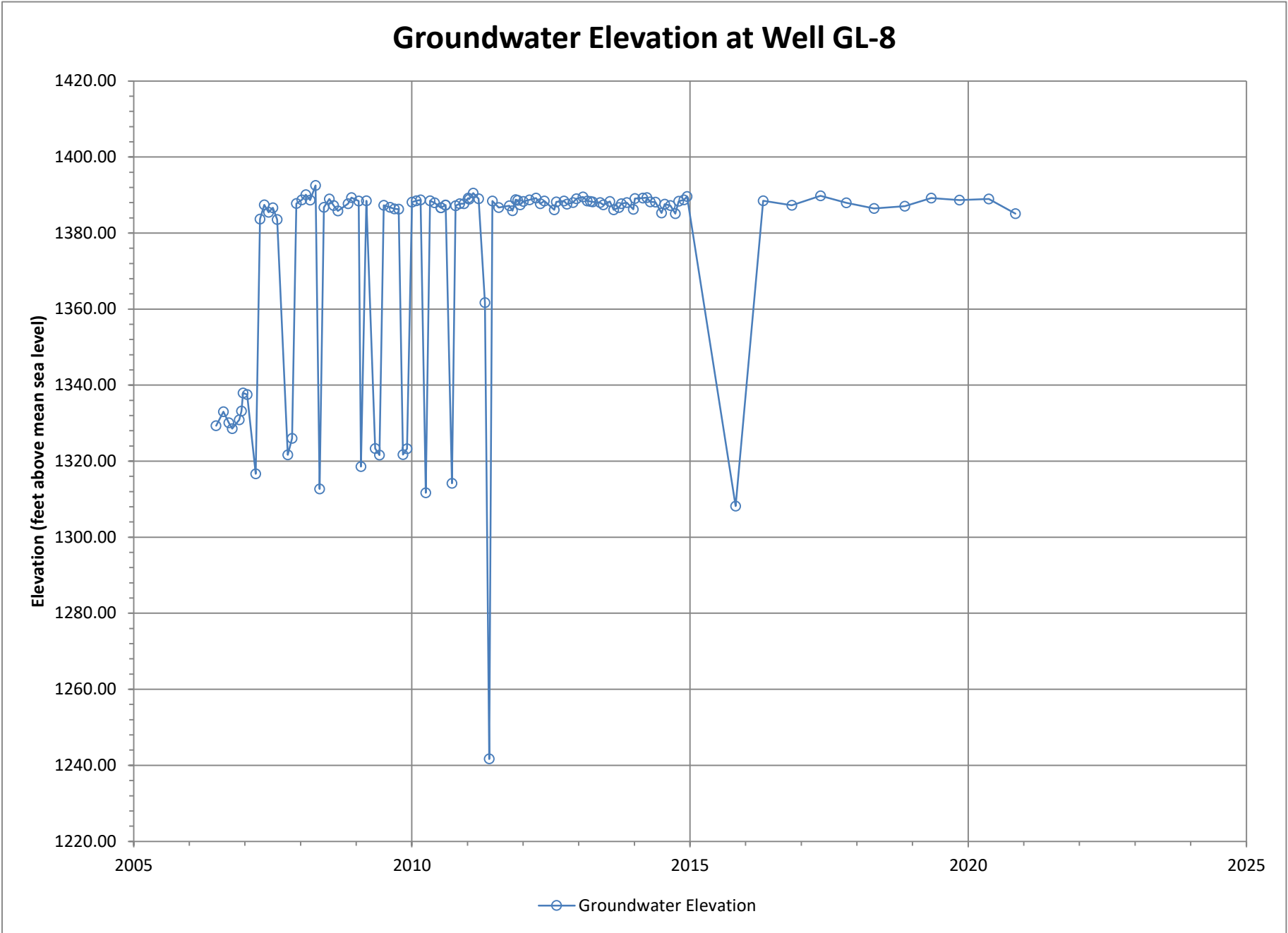
APPENDIX F

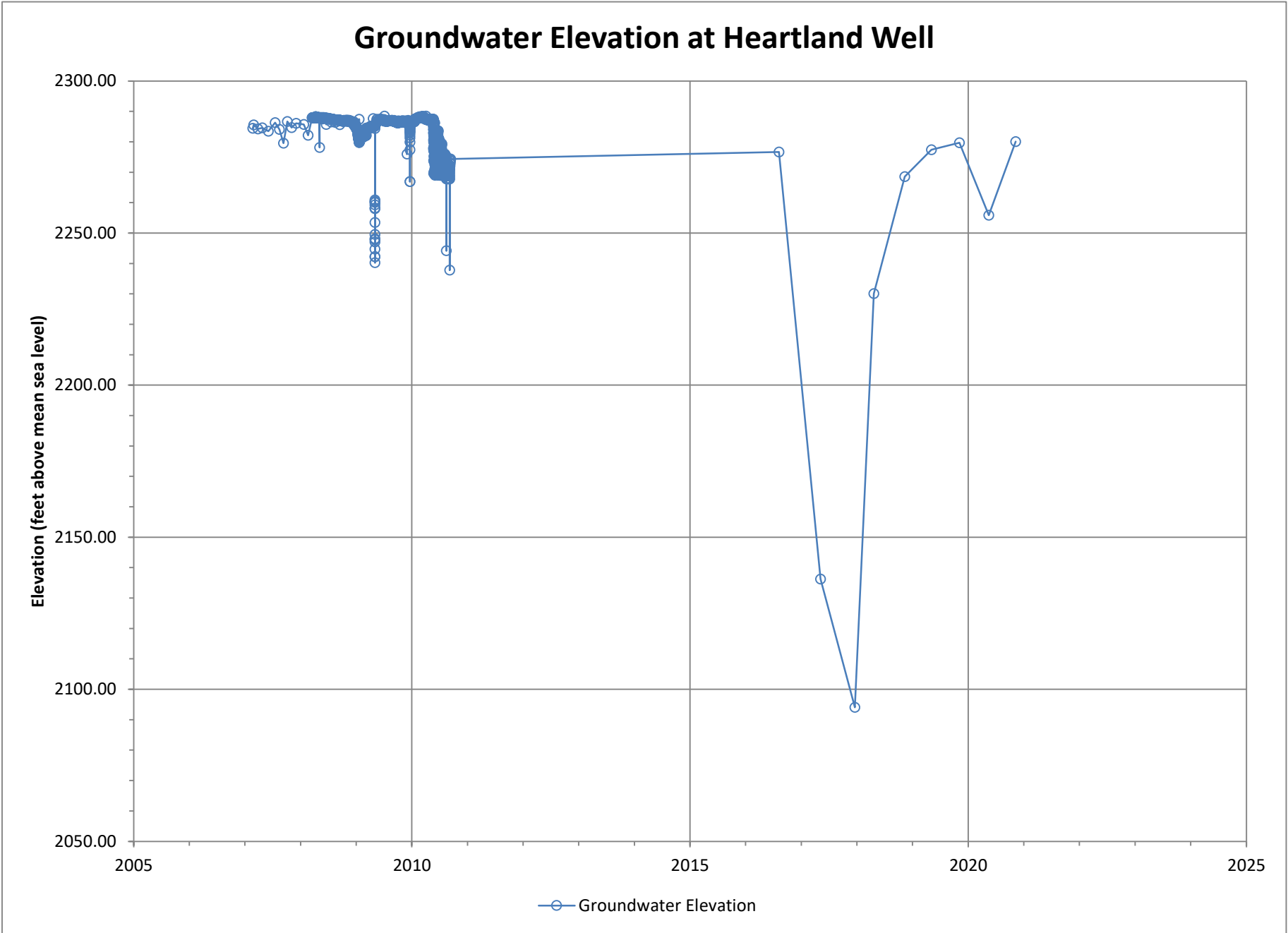
Historical Groundwater Elevations at Wells in the San Timoteo Groundwater Management Zone

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Figure

- F-1 Groundwater Elevation Hydrograph at Well GL-8
- F-2 Groundwater Elevation Hydrograph at Heartland Well
- F-3 Groundwater Elevation Hydrograph at Well ST-02
- F-4 Groundwater Elevation Hydrograph at Well ST-03
- F-5 Groundwater Elevation Hydrograph at Well ST-05C
- F-6 Groundwater Elevation Hydrograph at Well ST-07A
- F-7 Groundwater Elevation Hydrograph at Well ST-08
- F-8 Groundwater Elevation Hydrograph at Well ST-10
- F-9 Groundwater Elevation Hydrograph at Well ST-11
- F-10 Groundwater Elevation Hydrograph at Well ST-12
- F-11 Groundwater Elevation Hydrograph at Well East Valley Golf Club
- F-12 Groundwater Elevation Hydrograph at Well El Casco Lake Ranch One
- F-13 Groundwater Elevation Hydrograph at Well Hildebrand, Chester F.
- F-14 Groundwater Elevation Hydrograph at Well GL-6
- F-15 Groundwater Elevation Hydrograph at Well San Tim Badlands BH-20
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- F-17 Groundwater Elevation Hydrograph at Well San Tim Badlands BH-24
- F-18 Groundwater Elevation Hydrograph at Well Fisherman's Retreat 2
- F-19 Groundwater Elevation Hydrograph at Well #427, Agri-Empire
- F-20 Groundwater Elevation Hydrograph at Well #428, Agri-Empire
- F-21 Groundwater Elevation Hydrograph at Well Schwenckert, Henry and Jewel #1
- F-22 Groundwater Elevation Hydrograph at Well YVWD GMMW-1
- F-23 Groundwater Elevation Hydrograph at Well YVWD GMMW-2
- F-24 Groundwater Elevation Hydrograph at Well YVWD GMMW-3
- F-25 Groundwater Elevation Hydrograph at Well YVWD GMMW-4
- F-26 Groundwater Elevation Hydrograph at Well YVWD GMMW-5A
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- F-30 Groundwater Elevation Hydrograph at Well YVWD OW-2P
- F-31 Groundwater Elevation Hydrograph at Well YVWD OW-3P





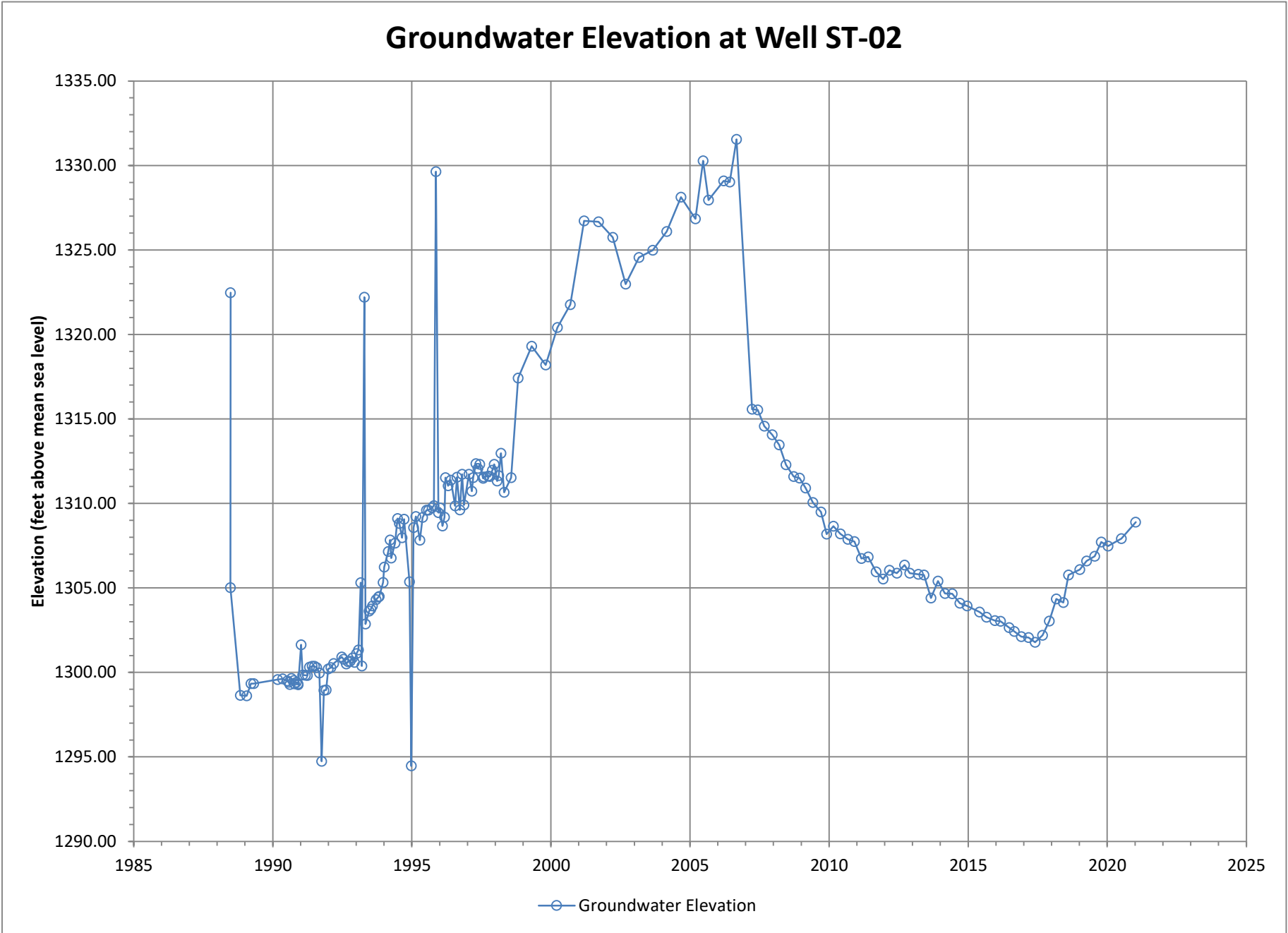
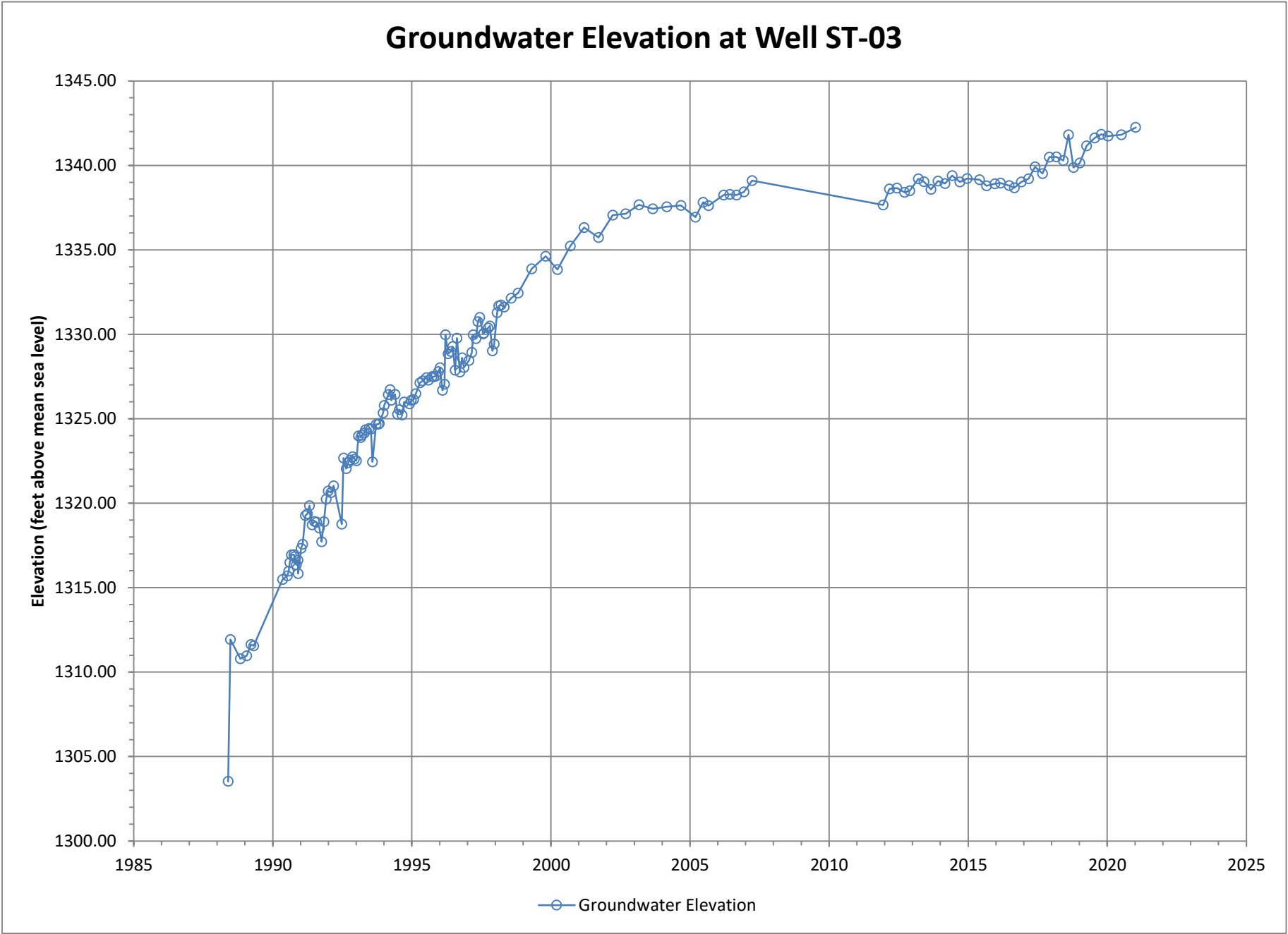
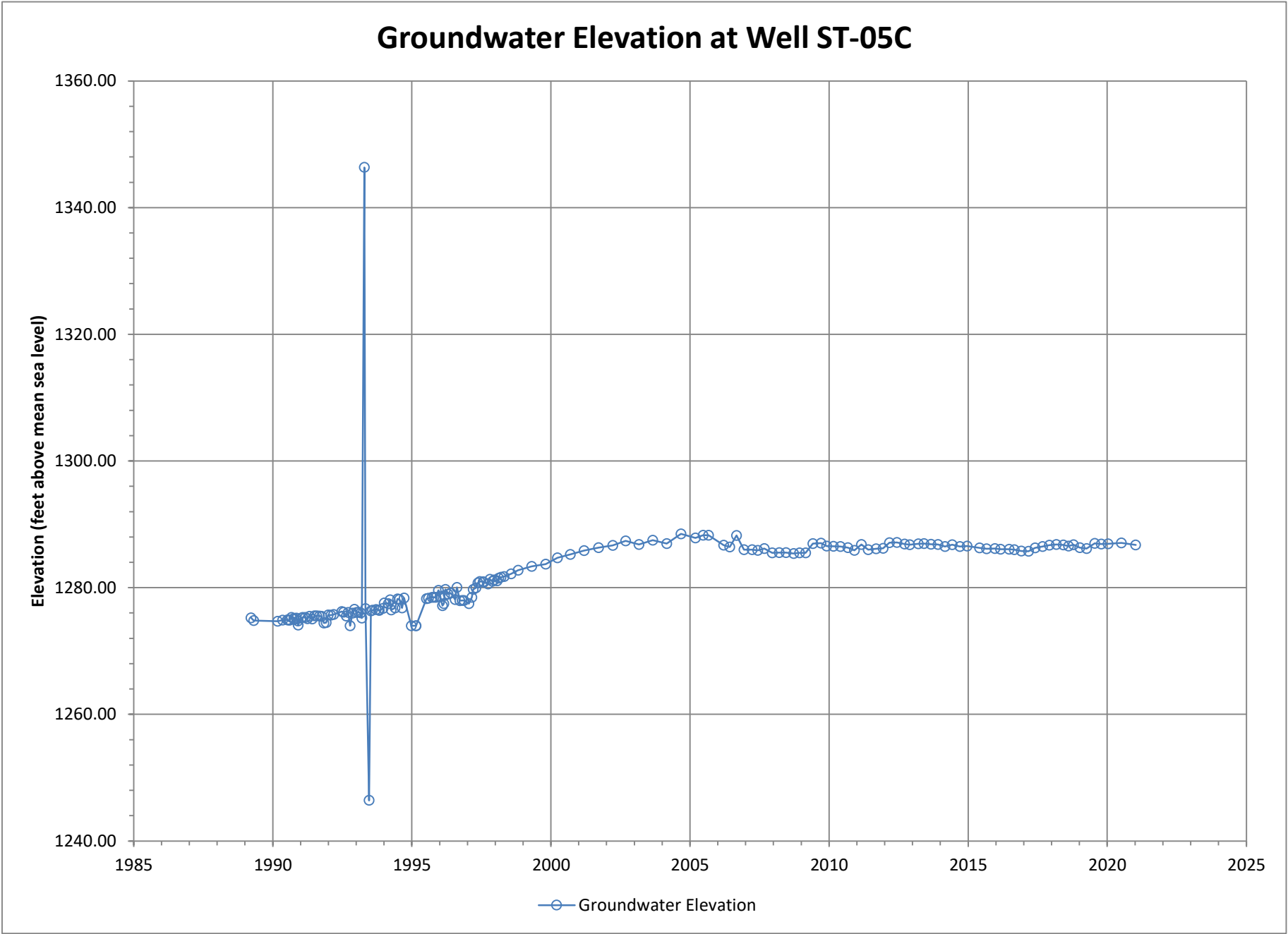
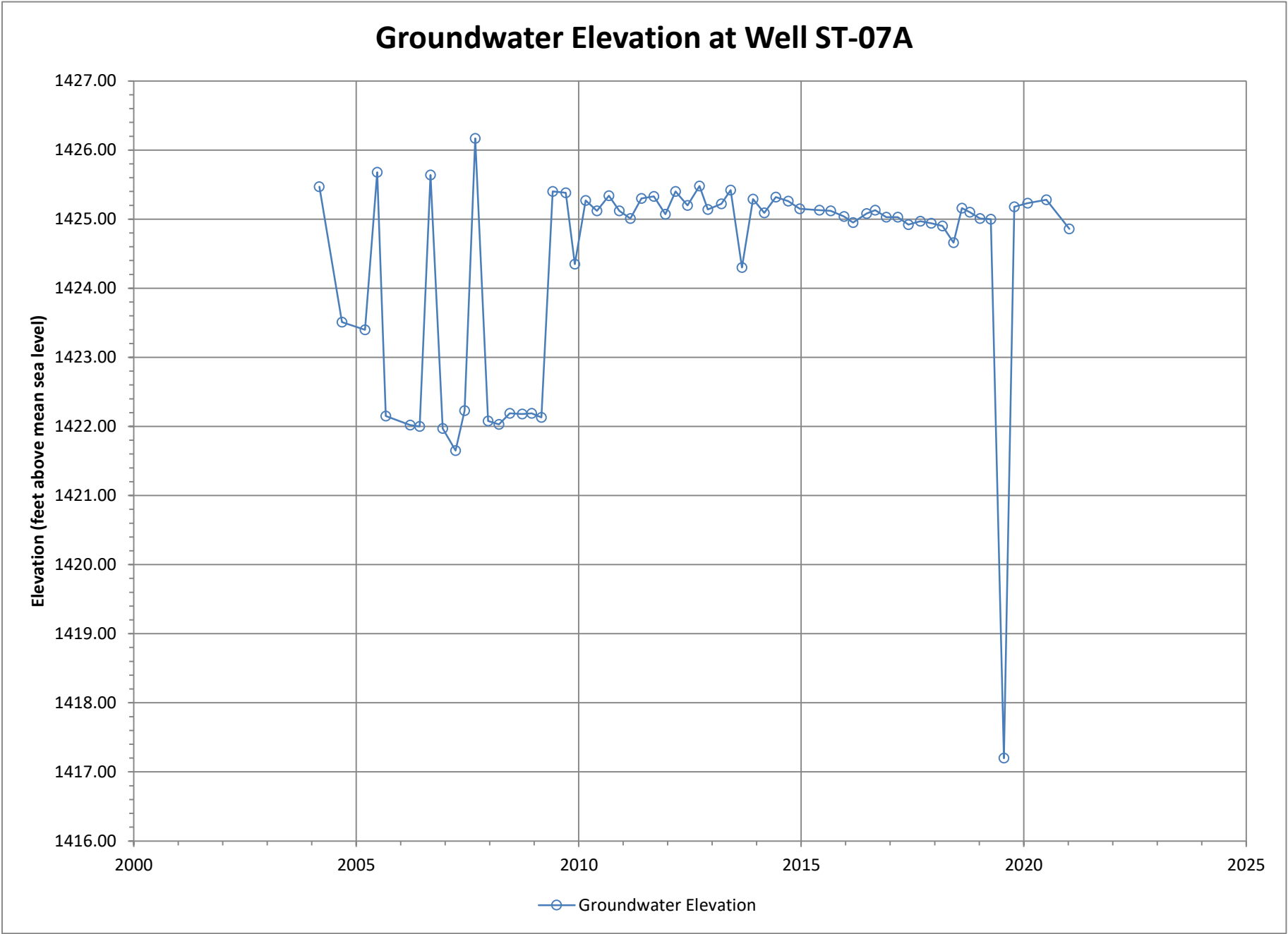
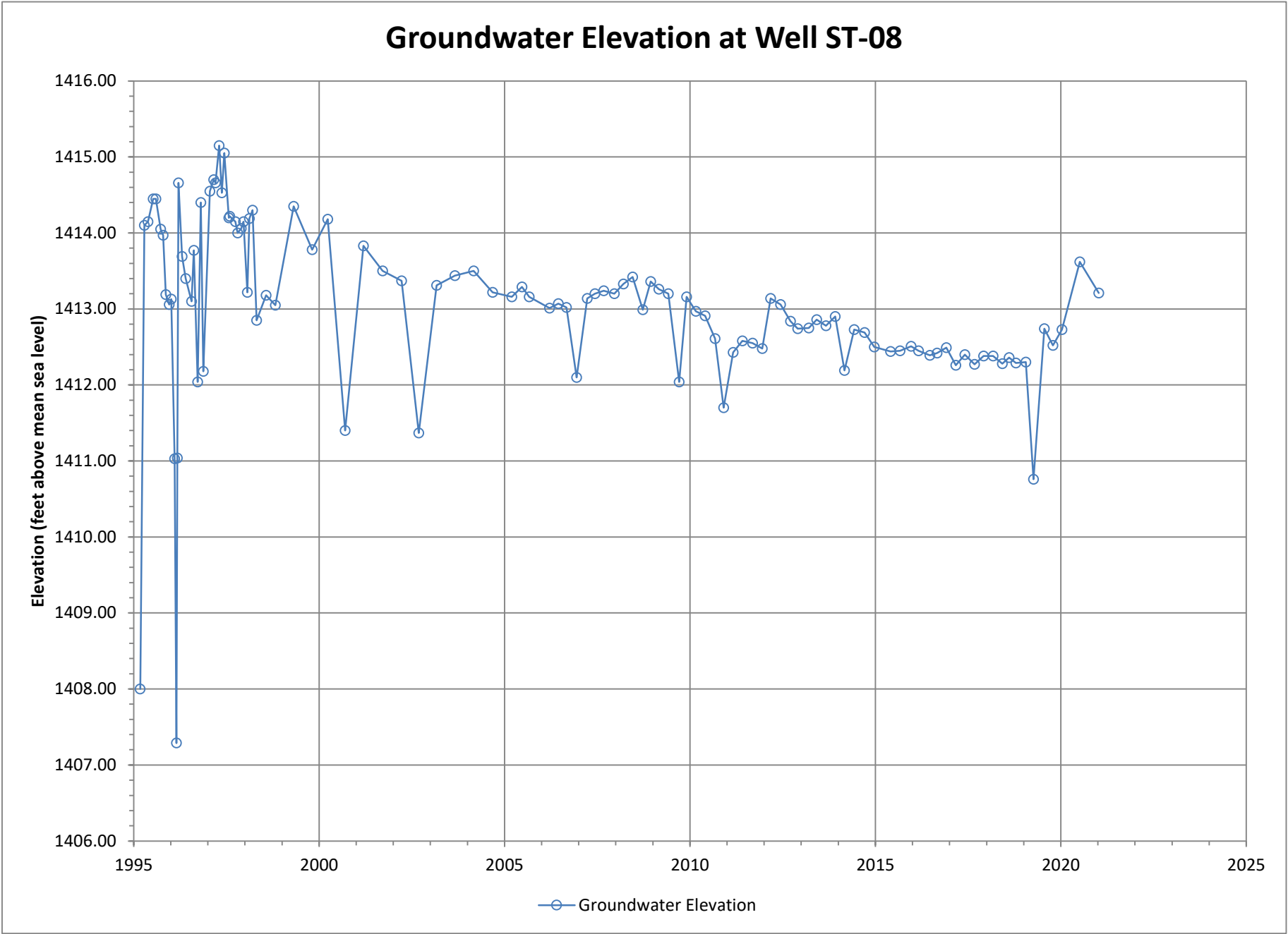


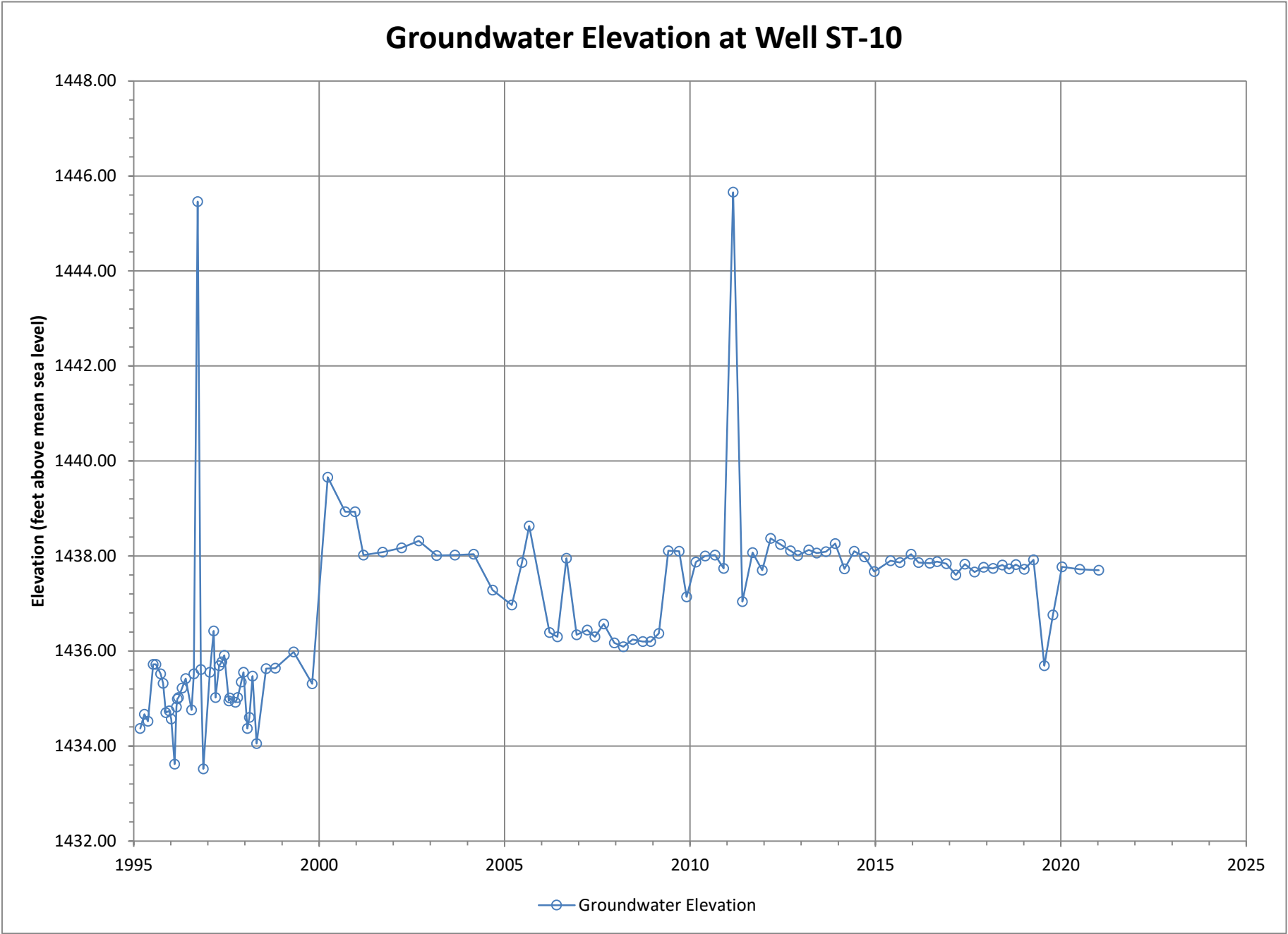
Figure F-3 611

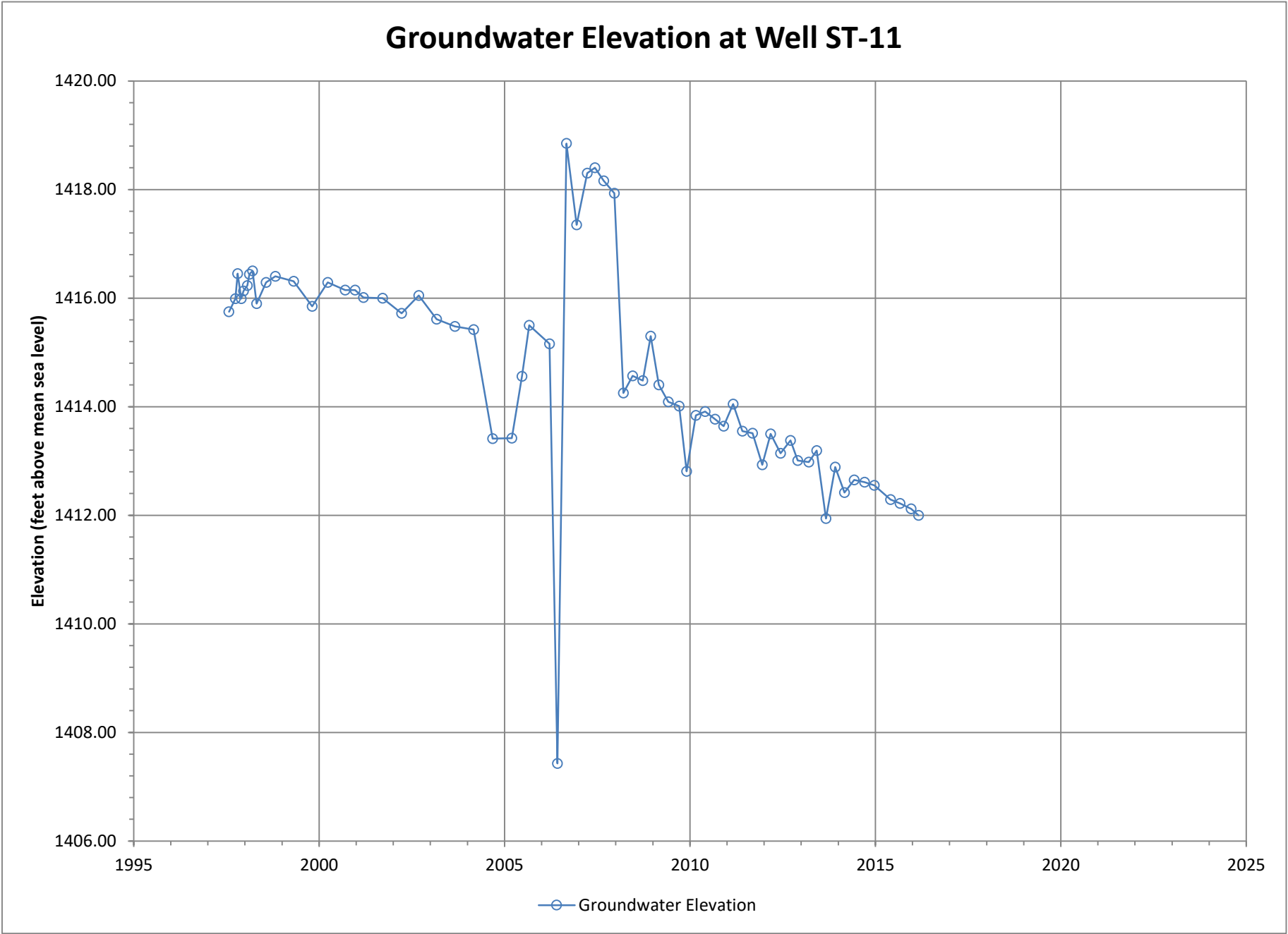


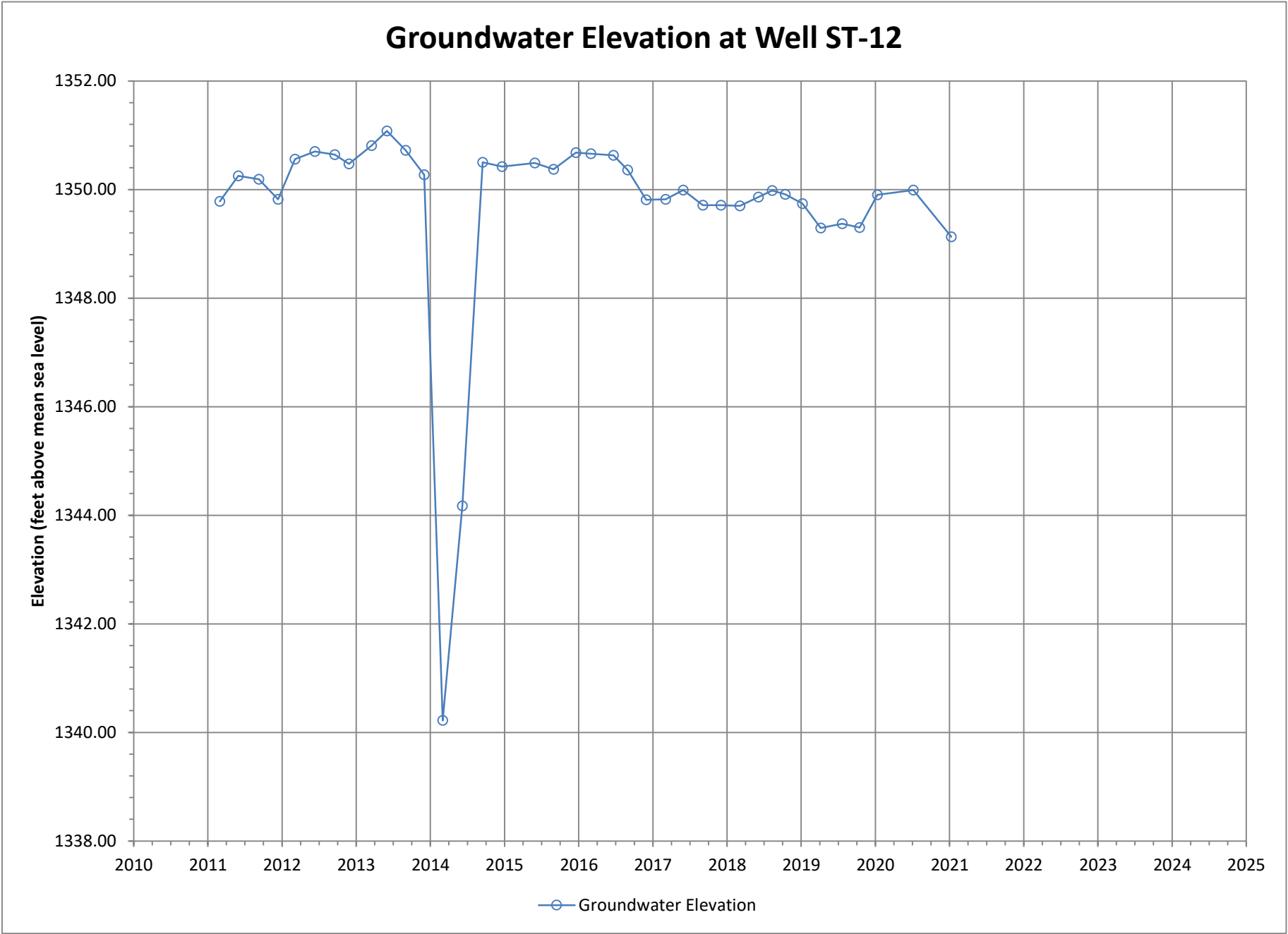


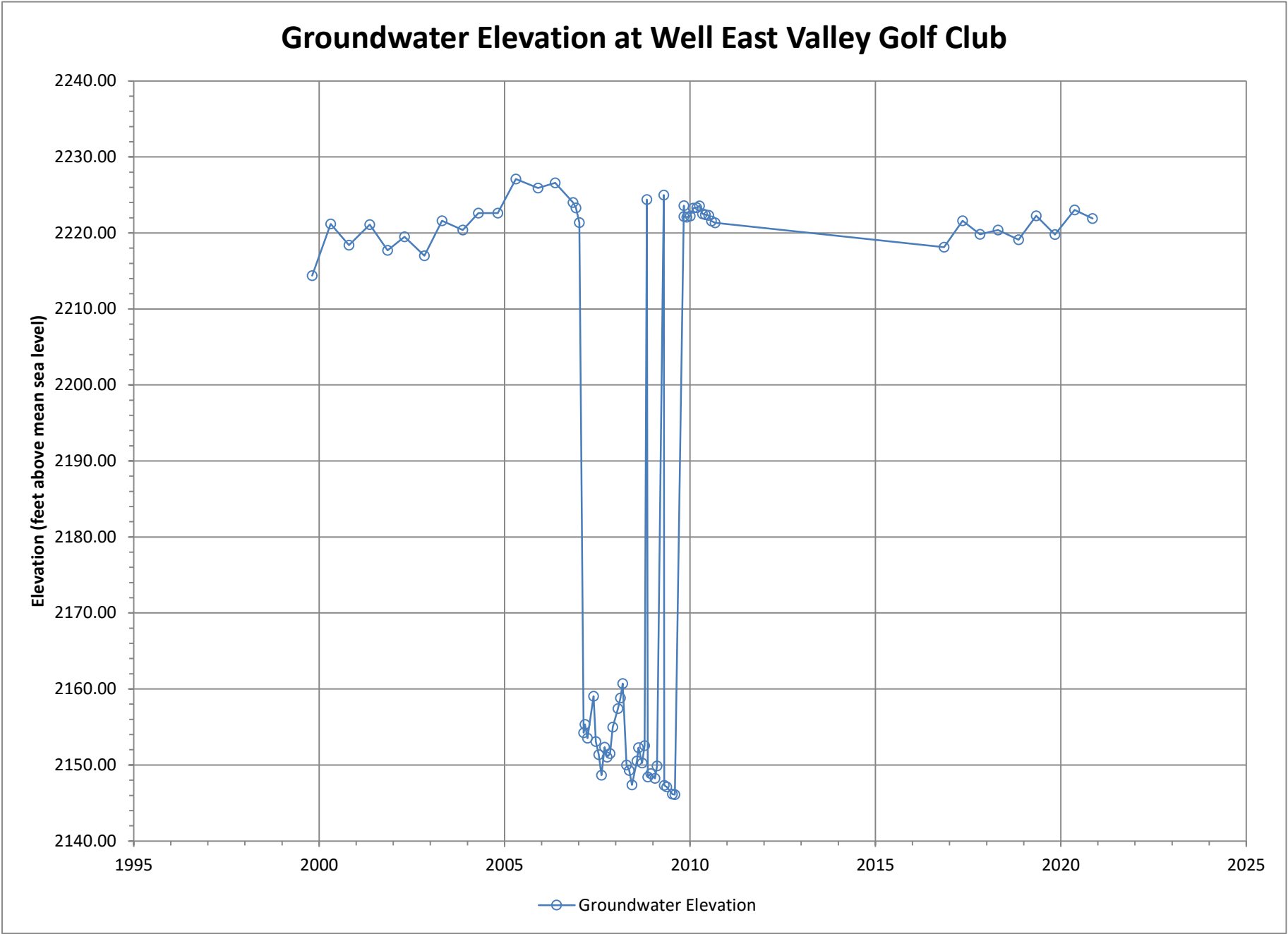




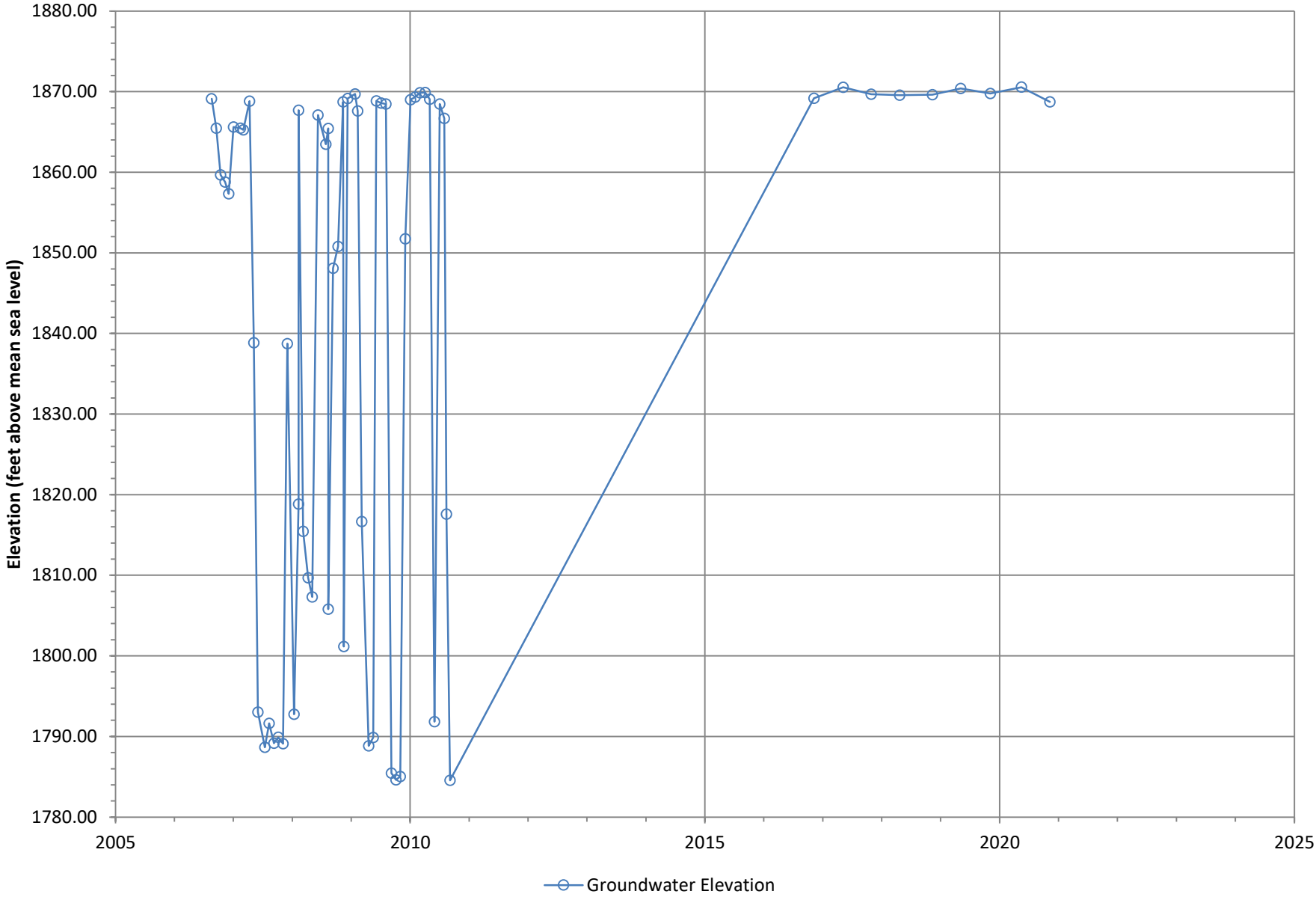


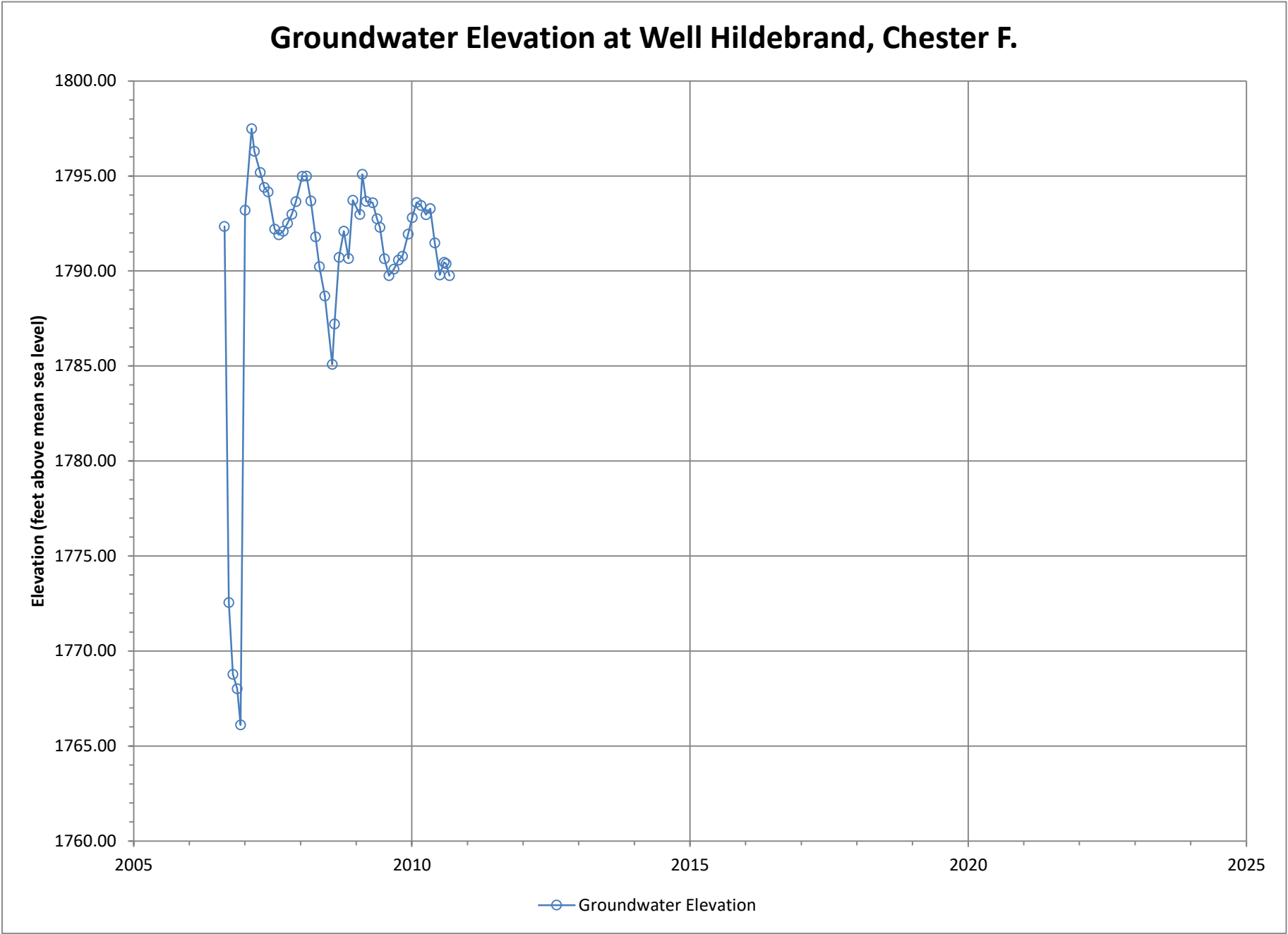


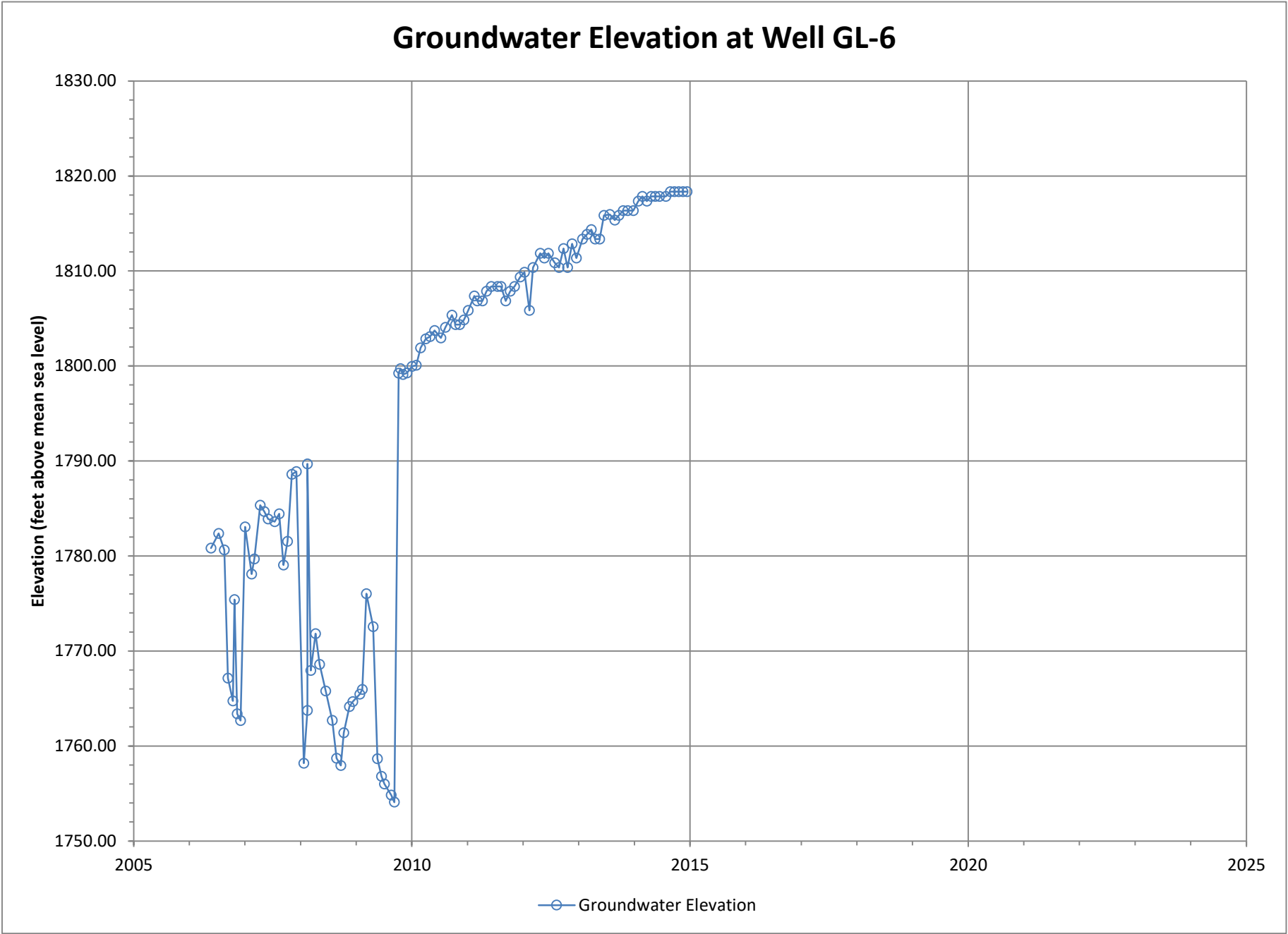




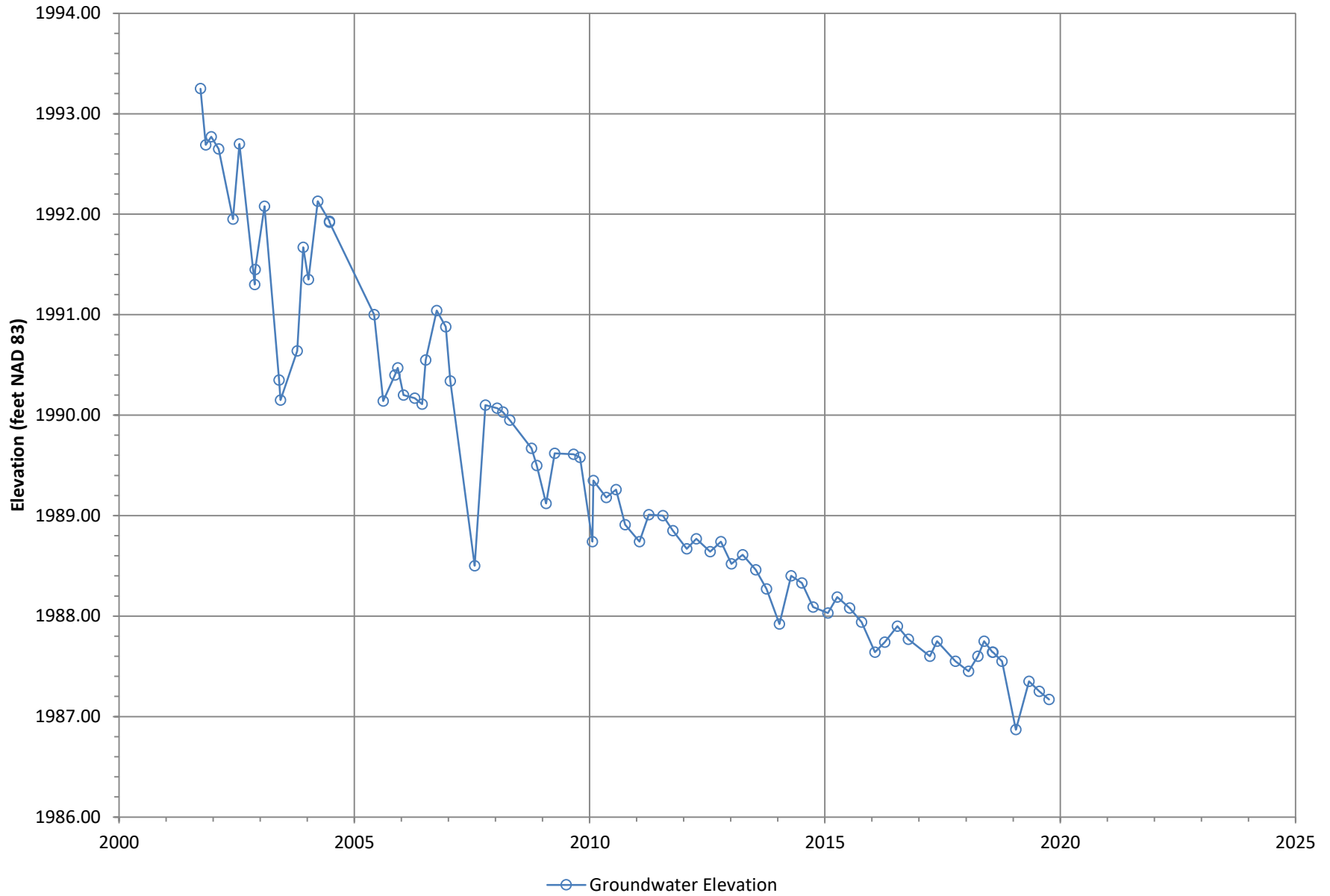
Groundwater Elevation at Well El Casco Lake Ranch One



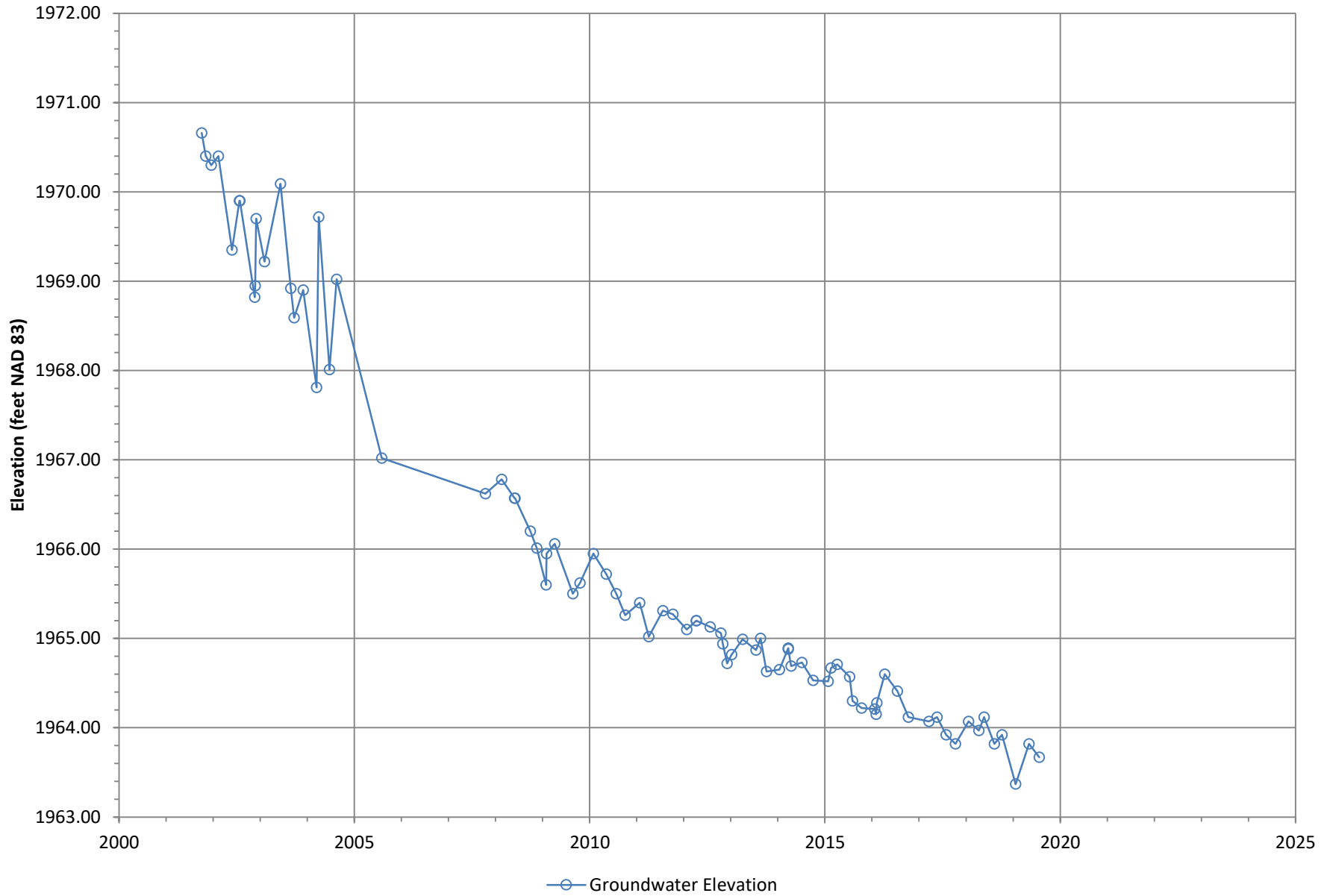




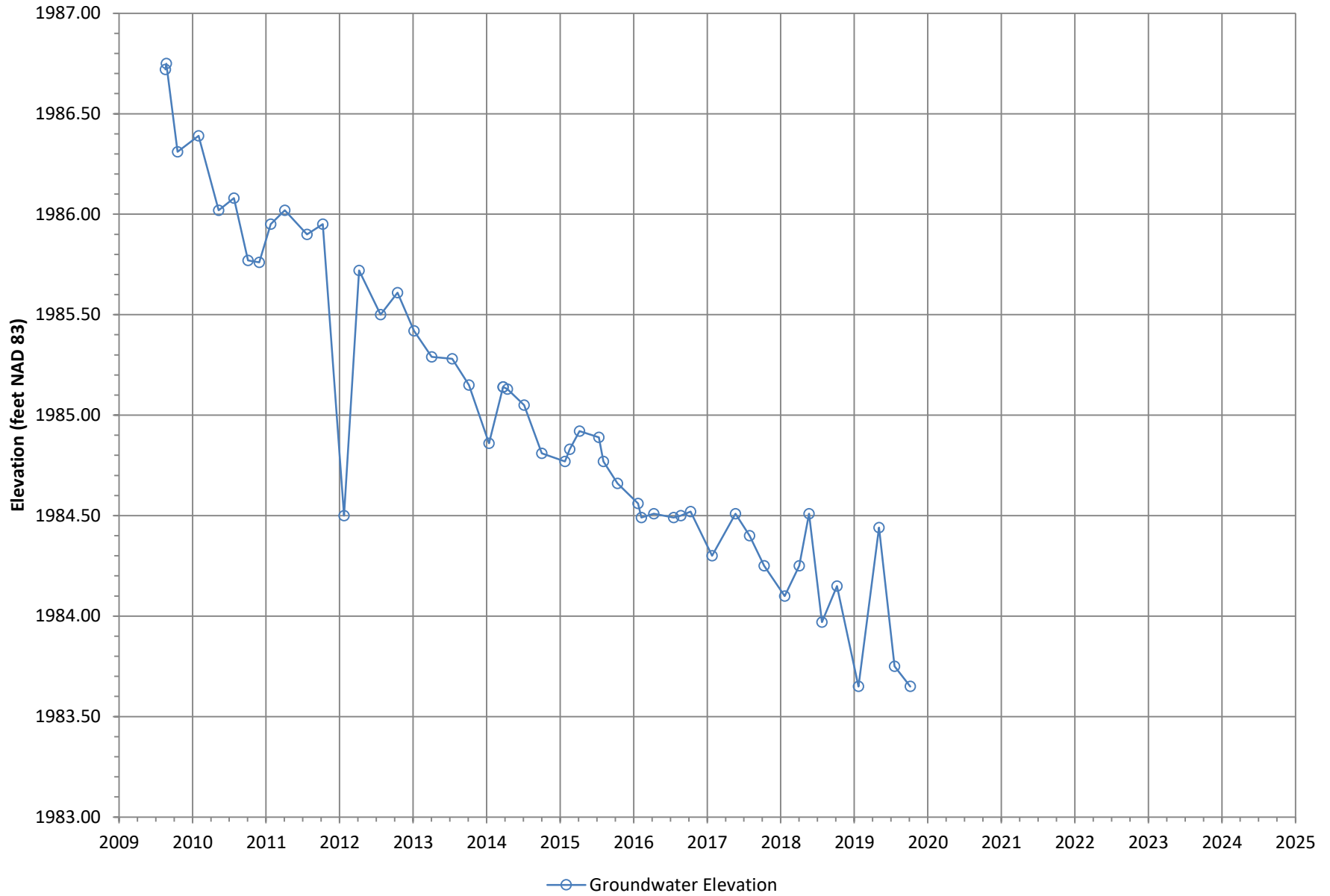
Groundwater Elevation at Well San Tim Badlands BH-20



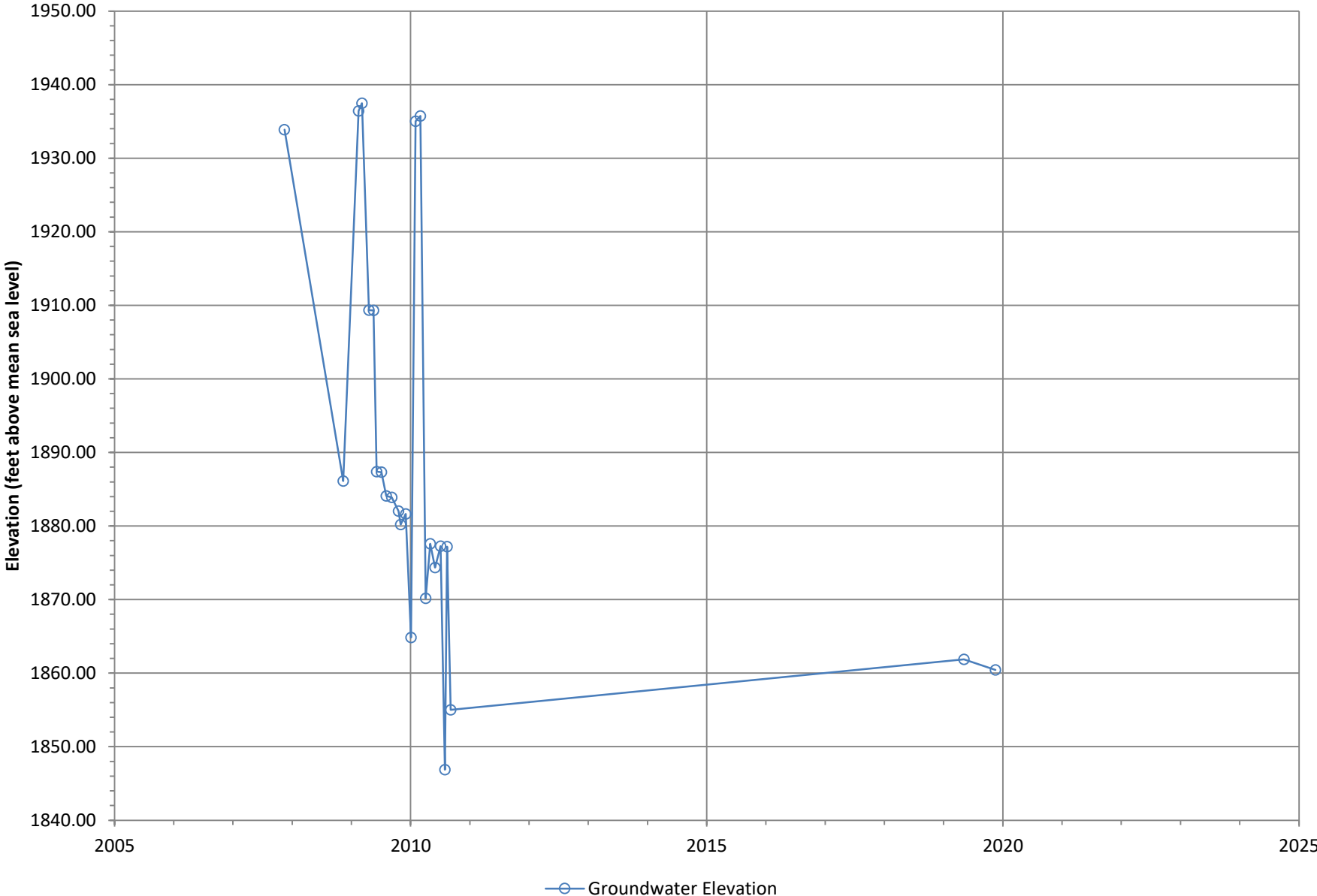
Groundwater Elevation at Well San Tim Badlands BH-21

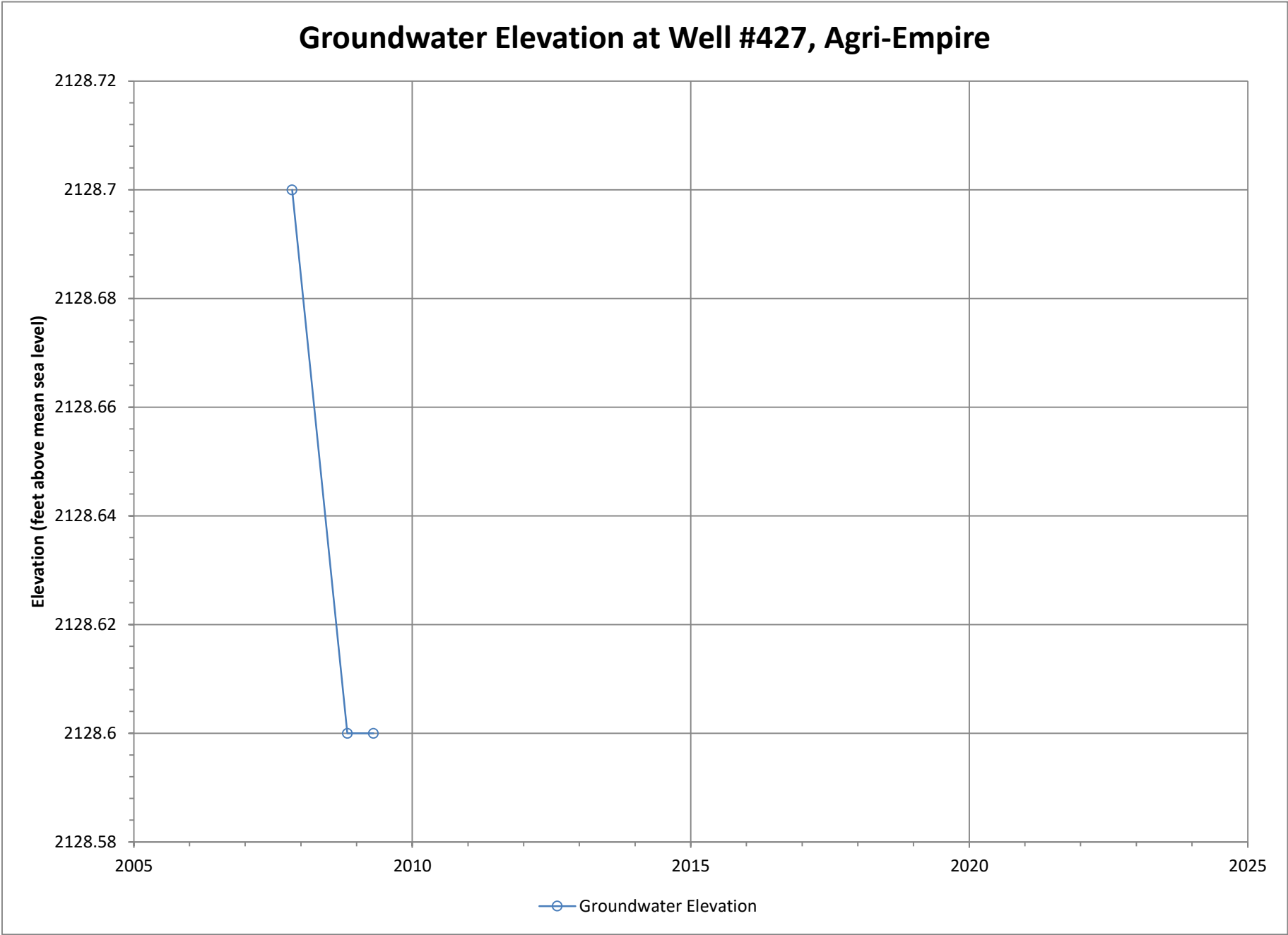


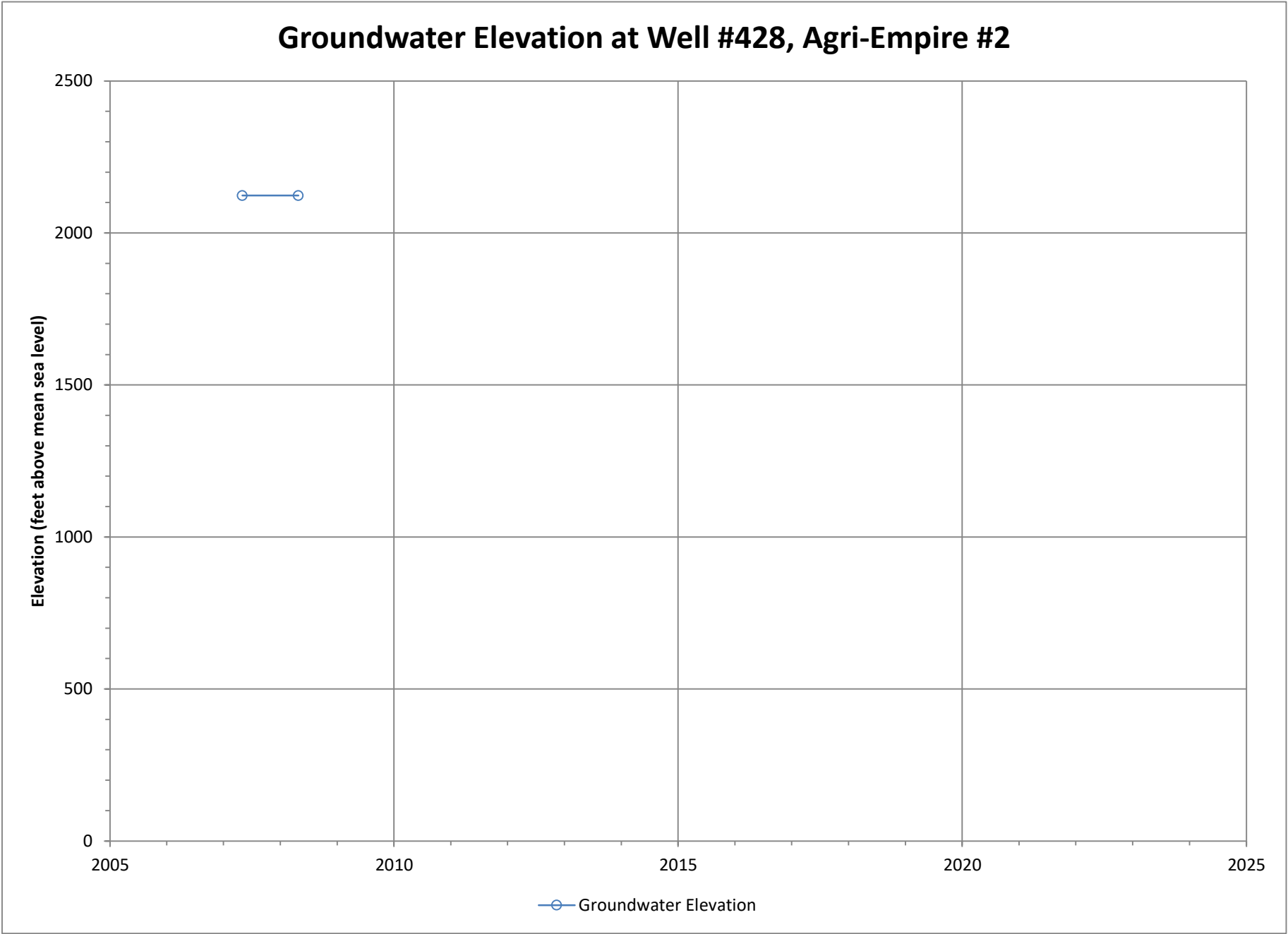
Groundwater Elevation at Well San Tim Badlands BH-24

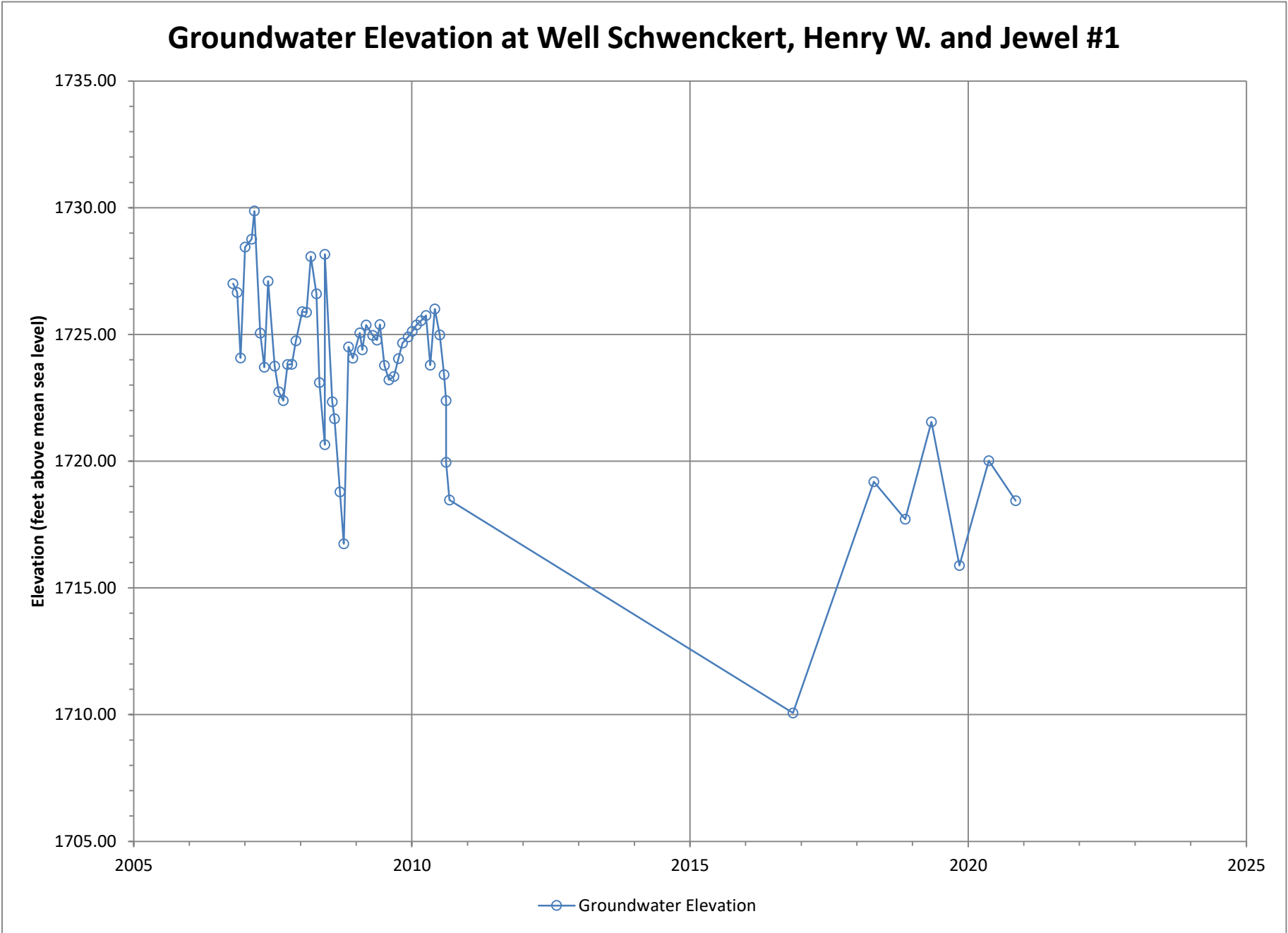


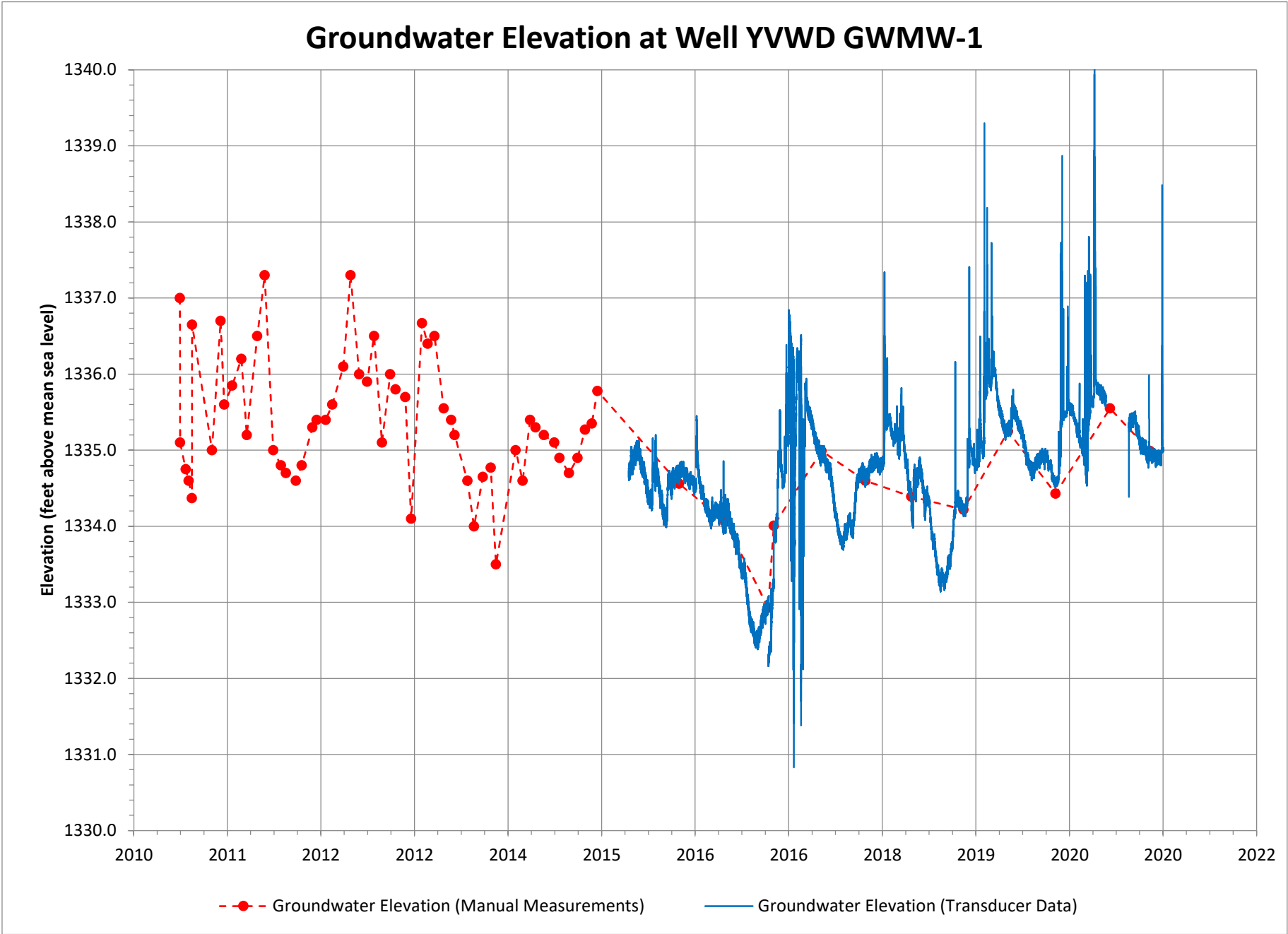
Groundwater Elevation at Well Fishermen's Retreat 2

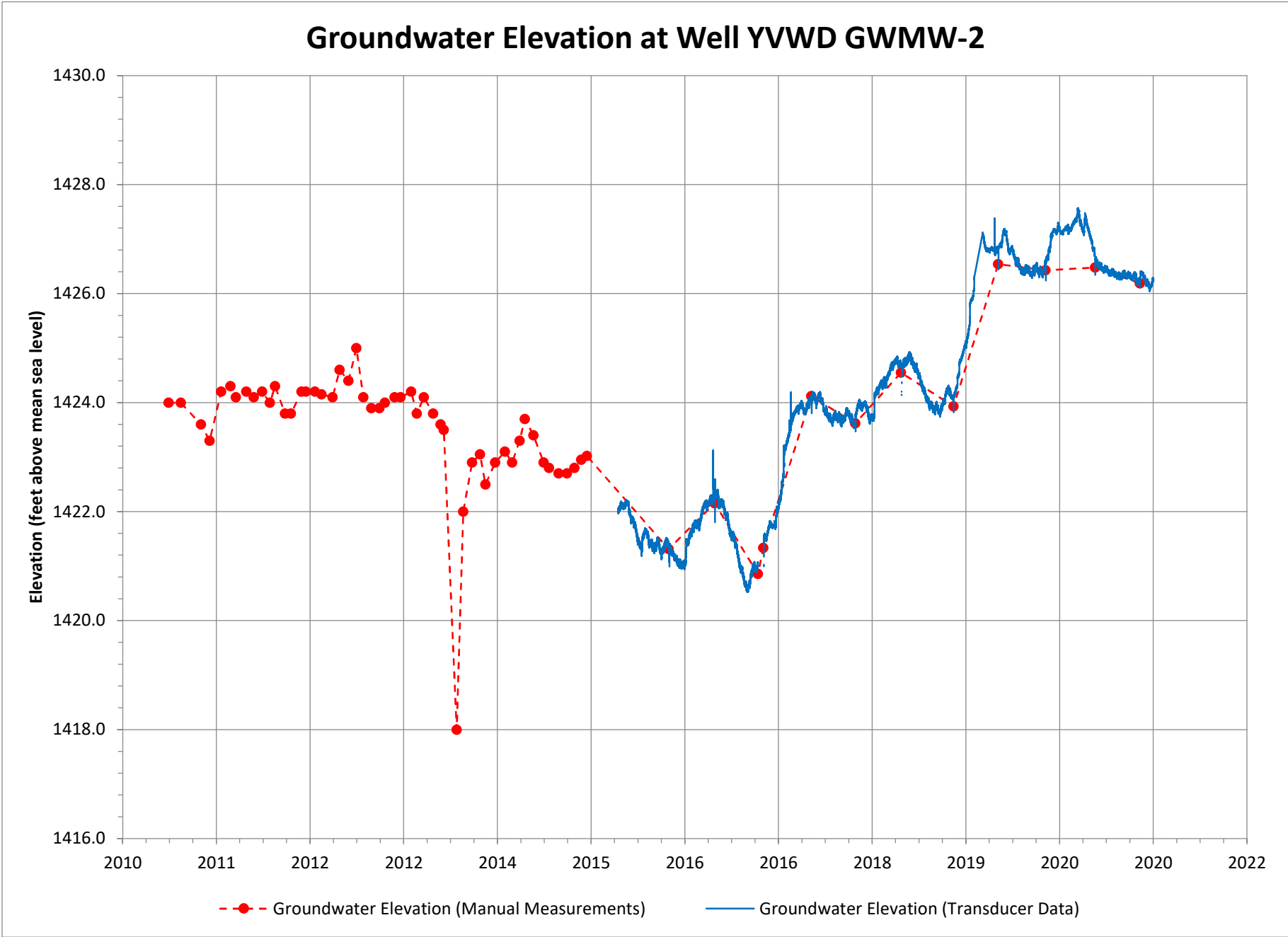


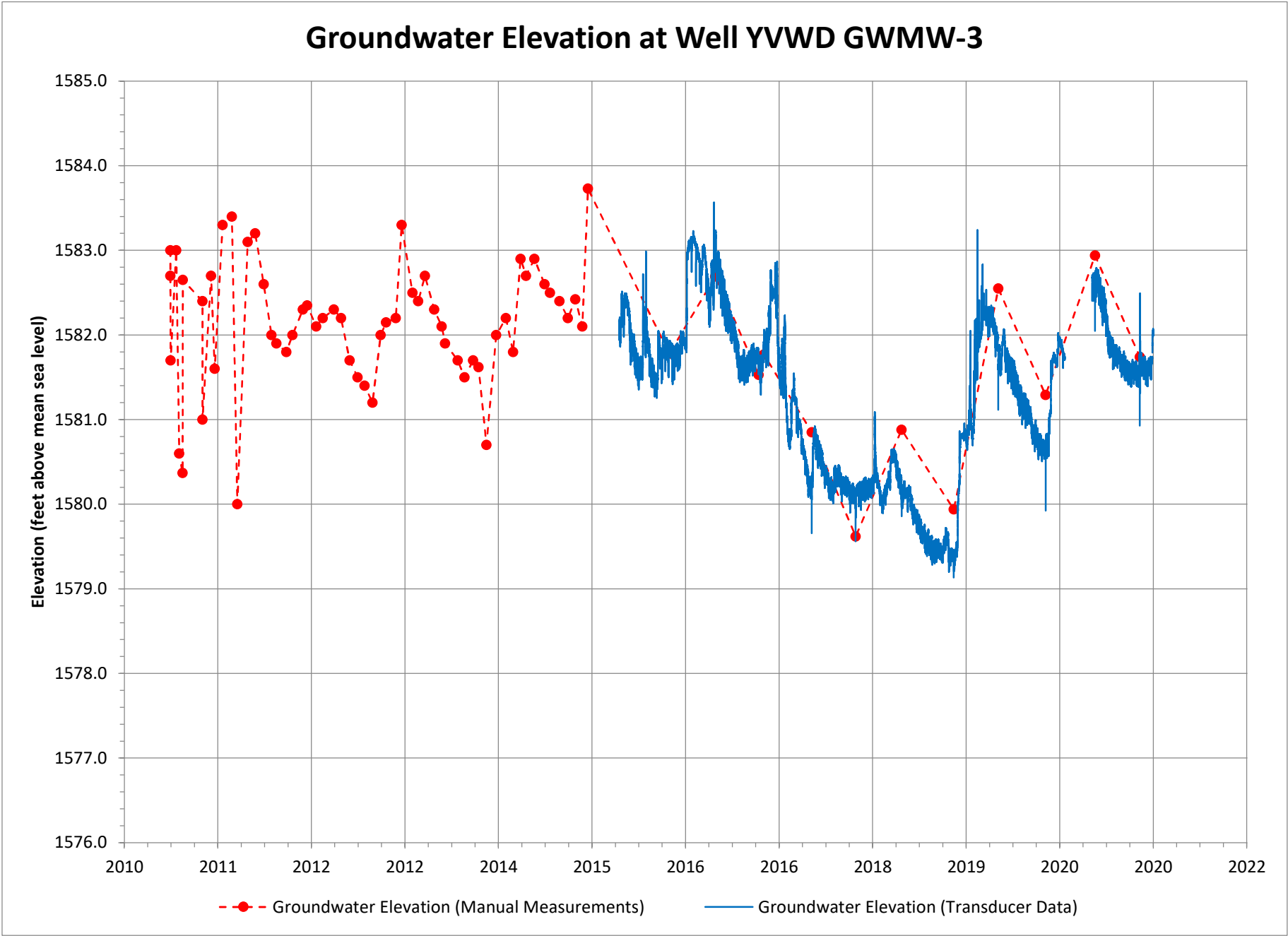


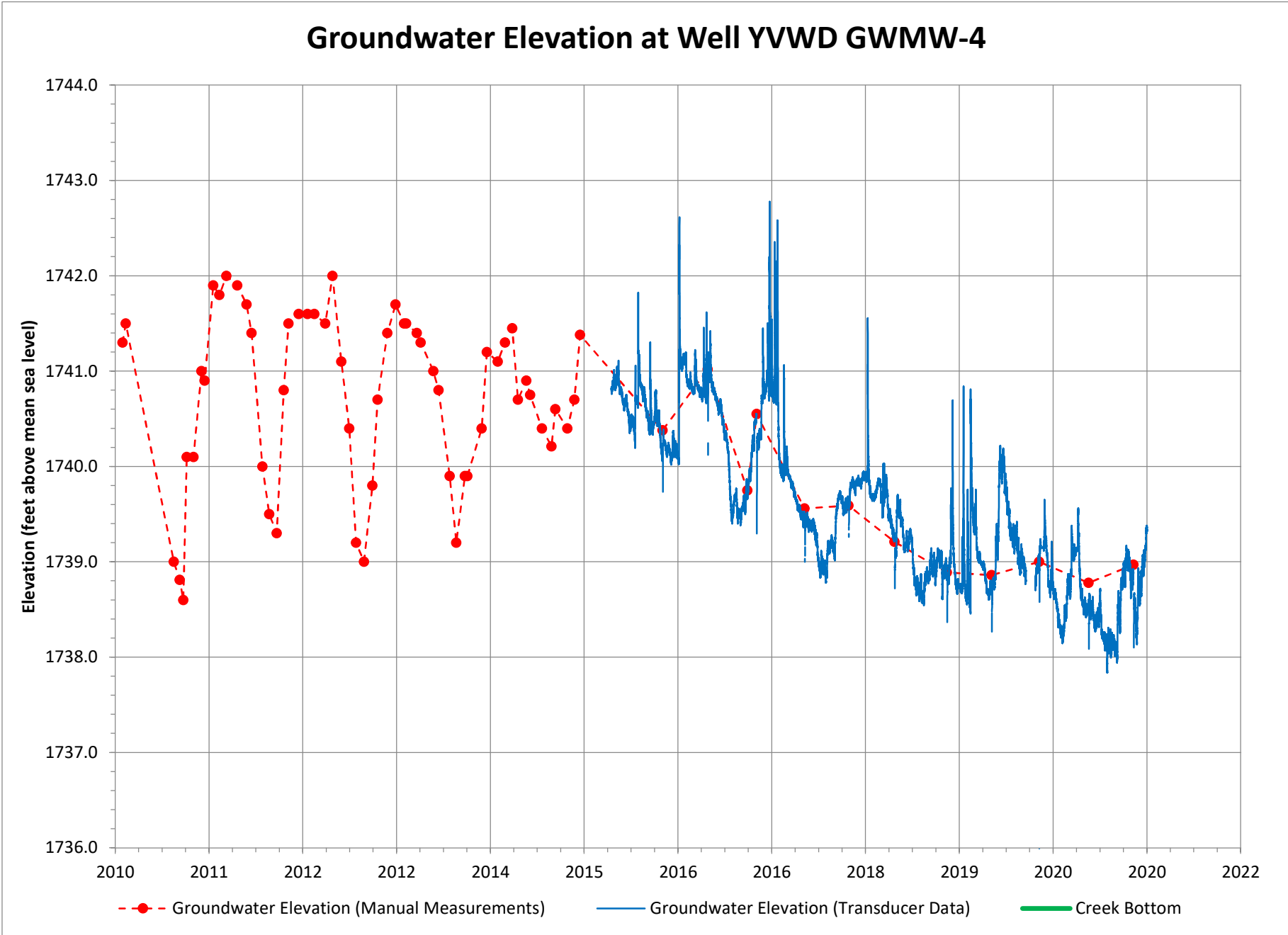




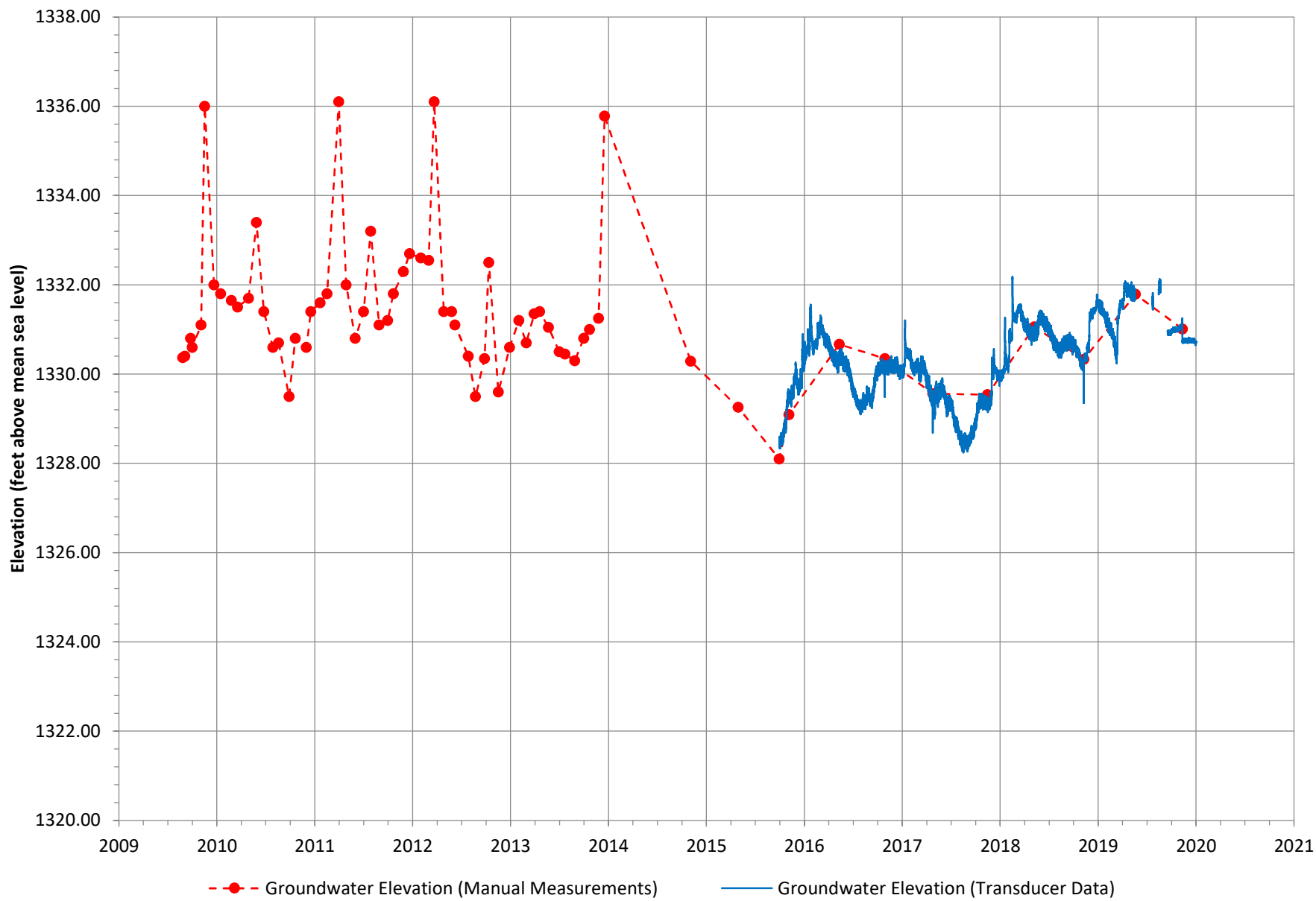




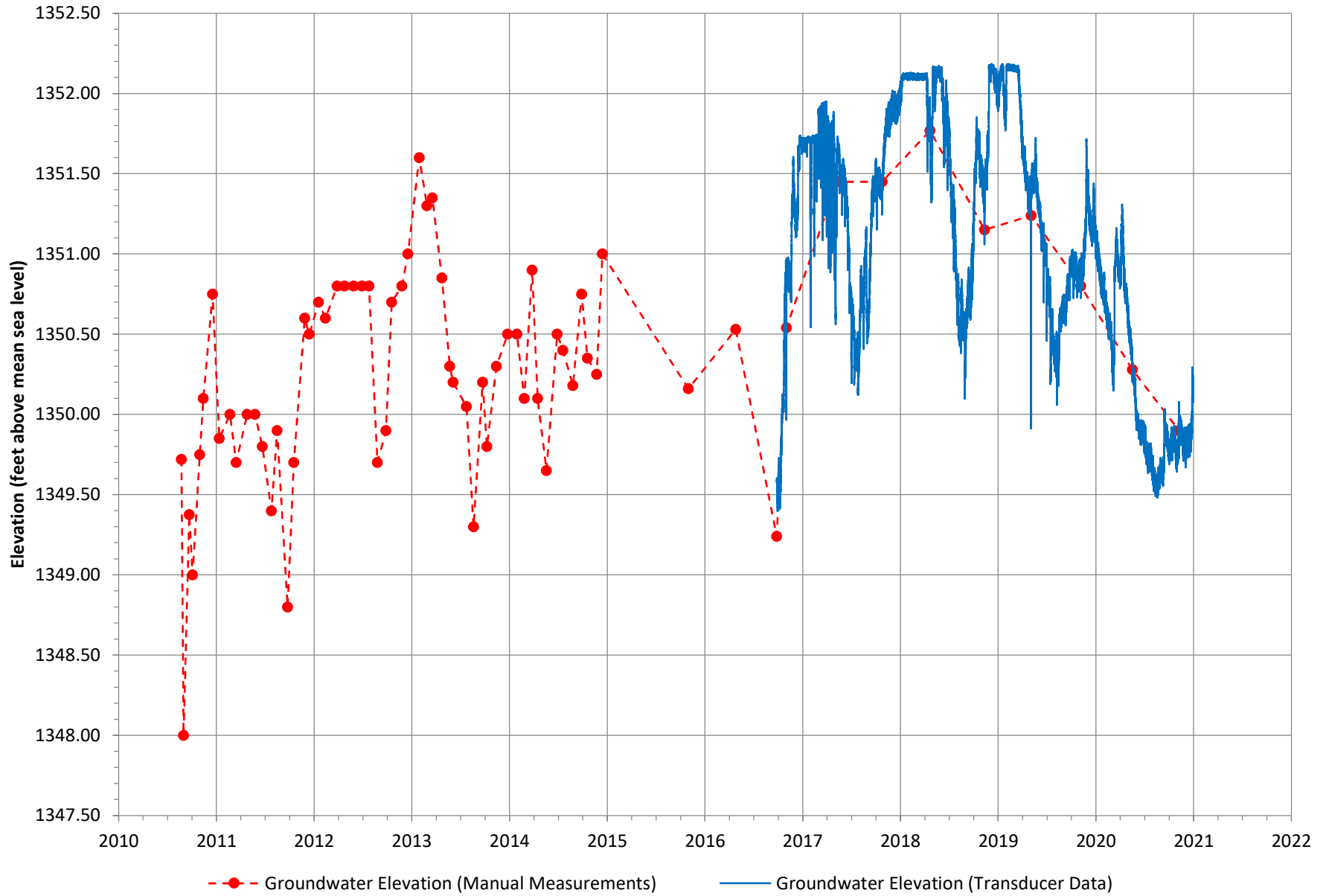


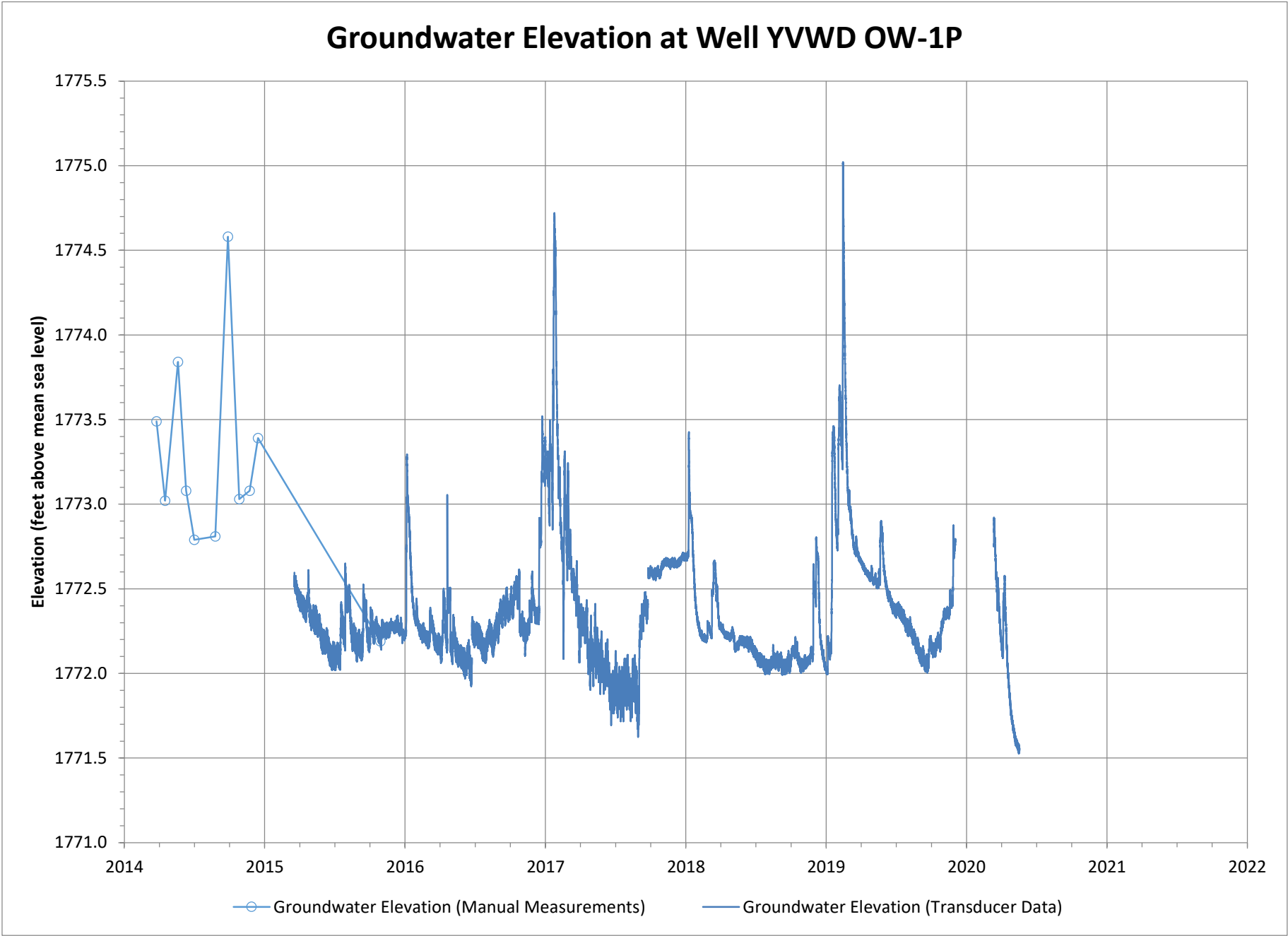


Groundwater Elevation at Well YVWD GMMW-5A

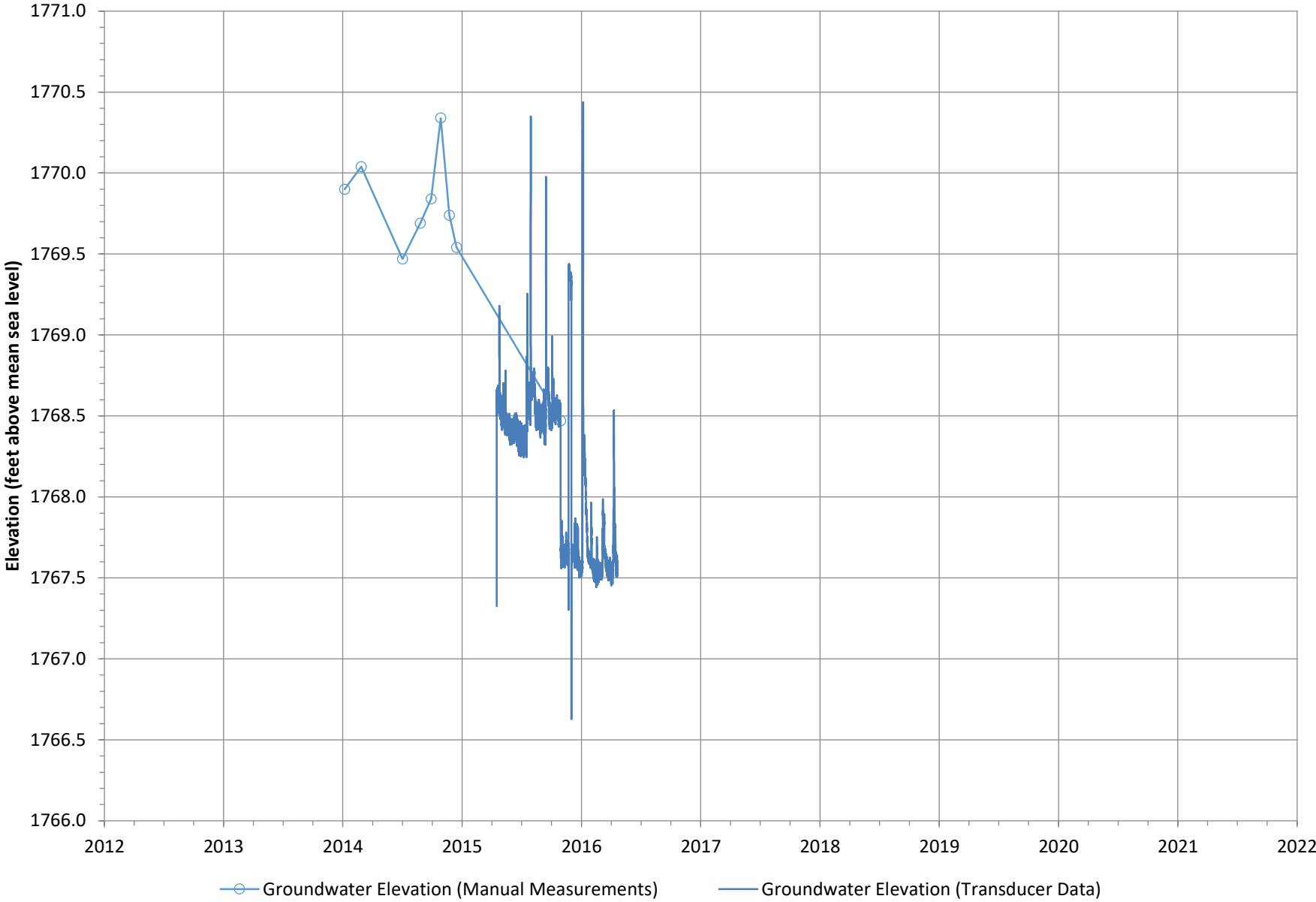


Groundwater Elevation at Well YVWD GMMW-5B

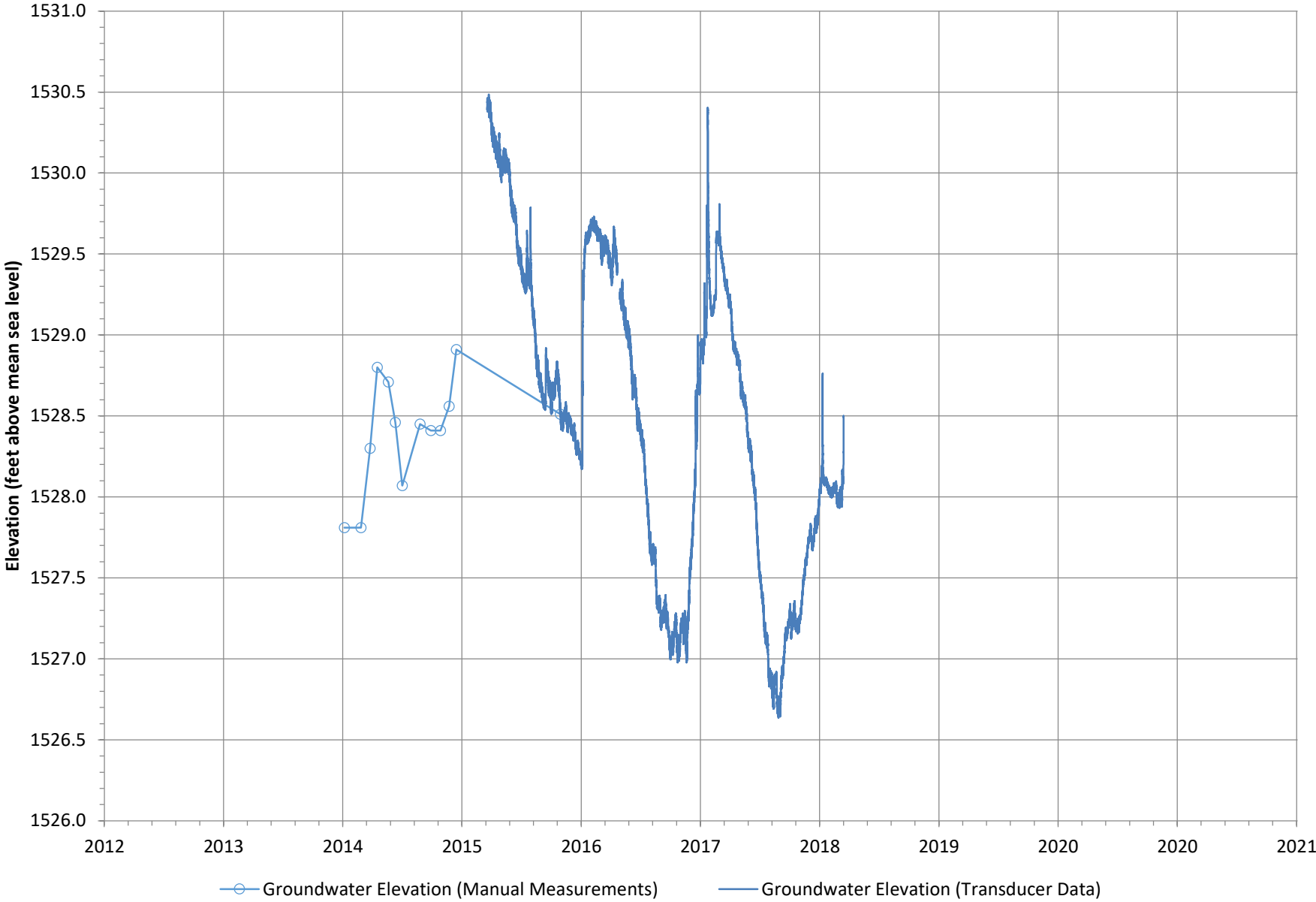


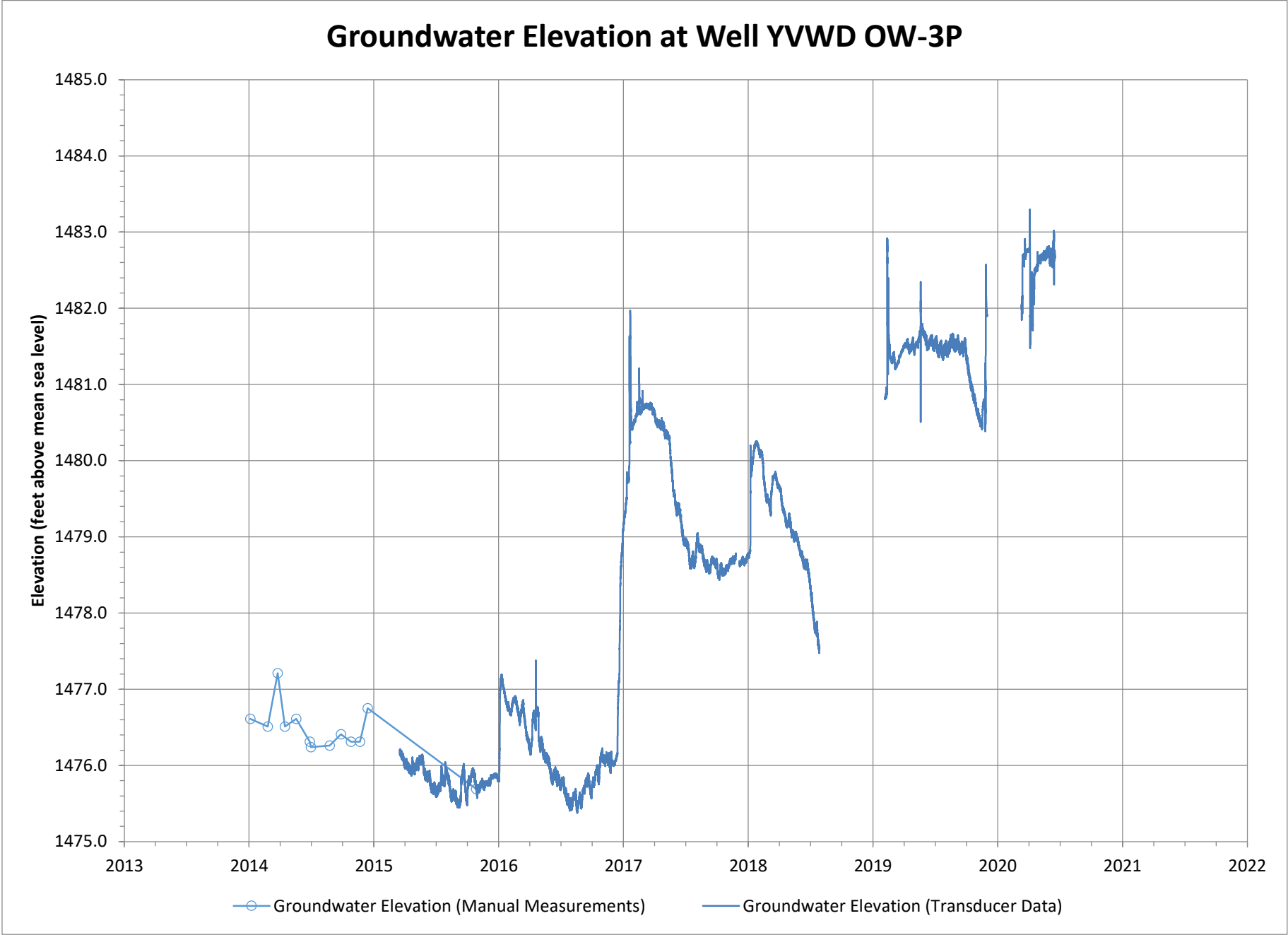


Groundwater Elevation at Well YVWD OW-1T



Groundwater Elevation at Well YVWD OW-2P





APPENDIX G

Hydrographs of Total Dissolved Solids and Nitrate (as Nitrogen) Groundwater Concentrations at Wells in the San Timoteo Groundwater Management Zone

APPENDIX G

Historical Total Dissolved Solids and Nitrate (as Nitrogen) Groundwater Concentrations at Wells in the San Timoteo Groundwater Management Zone

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- G-26 Groundwater Quality Hydrograph at Well YVWD GWMW-5B
- G-27 Groundwater Quality Hydrograph at Well YVWD GWMW-5C

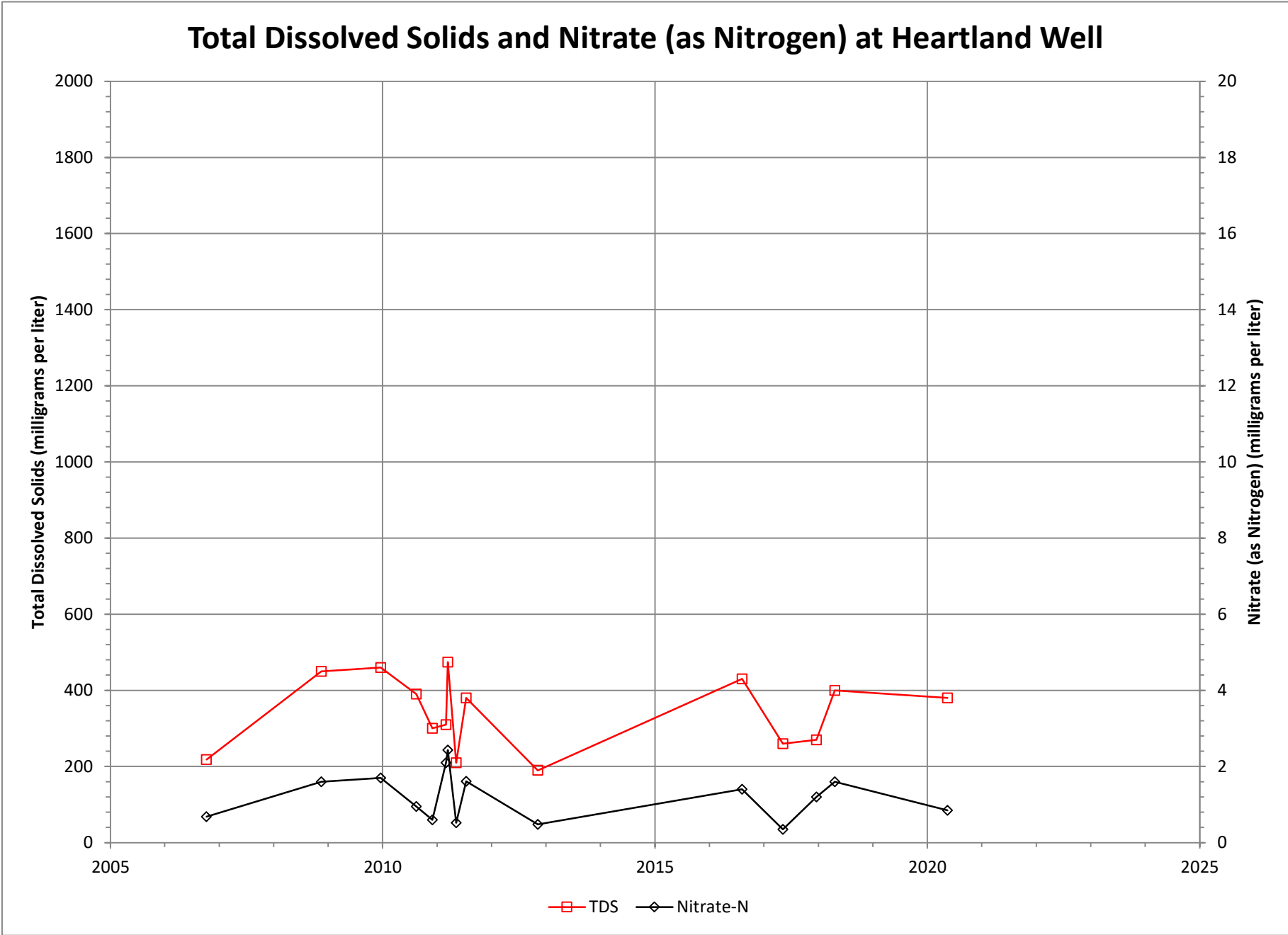


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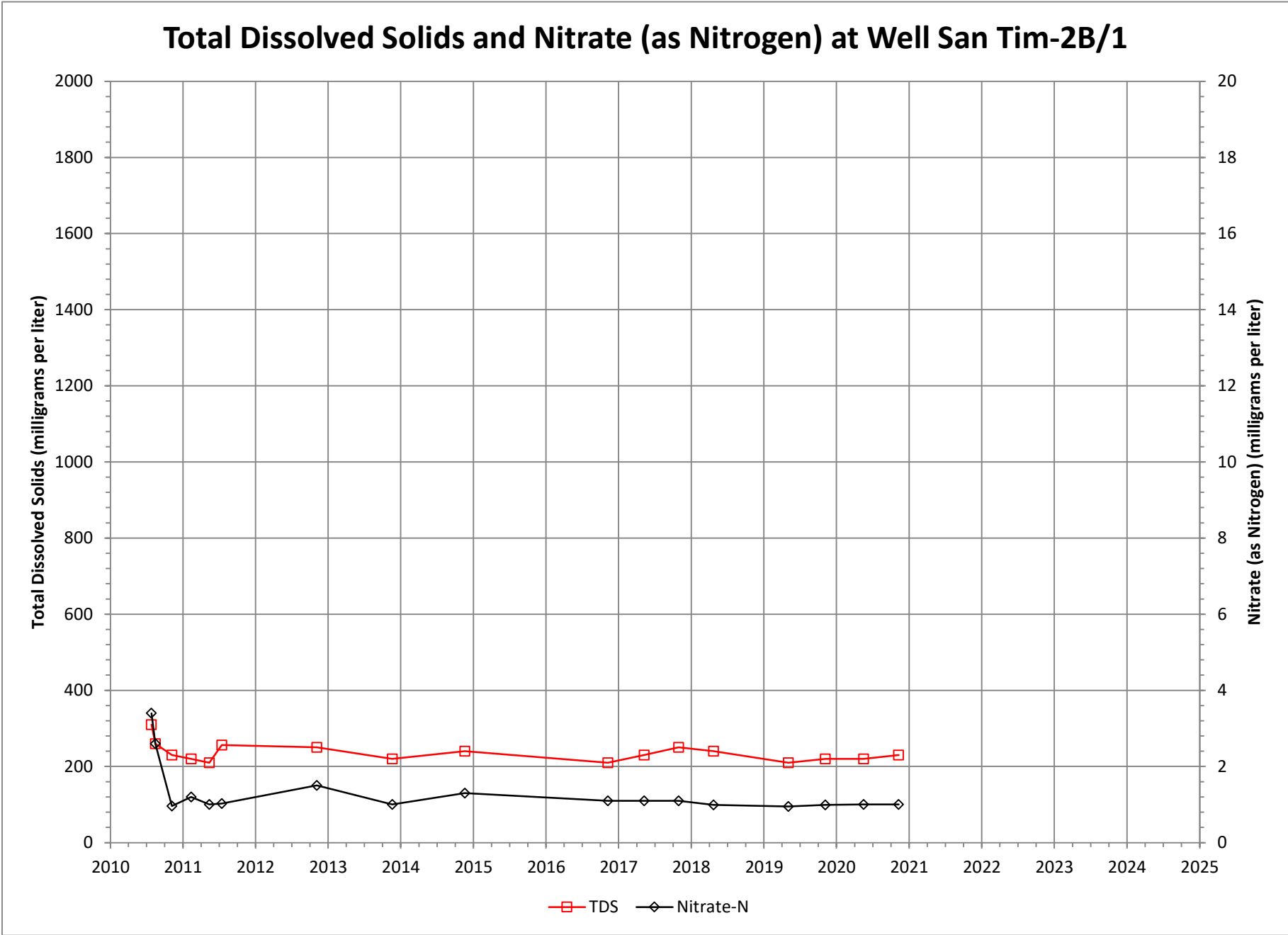


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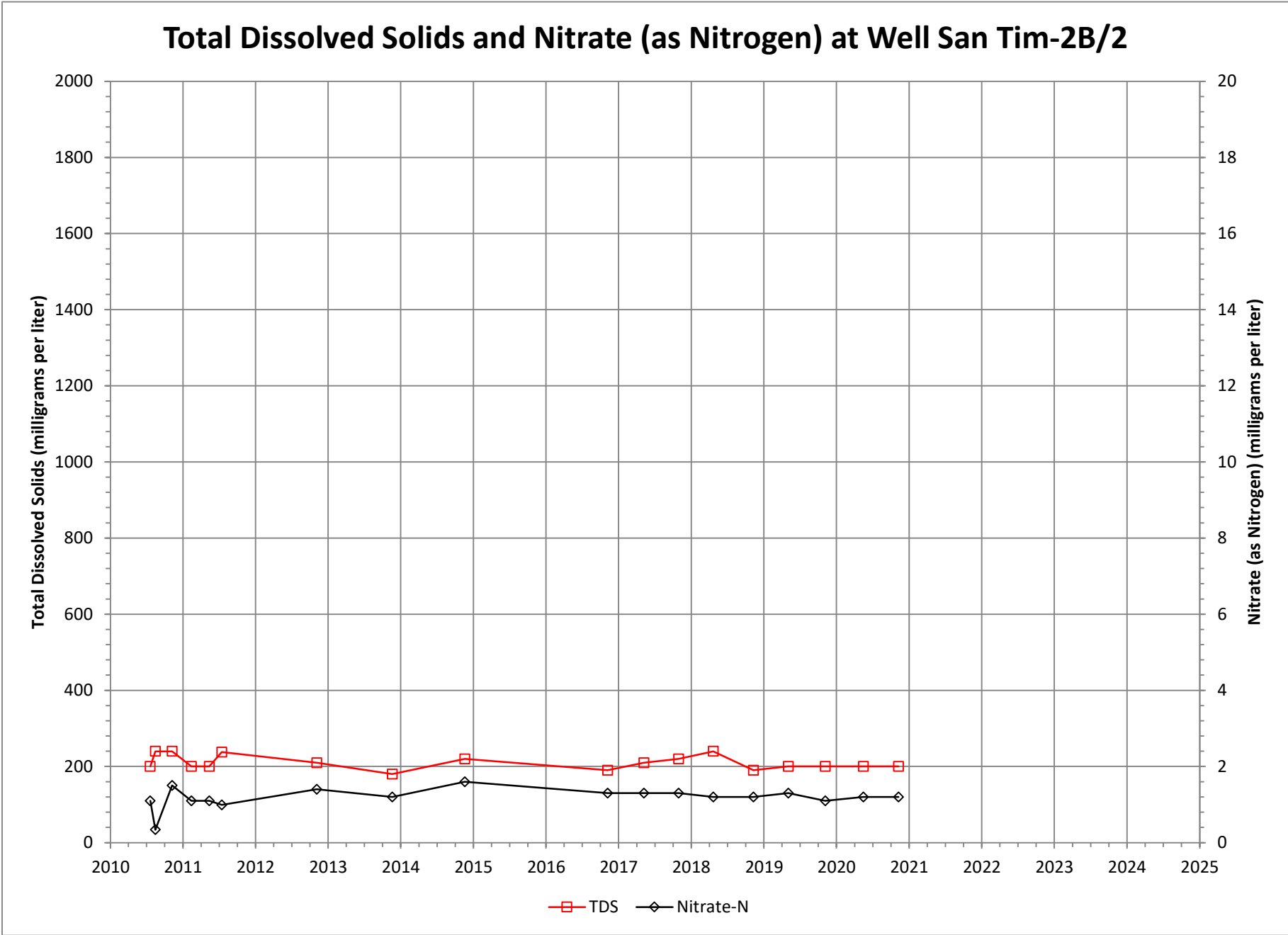


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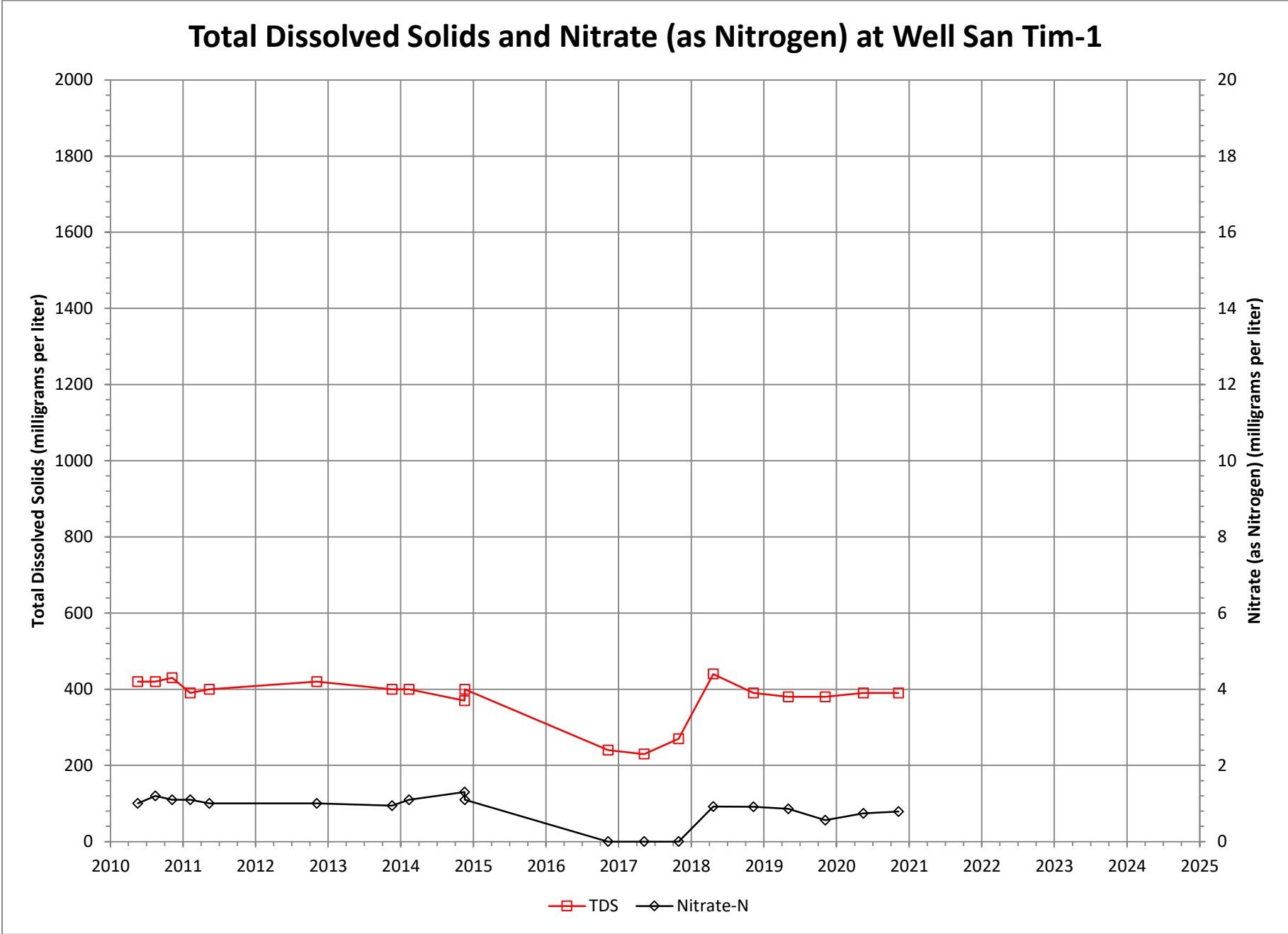


Figure G-4 645

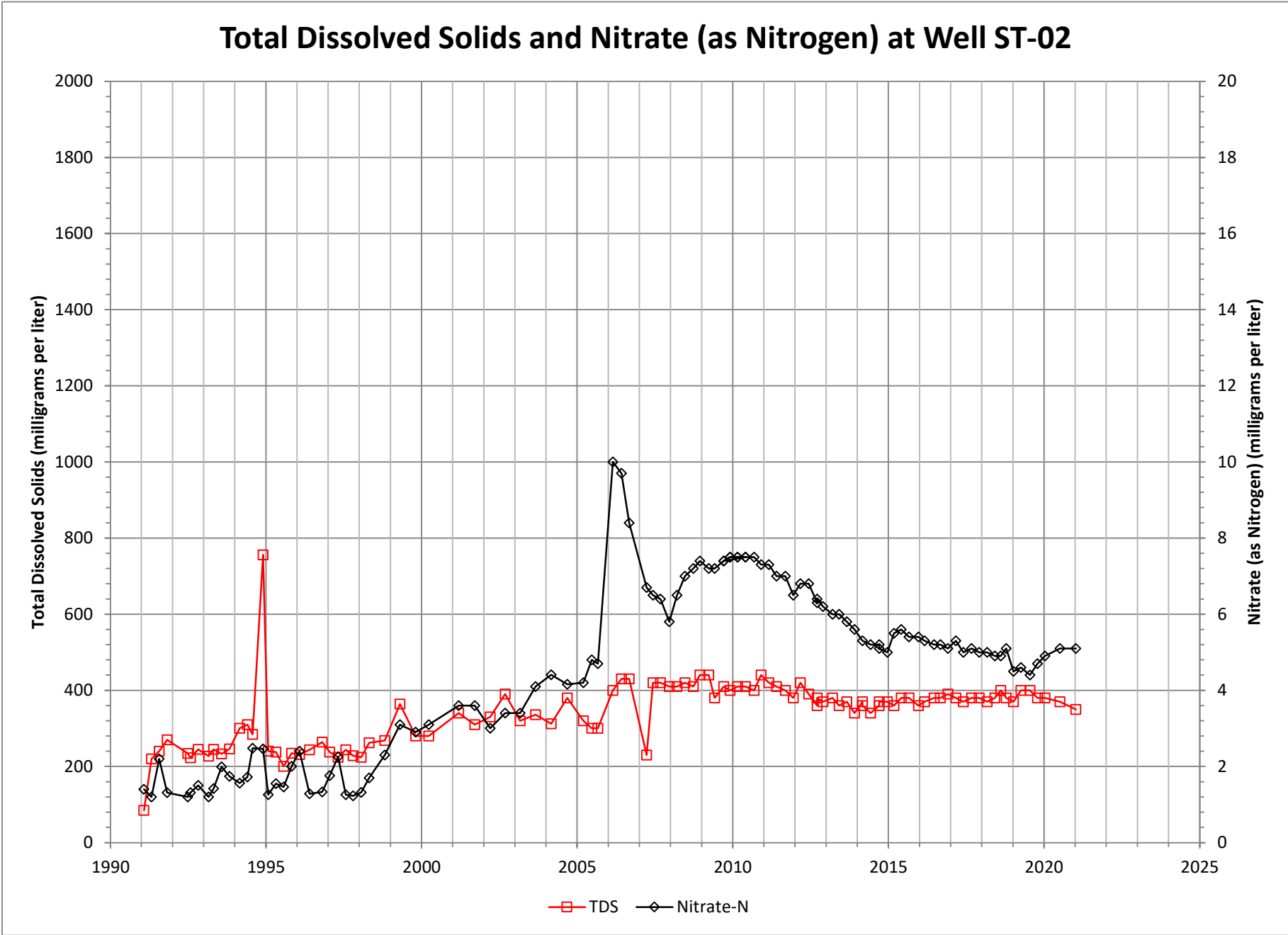
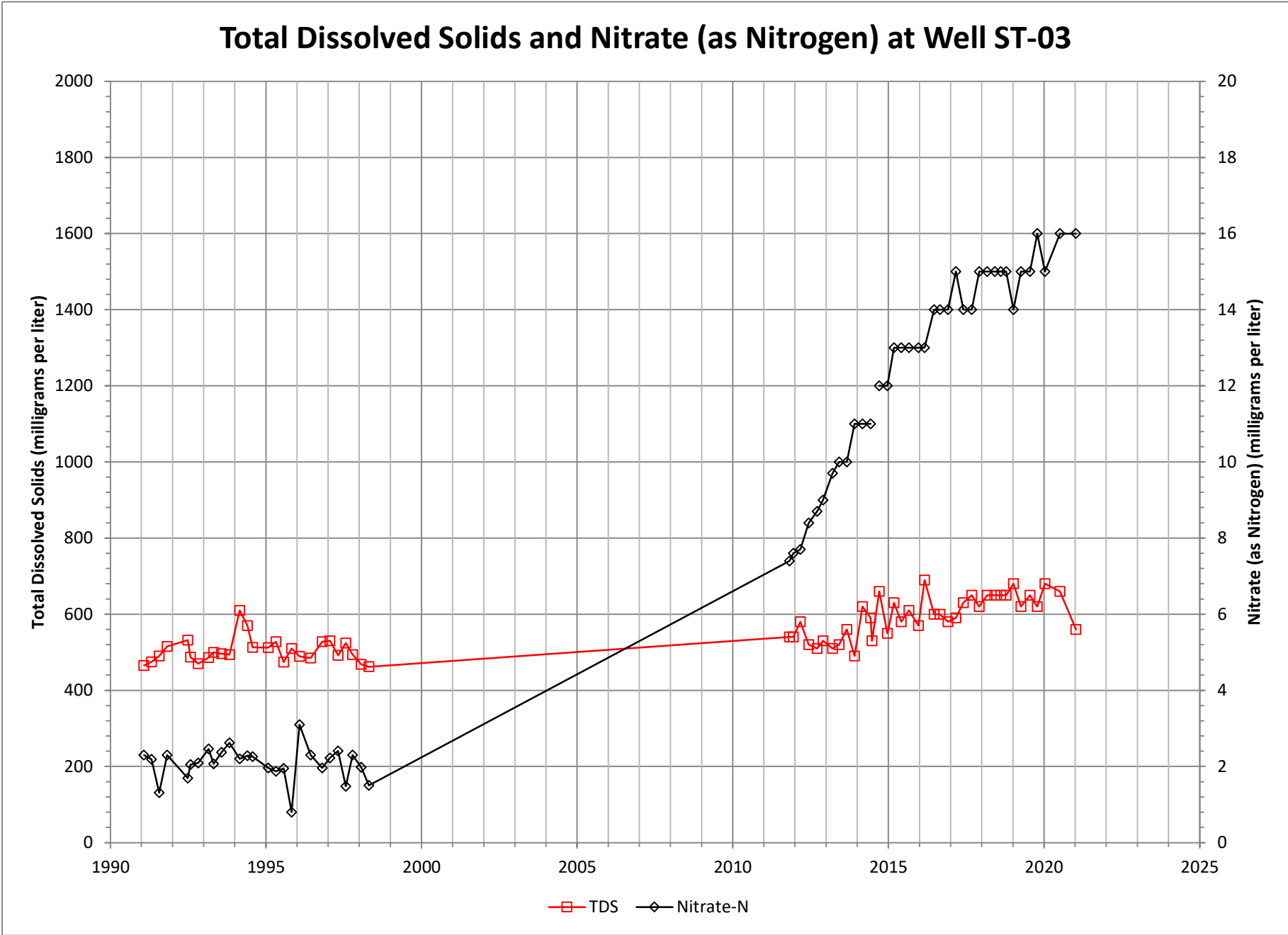


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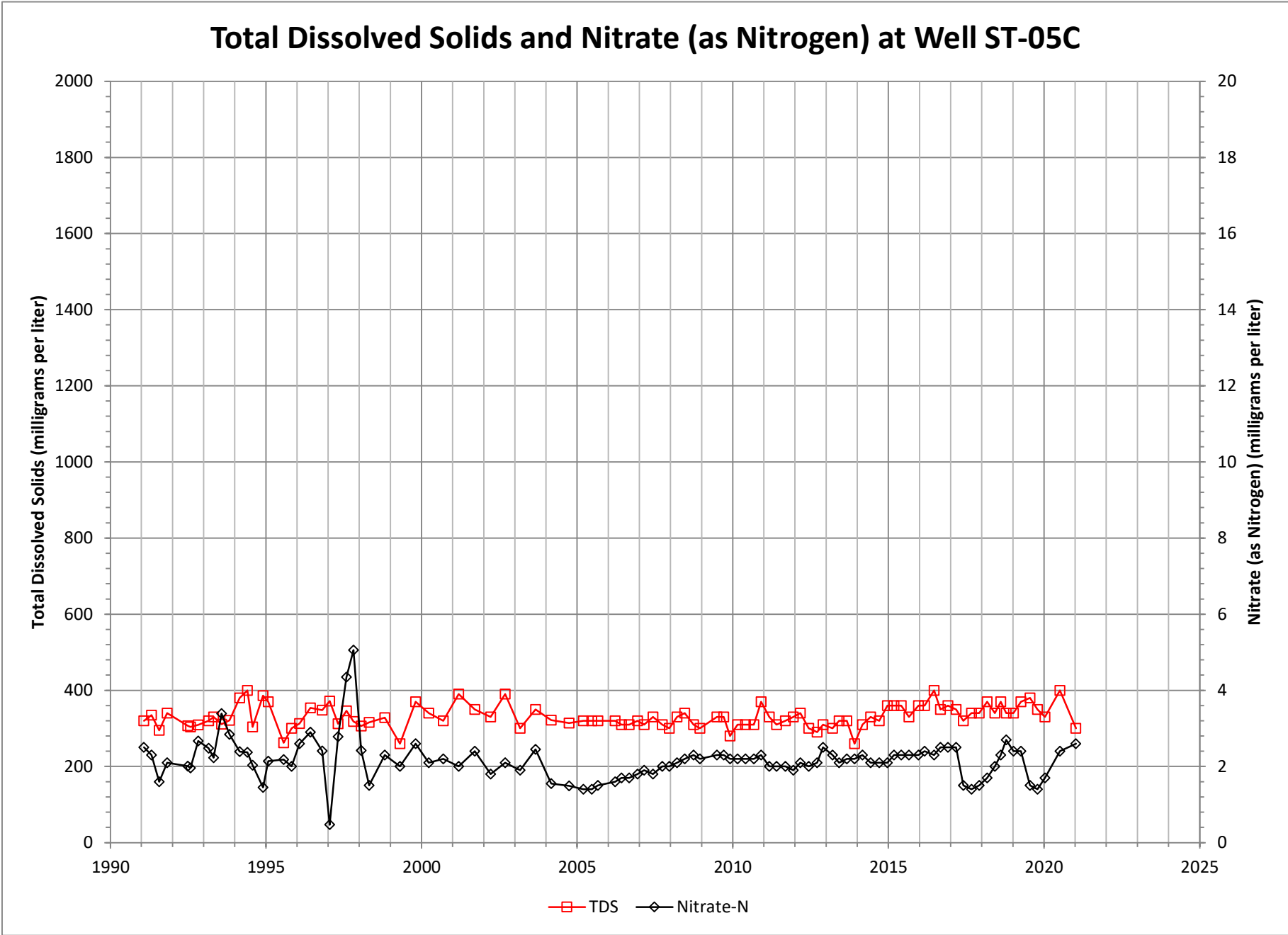


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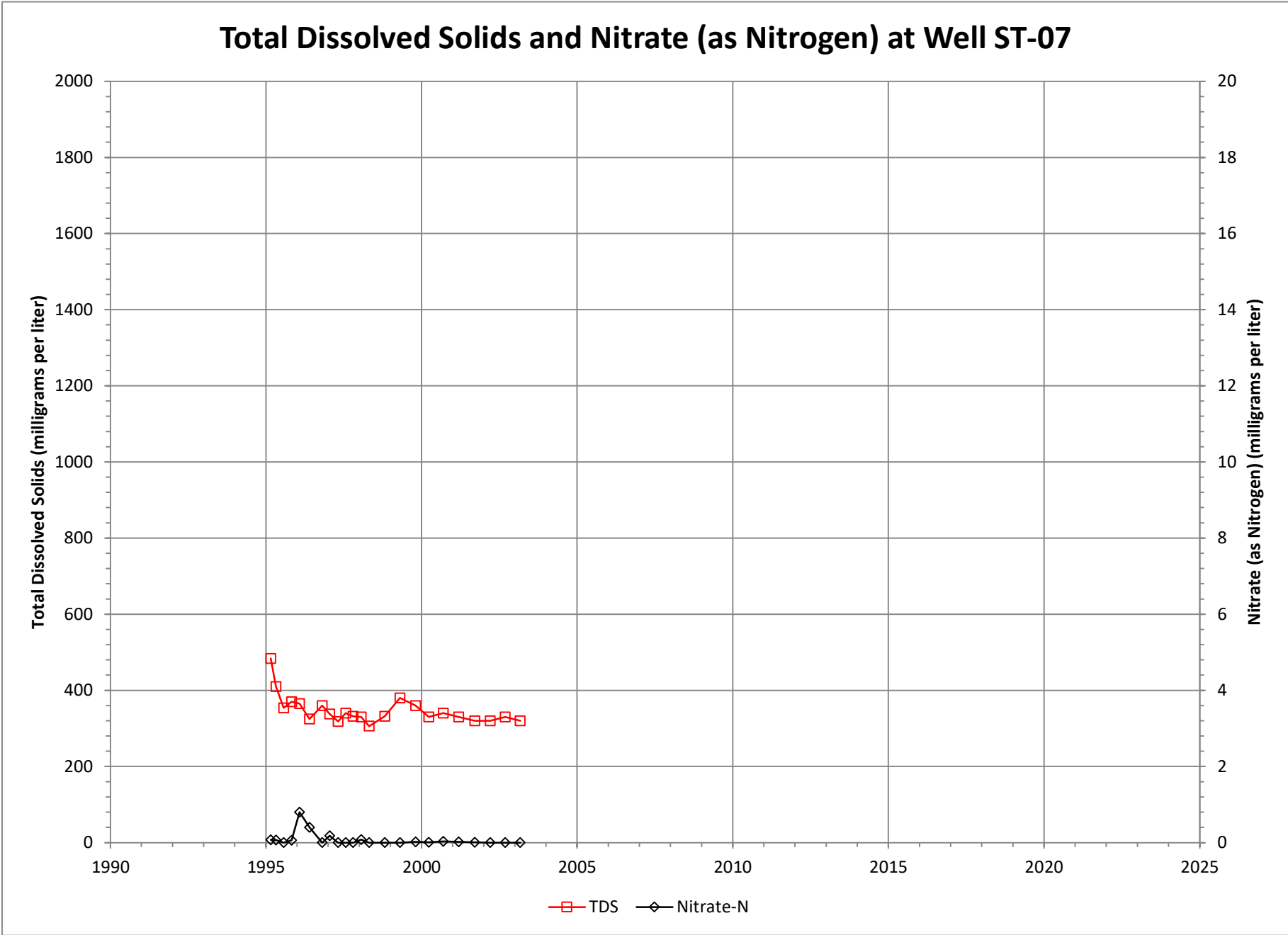


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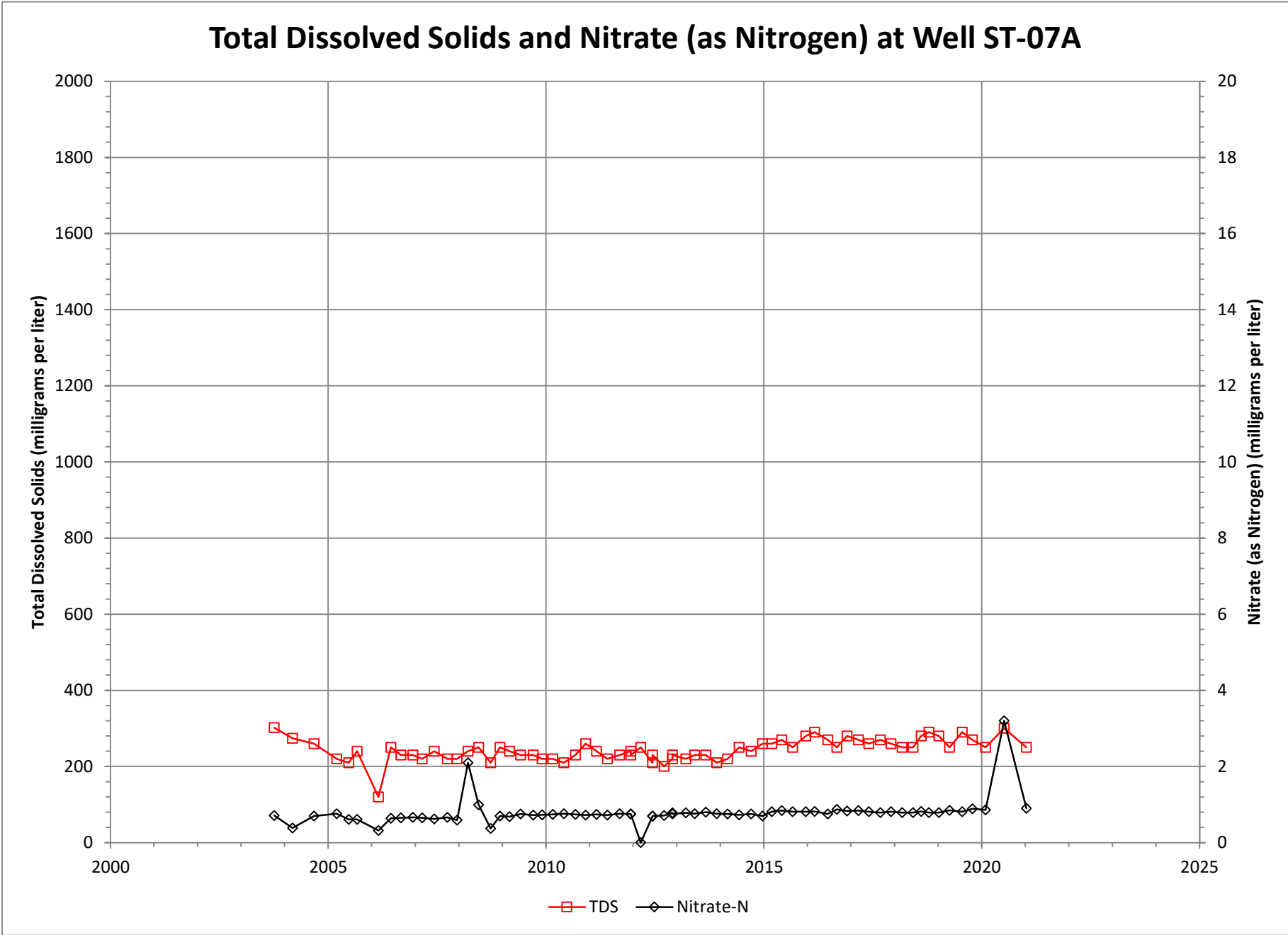


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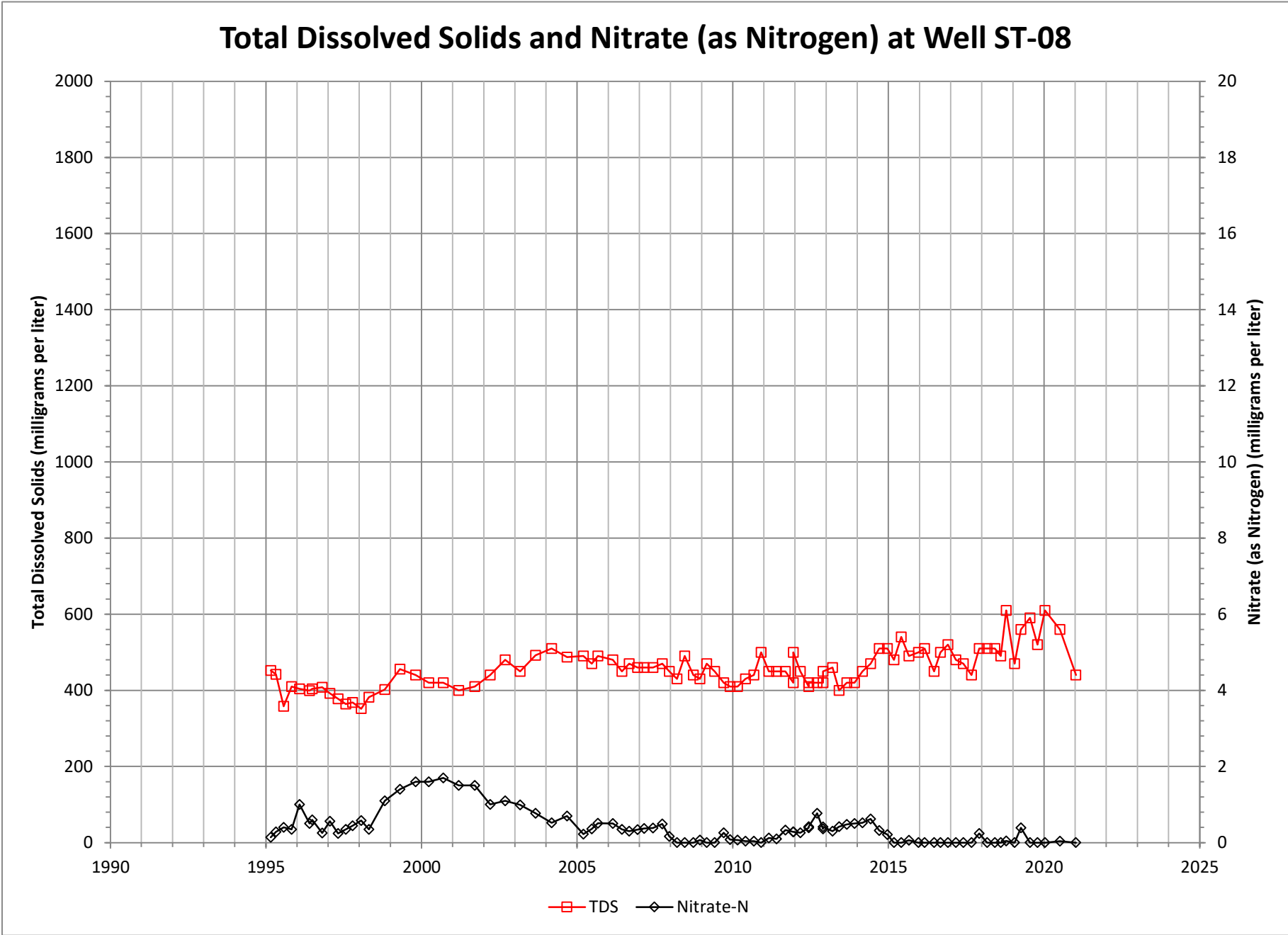


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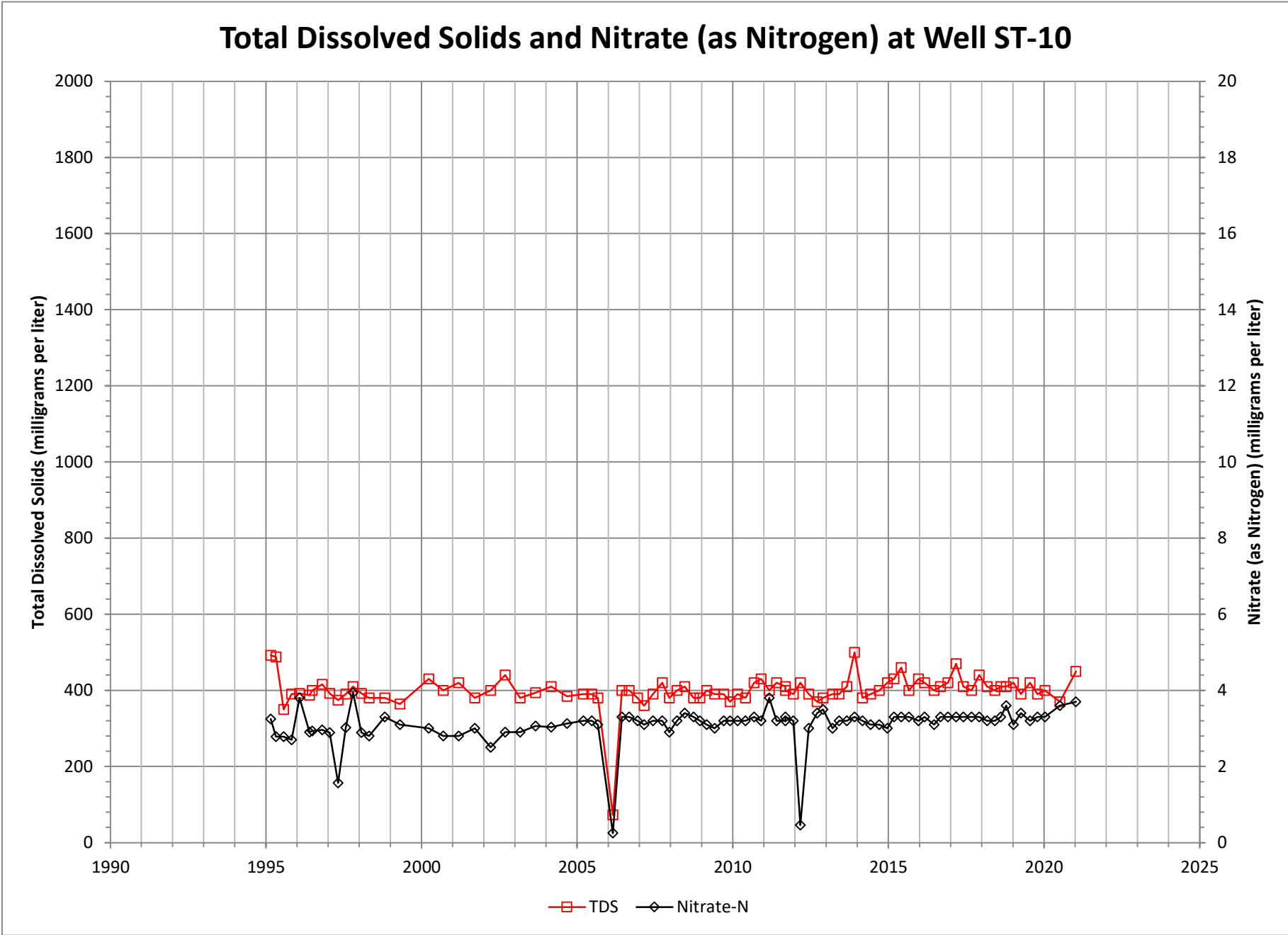


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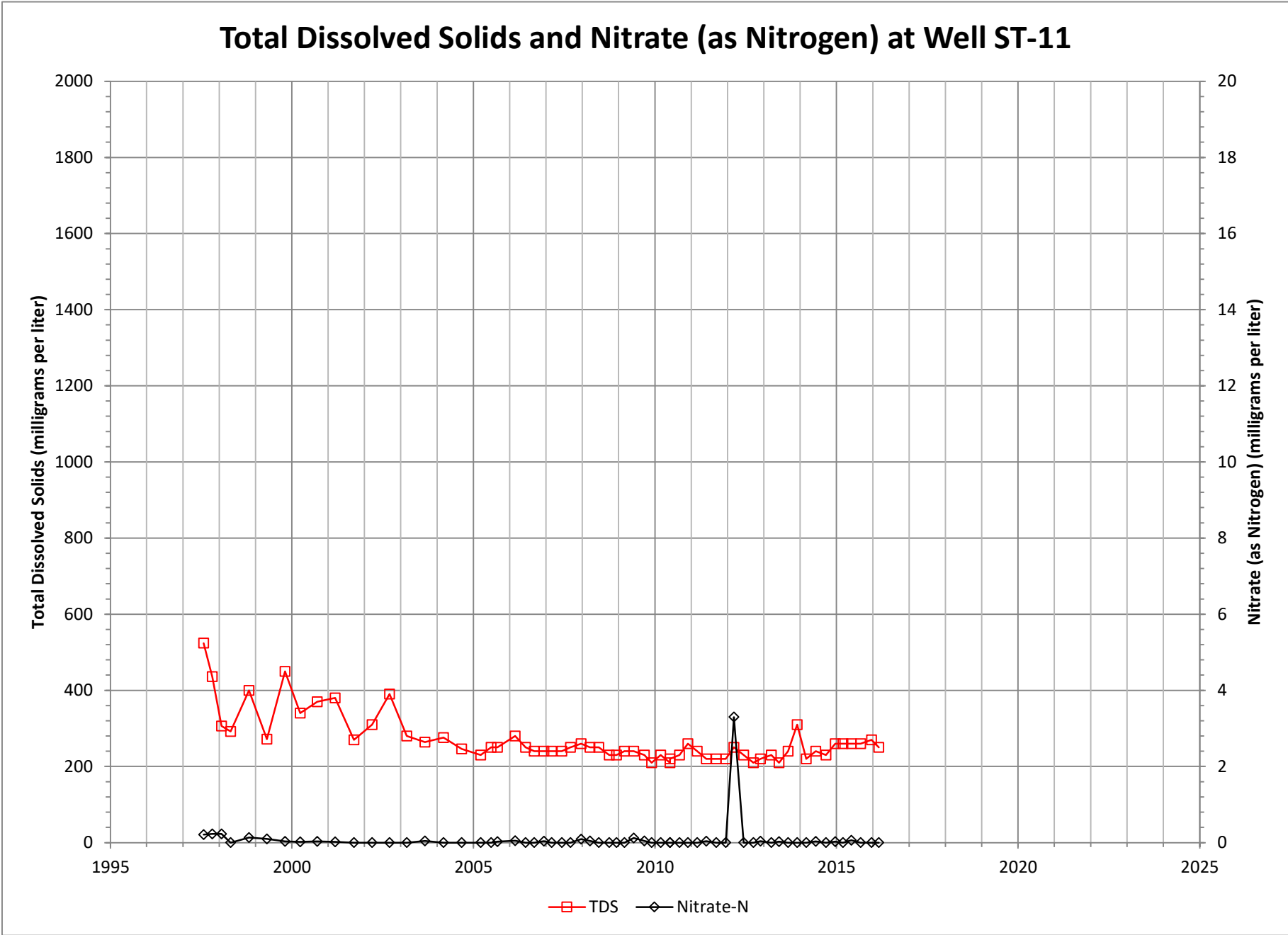
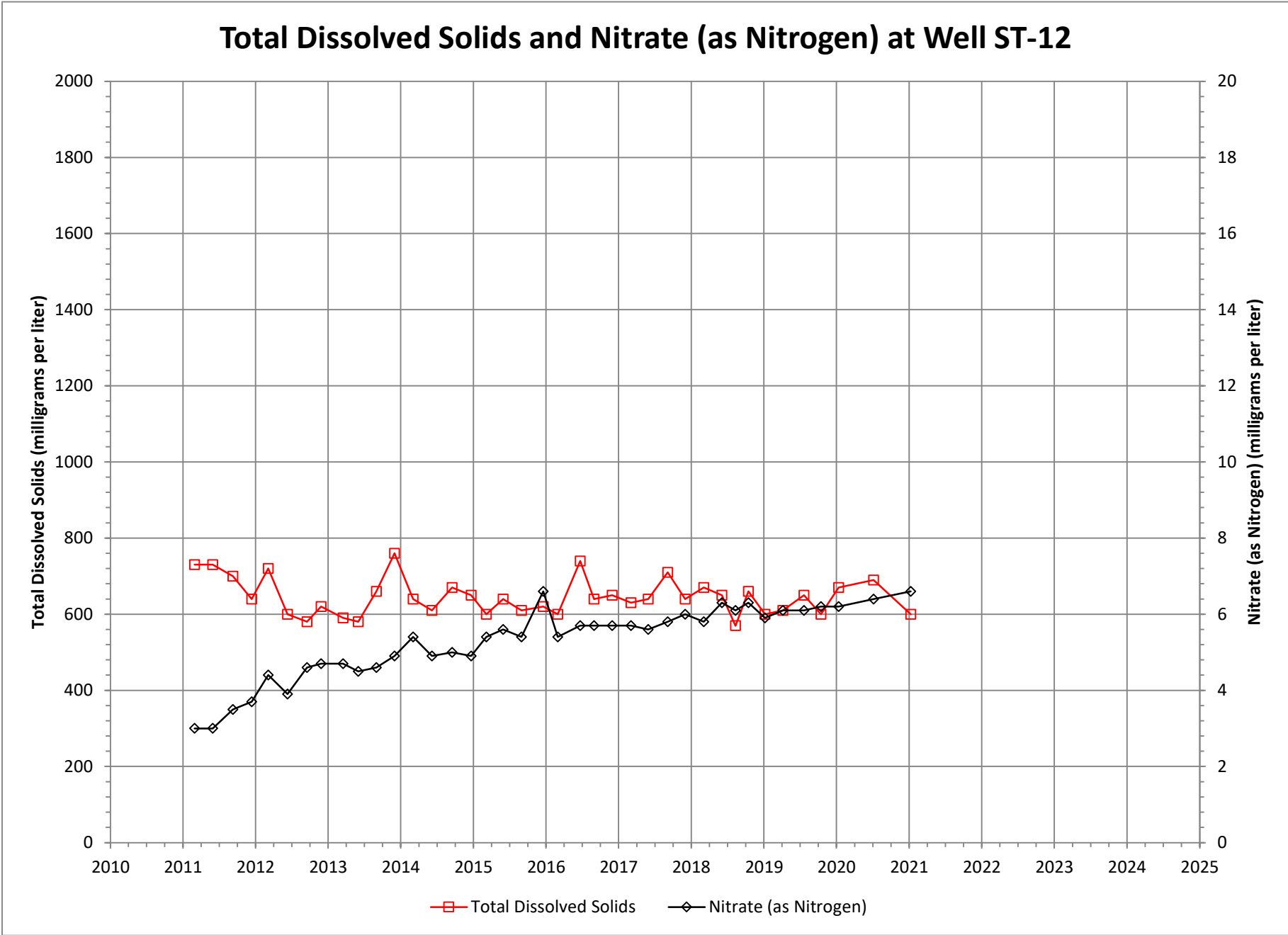


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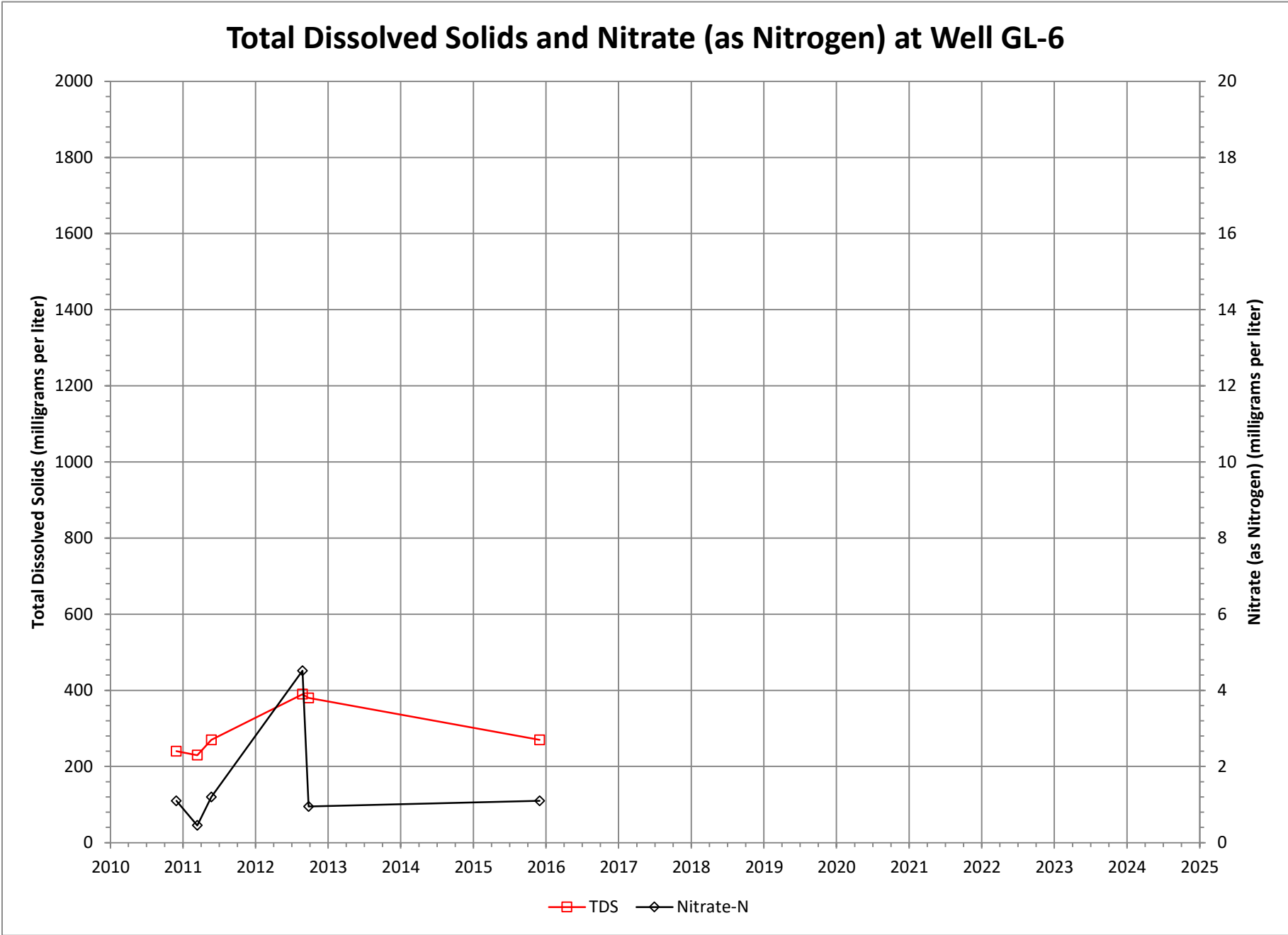


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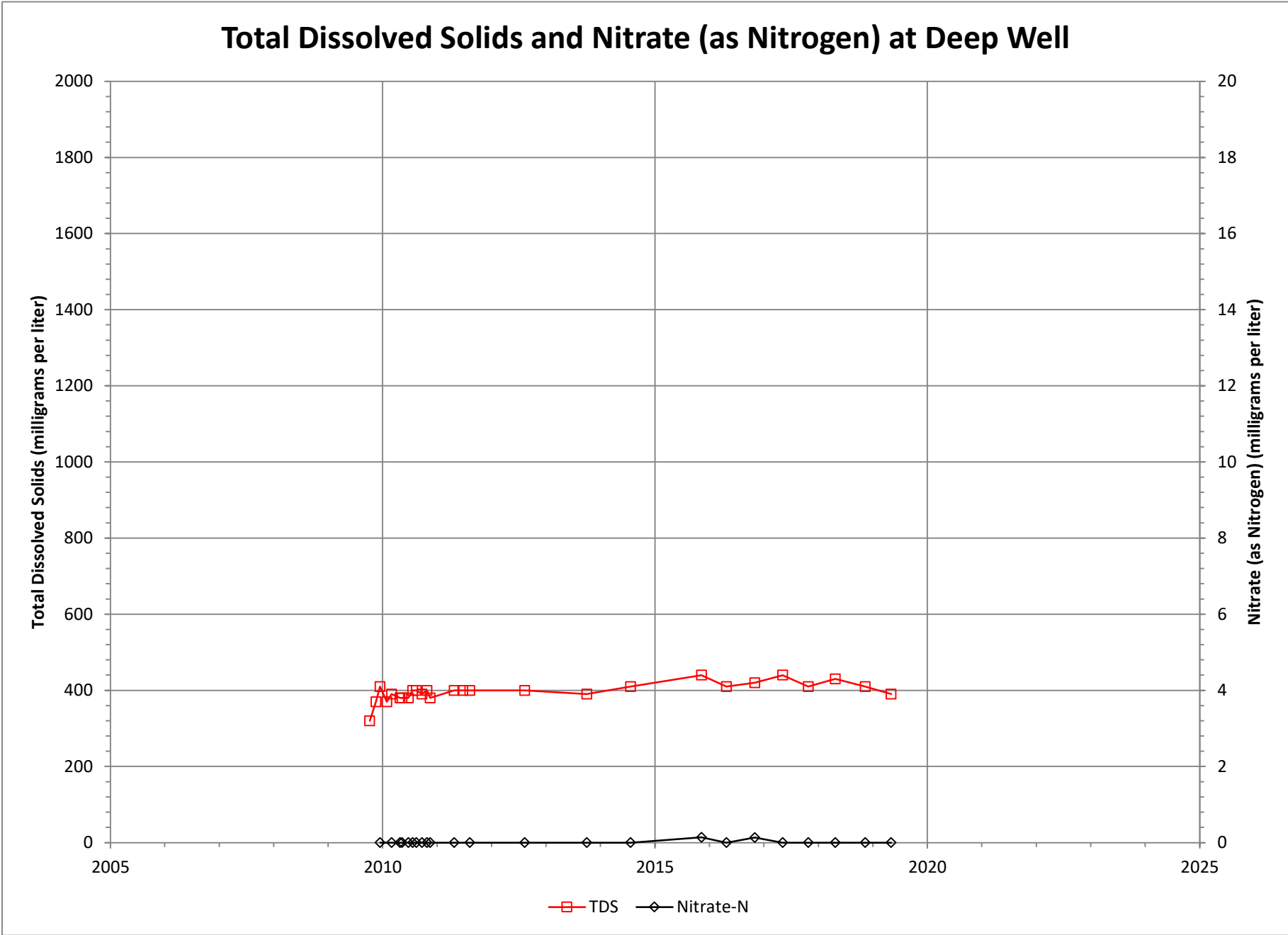
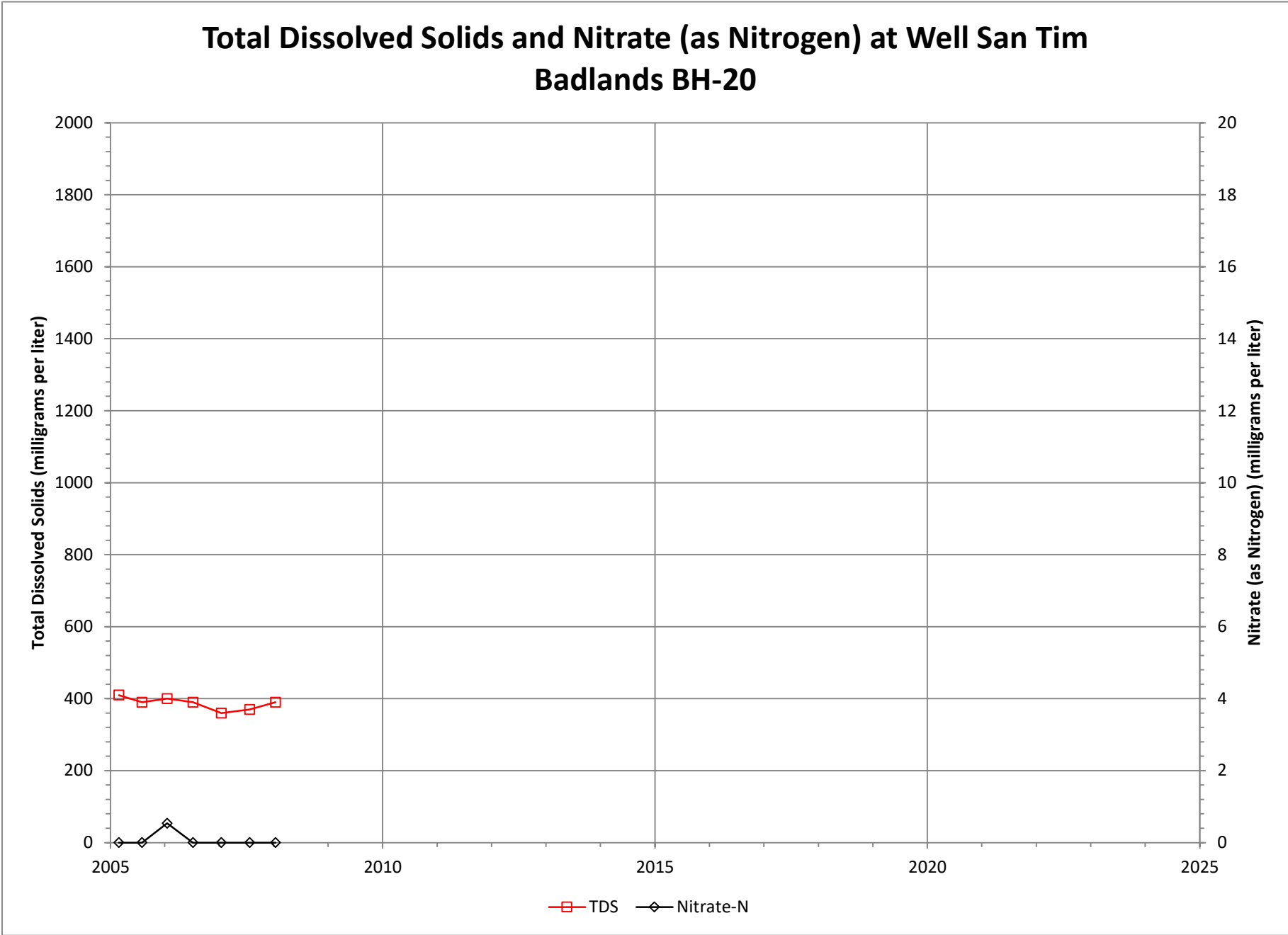
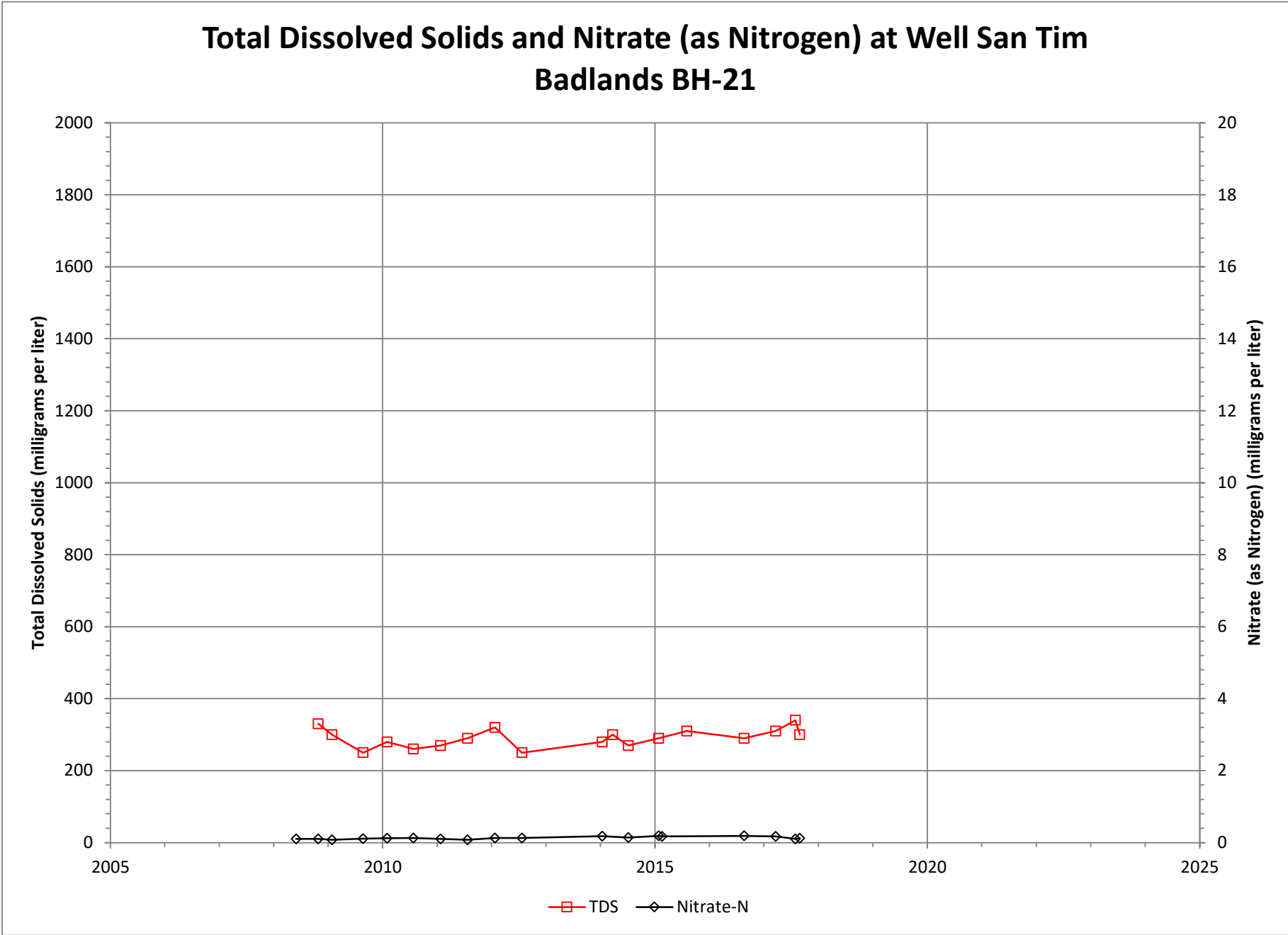
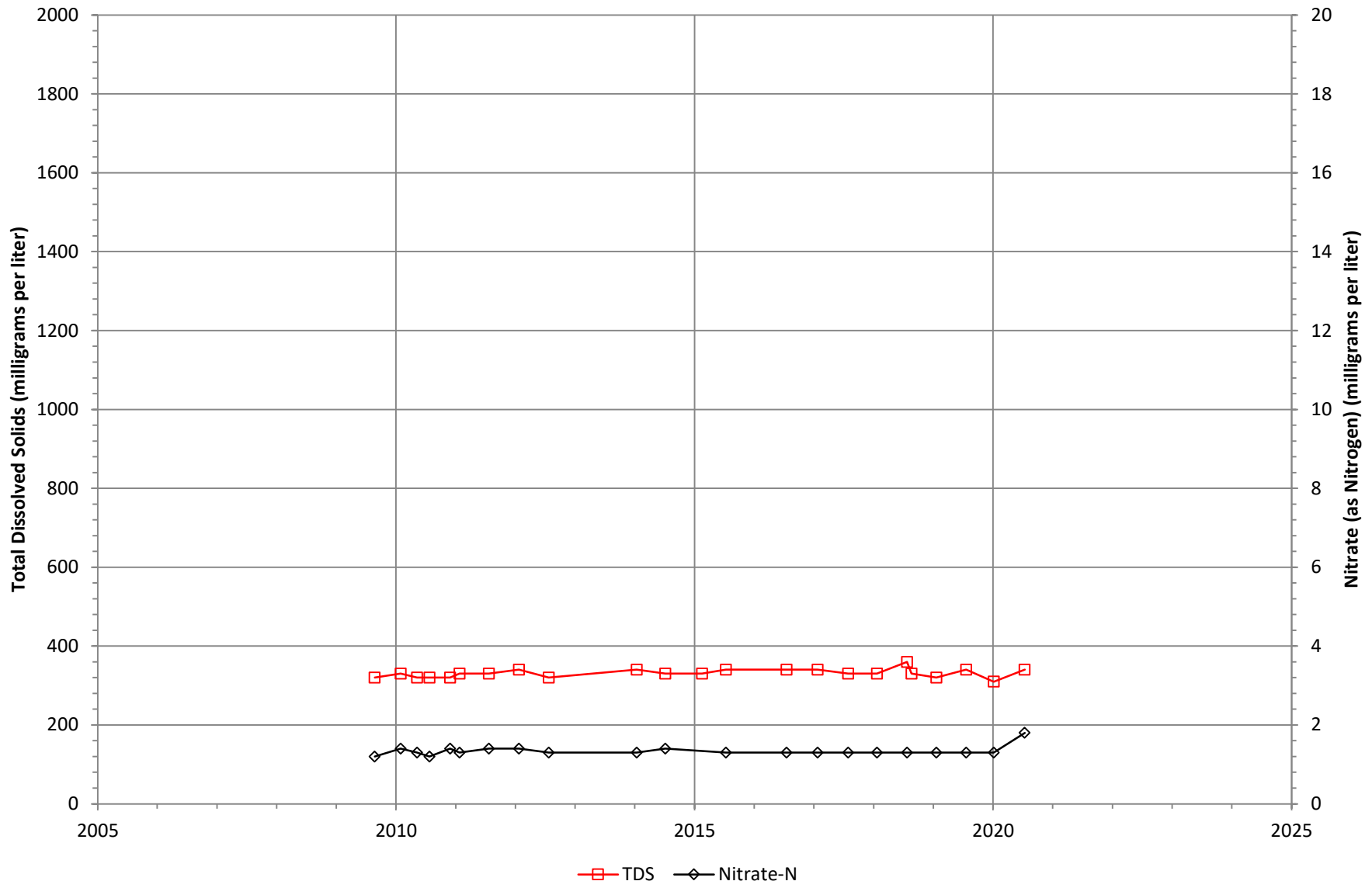


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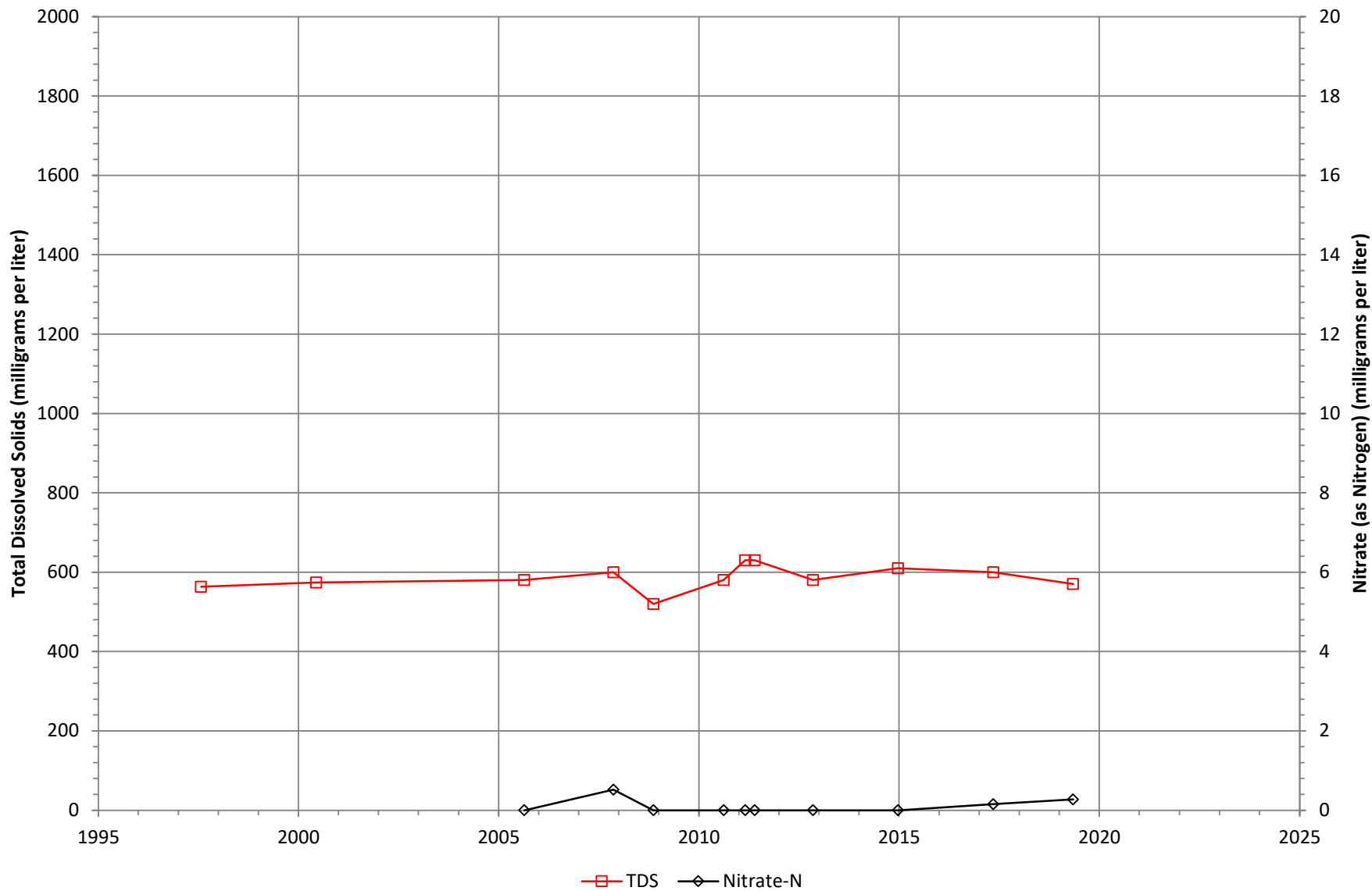




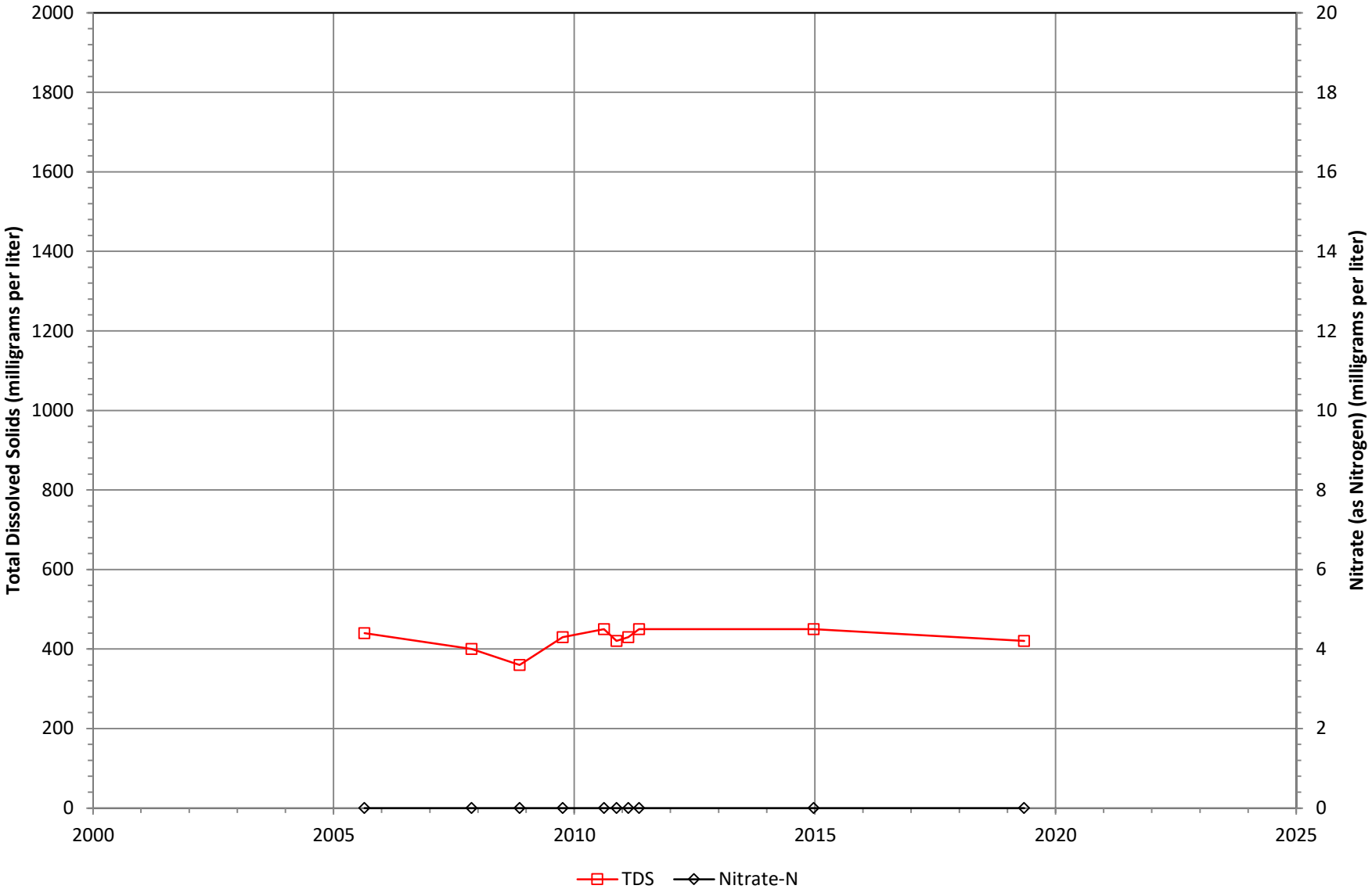
Total Dissolved Solids and Nitrate (as Nitrogen) at Well San Tim Badlands BH-24



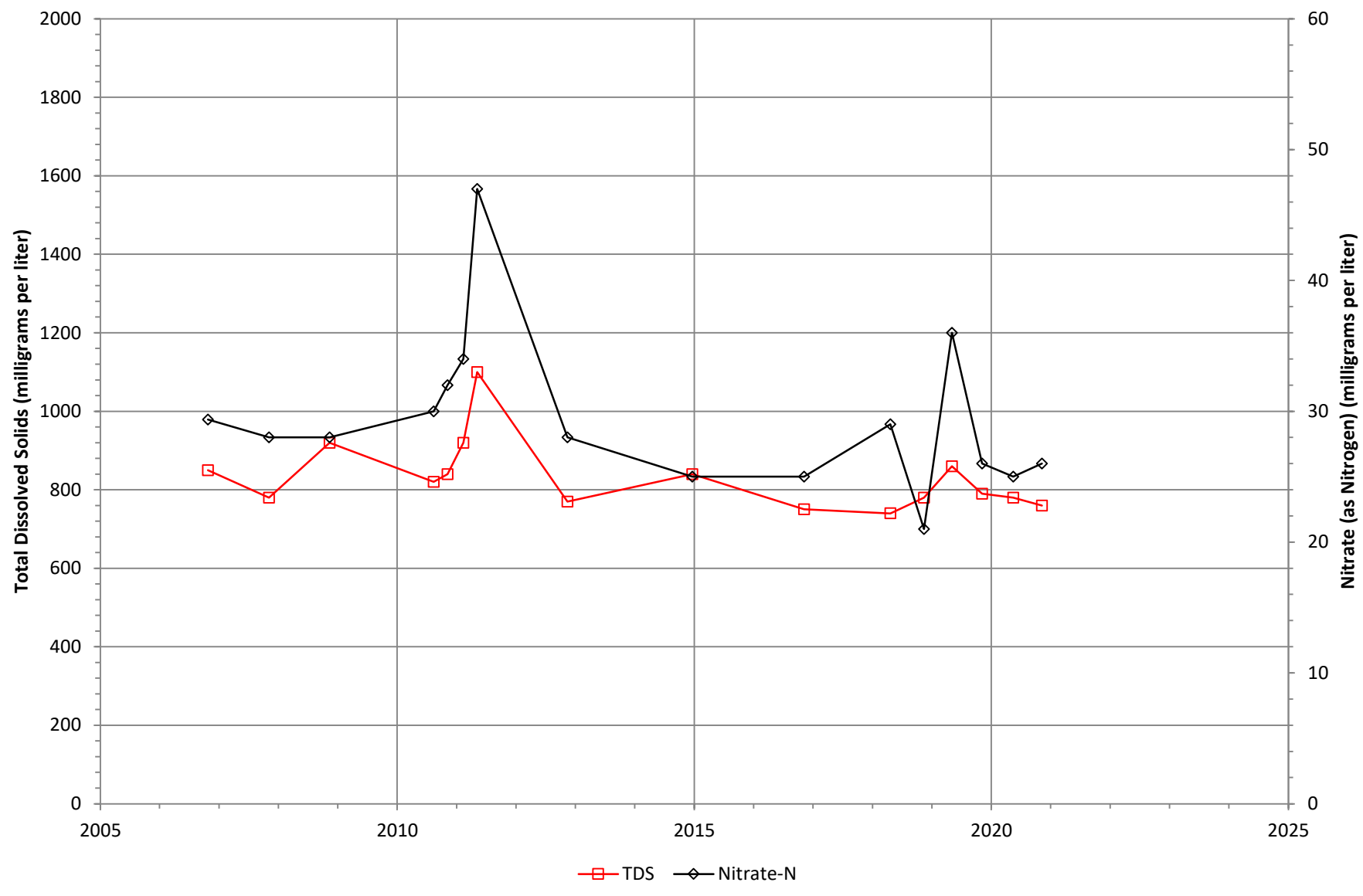
Total Dissolved Solids and Nitrate (as Nitrogen) at Well Fishermen's Retreat 1

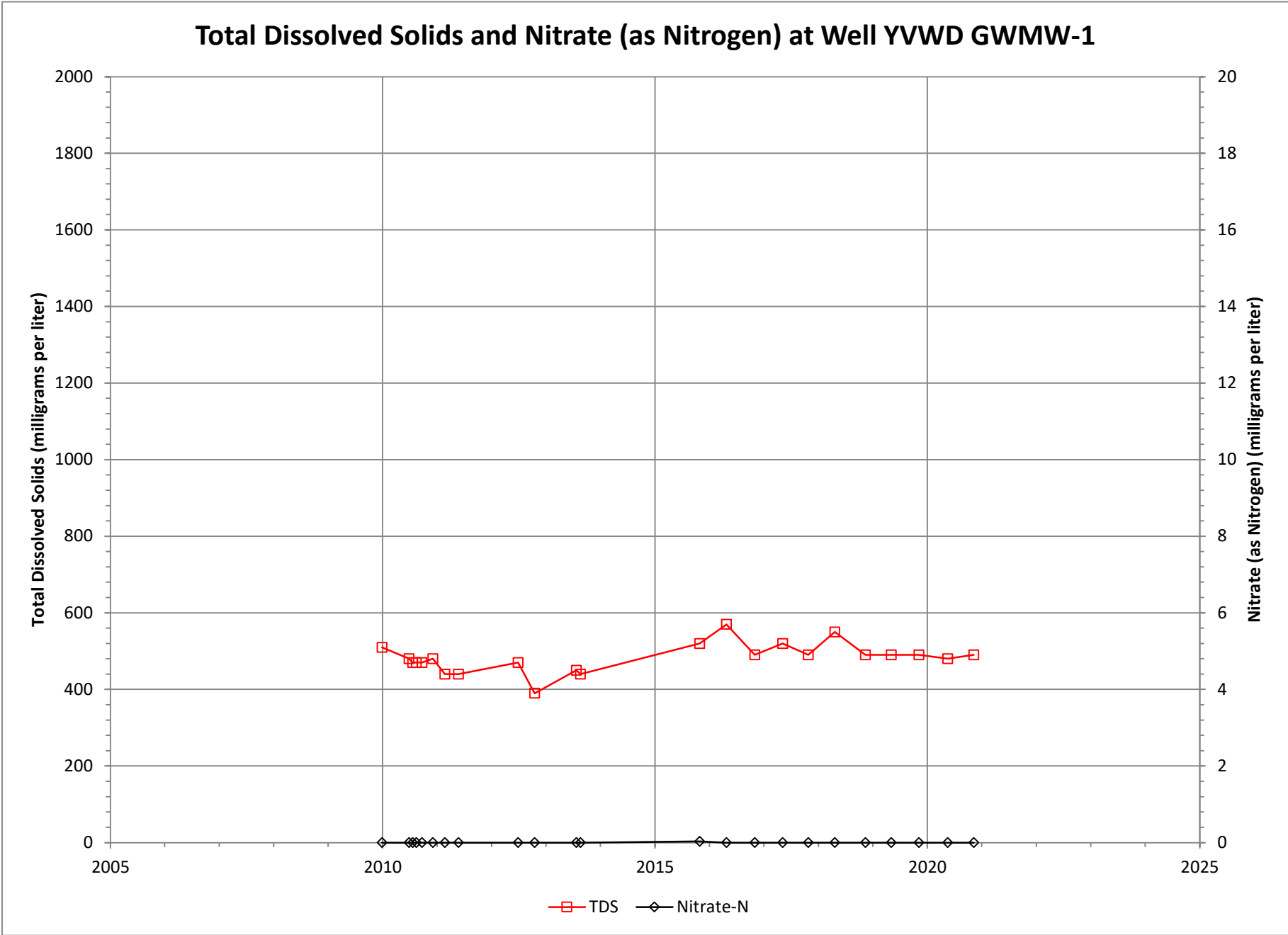


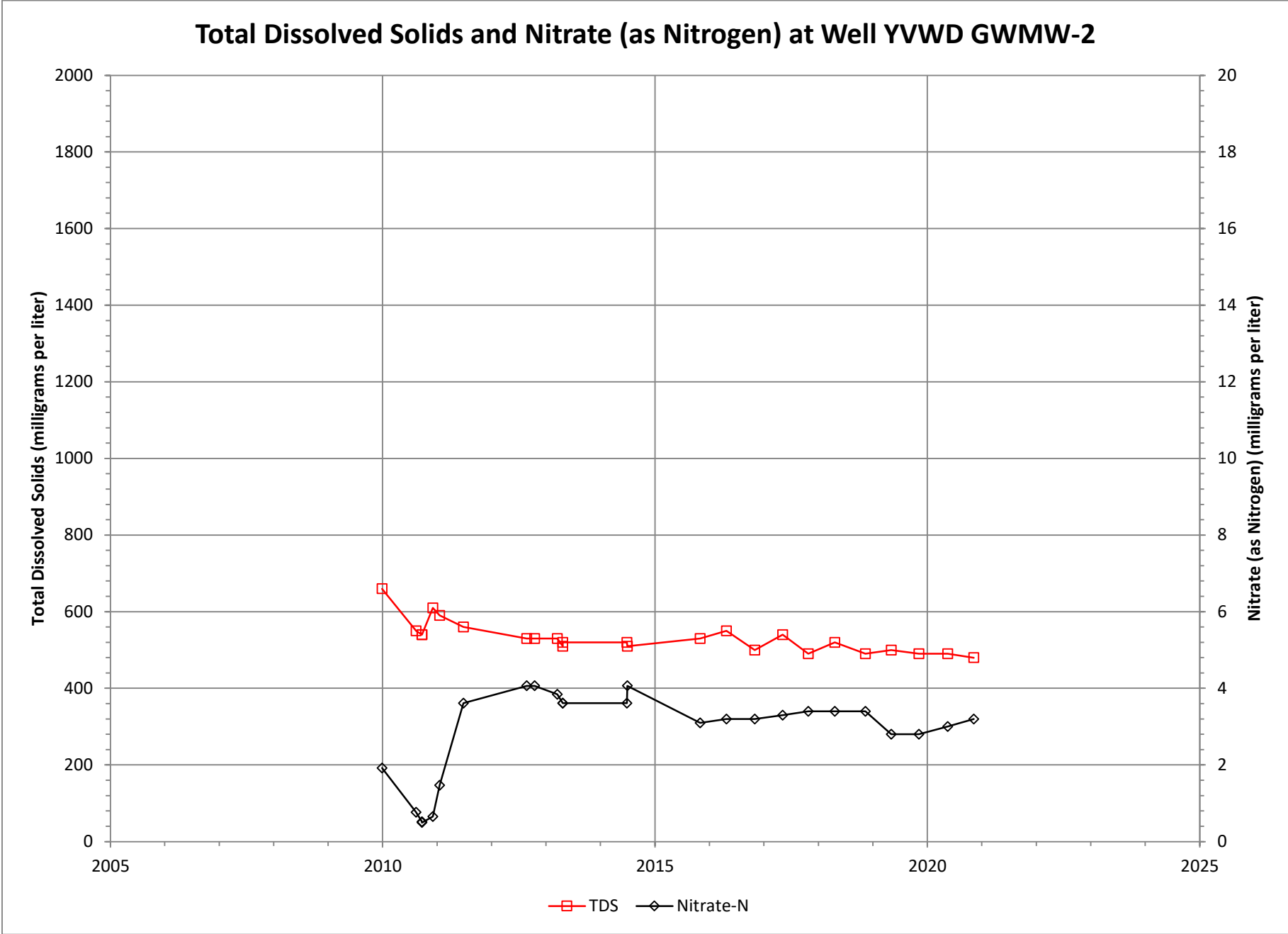
Total Dissolved Solids and Nitrate (as Nitrogen) at Well Fishermen's Retreat 2



Total Dissolved Solids and Nitrate (as Nitrogen) at Well 1 (Schwenckert, Henry W. and Jewel)







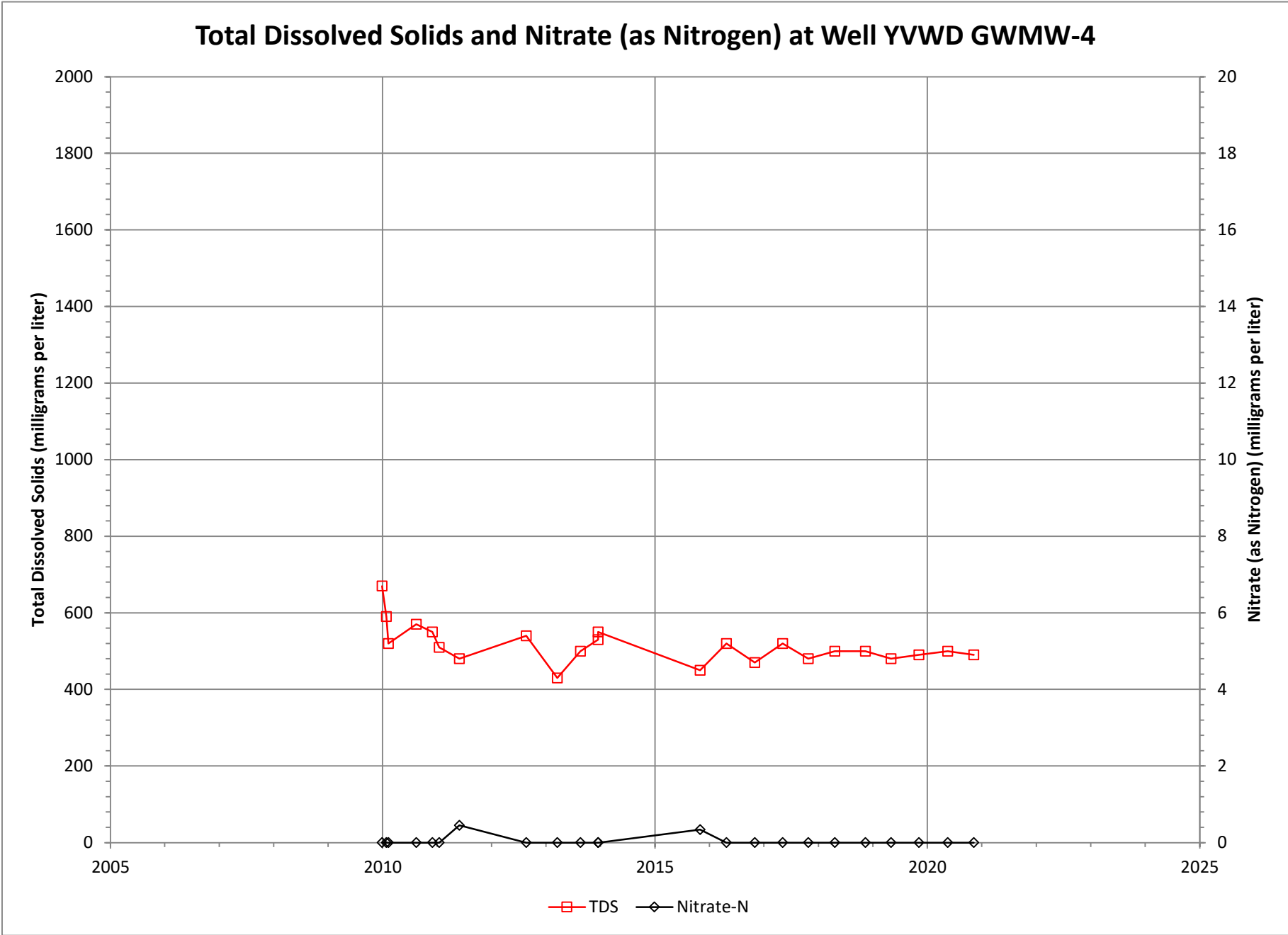


Figure G-24 665

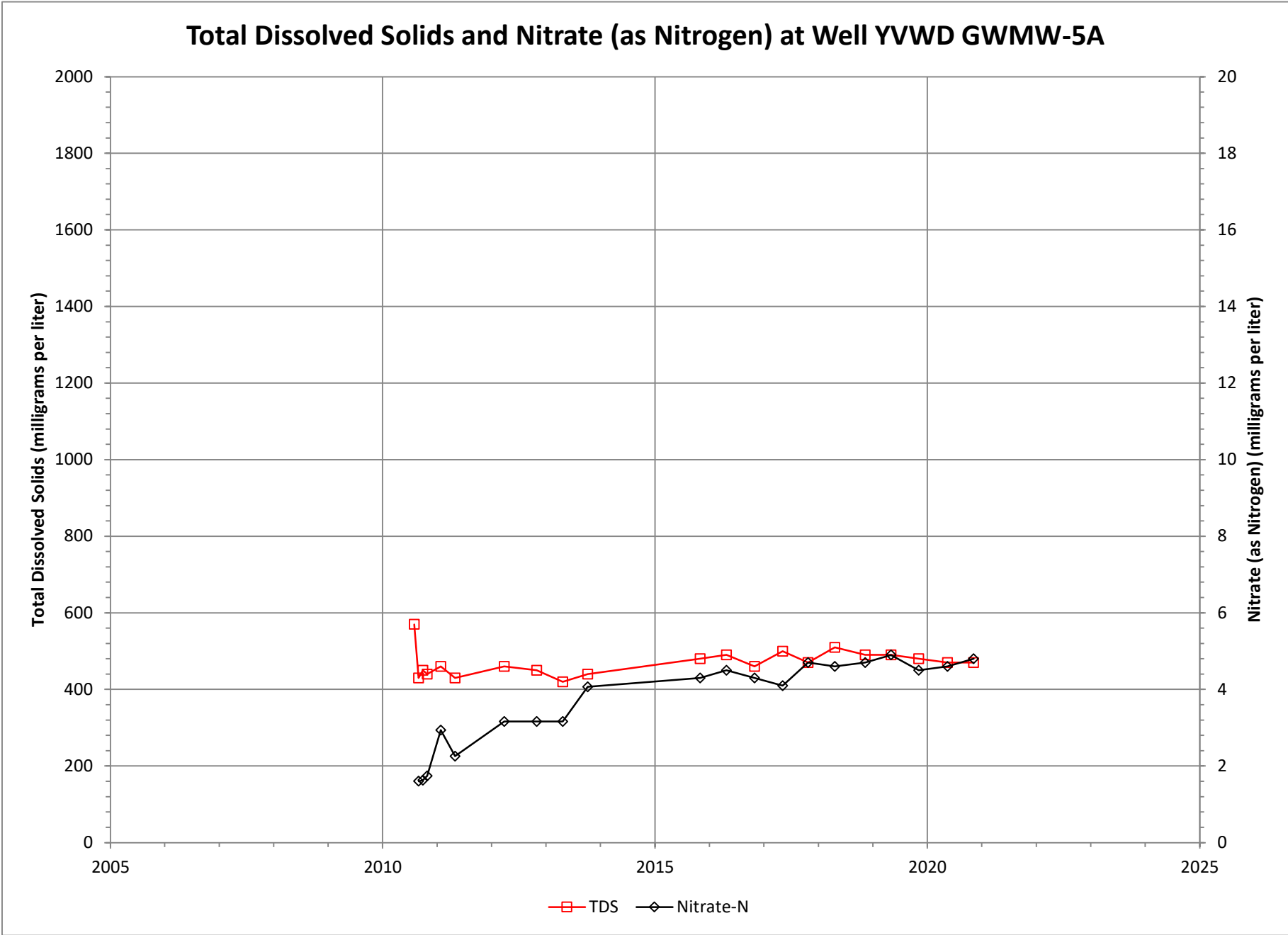


Figure G-25 666

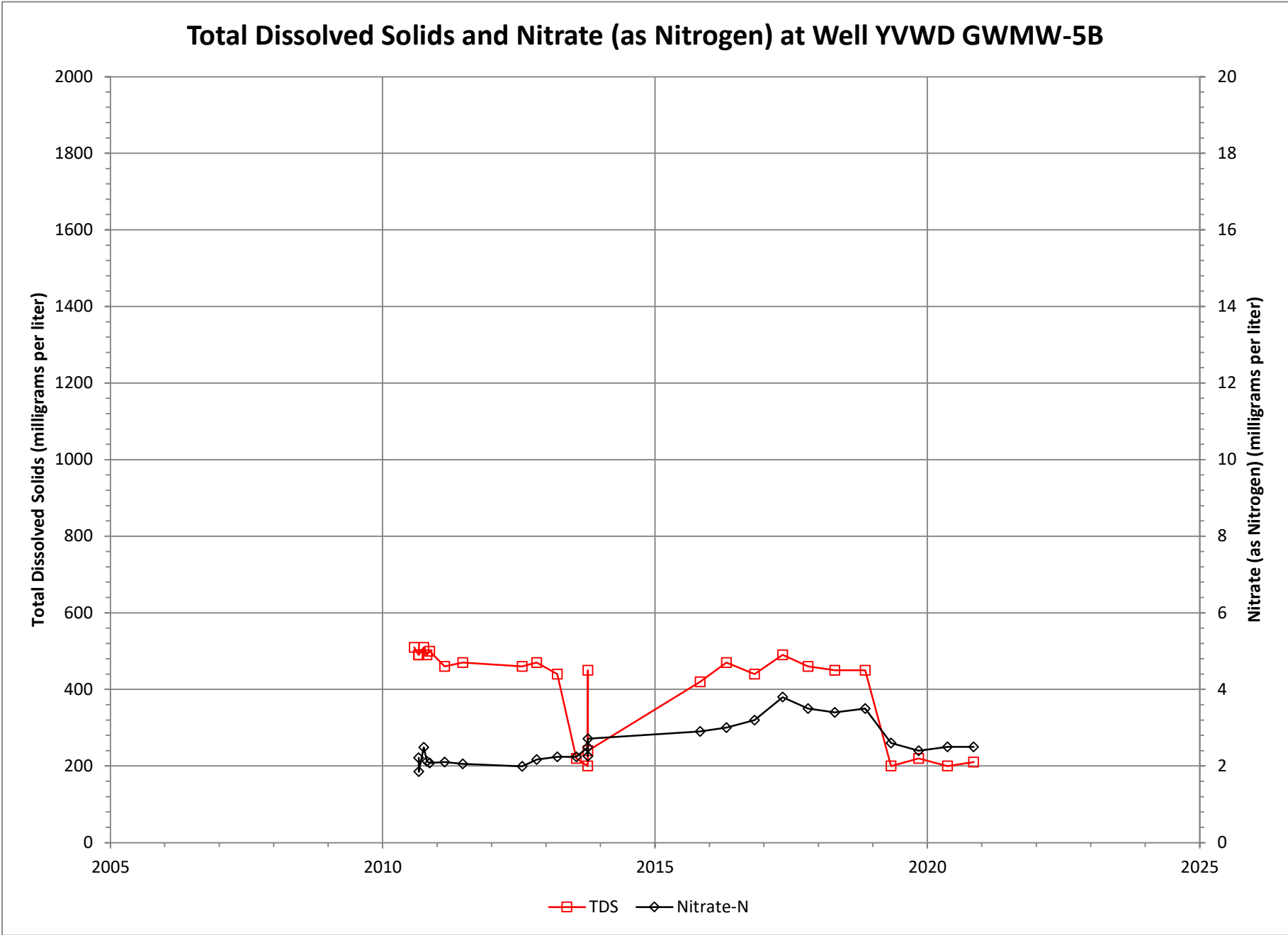


Figure G-26 667

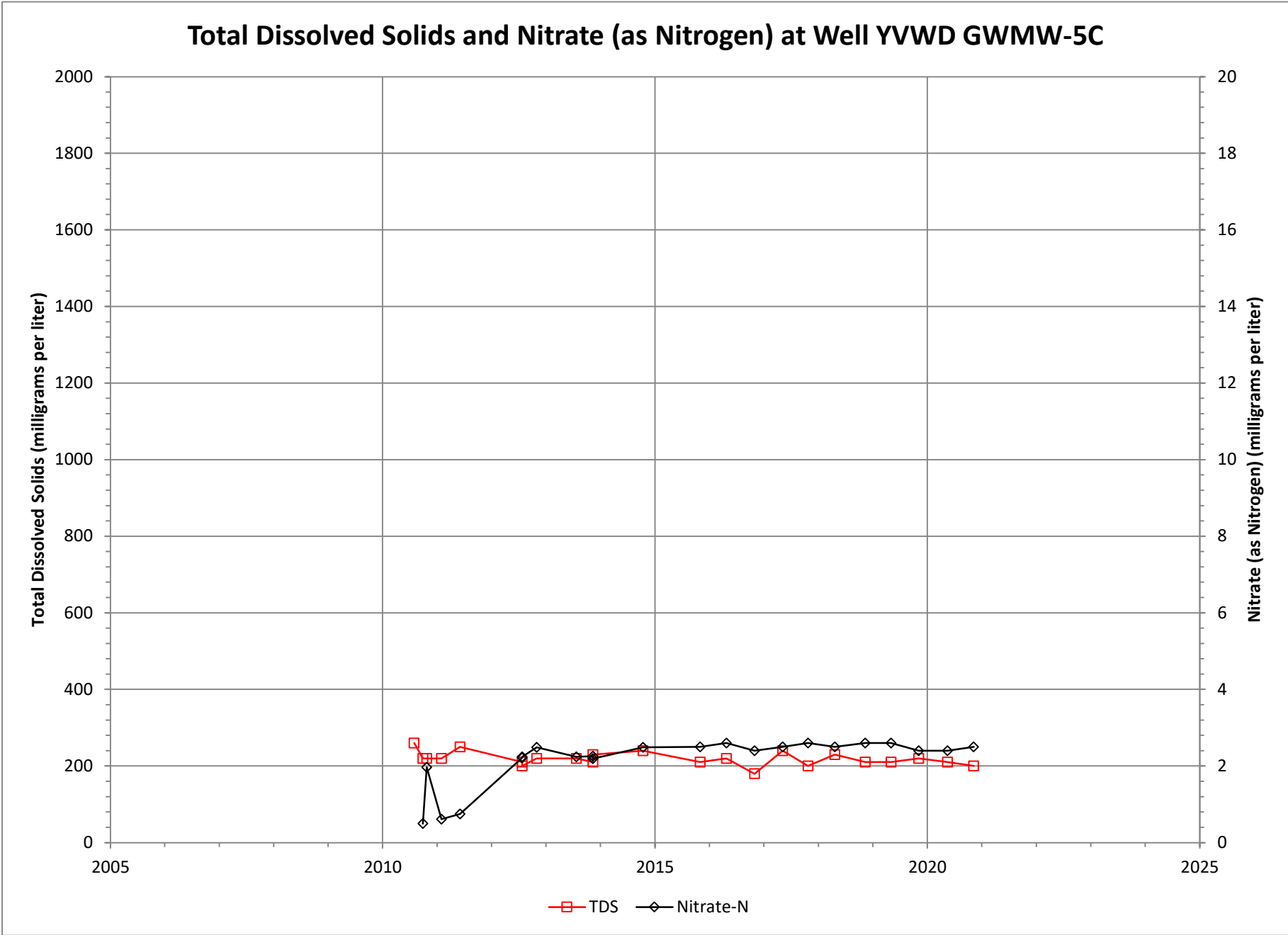


Figure G-2 668

APPENDIX H

**Historical Total Dissolved Solids Concentration of Recycled
Water Discharged at WRWRF Outfall to San Timoteo Creek**

Appendix H. Historical TDS Concentrations of Recycled Water Discharged at WRWRF Outfall

Item 5.

Sample Date	Total Dissolved Solids (mg/L)	Total Monthly Discharge Volume (MG)	TDS * Volume	Volume-Weighted Annual Average (mg/L)	10-Year Running Volume-Weighted Average (mg/L)
1/31/2002	488	94.298	46,017.42		
2/28/2002	488	82.246	40,136.05		
3/31/2002	502	91.509	45,937.52		
4/30/2002	496	87.597	43,448.11		
5/31/2002	492	91.173	44,857.12		
6/30/2002	478	86.12	41,165.36		
7/31/2002	484	87.415	42,308.86		
8/31/2002	481	83.938	40,374.18		
9/30/2002	470	84.981	39,941.07		
10/31/2002	483	89.62	43,286.46		
11/30/2002	484	89.27	43,206.68		
12/31/2002	470	95.19	44,739.30	485	
1/31/2003	450	77.316	34,792.20		
2/28/2003	444	86.34	38,334.96		
3/31/2003	502	94.064	47,220.13		
4/30/2003	480	91.202	43,776.96		
5/31/2003	470	93.94	44,151.80		
6/30/2003	485	95.648	46,389.28		
7/31/2003	454	96.67	43,888.18		
8/31/2003	410	107.226	43,962.66		
9/30/2003	447	102.577	45,851.92		
10/31/2003	420	108.196	45,442.32		
11/30/2003	455	109.445	49,797.47		
12/31/2003	470	110.509	51,939.23	457	
1/31/2004	469	109.17	51,200.73		
2/29/2004	475	103.461	49,143.97		
3/31/2004	459	105.557	48,450.66		
4/30/2004	472	103.947	49,062.98		
5/31/2004	479	106.359	50,945.96		
6/30/2004	493	102.165	50,367.34		
7/31/2004	473	102.995	48,716.64		
8/31/2004	510	105.544	53,827.44		
9/30/2004	479	102.854	49,267.07		
10/31/2004	460	111.056	51,085.76		
11/30/2004	502	106.208	53,316.42		
12/31/2004	455	108.474	49,355.67	477	
1/31/2005	472	111.692	52,718.62		
2/28/2005	505	100.474	50,739.37		
3/31/2005	515	106.212	54,699.18		
4/30/2005	460	102.456	47,129.76		
5/31/2005	495	106.689	52,811.06		
6/30/2005	507	102.302	51,867.11		
7/31/2005	457	105.988	48,436.52		
8/31/2005	476	106.229	50,565.00		
9/30/2005	537	102.802	55,204.67		
10/31/2005	466	109.227	50,899.78		
11/30/2005	465	105.035	48,841.27		

Appendix H. Historical TDS Concentrations of Recycled Water Discharged at WRWRF Outfall

Item 5.

Sample Date	Total Dissolved Solids (mg/L)	Total Monthly Discharge Volume (MG)	TDS * Volume	Volume-Weighted Annual Average (mg/L)	10-Year Running Volume-Weighted Average (mg/L)
12/31/2005	499	110.426	55,102.57	488	
1/8/2006	460	111.11	51,109.22		
2/5/2006	476	99.54	47,380.56		
3/12/2006	469	108.37	50,823.65		
4/4/2006	455	106.12	48,283.24		
5/5/2006	464	108.19	50,198.30		
6/4/2006	473	104.04	49,208.55		
7/2/2006	504	107.09	53,973.86		
8/13/2006	572	108.42	62,014.52		
9/10/2006	577	108.06	62,350.04		
10/10/2006	409	111.99	45,803.09		
11/11/2006	472	108.67	51,294.60		
12/3/2006	487	114.94	55,973.83	485	
1/31/2007	504	113.98	57,447.94		
2/28/2007	515	102.51	52,794.71		
3/31/2007	531	110.39	58,619.74		
4/30/2007	513	108.46	55,639.98		
5/31/2007	523	109.91	57,481.36		
6/30/2007	493	108.78	53,629.03		
7/31/2007	465	110.34	51,307.17		
8/31/2007	505	111.91	56,513.54		
9/30/2007	423	109.64	46,377.72		
10/31/2007	467	113.15	52,841.05		
11/30/2007	460	111.22	51,161.66		
12/31/2007	463	116.86	54,103.86	488	
1/3/2008	426	116.08	49,452.21		
2/14/2008	504	103.79	52,307.64		
3/5/2008	481	110.60	53,200.04		
4/3/2008	482	105.83	51,010.06		
5/8/2008	481	108.84	52,350.12		
6/5/2008	483	103.21	49,848.50		
7/2/2008	510	108.07	55,116.72		
8/14/2008	510	108.71	55,442.10		
9/11/2008	478	115.11	55,023.06		
10/9/2008	481	110.81	53,297.53		
11/7/2008	480	107.55	51,625.92		
12/4/2008	480	112.68	54,084.86	483	
1/5/2009	440	108.89	47,911.31		
2/2/2009	450	94.95	42,728.65		
3/2/2009	530	110.30	58,457.19		
4/6/2009	450	106.00	47,699.71		
5/4/2009	450	112.73	50,727.34		
6/8/2009	450	103.03	46,365.75		
7/6/2009	450	112.27	50,522.82		
8/3/2009	450	113.05	50,872.50		
9/8/2009	430	108.84	46,801.20		
10/5/2009	400	111.32	44,528.00		

Appendix H. Historical TDS Concentrations of Recycled Water Discharged at WRWRF Outfall

Item 5.

Sample Date	Total Dissolved Solids (mg/L)	Total Monthly Discharge Volume (MG)	TDS * Volume	Volume-Weighted Annual Average (mg/L)	10-Year Running Volume-Weighted Average (mg/L)
11/2/2009	450	109.69	49,360.50		
12/7/2009	470	115.46	54,263.85	452	
1/4/2010	440	123.80	54,472.00		
2/8/2010	430	104.11	44,767.30		
3/8/2010	450	112.69	50,710.50		
4/5/2010	450	110.86	49,887.00		
5/3/2010	440	110.95	48,818.00		
6/7/2010	440	107.21	47,172.40		
7/6/2010	450	110.87	49,891.50		
8/2/2010	430	110.27	47,413.95		
9/7/2010	410	110.55	45,324.49		
10/4/2010	418	113.97	47,639.46		
11/8/2010	450	109.78	49,401.00		
12/6/2010	420	120.22	50,492.40	436	
1/10/2011	450	116.07	52,231.50		
2/7/2011	440	106.10	46,684.00		
3/7/2011	450	113.06	50,874.75		
4/4/2011	390	116.11	45,282.90		
5/2/2011	410	118.55	48,605.50		
6/6/2011	420	108.18	45,435.60		
7/5/2011	440	115.64	50,881.60		
8/8/2011	380	116.84	44,399.20		
9/6/2011	400	112.65	45,060.00		
10/3/2011	410	117.16	48,035.60		
11/7/2011	380	123.51	46,933.80		
12/5/2011	380	111.75	42,465.00	412	465
1/9/2012	450	110.55	49,747.50		
2/6/2012	430	101.05	43,451.50		
3/5/2012	420	111.60	46,872.00		
4/2/2012	450	107.87	48,541.50		
5/7/2012	460	112.20	51,612.00		
6/4/2012	450	109.74	49,383.00		
7/2/2012	430	115.88	49,828.40		
8/6/2012	380	117.71	44,729.80		
9/3/2012	470	115.34	54,209.80		
10/8/2012	440	118.36	52,078.40		
11/5/2012	440	113.02	49,728.80		
12/3/2012	410	113.35	46,473.50	436	461
1/7/2013	390	117.80	45,942.00		
2/28/2013	440	102.71	45,192.40		
3/31/2013	510	113.30	57,783.00		
4/8/2013	490	116.13	56,903.70		
5/6/2013	530	113.41	60,107.30		
6/30/2013	470	111.05	52,193.50		
7/31/2013	450	114.78	51,651.00		
8/31/2013	430	117.50	50,525.00		
9/30/2013	440	114.27	50,278.80		

Appendix H. Historical TDS Concentrations of Recycled Water Discharged at WRWRF Outfall

Item 5.

Sample Date	Total Dissolved Solids (mg/L)	Total Monthly Discharge Volume (MG)	TDS * Volume	Volume-Weighted Annual Average (mg/L)	10-Year Running Volume-Weighted Average (mg/L)
10/31/2013	440	116.76	51,374.40		
11/4/2013	410	113.91	46,703.10		
12/2/2013	510	117.09	59,715.90	459	461
1/6/2014	460	115.79	53,263.40		
2/3/2014	460	101.31	46,602.60		
3/3/2014	350	109.04	38,164.00		
4/7/2014	520	110.86	57,647.20		
5/5/2014	440	115.75	50,930.00		
6/2/2014	490	110.82	54,301.80		
7/7/2014	470	112.97	53,095.90		
8/4/2014	420	112.50	47,250.00		
9/8/2014	400	110.09	44,036.00		
10/6/2014	460	113.62	52,265.20		
11/3/2014	470	107.48	50,514.66		
12/8/2014	460	101.25	46,575.50	450	458
1/31/2015	480	86.29	41,420.26		
2/28/2015	440	62.91	27,681.87		
3/31/2015	530	61.16	32,414.00		
4/30/2015	450	49.98	22,490.90		
5/31/2015	460	71.07	32,692.48		
6/30/2015	410	66.67	27,335.37		
7/31/2015	430	70.37	30,259.53		
8/31/2015	450	72.81	32,764.05		
9/30/2015	470	75.76	35,607.66		
10/31/2015	460	97.27	44,742.03		
11/30/2015	480	103.01	49,445.84		
12/31/2015	430	109.55	47,108.18	457	455
1/31/2016	640	80.70	51,649.92		
2/29/2016	450	59.48	26,766.90		
3/31/2016	450	89.15	40,116.60		
4/30/2016	630	103.82	65,408.97		
5/31/2016	450	97.14	43,712.10		
6/30/2016	430	77.46	33,309.09		
7/31/2016	430	69.00	29,669.57		
8/31/2016	290	66.07	19,161.46		
9/30/2016	280	73.16	20,484.52		
10/31/2016	300	86.50	25,949.41		
11/30/2016	340	86.39	29,373.18		
12/31/2016	360	109.85	39,544.87	426	450
1/31/2017	400	115.24	46,096.00		
2/28/2017	350	102.90	36,015.00		
3/31/2017	260	98.59	25,633.40		
4/30/2017	290	78.55	22,779.50		
5/31/2017	270	92.78	25,050.60		
6/30/2017	260	71.16	18,501.60		
7/31/2017	230	81.18	18,671.40		
8/31/2017	210	98.03	20,586.30		

Appendix H. Historical TDS Concentrations of Recycled Water Discharged at WRWRF Outfall

Item 5.

Sample Date	Total Dissolved Solids (mg/L)	Total Monthly Discharge Volume (MG)	TDS * Volume	Volume-Weighted Annual Average (mg/L)	10-Year Running Volume-Weighted Average (mg/L)
9/30/2017	220	101.29	22,283.80		
10/31/2017	240	89.79	21,550.56		
11/30/2017	250	102.73	25,681.61		
12/31/2017	260	117.02	30,426.20	273	430
1/31/2018	280	123.66	34,624.89		
2/28/2018	310	106.15	32,906.40		
3/31/2018	380	90.58	34,421.35		
4/30/2018	290	57.22	16,593.47		
5/31/2018	430	102.25	43,966.36		
6/30/2018	290	96.41	27,958.77		
7/31/2018	260	96.65	25,129.35		
8/31/2018	260	86.63	22,524.41		
9/30/2018	320	91.68	29,336.47		
10/31/2018	260	100.70	26,181.30		
11/30/2018	250	90.77	22,693.37		
12/31/2018	280	125.75	35,210.86	301	412
1/31/2019	290	131.33	38,086.57		
2/28/2019	280	89.22	24,981.88		
3/31/2019	480	103.61	49,732.32		
4/30/2019	280	82.55	23,114.28		
5/31/2019	260	98.54	25,619.36		
6/30/2019	260	68.94	17,923.58		
7/31/2019	250	70.00	17,500.12		
8/31/2019	240	76.72	18,411.62		
9/30/2019	240	73.08	17,538.22		
10/31/2019	235	59.67	14,022.28		
11/30/2019	250	98.74	24,683.75		
12/31/2019	260	103.82	26,993.46	283	396
1/31/2020	280	75.00	20,998.60		
2/29/2020	300	75.60	22,679.10		
3/31/2020	310	115.99	35,956.90		
4/30/2020	290	103.56	30,033.27		
5/31/2020	270	75.85	20,479.23		
6/30/2020	250	63.81	15,951.25		
7/31/2020	250	60.24	15,060.93		
8/31/2020	270	62.51	16,878.51		
9/30/2020	280	81.49	22,818.32		
10/31/2020	290	81.24	23,559.31		
11/30/2020	290	81.15	23,534.08		
12/31/2020	280	87.07	24,378.48	283	382

APPENDIX I

**Historical Nitrate (as Nitrogen) Concentration of Recycled
Water Discharged at WRWRF Outfall to San Timoteo Creek**

Appendix I. Historical Concentrations of Nitrate (as Nitrogen) at WRWRF Outfall

Item 5.

Sample Date	Nitrate-Nitrogen (mg/L)	Nitrite-Nitrogen (mg/L)	Ammonia-Nitrogen (mg/L)	Total Inorganic Nitrogen (mg/L)	Total Monthly Discharge Volume (MG)	Nitrate-N * Volume	Volume-Weighted Annual Average Nitrate-N (mg/L)	10-Year Running Volume-Weighted Average Nitrate-N (mg/L)	Volume-Weighted Annual Average TIN (mg/L)	10-Year Running Volume-Weighted Average TIN (mg/L)
1/31/2002	8.6		2.8	11.4	94.298	811.0				
2/28/2002	3.7		2.2	5.9	82.246	304.3				
3/31/2002	7.1		2.3	9.4	91.509	649.7				
4/30/2002	5.8		2.4	8.2	87.597	508.1				
5/31/2002	6.9		1.9	8.8	91.173	629.1				
6/30/2002	5.6		2.4	8.0	86.12	482.3				
7/31/2002	5.3		1.7	7.0	87.415	463.3				
8/31/2002	4.1		2.0	6.1	83.938	344.1				
9/30/2002	4.0		1.8	5.8	84.981	339.9				
10/31/2002	2.8		1.0	3.8	89.62	250.9				
11/30/2002	3.2		2.0	5.2	89.27	285.7				
12/31/2002	3.1		2.5	5.6	95.19	295.1	5.0		7.1	
1/31/2003	0.8		2.8	3.6	77.316	61.9				
2/28/2003	0.4		2.4	2.8	86.34	34.5				
3/31/2003	5.6		2.9	8.5	94.064	526.8				
4/30/2003	5.7		2.9	8.6	91.202	519.9				
5/31/2003	5.3		1.3	6.6	93.94	497.9				
6/30/2003	1.9		2.4	4.3	95.648	181.7				
7/31/2003	1.5		1.9	3.4	96.67	145.0				
8/31/2003	2.1		2.8	4.9	107.226	225.2				
9/30/2003	4.2		0.9	5.1	102.577	430.8				
10/31/2003	4.1		0.2	4.3	108.196	443.6				
11/30/2003	3.6		2.7	6.3	109.445	394.0				
12/31/2003	2.7		3.8	6.5	110.509	298.4	3.2		5.4	
1/31/2004	0.0		4.5	4.5	109.17	0.0				
2/29/2004	11.1		3.6	14.7	103.461	1148.4				
3/31/2004	6.1		4.4	10.5	105.557	643.9				
4/30/2004	7.5		3.9	11.4	103.947	779.6				
5/31/2004	10.3		3.8	14.1	106.359	1095.5				
6/30/2004	10.1		2.1	12.2	102.165	1031.9				
7/31/2004	5.6		2.4	8.0	102.995	576.8				
8/31/2004	3.8		2.5	6.3	105.544	401.1				
9/30/2004	7.9		0.1	8.0	102.854	812.5				
10/31/2004	9.6		0.0	9.6	111.056	1066.1				
11/30/2004	6.9		0.0	6.9	106.208	732.8				

Appendix I. Historical Concentrations of Nitrate (as Nitrogen) at WRWRF Outfall

Item 5.

Sample Date	Nitrate-Nitrogen (mg/L)	Nitrite-Nitrogen (mg/L)	Ammonia-Nitrogen (mg/L)	Total Inorganic Nitrogen (mg/L)	Total Monthly Discharge Volume (MG)	Nitrate-N * Volume	Volume-Weighted Annual Average Nitrate-N (mg/L)	10-Year Running Volume-Weighted Average Nitrate-N (mg/L)	Volume-Weighted Annual Average TIN (mg/L)	10-Year Running Volume-Weighted Average TIN (mg/L)
12/31/2004	11.8		0.0	11.8	108.474	1280.0	7.5		9.8	
1/31/2005	14.6		0.0	14.6	111.69	1630.7				
2/28/2005	14.1		0.0	14.1	100.47	1416.7				
3/31/2005	13.3		0.0	13.3	106.21	1412.6				
4/30/2005	8.9		0.0	8.9	102.46	911.9				
5/31/2005	11.4		0.0	11.4	106.69	1216.3				
6/30/2005	13.6		0.1	13.7	102.30	1391.3				
7/31/2005	8.5		0.0	8.5	105.99	900.9				
8/31/2005	9.4		0.1	9.5	106.23	998.6				
9/30/2005	10.3		0.1	10.4	102.80	1058.9				
10/31/2005	8.6		0.3	8.9	109.23	939.4				
11/30/2005	12.0		0.4	12.4	105.04	1260.4				
12/31/2005	21.4		0.2	21.6	110.43	2363.1	12.2		12.3	
1/31/2006	16.9		<0.2	16.9	111.11	1877.7				
2/28/2006	16.3		<0.2	16.3	99.54	1622.5				
3/31/2006	18.9		0.2	19.1	108.37	2048.1				
4/30/2006	15.9		0.2	16.1	106.12	1687.3				
5/31/2006	17.6		<0.2	17.6	108.19	1904.1				
6/30/2006	16.4		0.4	16.8	104.04	1706.2				
7/31/2006	15.7		<0.2	15.7	107.09	1681.3				
8/31/2006	17		<0.2	17.0	108.42	1843.1				
9/30/2006	19.4		<0.2	19.4	108.06	2096.3				
10/31/2006	17.6		<0.2	17.6	111.99	1971.0				
11/30/2006	16.0		<0.2	16.0	108.67	1738.8				
12/31/2006	16.1		<0.2	16.1	114.94	1850.5	17.0		17.1	
1/31/2007	18.1		<0.2	18.1	113.98	2063.1				
2/28/2007	16.7		<0.2	16.7	102.51	1712.0				
3/31/2007	17.3		0.7	18.0	110.39	1909.8				
4/30/2007	17.7		<0.2	17.7	108.46	1919.7				
5/31/2007	14.7		<0.2	14.7	109.91	1615.6				
6/30/2007	13.4		<0.2	13.4	108.78	1457.7				
7/31/2007	10.5		<0.2	10.5	110.34	1158.5				
8/31/2007	13		0.3	13.3	111.91	1454.8				

Appendix I. Historical Concentrations of Nitrate (as Nitrogen) at WRWRF Outfall

Item 5.

Sample Date	Nitrate-Nitrogen (mg/L)	Nitrite-Nitrogen (mg/L)	Ammonia-Nitrogen (mg/L)	Total Inorganic Nitrogen (mg/L)	Total Monthly Discharge Volume (MG)	Nitrate-N * Volume	Volume-Weighted Annual Average Nitrate-N (mg/L)	10-Year Running Volume-Weighted Average Nitrate-N (mg/L)	Volume-Weighted Annual Average TIN (mg/L)	10-Year Running Volume-Weighted Average TIN (mg/L)
9/30/2007	9.9		<0.2	9.9	109.64	1085.4				
10/31/2007	10.0		<0.2	10.0	113.15	1131.5				
11/30/2007	8.1		<0.2	8.1	111.22	900.9				
12/31/2007	11		<0.2	11.0	116.86	1285.4	13.3		13.4	
1/31/2008	14.4		<0.2	14.4	116.08	1671.6				
2/29/2008	24		0.3	24.3	103.79	2490.8				
3/31/2008	27.7		<0.2	27.7	110.60	3063.7				
4/30/2008	26.7		0.2	26.9	105.83	2825.7				
5/31/2008	18.3		0.2	18.5	108.84	1991.7				
6/30/2008	19.1		<0.2	19.1	103.21	1971.2				
7/31/2008	25.9		<0.2	25.9	108.07	2799.3				
8/31/2008	9		<0.2	9.0	108.71	978.4				
9/30/2008	7.72		<0.2	7.7	115.11	888.7				
10/31/2008	4.5		<0.2	4.5	110.81	498.6				
11/30/2008	12.8		<0.2	12.8	107.55	1376.7				
12/31/2008	7.4	0.5	<0.2	7.9	112.68	833.8	16.3		16.4	
1/31/2009	4.1	0.7	<0.2	4.8	108.89	446.4				
2/28/2009	1.4	0.0	2	3.4	94.95	132.9				
3/31/2009	4.1	0.8	9.3	14.2	110.30	452.2				
4/30/2009	2.6	0.7	0.6	3.9	106.00	275.6				
5/31/2009	2.2	0.9	0.5	3.6	112.73	248.0				
6/30/2009	2.5	0.4	1.6	4.5	103.03	257.6				
7/31/2009	3.2	0.2	<0.2	3.4	112.27	359.3				
8/31/2009	3.7	0.1	0.4	4.2	113.05	418.3				
9/30/2009	3.6	0.2	0	3.8	108.84	391.8				
10/31/2009	4.2	0.2	<0.2	4.4	111.32	467.5				
11/30/2009	3.6	0.4	<0.2	4.0	109.69	394.9				
12/31/2009	1.9	0.6	4.2	6.7	115.46	219.4	3.1		5.1	
1/31/2010	3.8	0.5	2.5	6.8	123.80	470.4				
2/28/2010	2.2	0.5	4.6	7.3	104.11	229.0				
3/31/2010	3.4	0.2	1	4.6	112.69	383.1				
4/30/2010	3.2	0.5	1.9	5.6	110.86	354.8				
5/31/2010	1	0.6	11.1	12.7	110.95	111.0				

Appendix I. Historical Concentrations of Nitrate (as Nitrogen) at WRWRF Outfall

Item 5.

Sample Date	Nitrate-Nitrogen (mg/L)	Nitrite-Nitrogen (mg/L)	Ammonia-Nitrogen (mg/L)	Total Inorganic Nitrogen (mg/L)	Total Monthly Discharge Volume (MG)	Nitrate-N * Volume	Volume-Weighted Annual Average Nitrate-N (mg/L)	10-Year Running Volume-Weighted Average Nitrate-N (mg/L)	Volume-Weighted Annual Average TIN (mg/L)	10-Year Running Volume-Weighted Average TIN (mg/L)
6/30/2010	3.9	<0.23	<0.2	3.9	107.21	418.1				
7/31/2010	5.8	0.2	0.17	6.1	110.87	643.0				
8/31/2010	3.5	<0.23	<.2	3.5	110.27	385.9				
9/30/2010	3.6	<0.23	<0.2	3.6	110.55	398.0				
10/31/2010	2.85	<0.15	<0.2	2.9	113.97	324.8				
11/30/2010	2	<0.23	0.3	2.3	109.78	219.6				
12/31/2010	1.9	0.4	0.2	2.5	120.22	228.4	3.1		5.1	
1/31/2011	2.1	0.3	0.7	3.1	116.07	243.7				
2/28/2011	3.3	0.2	0.2	3.7	106.10	350.1				
3/31/2011	2.22	0.4	1.2	3.9	113.06	251.0				
4/30/2011	1.42	0.5	3.1	5.0	116.11	164.9				
5/31/2011	1.3	<0.23	3.2	4.5	118.55	154.1				
6/30/2011	<0.7	0.3	11.3	11.6	108.18	37.9				
7/31/2011	3.3	<.23	0.7	4.0	115.64	381.6				
8/31/2011	3.9	<0.15	<0.2	3.9	116.84	455.7				
9/30/2011	2	<0.15	0.24	2.2	112.65	225.3				
10/31/2011	3.3	<0.15	<0.2	3.3	117.16	386.6				
11/30/2011	2.3	0.3	0.3	2.9	123.51	284.1				
12/31/2011	2.46	0.3	0.6	3.4	111.75	274.9	2.3	8.4	4.2	9.6
1/31/2012	2.3	0.2	0.6	3.1	110.55	254.3				
2/29/2012	2.91	0.3	<0.2	3.2	101.05	294.1				
3/31/2012	3.55	<0.15	<0.2	3.6	111.60	396.2				
4/30/2012	2.3	0.2	3	5.5	107.87	248.1				
5/31/2012	2.5	<0.15	0.2	2.7	112.20	280.5				
6/30/2012	2.7	<0.15	0.1	2.8	109.74	296.3				
7/31/2012	3.9	<0.15	0.2	4.1	115.88	451.9				
8/31/2012	2.2	<0.11	<0.2	2.2	117.71	259.0				
9/30/2012	1.9	<0.11	<0.2	1.9	115.34	219.1				
10/31/2012	4.2	<0.15	<0.2	4.2	118.36	497.1				
11/30/2012	2.5	<0.15	0.2	2.7	113.02	282.6				
12/31/2012	2.36	0.3	0.7	3.4	113.35	267.5	2.8	8.1	3.3	9.2
1/31/2013	1.7	<0.40	0.5	2.2	117.80	200.3				
2/28/2013	2.3	<0.4	4	6.3	102.71	236.2				

Appendix I. Historical Concentrations of Nitrate (as Nitrogen) at WRWRF Outfall

Item 5.

Sample Date	Nitrate-Nitrogen (mg/L)	Nitrite-Nitrogen (mg/L)	Ammonia-Nitrogen (mg/L)	Total Inorganic Nitrogen (mg/L)	Total Monthly Discharge Volume (MG)	Nitrate-N * Volume	Volume-Weighted Annual Average Nitrate-N (mg/L)	10-Year Running Volume-Weighted Average Nitrate-N (mg/L)	Volume-Weighted Annual Average TIN (mg/L)	10-Year Running Volume-Weighted Average TIN (mg/L)
3/31/2013	3.3	<0.4	0.9	4.2	113.30	373.9				
4/30/2013	3.2	<0.4	<0.2	3.2	116.13	371.6				
5/31/2013	2.6	0.4	1.8	4.8	113.41	294.9				
6/30/2013	2.8	<0.4	<0.15	2.8	111.05	310.9				
7/31/2013	3.8	<0.4	<0.15	3.8	114.78	436.2				
8/31/2013	3.8	<0.4	<0.5	3.8	117.50	446.5				
9/30/2013	4.1	<0.4	<0.15	4.1	114.27	468.5				
10/31/2013	4.7	<0.4	<0.15	4.7	116.76	548.8				
11/30/2013	2.6	<0.4	<0.15	2.6	113.91	296.2				
12/31/2013	2.2	<0.4	<0.15	2.2	117.09	257.6	3.1	8.0	3.7	9.0
1/31/2014	2.9	<0.4	<0.15	2.9	115.79	335.8				
2/28/2014	3.1	<0.4	0.9	4.0	101.31	314.1				
3/31/2014	2.9	<0.4	<0.15	2.9	109.04	316.2				
4/30/2014	3	<0.4	<0.5	3.0	110.86	332.6				
5/31/2014	3.3	<0.17	<0.15	3.3	115.75	382.0				
6/30/2014	3.2	<0.17	<0.5	3.2	110.82	354.6				
7/31/2014	3.9	<0.17	<0.5	3.9	112.97	440.6				
8/31/2014	4.3	<0.17	<0.15	4.3	112.50	483.8				
9/30/2014	4.2	<0.17	<0.15	4.2	110.09	462.4				
10/31/2014	3.8	<0.17	<0.15	3.8	113.62	431.8				
11/30/2014	5	<0.4	<0.15	5.0	107.48	537.4				
12/31/2014	4.5	<0.4	<0.15	4.5	101.25	455.6	3.7	7.6	3.7	8.4
1/31/2015	4.3	<0.4	<0.5	4.3	86.29	371.1				
2/28/2015	4.7	<0.4	<0.15	4.7	62.91	295.7				
3/31/2015	5.3	<0.17	<0.15	5.3	61.16	324.1				
4/30/2015	4.8	<0.4	<0.15	4.8	49.98	239.9				
5/31/2015	3.1	<0.4	<0.15	3.1	71.07	220.3				
6/30/2015	4.1	<0.4	<0.15	4.1	66.67	273.4				
7/31/2015	5	<0.4	<0.15	5.0	70.37	351.9				
8/31/2015	5.9	<0.4	<0.15	5.9	72.81	429.6				
9/30/2015	4.2	<0.4	0.68	4.9	75.76	318.2				
10/31/2015	2.9	<0.4	0.57	3.5	97.27	282.1				
11/30/2015	2.8	<0.4	0.26	3.1	103.01	288.4				

Appendix I. Historical Concentrations of Nitrate (as Nitrogen) at WRWRF Outfall

Item 5.

Sample Date	Nitrate-Nitrogen (mg/L)	Nitrite-Nitrogen (mg/L)	Ammonia-Nitrogen (mg/L)	Total Inorganic Nitrogen (mg/L)	Total Monthly Discharge Volume (MG)	Nitrate-N * Volume	Volume-Weighted Annual Average Nitrate-N (mg/L)	10-Year Running Volume-Weighted Average Nitrate-N (mg/L)	Volume-Weighted Annual Average TIN (mg/L)	10-Year Running Volume-Weighted Average TIN (mg/L)
12/31/2015	0.5	<0.4	4.58	5.1	109.55	54.8	3.7	6.9	4.4	7.7
1/31/2016	2.1	<0.4	7.53	9.6	80.70	169.5				
2/29/2016	3.1	<0.4	0.61	3.7	59.48	184.4				
3/31/2016	2.6	<0.4	1.19	3.8	89.15	231.8				
4/30/2016	3.0	<0.4	0.85	3.9	103.82	311.5				
5/31/2016	3.1	<0.4	0.38	3.5	97.14	301.1				
6/30/2016	4.1	<0.4	0.27	4.4	77.46	317.6				
7/31/2016	3.9	<0.4	0.55	4.5	69.00	269.1				
8/31/2016	3.1	<0.4	0.41	3.5	66.07	204.8				
9/30/2016	3.6	<0.4	0.43	4.0	73.16	263.4				
10/31/2016	3.1	<0.4	0.79	3.9	86.50	268.1				
11/30/2016	2.6	<0.4	<0.15	2.6	86.39	224.6				
12/31/2016	0.8	<0.4	5.36	6.2	109.85	87.9	2.8	5.5	4.5	6.5
1/31/2017	0.8	<0.4	13.97	14.8	115.24	92.2				
2/28/2017	0.6	<0.4	15.88	16.5	102.90	61.7				
3/31/2017	0.7	<0.4	9.2	9.9	98.59	69.0				
4/30/2017	1.3	<0.4	2.19	3.5	78.55	102.1				
5/31/2017	1.7	<0.4	1.16	2.9	92.78	157.7				
6/30/2017	1.9	<0.4	0.57	2.5	71.16	135.2				
7/31/2017	2.4	<0.4	0.51	2.9	81.18	194.8				
8/31/2017	3.5	<0.4	0.41	3.9	98.03	343.1				
9/30/2017	3.2	<0.4	0.8	4.0	101.29	324.1				
10/31/2017	3.2	<0.4	1.14	4.3	89.79	287.3				
11/30/2017	3.6	<0.4	0.17	3.8	102.73	369.8				
12/31/2017	2.3	<0.4	0.44	2.7	117.02	269.2	2.1	4.4	6.3	5.7
1/31/2018	1.7	<0.4(0.32)	<0.15	1.7	123.66	210.2				
2/28/2018	1.4	<0.4(0.27)	0.43	1.8	106.15	148.6				
3/31/2018	1.4	<0.4(0.32)	0.94	2.3	90.58	126.8				
4/30/2018	2.4	<0.4(0.0)	0.44	2.8	57.22	137.3				
5/31/2018	2.1	<0.4(0.06)	0.38	2.5	102.25	214.7				
6/30/2018	1.7	<0.4(0.0)	0.41	2.1	96.41	163.9				
7/31/2018	1.9	<0.4(0.0)	0.31	2.2	96.65	183.6				
8/31/2018	1.7	<0.4(0.0)	0.45	2.2	86.63	147.3				

Appendix I. Historical Concentrations of Nitrate (as Nitrogen) at WRWRF Outfall

Item 5.

Sample Date	Nitrate-Nitrogen (mg/L)	Nitrite-Nitrogen (mg/L)	Ammonia-Nitrogen (mg/L)	Total Inorganic Nitrogen (mg/L)	Total Monthly Discharge Volume (MG)	Nitrate-N * Volume	Volume-Weighted Annual Average Nitrate-N (mg/L)	10-Year Running Volume-Weighted Average Nitrate-N (mg/L)	Volume-Weighted Annual Average TIN (mg/L)	10-Year Running Volume-Weighted Average TIN (mg/L)
9/30/2018	2.1	<0.4(0.0)	0.25	2.35	91.68	192.52				
10/31/2018	2.4	<0.4(0.21)	0.26	2.66	100.70	241.67				
11/30/2018	2.1	<0.4(0.14)	0.17	2.27	90.77	190.62				
12/31/2018	1.2	<0.4(0.14)	<0.15 (0.0)	1.20	125.75	150.90	1.8	2.8	2.1	4.2
1/31/2019	0.8	0.2	0.85	1.85	131.33	105.07				
2/28/2019	0.4	0.7	1.13	2.23	89.22	35.69				
3/31/2019	1.1	0.5	1.22	2.82	103.61	113.97				
4/30/2019	1.6	0.47	3.3	5.37	82.55	132.08				
5/31/2019	1.2	0.02	<0.15 (0.0)	1.22	98.54	118.24				
6/30/2019	1.4	<0.4(0.03)	<0.15 (0.10)	1.40	68.94	96.51				
7/31/2019	2.2	<0.4(0.05)	<0.15 (0.04)	2.20	70.00	154.00				
8/31/2019	3	<0.4(0.05)	<0.15 (0.0)	3.00	76.72	230.15				
9/30/2019	2.7	<0.4(0.05)	<0.15 (0.06)	2.70	73.08	197.30				
10/31/2019	2.2	<0.4(0.01)	<0.18 (0.09)	2.20	59.67	131.27				
11/30/2019	2.6	<0.4(0.00)	<0.18 (0.00)	2.60	98.74	256.71				
12/31/2019	1.9	<0.4(0.12)	0.31	2.21	103.82	197.26	1.7	2.7	2.5	4.0
1/31/2020	2.1	<0.4(0.10)	1.33	3.43	74.995	157.49				
2/29/2020	2.2	<0.4(0.18)	0.58	2.78	75.597	166.31				
3/31/2020	2.3	<0.4(0.07)	2.2	4.50	115.99	266.78				
4/30/2020	4.1	<0.4(0.00)	1.83	5.93	103.563	424.61				
5/31/2020	3	<0.4(0.01)	<0.18 (0.1)	3.00	75.849	227.55				
6/30/2020	2.4	<0.4(0.00)	0.78	3.18	63.805	153.13				
7/31/2020	3.5	<0.4(0.00)	<0.15 (0.0)	3.50	60.24372	210.85				
8/31/2020	2.1	<0.4(0.07)	<0.15 (0.0)	2.10	62.513	131.28				
9/30/2020	2.1	<0.4(0.00)	<0.15 (0.0)	2.10	81.494	171.14				
10/31/2020	1.5	<0.4(0.02)	<0.15 (0.08)	1.50	81.239	121.86				
11/30/2020	1.8	0.2	0.98	3.02	81.152	146.07				
12/31/2020	0.5	0.1	5.3	5.94	87.066	43.53	2.3	2.6	3.6	3.8

APPENDICES J - S

2020 Annual Maximum Benefits Monitoring Program Report

for the

**Beaumont, San Timoteo and Yucaipa Groundwater
Management Zones**

in the

Upper Santa Ana River Basin

APPENDIX J

**Historical Stream Flow Measured at Monitoring Stations
CC-01, CC-03 and STC-01 in the
Beaumont Groundwater Management Zone**

Appendix J - Historical Stream Flow Discharge at Surface Water Monitoring Sites in the Beaumont Groundwater Management Zone Item 5.

Site name	Date	Flow	Units	Comments
CC-01	10/21/2005	2.72	cfs	Average of instantaneous measurements
CC-01	10/31/2005	2.41	cfs	Average of instantaneous measurements
CC-01	11/14/2005	2.17	cfs	Average of instantaneous measurements
CC-01	11/30/2005	2.68	cfs	Average of instantaneous measurements
CC-01	1/11/2006	3.06	cfs	Average of instantaneous measurements
CC-01	1/25/2006	3.70	cfs	Average of instantaneous measurements
CC-01	2/9/2006	2.53	cfs	Average of instantaneous measurements
CC-01	2/23/2006	2.25	cfs	Average of instantaneous measurements
CC-01	3/8/2006	7.08	cfs	Average of instantaneous measurements
CC-01	3/22/2006	4.58	cfs	Average of instantaneous measurements
CC-01	4/5/2006	16.31	cfs	Average of instantaneous measurements
CC-01	4/19/2006	5.60	cfs	Average of instantaneous measurements
CC-01	5/2/2006	3.58	cfs	Average of instantaneous measurements
CC-01	5/17/2006	2.64	cfs	Average of instantaneous measurements
CC-01	5/31/2006	3.89	cfs	Average of instantaneous measurements
CC-01	6/14/2006	3.54	cfs	Average of instantaneous measurements
CC-01	6/28/2006	3.56	cfs	Average of instantaneous measurements
CC-01	7/14/2006	8.82	cfs	Average of instantaneous measurements
CC-01	7/26/2006	7.52	cfs	Average of instantaneous measurements
CC-01	8/9/2006	4.50	cfs	Average of instantaneous measurements
CC-01	8/23/2006	5.10	cfs	Average of instantaneous measurements
CC-01	9/6/2006	6.90	cfs	Average of instantaneous measurements
CC-01	9/20/2006	6.84	cfs	Average of instantaneous measurements
CC-01	10/5/2006	2.59	cfs	Average of instantaneous measurements
CC-01	10/19/2006	3.82	cfs	Average of instantaneous measurements
CC-01	11/1/2006	3.51	cfs	Average of instantaneous measurements
CC-01	11/15/2006	1.53	cfs	Average of instantaneous measurements
CC-01	11/29/2006	4.32	cfs	Average of instantaneous measurements
CC-01	12/13/2006	2.08	cfs	Average of instantaneous measurements
CC-01	12/27/2006	2.74	cfs	Average of instantaneous measurements
CC-01	1/10/2007	4.72	cfs	Average of instantaneous measurements
CC-01	1/24/2007	5.91	cfs	Average of instantaneous measurements
CC-01	2/7/2007	4.94	cfs	Average of instantaneous measurements
CC-01	2/21/2007	3.10	cfs	Average of instantaneous measurements

Appendix J - Historical Stream Flow Discharge at Surface Water Monitoring Sites in the Beaumont Groundwater Management Zone Item 5.

Site name	Date	Flow	Units	Comments
CC-01	3/7/2007	5.03	cfs	Average of instantaneous measurements
CC-01	3/21/2007	5.61	cfs	Average of instantaneous measurements
CC-01	4/4/2007	5.88	cfs	Average of instantaneous measurements
CC-01	4/18/2007	5.98	cfs	Average of instantaneous measurements
CC-01	5/2/2007	5.98	cfs	Average of instantaneous measurements
CC-01	5/16/2007	6.13	cfs	Average of instantaneous measurements
CC-01	5/30/2007	5.87	cfs	Average of instantaneous measurements
CC-01	6/13/2007	5.87	cfs	Average of instantaneous measurements
CC-01	6/27/2007	5.01	cfs	Average of instantaneous measurements
CC-01	7/11/2007	4.81	cfs	Average of instantaneous measurements
CC-01	7/25/2007	4.88	cfs	Average of instantaneous measurements
CC-01	8/8/2007	6.98	cfs	Average of instantaneous measurements
CC-01	8/22/2007	13.55	cfs	Average of instantaneous measurements
CC-01	9/5/2007	2.89	cfs	Average of instantaneous measurements
CC-01	9/19/2007	6.80	cfs	Average of instantaneous measurements
CC-01	10/3/2007	3.97	cfs	Average of instantaneous measurements
CC-01	10/17/2007	12.90	cfs	Average of instantaneous measurements
CC-01	10/31/2007	12.40	cfs	Average of instantaneous measurements
CC-01	11/14/2007	13.30	cfs	Average of instantaneous measurements
CC-01	11/28/2007	12.40	cfs	Average of instantaneous measurements
CC-01	12/12/2007	36.41	cfs	Average of instantaneous measurements
CC-01	12/18/2007	2.72	cfs	Average of instantaneous measurements
CC-01	1/2/2008	1.59	cfs	Average of instantaneous measurements
CC-01	1/15/2008	1.75	cfs	Average of instantaneous measurements
CC-01	1/29/2008	2.38	cfs	Average of instantaneous measurements
CC-01	2/12/2008	3.65	cfs	Average of instantaneous measurements
CC-01	2/26/2008	3.24	cfs	Average of instantaneous measurements
CC-01	3/11/2008	1.89	cfs	Average of instantaneous measurements
CC-01	3/25/2008	4.21	cfs	Average of instantaneous measurements
CC-01	4/8/2008	3.58	cfs	Average of instantaneous measurements
CC-01	4/22/2008	4.58	cfs	Average of instantaneous measurements
CC-01	5/6/2008	0.00	cfs	Average of instantaneous measurements
CC-01	5/20/2008	1.78	cfs	Average of instantaneous measurements
CC-01	6/2/2008	2.58	cfs	Average of instantaneous measurements

Appendix J - Historical Stream Flow Discharge at Surface Water Monitoring Sites in the Beaumont Groundwater Management Zone Item 5.

Site name	Date	Flow	Units	Comments
CC-01	6/17/2008	1.12	cfs	Average of instantaneous measurements
CC-01	6/30/2008	1.23	cfs	Average of instantaneous measurements
CC-01	7/17/2008	0.00	cfs	Average of instantaneous measurements
CC-01	7/29/2008	0.00	cfs	Average of instantaneous measurements
CC-01	8/12/2008	0.00	cfs	Average of instantaneous measurements
CC-01	8/26/2008	0.00	cfs	Average of instantaneous measurements
CC-01	9/9/2008	1.52	cfs	Average of instantaneous measurements
CC-01	9/23/2008	6.27	cfs	Average of instantaneous measurements
CC-01	10/9/2008	3.15	cfs	Average of instantaneous measurements
CC-01	10/23/2008	2.97	cfs	Average of instantaneous measurements
CC-01	11/6/2008	3.00	cfs	Average of instantaneous measurements
CC-01	11/20/2008	2.78	cfs	Average of instantaneous measurements
CC-01	12/4/2008	1.68	cfs	Average of instantaneous measurements
CC-01	12/18/2008	5.65	cfs	Average of instantaneous measurements
CC-01	12/30/2008	2.55	cfs	Average of instantaneous measurements
CC-01	1/19/2009	2.35	cfs	Average of instantaneous measurements
CC-01	1/29/2009	2.70	cfs	Average of instantaneous measurements
CC-01	2/12/2009	4.75	cfs	Average of instantaneous measurements
CC-01	2/26/2009	3.13	cfs	Average of instantaneous measurements
CC-01	3/12/2009	1.95	cfs	Average of instantaneous measurements
CC-01	3/26/2009	2.74	cfs	Average of instantaneous measurements
CC-01	4/9/2009	2.20	cfs	Average of instantaneous measurements
CC-01	4/23/2009	3.22	cfs	Average of instantaneous measurements
CC-01	5/7/2009	2.62	cfs	Average of instantaneous measurements
CC-01	5/21/2009	3.04	cfs	Average of instantaneous measurements
CC-01	6/4/2009	1.93	cfs	Average of instantaneous measurements
CC-01	6/18/2009	2.33	cfs	Average of instantaneous measurements
CC-01	7/2/2009	2.67	cfs	Average of instantaneous measurements
CC-01	7/16/2009	1.93	cfs	Average of instantaneous measurements
CC-01	7/30/2009	2.31	cfs	Average of instantaneous measurements
CC-01	8/13/2009	2.99	cfs	Average of instantaneous measurements
CC-01	8/27/2009	3.13	cfs	Average of instantaneous measurements
CC-01	9/10/2009	3.33	cfs	Average of instantaneous measurements
CC-01	9/24/2009	3.02	cfs	Average of instantaneous measurements

Appendix J - Historical Stream Flow Discharge at Surface Water Monitoring Sites in the Beaumont Groundwater Management Zone Item 5.

Site name	Date	Flow	Units	Comments
CC-01	10/8/2009	3.14	cfs	Average of instantaneous measurements
CC-01	10/20/2009	1.81	cfs	Average of instantaneous measurements
CC-01	11/5/2009	3.19	cfs	Average of instantaneous measurements
CC-01	11/19/2009	2.12	cfs	Average of instantaneous measurements
CC-01	12/3/2009	2.45	cfs	Average of instantaneous measurements
CC-01	12/17/2009	2.83	cfs	Average of instantaneous measurements
CC-01	12/30/2009	2.39	cfs	Average of instantaneous measurements
CC-01	1/14/2010	2.24	cfs	Average of instantaneous measurements
CC-01	2/25/2010	4.18	cfs	Average of instantaneous measurements
CC-01	3/11/2010	3.05	cfs	Average of instantaneous measurements
CC-01	3/25/2010	3.17	cfs	Average of instantaneous measurements
CC-01	4/8/2010	1.84	cfs	Average of instantaneous measurements
CC-01	4/22/2010	2.87	cfs	Average of instantaneous measurements
CC-01	5/6/2010	2.76	cfs	Average of instantaneous measurements
CC-01	5/20/2010	2.52	cfs	Average of instantaneous measurements
CC-01	6/3/2010	2.08	cfs	Average of instantaneous measurements
CC-01	6/17/2010	1.40	cfs	Average of instantaneous measurements
CC-01	7/1/2010	1.78	cfs	Average of instantaneous measurements
CC-01	7/15/2010	1.67	cfs	Average of instantaneous measurements
CC-01	7/29/2010	1.20	cfs	Average of instantaneous measurements
CC-01	8/12/2010	1.84	cfs	Average of instantaneous measurements
CC-01	8/26/2010	1.46	cfs	Average of instantaneous measurements
CC-01	9/9/2010	2.02	cfs	Average of instantaneous measurements
CC-01	9/23/2010	1.91	cfs	Average of instantaneous measurements
CC-01	10/7/2010	2.12	cfs	Average of instantaneous measurements
CC-01	10/21/2010	1.88	cfs	Average of instantaneous measurements
CC-01	11/4/2010	2.22	cfs	Average of instantaneous measurements
CC-01	11/18/2010	2.40	cfs	Average of instantaneous measurements
CC-01	12/2/2010	2.10	cfs	Average of instantaneous measurements
CC-01	3/3/2011	3.43	cfs	Average of instantaneous measurements
CC-01	3/18/2011	2.05	cfs	Average of instantaneous measurements
CC-01	3/31/2011	1.47	cfs	Average of instantaneous measurements
CC-01	4/14/2011	3.39	cfs	Average of instantaneous measurements
CC-01	4/28/2011	1.93	cfs	Average of instantaneous measurements

Appendix J - Historical Stream Flow Discharge at Surface Water Monitoring Sites in the Beaumont Groundwater Management Zone Item 5.

Site name	Date	Flow	Units	Comments
CC-01	5/12/2011	1.83	cfs	Average of instantaneous measurements
CC-01	5/26/2011	1.91	cfs	Average of instantaneous measurements
CC-01	7/7/2011	2.24	cfs	Average of instantaneous measurements
CC-01	10/11/2011	4.11	cfs	Average of instantaneous measurements
CC-01	10/27/2011	5.07	cfs	Average of instantaneous measurements
CC-01	11/17/2011	2.42	cfs	Average of instantaneous measurements
CC-01	11/29/2011	2.31	cfs	Average of instantaneous measurements
CC-01	12/8/2011	2.02	cfs	Average of instantaneous measurements
CC-01	12/21/2011	2.30	cfs	Average of instantaneous measurements
CC-01	1/11/2012	2.62	cfs	Average of instantaneous measurements
CC-01	1/26/2012	2.48	cfs	Average of instantaneous measurements
CC-01	2/8/2012	1.89	cfs	Average of instantaneous measurements
CC-01	2/27/2012	2.09	cfs	Average of instantaneous measurements
CC-01	3/9/2012	2.16	cfs	Average of instantaneous measurements
CC-01	3/26/2012	3.08	cfs	Average of instantaneous measurements
CC-01	4/12/2012	3.45	cfs	Average of instantaneous measurements
CC-01	4/27/2012	2.92	cfs	Average of instantaneous measurements
CC-01	5/18/2012	2.82	cfs	Average of instantaneous measurements
CC-01	5/30/2012	2.74	cfs	Average of instantaneous measurements
CC-01	6/12/2012	2.20	cfs	Average of instantaneous measurements
CC-01	6/28/2012	2.74	cfs	Average of instantaneous measurements
CC-01	7/9/2012	2.55	cfs	Average of instantaneous measurements
CC-01	7/24/2012	1.28	cfs	Average of instantaneous measurements
CC-01	8/3/2012	2.69	cfs	Average of instantaneous measurements
CC-01	8/16/2012	2.45	cfs	Average of instantaneous measurements
CC-01	9/7/2012	2.21	cfs	Average of instantaneous measurements
CC-01	9/25/2012	2.35	cfs	Average of instantaneous measurements
CC-01	10/10/2012	2.19	cfs	Average of instantaneous measurements
CC-01	10/26/2012	2.20	cfs	Average of instantaneous measurements
CC-01	11/7/2012	2.16	cfs	Average of instantaneous measurements
CC-01	11/15/2012	2.66	cfs	Average of instantaneous measurements
CC-01	12/6/2012	2.07	cfs	Average of instantaneous measurements
CC-01	12/14/2012	2.07	cfs	Average of instantaneous measurements
CC-01	1/3/2013	1.77	cfs	Average of instantaneous measurements

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Site name	Date	Flow	Units	Comments
CC-01	1/14/2013	3.09	cfs	Average of instantaneous measurements
CC-01	2/1/2013	1.81	cfs	Average of instantaneous measurements
CC-01	2/21/2013	2.50	cfs	Average of instantaneous measurements
CC-01	3/5/2013	2.61	cfs	Average of instantaneous measurements
CC-01	3/20/2013	2.81	cfs	Average of instantaneous measurements
CC-01	4/4/2013	2.68	cfs	Average of instantaneous measurements
CC-01	4/18/2013	2.86	cfs	Average of instantaneous measurements
CC-01	5/7/2013	4.14	cfs	Average of instantaneous measurements
CC-01	5/21/2013	3.06	cfs	Average of instantaneous measurements
CC-01	6/7/2013	1.76	cfs	Average of instantaneous measurements
CC-01	6/27/2013	3.04	cfs	Average of instantaneous measurements
CC-01	7/10/2013	2.20	cfs	Average of instantaneous measurements
CC-01	7/26/2013	2.34	cfs	Average of instantaneous measurements
CC-01	8/9/2013	2.45	cfs	Average of instantaneous measurements
CC-01	8/28/2013	1.85	cfs	Average of instantaneous measurements
CC-01	9/13/2013	2.82	cfs	Average of instantaneous measurements
CC-01	9/26/2013	3.41	cfs	Average of instantaneous measurements
CC-01	10/8/2013	2.52	cfs	Average of instantaneous measurements
CC-01	10/23/2013	1.65	cfs	Average of instantaneous measurements
CC-01	11/8/2013	2.86	cfs	Average of instantaneous measurements
CC-01	11/21/2013	3.09	cfs	Average of instantaneous measurements
CC-01	12/9/2013	2.22	cfs	Average of instantaneous measurements
CC-01	12/24/2013	3.61	cfs	Average of instantaneous measurements
CC-01	1/10/2014	3.08	cfs	Average of instantaneous measurements
CC-01	2/10/2014	2.57	cfs	Average of instantaneous measurements
CC-01	2/26/2014	2.16	cfs	Average of instantaneous measurements
CC-01	3/6/2014	1.56	cfs	Average of instantaneous measurements
CC-01	3/20/2014	2.58	cfs	Average of instantaneous measurements
CC-01	4/4/2014	2.02	cfs	Average of instantaneous measurements
CC-01	4/17/2014	1.08	cfs	Average of instantaneous measurements
CC-01	5/1/2014	2.00	cfs	Average of instantaneous measurements
CC-01	5/19/2014	2.15	cfs	Average of instantaneous measurements
CC-01	6/1/2014	1.14	cfs	Average of instantaneous measurements
CC-01	6/20/2014	1.44	cfs	Average of instantaneous measurements

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Site name	Date	Flow	Units	Comments
CC-01	7/1/2014	1.93	cfs	Average of instantaneous measurements
CC-01	7/17/2014	1.72	cfs	Average of instantaneous measurements
CC-01	8/1/2014	1.58	cfs	Average of instantaneous measurements
CC-01	8/11/2014	2.03	cfs	Average of instantaneous measurements
CC-01	9/8/2014	3.32	cfs	Average of instantaneous measurements
CC-01	9/24/2014	2.77	cfs	Average of instantaneous measurements
CC-01	10/8/2014	3.44	cfs	Average of instantaneous measurements
CC-01	10/17/2014	3.48	cfs	Average of instantaneous measurements
CC-01	11/6/2014	3.59	cfs	Average of instantaneous measurements
CC-01	11/20/2014	3.06	cfs	Instantaneous
CC-01	12/5/2014	3.62	cfs	Average of instantaneous measurements
CC-01	12/22/2014	4.44	cfs	Average of instantaneous measurements
CC-01	8/23/2016	4.79	cfs	
CC-01	9/6/2016	4.67	cfs	
CC-01	9/20/2016	4.20	cfs	
CC-01	10/4/2016	3.47	cfs	
CC-01	10/18/2016	3.69	cfs	
CC-01	11/1/2016	3.78	cfs	
CC-01	11/15/2016	4.47	cfs	
CC-01	11/30/2016	5.45	cfs	
CC-01	12/20/2016	4.35	cfs	
CC-01	1/10/2017	4.69	cfs	
CC-01	1/24/2017	6.67	cfs	
CC-01	2/8/2017	3.55	cfs	
CC-01	2/21/2017	5.10	cfs	
CC-01	3/9/2017	4.30	cfs	
CC-01	3/24/2017	4.14	cfs	
CC-01	4/4/2017	4.54	cfs	
CC-01	4/18/2017	4.11	cfs	
CC-01	5/2/2017	4.96	cfs	
CC-01	5/16/2017	4.44	cfs	
CC-01	5/30/2017	3.95	cfs	
CC-01	6/13/2017	3.71	cfs	
CC-01	6/27/2017	4.04	cfs	

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Site name	Date	Flow	Units	Comments
CC-01	7/13/2017	4.70	cfs	
CC-01	8/1/2017	3.99	cfs	
CC-01	8/22/2017	4.92	cfs	
CC-01	9/12/2017	4.71	cfs	
CC-01	9/19/2017	6.36	cfs	
CC-01	9/27/2017	4.23	cfs	
CC-01	10/11/2017	4.34	cfs	
CC-01	10/27/2017	4.90	cfs	
CC-01	11/6/2017	5.20	cfs	
CC-01	11/20/2017	3.87	cfs	
CC-01	12/5/2017	4.25	cfs	
CC-01	12/21/2017	5.36	cfs	
CC-01	1/12/2018	4.26	cfs	
CC-01	2/2/2018	4.42	cfs	
CC-01	2/15/2018	4.67	cfs	
CC-01	3/5/2018	4.44	cfs	
CC-01	3/29/2018	1.87	cfs	
CC-01	4/12/2018	4.77	cfs	
CC-01	4/26/2018	4.64	cfs	
CC-01	5/8/2018	5.17	cfs	
CC-01	5/25/2018	4.89	cfs	
CC-01	6/8/2018	4.31	cfs	
CC-01	6/27/2018	4.61	cfs	
CC-01	7/10/2018	4.35	cfs	
CC-01	7/17/2018	4.34	cfs	
CC-01	7/31/2018	4.72	cfs	
CC-01	8/17/2018	5.42	cfs	
CC-01	8/29/2018	4.36	cfs	
CC-01	9/14/2018	4.09	cfs	
CC-01	9/25/2018	4.80	cfs	
CC-01	10/12/2018	4.71	cfs	
CC-01	10/24/2018	5.29	cfs	
CC-01	11/12/2018	5.17	cfs	
CC-01	11/24/2018	5.73	cfs	
CC-01	11/30/2018	10.10	cfs	

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Site name	Date	Flow	Units	Comments
CC-01	12/21/2018	4.22	cfs	
CC-01	1/3/2019	4.18	cfs	
CC-01	1/18/2019	5.77	cfs	
CC-01	2/7/2019	4.77	cfs	
CC-01	2/18/2019	9.18	cfs	
CC-01	3/4/2019	6.66	cfs	
CC-01	3/18/2019	6.45	cfs	
CC-01	4/4/2019	5.07	cfs	
CC-01	4/24/2019	6.35	cfs	
CC-01	5/7/2019	8.60	cfs	
CC-01	5/25/2019	3.82	cfs	
CC-01	6/6/2019	5.12	cfs	
CC-01	6/20/2019	6.02	cfs	
CC-01	7/3/2019	4.71	cfs	
CC-01	7/16/2019	6.02	cfs	
CC-01	8/2/2019	4.38	cfs	
CC-01	8/15/2019	5.78	cfs	
CC-01	8/29/2019	5.03	cfs	
CC-01	9/15/2019	5.34	cfs	
CC-01	10/4/2019	4.92	cfs	
CC-01	10/14/2019	5.10	cfs	
CC-01	10/27/2019	5.10	cfs	
CC-01	11/8/2019	4.02	cfs	
CC-01	11/19/2019	5.27	cfs	
CC-01	11/29/2019	6.57	cfs	
CC-01	12/17/2019	3.99	cfs	
CC-01	12/30/2019	5.15	cfs	
CC-01	1/17/2020	4.88	cfs	
CC-01	2/5/2020	4.85	cfs	
CC-01	2/13/2020	4.82	cfs	
CC-01	3/2/2020	5.67	cfs	
CC-01	3/14/2020	4.94	cfs	
CC-01	4/4/2020	4.41	cfs	
CC-01	4/18/2020	5.31	cfs	
CC-01	4/28/2020	5.07	cfs	
CC-01	5/18/2020	5.61	cfs	

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Site name	Date	Flow	Units	Comments
CC-01	6/7/2020	4.46	cfs	
CC-01	6/18/2020	4.88	cfs	
CC-01	6/27/2020	6.57	cfs	
CC-01	7/18/2020	4.91	cfs	
CC-01	7/28/2020	2.13	cfs	
CC-01	8/16/2020	5.69	cfs	
CC-01	8/29/2020	4.41	cfs	
CC-01	9/12/2020	8.75	cfs	
CC-01	9/22/2020	7.23	cfs	
CC-01	10/10/2020	6.34	cfs	
CC-01	11/3/2020	5.11	cfs	
CC-01	11/10/2020	5.69	cfs	
CC-01	11/25/2020	7.53	cfs	
CC-01	12/10/2020	6.48	cfs	
CC-01	12/23/2020	8.08	cfs	

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Site name	Date	Flow	Units	Comments
CC-03	8/23/2016	3.99	cfs	
CC-03	9/6/2016	2.32	cfs	
CC-03	9/20/2016	3.73	cfs	
CC-03	10/4/2016	3.23	cfs	
CC-03	10/18/2016	4.16	cfs	
CC-03	11/1/2016	4.13	cfs	
CC-03	11/15/2016	3.77	cfs	
CC-03	11/30/2016	4.57	cfs	
CC-03	12/20/2016	3.69	cfs	
CC-03	1/10/2017	4.47	cfs	
CC-03	1/24/2017	7.61	cfs	
CC-03	2/8/2017	4.84	cfs	
CC-03	2/21/2017	5.07	cfs	
CC-03	3/9/2017	5.18	cfs	
CC-03	3/24/2017	3.83	cfs	
CC-03	4/4/2017	3.58	cfs	
CC-03	4/18/2017	4.74	cfs	
CC-03	5/2/2017	4.50	cfs	
CC-03	5/16/2017	5.12	cfs	
CC-03	5/30/2017	4.58	cfs	
CC-03	6/13/2017	3.59	cfs	
CC-03	6/27/2017	2.57	cfs	
CC-03	7/13/2017	2.88	cfs	
CC-03	8/1/2017	3.17	cfs	
CC-03	8/22/2017	3.40	cfs	
CC-03	9/12/2017	4.85	cfs	
CC-03	9/19/2017	5.05	cfs	
CC-03	9/27/2017	3.56	cfs	
CC-03	10/11/2017	3.41	cfs	
CC-03	10/27/2017	3.62	cfs	
CC-03	11/6/2017	4.93	cfs	
CC-03	11/20/2017	3.68	cfs	
CC-03	12/5/2017	4.56	cfs	
CC-03	12/21/2017	4.08	cfs	
CC-03	1/12/2018	5.32	cfs	

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Site name	Date	Flow	Units	Comments
CC-03	2/2/2018	4.25	cfs	
CC-03	2/15/2018	2.89	cfs	
CC-03	3/5/2018	3.02	cfs	
CC-03	3/29/2018	1.83	cfs	
CC-03	4/12/2018	5.53	cfs	
CC-03	4/26/2018	6.13	cfs	
CC-03	5/8/2018	4.68	cfs	
CC-03	5/25/2018	5.30	cfs	
CC-03	6/8/2018	5.20	cfs	
CC-03	6/27/2018	5.00	cfs	
CC-03	7/10/2018	4.91	cfs	
CC-03	7/17/2018	4.84	cfs	
CC-03	7/31/2018	3.80	cfs	
CC-03	8/17/2018	6.91	cfs	
CC-03	8/29/2018	3.34	cfs	
CC-03	9/14/2018	4.25	cfs	
CC-03	9/25/2018	3.62	cfs	
CC-03	10/12/2018	3.86	cfs	
CC-03	10/24/2018	4.66	cfs	
CC-03	11/12/2018	3.72	cfs	
CC-03	11/24/2018	4.20	cfs	
CC-03	11/30/2018	11.22	cfs	
CC-03	12/21/2018	4.55	cfs	
CC-03	1/3/2019	4.46	cfs	
CC-03	1/18/2019	6.91	cfs	
CC-03	2/7/2019	6.17	cfs	
CC-03	2/18/2019	10.20	cfs	
CC-03	3/4/2019	4.35	cfs	
CC-03	3/18/2019	4.51	cfs	
CC-03	4/4/2019	3.72	cfs	
CC-03	4/24/2019	4.45	cfs	
CC-03	5/7/2019	6.90	cfs	
CC-03	5/25/2019	5.02	cfs	
CC-03	6/6/2019	4.39	cfs	
CC-03	6/20/2019	3.85	cfs	

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Site name	Date	Flow	Units	Comments
CC-03	7/3/2019	5.03	cfs	
CC-03	7/16/2019	4.87	cfs	
CC-03	8/2/2019	4.56	cfs	
CC-03	8/15/2019	3.59	cfs	
CC-03	8/29/2019	4.64	cfs	
CC-03	9/15/2019	3.77	cfs	
CC-03	10/4/2019	3.78	cfs	
CC-03	10/14/2019	2.94	cfs	
CC-03	10/27/2019	2.94	cfs	
CC-03	11/8/2019	3.02	cfs	
CC-03	11/19/2019	4.66	cfs	
CC-03	11/29/2019	8.99	cfs	
CC-03	12/17/2019	4.32	cfs	
CC-03	12/30/2019	6.46	cfs	
CC-03	1/17/2020	6.27	cfs	
CC-03	2/5/2020	5.22	cfs	
CC-03	2/13/2020	5.24	cfs	
CC-03	3/2/2020	5.35	cfs	
CC-03	3/14/2020	6.91	cfs	
CC-03	4/4/2020	5.43	cfs	
CC-03	4/18/2020	5.30	cfs	
CC-03	4/28/2020	4.80	cfs	
CC-03	5/18/2020	5.97	cfs	
CC-03	6/7/2020	3.28	cfs	
CC-03	6/18/2020	5.39	cfs	
CC-03	6/27/2020	4.94	cfs	
CC-03	7/18/2020	2.53	cfs	
CC-03	7/28/2020	0.91	cfs	
CC-03	8/16/2020	2.62	cfs	
CC-03	8/29/2020	2.74	cfs	
CC-03	9/12/2020	7.20	cfs	
CC-03	9/22/2020	6.89	cfs	
CC-03	10/10/2020	7.56	cfs	
CC-03	11/3/2020	5.57	cfs	
CC-03	11/10/2020	4.20	cfs	
CC-03	11/25/2020	4.59	cfs	
CC-03	12/10/2020	5.83	cfs	
CC-03	12/23/2020	5.74	cfs	

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Station ID	Date	Flow	Unit	Comments
STC-01	12/12/2005	6.73	cfs	
STC-01	12/28/2005	6.33	cfs	
STC-01	1/10/2006	6.33	cfs	
STC-01	1/11/2006	5.76	cfs	
STC-01	1/25/2006	7.55	cfs	
STC-01	1/27/2006	6.73	cfs	
STC-01	2/6/2006	4.18	cfs	
STC-01	2/9/2006	4.91	cfs	
STC-01	2/23/2006	4.26	cfs	
STC-01	2/24/2006	6.33	cfs	
STC-01	3/8/2006	3.51	cfs	
STC-01	3/10/2006	5.34	cfs	
STC-01	3/22/2006	12.42	cfs	
STC-01	4/5/2006	51.30	cfs	
STC-01	5/2/2006	4.44	cfs	
STC-01	5/3/2006	5.00	cfs	
STC-01	5/15/2006	3.57	cfs	
STC-01	5/17/2006	1.83	cfs	
STC-01	5/30/2006	2.28	cfs	
STC-01	5/31/2006	1.57	cfs	
STC-01	6/13/2006	1.36	cfs	
STC-01	6/14/2006	1.30	cfs	
STC-01	6/27/2006	1.83	cfs	
STC-01	6/28/2006	0.81	cfs	
STC-01	7/13/2006	2.28	cfs	
STC-01	7/14/2006	1.57	cfs	
STC-01	7/21/2006	2.08	cfs	
STC-01	7/26/2006	0.04	cfs	
STC-01	8/4/2006	2.59	cfs	
STC-01	8/9/2006	0.83	cfs	
STC-01	8/11/2006	2.05	cfs	
STC-01	8/18/2006	1.95	cfs	
STC-01	8/23/2006	1.41	cfs	
STC-01	8/25/2006	1.46	cfs	
STC-01	9/1/2006	1.61	cfs	

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Station ID	Date	Flow	Unit	Comments
STC-01	9/6/2006	0.74	cfs	
STC-01	9/8/2006	1.86	cfs	
STC-01	9/20/2006	0.83	cfs	
STC-01	9/29/2006	1.84	cfs	
STC-01	10/5/2006	1.34	cfs	
STC-01	10/6/2006	1.95	cfs	
STC-01	10/13/2006	2.21	cfs	
STC-01	10/19/2006	2.42	cfs	
STC-01	10/20/2006	2.48	cfs	
STC-01	10/27/2006	2.61	cfs	
STC-01	11/1/2006	2.61	cfs	
STC-01	11/3/2006	2.94	cfs	
STC-01	11/10/2006	2.07	cfs	
STC-01	11/15/2006	2.03	cfs	
STC-01	11/17/2006	2.70	cfs	
STC-01	11/28/2006	3.05	cfs	
STC-01	11/29/2006	2.05	cfs	
STC-01	12/8/2006	5.34	cfs	
STC-01	12/13/2006	2.16	cfs	
STC-01	12/15/2006	3.49	cfs	
STC-01	12/22/2006	2.54	cfs	
STC-01	12/27/2006	3.19	cfs	
STC-01	12/29/2006	3.66	cfs	
STC-01	1/5/2007	6.49	cfs	
STC-01	1/10/2007	1.57	cfs	
STC-01	1/12/2007	3.09	cfs	
STC-01	1/24/2007	3.02	cfs	
STC-01	1/26/2007	2.77	cfs	
STC-01	2/2/2007	3.34	cfs	
STC-01	2/7/2007	2.74	cfs	
STC-01	2/12/2007	2.47	cfs	
STC-01	2/16/2007	3.40	cfs	
STC-01	2/21/2007	2.74	cfs	
STC-01	2/23/2007	5.16	cfs	
STC-01	3/2/2007	3.58	cfs	

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Station ID	Date	Flow	Unit	Comments
STC-01	3/7/2007	2.11	cfs	
STC-01	3/9/2007	2.97	cfs	
STC-01	3/16/2007	2.32	cfs	
STC-01	3/21/2007	5.30	cfs	
STC-01	3/23/2007	3.47	cfs	
STC-01	3/30/2007	2.99	cfs	
STC-01	4/4/2007	4.30	cfs	
STC-01	4/6/2007	2.56	cfs	
STC-01	4/13/2007	2.66	cfs	
STC-01	4/18/2007	2.82	cfs	
STC-01	4/20/2007	2.84	cfs	
STC-01	4/27/2007	3.28	cfs	
STC-01	5/2/2007	2.24	cfs	
STC-01	5/4/2007	2.50	cfs	
STC-01	5/11/2007	2.17	cfs	
STC-01	5/16/2007	2.06	cfs	
STC-01	5/17/2007	2.18	cfs	
STC-01	5/25/2007	2.34	cfs	
STC-01	5/30/2007	1.30	cfs	
STC-01	5/31/2007	2.61	cfs	
STC-01	6/13/2007	2.35	cfs	
STC-01	6/15/2007	1.74	cfs	
STC-01	6/22/2007	1.68	cfs	
STC-01	6/27/2007	0.68	cfs	
STC-01	6/29/2007	1.31	cfs	
STC-01	7/6/2007	1.60	cfs	
STC-01	7/11/2007	0.72	cfs	
STC-01	7/20/2007	0.97	cfs	
STC-01	7/25/2007	0.82	cfs	
STC-01	8/2/2007	1.44	cfs	
STC-01	8/8/2007	4.71	cfs	
STC-01	8/10/2007	1.54	cfs	
STC-01	8/22/2007	3.30	cfs	
STC-01	8/24/2007	1.30	cfs	
STC-01	8/31/2007	1.28	cfs	

Appendix J - Historical Stream Flow Discharge at Surface Water Monitoring Sites in the Beaumont Groundwater Management Zone Item 5.

Station ID	Date	Flow	Unit	Comments
STC-01	9/5/2007	22.44	cfs	
STC-01	9/7/2007	1.54	cfs	
STC-01	9/14/2007	1.80	cfs	
STC-01	9/19/2007	10.84	cfs	
STC-01	9/21/2007	2.32	cfs	
STC-01	9/28/2007	2.34	cfs	
STC-01	10/3/2007	12.31	cfs	
STC-01	10/5/2007	2.00	cfs	
STC-01	10/12/2007	3.35	cfs	
STC-01	10/17/2007	3.28	cfs	
STC-01	10/19/2007	2.68	cfs	
STC-01	10/31/2007	5.66	cfs	
STC-01	11/2/2007	2.35	cfs	
STC-01	11/9/2007	2.70	cfs	
STC-01	11/14/2007	6.46	cfs	
STC-01	11/16/2007	3.14	cfs	
STC-01	11/28/2007	5.76	cfs	
STC-01	11/30/2007	3.28	cfs	
STC-01	12/6/2007	3.04	cfs	
STC-01	12/12/2007	21.42	cfs	
STC-01	12/14/2007	4.31	cfs	
STC-01	12/18/2007	3.61	cfs	
STC-01	12/20/2007	4.53	cfs	
STC-01	12/28/2007	4.95	cfs	
STC-01	1/2/2008	3.85	cfs	
STC-01	1/3/2008	3.20	cfs	
STC-01	1/11/2008	4.59	cfs	
STC-01	1/15/2008	4.76	cfs	
STC-01	1/18/2008	4.49	cfs	
STC-01	1/29/2008	9.40	cfs	
STC-01	2/1/2008	6.04	cfs	
STC-01	2/8/2008	4.14	cfs	
STC-01	2/12/2008	4.54	cfs	
STC-01	2/15/2008	5.14	cfs	
STC-01	2/26/2008	6.73	cfs	

Appendix J - Historical Stream Flow Discharge at Surface Water Monitoring Sites in the Beaumont Groundwater Management Zone Item 5.

Station ID	Date	Flow	Unit	Comments
STC-01	2/29/2008	4.98	cfs	
STC-01	3/7/2008	5.03	cfs	
STC-01	3/11/2008	3.86	cfs	
STC-01	3/14/2008	3.94	cfs	
STC-01	3/21/2008	3.85	cfs	
STC-01	3/25/2008	2.61	cfs	
STC-01	4/4/2008	4.37	cfs	
STC-01	4/8/2008	3.30	cfs	
STC-01	4/11/2008	5.08	cfs	
STC-01	4/21/2008	3.68	cfs	
STC-01	4/22/2008	3.62	cfs	
STC-01	4/28/2008	4.27	cfs	
STC-01	5/2/2008	3.08	cfs	
STC-01	5/6/2008	2.29	cfs	
STC-01	5/9/2008	3.15	cfs	
STC-01	5/16/2008	2.75	cfs	
STC-01	5/20/2008	2.15	cfs	
STC-01	5/30/2008	4.15	cfs	
STC-01	6/2/2008	2.99	cfs	
STC-01	6/6/2008	2.94	cfs	
STC-01	6/13/2008	3.04	cfs	
STC-01	6/17/2008	0.00	cfs	
STC-01	6/20/2008	2.72	cfs	
STC-01	6/27/2008	2.08	cfs	
STC-01	6/30/2008	0.00	cfs	
STC-01	7/3/2008	2.86	cfs	
STC-01	7/11/2008	2.62	cfs	
STC-01	7/17/2008	2.37	cfs	
STC-01	7/18/2008	1.68	cfs	
STC-01	7/25/2008	2.09	cfs	
STC-01	7/29/2008	1.62	cfs	
STC-01	8/1/2008	2.26	cfs	
STC-01	8/8/2008	2.03	cfs	
STC-01	8/12/2008	1.54	cfs	
STC-01	8/25/2008	1.83	cfs	

Appendix J - Historical Stream Flow Discharge at Surface Water Monitoring Sites in the Beaumont Groundwater Management Zone Item 5.

Station ID	Date	Flow	Unit	Comments
STC-01	8/26/2008	1.54	cfs	
STC-01	8/29/2008	2.31	cfs	
STC-01	9/8/2008	1.72	cfs	
STC-01	9/9/2008	4.77	cfs	
STC-01	9/18/2008	1.93	cfs	
STC-01	9/23/2008	2.20	cfs	
STC-01	9/26/2008	1.84	cfs	
STC-01	10/3/2008	1.82	cfs	
STC-01	10/9/2008	2.77	cfs	
STC-01	10/10/2008	1.82	cfs	
STC-01	10/17/2008	1.76	cfs	
STC-01	11/13/2008	2.25	cfs	
STC-01	12/18/2008	11.77	cfs	
STC-01	12/19/2008	7.20	cfs	
STC-01	12/24/2008	4.26	cfs	
STC-01	12/30/2008	3.47	cfs	
STC-01	12/31/2008	4.41	cfs	
STC-01	1/19/2009	3.66	cfs	
STC-01	1/29/2009	3.39	cfs	
STC-01	2/12/2009	3.87	cfs	
STC-01	2/26/2009	5.11	cfs	
STC-01	3/12/2009	3.70	cfs	
STC-01	3/26/2009	4.05	cfs	
STC-01	4/9/2009	3.44	cfs	
STC-01	4/23/2009	2.45	cfs	
STC-01	5/7/2009	2.59	cfs	
STC-01	5/21/2009	1.85	cfs	
STC-01	6/18/2009	2.60	cfs	
STC-01	7/2/2009	1.12	cfs	
STC-01	7/16/2009	1.42	cfs	
STC-01	7/30/2009	1.56	cfs	
STC-01	8/13/2009	1.16	cfs	
STC-01	8/27/2009	0.78	cfs	
STC-01	9/10/2009	0.71	cfs	
STC-01	9/24/2009	0.94	cfs	

Appendix J - Historical Stream Flow Discharge at Surface Water Monitoring Sites in the Beaumont Groundwater Management Zone Item 5.

Station ID	Date	Flow	Unit	Comments
STC-01	10/8/2009	1.80	cfs	
STC-01	10/20/2009	1.77	cfs	
STC-01	11/5/2009	1.64	cfs	
STC-01	11/19/2009	2.87	cfs	
STC-01	12/3/2009	2.32	cfs	
STC-01	12/17/2009	2.39	cfs	
STC-01	12/30/2009	3.62	cfs	
STC-01	1/14/2010	2.61	cfs	
STC-01	1/28/2010	4.65	cfs	
STC-01	2/11/2010	5.14	cfs	
STC-01	2/25/2010	3.70	cfs	
STC-01	3/11/2010	3.37	cfs	
STC-01	3/25/2010	3.15	cfs	
STC-01	4/8/2010	1.58	cfs	
STC-01	4/22/2010	2.87	cfs	
STC-01	5/6/2010	1.95	cfs	
STC-01	5/20/2010	2.70	cfs	
STC-01	6/3/2010	0.82	cfs	
STC-01	6/17/2010	0.78	cfs	
STC-01	7/1/2010	0.23	cfs	
STC-01	7/15/2010	0.59	cfs	
STC-01	7/29/2010	0.46	cfs	
STC-01	8/12/2010	0.23	cfs	
STC-01	8/26/2010	0.43	cfs	
STC-01	9/9/2010	1.02	cfs	
STC-01	9/23/2010	1.20	cfs	
STC-01	10/7/2010	1.62	cfs	
STC-01	10/21/2010	1.40	cfs	
STC-01	11/4/2010	1.31	cfs	
STC-01	11/18/2010	1.17	cfs	
STC-01	12/2/2010	2.06	cfs	
STC-01	12/16/2010	3.62	cfs	
STC-01	1/6/2011	3.73	cfs	
STC-01	1/19/2011	2.49	cfs	
STC-01	2/3/2011	3.46	cfs	

Appendix J - Historical Stream Flow Discharge at Surface Water Monitoring Sites in the Beaumont Groundwater Management Zone Item 5.

Station ID	Date	Flow	Unit	Comments
STC-01	2/17/2011	3.46	cfs	
STC-01	3/3/2011	3.90	cfs	
STC-01	3/18/2011	3.25	cfs	
STC-01	3/31/2011	3.02	cfs	
STC-01	4/14/2011	2.79	cfs	
STC-01	4/28/2011	2.70	cfs	
STC-01	5/12/2011	2.30	cfs	
STC-01	5/26/2011	2.72	cfs	
STC-01	7/7/2011	1.00	cfs	
STC-01	10/11/2011	1.55	cfs	
STC-01	10/27/2011	1.23	cfs	
STC-01	11/17/2011	2.01	cfs	
STC-01	11/29/2011	1.52	cfs	
STC-01	12/8/2011	2.19	cfs	
STC-01	12/21/2011	3.67	cfs	
STC-01	1/11/2012	3.26	cfs	
STC-01	1/26/2012	2.84	cfs	
STC-01	2/8/2012	1.85	cfs	
STC-01	2/27/2012	2.83	cfs	
STC-01	3/9/2012	2.00	cfs	
STC-01	3/26/2012	4.17	cfs	
STC-01	4/12/2012	3.07	cfs	
STC-01	4/27/2012	1.58	cfs	
STC-01	5/18/2012	1.30	cfs	
STC-01	5/30/2012	0.92	cfs	
STC-01	6/12/2012	0.29	cfs	
STC-01	6/28/2012	0.38	cfs	
STC-01	7/9/2012	0.77	cfs	
STC-01	7/24/2012	0.51	cfs	
STC-01	8/3/2012	0.28	cfs	
STC-01	8/16/2012	0.24	cfs	
STC-01	9/7/2012	1.18	cfs	
STC-01	9/25/2012	1.11	cfs	
STC-01	10/10/2012	1.23	cfs	
STC-01	10/26/2012	0.80	cfs	

Appendix J - Historical Stream Flow Discharge at Surface Water Monitoring Sites in the Beaumont Groundwater Management Zone Item 5.

Station ID	Date	Flow	Unit	Comments
STC-01	11/7/2012	0.46	cfs	
STC-01	11/15/2012	1.45	cfs	
STC-01	12/6/2012	1.66	cfs	
STC-01	12/14/2012	2.65	cfs	
STC-01	1/3/2013	2.07	cfs	
STC-01	1/14/2013	3.63	cfs	
STC-01	2/1/2013	2.72	cfs	
STC-01	2/21/2013	2.10	cfs	
STC-01	3/5/2013	3.04	cfs	
STC-01	3/20/2013	2.62	cfs	
STC-01	4/4/2013	1.66	cfs	
STC-01	4/18/2013	1.81	cfs	
STC-01	5/7/2013	1.64	cfs	
STC-01	5/21/2013	0.99	cfs	
STC-01	6/7/2013	2.22	cfs	
STC-01	6/27/2013	1.45	cfs	
STC-01	7/10/2013	0.62	cfs	
STC-01	7/26/2013	0.91	cfs	
STC-01	8/9/2013	0.58	cfs	
STC-01	8/28/2013	0.47	cfs	
STC-01	9/13/2013	0.21	cfs	
STC-01	9/26/2013	1.58	cfs	
STC-01	10/8/2013	0.58	cfs	
STC-01	10/23/2013	1.65	cfs	
STC-01	11/8/2013	0.73	cfs	
STC-01	11/20/2013	2.27	cfs	
STC-01	12/9/2013	2.37	cfs	
STC-01	12/24/2013	2.61	cfs	
STC-01	1/10/2014	2.21	cfs	
STC-01	2/10/2014	1.59	cfs	
STC-01	2/26/2014	1.72	cfs	
STC-01	3/6/2014	2.47	cfs	
STC-01	3/20/2014	3.87	cfs	
STC-01	4/4/2014	3.15	cfs	
STC-01	4/17/2014	2.49	cfs	

Appendix J - Historical Stream Flow Discharge at Surface Water Monitoring Sites in the Beaumont Groundwater Management Zone Item 5.

Station ID	Date	Flow	Unit	Comments
STC-01	5/1/2014	1.63	cfs	
STC-01	5/19/2014	2.10	cfs	
STC-01	6/1/2014	3.13	cfs	
STC-01	6/20/2014	1.30	cfs	
STC-01	7/1/2014	1.45	cfs	
STC-01	7/17/2014	1.16	cfs	
STC-01	8/1/2014	1.15	cfs	
STC-01	8/11/2014	0.79	cfs	
STC-01	9/8/2014	1.22	cfs	
STC-01	9/24/2014	0.48	cfs	
STC-01	10/8/2014	2.13	cfs	
STC-01	10/17/2014	2.19	cfs	
STC-01	11/6/2014	1.27	cfs	
STC-01	11/20/2014	1.66	cfs	
STC-01	12/5/2014	6.40	cfs	
STC-01	12/22/2014	3.02	cfs	
STC-01	8/23/2016	2.62	cfs	
STC-01	9/6/2016	1.96	cfs	
STC-01	9/20/2016	2.55	cfs	
STC-01	10/4/2016	2.53	cfs	
STC-01	10/18/2016	3.35	cfs	
STC-01	11/1/2016	3.46	cfs	
STC-01	11/15/2016	3.44	cfs	
STC-01	11/30/2016	5.09	cfs	
STC-01	12/20/2016	3.82	cfs	
STC-01	1/10/2017	4.66	cfs	
STC-01	1/24/2017	12.39	cfs	
STC-01	2/8/2017	8.80	cfs	
STC-01	2/21/2017	5.42	cfs	
STC-01	3/9/2017	7.07	cfs	
STC-01	3/24/2017	5.96	cfs	
STC-01	4/4/2017	5.01	cfs	
STC-01	4/18/2017	4.14	cfs	
STC-01	5/2/2017	3.34	cfs	
STC-01	5/16/2017	4.17	cfs	

Appendix J - Historical Stream Flow Discharge at Surface Water Monitoring Sites in the Beaumont Groundwater Management Zone Item 5.

Station ID	Date	Flow	Unit	Comments
STC-01	5/30/2017	3.54	cfs	
STC-01	6/13/2017	4.21	cfs	
STC-01	6/27/2017	2.44	cfs	
STC-01	7/13/2017	1.17	cfs	
STC-01	8/1/2017	1.40	cfs	
STC-01	8/22/2017	1.53	cfs	
STC-01	9/12/2017	1.75	cfs	
STC-01	9/19/2017	3.16	cfs	
STC-01	9/27/2017	3.50	cfs	
STC-01	10/11/2017	1.78	cfs	
STC-01	10/27/2017	1.69	cfs	
STC-01	11/6/2017	2.96	cfs	
STC-01	11/20/2017	5.00	cfs	
STC-01	12/5/2017	2.88	cfs	
STC-01	12/21/2017	4.23	cfs	
STC-01	1/12/2018	6.02	cfs	
STC-01	2/2/2018	4.49	cfs	
STC-01	2/15/2018	3.28	cfs	
STC-01	3/5/2018	3.79	cfs	
STC-01	3/29/2018	2.92	cfs	
STC-01	4/12/2018	3.75	cfs	
STC-01	4/26/2018	2.59	cfs	
STC-01	5/8/2018	2.88	cfs	
STC-01	5/25/2018	3.59	cfs	
STC-01	6/8/2018	2.55	cfs	
STC-01	6/27/2018	2.69	cfs	
STC-01	7/10/2018	3.45	cfs	
STC-01	7/17/2018	2.90	cfs	
STC-01	7/31/2018	2.10	cfs	
STC-01	8/17/2018	3.00	cfs	
STC-01	8/29/2018	2.03	cfs	
STC-01	9/14/2018	1.92	cfs	
STC-01	9/25/2018	2.72	cfs	
STC-01	10/12/2018	2.07	cfs	
STC-01	10/24/2018	2.16	cfs	
STC-01	11/12/2018	2.63	cfs	
STC-01	11/24/2018	3.07	cfs	
STC-01	11/30/2018	9.60	cfs	
STC-01	12/21/2018	4.47	cfs	

Appendix J - Historical Stream Flow Discharge at Surface Water Monitoring Sites in the Beaumont Groundwater Management Zone Item 5.

Station ID	Date	Flow	Unit	Comments
STC-01	1/3/2019	4.40	cfs	
STC-01	1/18/2019	12.03	cfs	
STC-01	2/7/2019	7.60	cfs	
STC-01	2/18/2019	8.95	cfs	
STC-01	3/4/2019	6.13	cfs	
STC-01	3/18/2019	4.89	cfs	
STC-01	4/4/2019	5.92	cfs	
STC-01	4/24/2019	6.10	cfs	
STC-01	5/7/2019	4.66	cfs	
STC-01	5/25/2019	6.24	cfs	
STC-01	6/6/2019	4.63	cfs	
STC-01	6/20/2019	3.76	cfs	
STC-01	7/3/2019	2.78	cfs	
STC-01	7/16/2019	1.66	cfs	
STC-01	8/2/2019	1.89	cfs	
STC-01	8/15/2019	2.65	cfs	
STC-01	8/29/2019	3.31	cfs	
STC-01	9/15/2019	3.19	cfs	
STC-01	10/4/2019	2.78	cfs	
STC-01	10/14/2019	2.90	cfs	
STC-01	10/27/2019	2.89	cfs	
STC-01	11/8/2019	2.53	cfs	
STC-01	11/19/2019	2.78	cfs	
STC-01	11/29/2019	14.57	cfs	
STC-01	12/17/2019	4.52	cfs	
STC-01	12/30/2019	5.75	cfs	
STC-01	1/17/2020	6.44	cfs	
STC-01	2/5/2020	4.10	cfs	
STC-01	2/13/2020	4.85	cfs	
STC-01	3/2/2020	6.00	cfs	
STC-01	3/14/2020	16.08	cfs	
STC-01	4/4/2020	6.23	cfs	
STC-01	4/18/2020	8.73	cfs	
STC-01	4/28/2020	5.04	cfs	
STC-01	5/18/2020	4.17	cfs	
STC-01	6/7/2020	4.28	cfs	
STC-01	6/18/2020	3.58	cfs	
STC-01	6/27/2020	2.51	cfs	
STC-01	7/18/2020	3.78	cfs	
STC-01	7/28/2020	1.33	cfs	
STC-01	8/16/2020	3.80	cfs	
STC-01	8/29/2020	2.38	cfs	
STC-01	9/12/2020	2.34	cfs	

Appendix J - Historical Stream Flow Discharge at Surface Water Monitoring Sites in the Beaumont Groundwater Management Zone

Item 5.

Station ID	Date	Flow	Unit	Comments
STC-01	9/22/2020	3.47	cfs	
STC-01	10/10/2020	5.04	cfs	
STC-01	11/3/2020	1.65	cfs	
STC-01	11/10/2020	3.01	cfs	
STC-01	11/25/2020	4.69	cfs	
STC-01	12/10/2020	2.62	cfs	
STC-01	12/23/2020	2.30	cfs	

APPENDIX K

**Field Forms and Field Parameters for Surface Water
Monitoring in the Beaumont Groundwater Management Zone
in 2020**

Site: CC-01

Weather Flow Visuals

Date: 1/17/20

Conditions: _____

Total width of creek 7.0

Sum of segment's widths 7.0

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1	0.7	1.077	0.7539	
	1	0.6	1.191	0.7146	
	1	0.7	1.376	0.9632	
	1	0.7	1.261	0.8877	
	1	0.8	1.321	1.0568	
	1	0.6	0.848	0.5088	
	1	0.9	1.396	1.2567	
	1	0.7	1.299	1.0789	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
16:30	17.9	7.92	834	5.27	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: CC-03

Weather Flow Visuals

Date: 1/17/20

Conditions: _____

Total width of creek 4

Sum of segment's widths 4

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1	0.9	1.396	1.2564	
	1	1.1	1.799	1.9789	
	1	1.1	2.218	2.4398	
	1	0.5	1.187	0.592	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
16:00	16.1	8.26	755	7.99	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: STC-01

Weather Flow Visuals

Date: 1/17/20

Conditions: _____

Total width of creek 4.4

Sum of segment's widths 4.4

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1.1	0.6	3.789	2.302	
	1.1	0.6	3.537	2.337	
	1.1	0.7	3.077	1.352	
	1.1	0.2	2.028	0.716	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
15:00	13	8.01	625	8.61	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: STC-02

Weather Flow Visuals

Date: 1/17/20

Conditions: _____

Total width of creek _____

Sum of segment's widths _____

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
15:30	9.0	7.88	633	8.33	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Clinical Lab of San Bernardino, Inc.

Chain of Custody

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

WO _____

Item 5.

Client		City of Beaumont		Destination Laboratory													Analysis Requested																Comments	Turn Around Time (TAT)
Address:		550 E. 6th St.		<input checked="" type="checkbox"/> Clinical Grand Terrace / ELAP 1088 <input type="checkbox"/> Clinical Lompoc / ELAP 1678 <input type="checkbox"/> Other:																														
Client Contact:		Amer Jaker																																
Phone No.:		951-769-8520 FAX No.: 951-769-8526																																
System No.:																																		
Project:		Max Benefits - Beaumont GMZ																																
Sampled By:		<i>C. Hunter</i>																																
Comments:																																		
Email results to: AJakher@ci.beaumont.ca.us, ckhunter@dudek.com, sstuart@dudek.com																																		
Date	Time	Sample Identification	Container ID	Matrix	Sample Type	No. of Preserved Cont.												Total Containers	Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO ₃ , CO ₃ , and OH)	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)					
						Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC																			
1/17/20	16:30	CC-01	1	SW		X										2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		10	
	16:00	CC-03	3	SW		X										2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		10	
	15:00	STC-01	ST1	SW		X										2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		10	
	15:30	STC-02	ST2	SW		X										2	X	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		10	

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
<i>C. Hunter</i>	C. Hunter / Dudek	1/17/20 17:00		

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C
 Shipped Via: Fed Ex Golden State Overnight UPS OnTrac USPS Other _____
 Condition: On Wet Ice On Blu Ice Intact Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____
 Receipt Comments: _____ Clinical Lab Receipt Temp.: _____ °C

DUDEK

FIELD CALIBRATION RECORD

Project Name: City of Beaumont
 Project Number: 11110.2020
 Field Crew: C. Hunter
 Signature: C. Hunter

Date of Field Calibration: 1/17/20
 Field Location: Beaumont area, CA
 Weather Conditions: _____
 Parameter Sensor: _____
 Instr. Type: YSI
 Model: 556
 Temp (using thermometer): _____ Temp (using meter): _____

Parameters / Field Measurements							General Description of Standards
	pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (µS/cm)	Percent Error	calibration solution, supplier, exp. Date
Standard Solution Values	1	4.0	718.2		1307		
	2	7.0					
	3	10.0					
Pre-calibration Readings for Each Standard	1	4.13	718.4		1285		
	2	7.06					
	3	10.04					
Post-calibration Readings for Each Standard	1	4.02	718.4		1305		
	2	7.00					
	3	10.01					

Site: CC-01

Weather Flow Visuals

Date: 2/5/20

Conditions: _____

Total width of creek 6.6

Sum of segment's widths 6.6

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1.1	0.6	1.015	0.669	
	1.1	0.7	1.343	1.037	
	1.1	0.6	1.376	0.908	
	1.1	0.6	1.498	0.988	
	1.1	0.6	1.280	0.844	
	1.1	0.5	0.737	0.405	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
15:15	16.9	8.19	801	7.31	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: CC-03

Weather Flow Visuals

Date: 2/5/20

Conditions: _____

Total width of creek 4.0

Sum of segment's widths 4.0

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1	0.9	1.450	1.305	
	1	0.8	1.664	1.331	
	1	1.0	2.147	2.147	
	1	0.7	1.088	0.735	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
14:15	15.7	8.40	815	8.29	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
 Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: STC-01

Weather Flow Visuals

Date: 2/5/20

Conditions: _____

Total width of creek 4

Sum of segment's widths 4

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1	0.6	2.802	1.651	
	1	0.4	2.672	1.068	
	1	0.3	2.567	0.767	
	1	0.3	1.924	0.577	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
13:30	11.5	8.08	882	9.53	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft

3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Clinical Lab of San Bernardino, Inc.

Chain of Custody

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Item 5.

WO _____

Client		City of Beaumont		Destination Laboratory										Analysis Requested										Comments	Turn Around Time (TAT)					
Address:		550 E. 6th St. Beaumont, CA. 92223		<input checked="" type="checkbox"/> Clinical Grand Terrace / ELAP 1088 <input type="checkbox"/> Clinical Lompoc / ELAP 1678 <input type="checkbox"/> Other:										Total Dissolved Solids (SM 2540C) Nitrate-N (EPA 300.0) Nitrite-N (EPA 300.0) Ammonia-N (EPA 350.1) Alkalinity (inc. HCO ₃ , CO ₃ , and OH) Ca, Mg, K, Na (EPA 200.7) Sulfate (EPA 300.0) Specific Conductance (SM 2510B) PH (SM 4500H+B) Chloride (EPA 300.0) Fluoride (EPA 300.0)												Comments	Turn Around Time (TAT)			
Client Contact:		Amer Jaker		No. of Preserved Cont.																				Comments	Turn Around Time (TAT)					
Phone No.:		951-769-8520 FAX No.: 951-769-8526		Total Containers																						Comments	Turn Around Time (TAT)			
System No.:				Unpreserved																				Comments	Turn Around Time (TAT)					
Project:		Max Benefits - Beaumont GMZ		Na2S2O3																						Comments	Turn Around Time (TAT)			
Sampled By:		C Hunter		NH4Cl																				Comments	Turn Around Time (TAT)					
Comments:				G6H8O6																						Comments	Turn Around Time (TAT)			
Email results to:		AJakher@ci.beaumont.ca.us, ckhunter@dudek.com, sstuart@dudek.com		HNO3																				Comments	Turn Around Time (TAT)					
				HCl																						Comments	Turn Around Time (TAT)			
				NaOH																				Comments	Turn Around Time (TAT)					
				ZnCl2																						Comments	Turn Around Time (TAT)			
				Na2SO3																				Comments	Turn Around Time (TAT)					
				ChlorAC																						Comments	Turn Around Time (TAT)			
				Total Containers																				Comments	Turn Around Time (TAT)					
Date	Time	Sample Identification		Container ID	Matrix	Sample Type	Unpreserved	Na2S2O3	NH4Cl	G6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnCl2	ChlorAC	Total Containers	Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO ₃ , CO ₃ , and OH)	Ca, Mg, K, Na (EPA 200.7)			Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	PH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)
2/5/20	15:15	CC-01		1	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
	14:25	CC-03		3	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
	13:30	STC-01		STC	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
	C. Hunter / Dudek	2/5/20 15:40		

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C

Shipped Via: Fed Ex Golden State Overnight UPS OnTrac USPS Other _____

Condition: On Wet Ice On Blu Ice Intact Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____

Receipt Comments: _____ Clinical Lab Receipt Temp.: _____ °C

DUDEK

FIELD CALIBRATION RECORD

Project Name: City of Beaumont

Date of Field Calibration: 2/5/20

Project Number: 11110.2020

Field Location: Beaumont area, CA

Field Crew: C. Hunter

Weather Conditions: _____

Parameter Sensor: _____

Instr. Type: YSI

Signature: 

Model: 556

Temp (using thermometer): 22.7 Temp (using meter): 23.3

Parameters / Field Measurements							General Description of Standards
	pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (µS/cm)	Percent Error	calibration solution, supplier, exp. Date
Standard Solution Values	1	4.0	713.8		1314		
	2	7.0					
	3	10.0					
Pre-calibration Readings for Each Standard	1	4.02	713.2		1387		
	2	6.97					
	3	10.01					
Post-calibration Readings for Each Standard	1	4.00	713.9		1312		
	2	6.98					
	3	10.00					

Site: CC-01

Weather Flow Visuals

Date: 2/13/20

Conditions: _____

Total width of creek 6.6

Sum of segment's widths 6.6

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1.1	0.5	1.136	0.624	
	1.1	0.5	1.424	0.783	
	1.1	0.5	1.585	0.871	
	1.1	0.6	1.424	0.939	
	1.1	0.6	1.520	1.003	
	1.1	0.5	1.087	0.595	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
14:30	18.2	8.13	820	5.99	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: CC-03

Weather Flow Visuals

Date: 2/13/20

Conditions: _____

Total width of creek 4

Sum of segment's widths 4

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1	0.8	1.640	1.312	
	1	0.7	2.048	1.433	
	1	0.9	2.336	2.102	
	1	0.7	0.982	0.392	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
14:00	17.3	8.38	801	7.51	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: STC-01

Weather Flow Visuals

Date: 2/13/20

Conditions: _____

Total width of creek 4

Sum of segment's widths 4

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1	0.6	2.528	1.516	
	1	0.6	2.867	1.718	
	1	0.7	2.816	1.126	
	1	0.7	2.732	0.986	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
13:15	14.7	8.16	767	8.61	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

DUDEK

FIELD CALIBRATION RECORD

Project Name: City of Beaumont

Date of Field Calibration: 2/13/20

Project Number: 11110.2020

Field Location: Beaumont area, CA

Field Crew: C Hunter

Weather Conditions: _____

Parameter Sensor: _____

Instr. Type: YSI

Signature: C. Hunter

Model: 556

Temp (using thermometer): 22.5

Temp (using meter): 23.6

Parameters / Field Measurements							General Description of Standards
	pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (uS/cm)	Percent Error	calibration solution, supplier, exp. Date
Standard Solution Values	1	4.0		711.2	1272		
	2	7.0					
	3	10.0					
Pre-calibration Readings for Each Standard	1	3.79		712.4	1276		
	2	6.96					
	3	10.10					
Post-calibration Readings for Each Standard	1	4.04		711.4	1295		
	2	6.99					
	3	9.99					

Site: CC-01

Weather Flow Visuals

Date: 3/2/20

Conditions: _____

Total width of creek 6.6

Sum of segment's widths 6.6

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1.1	0.5	1.505	0.827	
	1.1	0.5	1.856	1.020	
	1.1	0.5	1.799	0.989	
	1.1	0.6	1.695	1.118	
	1.1	0.6	1.695	1.118	
	1.1	0.5	1.088	0.598	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
12:45	18.9	8.14	818	6.85	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: CC-03

Weather Flow Visuals

Date: 3/2/20

Conditions: _____

Total width of creek 4

Sum of segment's widths 4

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1	0.8	1.640	1.312	
	1	0.7	2.078	1.473	
	1	0.9	2.336	2.102	
	1	0.4	0.982	0.392	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
12:15	18.7	8.36	796	6.85	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: STC-01

Weather Flow Visuals

Date: 3/2/20

Conditions: _____

Total width of creek 6

Sum of segment's widths 6

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1	0.2	0.634	0.126	
	1	0.6	2.760	1.656	
	1	0.5	3.393	1.696	
	1	0.7	2.997	1.197	
	1	0.3	3.104	0.931	
	1	0.2	1.972	0.388	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
11:15	14.1	8.16	841	7.67	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: STC-02

Weather Flow Visuals

Date: 3/2/20

Conditions: _____

Total width of creek _____

Sum of segment's widths _____

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
11:15	10.1	7.98	567	9.39	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft

3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F

Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F

Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Clinical Lab of San Bernardino, Inc.

Chain of Custody

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

WO _____ Item 5.

Client		City of Beaumont		Destination Laboratory										Analysis Requested										Comments	Turn Around Time (TAT)					
Address:		550 E. 6th St. Beaumont, CA. 92223		<input checked="" type="checkbox"/> Clinical Grand Terrace / ELAP 1088 <input type="checkbox"/> Clinical Lompoc / ELAP 1678 <input type="checkbox"/> Other:										Total Dissolved Solids (SM 2540C) Nitrate-N (EPA 300.0) Nitrite-N (EPA 300.0) Ammonia-N (EPA 350.1) Alkalinity (inc. HCO ₃ , CO ₃ , and OH) Ca, Mg, K, Na (EPA 200.7) Sulfate (EPA 300.0) Specific Conductance (SM 2510B) pH (SM 4500H+B) Chloride (EPA 300.0) Fluoride (EPA 300.0)																
Client Contact:		Amer Jaker		No. of Preserved Cont.																										
Phone No.:		951-769-8520 FAX No.: 951-769-8526		Total Containers																										
System No.:				Matrix																										
Project:		Max Benefits - Beaumont GMZ		Sample Type																										
Sampled By:		C Hunter		Unpreserved																										
Comments:				Na2S2O3																										
Email results to:		Ajaker@cl.beaumont.ca.us, ckhunter@dudek.com, sstuart@dudek.com		NH4Cl																										
				C6H8O6																										
				HNO3																										
				HCl																										
				NaOH																										
				Na2SO3																										
				ChlorAC																										
				ZnCl2/604																										
				Total Containers																										
Date	Time	Sample Identification		Container ID	Matrix	Sample Type	Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnCl2/604	ChlorAC	Total Containers	Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO ₃ , CO ₃ , and OH)	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Comments	Turn Around Time (TAT)
3/2/20	12:45	CC-01		1	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
	12:15	CC-03		3	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
	11:45	STC-01		51	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
	11:15	STC-02		52	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
	C. Hunter / Dudek	3/02/20		

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C

Shipped Via: Fed Ex Golden State Overnight UPS OnTrac USPS Other _____

Condition: On Wet Ice On Blu Ice Intact Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____

Receipt Comments: _____ Clinical Lab Receipt Temp.: _____ °C

DUDEK

FIELD CALIBRATION RECORD

Project Name: City of Beaumont

Date of Field Calibration: 3/2/20

Project Number: 11110.2020

Field Location: Beaumont area, CA

Field Crew: C Hunter

Weather Conditions: _____

Parameter Sensor: _____

Instr. Type: YSI

Signature: 

Model: 556

Temp (using thermometer): 22.7 Temp (using meter): 23.7

Parameters / Field Measurements							General Description of Standards
	pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (µS/cm)	Percent Error	calibration solution, supplier, exp. Date
Standard Solution Values	1	4.0	70.3		1286		
	2	7.0					
	3	10.0					
Pre-calibration Readings for Each Standard	1	4.19	712.8		1314		
	2	6.93					
	3	9.82					
Post-calibration Readings for Each Standard	1	4.02	712.3		1288		
	2	7.00					
	3	10.01					

Site: CC-01

Weather Flow Visuals

Date: 3/14/20

Conditions: _____

Total width of creek 6.6

Sum of segment's widths 6.6

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1.1	0.7	1.197	0.921	
	1.1	0.7	1.261	0.971	
	1.1	0.6	1.616	1.066	
	1.1	0.6	1.443	0.952	
	1.1	0.5	1.082	0.895	
	1.1	0.6	0.652	0.430	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
14:45	18.6	8.16	754	7.22	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow
Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
 3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: CC-03

Weather Flow Visuals

Date: 3/4/20

Conditions: _____

Total width of creek 3

Sum of segment's widths 3

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1	0.6	2.708	1.444	
	1	1.0	3.056	3.056	
	1	0.9	2.672	2.404	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
17:15	16.7	8.27	607	7.98	Y

Conditions Key:
Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow
Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
 3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud
Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: STC-01

Weather Flow Visuals

Date: 3/14/20

Conditions: _____

Total width of creek 6

Sum of segment's widths 6

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1	0.4	0.703	0.281	
	1	0.8	2.931	2.347	
	1	0.9	3.681	3.312	
	1	1.3	3.393	4.410	
	1	1.6	3.313	5.428	
	1	0.2	0.748	0.299	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
13:15	13.6	8.08	602	8.79	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: STC-02

Weather Flow Visuals

Date: 3/14/20

Conditions: _____

Total width of creek _____

Sum of segment's widths _____

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
13:45	14.3	8.18	421	8.27	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Clinical Lab of San Bernardino, Inc.

Chain of Custody

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

WO _____ Item 5.

Client		City of Beaumont		Destination Laboratory										Analysis Requested										Comments	Turn Around Time (TAT)						
Address:		550 E. 6th St.		<input checked="" type="checkbox"/> Clinical Grand Terrace / ELAP 1088 <input type="checkbox"/> Clinical Lompoc / ELAP 1678 <input type="checkbox"/> Other:										Total Dissolved Solids (SM 2540C) Nitrate-N (EPA 300.0) Nitrite-N (EPA 300.0) Ammonia-N (EPA 350.1) Alkalinity (inc. HCO ₃ , CO ₃ , and OH) Ca, Mg, K, Na (EPA 200.7) Sulfate (EPA 300.0) Specific Conductance (SM 2510B) pH (SM 4500H+B) Chloride (EPA 300.0) Fluoride (EPA 300.0)																	
Client Contact:		Amer Jaker		No. of Preserved Cont																											
Phone No.:		951-769-8520 FAX No.: 951-769-8526		Total Containers																											
System No.:				Matrix																											
Project:		Max Benefits - Beaumont GMZ		Sample Type																											
Sampled By:		C Hunter		Unpreserved																											
Comments:				Na2S2O3																											
Email results to:		Ajakher@ci.beaumont.ca.us, ckhunter@dudek.com, sstuart@dudek.com		NH4Cl																											
				C6H8O6																											
				HNO3																											
				HCl																											
				NaOH																											
				Na2SO3																											
				ZnCl2																											
				ChlorAC																											
				Total Containers																											
Date	Time	Sample Identification		Container ID	Matrix	Sample Type	Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnCl2	ChlorAC	Total Containers	Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO ₃ , CO ₃ , and OH)	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Comments	Turn Around Time (TAT)	
3/14/20	17:45	CC-01		1	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10	
	17:15	CC-03		3	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10	
	13:45	STC-01		STC	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10	
	13:15	STC-02		52	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10	
Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush																															
Relinquished By (Sign)				Print Name / Company				Date / Time				Received By (Sign)				Print Name / Company															
				C. Hunter / Dudek				3/14/20 15:00																							
(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C Shipped Via: <input type="checkbox"/> Fed Ex <input type="checkbox"/> Golden State Overnight <input type="checkbox"/> UPS <input type="checkbox"/> OnTrac <input type="checkbox"/> USPS <input type="checkbox"/> Other _____ Condition: <input type="checkbox"/> On Wet Ice <input type="checkbox"/> On Blu Ice <input type="checkbox"/> Intact <input type="checkbox"/> Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____ Receipt Comments: _____ Clinical Lab Receipt Temp.: _____ °C																															

DUDEK

FIELD CALIBRATION RECORD

Project Name: City of Beaumont

Date of Field Calibration: 3/14/20

Project Number: 11110.2020

Field Location: Beaumont area, CA

Field Crew: C. Hunter

Weather Conditions: _____

Parameter Sensor: _____

Instr. Type: YSI

Signature: 

Model: 556

Temp (using thermometer): 22.7 Temp (using meter): 23.7

Parameters / Field Measurements							General Description of Standards
	pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (µS/cm)	Percent Error	calibration solution, supplier, exp. Date
Standard Solution Values	1	4.0	712.3		1338		
	2	7.0					
	3	10.0					
Pre-calibration Readings for Each Standard	1	3.93	711.7		1341		
	2	7.03					
	3	10.05					
Post-calibration Readings for Each Standard	1	3.96	712.1		1312		
	2	7.03					
	3	9.97					

Site: CC-01

Weather Flow Visuals

Date: 4/4/20

Conditions: _____

Total width of creek 6

Sum of segment's widths 6

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1	0.6	1.585	0.957	
	1	0.6	1.302	0.781	
	1	0.6	1.600	0.960	
	1	0.5	1.640	0.820	
	1	0.4	1.396	0.558	
	1	0.5	0.687	0.342	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
15:00	21.5	8.27	748	6.60	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: CC-03

Weather Flow Visuals

Date: 4/4/20

Conditions: _____

Total width of creek 7

Sum of segment's widths 7

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1	0.6	1.856	1.113	
	1	0.6	2.134	1.280	
	1	0.8	2.336	1.868	
	1	0.6	1.952	1.171	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
13:15	20.6	8.77	773	6.76	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: STC-01

Weather Flow Visuals

Date: 4/4/20

Conditions: _____

Total width of creek 4

Sum of segment's widths 4

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1	0.5	3.407	1.703	
	1	0.4	3.517	1.407	
	1	0.4	3.806	1.522	
	1	0.5	3.201	1.600	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
12:15	15.7	8.11	867	7.81	

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

DUDEK

FIELD CALIBRATION RECORD

Project Name: City of Beaumont

Date of Field Calibration: 4/4/20

Project Number: 11110.2020

Field Location: Beaumont area, CA

Field Crew: C Hunter

Weather Conditions: _____

Parameter Sensor: _____

Instr. Type: YSI

Signature: *C. Hunter*

Model: 556

Temp (using thermometer): 22.5

Temp (using meter): 23.4

Parameters / Field Measurements							General Description of Standards
	pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (uS/cm)	Percent Error	calibration solution, supplier, exp. Date
Standard Solution Values	1	4.0	712.8		1309		
	2	7.0					
	3	10.0					
Pre-calibration Readings for Each Standard	1	3.97	715.7		1292		
	2	6.90					
	3	10.06					
Post-calibration Readings for Each Standard	1	4.03	711.9		1336		
	2	7.00					
	3	9.98					

Site: CC-01

Weather Flow Visuals

Date: 4/18/20

Conditions: _____

Total width of creek 6

Sum of segment's widths 6

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1	0.7	1.261	0.882	
	1	0.9	1.040	0.936	
	1	0.8	1.255	1.004	
	1	0.8	1.443	1.157	
	1	0.7	1.376	0.963	
	1	0.6	0.623	0.373	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
15:30	19.8	8.15	821	6.98	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: CC-03

Weather Flow Visuals

Date: 4/18/20

Conditions: _____

Total width of creek 5

Sum of segment's widths 5

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1	0.7	1.088	0.761	
	1	1.0	1.512	1.512	
	1	0.6	2.576	1.545	
	1	0.5	2.147	1.072	
	1	0.3	1.376	0.412	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
14:45	18.0	8.32	761	8.05	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: STC-01

Weather Flow Visuals

Date: 4/18/20

Conditions: _____

Total width of creek 5

Sum of segment's widths 5

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1	3	3.137	0.971	
	1	4	4.065	1.626	
	1	3	4.497	1.349	
	1	4	3.806	1.522	
	1	5	3.441	1.720	
	1	5	3.137	1.568	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
14:00	15.1	8.21	904	9.76	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Clinical Lab of San Bernardino, Inc.

Chain of Custody

WO _____

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client		City of Beaumont		Destination Laboratory		Analysis Requested												Comments	Turn Around Time (TAT)									
Address:	550 E. 6th St. Beaumont, CA. 92223	<input checked="" type="checkbox"/> Clinical Grand Terrace / ELAP 1088	<input type="checkbox"/> Clinical Lompoc / ELAP 1678	[] Other:		Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO ₃ , CO ₃ , and OH)	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)												
Client Contact:	Amer Jaker	No. of Preserved Cont																										
Phone No.:	951-769-8520 FAX No.: 951-769-8526	Container ID	Matrix	Sample Type	Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnCl2H6O4	ChloroAC														
System No.:															Date	Time	Sample Identification											
Project:	Max Benefits - Beaumont GMZ																											
Sampled By:	C. Hunter																											
Comments:																												
Email results to: AJaker@cl.beaumont.ca.us, ckhunter@dudek.com, sstuart@dudek.com																												
4/18/20	15:30	CC-01	1	SW	X										X	X	X	X	X	X	X	X	X	X	X	X		10
1	14:45	CC-03	3	SW	X										X	X	X	X	X	X	X	X	X	X	X	X	X	10
1	14:00	STC-01	STC	SW	X										X	X	X	X	X	X	X	X	X	X	X	X	X	10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
	C. Hunter / Dudek	4/18/20 15:40		

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C

Shipped Via: Fed Ex Golden State Overnight UPS OnTrac USPS Other _____

Condition: On Wet Ice On Blu Ice Intact Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____

Receipt Comments: _____ Clinical Lab Receipt Temp.: _____ °C

DUDEK **FIELD CALIBRATION RECORD**

Project Name: City of Beaumont Date of Field Calibration: 4/18/20

Project Number: 11110.2020 Field Location: Beaumont area, CA

Field Crew: C. Hunter Weather Conditions: _____

Parameter Sensor: _____

Instr. Type: YSI

Model: 556

Signature: [Handwritten Signature] Temp (using thermometer): 22.2 Temp (using meter): 23.3

Parameters / Field Measurements							General Description of Standards
	pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (µS/cm)	Percent Error	calibration solution, supplier, exp. Date
Standard Solution Values	1	4.0	712.6		1357		
	2	7.0					
	3	10.0					
Pre-calibration Readings for Each Standard	1	4.14	711.8		1244		
	2	7.13					
	3	9.90					
Post-calibration Readings for Each Standard	1	3.99	711.9		1307		
	2	7.03					
	3	9.97					

Site: CC-01

Weather Flow Visuals

Date: 4/28/20

Conditions: _____

Total width of creek 6

Sum of segment's widths 6

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1	0.7	1.280	0.896	
	1	0.7	1.220	0.854	
	1	0.8	1.156	0.925	
	1	0.8	1.356	1.085	
	1	0.7	1.077	0.754	
	1	0.7	0.792	0.554	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
13:30	25.3	8.13	811	5.20	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft

3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F

Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F

Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: CC-03

Weather Flow Visuals

Date: 4/28/20

Conditions: _____

Total width of creek 5

Sum of segment's widths 5

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1	0.2	0.973	0.194	
	1	0.5	1.907	0.952	
	1	0.6	1.973	1.183	
	1	0.7	2.000	1.400	
	1	0.6	1.790	1.074	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
12:45	25.2	8.42	784	6.78	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft

3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F

Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F

Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: STC-01

Weather Flow Visuals

Date: 4/28/20

Conditions: _____

Total width of creek 4.4

Sum of segment's widths 4.4

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1.1	0.4	2.912	1.281	
	1.1	0.4	3.633	1.598	
	1.1	0.3	2.912	0.960	
	1.1	0.5	2.181	1.199	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
12:00	22.9	8.23	897	5.84	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Clinical Lab of San Bernardino, Inc.

Chain of Custody

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Item 5.

WO _____

Client		City of Beaumont		Destination Laboratory										Analysis Requested										Comments	Turn Around Time (TAT)						
Address:		550 E. 6th St. Beaumont, CA. 92223		<input checked="" type="checkbox"/> Clinical Grand Terrace / ELAP 1088 <input type="checkbox"/> Clinical Lompoc / ELAP 1678 <input type="checkbox"/> Other:										Total Dissolved Solids (SM 2540C) Nitrite-N (EPA 300.0) Nitrate-N (EPA 300.0) Ammonia-N (EPA 350.1) Alkalinity (inc. HCO ₃ , CO ₃ , and OH) Ca, Mg, K, Na (EPA 200.7) Sulfate (EPA 300.0) Specific Conductance (SM 2510B) PH (SM 4500H+B) Chloride (EPA 300.0) Fluoride (EPA 300.0)																	
Client Contact:		Amer Jaker		No. of Preserved Cont																											
Phone No.:		951-769-8520 FAX No.: 951-769-8526		Matrix																											
System No.:				Sample Type																											
Project:		Max Benefits - Beaumont GMZ		Unpreserved																											
Sampled By:		C Hunter		Chloride																											
Comments:				Zn/Cd/Hg/P																											
Email results to:		Ajakher@cl.beaumont.ca.us, ckhunter@dudek.com, sstuart@dudek.com		Na2SO3																											
Date	Time	Sample Identification		Container ID	Matrix	Sample Type	Unpreserved	Na2SO3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	Zn/Cd/Hg/P	Chloride	Total Containers	Total Dissolved Solids (SM 2540C)	Nitrite-N (EPA 300.0)	Nitrate-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO ₃ , CO ₃ , and OH)	Ca, Mg, K, Na (EPA 200.7)			Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	PH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Comments
4/28/20	13:30	CC-01	1	SW	X												2	X	X	X	X	X	X	X	X	X	X	X	X		10
	12:45	CC-03	3	SW	X												2	X	X	X	X	X	X	X	X	X	X	X	X		10
	12:00	STC-01	STC	SW	X												2	X	X	X	X	X	X	X	X	X	X	X		10	

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other
 Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
	C. Hunter / Dudek	4/28/20 14:00		

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C
 Shipped Via: Fed Ex Golden State Overnight UPS OnTrac USPS Other _____
 Condition: On Wet Ice On Blu Ice Intact Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____
 Receipt Comments: _____ Clinical Lab Receipt Temp.: _____ °C

DUDEK

FIELD CALIBRATION RECORD

Project Name: City of Beaumont

Date of Field Calibration: 4/28/20

Project Number: 11110.2020

Field Location: Beaumont area, CA

Field Crew: C. Hunter

Weather Conditions: _____

Parameter Sensor: _____

Instr. Type: YSI

Signature: Cook

Model: 556

Temp (using thermometer): 22.1 Temp (using meter): 23.1

Parameters / Field Measurements							General Description of Standards
	pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (uS/cm)	Percent Error	calibration solution, supplier, exp. Date
Standard Solution Values	1	4.0		713.4		1286	
	2	7.0					
	3	10.0					
Pre-calibration Readings for Each Standard	1	4.02		713.2		1256	
	2	7.00					
	3	9.80					
Post-calibration Readings for Each Standard	1	4.00		713.2		1310	
	2	7.00					
	3	9.97					

Site: CC-01

Weather Flow Visuals

Date: 5/18/20

Conditions: _____

Total width of creek 5

Sum of segment's widths 5

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1	0.7	0.439	0.3073	
	1	0.8	1.232	0.985	
	1	0.9	1.732	1.558	
	1	1.1	1.325	1.460	
	1	1.1	1.184	1.302	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
18:45	23.8	8.49	737	6.74	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: CC-03

Weather Flow Visuals

Date: 5/18/20

Conditions: _____

Total width of creek 4

Sum of segment's widths 4

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1	0.8	1.952	1.561	
	1	0.9	2.288	2.059	
	1	0.9	2.361	2.127	
	1	0.6	0.380	0.228	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
18:20	22.6	8.55	743	7.39	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: STC-01

Weather Flow Visuals

Date: 5/18/20

Conditions: _____

Total width of creek 4.4

Sum of segment's widths 4.4

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1.1	0.4	3.633	1.598	
	1.1	0.3	3.525	1.262	
	2.1	0.3	3.245	1.072	
	1.1	0.2	1.057	0.232	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
13:30	21.7	8.23	776	8.16	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Clinical Lab of San Bernardino, Inc.

Chain of Custody

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Item 5.

WO _____

Client		City of Beaumont		Destination Laboratory		Analysis Requested										Comments	Turn Around Time (TAT)		
Address:		550 E. 6th St. Beaumont, CA. 92223		<input checked="" type="checkbox"/> Clinical Grand Terrace / ELAP 1088 <input type="checkbox"/> Clinical Lompoc / ELAP 1678 <input type="checkbox"/> Other:		Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO ₃ , CO ₃ , and OH)	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)			Fluoride (EPA 300.0)	
Client Contact:		Amer Jaker																	
Phone No.:		951-769-8520		FAX No.: 951-769-8526															
System No.:				No. of Preserved Cont		Container ID	Matrix	Sample Type	Unpreserved	Na ₂ S ₂ O ₃	NH ₄ Cl	C ₆ H ₈ O ₆	KNO ₃	HCl	NaOH	Na ₂ SO ₃	ZnCl ₂ H ₂ O ₄	Total Containers	
Project:		Max Benefits - Beaumont GMZ																	
Sampled By:		C. Hunter																	
Comments:																			
Email results to:		Ajakher@cl.beaumont.ca.us, ckhunter@dudek.com, sstuart@dudek.com																	
Date	Time	Sample Identification																	
5/18/20	18:45	CC-01	1	SW	X														10
1	18:20	CC-03	3	SW	X														10
	13:30	STC-01	STC	SW	X														10
Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush																			
Relinquished By (Sign)				Print Name / Company				Date / Time				Received By (Sign)				Print Name / Company			
[Signature]				C. Hunter / Dudek				5/19/20 18:15											
(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C Shipped Via: <input type="checkbox"/> Fed Ex <input type="checkbox"/> Golden State Overnight <input type="checkbox"/> UPS <input type="checkbox"/> OnTrac <input type="checkbox"/> USPS <input type="checkbox"/> Other _____ Condition: <input type="checkbox"/> On Wet Ice <input type="checkbox"/> On Blu Ice <input type="checkbox"/> Intact <input type="checkbox"/> Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____ Receipt Comments: _____ Clinical Lab Receipt Temp.: _____ °C																			

DUDEK

FIELD CALIBRATION RECORD

Project Name: City of Beaumont

Date of Field Calibration: 5/18/20

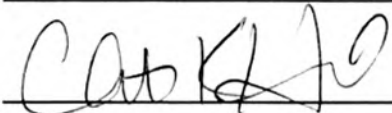
Project Number: 11110.2020

Field Location: Beaumont area, CA

Field Crew: C. Hunter

Weather Conditions: _____

Parameter Sensor: _____

Signature: 

Instr. Type: YSI

Model: 556

Temp (using thermometer): 22.6 Temp (using meter): 23.6

Parameters / Field Measurements							General Description of Standards	
	pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (uS/cm)	Percent Error	calibration solution, supplier, exp. Date	
Standard Solution Values	1	4.0	714.1		1294			
	2	7.0						
	3	10.0						
Pre-calibration Readings for Each Standard	1	4.18	712.5		1329			
	2	7.13						
	3	10.05						
Post-calibration Readings for Each Standard	1	4.00	712.0		1297			
	2	7.00						
	3	10.02						

Site: CC-01

Weather Flow Visuals

Date: 6/7/20

Conditions: _____

Total width of creek 6.6

Sum of segment's widths 6.6

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1.1	0.6	0.678	0.447	
	1.1	0.6	1.062	0.720	
	1.1	0.7	1.187	0.911	
	1.1	0.7	1.197	0.921	
	1.1	0.7	1.105	0.850	
	1.1	0.6	0.946	0.625	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
13:30	24.6	8.3	758	6.79	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft

3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: CC-03

Weather Flow Visuals

Date: 6/7/20

Conditions: _____

Total width of creek 5

Sum of segment's widths 5

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1	0.2	0.537	0.107	
	1	0.4	1.417	0.566	
	1	0.5	1.712	0.856	
	1	0.6	1.417	0.850	
	1	0.6	1.505	0.903	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
13:00	23.1	8.46	732	7.31	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F

Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F

Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: STC-01

Weather Flow Visuals

Date: 6/7/20

Conditions: _____

Total width of creek 4

Sum of segment's widths 4

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1	0.5	3.662	1.831	
	1	0.4	3.489	1.395	
	1	0.3	2.629	0.789	
	1	0.2	1.315	0.263	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
12:30	20.2	8.34	770	8.16	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Clinical Lab of San Bernardino, Inc.

Chain of Custody

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

WO _____

Client		City of Beaumont		Destination Laboratory										Analysis Requested										Comments	Turn Around Time (TAT)				
Address:		550 E. 6th St. Beaumont, CA. 92223		<input checked="" type="checkbox"/> Clinical Grand Terrace / ELAP 1088 <input type="checkbox"/> Clinical Lompoc / ELAP 1678 <input type="checkbox"/> Other:										Total Dissolved Solids (SM 2540C) Nitrate-N (EPA 300.0) Nitrite-N (EPA 300.0) Ammonia-N (EPA 350.1) Alkalinity (inc. HCO ₃ , CO ₃ , and OH) Ca, Mg, K, Na (EPA 200.7) Sulfate (EPA 300.0) Specific Conductance (SM 2510B) PH (SM 4500H+B) Chloride (EPA 300.0) Fluoride (EPA 300.0)															
Client Contact:		Amer Jaker		No. of Preserved Cont																									
Phone No.:		951-769-8520 FAX No.: 951-769-8526		ChlorAC Zn/C4H6O4 Na2SO3 NaOH HCl HNO3 C6H8O6 NH4Cl Na2S2O3 Unpreserved Sample Type																									
System No.:		Max Benefits - Beaumont GMZ		Matrix																									
Project:		Max Benefits - Beaumont GMZ		Container ID																									
Sampled By:		C. Hunter		Sample Type																									
Comments:		TVanBelle@beaumont.gov		Unpreserved																									
Email results to:		Ajaker@clbeaumont.ca.us, ckhunter@dudek.com, sstuart@dudek.com		Na2S2O3																									
Date	Time	Sample Identification		Container ID	Matrix	Sample Type	Unpreserved	Na2S2O3	C6H8O6	HNO3	HCl	NaOH	Na2SO3	Zn/C4H6O4	ChlorAC	Total Containers	Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO ₃ , CO ₃ , and OH)	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	PH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Comments	Turn Around Time (TAT)
6/7/20	13:30	CC-01		1	SW		X									2	X	X	X	X	X	X	X	X	X	X	X		10
	13:00	CC-03		3	SW		X									2	X	X	X	X	X	X	X	X	X	X	X		10
	12:30	STC-01		STC	SW		X									2	X	X	X	X	X	X	X	X	X	X		10	

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
	C. Hunter / Dudek	6/7/20 14:00		

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C

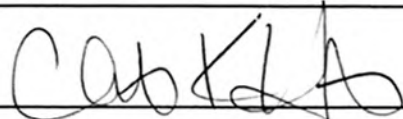
Shipped Via: Fed Ex Golden State Overnight UPS OnTrac USPS Other _____

Condition: On Wet Ice On Blu Ice Intact Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____

Receipt Comments: _____ Clinical Lab Receipt Temp.: _____ °C

DUDEK

FIELD CALIBRATION RECORD

Project Name: City of Beaumont
 Project Number: 11110.2020
 Field Crew: C. Hunter
 Signature: 

Date of Field Calibration: 6/7/20
 Field Location: Beaumont area, CA
 Weather Conditions: _____
 Parameter Sensor: _____
 Instr. Type: YSI
 Model: 556
 Temp (using thermometer): 22.7 Temp (using meter): 23.6

Parameters / Field Measurements							General Description of Standards
	pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (µS/cm)	Percent Error	calibration solution, supplier, exp. Date
Standard Solution Values	1	4.0	712.8		1321		
	2	7.0					
	3	10.0					
Pre-calibration Readings for Each Standard	1	4.05	711.2		1343		
	2	6.98					
	3	9.90					
Post-calibration Readings for Each Standard	1	4.00	712.2		1318		
	2	7.01					
	3	10.00					

Site: CC-01

Weather Flow Visuals

Date: 6/18/20

Conditions: _____

Total width of creek 5

Sum of segment's widths 5

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1	0.3	0.605	0.181	
	1	0.9	1.172	1.054	
	1	1.0	1.520	1.520	
	1	1.1	1.136	1.249	
	1	1.3	0.677	0.876	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
16:30	26.3	8.12	751	5.05	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
 Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: CC-03

Weather Flow Visuals

Date: 6/18/20

Conditions: _____

Total width of creek 4

Sum of segment's widths 4

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1	0.8	0.944	0.755	
	1	0.8	1.678	1.318	
	1	1.0	1.904	1.904	
	1	0.9	1.565	1.414	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
15:15	25.9	8.41	733	6.87	Y

Conditions Key:
Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow
Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
 3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud
Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: STC-01

Weather Flow Visuals

Date: 6/18/20

Conditions: _____

Total width of creek 4

Sum of segment's widths 4

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1	0.5	3.137	1.568	
	1	0.4	3.056	1.222	
	1	0.2	2.659	0.531	
	1	0.2	1.267	0.253	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
16:00	23.7	8.32	772	7.32	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft

3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Clinical Laboratory of San Bernardino, Inc.

0/6/6 20F-222
Chain of Custod Item 5.

Client		City of Beaumont		Analysis Requested						Comments
Address		715 West 4th Street								
		Beaumont, CA 92223								
Contact		Thaxton Van Belle								
Phone #		(951) 769-8534		Email Address:		Beaumont Group				
Project		Max Benefits Water		Fax #:		(951) 769-0914				
Sub Project		WINTER/11		Reporting Requests:						Bottles
Sampled by		C. Hunter								
				(X) Test Share						
				() CC's To:						

See List

Date (Comp Start)	Time (Comp Start)	Date (Comp End)	Time (Comp End)	Sample Identification	Matrix	Type	Preservatives										
				Influent 24 Hr. Composite	WW	-1	-7	X	X								1-Half Gallon
				Effluent 24 Hr. Composite	WW	-1	5,7	X	X								1-Half Gallon
				Effluent Grab	WW	-1	4,7				X						1-Half Gallon
6/18/20	14:30			CC-01	1	SW		X									
	15:15			CC-03	3	SW		X									
	16:00			STC-01	STC	SW		X									

Matrix: DW-Drinking Water, WW-Waste Water, SW-Surface Water, GW- Ground Water Type- 1-Routine, 2-Repeat, 3-Replacement, 4-Special
Preservatives: (1) Na2S2O3 (2) HCl (3) HNO3 (4) NH4Cl (5) H2SO4 (6) Na2SO3 (7) Cold (8) Other:

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
	C. Hunter / Dunderk Chris Martinez	6/18/20 16:20 6-19-20 12:45		Chris Martinez
		14:05		CSB

Samples received: (X) On ice (X) Intact () Custody seals Temp 4 () F (X) C

DUDEK

FIELD CALIBRATION RECORD

Project Name: City of Beaumont
 Project Number: 11110.2020
 Field Crew: C. Hunter
 Signature: *C. Hunter*

Date of Field Calibration: 6/18/20
 Field Location: Beaumont area, CA
 Weather Conditions: _____
 Parameter Sensor: _____
 Instr. Type: YSI
 Model: 556
 Temp (using thermometer): 22.3 Temp (using meter): 23.3

Parameters / Field Measurements							General Description of Standards
	pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (uS/cm)	Percent Error	calibration solution, supplier, exp. Date
Standard Solution Values	1	4.0	711.4		1302		
	2	7.0					
	3	10.0					
Pre-calibration Readings for Each Standard	1	3.86	713.8		1250		
	2	6.88					
	3	9.63					
Post-calibration Readings for Each Standard	1	3.98	711.6		1306		
	2	6.78					
	3	10.02					

Site: CC-01

Weather Flow Visuals

Date: 6/27/20

Conditions: _____

Total width of creek 6

Sum of segment's widths 6

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1	0.3	0.463	0.138	
	1	0.9	1.280	1.152	
	1	1.0	1.328	1.328	
	1	1.0	1.505	1.505	
	1	1.1	1.232	1.355	
	1	1.2	0.913	1.095	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
16:30	27.5	8.12	756	4.76	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: CC-03

Weather Flow Visuals

Date: 6/27/20

Conditions: _____

Total width of creek 5

Sum of segment's widths 5

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1	0.2	0.947	0.188	
	1	0.5	1.678	0.827	
	1	0.6	2.192	1.315	
	1	0.6	2.048	1.228	
	1	0.7	1.981	1.386	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
16:00	27.6	8.76	759	6.62	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: STC-01

Weather Flow Visuals

Date: 6/27/20

Conditions: _____

Total width of creek 3.3

Sum of segment's widths 3.3

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1.1	0.5	2.720	1.496	
	1.1	0.3	2.720	0.897	
	1.1	0.2	0.547	0.119	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
15:30	25.5	8.41	720	7.02	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

0/0/3

20F2314

Clinical Lab of San Bernardino, Inc. Chain of Custody
 21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client		City of Besoumet		Destination Laboratory		Analysis Requested														Comments	Turn Around Time (TAT)
Address:		550 E. 6th St.		<input type="checkbox"/> Clinical Grand Terrace / ELAP 1088 <input type="checkbox"/> Clinical Lompoc / ELAP 1678 <input type="checkbox"/> Other		Total Dissolved Solids (SM 2494)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	A. Total Ph. (inc. H+ OH) (O1, and OH)	C. A. Mg. N. No. (EPA 300.7)	Water (EPA 300.0)	Specific Conductance (SM 2510 B)	pH (SM 4500 H-H)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Iron (EPA 300.0)				
Client Contact:		Amer Jabr		Phone No.: 951-769-8520 FAX No.: 951-769-8526		System No.:		Project:		Max Benefit - Besoumet GMZ		Sampled By:		C. Hunter		Comments:		Email results to: Ajakher@cl.besoumet.ca.us, chhunter@dudek.com, rmart@dudek.com			
Date	Time	Sample Identification		Matrix	Sample Type	Unpreserved	As2303	ANCO	ANCO	ANCO	ANCO	ANCO	ANCO	ANCO	ANCO	ANCO	ANCO	ANCO			
6/27/20	15:30	CC-01		SW	X	X														10	
	16:30	CC-03		SW	X	X														10	
	16:30	STC-01		SW	X	X														10	

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other
 Use for Bacteria Samples: (Sample Type) 1 Routine 2 Repeat 3 Replacement & Special D-Distribution W-Wall TAT: (10) Ten Day (3) Three Day Rush (2) Two Day Rush

Acquisition By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
	C. Hunter / Dudek	6/27/20 16:30		Stu Styles / CUSB
	Stu Styles / CUSB	6/29/20 - 8:45		J. Styles / CUSB

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C
 Shipped Via: Fed Ex Golden State Overnight UPS OnTrac USPS Other _____
 Condition: On Wet Ice On Blue Ice Intract Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____
 Receipt Comments: _____ Clinical Lab Receipt Temp.: 4.3 °C

DUDEK **FIELD CALIBRATION RECORD**

Project Name: City of Beaumont Date of Field Calibration: 6/27/20

Project Number: 11110.2020 Field Location: Beaumont area, CA

Field Crew: C. Hunter Weather Conditions: _____

Parameter Sensor: _____

Instr. Type: YSI

Model: 556

Signature: Cook Temp (using thermometer): 22.7 Temp (using meter): 23.6

Parameters / Field Measurements							General Description of Standards
	pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (µS/cm)	Percent Error	calibration solution, supplier, exp. Date
Standard Solution Values	1	4.0		711.6		1317	
	2	7.0					
	3	10.0					
Pre-calibration Readings for Each Standard	1	3.97		712.2		1377	
	2	6.88					
	3	10.00					
Post-calibration Readings for Each Standard	1	4.01		711.8		1319	
	2	6.99					
	3	10.00					

Site: CC-01

Weather Flow Visuals

Date: 7/18/20

Conditions: _____

Total width of creek _____

Sum of segment's widths _____

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1	0.3	0.402	0.120	
	1	0.8	0.961	0.768	
	1	0.8	1.472	1.177	
	1	0.9	1.328	1.195	
	1	0.1	1.088	1.088	
	1	1.1	0.511	0.567	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
13:00	27.8	8.19	757	4.72	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: CC-03

Weather Flow Visuals

Date: 7/18/20

Conditions: _____

Total width of creek 4.4

Sum of segment's widths 4.4

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1.1	0.6	1.367	0.895	
	1.1	0.6	1.424	0.939	
	1.1	0.4	1.373	0.590	
	1.1	0.2	0.447	0.097	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
12:00	26.3	8.51	753	7.07	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: STC-01

Weather Flow Visuals

Date: 7/18/20

Conditions: _____

Total width of creek 2.2

Sum of segment's widths 2.2

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1.1	0.6	2.72	1.795	
	1.1	0.6	3.00	1.983	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
11:00	22.3	8.48	761	7.67	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Clinical Lab of San Bernardino, Inc.

Chain of Custody

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 777-7300

0-0-6
WO 20G Item 5.

Client		City of Beaumont		Destination Laboratory					Analysis Requested										Turn Around Time (TAT)
Address:		550 E. 6th St. Beaumont, CA. 92223		<input checked="" type="checkbox"/> Clinical Grand Terrace / ELAP 1088 <input type="checkbox"/> Clinical Lompoc / ELAP 1678 <input type="checkbox"/> Other:					Total Dissolved Solids (SM 2540C) Nitrate - EPA 300.0 Nitrite - EPA 300.0 Ammonia - EPA 350.1 Total Ammonia Nitrogen (TAN), HCO ₃ , CO ₃ , and OH Ca, Mg, K, Na (EPA 200.7) Sulfate (EPA 300.0) Specific Conductance (SM 2510B) pH (SM 4500H+B) Chloride (EPA 300.0) Fluoride (EPA 300.0)										
Client Contact:		Thaxton Vin Bilt							Comments										
Phone No.:		(951) 769-8531																	
System No.:																			
Project:		Max Benefits - Beaumont GMZ																	
Sampled By:		C. Hunter																	
Comments:																			
Email results to:		ckhunter@dudek.com, sstuart@dudek.com																	

Date	Time	Sample Identification	Container ID	Matrix	Sample Type	Unpreserved	Na2S2O3	NH4Cl	G6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnCl2	ChlorAC	Total Containers
7/18/20	13:00	CC-01	1	SW												2
i	12:00	CC-03	3	SW												2
	11:00	STC-01	STC	SW												2

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
<i>[Signature]</i>	Chris Martinez	7/18/20 13:30	<i>[Signature]</i>	Chris Martinez
<i>[Signature]</i>	Chris Martinez	7/19/20 9:35	<i>[Signature]</i>	CLSB / Colin D.

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C

Shipped Via: Fed Ex Golden State Overnight UPS OnTrac USPS Other _____

Condition: On Wet Ice On Blu Ice Intact Custody Seals Samples / COC Checked By: _____

Receipt Comments: _____ Work Order Logged By: _____

Clinical Lab Receipt Temp.: 44 °C

DUDEK **FIELD CALIBRATION RECORD**

Project Name: City of Beaumont Date of Field Calibration: 7/18/20

Project Number: 11110.2020 Field Location: Beaumont area, CA

Field Crew: C. Hunter Weather Conditions: _____

Parameter Sensor: _____

Instr. Type: YSI

Model: 556

Signature: [Handwritten Signature] Temp (using thermometer): 22.5 Temp (using meter): 23.7

Parameters / Field Measurements							General Description of Standards
	pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (µS/cm)	Percent Error	calibration solution, supplier, exp. Date
Standard Solution Values	1	4.0		709.8		1350	
	2	7.0					
	3	10.0					
Pre-calibration Readings for Each Standard	1	4.04		710.6		1360	
	2	6.94					
	3	10.07					
Post-calibration Readings for Each Standard	1	3.99		709.9		1301	
	2	6.99					
	3	9.98					

Site: CC-01

Weather Flow Visuals

Date: 7/28/20

Conditions: _____

Total width of creek 4.4

Sum of segment's widths 4.4

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1.1	0.5	0.549	0.301	
	1.1	0.6	0.944	0.623	
	1.1	0.6	0.987	0.651	
	1.1	0.9	0.557	0.551	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
15:30	28.4	8.32	760	5.41	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow
Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud
Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: CC-03

Weather Flow Visuals

Date: 7/28/20

Conditions: _____

Total width of creek 3.3

Sum of segment's widths 3.3

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1.1	0.5	0.559	0.307	
	1.1	0.7	1.136	0.499	
	1.1	0.2	0.486	0.106	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
14:30	26.8	8.74	755	6.29	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft

3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F

Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F

Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: STC-01

Weather Flow Visuals

Date: 7/28/20

Conditions: _____

Total width of creek 1

Sum of segment's widths 1

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1	0.4	3.328	1.331	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
13:30	21.7	8.38	678	6.88	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow
Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
 3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud
Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

DUDEK **FIELD CALIBRATION RECORD**

Project Name: City of Beaumont Date of Field Calibration: 7/28/20

Project Number: 11110.2020 Field Location: Beaumont area, CA

Field Crew: C Hunter Weather Conditions: _____

Parameter Sensor: _____

Instr. Type: YSI

Signature: Cook Model: 556

Temp (using thermometer): 22.6 Temp (using meter): 23.5

Parameters / Field Measurements							General Description of Standards
	pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (uS/cm)	Percent Error	calibration solution, supplier, exp. Date
Standard Solution Values	1	4.0	710.0		1296		
	2	7.0					
	3	10.0					
Pre-calibration Readings for Each Standard	1	4.11	711.3		1302		
	2	6.99					
	3	9.90			1319		
Post-calibration Readings for Each Standard	1	3.99	710.2				
	2	7.00					
	3	10.02					

Site: CC-01

Weather Flow Visuals

Date: 8/16/20

Conditions: _____

Total width of creek 6

Sum of segment's widths 6

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1	0.3	0.544	0.163	
	1	0.8	1.058	0.870	
	1	0.9	1.328	1.195	
	1	0.9	1.472	1.324	
	1	1.0	1.678	1.678	
	1	1.1	0.471	0.485	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
9:00	27.6	8.23	761	5.39	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: CC-03

Weather Flow Visuals

Date: 8/16/20

Conditions: _____

Total width of creek 3.3

Sum of segment's widths 3.3

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1.1	0.5	1.424	0.783	
	1.1	0.6	1.648	1.087	
	1.1	0.5	1.362	0.749	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
9:30	25.9	8.29	756	6.68	

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: STC-01

Weather Flow Visuals

Date: 8/16/20

Conditions: _____

Total width of creek 2

Sum of segment's widths 2

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1	0.6	3.006	1.803	
	1	0.6	3.328	1.996	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
10:00	22.5	8.61	756	7.78	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Clinical Lab of San Bernardino, Inc.

Chain of Custody

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client		City of Beaumont		Destination Laboratory													Analysis Requested										Comments	Turn Around Time (TAT)				
Address:		550 E. 6th St. Beaumont, CA. 92223		<input checked="" type="checkbox"/> Clinical Grand Terrace / ELAP 1088 <input type="checkbox"/> Clinical Lompoc / ELAP 1678 <input type="checkbox"/> Other:													Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO ₃ , CO ₃ , and OH)	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	PH (SM 4500H+B)	Chloride (EPA 300.0)			Fluoride (EPA 300.0)			
Client Contact:		FAX No.:															Total Containers															
System No.:		Project: Max Benefits - Beaumont GMZ		Container ID	Matrix	No. of Preserved Cont.																										
Phone No.:		FAX No.:				Sample Type	Unpreserved	Na2S2O3	NH4Cl	CaH8O6	HNO3	HCl	NaOH	Na2SO3	ZnCdH6O4	ChlorAC																
Project:		Sampled By:																														
Comments:		Email results to: Ajakher@ci.beaumont.ca.us, ckhunter@dudek.com, sstuart@dudek.com																														
Date	Time	Sample Identification																														
8/16/20	9:00	CC-01		1	SW	X								2	X	X	X	X	X	X	X	X	X	X	X	X	X					
1	9:30	CC-03		3	SW	X								2	X	X	X	X	X	X	X	X	X	X	X	X						
1	10:00	STC-01		STC	SW	X								2	X	X	X	X	X	X	X	X	X	X	X	X						
Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush																																
Relinquished By (Sign)		Print Name / Company				Date / Time				Received By (Sign)				Print Name / Company																		
		Christina Hunter / Dudek				8/16/20 10:30																										
(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C Shipped Via: <input type="checkbox"/> Fed Ex <input type="checkbox"/> Golden State Overnight <input type="checkbox"/> UPS <input type="checkbox"/> OnTrac <input type="checkbox"/> USPS <input type="checkbox"/> Other _____ Condition: <input type="checkbox"/> On Wet Ice <input type="checkbox"/> On Blu Ice <input type="checkbox"/> Intact <input type="checkbox"/> Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____ Receipt Comments: _____ Clinical Lab Receipt Temp.: _____ °C																																



FIELD CALIBRATION RECORD

Project Name: City of Beaumont

Project Number: 11110.2020

Field Crew: C. Hunter

Signature: *[Handwritten Signature]*

Date of Field Calibration: 8/16/20

Field Location: Beaumont area, CA

Weather Conditions: _____

Parameter Sensor: _____

Instr. Type: YSI

Model: 556

Temp (using thermometer): 22.4 Temp (using meter): 23.4

Parameters / Field Measurements							General Description of Standards
	pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (µS/cm)	Percent Error	calibration solution, supplier, exp. Date
Standard Solution Values	1	4.0		712.8		1326	
	2	7.0					
	3	10.0					
Pre-calibration Readings for Each Standard	1	4.02		709.2		1297	
	2	6.95					
	3	9.87					
Post-calibration Readings for Each Standard	1	4.02		711.9		1328	
	2	6.98					
	3	9.99					

Site: CC-01

Weather Flow Visuals

Date: 8/27/20

Conditions: _____

Total width of creek 5

Sum of segment's widths 5

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1	1.1	0.792	0.871	
	1	0.8	1.328	1.062	
	1	0.8	1.568	1.254	
	1	0.7	1.072	0.750	
	1	0.7	0.671	0.469	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
13:00	29.3	8.23	793	5.78	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: CC-03

Weather Flow Visuals

Date: 8/27/20

Conditions: _____

Total width of creek 6

Sum of segment's widths 6

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1	0.3	0.676	0.1938	
	1	0.4	1.17	0.445	
	1	0.4	1.512	0.604	
	1	0.4	1.477	0.558	
	1	0.4	1.403	0.561	
	1	0.4	0.866	0.346	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
12:30	27.1	8.78	782	6.34	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: STC-01

Weather Flow Visuals

Date: 8/27/20

Conditions: _____

Total width of creek 2.2

Sum of segment's widths 2.2

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1.1	0.4	2.000	0.88	
	1.1	0.5	2.720	1.496	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
12:00	22.8	8.36	770	7.27	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Clinical Lab of San Bernardino, Inc.

Chain of Custody

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

WO _____

Item 5.

Client		City of Beaumont		Destination Laboratory											Analysis Requested										Comments	Turn Around Time (TAT)				
Address:		550 E. 6th St. Beaumont, CA. 92223		<input checked="" type="checkbox"/> Clinical Grand Terrace / ELAP 1088 <input type="checkbox"/> Clinical Lompoc / ELAP 1678 <input type="checkbox"/> Other:											Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO ₃ , CO ₃ , and OH)	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	PH (SM 4500H+B)	Chloride (EPA 300.0)			Fluoride (EPA 300.0)			
Client Contact:		FAX No.:		Container ID	Matrix	Sample Type	No. of Preserved Cont.										Total Containers													
System No.:		Project: Max Benefits - Beaumont GMZ					Unpreserved	NH4Cl	Na2S2O3	CaH8O6	HNO3	HCl	NaOH	Na2SO3	ZnCl2	ChlorAC														
Sampled By: <i>C. Hunter</i>		Comments:																												
Phone No.:		Email results to: Ajakher@ci.beaumont.ca.us, ckhunter@dudek.com, sstuart@dudek.com																												
Date	Time	Sample Identification																												
8/29/20	13:00	CC-01		1	SW	X									2	X	X	X	X	X	X	X	X	X	X	X	X	X		10
	12:30	CC-03		3	SW	X									2	X	X	X	X	X	X	X	X	X	X	X	X	X		10
	12:00	STC-01		STC	SW	X									2	X	X	X	X	X	X	X	X	X	X	X	X	X		10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other
 Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
<i>[Signature]</i>	<i>C. Hunter / Dudek</i>	8/29/20 13:30		

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C
 Shipped Via: Fed Ex Golden State Overnight UPS OnTrac USPS Other _____
 Condition: On Wet Ice On Blu Ice Intact Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____
 Receipt Comments: _____ Clinical Lab Receipt Temp.: _____ °C

DUDEK **FIELD CALIBRATION RECORD**

Project Name: City of Beaumont Date of Field Calibration: 8/27/20

Project Number: 11110.2020 Field Location: Beaumont area, CA

Field Crew: C. Hunter Weather Conditions: _____

Signature: [Handwritten Signature] Parameter Sensor: _____

Instr. Type: YSI

Model: 556

Temp (using thermometer): 22.1 Temp (using meter): 23.2

Parameters / Field Measurements							General Description of Standards
	pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (µS/cm)	Percent Error	calibration solution, supplier, exp. Date
Standard Solution Values	1	4.0		710.5		1259	
	2	7.0					
	3	10.0					
Pre-calibration Readings for Each Standard	1	4.03		710.1		1330	
	2	7.13					
	3	10.02					
Post-calibration Readings for Each Standard	1	4.01		712.0		1326	
	2	7.01					
	3	9.99					

Site: CC-01

Weather Flow Visuals

Date: 9/12/20

Conditions: _____

Total width of creek 5

Sum of segment's widths 5

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1.1	0.7 1.1 1.1	0.992	2 0.763	
	1.1	1.2 1.1 1.1	0.8 1.129	2.1 1.879	
	1.1	1.1 1.1 1.1	1.782	2.156	
	1.1	1.2 1.1 1.1	1.734	2.288	
	1.1	1.3 1.1	1.161	1.660	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
13:00	28.0	8.22	817	6.01	Y

Conditions Key:
Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow
Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
 3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud
Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: CC-03

Weather Flow Visuals

Date: 9/12/20

Conditions: _____

Total width of creek 3.3

Sum of segment's widths 3.3

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1.1	0.8	2.789	2.454	
	1.1	0.9	2.994	2.964	
	1.1	0.7	2.313	1.781	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
12:15	26.1	8.77	795	6.62	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: STC-01

Weather Flow Visuals

Date: 9/12/20

Conditions: _____

Total width of creek 2.2

Sum of segment's widths 2.2

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1.1	0.4	1.856	0.816	
	1.1	0.5	2.768	1.522	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
11:30	19.8	8.37	772	8.09	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft

3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

DUDEK

FIELD CALIBRATION RECORD

Project Name: City of Beaumont

Date of Field Calibration: 7/12/20

Project Number: 11110.2020

Field Location: Beaumont area, CA

Field Crew: C. Hunter

Weather Conditions: _____

Parameter Sensor: _____

Instr. Type: YSI

Signature: [Handwritten Signature]

Model: 556

Temp (using thermometer): 22.4 Temp (using meter): 23.4

Parameters / Field Measurements							General Description of Standards
	pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (uS/cm)	Percent Error	calibration solution, supplier, exp. Date
Standard Solution Values	1	4.0	712.1		1302		
	2	7.0					
	3	10.0					
Pre-calibration Readings for Each Standard	1	3.91	717.0		1318		
	2	7.09					
	3	9.83					
Post-calibration Readings for Each Standard	1	4.03	711.9		1307		
	2	6.99					
	3	10.01					

Site: CC-01

Weather Flow Visuals

Date: 9/22/20

Conditions: _____

Total width of creek 6

Sum of segment's widths 6

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1	0.3	0.748	0.227	
	1	0.9	1.255	1.129	
	1	0.9	1.64	1.476	
	1	1.0	1.59	1.59	
	1	1.2	1.057	1.268	
	1	1.3	1.184	1.539	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
17:30	29.1	8.28	780	5.77	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: CC-03

Weather Flow Visuals

Date: 9/22/20

Conditions: _____

Total width of creek 3.3

Sum of segment's widths 3.3

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1.1	0.8	2.673	2.352	
	1.1	0.9	2.789	2.761	
	1.1	0.7	2.313	1.781	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
16:45	27.9	8.40	796	6.16	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: STC-01

Weather Flow Visuals

Date: 9/22/20

Conditions: _____

Total width of creek 3.3

Sum of segment's widths 3.3

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1.1	0.7	1.757	0.577	
	1.1	0.5	2.225	1.223	
	1.1	0.5	3.041	1.672	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
14:00	23.1	8.41	759	7.21	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Clinical Lab of San Bernardino, Inc.

Chain of Custody

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

WO _____

Item 5.

Client		City of Beaumont		Destination Laboratory											Analysis Requested							Comments	Turn Around Time (TAT)																					
Address:		550 E. 6th St. Beaumont, CA. 92223		<input checked="" type="checkbox"/> Clinical Grand Terrace / ELAP 1088 <input type="checkbox"/> Clinical Lompoc / ELAP 1678 <input type="checkbox"/> Other:											Total Dissolved Solids (SM 2540C) Nitrate-N (EPA 300.0) Nitrite-N (EPA 300.0) Ammonia-N (EPA 350.1) Alkalinity (inc. HCO ₃ , CO ₃ , and OH) Ca, Mg, K, Na (EPA 200.7) Sulfate (EPA 300.0) Specific Conductance (SM 2510B) pH (SM 4500H+B) Chloride (EPA 300.0) Fluoride (EPA 300.0)																													
Client Contact:		FAX No.:		<table border="1" style="width:100%; border-collapse: collapse;"><thead><tr><th rowspan="2">Container ID</th><th rowspan="2">Matrix</th><th rowspan="2">Sample Type</th><th colspan="10">No. of Preserved Cont.</th><th rowspan="2">Total Containers</th></tr><tr><th>Unpreserved</th><th>Na2S2O3</th><th>NH4Cl</th><th>CG#806</th><th>HNO3</th><th>HCl</th><th>NaOH</th><th>Na2SO3</th><th>ZnCl2</th><th>ChlorAC</th></tr></thead></table>											Container ID	Matrix	Sample Type	No. of Preserved Cont.										Total Containers	Unpreserved	Na2S2O3	NH4Cl	CG#806	HNO3	HCl	NaOH	Na2SO3	ZnCl2	ChlorAC						
Container ID	Matrix	Sample Type	No. of Preserved Cont.															Total Containers																										
			Unpreserved												Na2S2O3	NH4Cl	CG#806		HNO3	HCl	NaOH	Na2SO3	ZnCl2			ChlorAC																		
Phone No.:		System No.:		Project: Max Benefits - Beaumont GMZ		Sampled By: C Hunter		Comments:		Email results to: Ajakher@ci.beaumont.ca.us, ckhunter@dudek.com, sstuart@dudek.com																																		
Date		Time		Sample Identification			Date / Time		Received By (Sign)		Print Name / Company																																	

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other
Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)		Print Name / Company		Date / Time		Received By (Sign)		Print Name / Company	
		C Hunter / Dudek		9/23/20 14:00					

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C
Shipped Via: Fed Ex Golden State Overnight UPS OnTrac USPS Other _____
Condition: On Wet Ice On Blu Ice Intact Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____
Receipt Comments: _____ Clinical Lab Receipt Temp.: _____ °C

DUDEK

FIELD CALIBRATION RECORD

Project Name: City of Beaumont

Date of Field Calibration: 9/22/20

Project Number: 11110.2020

Field Location: Beaumont area, CA

Field Crew: C. Hunter

Weather Conditions: _____

Parameter Sensor: _____

Instr. Type: YSI

Signature: 

Model: 556

Temp (using thermometer): 22.5 Temp (using meter): 23.7

Parameters / Field Measurements							General Description of Standards
	pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (µS/cm)	Percent Error	calibration solution, supplier, exp. Date
Standard Solution Values	1	4.0		712.1		1339	
	2	7.0					
	3	10.0					
Pre-calibration Readings for Each Standard	1	4.08		713.6		1260	
	2	6.89					
	3	9.80					
Post-calibration Readings for Each Standard	1	3.97		712.0		1338	
	2	7.02					
	3	10.03					

Site: CC-01

Weather Flow Visuals

Date: 10/10/20

Conditions: _____

Total width of creek 6.6

Sum of segment's widths 6.6

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1.1	1.0	0.607	0.667	
	1.1	1.0	1.057	1.162	
	1.1	1.0	1.472	1.619	
	1.1	1.0	1.472	1.619	
	1.1	0.9	1.01	0.999	
	1.1	0.7	0.358	0.275	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
18:00	28.3	8.3	736	5.86	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: CC-03

Weather Flow Visuals

Date: 10/10/20

Conditions: _____

Total width of creek 6

Sum of segment's widths 6

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1	0.7	0.463	0.327	
	1	0.9	0.973	0.875	
	1	0.9	1.927	1.731	
	1	1.1	2.000	2.2	
	1	1.1	1.553	1.708	
	1	0.5	1.450	0.725	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
17:15	26.5	8.46	808	6.19	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: STC-01

Weather Flow Visuals

Date: 10/10/20

Conditions: _____

Total width of creek 4.4

Sum of segment's widths 4.4

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1.1	0.8	1.924	1.693	
	1.1	0.6	2.313	1.526	
	1.1	0.5	2.676	1.471	
	1.1	0.3	1.057	0.348	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
16:30	20.7	8.37	736	7.41	1

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

DUDEK

FIELD CALIBRATION RECORD

Project Name: City of Beaumont
 Project Number: 11110.2020
 Field Crew: C. Hunter
 Signature: *CAO KAO*

Date of Field Calibration: 10/10/20
 Field Location: Beaumont area, CA
 Weather Conditions: _____
 Parameter Sensor: _____
 Instr. Type: YSI
 Model: 556
 Temp (using thermometer): 22.2 Temp (using meter): 23.3

Parameters / Field Measurements							General Description of Standards
	pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (µS/cm)	Percent Error	calibration solution, supplier, exp. Date
Standard Solution Values	1	7.0		711.6		1319	
	2	7.0					
	3	10.0					
Pre-calibration Readings for Each Standard	1	3.87		711.5		1265	
	2	7.01					
	3	10.01					
Post-calibration Readings for Each Standard	1	7.01		711.6		1322	
	2	7.02					
	3	10.03					

Site: CC-01

Weather Flow Visuals

Date: 11/3/20

Conditions: _____

Total width of creek 6.6

Sum of segment's widths 6.6

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1.1	0.8	0.715	0.658	
	1.1	0.7	1.025	0.789	
	1.1	0.8	1.349	1.187	
	1.1	0.8	1.424	1.253	
	1.1	0.8	1.13	0.994	
	1.1	0.4	0.511	0.224	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
13:30	27.3	8.13	787	6.17	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow
Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
 3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud
Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: CC-03

Weather Flow Visuals

Date: 11/3/20

Conditions: _____

Total width of creek 5.5

Sum of segment's widths 5.5

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1.1	0.5	0.930	0.511	
	1.1	0.8	2.018	1.775	
	1.1	0.6	1.907	1.256	
	1.1	0.6	1.664	1.098	
	1.1	0.7	1.208	0.930	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
12:45	24.8	8.38	589	6.62	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow
Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
 3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud
Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: STC-01

Weather Flow Visuals

Date: 11/3/20

Conditions: _____

Total width of creek 4

Sum of segment's widths 4

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in: ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1	0.5	1.025	0.512	
	1	0.7	1.512	0.604	
	1	0.3	1.437	0.431	
	1	0.2	0.463	0.092	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
12:00	18.1	8.3	752	8.01	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Clinical Lab of San Bernardino, Inc.**Chain of Custody**

Item 5.

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

WO _____

Client			Destination Laboratory														Analysis Requested													Turn Around Time (TAT)		
Address: 550 E. 6th St. Beaumont, CA. 92223			<input checked="" type="checkbox"/> Clinical Grand Terrace / ELAP 1088 <input type="checkbox"/> Clinical Lompoc / ELAP 1678 <input type="checkbox"/> Other:														Fluoride (EPA 300.0) Chloride (EPA 300.0) pH (SM 4500H+B) Specific Conductance (SM 2510B) Sulfate (EPA 300.0) Ca, Mg, K, Na (EPA 200.7) Alkalinity (inc. HCO ₃ , CO ₃ , and OH) Ammonia-N (EPA 350.1) Nitrite-N (EPA 300.0) Nitrate-N (EPA 300.0)														Comments	
Client Contact:			Container ID	Matrix	No. of Preserved Cont.														Total Containers	Total Dissolved Solids (SM 2540C)	Nitrite-N (EPA 300.0)	Nitrate-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO ₃ , CO ₃ , and OH)	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)			Fluoride (EPA 300.0)
Phone No.: _____ FAX No.: _____					ChlorAC ZnCl ₄ H ₆ O ₄ Na ₂ SO ₃ NaOH HCl HNO ₃ C ₆ H ₈ O ₆ NH ₄ Cl Na ₂ S ₂ O ₃																											
System No.: _____			Sample Type	Unpreserved																												
Project: Max Benefits - Beaumont GMZ																																
Sampled By: <i>C. Hunter</i> Comments: Email results to: Ajakher@ci.beaumont.ca.us , ckhunter@dudek.com , ssstuart@dudek.com																																
Date	Time	Sample Identification	Container ID	Matrix	Sample Type	Unpreserved	Na ₂ S ₂ O ₃	NH ₄ Cl	C ₆ H ₈ O ₆	HNO ₃	HCl	NaOH	Na ₂ SO ₃	ZnCl ₄ H ₆ O ₄	ChlorAC	Total Containers	Total Dissolved Solids (SM 2540C)	Nitrite-N (EPA 300.0)	Nitrate-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO ₃ , CO ₃ , and OH)	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)					
11/3/20	13:30	CC-01	1	SW		X										2	X	X	X	X	X	X	X	X	X	X	X	X	X	10		
1	12:45	CC-03	3	SW		X										2	X	X	X	X	X	X	X	X	X	X	X	X	X	10		
1	12:00	STC-01	STC	SW		X										2	X	X	X	X	X	X	X	X	X	X	X	X	X	10		

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other
 Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
<i>[Signature]</i>	C. Hunter / Dudek	11/3/20 14:00		

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C
 Shipped Via: Fed Ex Golden State Overnight UPS OnTrac USPS Other _____
 Condition: On Wet Ice On Blu Ice Intact Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____
 Receipt Comments: _____ Clinical Lab Receipt Temp.: _____ °C

DUDEK

FIELD CALIBRATION RECORD

Project Name: City of Beaumont

Date of Field Calibration: 11/3/20

Project Number: 11110.2020

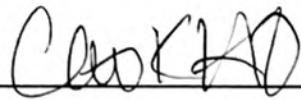
Field Location: Beaumont area, CA

Field Crew: C. Hunter

Weather Conditions: _____

Parameter Sensor: _____

Instr. Type: YSI

Signature: 

Model: 556

Temp (using thermometer): 22.3 Temp (using meter): 23.2

Parameters / Field Measurements							General Description of Standards
	pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (µS/cm)	Percent Error	calibration solution, supplier, exp. Date
Standard Solution Values	1	4.0	712.1		1305		
	2	7.0					
	3	10.0					
Pre-calibration Readings for Each Standard	1	4.06	711.4		1391		
	2	6.83					
	3	10.03					
Post-calibration Readings for Each Standard	1	4.00	712.1		1308		
	2	7.02					
	3	9.98					

Site: CC-01

Weather Flow Visuals

Date: 11/10/20

Conditions: _____

Total width of creek 6.6

Sum of segment's widths 6.6

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1.1	0.9	0.921	0.911	
	1.1	0.9	1.362	1.478	
	1.1	1.0	1.41	1.551	
	1.1	1.0	0.959	0.949	
	1.1	0.9	0.415	0.379	
	1.1	0.7	0.367	0.160	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
15:45	24.7	-	603	6.22	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

pH bulb broken

Site: CC-03

Weather Flow Visuals

Date: 11/10/20

Conditions: _____

Total width of creek 5.5

Sum of segment's widths 5.5

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1.1	0.7	2.076	0.160	
	1.1	0.7	1.876	1.598	
	1.1	0.6	1.376	1.238	
	1.1	0.6	0.674	0.908	
	1.1	0.9	0.364	0.296	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
14:45	22.1	5.82	593	7.91	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: STC-01

Weather Flow Visuals

Date: 11/10/20

Conditions: _____

Total width of creek 4

Sum of segment's widths 4

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1	0.65	1.687	1.096	
	1	0.6	1.743	1.045	
	1	0.7	1.695	0.678	
	1	0.2	0.944	0.188	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
13:30	14.1	8.18	763	7.1	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

0/0/14

wo 20K1074

Clinical Lab of San Bernardino, Inc.

Chain of Custody

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client		City of Beaumont		Destination Laboratory													Analysis Requested													Turn Around Time (TAT)				
Address:		550 E. 6th St.		<input checked="" type="checkbox"/> Clinical Grand Terrace / ELAP 1088 <input type="checkbox"/> Clinical Lompoc / ELAP 1678 <input type="checkbox"/> Other:													Total Dissolved Solids (SM 2540C) Nitrate-N (EPA 300.0) Nitrite-N (EPA 300.0) Ammonia-N (EPA 350.1) Alkalinity (inc. HCO ₃ , CO ₃ , and OH) Ca, Mg, K, Na (EPA 200.7) Sulfate (EPA 300.0) Specific Conductance (SM 2510B) pH (SM 4500H+B) Chloride (EPA 300.0) Fluoride (EPA 300.0) Silica (EPA 200.7)														Comments			
Client Contact:		Thaxton VanBelle		Container ID Matrix Sample Type Unpreserved Na2S2O3 NH4Cl GH806 HNO3 HCl NaOH Na2SO3 ZnO4H6O4 ChlorAC Total Containers													No. of Preserved Cont.																	
Phone No.:		951-769-8520 FAX No.: 951-769-8526																																
System No.:				Project: Max Benefits - Beaumont GMZ																														
Sampled By:																																		
Comments:																																		
Email results to: TVanBelle@beaumontca.gov, ckhunter@dudek.com, sstuart@dudek.com																																		
Date	Time	Sample Identification		Container ID	Matrix	Sample Type	Unpreserved	Na2S2O3	NH4Cl	GH806	HNO3	HCl	NaOH	Na2SO3	ZnO4H6O4	ChlorAC	Total Containers	Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO ₃ , CO ₃ , and OH)	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Silica (EPA 200.7)	Comments	TAT			
11/10/20	11:30	Henry Schwankert		HS	GW	X											2	X	X	X	X	X	X	X	X	X	X	X	X		10			
	13:00	SanTim-1		ST1	GW	X											2	X	X	X	X	X	X	X	X	X	X	X	X		10			
	13:30	SanTim-2B/1		2B1	GW	X											2	X	X	X	X	X	X	X	X	X	X	X	X		10			
	14:00	SanTim-2B/2		2B2	GW	X											2	X	X	X	X	X	X	X	X	X	X	X	X		10			
	15:45	CC-01		1	SW	X											2	X	X	X	X	X	X	X	X	X	X	X	~ CH	10				
	14:45	CC-03		3	SW	X											2	X	X	X	X	X	X	X	X	X	X	X	~	10				
	12:30	STC-01		STC	SW	X											2	X	X	X	X	X	X	X	X	X	X	X	~	10				

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
<i>[Signature]</i>	C. Hunter / Dudek	11/10/20 16:15	<i>[Signature]</i>	Mike B / CSB
<i>[Signature]</i>	Mike B / CSB	11-11-20 1:39	<i>[Signature]</i>	Juanita
		11-11-20 15:26	<i>[Signature]</i>	Cleanette Hernandez / CSB

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C
 Shipped Via: Fed Ex Golden State Overnight UPS OnTrac USPS Other
 Condition: On Wet Ice On Blu Ice Intact Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____
 Receipt Comments: _____ Clinical Lab Receipt Temp.: _____ °C

5.1 °C

DUDEK

FIELD CALIBRATION RECORD

Project Name: City of Beaumont

Date of Field Calibration: 11/10/20

Project Number: 11110.2020


Field Location: Beaumont area, CA

Field Crew: C. Hunter

Weather Conditions: _____

Parameter Sensor: _____

Instr. Type: YSI

Signature: 

Model: 556

Temp (using thermometer): 22.6 Temp (using meter): 23.6

Parameters / Field Measurements							General Description of Standards	
		pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (uS/cm)	Percent Error	calibration solution, supplier, exp. Date
Standard Solution Values	1	4.0		712.7		1345		
	2	7.0						
	3	10.0						
Pre-calibration Readings for Each Standard	1	4.09		711.0		1362		
	2	6.88						
	3	10.09				1322		
Post-calibration Readings for Each Standard	1	4.00		712.9		↓		
	2	7.01						
	3	10.01						

Site: CC-01

Weather Flow Visuals

Date: 11/25/20

Conditions: _____

Total width of creek 6.6

Sum of segment's widths 6.6

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1.1	0.9	1.035	1.024	
	1.1	0.9	1.362	1.378	
	1.1	1.0	1.512	1.663	
	1.1	1.0	1.876	2.063	
	1.1	0.9	0.921	0.911	
	1.1	0.7	0.674	0.518	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
16:00	25.0	7.91	483	6.81	Y

Conditions Key:
Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow
Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
 3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud
Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: CC-03

Weather Flow Visuals

Date: 11/25/20

Conditions: _____

Total width of creek 5.5

Sum of segment's widths 5.5

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1.1	0.6	0.415	0.273	
	1.1	1.0	0.921	1.013	
	1.1	0.8	2.076	1.826	
	1.1	0.6	1.432	0.948	
	1.1	0.5	0.959	0.527	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
14:45	22.0	8.22	533	7.14	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: STC-01

Weather Flow Visuals

Date: 11/25/20

Conditions: _____

Total width of creek 7

Sum of segment's widths 4

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1	0.8	2.676	2.140	
	1	0.6	2.313	1.387	
	1	0.5	1.743	0.871	
	1	0.3	0.959	0.287	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
15:00	15.0	8.35	661	8.89	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Clinical Lab of San Bernardino, Inc.

Chain of Custody

Item 5.

WO _____

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client		City of Beaumont		Destination Laboratory												Analysis Requested											Comments	Turn Around Time (TAT)													
Address:		550 E. 6th St.		<input checked="" type="checkbox"/> Clinical Grand Terrace / ELAP 1088 <input type="checkbox"/> Clinical Lompoc / ELAP 1678 <input type="checkbox"/> Other:												Total Dissolved Solids (SM 2540C)																									
Client Contact:		Beaumont, CA. 92223		<input type="checkbox"/> Nitrate-N (EPA 300.0) <input type="checkbox"/> Nitrite-N (EPA 300.0) <input type="checkbox"/> Ammonia-N (EPA 350.1) <input type="checkbox"/> Alkalinity (inc. HCO3, CO3, and OH)												<input type="checkbox"/> Ca, Mg, K, Na (EPA 200.7) <input type="checkbox"/> Sulfate (EPA 300.0) <input type="checkbox"/> Specific Conductance (SM 2510B) <input type="checkbox"/> pH (SM 4500H+B) <input type="checkbox"/> Chloride (EPA 300.0) <input type="checkbox"/> Fluoride (EPA 300.0)																									
Phone No.:		FAX No.:		Total Containers												<input type="checkbox"/> ChlorAC <input type="checkbox"/> ZnCAH6O4 <input type="checkbox"/> Na2SO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCl <input type="checkbox"/> HNO3 <input type="checkbox"/> CuH8O6 <input type="checkbox"/> NH4Cl <input type="checkbox"/> Na2S2O3 <input type="checkbox"/> Unpreserved <input type="checkbox"/> Sample Type <input type="checkbox"/> Matrix																									
System No.:		Project: Max Benefits - Beaumont GMZ		No. of Preserved Cont.																																					
Sampled By: C. Hunter		Comments:		Container ID																																					
Email results to: Ajakher@ci.beaumont.ca.us, ckhunter@dudek.com, sstuart@dudek.com																																									
Date	Time	Sample Identification		Container ID	Matrix	Unpreserved	Sample Type	ChlorAC	ZnCAH6O4	Na2SO3	NaOH	HCl	HNO3	CuH8O6	NH4Cl	Na2S2O3	Unpreserved	Sample Type	Matrix	Container ID	Total Containers	Analysis Requested											TAT								
11/25/20	16:00	CC-01		1	SW	X															2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	10
	14:45	CC-03		3	SW	X															2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	10
	15:00	STC-01		STC	SW	X															2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	10
<p>Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other</p> <p>Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush</p>																																									
Relinquished By (Sign)				Print Name / Company				Date / Time				Received By (Sign)				Print Name / Company																									
				C. Hunter / Dudek				11/25/20 16:15																																	
(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C																																									
Shipped Via: <input type="checkbox"/> Fed Ex <input type="checkbox"/> Golden State Overnight <input type="checkbox"/> UPS <input type="checkbox"/> OnTrac <input type="checkbox"/> USPS <input type="checkbox"/> Other _____																																									
Condition: <input type="checkbox"/> On Wet Ice <input type="checkbox"/> On Blu Ice <input type="checkbox"/> Intact <input type="checkbox"/> Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____																																									
Receipt Comments:																				Clinical Lab Receipt Temp.: _____ °C																					

DUDEK

FIELD CALIBRATION RECORD

Project Name: City of Beaumont

Date of Field Calibration: 11/25/20

Project Number: 11110.2020

Field Location: Beaumont area, CA

Field Crew: C. Hunter

Weather Conditions: _____

Parameter Sensor: _____

Instr. Type: YSI

Signature: 

Model: 556

Temp (using thermometer): 22.7

Temp (using meter): 23.7

Parameters / Field Measurements							General Description of Standards
	pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (µS/cm)	Percent Error	calibration solution, supplier, exp. Date
Standard Solution Values	1	4.0		712.1		1316	
	2	7.0					
	3	10.0					
Pre-calibration Readings for Each Standard	1	3.90		712.7		1317	
	2	6.96					
	3	10.17					
Post-calibration Readings for Each Standard	1	4.02		712.2		1314	
	2	6.97					
	3	9.98					

Site: CC-01

Weather Flow Visuals

Date: 12/10/20

Conditions: _____

Total width of creek 7.7

Sum of segment's widths 7.7

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1.1	1.0	0.532	0.585	
	1.1	0.9	0.748	0.740	
	1.1	1.0	0.957	1.085	
	1.1	0.9	1.119	1.107	
	1.1	0.9	1.156	1.147	
	1.1	1.0	1.015	1.116	
	1.1	0.9	0.703	0.695	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
16:15	23.5	7.82	423	6.5	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: CC-03

Weather Flow Visuals

Date: 12/10/20

Conditions: _____

Total width of creek 6

Sum of segment's widths 6

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1	0.9	1.6	1.44	
	1	1.0	1.276	1.276	
	1	0.8	1.695	1.356	
	1	0.6	1.560	0.936	
	1	0.5	1.717	0.708	
	1	0.3	0.387	0.116	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
15:45	20.8	8.04	535	6.92	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F

Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F

Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: STC-01

Weather Flow Visuals

Date: 12/10/20

Conditions: _____

Total width of creek 4

Sum of segment's widths 4

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1	0.8	1.424	1.139	
	1	0.6	1.255	0.753	
	1	0.7	1.22	0.488	
	1	0.3	0.8	0.240	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
15:00	15.0	8.35	669	8.89	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow
Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
 3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

0/0/6

Item 5.

WO 2012129

Clinical Lab of San Bernardino, Inc.

Chain of Custody

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client		City of Beaumont		Destination Laboratory										Analysis Requested										Turn Around Time (TAT)					
Address:		550 E. 6th St. Beaumont, CA. 92223		<input checked="" type="checkbox"/> Clinical Grand Terrace / ELAP 1088 <input type="checkbox"/> Clinical Lompoc / ELAP 1678 <input type="checkbox"/> Other:										Total Dissolved Solids (SM 2540C) Nitrate-N (EPA 300.0) Nitrite-N (EPA 300.0) Ammonia-N (EPA 350.1) Alkalinity (inc. HCO ₃ , CO ₃ , and OH) Ca, Mg, K, Na (EPA 200.7) Sulfate (EPA 300.0) Specific Conductance (SM 2510B) pH (SM 4500H+B) Chloride (EPA 300.0) Fluoride (EPA 300.0)											Comments				
Client Contact:				Container ID		No. of Preserved Cont.										Total Containers	Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO ₃ , CO ₃ , and OH)	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)		pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	
Phone No.:		FAX No.:		Matrix		Sample Type																							
System No.:		Max Benefits - Beaumont GMZ		Sample Type		Unpreserved										Total Containers	Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO ₃ , CO ₃ , and OH)	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)		
Project:				Sample Type		Unpreserved																							
Sampled By:		C Hunter		Sample Type		Unpreserved										Total Containers	Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO ₃ , CO ₃ , and OH)	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)		
Comments:				Sample Type		Unpreserved																							
Email results to:		Ajakher@ci.beaumont.ca.us, ckhunter@dudek.com, sstuart@dudek.com		Sample Type		Unpreserved										Total Containers	Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO ₃ , CO ₃ , and OH)	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)		
Date	Time	Sample Identification		Container ID	Matrix	Unpreserved	Na2S2O3	NH4Cl	G6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnCl2	ChlorAC													Total Containers	Total Dissolved Solids (SM 2540C)
12/10/20	16:15	CC-01		1	SW	X										2	X	X	X	X	X	X	X	X	X	X	X		10
	15:45	CC-03		3	SW	X										2	X	X	X	X	X	X	X	X	X	X	X		10
	15:00	STC-01		STC	SW	X										2	X	X	X	X	X	X	X	X	X	X	X		10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
	C. Hunter / Dudek	12/10/20 16:30		STS / CUSB
	STS / CUSB	12/11/2020/1020		STS / CUSB
	STS / CUSB	12/11/2020/1135		STS / CUSB

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C

Shipped Via: Fed Ex Golden State Overnight UPS OnTrac USPS Other _____

Condition: On Wet Ice On Blu Ice Intact Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____

Receipt Comments: _____ Clinical Lab Receipt Temp.: 11.1 °C

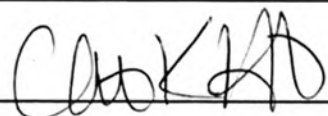
DUDEK

FIELD CALIBRATION RECORD

Project Name: City of Beaumont

Project Number: 11110.2020

Field Crew: C. Hunter

Signature: 

Date of Field Calibration: 12/10/20

Field Location: Beaumont area, CA

Weather Conditions: _____

Parameter Sensor: _____

Instr. Type: YSI

Model: 556

Temp (using thermometer): 22.7 Temp (using meter): 23.7

Parameters / Field Measurements							General Description of Standards
	pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (uS/cm)	Percent Error	calibration solution, supplier, exp. Date
Standard Solution Values	1	4.0	712.9		1323		
	2	7.0					
	3	10.0					
Pre-calibration Readings for Each Standard	1	4.02	713.0		1326		
	2	7.03					
	3	10.05					
Post-calibration Readings for Each Standard	1	4.01	712.8		1324		
	2	6.99					
	3	9.99					

Site: CC-01

Weather Flow Visuals

Date: 12/23/20

Conditions: _____

Total width of creek 7.7

Sum of segment's widths 7.7

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1.1	1.0	0.752	0.827	
	1.1	0.8	0.977	0.859	
	1.1	0.8	1.267	1.144	
	1.1	0.8	1.589	1.250	
	1.1	0.9	1.585	1.569	
	1.1	1.0	1.125	1.237	
	1.1	0.9	0.773	0.772	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
10:15	22.2	7.91	511	6.97	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: CL-03

Weather Flow Visuals

Date: 12/23/20

Conditions: _____

Total width of creek 6

Sum of segment's widths 6

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1	1.0	1.450	1.450	
	1	0.8	1.356	1.081	
	1	0.7	1.632	1.142	
	1	0.6	1.971	1.182	
	1	0.6	1.321	0.792	
	1	0.5	0.177	0.088	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
15:45	19.2	8.18	777	7.50	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: STC-01

Weather Flow Visuals

Date: 12/23/20

Conditions: _____

Total width of creek 4

Sum of segment's widths 4

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft ³ /s (w x d x v)	Total Flow Through Creek in ft ³ /s
	1	0.8	1.232	0.985	
	1	0.6	1.057	0.637	
	1	0.7	1.369	0.547	
	1	0.3	0.473	0.132	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
15:00	12.6	8.26	694	9.24	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
 3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces

3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
 Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Clinical Lab of San Bernardino, Inc.

Chain of Custody

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

2/0/6
WO 206
Item 5.

Client		City of Beaumont		Destination Laboratory										Analysis Requested										Turn Around Time (TAT)						
Address:		550 E. 6th St. Beaumont, CA. 92223		<input checked="" type="checkbox"/> Clinical Grand Terrace / ELAP 1088 <input type="checkbox"/> Clinical Lompoc / ELAP 1678 <input type="checkbox"/> Other:										Total Dissolved Solids (SM 2540C) Nitrate-N (EPA 300.0) Nitrite-N (EPA 300.0) Ammonia-N (EPA 350.1) Alkalinity (inc. HCO ₃ , CO ₃ , and OH) Ca, Mg, K, Na (EPA 200.7) Sulfate (EPA 300.0) Specific Conductance (SM 2510B) pH (SM 4500H+B) Chloride (EPA 300.0) Fluoride (EPA 300.0)											Comments					
Client Contact:		FAX No.:		Total Containers										No. of Preserved Cont.																
System No.:		Project: Max Benefits - Beaumont GMZ		Container ID	Matrix	Sample Type	Unpreserved	Na2S2O3	NH4Cl	G6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnCl2H6O4	ChlorAC														
Phone No.:																														
Sampled By: C. Hunter																														
Comments:		Email results to: Ajakher@ci.beaumont.ca.us, ckhunter@dudek.com, sstuart@dudek.com																												
Date	Time	Sample Identification		Container ID	Matrix	Sample Type	Unpreserved	Na2S2O3	NH4Cl	G6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnCl2H6O4	ChlorAC	Total Containers	Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO ₃ , CO ₃ , and OH)	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Comments	TAT
12/23/20	16:15	CC-01		1	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
	15:45	CC-03		3	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
	15:00	STC-01		57L	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
	C. Hunter / Dudek	12/23/20 16:30		Sh. Styles / CSSB
	Sh. Styles / CSSB	12/24/2020 7:55		J.A. CSSB
		12/24/2020 8:48		

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C

Shipped Via: Fed Ex Golden State Overnight UPS OnTrac USPS Other _____

Condition: On Wet Ice On Blu Ice Intact Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____

Receipt Comments: _____ Clinical Lab Receipt Temp.: 1.3A °C

DUDEK

FIELD CALIBRATION RECORD

Project Name: City of Beaumont

Date of Field Calibration: 12/23/20

Project Number: 11110.2020

Field Location: Beaumont area, CA

Field Crew: C. Hunter

Weather Conditions: _____

Parameter Sensor: _____

Instr. Type: YSI

Signature: 

Model: 556

Temp (using thermometer): 22.8

Temp (using meter): 23.9

Parameters / Field Measurements							General Description of Standards
	pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (µS/cm)	Percent Error	calibration solution, supplier, exp. Date
Standard Solution Values	1	4.0	712.0		1335		
	2	7.0					
	3	10.0					
Pre-calibration Readings for Each Standard	1	3.96	715.2		1369		
	2	6.90					
	3	10.11					
Post-calibration Readings for Each Standard	1	4.00	712.0		1333		
	2	6.99					
	3	9.98					

APPENDIX L

**Analytical Laboratory Reports for Surface Water Samples
Collected in the Beaumont Groundwater Management Zone
in 2020**

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20A1447
Received: 01/18/20 10:05
Reported: 01/29/20

CC - 01 **20A1447-01 (Water)** **Sample Date:** 01/17/20 16:30 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	240	mg/L	5.0		01/22/20	01/22/20	2004004	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	01/22/20	01/23/20	2004070	
Bicarbonate (HCO3)	SM 2320 B	300	mg/L	5.0		01/22/20	01/22/20	2004004	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		01/22/20	01/22/20	2004004	
Chloride (Cl)	EPA 300.0	83	mg/L	1.0	0.075	01/19/20	01/19/20	2003136	
Specific Conductance (E.C.)	SM 2510B	810	umhos/cm	2.0	0.20	01/20/20	01/20/20	2004004	
Fluoride (F)	EPA 300.0	0.51	mg/L	0.10	0.026	01/19/20	01/19/20	2003136	
Hardness, Total (as CaCO3)	Calculated	200	mg/L	6.6		01/23/20	01/23/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		01/22/20	01/22/20	2004004	
Inorganic Nitrogen	Calculated	4.6	mg/L	1.3		01/22/20	01/23/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	4.3	mg/L	0.40	0.12	01/19/20	01/19/20	2003136	
Nitrite as N (NO2-N)	EPA 300.0	0.26	mg/L	0.40	0.17	01/19/20	01/19/20	2003136	J
pH (Lab)	SM 4500HB	7.7	pH Units			01/20/20	01/20/20	2004004	
Sulfate (SO4)	EPA 300.0	33	mg/L	0.50	0.14	01/19/20	01/19/20	2003136	
Total Filterable Residue/TDS	SM 2540C	450	mg/L	5.0	3.1	01/20/20	01/22/20	2004017	
Metals									
Calcium (Ca)	EPA 200.7	52	mg/L	1.0	0.080	01/23/20	01/23/20	2004100	
Magnesium (Mg)	EPA 200.7	16	mg/L	1.0	0.51	01/23/20	01/23/20	2004100	
Potassium (K)	EPA 200.7	20	mg/L	1.0	0.18	01/23/20	01/23/20	2004100	
Sodium (Na)	EPA 200.7	100	mg/L	1.0	0.21	01/23/20	01/23/20	2004100	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20A1447
Received: 01/18/20 10:05
Reported: 01/29/20

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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CC - 03 **20A1447-02 (Water)** **Sample Date:** 01/17/20 16:00 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	220	mg/L	5.0		01/22/20	01/22/20	2004004	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	01/22/20	01/23/20	2004070	
Bicarbonate (HCO3)	SM 2320 B	270	mg/L	5.0		01/22/20	01/22/20	2004004	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		01/22/20	01/22/20	2004004	
Chloride (Cl)	EPA 300.0	78	mg/L	1.0	0.075	01/19/20	01/19/20	2003136	
Specific Conductance (E.C.)	SM 2510B	760	umhos/cm	2.0	0.20	01/20/20	01/20/20	2004004	
Fluoride (F)	EPA 300.0	0.46	mg/L	0.10	0.026	01/19/20	01/19/20	2003136	
Hardness, Total (as CaCO3)	Calculated	190	mg/L	6.6		01/23/20	01/23/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		01/22/20	01/22/20	2004004	
Inorganic Nitrogen	Calculated	4.8	mg/L	1.3		01/22/20	01/23/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	4.8	mg/L	0.40	0.12	01/19/20	01/19/20	2003136	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	01/19/20	01/19/20	2003136	
pH (Lab)	SM 4500HB	8.2	pH Units			01/20/20	01/20/20	2004004	
Sulfate (SO4)	EPA 300.0	32	mg/L	0.50	0.14	01/19/20	01/19/20	2003136	
Total Filterable Residue/TDS	SM 2540C	430	mg/L	5.0	3.1	01/20/20	01/22/20	2004017	
Metals									
Calcium (Ca)	EPA 200.7	49	mg/L	1.0	0.080	01/23/20	01/23/20	2004100	
Magnesium (Mg)	EPA 200.7	15	mg/L	1.0	0.51	01/23/20	01/23/20	2004100	
Potassium (K)	EPA 200.7	18	mg/L	1.0	0.18	01/23/20	01/23/20	2004100	
Sodium (Na)	EPA 200.7	96	mg/L	1.0	0.21	01/23/20	01/23/20	2004100	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20A1447
Received: 01/18/20 10:05
Reported: 01/29/20

STC - 01	20A1447-03 (Water)	Sample Date: 01/17/20 15:00	Sampler: C. Hunter						
Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier

General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	250	mg/L	5.0		01/22/20	01/22/20	2004004	
Ammonia as N (NH3-N)	EPA 350.1	0.76	mg/L	0.50	0.15	01/23/20	01/24/20	2004111	
Bicarbonate (HCO3)	SM 2320 B	300	mg/L	5.0		01/22/20	01/22/20	2004004	
Carbonate (CO3)	SM 2320B	2.9	mg/L	5.0		01/22/20	01/22/20	2004004	J
Chloride (Cl)	EPA 300.0	79	mg/L	1.0	0.075	01/19/20	01/19/20	2003136	
Specific Conductance (E.C.)	SM 2510B	780	umhos/cm	2.0	0.20	01/20/20	01/20/20	2004004	
Fluoride (F)	EPA 300.0	0.48	mg/L	0.10	0.026	01/19/20	01/19/20	2003136	
Hardness, Total (as CaCO3)	Calculated	230	mg/L	6.6		01/23/20	01/23/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		01/22/20	01/22/20	2004004	
Inorganic Nitrogen	Calculated	3.66	mg/L	0.50		01/23/20	01/24/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	2.9	mg/L	0.40	0.12	01/19/20	01/19/20	2003136	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	01/19/20	01/19/20	2003136	
pH (Lab)	SM 4500HB	8.3	pH Units			01/20/20	01/20/20	2004004	
Sulfate (SO4)	EPA 300.0	34	mg/L	0.50	0.14	01/19/20	01/19/20	2003136	
Total Filterable Residue/TDS	SM 2540C	440	mg/L	5.0	3.1	01/20/20	01/22/20	2004017	

Metals

Calcium (Ca)	EPA 200.7	61	mg/L	1.0	0.080	01/23/20	01/23/20	2004100	
Magnesium (Mg)	EPA 200.7	18	mg/L	1.0	0.51	01/23/20	01/23/20	2004100	
Potassium (K)	EPA 200.7	13	mg/L	1.0	0.18	01/23/20	01/23/20	2004100	
Sodium (Na)	EPA 200.7	95	mg/L	1.0	0.21	01/23/20	01/23/20	2004100	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20A1447
Received: 01/18/20 10:05
Reported: 01/29/20

STC - 02 **20A1447-04 (Water)** **Sample Date:** 01/17/20 15:30 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	270	mg/L	5.0		01/22/20	01/22/20	2004004	
Ammonia as N (NH3-N)	EPA 350.1	0.56	mg/L	0.50	0.15	01/23/20	01/24/20	2004111	
Bicarbonate (HCO3)	SM 2320 B	330	mg/L	5.0		01/22/20	01/22/20	2004004	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		01/22/20	01/22/20	2004004	
Chloride (Cl)	EPA 300.0	36	mg/L	1.0	0.075	01/19/20	01/19/20	2003136	
Specific Conductance (E.C.)	SM 2510B	630	umhos/cm	2.0	0.20	01/20/20	01/20/20	2004004	
Fluoride (F)	EPA 300.0	0.48	mg/L	0.10	0.026	01/19/20	01/19/20	2003136	
Hardness, Total (as CaCO3)	Calculated	260	mg/L	6.6		01/23/20	01/23/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		01/22/20	01/22/20	2004004	
Inorganic Nitrogen	Calculated	0.56	mg/L	0.50		01/23/20	01/24/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	ND	mg/L	0.40	0.12	01/19/20	01/19/20	2003136	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	01/19/20	01/19/20	2003136	
pH (Lab)	SM 4500HB	7.9	pH Units			01/20/20	01/20/20	2004004	
Sulfate (SO4)	EPA 300.0	19	mg/L	0.50	0.14	01/19/20	01/19/20	2003136	
Total Filterable Residue/TDS	SM 2540C	360	mg/L	5.0	3.1	01/20/20	01/22/20	2004017	

Metals

Calcium (Ca)	EPA 200.7	67	mg/L	1.0	0.080	01/23/20	01/23/20	2004100
Magnesium (Mg)	EPA 200.7	23	mg/L	1.0	0.51	01/23/20	01/23/20	2004100
Potassium (K)	EPA 200.7	5.1	mg/L	1.0	0.18	01/23/20	01/23/20	2004100
Sodium (Na)	EPA 200.7	57	mg/L	1.0	0.21	01/23/20	01/23/20	2004100

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

Clinical Lab of San Bernardino, Inc. Chain of Custody
 21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

0/0/8

WO 20A1447

Clinical City of Beaumont
 550 E. 6th St.
 Beaumont, CA. 92223
Client Contact: Amer Jaker
 Phone No.: 951-769-8520 FAX No.: 951-769-8526
System No.:
Project: Max Benefits - Beaumont GMZ
Sampled By: C. Hunter
Comments:
 Email results to: Ajakher@cl.beaumont.ca.us,
 ckhunter@dudek.com, sstuar@dudek.com

Date	Time	Sample Identification	SW	X	Analysis Requested	Comments
1/17/20	16:30	CC-01	1 SW	X	Fluoride (EPA 300.0) Chloride (EPA 300.0) pH (SM 4500H+B) Specific Conductance (SM 2510B) Sulfate (EPA 300.0) Ca, Mg, K, Na (EPA 200.7) Alkalinity (inc. HCO3, CO3, and OH) Ammonia-N (EPA 350.1) Nitrite-N (EPA 300.0) Nitrate-N (EPA 300.0) Total Dissolved Solids (SM 2540C)	
	16:00	CC-03	3 SW	X	Fluoride (EPA 300.0) Chloride (EPA 300.0) pH (SM 4500H+B) Specific Conductance (SM 2510B) Sulfate (EPA 300.0) Ca, Mg, K, Na (EPA 200.7) Alkalinity (inc. HCO3, CO3, and OH) Ammonia-N (EPA 350.1) Nitrite-N (EPA 300.0) Nitrate-N (EPA 300.0) Total Dissolved Solids (SM 2540C)	
	15:00	STC-01	511 SW	X	Fluoride (EPA 300.0) Chloride (EPA 300.0) pH (SM 4500H+B) Specific Conductance (SM 2510B) Sulfate (EPA 300.0) Ca, Mg, K, Na (EPA 200.7) Alkalinity (inc. HCO3, CO3, and OH) Ammonia-N (EPA 350.1) Nitrite-N (EPA 300.0) Nitrate-N (EPA 300.0) Total Dissolved Solids (SM 2540C)	
	15:30	STC-02	512 SW	X	Fluoride (EPA 300.0) Chloride (EPA 300.0) pH (SM 4500H+B) Specific Conductance (SM 2510B) Sulfate (EPA 300.0) Ca, Mg, K, Na (EPA 200.7) Alkalinity (inc. HCO3, CO3, and OH) Ammonia-N (EPA 350.1) Nitrite-N (EPA 300.0) Nitrate-N (EPA 300.0) Total Dissolved Solids (SM 2540C)	

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater S - Stormwater Runoff S - Sludge O - Other
 Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Wet

Submitted By (Sign): Chris Martinez
Date: 1/18/2020
Print Name: Chris Martinez
Company: CLTB

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C
 Shipped Via: Fed Ex Golden State Overnight UPS On Trac USPS Other
 Condition: On Wet Ice On Blu Ice Intact Custody Seals Samples / COC Checked By: _____
 Receipt Comments: _____
 Work Order Logged By: _____
 Clinical Lab Receipt Temp.: 4.0 °C

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20B0499
Received: 02/06/20 09:05
Reported: 02/17/20

CC - 01 20B0499-01 (Water) Sample Date: 02/05/20 15:15 Sampler: C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO ₃)	SM 2320 B	240	mg/L	5.0		02/12/20	02/12/20	2006121	
Ammonia as N (NH ₃ -N)	EPA 350.1	ND	mg/L	0.50	0.15	02/11/20	02/12/20	2007058	
Bicarbonate (HCO ₃)	SM 2320 B	290	mg/L	5.0		02/12/20	02/12/20	2006121	
Carbonate (CO ₃)	SM 2320B	ND	mg/L	5.0		02/12/20	02/12/20	2006121	
Chloride (Cl)	EPA 300.0	81	mg/L	1.0	0.075	02/06/20	02/06/20	2006124	
Specific Conductance (E.C.)	SM 2510B	790	umhos/cm	2.0	0.20	02/06/20	02/06/20	2006121	
Fluoride (F)	EPA 300.0	0.45	mg/L	0.10	0.026	02/06/20	02/06/20	2006124	
Hardness, Total (as CaCO ₃)	Calculated	190	mg/L	6.6		02/13/20	02/13/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		02/12/20	02/12/20	2006121	
Inorganic Nitrogen	Calculated	2.1	mg/L	1.3		02/11/20	02/12/20	[CALC]	
Nitrate as N (NO ₃ -N)	EPA 300.0	2.1	mg/L	0.40	0.12	02/06/20	02/06/20	2006124	
Nitrite as N (NO ₂ -N)	EPA 300.0	ND	mg/L	0.40	0.17	02/06/20	02/06/20	2006124	
pH (Lab)	SM 4500HB	8.1	pH Units			02/06/20	02/06/20	2006121	
Sulfate (SO ₄)	EPA 300.0	32	mg/L	0.50	0.14	02/06/20	02/06/20	2006124	
Total Filterable Residue/TDS	SM 2540C	470	mg/L	5.0	3.1	02/06/20	02/11/20	2006133	

Metals

Calcium (Ca)	EPA 200.7	51	mg/L	1.0	0.080	02/13/20	02/13/20	2007125	
Magnesium (Mg)	EPA 200.7	16	mg/L	1.0	0.51	02/13/20	02/13/20	2007125	
Potassium (K)	EPA 200.7	18	mg/L	1.0	0.18	02/13/20	02/13/20	2007125	
Sodium (Na)	EPA 200.7	96	mg/L	1.0	0.21	02/13/20	02/13/20	2007125	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20B0499
Received: 02/06/20 09:05
Reported: 02/17/20

CC - 03 **20B0499-02 (Water)** **Sample Date:** 02/05/20 14:15 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	250	mg/L	5.0		02/12/20	02/12/20	2006121	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	02/11/20	02/12/20	2007058	
Bicarbonate (HCO3)	SM 2320 B	290	mg/L	5.0		02/12/20	02/12/20	2006121	
Carbonate (CO3)	SM 2320B	3.8	mg/L	5.0		02/12/20	02/12/20	2006121	J
Chloride (Cl)	EPA 300.0	80	mg/L	1.0	0.075	02/06/20	02/06/20	2006124	
Specific Conductance (E.C.)	SM 2510B	780	umhos/cm	2.0	0.20	02/06/20	02/06/20	2006121	
Fluoride (F)	EPA 300.0	0.49	mg/L	0.10	0.026	02/06/20	02/06/20	2006124	
Hardness, Total (as CaCO3)	Calculated	190	mg/L	6.6		02/13/20	02/13/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		02/12/20	02/12/20	2006121	
Inorganic Nitrogen	Calculated	1.9	mg/L	1.3		02/11/20	02/12/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	1.9	mg/L	0.40	0.12	02/06/20	02/06/20	2006124	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	02/06/20	02/06/20	2006124	
pH (Lab)	SM 4500HB	8.4	pH Units			02/06/20	02/06/20	2006121	
Sulfate (SO4)	EPA 300.0	32	mg/L	0.50	0.14	02/06/20	02/06/20	2006124	
Total Filterable Residue/TDS	SM 2540C	500	mg/L	5.0	3.1	02/06/20	02/11/20	2006133	

Metals

Calcium (Ca)	EPA 200.7	50	mg/L	1.0	0.080	02/13/20	02/13/20	2007125	
Magnesium (Mg)	EPA 200.7	16	mg/L	1.0	0.51	02/13/20	02/13/20	2007125	
Potassium (K)	EPA 200.7	18	mg/L	1.0	0.18	02/13/20	02/13/20	2007125	
Sodium (Na)	EPA 200.7	93	mg/L	1.0	0.21	02/13/20	02/13/20	2007125	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of 550 East 6th Street Beaumont CA, 92223	Project: Maximum Benefit-Surface Water Sub Project: Beaumont GMZ Project Manager: Thaxton Van Belle	Work Order: 20B0499 Received: 02/06/20 09:05 Reported: 02/17/20
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STC - 01	20B0499-03 (Water)	Sample Date: 02/05/20 13:30	Sampler: C. Hunter
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Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	270	mg/L	5.0		02/12/20	02/12/20	2006121	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	02/11/20	02/12/20	2007058	
Bicarbonate (HCO3)	SM 2320 B	320	mg/L	5.0		02/12/20	02/12/20	2006121	
Carbonate (CO3)	SM 2320B	7.7	mg/L	5.0		02/12/20	02/12/20	2006121	
Chloride (Cl)	EPA 300.0	82	mg/L	1.0	0.075	02/06/20	02/06/20	2006124	
Specific Conductance (E.C.)	SM 2510B	820	umhos/cm	2.0	0.20	02/06/20	02/06/20	2006121	
Fluoride (F)	EPA 300.0	0.55	mg/L	0.10	0.026	02/06/20	02/06/20	2006124	
Hardness, Total (as CaCO3)	Calculated	240	mg/L	6.6		02/13/20	02/13/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		02/12/20	02/12/20	2006121	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		02/11/20	02/12/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	1.2	mg/L	0.40	0.12	02/06/20	02/06/20	2006124	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	02/06/20	02/06/20	2006124	
pH (Lab)	SM 4500HB	8.5	pH Units			02/06/20	02/06/20	2006121	
Sulfate (SO4)	EPA 300.0	35	mg/L	0.50	0.14	02/06/20	02/06/20	2006124	
Total Filterable Residue/TDS	SM 2540C	480	mg/L	5.0	3.1	02/06/20	02/11/20	2006133	

Metals									
Calcium (Ca)	EPA 200.7	64	mg/L	1.0	0.080	02/13/20	02/13/20	2007125	
Magnesium (Mg)	EPA 200.7	19	mg/L	1.0	0.51	02/13/20	02/13/20	2007125	
Potassium (K)	EPA 200.7	12	mg/L	1.0	0.18	02/13/20	02/13/20	2007125	
Sodium (Na)	EPA 200.7	91	mg/L	1.0	0.21	02/13/20	02/13/20	2007125	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)
 pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.
 ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
 Client Services Manager

Clinical Lab of San Bernardino, Inc.

Chain of Custody

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

0/0/6
WO# 20B0499

Client		Destination Laboratory		Analysis Requested												Turn Around Time (TAT)																																																																																																																																																																																																
City of Beaumont 550 E. 6th St. Beaumont, CA. 92223		[X] Clinical Grand Terrace / ELAP 1088 [] Clinical Lompoc / ELAP 1678 [] Other:		<table border="1"> <thead> <tr> <th rowspan="2">Analysis Requested</th> <th colspan="12">No. of Preserved Cont.</th> </tr> <tr> <th>Total Containers</th> <th>ChlorAC</th> <th>ZnC4H6O4</th> <th>Na2SO3</th> <th>NaOH</th> <th>HCl</th> <th>HNO3</th> <th>C6H8O6</th> <th>NH4Cl</th> <th>Na2S2O3</th> <th>Unpreserved</th> <th>Sample Type</th> <th>Matrix</th> <th>Container ID</th> </tr> </thead> <tbody> <tr> <td>Fluoride (EPA 300.0)</td> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>SW</td> <td>1</td> </tr> <tr> <td>Chloride (EPA 300.0)</td> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>SW</td> <td>3</td> </tr> <tr> <td>pH (SM 4500H+B)</td> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>SW</td> <td>STC-01</td> </tr> <tr> <td>Specific Conductance (SM 2510B)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Sulfate (EPA 300.0)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Ca, Mg, K, Na (EPA 200.7)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Alkalinity (inc. HCO3, CO3, and OH)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Ammonia-N (EPA 350.1)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Nitrite-N (EPA 300.0)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Nitrate-N (EPA 300.0)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Total Dissolved Solids (SM 2540C)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>												Analysis Requested	No. of Preserved Cont.												Total Containers	ChlorAC	ZnC4H6O4	Na2SO3	NaOH	HCl	HNO3	C6H8O6	NH4Cl	Na2S2O3	Unpreserved	Sample Type	Matrix	Container ID	Fluoride (EPA 300.0)	2											X	SW	1	Chloride (EPA 300.0)	2											X	SW	3	pH (SM 4500H+B)	2											X	SW	STC-01	Specific Conductance (SM 2510B)															Sulfate (EPA 300.0)															Ca, Mg, K, Na (EPA 200.7)															Alkalinity (inc. HCO3, CO3, and OH)															Ammonia-N (EPA 350.1)															Nitrite-N (EPA 300.0)															Nitrate-N (EPA 300.0)															Total Dissolved Solids (SM 2540C)															10
Analysis Requested	No. of Preserved Cont.																																																																																																																																																																																																															
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Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
	C. Hunter / Dudek	2/5/20 15:40		S. Styles / CUSB
	S. Styles / CUSB	2/6/2020 18:20		J. Hunter / CUSB
		2/6/2020-9:05		

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other
 Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other
 TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Work Order Logged By: _____
 Clinical Lab Receipt Temp.: 38 °C

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20B1180
Received: 02/14/20 11:30
Reported: 02/25/20

STC - 01	20B1180-03 (Water)	Sample Date: 02/13/20 13:00	Sampler: C. Hunter						
Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier

General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	280	mg/L	5.0		02/18/20	02/18/20	2007153	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	02/19/20	02/19/20	2008030	
Bicarbonate (HCO3)	SM 2320 B	330	mg/L	5.0		02/18/20	02/18/20	2007153	
Carbonate (CO3)	SM 2320B	2.9	mg/L	5.0		02/18/20	02/18/20	2007153	J
Chloride (Cl)	EPA 300.0	83	mg/L	1.0	0.075	02/14/20	02/14/20	2007150	
Specific Conductance (E.C.)	SM 2510B	830	umhos/cm	2.0	0.20	02/18/20	02/18/20	2007153	
Fluoride (F)	EPA 300.0	0.51	mg/L	0.10	0.026	02/14/20	02/14/20	2007150	
Hardness, Total (as CaCO3)	Calculated	230	mg/L	6.6		02/19/20	02/19/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		02/18/20	02/18/20	2007153	
Inorganic Nitrogen	Calculated	2.7	mg/L	1.3		02/19/20	02/19/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	2.7	mg/L	0.40	0.12	02/14/20	02/14/20	2007150	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	02/14/20	02/14/20	2007150	
pH (Lab)	SM 4500HB	8.3	pH Units			02/14/20	02/14/20	2007153	
Sulfate (SO4)	EPA 300.0	37	mg/L	0.50	0.14	02/14/20	02/14/20	2007150	
Total Filterable Residue/TDS	SM 2540C	480	mg/L	5.0	3.1	02/17/20	02/18/20	2008020	

Metals

Calcium (Ca)	EPA 200.7	62	mg/L	1.0	0.080	02/19/20	02/19/20	2008069	
Magnesium (Mg)	EPA 200.7	19	mg/L	1.0	0.51	02/19/20	02/19/20	2008069	
Potassium (K)	EPA 200.7	12	mg/L	1.0	0.18	02/19/20	02/19/20	2008069	
Sodium (Na)	EPA 200.7	86	mg/L	1.0	0.21	02/19/20	02/19/20	2008069	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)
pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.
ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

Clinical Lab of San Bernardino, Inc.

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Chain of Custody

c/o/k

WO 20B1180

City of Beaumont		Destination Laboratory										Analysis Requested										Turn Around Time (TAT)
Address: 550 E. 6th St. Beaumont, CA. 92223		<input checked="" type="checkbox"/> Clinical Grand Terrace / ELAP 1088 <input type="checkbox"/> Clinical Lompoc / ELAP 1678 <input type="checkbox"/> Other:										Fluoride (EPA 300.0) Chloride (EPA 300.0) pH (SM 4500H+B) Specific Conductance (SM 2510B) Sulfate (EPA 300.0) Ca, Mg, K, Na (EPA 200.7) Alkalinity (inc. HCO ₃ , CO ₃ , and OH) Ammonia-N (EPA 350.1) Nitrite-N (EPA 300.0) Nitrate-N (EPA 300.0) Total Dissolved Solids (SM 2540C)										
Date	Time	Sample Identification	Container ID	Matrix	Sample Type	No. of Preserved Cont.										Total Containers	Comments					
						Unpreserved	Na ₂ S ₂ O ₃	NH ₄ Cl	C ₆ H ₈ O ₆	HNO ₃	HCl	NaOH	Na ₂ SO ₃	ZnCl ₂	ChlorAC							
2/13/20	1430	CC-01	1	SW	X													2				
	1400	CC-03	3	SW	X													2				
	1300	STC-01	500	SW	X													2				
Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush																						
Relinquished By (Sign)		Print Name / Company		Date / Time		Received By (Sign)		Print Name / Company		Date / Time		Received By (Sign)		Print Name / Company		Date / Time		Received By (Sign)		Print Name / Company		
<i>[Signature]</i>		Chris Martinez		2-14-2020 11:30		<i>[Signature]</i>		Chris Martinez		2-14-2020 9:50		<i>[Signature]</i>		Chris Martinez		2-14-2020 11:30		<i>[Signature]</i>		Hebecca Hernandez		

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C
 Shipped Via: Fed Ex Golden State Overnight UPS On Trac USPS Other _____
 Condition: On Wet Ice On Blu Ice Intact Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____
 Receipt Comments: _____ Clinical Lab Receipt Temp.: 37 °C

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20C0103
Received: 03/03/20 09:35
Reported: 03/13/20

STC - 02	20C0103-04 (Water)	Sample Date: 03/02/20 11:15	Sampler: C. Hunter						
Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier

General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	240	mg/L	5.0		03/06/20	03/06/20	2010036	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	03/09/20	03/10/20	2011019	
Bicarbonate (HCO3)	SM 2320 B	300	mg/L	5.0		03/06/20	03/06/20	2010036	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		03/06/20	03/06/20	2010036	
Chloride (Cl)	EPA 300.0	23	mg/L	1.0	0.075	03/03/20	03/03/20	2010038	
Specific Conductance (E.C.)	SM 2510B	550	umhos/cm	2.0	0.20	03/03/20	03/03/20	2010036	
Fluoride (F)	EPA 300.0	0.45	mg/L	0.10	0.026	03/03/20	03/03/20	2010038	
Hardness, Total (as CaCO3)	Calculated	220	mg/L	6.6		03/12/20	03/12/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		03/06/20	03/06/20	2010036	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		03/09/20	03/10/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	0.44	mg/L	0.40	0.12	03/03/20	03/03/20	2010038	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	03/03/20	03/03/20	2010038	
pH (Lab)	SM 4500HB	8.1	pH Units			03/03/20	03/03/20	2010036	
Sulfate (SO4)	EPA 300.0	14	mg/L	0.50	0.14	03/03/20	03/03/20	2010038	
Total Filterable Residue/TDS	SM 2540C	330	mg/L	5.0	3.1	03/03/20	03/04/20	2010058	

Metals

Calcium (Ca)	EPA 200.7	54	mg/L	1.0	0.080	03/12/20	03/12/20	2011102	
Magnesium (Mg)	EPA 200.7	20	mg/L	1.0	0.51	03/12/20	03/12/20	2011102	
Potassium (K)	EPA 200.7	4.4	mg/L	1.0	0.18	03/12/20	03/12/20	2011102	
Sodium (Na)	EPA 200.7	42	mg/L	1.0	0.21	03/12/20	03/12/20	2011102	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)
pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.
ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20C1219
Received: 03/15/20 09:45
Reported: 04/15/20

STC - 02	20C1219-04 (Water)	Sample Date: 03/14/20 13:15	Sampler: C. Hunter						
Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier

General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	120	mg/L	5.0		03/20/20	03/20/20	2012038	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	03/23/20	03/23/20	2012117	
Bicarbonate (HCO3)	SM 2320 B	150	mg/L	5.0		03/20/20	03/20/20	2012038	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		03/20/20	03/20/20	2012038	
Chloride (Cl)	EPA 300.0	15	mg/L	1.0	0.075	03/15/20	03/15/20	2011143	
Specific Conductance (E.C.)	SM 2510B	310	umhos/cm	2.0	0.20	03/17/20	03/17/20	2012038	
Fluoride (F)	EPA 300.0	0.21	mg/L	0.10	0.026	03/15/20	03/15/20	2011143	
Hardness, Total (as CaCO3)	Calculated	120	mg/L	6.6		03/19/20	03/19/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		03/20/20	03/20/20	2012038	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		03/23/20	03/23/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	0.32	mg/L	0.40	0.12	03/15/20	03/15/20	2011143	J
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	03/15/20	03/15/20	2011143	
pH (Lab)	SM 4500HB	8.0	pH Units			03/17/20	03/17/20	2012038	
Sulfate (SO4)	EPA 300.0	10	mg/L	0.50	0.14	03/15/20	03/15/20	2011143	
Total Filterable Residue/TDS	SM 2540C	200	mg/L	5.0	3.1	03/16/20	03/18/20	2011110	

Metals

Calcium (Ca)	EPA 200.7	31	mg/L	1.0	0.080	03/19/20	03/19/20	2012115	
Magnesium (Mg)	EPA 200.7	10	mg/L	1.0	0.51	03/19/20	03/19/20	2012115	
Potassium (K)	EPA 200.7	3.8	mg/L	1.0	0.18	03/19/20	03/19/20	2012115	
Sodium (Na)	EPA 200.7	22	mg/L	1.0	0.21	03/19/20	03/19/20	2012115	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)
pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.
ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

0-0-8
WO 20C1219

Clinical Lab of San Bernardino, Inc. Chain of Custody
21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client		City of Beaumont		Destination Laboratory		Analysis Requested		Turn Around Time (TAT)
Address:		550 E. 6th St. Beaumont, CA. 92223		[X] Clinical Grand Terrace / ELAP 1088 [] Clinical Lompoc / ELAP 1878 [] Other:		Fluoride (EPA 300.0) Chloride (EPA 300.0) pH (SM 4500H+B) Specific Conductance (SM 2510B) Sulfate (EPA 300.0) Ca, Mg, K, Na (EPA 200.7) Alkalinity (inc. HCO3, CO3, and OH) Ammonia-N (EPA 350.1) Nitrite-N (EPA 300.0) Nitrate-N (EPA 300.0) Total Dissolved Solids (SM 2540C)		
Client Contact:		Amer Jaker		Sample Type		Matrix		Comments
Phone No.:		951-769-8520 FAX No.: 951-769-8526		Unpreserved		SW		
System No.:		Max Benefits - Beaumont GMZ		Sample ID		Container ID		
Project:		Sampled By: <i>Chloe</i>		Date		Time		
Comments:		Email results to: <i>Ajaker@ci.beaumont.ca.us, ckhunter@dudek.com, sstuart@dudek.com</i>		Date		Time		
3/14/20	17:45	CC-01	1	SW	X	X	X	10
1	19:15	CC-03	3	SW	X	X	X	10
1	13:45	STC-01	51C	SW	X	X	X	10
	13:15	STC-02	52	SW	X	X	X	10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater Runoff S - Sludge O - Other	TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush
Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well	Received By (Sign) <i>[Signature]</i> Date / Time <i>3/14/20 15:00</i>
Relinquished By (Sign) <i>[Signature]</i> Print Name / Company <i>G.H. [Signature] / Dudek</i>	Received By (Sign) <i>[Signature]</i> Date / Time <i>3/14/20 9:45</i>
	Print Name / Company <i>Chris [Signature] / Dudek</i>

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C
 Shipped Via: [] Fed Ex [] Golden State Overnight [] UPS [] OnTrac [] USPS [] Other _____
 Condition: On Wet Ice [] On Blu Ice Intact [] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____
 Receipt Comments: _____ Clinical Lab Receipt Temp.: *4.5* °C

9/46

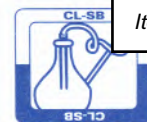
WO 2002246

Clinical Lab of San Bernardino, Inc. Chain of Custody
 21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client		Destination Laboratory		Analysis Requested		Turn Around Time (TAT)
City of Beaumont		[X] Clinical Grand Terrace / ELAP 1088		Fluoride (EPA 300.0)		
Address: 550 E. 6th St. Beaumont, CA. 92223		[] Clinical Lompoc / ELAP 1678		Chloride (EPA 300.0)		10
Client Contact: Amer Jaker		[] Other:		pH (SM 4500H+B)		10
Phone No.: 951-769-8520 FAX No.: 951-769-8526		No. of Preserved Cont		Specific Conductance (SM 2510B)		10
System No.:		Total Containers		Sulfate (EPA 300.0)		
Project: Max Benefits - Beaumont GMZ		ChlorAC		Ca, Mg, K, Na (EPA 200.7)		
Sampled By: C Hunter		ZnO4H6O4		Alkalinity (inc. HCO3, CO3, and OH)		
Comments: Email results to: Ajaker@cl.beaumont.ca.us, ckhunter@dudek.com, sstuart@dudek.com		Na2SO3		Ammonia-N (EPA 350.1)		
Date		NaOH		Nitrite-N (EPA 300.0)		
Time		HCl		Nitrate-N (EPA 300.0)		
Sample Identification		HNO3		Total Dissolved Solids (SM 2540C)		
4/28/20	13:30	CC-01	1	SW	X	2
	12:45	CC-03	3	SW	X	2
	12:00	STC-01	STC	SW	X	2
Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well						
Relinquished By (Sign)		Print Name / Company		Date / Time		Received By (Sign)
<i>[Signature]</i>		C. Hunter / Dudek		4/28/20 14:00		<i>[Signature]</i>
<i>[Signature]</i>		Sp. Styles / CLSB		4/29/2020-745		<i>[Signature]</i>
<i>[Signature]</i>				4/29/2020-835		<i>[Signature]</i>
(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C Shipped Via: [] Fed Ex [] Golden State Overnight [] UPS [] OnTrac [] USPS [] Other Condition: [] On Wet Ice [] On Blu Ice [] Intact [] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____ Receipt Comments: _____ Clinical Lab Receipt Temp.: _____ °C						

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of 550 East 6th Street Beaumont CA, 92223	Project: Maximum Benefit-Surface Water	Work Order: 20E1481
	Sub Project: Beaumont GMZ	Received: 05/20/20 08:50
	Project Manager: Thaxton Van Belle	Reported: 06/01/20

CC - 03 **20E1481-02 (Water)** **Sample Date:** 05/18/20 18:20 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	230	mg/L	5.0		05/28/20	05/28/20	2021064	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	05/26/20	05/26/20	2022015	
Bicarbonate (HCO3)	SM 2320 B	270	mg/L	5.0		05/28/20	05/28/20	2021064	
Carbonate (CO3)	SM 2320B	2.9	mg/L	5.0		05/28/20	05/28/20	2021064	J
Chloride (Cl)	EPA 300.0	86	mg/L	1.0	0.075	05/20/20	05/20/20	2021068	
Specific Conductance (E.C.)	SM 2510B	780	umhos/cm	2.0	0.20	05/20/20	05/20/20	2021064	
Fluoride (F)	EPA 300.0	0.34	mg/L	0.10	0.026	05/20/20	05/20/20	2021068	
Hardness, Total (as CaCO3)	Calculated	190	mg/L	6.6		05/28/20	05/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021064	
Inorganic Nitrogen	Calculated	2.7	mg/L	1.3		05/26/20	05/26/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	2.7	mg/L	0.40	0.12	05/20/20	05/20/20	2021068	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	05/20/20	05/20/20	2021068	
pH (Lab)	SM 4500HB	8.4	pH Units			05/20/20	05/20/20	2021064	
Sulfate (SO4)	EPA 300.0	31	mg/L	0.50	0.14	05/20/20	05/20/20	2021068	
Total Filterable Residue/TDS	SM 2540C	440	mg/L	5.0	3.1	05/21/20	05/22/20	2021110	

Metals

Calcium (Ca)	EPA 200.7	50	mg/L	1.0	0.080	05/28/20	05/28/20	2022095	
Magnesium (Mg)	EPA 200.7	16	mg/L	1.0	0.51	05/28/20	05/28/20	2022095	
Potassium (K)	EPA 200.7	18	mg/L	1.0	0.18	05/28/20	05/28/20	2022095	
Sodium (Na)	EPA 200.7	92	mg/L	1.0	0.21	05/28/20	05/28/20	2022095	

Stu Styles
Client Services Manager

2/0/6

WO 20E1481

Clinical Lab of San Bernardino, Inc. Chain of Custody
 21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client		Destination Laboratory		Analysis Requested		Turn Around Time (TAT):
City of Beaumont		[X] Clinical Grand Terrace / ELAP 1088		Fluoride (EPA 300.0)		10
Address: 550 E. 6th St.		[] Clinical Lompoc / ELAP 1678		Chloride (EPA 300.0)		10
Beaumont, CA. 92223		[] Other:		pH (SM 4500H+B)		10
Client Contact: Amer Jaker		No. of Preserved Cont		Specific Conductance (SM 2510B)		
Phone No.: 951-769-8520 FAX No.: 951-769-8526		ChlorAC		Sulfate (EPA 300.0)		
System No.:		ZnCl4H6O4		Ca, Mg, K, Na (EPA 200.7)		
Project: Max Benefits - Beaumont GMZ		NaOH		Alkalinity (inc. HCO3, CO3, and OH)		
Sampled By: <i>C. Hunter</i>		HCl		Ammonia-N (EPA 350.1)		
Comments: <i>C. Hunter</i>		HNO3		Nitrite-N (EPA 300.0)		
Email results to: Ajakher@cl.beaumont.ca.us,		C6H8O6		Nitrate-N (EPA 300.0)		
ckhunter@dudek.com, sstuart@dudek.com		NH4Cl		Total Dissolved Solids (SM 2540C)		
ckhunter@dudek.com, sstuart@dudek.com		Na2S2O3		Total Containers		
Date		Unpreserved		2		
Time		Sample Type		2		
Sample Identification		Matrix		2		
5/18/20	18:45	CC-01	SW	X	X	
	18:20	CC-03	SW	X	X	
	13:30	STC-01	SW	X	X	

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other
 Use for Bacteria Samples / Sample Type: 1-Routine 2-Repat 3-Replacement 4-Special D-Distribution W-Well

Relinquished By (Sign) *C. Hunter* Date / Time 5/18/20 18:15
 Received By (Sign) *Sp Shaker / Cass* Date / Time 5/20/20 8:20
 Print Name / Company Sp Shaker / Cass

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C
 Shipped Via: [] Fed Ex [] Golden State Overnight [] UPS [] OnTrac [] USPS [] Other
 Condition: [X] On Wet Ice [] On Blu Ice [] Intact [] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____
 Receipt Comments: Clinical Lab Receipt Temp.: 4.1 °C

0/06

WO 20 F0649

Clinical Lab of San Bernardino, Inc. Chain of Custody

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

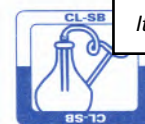
Client		City of Beaumont		Destination Laboratory		Analysis Requested												Turn Around Time (TAT):			
Address: 550 E. 6th St. Beaumont, CA. 92223		[X] Clinical Grand Terrace / ELAP 1088 [] Clinical Lompoc / ELAP 1678 [] Other:		Total Containers		Fluoride (EPA 300.0) Chloride (EPA 300.0) pH (SM 4500H+B) Specific Conductance (SM 2510B) Sulfate (EPA 300.0) Ca, Mg, K, Na (EPA 200.7) Alkalinity (inc. HCO3, CO3, and OH) Ammonia-N (EPA 350.1) Nitrite-N (EPA 300.0) Nitrate-N (EPA 300.0) Total Dissolved Solids (SM 2540C)												10 10 10			
Client Contact: Amer Jaker		Phone No.: 951-769-8520 FAX No.: 951-769-8526		No. of Preserved Cont		Total Containers															
System No.:		Project: Max Benefits - Beaumont GMZ		Sample Type		ChlorAC ZnO4H6O4 Na2SO3 NaOH HCl HNO3 C6H8O6 NH4Cl Na2S2O3 Unpreserved															
Sampled By: [Signature]		Comments: TV, Balls, C, Beaumont, g.v.		Matrix		SW SW SW															
Email results to: A.jaker@clb.com, ckhunter@dudek.com, sstuart@dudek.com		Container ID		Date		Sample Identification															
6/7/20 13:30		CC-01		1		SW		2													
6/8/20 13:30		CC-03		3		SW		2													
6/8/20 12:30		STC-01		STC		SW		2													

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other		TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush	
Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well		Print Name Company	
[Signature]		[Signature]	
6/7/20 14:00		6/8/200-735	
6/8/200-855		6/8/200-855	
C Hunter / Dudek		SK Shter / CUSB	
SK Shter / CUSB		SK Shter / CUSB	

(Lab Use Only) Lompoc Lab Receipt Temp: _____ °C
 Shipped Via: [] Fed Ex [] Golden State Overnight [] UPS [] On Trac [] USPS [] Other _____
 Condition: [] On Wet Ice [] On Blu Ice [] Intact [] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____
 Receipt Comments: _____ Clinical Lab Receipt Temp.: 46 °C

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20F1772
Received: 06/19/20 14:05
Reported: 06/30/20

STC - 01 20F1772-03 (Water) Sample Date: 06/18/20 16:00 Sampler: C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	270	mg/L	5.0		06/22/20	06/22/20	2025139	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	06/22/20	06/22/20	2026011	
Bicarbonate (HCO3)	SM 2320 B	310	mg/L	5.0		06/22/20	06/22/20	2025139	
Carbonate (CO3)	SM 2320B	8.2	mg/L	5.0		06/22/20	06/22/20	2025139	
Chloride (Cl)	EPA 300.0	84	mg/L	1.0	0.075	06/19/20	06/19/20	2025143	
Specific Conductance (E.C.)	SM 2510B	800	umhos/cm	2.0	0.20	06/19/20	06/19/20	2025139	
Fluoride (F)	EPA 300.0	0.48	mg/L	0.10	0.026	06/19/20	06/19/20	2025143	
Hardness, Total (as CaCO3)	Calculated	220	mg/L	6.6		06/25/20	06/25/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		06/22/20	06/22/20	2025139	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		06/22/20	06/22/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	0.93	mg/L	0.40	0.12	06/19/20	06/19/20	2025143	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	06/19/20	06/19/20	2025143	
pH (Lab)	SM 4500HB	8.6	pH Units			06/19/20	06/19/20	2025139	
Sulfate (SO4)	EPA 300.0	33	mg/L	0.50	0.14	06/19/20	06/19/20	2025143	
Total Filterable Residue/TDS	SM 2540C	480	mg/L	5.0	3.1	06/22/20	06/23/20	2026020	

Metals

Calcium (Ca)	EPA 200.7	59	mg/L	1.0	0.080	06/25/20	06/25/20	2026116	
Magnesium (Mg)	EPA 200.7	18	mg/L	1.0	0.51	06/25/20	06/25/20	2026116	
Potassium (K)	EPA 200.7	12	mg/L	1.0	0.18	06/25/20	06/25/20	2026116	
Sodium (Na)	EPA 200.7	83	mg/L	1.0	0.21	06/25/20	06/25/20	2026116	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

0/6/20 F1772
Chain of Custody

Clinical Laboratory of San Bernardino, Inc.

Client		City of Beaumont		Analysis Requested			
Address		715 West 4th Street Beaumont, CA 92223					
Contact		Thaxton Van Belle					
Phone #		(951) 769-8534					
Project		Max for St. Mary's					
Sub Project		WATER/PA					
Sampled by		C. Hunter					
Date (Comp Start)	Time (Comp Start)	Date (Comp End)	Time (Comp End)	Sample Identification	Matrix	Type	Preservatives
				Influent 24 Hr. Composite	WW	-1	-7
				Influent 24 Hr. Composite	WW	-1	5,7
				Influent Grab	WW	-1	4,7
6/18/20	14:30			CC-01	1	SW	X
	15:15			CC-03	3	SW	X
	16:00			STC-01	STC	SW	X

Matrix: DW-Drinking Water, WW-Waste Water, SW-Surface Water, GW-Ground Water Type- 1-Routine, 2-Repeat, 3-Replacement, 4-Special
 Preservatives: (1) Na2SO3 (2) HCl (3) IINO3 (4) NH4Cl (5) H2SO4 (6) Na2SO3 (7) Cold (8) Other.

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
<i>C. Hunter</i>	C. Hunter / Dursack	6/18/20 16:20	<i>Mrs. Martinez</i>	Mrs. Martinez
<i>Chris Martinez</i>	Chris Martinez	6-19-20 12:45	<i>[Signature]</i>	CSB
		14:05	<i>[Signature]</i>	
			<i>[Signature]</i>	

Samples received: (X) On ice (X) Intact () Custody seals Temp () F (X) C

ELAP # 1088

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20F2314
Received: 06/29/20 08:45
Reported: 07/09/20

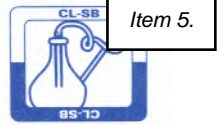
CC - 01 20F2314-01 (Water) Sample Date: 06/27/20 15:30 Sampler: C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO₃)	SM 2320 B	250	mg/L	5.0		07/01/20	07/01/20	2026151	
Ammonia as N (NH₃-N)	EPA 350.1	0.36	mg/L	0.50	0.15	07/06/20	07/06/20	2028003	J
Bicarbonate (HCO₃)	SM 2320 B	300	mg/L	5.0		07/01/20	07/01/20	2026151	
Carbonate (CO ₃)	SM 2320B	ND	mg/L	5.0		07/01/20	07/01/20	2026151	
Chloride (Cl)	EPA 300.0	80	mg/L	1.0	0.075	06/29/20	06/29/20	2027016	
Specific Conductance (E.C.)	SM 2510B	780	umhos/cm	2.0	0.20	06/29/20	06/29/20	2026151	
Fluoride (F)	EPA 300.0	0.26	mg/L	0.10	0.026	06/29/20	06/29/20	2027016	
Hardness, Total (as CaCO₃)	Calculated	180	mg/L	6.6		06/30/20	06/30/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		07/01/20	07/01/20	2026151	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		07/06/20	07/06/20	[CALC]	
Nitrate as N (NO₃-N)	EPA 300.0	0.65	mg/L	0.40	0.12	06/29/20	06/29/20	2027016	
Nitrite as N (NO ₂ -N)	EPA 300.0	ND	mg/L	0.40	0.17	06/29/20	06/29/20	2027016	
pH (Lab)	SM 4500HB	8.0	pH Units			06/29/20	06/29/20	2026151	
Sulfate (SO₄)	EPA 300.0	33	mg/L	0.50	0.14	06/29/20	06/29/20	2027016	
Total Filterable Residue/TDS	SM 2540C	450	mg/L	5.0	3.1	06/30/20	07/01/20	2027028	
Metals									
Calcium (Ca)	EPA 200.7	48	mg/L	1.0	0.080	06/30/20	06/30/20	2027041	
Magnesium (Mg)	EPA 200.7	15	mg/L	1.0	0.51	06/30/20	06/30/20	2027041	
Potassium (K)	EPA 200.7	16	mg/L	1.0	0.18	06/30/20	06/30/20	2027041	
Sodium (Na)	EPA 200.7	89	mg/L	1.0	0.21	06/30/20	06/30/20	2027041	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20F2314
Received: 06/29/20 08:45
Reported: 07/09/20

STC - 01 20F2314-03 (Water) Sample Date: 06/27/20 16:30 Sampler: C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO ₃)	SM 2320 B	270	mg/L	5.0		07/01/20	07/01/20	2026151	
Ammonia as N (NH ₃ -N)	EPA 350.1	ND	mg/L	0.50	0.15	07/06/20	07/06/20	2028003	
Bicarbonate (HCO ₃)	SM 2320 B	310	mg/L	5.0		07/01/20	07/01/20	2026151	
Carbonate (CO ₃)	SM 2320B	8.2	mg/L	5.0		07/01/20	07/01/20	2026151	
Chloride (Cl)	EPA 300.0	81	mg/L	1.0	0.075	06/29/20	06/29/20	2027016	
Specific Conductance (E.C.)	SM 2510B	800	umhos/cm	2.0	0.20	06/29/20	06/29/20	2026151	
Fluoride (F)	EPA 300.0	0.46	mg/L	0.10	0.026	06/29/20	06/29/20	2027016	
Hardness, Total (as CaCO ₃)	Calculated	220	mg/L	6.6		06/30/20	06/30/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		07/01/20	07/01/20	2026151	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		07/06/20	07/06/20	[CALC]	
Nitrate as N (NO ₃ -N)	EPA 300.0	0.50	mg/L	0.40	0.12	06/29/20	06/29/20	2027016	
Nitrite as N (NO ₂ -N)	EPA 300.0	ND	mg/L	0.40	0.17	06/29/20	06/29/20	2027016	
pH (Lab)	SM 4500HB	8.6	pH Units			06/29/20	06/29/20	2026151	
Sulfate (SO ₄)	EPA 300.0	33	mg/L	0.50	0.14	06/29/20	06/29/20	2027016	
Total Filterable Residue/TDS	SM 2540C	480	mg/L	5.0	3.1	06/30/20	07/01/20	2027028	

Metals									
Calcium (Ca)	EPA 200.7	58	mg/L	1.0	0.080	06/30/20	06/30/20	2027041	
Magnesium (Mg)	EPA 200.7	17	mg/L	1.0	0.51	06/30/20	06/30/20	2027041	
Potassium (K)	EPA 200.7	12	mg/L	1.0	0.18	06/30/20	06/30/20	2027041	
Sodium (Na)	EPA 200.7	84	mg/L	1.0	0.21	06/30/20	06/30/20	2027041	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)
pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.
ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

2013

20F2314

Clinical Lab of San Bernardino, Inc. Chain of Custody
 21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client Information		Destination Laboratory		Analysis Requested		Turn Around Time (TAT)	
Client Name: City of Beaumont	Address: 550 E. 4th St. Beaumont, CA 92223	City: Clinical Grand Terrace / ELAP 1081	State: Clinical Lompoc / ELAP 1078	Fluoride (EPA 300.0)		10	
Client Contact: Amer Jabir	Phone No.: 951-709-8520 FAX No.: 951-709-8526			Chloride (EPA 300.0)		10	
System No.:	Project: Mix Benefit - Beaumont GALT			pH (SM 4500-H-R)		10	
Sampled By: <i>[Signature]</i>	Comments: Email results to: Ajahir@cscl.beaumont.ca.us , chaunara@cscl.beaumont.ca.us			Specific Conductance (SM 2510-B)			
Sample ID:				Sulfate (EPA 300.0)			
Date: 6/24/13	Time: 15:30			Ca, Mg, K, Na (EPA 200.7)			
Time: 16:30	Time: CC-A1			Alkalinity (inc. HCO ₃ , CO ₃ , and OH)			
Time: 16:30	Time: CC-A3			Ammonia-N (EPA 350.1)			
Time: 16:30	Time: STC-A1			Nitrite-N (EPA 300.0)			
				Nitrate-N (EPA 300.0)			
				Total Dissolved Solids (SM 2540C)			
Matrix: DW - Drinking Water / GW - Ground Water / SW - Surface Water / W - Water / WW - Wastewater / SWR - Stormwater / Runoff / S - Sludge / O - Other							
Use for: Batched Samples / Sample Type: 1 Routine / 2 Special / 3 Enforcement & Special / 4 Distribution Method							
Requested by (Sign): <i>[Signature]</i>	Print Name / Company: Chaunara Dadek	Date / Time: 6/24/13 16:30	Received By (Sign): <i>[Signature]</i>	Print Name / Company: Steve Styles / CSB	TAT (90) Exp. Day (3) Rec. Day (2) Test Day (2)		

Page 1 of 1

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20G1667
Received: 07/19/20 09:35
Reported: 07/30/20

CC - 01 20G1667-01 (Water) Sample Date: 07/18/20 13:00 Sampler: C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	250	mg/L	5.0		07/23/20	07/23/20	2030035	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	07/23/20	07/23/20	2030090	
Bicarbonate (HCO3)	SM 2320 B	310	mg/L	5.0		07/23/20	07/23/20	2030035	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		07/23/20	07/23/20	2030035	
Chloride (Cl)	EPA 300.0	82	mg/L	1.0	0.075	07/19/20	07/19/20	2029161	
Specific Conductance (E.C.)	SM 2510B	810	umhos/cm	2.0	0.20	07/20/20	07/20/20	2030035	
Fluoride (F)	EPA 300.0	0.42	mg/L	0.10	0.026	07/19/20	07/19/20	2029161	
Hardness, Total (as CaCO3)	Calculated	180	mg/L	6.6		07/28/20	07/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		07/23/20	07/23/20	2030035	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		07/23/20	07/23/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	1.1	mg/L	0.40	0.12	07/19/20	07/19/20	2029161	
Nitrite as N (NO2-N)	EPA 300.0	0.17	mg/L	0.40	0.17	07/19/20	07/19/20	2029161	J
pH (Lab)	SM 4500HB	8.2	pH Units			07/20/20	07/20/20	2030035	
Sulfate (SO4)	EPA 300.0	28	mg/L	0.50	0.14	07/19/20	07/19/20	2029161	
Total Filterable Residue/TDS	SM 2540C	450	mg/L	5.0	3.1	07/20/20	07/22/20	2030022	

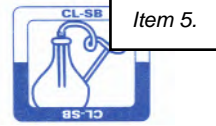
Metals

Calcium (Ca)	EPA 200.7	48	mg/L	1.0	0.080	07/28/20	07/28/20	2031048	
Magnesium (Mg)	EPA 200.7	15	mg/L	1.0	0.51	07/28/20	07/28/20	2031048	
Potassium (K)	EPA 200.7	19	mg/L	1.0	0.18	07/28/20	07/28/20	2031048	
Sodium (Na)	EPA 200.7	100	mg/L	1.0	0.21	07/28/20	07/28/20	2031048	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Beaumont, City of 550 East 6th Street Beaumont CA, 92223	Project: Maximum Benefit-Surface Water Sub Project: Beaumont GMZ Project Manager: Thaxton Van Belle	Work Order: 20G1667 Received: 07/19/20 09:35 Reported: 07/30/20
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CC - 03	20G1667-02 (Water)	Sample Date: 07/18/20 12:00	Sampler: C. Hunter						
Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier

General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	250	mg/L	5.0		07/23/20	07/23/20	2030035	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	07/23/20	07/23/20	2030090	
Bicarbonate (HCO3)	SM 2320 B	290	mg/L	5.0		07/23/20	07/23/20	2030035	
Carbonate (CO3)	SM 2320B	5.8	mg/L	5.0		07/23/20	07/23/20	2030035	
Chloride (Cl)	EPA 300.0	81	mg/L	1.0	0.075	07/19/20	07/19/20	2029161	
Specific Conductance (E.C.)	SM 2510B	800	umhos/cm	2.0	0.20	07/20/20	07/20/20	2030035	
Fluoride (F)	EPA 300.0	0.40	mg/L	0.10	0.026	07/19/20	07/19/20	2029161	
Hardness, Total (as CaCO3)	Calculated	180	mg/L	6.6		07/28/20	07/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		07/23/20	07/23/20	2030035	
Inorganic Nitrogen	Calculated	1.4	mg/L	1.3		07/23/20	07/23/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	1.4	mg/L	0.40	0.12	07/19/20	07/19/20	2029161	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	07/19/20	07/19/20	2029161	
pH (Lab)	SM 4500HB	8.4	pH Units			07/20/20	07/20/20	2030035	
Sulfate (SO4)	EPA 300.0	29	mg/L	0.50	0.14	07/19/20	07/19/20	2029161	
Total Filterable Residue/TDS	SM 2540C	440	mg/L	5.0	3.1	07/20/20	07/22/20	2030022	

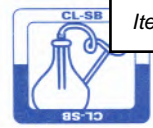
Metals

Calcium (Ca)	EPA 200.7	49	mg/L	1.0	0.080	07/28/20	07/28/20	2031048	
Magnesium (Mg)	EPA 200.7	15	mg/L	1.0	0.51	07/28/20	07/28/20	2031048	
Potassium (K)	EPA 200.7	18	mg/L	1.0	0.18	07/28/20	07/28/20	2031048	
Sodium (Na)	EPA 200.7	100	mg/L	1.0	0.21	07/28/20	07/28/20	2031048	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of 550 East 6th Street Beaumont CA, 92223	Project: Maximum Benefit-Surface Water Sub Project: Beaumont GMZ Project Manager: Thaxton Van Belle	Work Order: 20G1667 Received: 07/19/20 09:35 Reported: 07/30/20
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STC - 01	20G1667-03 (Water)	Sample Date: 07/18/20 11:00	Sampler: C. Hunter
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Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	260	mg/L	5.0		07/23/20	07/23/20	2030035	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	07/23/20	07/23/20	2030090	
Bicarbonate (HCO3)	SM 2320 B	300	mg/L	5.0		07/23/20	07/23/20	2030035	
Carbonate (CO3)	SM 2320B	9.6	mg/L	5.0		07/23/20	07/23/20	2030035	
Chloride (Cl)	EPA 300.0	81	mg/L	1.0	0.075	07/19/20	07/19/20	2029161	
Specific Conductance (E.C.)	SM 2510B	810	umhos/cm	2.0	0.20	07/20/20	07/20/20	2030035	
Fluoride (F)	EPA 300.0	0.49	mg/L	0.10	0.026	07/19/20	07/19/20	2029161	
Hardness, Total (as CaCO3)	Calculated	210	mg/L	6.6		07/28/20	07/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		07/23/20	07/23/20	2030035	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		07/23/20	07/23/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	0.95	mg/L	0.40	0.12	07/19/20	07/19/20	2029161	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	07/19/20	07/19/20	2029161	
pH (Lab)	SM 4500HB	8.5	pH Units			07/20/20	07/20/20	2030035	
Sulfate (SO4)	EPA 300.0	30	mg/L	0.50	0.14	07/19/20	07/19/20	2029161	
Total Filterable Residue/TDS	SM 2540C	450	mg/L	5.0	3.1	07/20/20	07/22/20	2030022	

Metals									
Calcium (Ca)	EPA 200.7	56	mg/L	1.0	0.080	07/28/20	07/28/20	2031048	
Magnesium (Mg)	EPA 200.7	18	mg/L	1.0	0.51	07/28/20	07/28/20	2031048	
Potassium (K)	EPA 200.7	15	mg/L	1.0	0.18	07/28/20	07/28/20	2031048	
Sodium (Na)	EPA 200.7	92	mg/L	1.0	0.21	07/28/20	07/28/20	2031048	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

Clinical Lab of San Bernardino, Inc.

Chain of Custody

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 717-7300

0-0-6

WO 20G1667

Client		City of Beaumont												
Address: 550 E. 6th St. Beaumont, CA, 92223		[X] Clinical Grand Terrace / ELAP 1088 [] Clinical Lompoc / ELAP 1678 [] Other:												
Client Contact: <u>Therese Van Bilt</u>		Total Containers												
Phone No.: (951) 769-8531 FAX No.:		ChlorAC												
System No.:		ZnC4H6O4												
Project: Max Benefits - Beaumont C.M.Z.		Na2SO3												
Sampled By: <u>C. Hunter</u>		NaOH												
Comments:		HCl												
Email results to: <u>ckhunter@dudek.com, sstuart@dudek.com</u>		HNO3												
		C6H8O6												
		NH4Cl												
		Na2S2O3												
		Unpreserved												
		Sample Type												
		Matrix												
		Container ID												
Date	Time	Sample Identification	Matrix	Container ID	No. of Preserved Cont.	Total Dissolved Solids (SM 2540C)	Ca. Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Comments	Turn Around Time (TAT)
7/18/20	13:00	CC-01	SW	1	2	X	X	X	X	X	X	X		10
	12:00	CC-03	SW	3	2	X	X	X	X	X	X	X		10
	11:00	STC-01	SW	5TC	2	X	X	X	X	X	X	X		10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other
 Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well
 TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Received By (Sign)	Date / Time	Print Name / Company
<u>[Signature]</u>	7/18/20 13:30	Chris Martinez
<u>[Signature]</u>	7/19/20 9:35	Chris Martinez / CSB

Work Order Logged By: _____
 Clinical Lab Receipt Temp.: 44 °C

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C
 Shipped Via: [] Fed Ex [] Golden State Overnight [] UPS [] OnTrac [] USPS [] Other
 Condition: [] On Wet Ice [] Inflat [] Custody Seals Samples / COC Checked By: _____
 Receipt Comments:

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20G2412
Received: 07/29/20 08:45
Reported: 08/06/20

STC - 01	20G2412-03 (Water)	Sample Date: 07/28/20 13:30	Sampler: C. Hunter						
Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier

General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	270	mg/L	5.0		07/30/20	07/30/20	2031040	
Ammonia as N (NH3-N)	EPA 350.1	0.38	mg/L	0.50	0.15	07/30/20	07/30/20	2031080	J
Bicarbonate (HCO3)	SM 2320 B	300	mg/L	5.0		07/30/20	07/30/20	2031040	
Carbonate (CO3)	SM 2320B	11	mg/L	5.0		07/30/20	07/30/20	2031040	
Chloride (Cl)	EPA 300.0	84	mg/L	1.0	0.075	07/29/20	07/29/20	2031072	
Specific Conductance (E.C.)	SM 2510B	820	umhos/cm	2.0	0.20	07/29/20	07/29/20	2031040	
Fluoride (F)	EPA 300.0	0.49	mg/L	0.10	0.026	07/29/20	07/29/20	2031072	
Hardness, Total (as CaCO3)	Calculated	230	mg/L	6.6		08/04/20	08/04/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		07/30/20	07/30/20	2031040	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		07/30/20	07/30/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	0.86	mg/L	0.40	0.12	07/29/20	07/29/20	2031072	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	07/29/20	07/29/20	2031072	
pH (Lab)	SM 4500HB	8.5	pH Units			07/29/20	07/29/20	2031040	
Sulfate (SO4)	EPA 300.0	35	mg/L	0.50	0.14	07/29/20	07/29/20	2031072	
Total Filterable Residue/TDS	SM 2540C	480	mg/L	5.0	3.1	07/29/20	08/04/20	2031075	

Metals

Calcium (Ca)	EPA 200.7	64	mg/L	1.0	0.080	08/04/20	08/04/20	2032049	
Magnesium (Mg)	EPA 200.7	18	mg/L	1.0	0.51	08/04/20	08/04/20	2032049	
Potassium (K)	EPA 200.7	14	mg/L	1.0	0.18	08/04/20	08/04/20	2032049	
Sodium (Na)	EPA 200.7	94	mg/L	1.0	0.21	08/04/20	08/04/20	2032049	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

0/0/6
WO 2062412

Clinical Lab of San Bernardino, Inc. Chain of Custody

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client		City of Beaumont		Destination Laboratory										Analysis Requested										Turn Around Time (TAT)	
Address:		550 E. 6th St. Beaumont, CA. 92223		<input checked="" type="checkbox"/> Clinical Grand Terrace / ELAP 1088 <input type="checkbox"/> Clinical Lompoc / ELAP 1678 <input type="checkbox"/> Other:										Fluoride (EPA 300.0) Chloride (EPA 300.0) pH (SM 4500H+B) Specific Conductance (SM 2510B) Sulfate (EPA 300.0) Ca, Mg, K, Na (EPA 200.7) Alkalinity (inc. HCO3, CO3, and OH) Ammonia-N (EPA 350.1) Nitrite-N (EPA 300.0) Nitrate-N (EPA 300.0) Total Dissolved Solids (SM 2540C)										10	
System No.:		Project:		No. of Preserved Cont.										Total Containers										Comments	
Phone No.:		Max Benefits - Beaumont GMZ		ChlorAC ZnC4H6O4 Na2SO3 NaOH HCl HNO3 C6H8O6 NH4Cl Na2S2O3 Unpreserved										2 2 2											
Sampled By:		Comments:		Sample Type										Matrix											
Email results to:		ekhunter@dudek.com, sstuart@dudek.com		SW SW SW										1 3 1											
Date	Time	Sample Identification		Container ID										Date / Time										Received By (Sign)	
7/28/20	15:30	CC-01		1										7/28/20 15:45										Sk Sykes / CSB	
	14:30	CC-03		3										7/29/20 7:45										Sk Sykes / CSB	
	13:30	STC-01		STC										7/28/20 8:45										Sk Sykes / CSB	
Matrix:		Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other		1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well										TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush											
Relinquished By (Sign)		Print Name / Company		Date / Time										Received By (Sign)										Print Name / Company	
[Signature]		C. Howard / Dudek		7/28/20 15:45										[Signature]										Sk Sykes / CSB	
[Signature]		Sk Sykes / CSB		7/28/20 8:45										[Signature]										Sk Sykes / CSB	

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C
 Shipped Via: Fed Ex Golden State Overnight UPS OnTrac USPS Other
 Condition: On Wet Ice Intact Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____
 Receipt Comments: Clinical Lab Receipt Temp.: 7.2 °C

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20H1257
Received: 08/17/20 08:55
Reported: 08/26/20

CC - 03 **20H1257-02 (Water)** **Sample Date:** 08/16/20 9:30 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	250	mg/L	5.0		08/18/20	08/18/20	2034026	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	08/20/20	08/20/20	2034080	
Bicarbonate (HCO3)	SM 2320 B	290	mg/L	5.0		08/18/20	08/18/20	2034026	
Carbonate (CO3)	SM 2320B	5.8	mg/L	5.0		08/18/20	08/18/20	2034026	
Chloride (Cl)	EPA 300.0	86	mg/L	1.0	0.075	08/17/20	08/17/20	2034018	
Specific Conductance (E.C.)	SM 2510B	820	umhos/cm	2.0	0.20	08/17/20	08/17/20	2034026	
Fluoride (F)	EPA 300.0	0.42	mg/L	0.10	0.026	08/17/20	08/17/20	2034018	
Hardness, Total (as CaCO3)	Calculated	190	mg/L	6.6		08/25/20	08/25/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		08/18/20	08/18/20	2034026	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		08/20/20	08/20/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	0.96	mg/L	0.40	0.12	08/17/20	08/17/20	2034018	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	08/17/20	08/17/20	2034018	
pH (Lab)	SM 4500HB	8.4	pH Units			08/17/20	08/17/20	2034026	
Sulfate (SO4)	EPA 300.0	34	mg/L	0.50	0.14	08/17/20	08/17/20	2034018	
Total Filterable Residue/TDS	SM 2540C	460	mg/L	5.0	3.1	08/18/20	08/19/20	2034036	

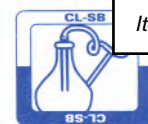
Metals

Calcium (Ca)	EPA 200.7	52	mg/L	1.0	0.080	08/25/20	08/25/20	2035035	
Magnesium (Mg)	EPA 200.7	15	mg/L	1.0	0.51	08/25/20	08/25/20	2035035	
Potassium (K)	EPA 200.7	18	mg/L	1.0	0.18	08/25/20	08/25/20	2035035	
Sodium (Na)	EPA 200.7	98	mg/L	5.0	1.1	08/25/20	08/25/20	2035035	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20H1257
Received: 08/17/20 08:55
Reported: 08/26/20

STC - 01 **20H1257-03 (Water)** **Sample Date:** 08/16/20 10:00 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO₃)	SM 2320 B	260	mg/L	5.0		08/18/20	08/18/20	2034026	
Ammonia as N (NH ₃ -N)	EPA 350.1	ND	mg/L	0.50	0.15	08/20/20	08/20/20	2034080	
Bicarbonate (HCO₃)	SM 2320 B	290	mg/L	5.0		08/18/20	08/18/20	2034026	
Carbonate (CO₃)	SM 2320B	12	mg/L	5.0		08/18/20	08/18/20	2034026	
Chloride (Cl)	EPA 300.0	85	mg/L	1.0	0.075	08/17/20	08/17/20	2034018	
Specific Conductance (E.C.)	SM 2510B	820	umhos/cm	2.0	0.20	08/17/20	08/17/20	2034026	
Fluoride (F)	EPA 300.0	0.50	mg/L	0.10	0.026	08/17/20	08/17/20	2034018	
Hardness, Total (as CaCO₃)	Calculated	230	mg/L	6.6		08/25/20	08/25/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		08/18/20	08/18/20	2034026	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		08/20/20	08/20/20	[CALC]	
Nitrate as N (NO₃-N)	EPA 300.0	0.56	mg/L	0.40	0.12	08/17/20	08/17/20	2034018	
Nitrite as N (NO ₂ -N)	EPA 300.0	ND	mg/L	0.40	0.17	08/17/20	08/17/20	2034018	
pH (Lab)	SM 4500HB	8.4	pH Units			08/17/20	08/17/20	2034026	
Sulfate (SO₄)	EPA 300.0	34	mg/L	0.50	0.14	08/17/20	08/17/20	2034018	
Total Filterable Residue/TDS	SM 2540C	460	mg/L	5.0	3.1	08/18/20	08/19/20	2034036	
Metals									
Calcium (Ca)	EPA 200.7	63	mg/L	1.0	0.080	08/25/20	08/25/20	2035035	
Magnesium (Mg)	EPA 200.7	19	mg/L	1.0	0.51	08/25/20	08/25/20	2035035	
Potassium (K)	EPA 200.7	16	mg/L	1.0	0.18	08/25/20	08/25/20	2035035	
Sodium (Na)	EPA 200.7	100	mg/L	1.0	0.21	08/25/20	08/25/20	2035035	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

Clinical Lab of San Bernardino, Inc.

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Chain of Custody

0/2/06 WO 20H1257

Client: City of Beaumont
Address: 550 E. 6th St.
 Beaumont, CA. 92223

Client Contact:
Phone No.: FAX No.:

System No.: Max Benefits - Beaumont GMZ

Sampled By:
Comments:

Email results to: Ajakher@ci.beaumont.ca.us,
 ckhunter@dudek.com, sstuart@dudek.com

Date: 8/16/20
Time: 9:00
Sample Identification: CC-01

Container ID: 1
Matrix: SW

Sample Type: SW
Matrix: SW

Container ID: 3
Matrix: SW

Container ID: STC
Matrix: SW

Total Containers:
 ChlorAC
 ZnC4H6O4
 Na2SO3
 NaOH
 HCl
 HNO3
 C6H8O6
 NH4Cl
 Na2S2O3
 Unpreserved

Analysis Requested:
 Total Dissolved Solids (SM 2540C)
 Nitrate-N (EPA 300.0)
 Nitrite-N (EPA 300.0)
 Ammonia-N (EPA 350.1)
 Alkalinity (inc. HCO3, CO3, and OH)
 Ca, Mg, K, Na (EPA 200.7)
 Sulfate (EPA 300.0)
 Specific Conductance (SM 2510B)
 pH (SM 4500H+B)
 Chloride (EPA 300.0)
 Fluoride (EPA 300.0)

Turn Around Time (TAT):
 10
 10
 10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other
 Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well TAT: (1) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign): [Signature]
Print Name / Company: Christina Hunter / Dudek
Date / Time: 8/16/20 10:30

Received By (Sign): [Signature]
Print Name / Company: St. Styles / CSS
Date / Time: 8/17/20 8:00

Received By (Sign): [Signature]
Print Name / Company: St. Styles / CSS
Date / Time: 8/17/20 8:55

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C
 Shipped Via: [] Fed Ex [] Golden State Overnight [] UPS [] OnTrac [] USPS [] Other
 Condition: [X] On Wet Ice [] On Blu Ice [] Intact [] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____
 Receipt Comments: _____ Clinical Lab Receipt Temp.: 25 °C

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of 550 East 6th Street Beaumont CA, 92223	Project: Maximum Benefit-Surface Water Sub Project: Beaumont GMZ Project Manager: Thaxton Van Belle	Work Order: 20H2305 Received: 08/30/20 09:50 Reported: 09/10/20
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STC - 01	20H2305-03 (Water)	Sample Date: 08/29/20 12:00	Sampler: C. Hunter
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Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	260	mg/L	5.0		09/02/20	09/02/20	2036008	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	09/04/20	09/04/20	2036125	
Bicarbonate (HCO3)	SM 2320 B	300	mg/L	5.0		09/02/20	09/02/20	2036008	
Carbonate (CO3)	SM 2320B	8.2	mg/L	5.0		09/02/20	09/02/20	2036008	
Chloride (Cl)	EPA 300.0	81	mg/L	1.0	0.075	08/30/20	08/30/20	2035126	
Specific Conductance (E.C.)	SM 2510B	810	umhos/cm	2.0	0.20	08/31/20	08/31/20	2036008	
Fluoride (F)	EPA 300.0	0.34	mg/L	0.10	0.026	08/30/20	08/30/20	2035126	
Hardness, Total (as CaCO3)	Calculated	220	mg/L	6.6		09/02/20	09/02/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		09/02/20	09/02/20	2036008	
Inorganic Nitrogen	Calculated	2.5	mg/L	1.3		09/04/20	09/04/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	2.5	mg/L	0.40	0.12	08/30/20	08/30/20	2035126	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	08/30/20	08/30/20	2035126	
pH (Lab)	SM 4500HB	8.5	pH Units			08/31/20	08/31/20	2036008	
Sulfate (SO4)	EPA 300.0	32	mg/L	0.50	0.14	08/30/20	08/30/20	2035126	
Total Filterable Residue/TDS	SM 2540C	460	mg/L	5.0	3.1	09/02/20	09/03/20	2036054	

Metals									
Calcium (Ca)	EPA 200.7	59	mg/L	1.0	0.080	09/02/20	09/02/20	2036061	
Magnesium (Mg)	EPA 200.7	18	mg/L	1.0	0.51	09/02/20	09/02/20	2036061	
Potassium (K)	EPA 200.7	15	mg/L	1.0	0.18	09/02/20	09/02/20	2036061	
Sodium (Na)	EPA 200.7	95	mg/L	1.0	0.21	09/02/20	09/02/20	2036061	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)
 pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.
 ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

Clinical Lab of San Bernardino, Inc.

Chain of Custody

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

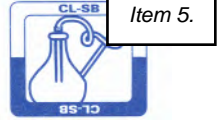
WO 20H2305

City of Beaumont			Destination Laboratory											
Address: 550 E. 6th St. Beaumont, CA. 92223			[X] Clinical Grand Terrace / ELAP 1088 [] Clinical Lompoc / ELAP 1678 [] Other:											
Client Contact:			FAX No.:											
System No.:			No. of Preserved Cont.											
Project: Max Benefits - Beaumont GMZ			Total Containers											
Sampled By: <i>C. Hunter</i>			ChlorAC											
Comments: Email results to: Ajakher@ci.beaumont.ca.us, ckhunter@dudek.com, sstuart@dudek.com			ZnC4H6O4											
Date	Time	Sample Identification	Container ID	Matrix	Sample Type	Unpreserved	NaOH	HCl	HNO3	C6H8O6	NH4Cl	Na2S2O3		
8/29/20	13:00	CC-01	1	SW	X									
	12:30	CC-03	3	SW	X									
	12:00	STC-01	STC	SW	X									
Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other														
Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well														
Requisitioned By (Sign)			Print Name / Company			Date / Time			Received By (Sign)			Print Name / Company		
<i>[Signature]</i>			S. Hunter / Dudek			8/29/20 13:30			<i>[Signature]</i>			Carm D. / LUST		
(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C														
Shipped Via: [] Fed Ex [] Golden State Overnight [] UPS [] OnTrac [] USPS [] Other														
Condition: [X] On Wet Ice [] On Blu Ice [X] Intact [] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____														
Receipt Comments: _____ Clinical Lab Receipt Temp.: 50 °C														

Analysis Requested	Turn Around Time (TAT)		
	Five Day Rush	Ten Day	Two Day Rush
Fluoride (EPA 300.0)	X		10
Chloride (EPA 300.0)	X		10
pH (SM 4500H+B)	X		10
Specific Conductance (SM 2510B)	X		10
Sulfate (EPA 300.0)	X		10
Ca, Mg, K, Na (EPA 200.7)	X		
Alkalinity (inc. HCO3, CO3, and OH)	X		
Ammonia-N (EPA 350.1)	X		
Nitrite-N (EPA 300.0)	X		
Nitrate-N (EPA 300.0)	X		
Total Dissolved Solids (SM 2540C)	X		

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Beaumont, City of 550 East 6th Street Beaumont CA, 92223	Project: Maximum Benefit-Surface Water Sub Project: Beaumont GMZ Project Manager: Thaxton Van Belle	Work Order: 2011125 Received: 09/13/20 09:30 Reported: 09/23/20
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CC - 01	2011125-01 (Water)	Sample Date: 09/12/20 13:00	Sampler: C. Hunter						
Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier

General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	250	mg/L	5.0		09/18/20	09/18/20	2037111	
Ammonia as N (NH3-N)	EPA 350.1	2.4	mg/L	0.50	0.15	09/16/20	09/18/20	2038075	
Bicarbonate (HCO3)	SM 2320 B	310	mg/L	5.0		09/18/20	09/18/20	2037111	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		09/18/20	09/18/20	2037111	
Chloride (Cl)	EPA 300.0	94	mg/L	1.0	0.075	09/13/20	09/13/20	2037108	
Specific Conductance (E.C.)	SM 2510B	870	umhos/cm	2.0	0.20	09/14/20	09/14/20	2037111	
Fluoride (F)	EPA 300.0	0.27	mg/L	0.10	0.026	09/13/20	09/13/20	2037108	
Hardness, Total (as CaCO3)	Calculated	190	mg/L	6.6		09/16/20	09/16/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		09/18/20	09/18/20	2037111	
Inorganic Nitrogen	Calculated	7.3	mg/L	1.3		09/16/20	09/18/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	4.9	mg/L	0.40	0.12	09/13/20	09/13/20	2037108	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	09/13/20	09/13/20	2037108	
pH (Lab)	SM 4500HB	8.1	pH Units			09/14/20	09/14/20	2037111	
Sulfate (SO4)	EPA 300.0	30	mg/L	0.50	0.14	09/13/20	09/13/20	2037108	
Total Filterable Residue/TDS	SM 2540C	480	mg/L	5.0	3.1	09/15/20	09/17/20	2038028	

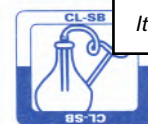
Metals

Calcium (Ca)	EPA 200.7	49	mg/L	1.0	0.080	09/16/20	09/16/20	2038073	
Magnesium (Mg)	EPA 200.7	16	mg/L	1.0	0.51	09/16/20	09/16/20	2038073	
Potassium (K)	EPA 200.7	18	mg/L	1.0	0.18	09/16/20	09/16/20	2038073	
Sodium (Na)	EPA 200.7	100	mg/L	5.0	1.1	09/16/20	09/16/20	2038073	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 2011125
Received: 09/13/20 09:30
Reported: 09/23/20

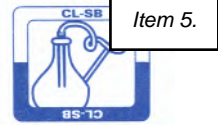
CC - 03 2011125-02 (Water) Sample Date: 09/12/20 12:15 Sampler: C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO ₃)	SM 2320 B	260	mg/L	5.0		09/18/20	09/18/20	2037111	
Ammonia as N (NH ₃ -N)	EPA 350.1	ND	mg/L	0.50	0.15	09/16/20	09/18/20	2038075	
Bicarbonate (HCO ₃)	SM 2320 B	300	mg/L	5.0		09/18/20	09/18/20	2037111	
Carbonate (CO ₃)	SM 2320B	7.7	mg/L	5.0		09/18/20	09/18/20	2037111	
Chloride (Cl)	EPA 300.0	94	mg/L	1.0	0.075	09/13/20	09/13/20	2037108	
Specific Conductance (E.C.)	SM 2510B	850	umhos/cm	2.0	0.20	09/14/20	09/14/20	2037111	
Fluoride (F)	EPA 300.0	0.28	mg/L	0.10	0.026	09/13/20	09/13/20	2037108	
Hardness, Total (as CaCO ₃)	Calculated	190	mg/L	6.6		09/16/20	09/16/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		09/18/20	09/18/20	2037111	
Inorganic Nitrogen	Calculated	1.6	mg/L	1.3		09/16/20	09/18/20	[CALC]	
Nitrate as N (NO ₃ -N)	EPA 300.0	1.6	mg/L	0.40	0.12	09/13/20	09/13/20	2037108	
Nitrite as N (NO ₂ -N)	EPA 300.0	ND	mg/L	0.40	0.17	09/13/20	09/13/20	2037108	
pH (Lab)	SM 4500HB	8.4	pH Units			09/14/20	09/14/20	2037111	
Sulfate (SO ₄)	EPA 300.0	30	mg/L	0.50	0.14	09/13/20	09/13/20	2037108	
Total Filterable Residue/TDS	SM 2540C	470	mg/L	5.0	3.1	09/15/20	09/17/20	2038028	
Metals									
Calcium (Ca)	EPA 200.7	49	mg/L	1.0	0.080	09/16/20	09/16/20	2038073	
Magnesium (Mg)	EPA 200.7	16	mg/L	1.0	0.51	09/16/20	09/16/20	2038073	
Potassium (K)	EPA 200.7	19	mg/L	1.0	0.18	09/16/20	09/16/20	2038073	
Sodium (Na)	EPA 200.7	100	mg/L	5.0	1.1	09/16/20	09/16/20	2038073	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 2011125
Received: 09/13/20 09:30
Reported: 09/23/20

STC - 01	2011125-03 (Water)	Sample Date: 09/12/20 11:30	Sampler: C. Hunter						
Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier

General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	270	mg/L	5.0		09/18/20	09/18/20	2037111	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	09/16/20	09/18/20	2038075	
Bicarbonate (HCO3)	SM 2320 B	310	mg/L	5.0		09/18/20	09/18/20	2037111	
Carbonate (CO3)	SM 2320B	7.2	mg/L	5.0		09/18/20	09/18/20	2037111	
Chloride (Cl)	EPA 300.0	90	mg/L	1.0	0.075	09/13/20	09/13/20	2037108	
Specific Conductance (E.C.)	SM 2510B	840	umhos/cm	2.0	0.20	09/14/20	09/14/20	2037111	
Fluoride (F)	EPA 300.0	0.45	mg/L	0.10	0.026	09/13/20	09/13/20	2037108	
Hardness, Total (as CaCO3)	Calculated	220	mg/L	6.6		09/16/20	09/16/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		09/18/20	09/18/20	2037111	
Inorganic Nitrogen	Calculated	1.5	mg/L	1.3		09/16/20	09/18/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	1.5	mg/L	0.40	0.12	09/13/20	09/13/20	2037108	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	09/13/20	09/13/20	2037108	
pH (Lab)	SM 4500HB	8.4	pH Units			09/14/20	09/14/20	2037111	
Sulfate (SO4)	EPA 300.0	31	mg/L	0.50	0.14	09/13/20	09/13/20	2037108	
Total Filterable Residue/TDS	SM 2540C	470	mg/L	5.0	3.1	09/15/20	09/17/20	2038028	

Metals

Calcium (Ca)	EPA 200.7	59	mg/L	1.0	0.080	09/16/20	09/16/20	2038073	
Magnesium (Mg)	EPA 200.7	18	mg/L	1.0	0.51	09/16/20	09/16/20	2038073	
Potassium (K)	EPA 200.7	13	mg/L	1.0	0.18	09/16/20	09/16/20	2038073	
Sodium (Na)	EPA 200.7	98	mg/L	1.0	0.21	09/16/20	09/16/20	2038073	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)
pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.
ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

Clinical Lab of San Bernardino, Inc.

Chain of Custody

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

c/e/b
WO 201125

Client		City of Beaumont		Destination Laboratory		Analysis Requested		Turn Around Time (TAT)	
Address:	550 E. 6th St.	[X] Clinical Grand Terrace / ELAP 1088		[] Clinical Lompoc / ELAP 1678		Fluoride (EPA 300.0)		10	
Client Contact:	Beaumont, CA. 92223	[] Other:				Chloride (EPA 300.0)		10	
Phone No.:	FAX No.:	Total Containers		No. of Preserved Cont.		pH (SM 4500H+B)		10	
System No.:	Project: Max Benefits - Beaumont GMZ	ChlorAC				Specific Conductance (SM 2510B)			
Sampled By:	Sampled By:	ZnC4H6O4				Sulfate (EPA 300.0)			
Comments:	Comments:	Na2SO3				Ca, Mg, K, Na (EPA 200.7)			
Email results to: Ajakher@ci.beaumont.ca.us,	Matrix: SW	NaOH				Alkalinity (inc. HCO3, CO3, and OH)			
ckhunter@dudek.com, sstuart@dudek.com	Matrix: SW	HCl				Ammonia-N (EPA 350.1)			
Date	Time	HNO3				Nitrite-N (EPA 300.0)			
1/12/20	13:00	C6H8O6				Nitrate-N (EPA 300.0)			
	12:15	NH4Cl				Total Dissolved Solids (SM 2540C)			
	11:50	Na2S2O3							
		Unpreserved							
		Sample Type							
		Container ID							
		CC-01							
		CC-03							
		STC-01							
Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other									
Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush									
Relinquished By (Sign)		Print Name / Company		Date / Time		Received By (Sign)		Print Name / Company	
<i>Chris Martinez</i>		Chris Martinez		9-13-20 9:30		<i>Chris Martinez</i>		Chris Martinez	
<i>Chris Martinez</i>		Chris Martinez		9-13-20 13:00		<i>Chris Martinez</i>		Chris Martinez	
(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C									
Shipped Via: [] Fed Ex [] Golden State Overnight [] UPS [] OnTrac [] USPS [] Other									
Condition: [] On Wet Ice [] On Blu Ice [] Intact [] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____									
Receipt Comments: _____ Clinical Lab Receipt Temp.: _____ °C									

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 2012051
Received: 09/23/20 14:32
Reported: 10/05/20

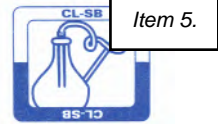
CC - 01 **2012051-01 (Water)** **Sample Date:** 09/22/20 17:30 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
<u>General Chemical Analyses</u>									
Alkalinity, Total (as CaCO ₃)	SM 2320 B	230	mg/L	5.0		09/30/20	09/30/20	2039057	
Ammonia as N (NH ₃ -N)	EPA 350.1	ND	mg/L	0.50	0.15	09/29/20	10/01/20	2040053	
Bicarbonate (HCO ₃)	SM 2320 B	280	mg/L	5.0		09/30/20	09/30/20	2039057	
Carbonate (CO ₃)	SM 2320B	ND	mg/L	5.0		09/30/20	09/30/20	2039057	
Chloride (Cl)	EPA 300.0	97	mg/L	1.0	0.075	09/23/20	09/23/20	2039063	
Specific Conductance (E.C.)	SM 2510B	800	umhos/cm	2.0	0.20	09/24/20	09/24/20	2039057	
Fluoride (F)	EPA 300.0	0.36	mg/L	0.10	0.026	09/23/20	09/23/20	2039063	
Hardness, Total (as CaCO ₃)	Calculated	180	mg/L	6.6		09/28/20	09/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		09/30/20	09/30/20	2039057	
Inorganic Nitrogen	Calculated	3.2	mg/L	1.3		09/29/20	10/01/20	[CALC]	
Nitrate as N (NO ₃ -N)	EPA 300.0	3.2	mg/L	0.40	0.12	09/23/20	09/23/20	2039063	
Nitrite as N (NO ₂ -N)	EPA 300.0	ND	mg/L	0.40	0.17	09/23/20	09/23/20	2039063	
pH (Lab)	SM 4500HB	8.1	pH Units			09/24/20	09/24/20	2039057	
Sulfate (SO ₄)	EPA 300.0	35	mg/L	0.50	0.14	09/23/20	09/23/20	2039063	
Total Filterable Residue/TDS	SM 2540C	480	mg/L	5.0	3.1	09/25/20	09/28/20	2039100	
<u>Metals</u>									
Calcium (Ca)	EPA 200.7	47	mg/L	1.0	0.080	09/28/20	09/28/20	2040011	
Magnesium (Mg)	EPA 200.7	16	mg/L	1.0	0.51	09/28/20	09/28/20	2040011	
Potassium (K)	EPA 200.7	17	mg/L	1.0	0.18	09/28/20	09/28/20	2040011	
Sodium (Na)	EPA 200.7	97	mg/L	1.0	0.21	09/28/20	09/28/20	2040011	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 2012051
Received: 09/23/20 14:32
Reported: 10/05/20

STC - 01	2012051-03 (Water)	Sample Date: 09/22/20 16:00	Sampler: C. Hunter						
Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier

General Chemical Analyses

Alkalinity, Total (as CaCO ₃)	SM 2320 B	250	mg/L	5.0		09/30/20	09/30/20	2039057	
Ammonia as N (NH ₃ -N)	EPA 350.1	ND	mg/L	0.50	0.15	09/29/20	10/01/20	2040053	
Bicarbonate (HCO ₃)	SM 2320 B	280	mg/L	5.0		09/30/20	09/30/20	2039057	
Carbonate (CO ₃)	SM 2320B	9.6	mg/L	5.0		09/30/20	09/30/20	2039057	
Chloride (Cl)	EPA 300.0	89	mg/L	1.0	0.075	09/24/20	09/24/20	2039063	
Specific Conductance (E.C.)	SM 2510B	790	umhos/cm	2.0	0.20	09/24/20	09/24/20	2039057	
Fluoride (F)	EPA 300.0	0.31	mg/L	0.10	0.026	09/24/20	09/24/20	2039063	
Hardness, Total (as CaCO ₃)	Calculated	230	mg/L	6.6		09/28/20	09/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		09/30/20	09/30/20	2039057	
Inorganic Nitrogen	Calculated	2.0	mg/L	1.3		09/29/20	10/01/20	[CALC]	
Nitrate as N (NO ₃ -N)	EPA 300.0	2.0	mg/L	0.40	0.12	09/24/20	09/24/20	2039063	
Nitrite as N (NO ₂ -N)	EPA 300.0	ND	mg/L	0.40	0.17	09/24/20	09/24/20	2039063	
pH (Lab)	SM 4500HB	8.4	pH Units			09/24/20	09/24/20	2039057	
Sulfate (SO ₄)	EPA 300.0	39	mg/L	0.50	0.14	09/24/20	09/24/20	2039063	
Total Filterable Residue/TDS	SM 2540C	460	mg/L	5.0	3.1	09/28/20	10/01/20	2040019	

Metals

Calcium (Ca)	EPA 200.7	59	mg/L	1.0	0.080	09/28/20	09/28/20	2040011	
Magnesium (Mg)	EPA 200.7	19	mg/L	1.0	0.51	09/28/20	09/28/20	2040011	
Potassium (K)	EPA 200.7	16	mg/L	1.0	0.18	09/28/20	09/28/20	2040011	
Sodium (Na)	EPA 200.7	100	mg/L	1.0	0.21	09/28/20	09/28/20	2040011	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)
pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.
ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

Clinical Lab of San Bernardino, Inc. 0-0-Chain of Custody

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

WO 20I2051

Client		Destination Laboratory										Analysis Requested										Turn Around Time (TAT)
City of Beaumont		[X] Clinical Grand Terrace / ELAP 1088 [] Clinical Lompoc / ELAP 1678 [] Other:										Fluoride (EPA 300.0) Chloride (EPA 300.0) pH (SM 4500H+B) Specific Conductance (SM 2510B) Sulfate (EPA 300.0) Ca, Mg, K, Na (EPA 200.7) Alkalinity (inc. HCO3, CO3, and OH) Ammonia-N (EPA 350.1) Nitrite-N (EPA 300.0) Nitrate-N (EPA 300.0) Total Dissolved Solids (SM 2540C)										
Address: 550 E. 6th St. Beaumont, CA. 92223		No. of Preserved Cont.																				
Client Contact:		Total Containers																				
Phone No.:		ChlorAC																				
System No.:		ZnC4H6O4																				
Project: Max Benefits - Beaumont GMIZ		Na2SO3																				
Sampled By: C. Hunter		NaOH																				
Comments: Email results to: Ajakher@ci.beaumont.ca.us, ckhunter@dudek.com, sstuart@dudek.com		HCl																				
Date		HNO3																				
Time		C6H8O6																				
Sample Identification		NH4Cl																				
		Na2S2O3																				
		Unpreserved																				
		Sample Type																				
		Matrix																				
		Container ID																				
		SW																				
		SW																				
		SW																				

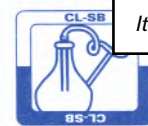
Relinquished By (Sign)	Date / Time	Received By (Sign)	Print Name / Company
<i>C. Hunter</i>	9/23/20 14:00	<i>J. Akher</i>	J.A. Akher
<i>C. Hunter / Dudek</i>	09-23-20 14:32	<i>J. Akher</i>	J.A. Akher

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other
 Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C
 Shipped Via: [] Fed Ex [] Golden State Overnight [] UPS [] OnTrac [] USPS [] Other
 Condition: ~~[]~~ On Wet Ice [] On Blu Ice [] On Dry Ice [] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____
 Receipt Comments: _____ Clinical Lab Receipt Temp.: 09 °C

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20J0887
Received: 10/12/20 09:05
Reported: 10/22/20

CC - 03 **20J0887-02 (Water)** **Sample Date: 10/10/20 17:15** **Sampler: C. Hunter**

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	230	mg/L	5.0		10/14/20	10/14/20	2041148	
Ammonia as N (NH3-N)	EPA 350.1	0.41	mg/L	0.50	0.15	10/19/20	10/19/20	2042079	J
Bicarbonate (HCO3)	SM 2320 B	280	mg/L	5.0		10/14/20	10/14/20	2041148	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		10/14/20	10/14/20	2041148	
Chloride (Cl)	EPA 300.0	95	mg/L	1.0	0.075	10/12/20	10/12/20	2042020	
Specific Conductance (E.C.)	SM 2510B	850	umhos/cm	2.0	0.20	10/12/20	10/12/20	2041148	
Fluoride (F)	EPA 300.0	0.41	mg/L	0.10	0.026	10/12/20	10/12/20	2042020	
Hardness, Total (as CaCO3)	Calculated	200	mg/L	6.6		10/20/20	10/20/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		10/14/20	10/14/20	2041148	
Inorganic Nitrogen	Calculated	7.6	mg/L	1.3		10/19/20	10/19/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	7.2	mg/L	0.40	0.12	10/12/20	10/12/20	2042020	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	10/12/20	10/12/20	2042020	
pH (Lab)	SM 4500HB	8.3	pH Units			10/12/20	10/12/20	2041148	
Sulfate (SO4)	EPA 300.0	36	mg/L	0.50	0.14	10/12/20	10/12/20	2042020	
Total Filterable Residue/TDS	SM 2540C	480	mg/L	5.0	3.1	10/12/20	10/15/20	2042025	

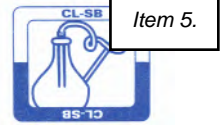
Metals

Calcium (Ca)	EPA 200.7	52	mg/L	1.0	0.080	10/20/20	10/20/20	2043046	
Magnesium (Mg)	EPA 200.7	18	mg/L	1.0	0.51	10/20/20	10/20/20	2043046	
Potassium (K)	EPA 200.7	22	mg/L	1.0	0.18	10/20/20	10/20/20	2043046	
Sodium (Na)	EPA 200.7	100	mg/L	1.0	0.21	10/20/20	10/20/20	2043046	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Beaumont, City of 550 East 6th Street Beaumont CA, 92223	Project: Maximum Benefit-Surface Water Sub Project: Beaumont GMZ Project Manager: Thaxton Van Belle	Work Order: 20J0887 Received: 10/12/20 09:05 Reported: 10/22/20
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STC - 01	20J0887-03 (Water)	Sample Date: 10/10/20 16:30	Sampler: C. Hunter
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Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	260	mg/L	5.0		10/14/20	10/14/20	2041148	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	10/19/20	10/19/20	2042079	
Bicarbonate (HCO3)	SM 2320 B	310	mg/L	5.0		10/14/20	10/14/20	2041148	
Carbonate (CO3)	SM 2320B	6.7	mg/L	5.0		10/14/20	10/14/20	2041148	
Chloride (Cl)	EPA 300.0	81	mg/L	1.0	0.075	10/12/20	10/12/20	2042020	
Specific Conductance (E.C.)	SM 2510B	790	umhos/cm	2.0	0.20	10/12/20	10/12/20	2041148	
Fluoride (F)	EPA 300.0	0.44	mg/L	0.10	0.026	10/12/20	10/12/20	2042020	
Hardness, Total (as CaCO3)	Calculated	220	mg/L	6.6		10/20/20	10/20/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		10/14/20	10/14/20	2041148	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		10/19/20	10/19/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	0.67	mg/L	0.40	0.12	10/12/20	10/12/20	2042020	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	10/12/20	10/12/20	2042020	
pH (Lab)	SM 4500HB	8.4	pH Units			10/12/20	10/12/20	2041148	
Sulfate (SO4)	EPA 300.0	34	mg/L	0.50	0.14	10/12/20	10/12/20	2042020	
Total Filterable Residue/TDS	SM 2540C	460	mg/L	5.0	3.1	10/12/20	10/15/20	2042025	

Metals									
Calcium (Ca)	EPA 200.7	59	mg/L	1.0	0.080	10/20/20	10/20/20	2043046	
Magnesium (Mg)	EPA 200.7	18	mg/L	1.0	0.51	10/20/20	10/20/20	2043046	
Potassium (K)	EPA 200.7	16	mg/L	1.0	0.18	10/20/20	10/20/20	2043046	
Sodium (Na)	EPA 200.7	97	mg/L	1.0	0.21	10/20/20	10/20/20	2043046	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)
 pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.
 ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
 Client Services Manager

Clinical Lab of San Bernardino, Inc.

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Chain of Custody

City of Beaumont
 Clinical Grand Terrace / ELAP 1088
 Clinical Lompoc / ELAP 1678
 Other:

Destination Laboratory
 No. of Preserved Cont. _____
 Matrix _____
 Sample Type _____
 Unpreserved _____
 Na2S2O3 _____
 NH4Cl _____
 C6H8O6 _____
 HNO3 _____
 HCl _____
 NaOH _____
 Na2SO3 _____
 ZnC4H6O4 _____
 ChlorAC _____
 Total Containers _____

Client
 City of Beaumont
 550 E. 6th St.
 Beaumont, CA. 92223
 Client Contact:
 Phone No.: FAX No.:
 System No.: Max Benefits - Beaumont GMZ
 Project:
 Sampled By: CHuster
 Comments:
 Email results to: Ajakher@ci.beaumont.ca.us,
 ckhunter@dudek.com, sstuart@dudek.com

Sample Identification		Date	Time	Container ID	Matrix	Analysis Requested											Comments	Turn Around Time (TAT)
						Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO3, CO3, and OH)	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)		
10/10/20	18:00	CC-01		1	SW	X	X	X	X	X	X	X	X	X	X	X	10	
	17:15	CC-03		3	SW	X	X	X	X	X	X	X	X	X	X	X	10	
	16:30	STC-01		STC	SW	X	X	X	X	X	X	X	X	X	X	X	10	

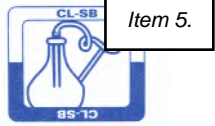
Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other
Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well
TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush
Relinquished By (Sign): [Signature] **Date / Time:** 10/10/20 17:00
Print Name / Company: C. Hunter / Dudek
Received By (Sign): [Signature] **Date / Time:** 10/12/2020 8:20
Print Name / Company: Sh Styles / CSB
Received By (Sign): [Signature] **Date / Time:** 10/12/2020 9:05
Print Name / Company: Sh Styles / CSB

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C
 Shipped Via: Fed Ex Golden State Overnight JUSPS OnTrac JUSPS Other
 Condition: On Wet Ice On Blu Ice Intact Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____
 Receipt Comments: Clinical Lab Receipt Temp.: 2.3 °C

0/0/6
 WO 20J 0887

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20K0276
Received: 11/04/20 09:05
Reported: 11/16/20

CC - 01 **20K0276-01 (Water)** **Sample Date:** 11/03/20 13:30 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	140	mg/L	5.0		11/10/20	11/10/20	2045079	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/12/20	11/12/20	2046088	
Bicarbonate (HCO3)	SM 2320 B	170	mg/L	5.0		11/10/20	11/10/20	2045079	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		11/10/20	11/10/20	2045079	
Chloride (Cl)	EPA 300.0	55	mg/L	1.0	0.075	11/04/20	11/04/20	2045090	
Specific Conductance (E.C.)	SM 2510B	510	umhos/cm	2.0	0.20	11/04/20	11/04/20	2045079	
Fluoride (F)	EPA 300.0	0.26	mg/L	0.10	0.026	11/04/20	11/04/20	2045090	
Hardness, Total (as CaCO3)	Calculated	110	mg/L	6.6		11/12/20	11/12/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		11/10/20	11/10/20	2045079	
Inorganic Nitrogen	Calculated	3.6	mg/L	1.3		11/12/20	11/12/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	3.6	mg/L	0.40	0.12	11/04/20	11/04/20	2045090	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/04/20	11/04/20	2045090	
pH (Lab)	SM 4500HB	8.0	pH Units			11/04/20	11/04/20	2045079	
Sulfate (SO4)	EPA 300.0	19	mg/L	0.50	0.14	11/04/20	11/04/20	2045090	
Total Filterable Residue/TDS	SM 2540C	280	mg/L	5.0	3.1	11/05/20	11/09/20	2045122	

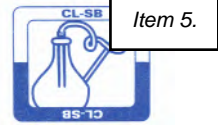
Metals

Calcium (Ca)	EPA 200.7	28	mg/L	1.0	0.080	11/12/20	11/12/20	2046120	
Magnesium (Mg)	EPA 200.7	9.7	mg/L	1.0	0.51	11/12/20	11/12/20	2046120	
Potassium (K)	EPA 200.7	11	mg/L	1.0	0.18	11/12/20	11/12/20	2046120	
Sodium (Na)	EPA 200.7	64	mg/L	1.0	0.21	11/12/20	11/12/20	2046120	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20K0276
Received: 11/04/20 09:05
Reported: 11/16/20

STC - 01	20K0276-03 (Water)	Sample Date: 11/03/20 12:00	Sampler: C. Hunter						
Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier

General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	260	mg/L	5.0		11/10/20	11/10/20	2045079	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/12/20	11/12/20	2046088	
Bicarbonate (HCO3)	SM 2320 B	320	mg/L	5.0		11/10/20	11/10/20	2045079	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		11/10/20	11/10/20	2045079	
Chloride (Cl)	EPA 300.0	86	mg/L	1.0	0.075	11/04/20	11/04/20	2045090	
Specific Conductance (E.C.)	SM 2510B	800	umhos/cm	2.0	0.20	11/04/20	11/04/20	2045079	
Fluoride (F)	EPA 300.0	0.47	mg/L	0.10	0.026	11/04/20	11/04/20	2045090	
Hardness, Total (as CaCO3)	Calculated	240	mg/L	6.6		11/12/20	11/12/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		11/10/20	11/10/20	2045079	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		11/12/20	11/12/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	0.97	mg/L	0.40	0.12	11/04/20	11/04/20	2045090	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/04/20	11/04/20	2045090	
pH (Lab)	SM 4500HB	8.3	pH Units			11/04/20	11/04/20	2045079	
Sulfate (SO4)	EPA 300.0	36	mg/L	0.50	0.14	11/04/20	11/04/20	2045090	
Total Filterable Residue/TDS	SM 2540C	450	mg/L	5.0	3.1	11/05/20	11/09/20	2045122	

Metals

Calcium (Ca)	EPA 200.7	65	mg/L	1.0	0.080	11/12/20	11/12/20	2046120	
Magnesium (Mg)	EPA 200.7	19	mg/L	1.0	0.51	11/12/20	11/12/20	2046120	
Potassium (K)	EPA 200.7	12	mg/L	1.0	0.18	11/12/20	11/12/20	2046120	
Sodium (Na)	EPA 200.7	88	mg/L	1.0	0.21	11/12/20	11/12/20	2046120	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)
pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.
ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

01/16

WO 2010-0276

Clinical Lab of San Bernardino, Inc. Chain of Custody

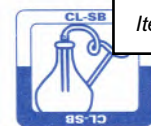
21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client		Destination Laboratory		Analysis Requested												Turn Around Time (TAT)	
City of Beaumont		[X] Clinical Grand Terrace / ELAP 1088		Fluoride (EPA 300.0)												10	
Address: 550 E. 6th St.		[] Clinical Lompoc / ELAP 1678		Chloride (EPA 300.0)												10	
Beaumont, CA. 92223		[] Other:		pH (SM 4500H+B)												10	
Client Contact:		FAX No.:		Specific Conductance (SM 2510B)													
Phone No.:				Sulfate (EPA 300.0)													
System No.:		Max Benefits - Beaumont GMZ		Ca, Mg, K, Na (EPA 200.7)													
Project:				Alkalinity (inc. HCO3, CO3, and OH)													
Sampled By: C. Hunter				Ammonia-N (EPA 350.1)													
Comments:				Nitrite-N (EPA 300.0)													
Email results to: Ajakher@ci.beaumont.ca.us,				Nitrate-N (EPA 300.0)													
ekhunter@dudek.com, sstuart@dudek.com				Total Dissolved Solids (SM 2540C)													
Date		Time		Sample Identification		Total Containers											
				Container ID		ChlorAC											
11/3/20		13:36		1 SW		ZnC4H6O4											
				3 SW		Na2SO3											
				STC		NaOH											
						HCl											
						HNO3											
						C6H8O6											
						NH4Cl											
						Na2S2O3											
						Unpreserved											
						Sample Type											
						Matrix											
Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other																	
Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush																	
Relinquished By (Sign)		Print Name / Company		Date / Time		Received By (Sign)		Print Name / Company									
<i>[Signature]</i>		C. Hunter / Dudek		11/3/20 14:00		<i>[Signature]</i>		St. Sybil / CUSB									
<i>[Signature]</i>		St. Sybil / CUSB		11/4/20 8:15		<i>[Signature]</i>		St. Sybil / CUSB									
<i>[Signature]</i>		St. Sybil / CUSB		11/4/20 9:05		<i>[Signature]</i>		St. Sybil / CUSB									

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C
 Shipped Via: [] Fed Ex [] Golden State Overnight [] UPS [] On Trac [] USPS [] Other
 Condition: [X] On Wet Ice [] On Blu Ice [X] Intact [] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____
 Receipt Comments: _____ Clinical Lab Receipt Temp.: 16 °C

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20K1074
Received: 11/11/20 15:26
Reported: 11/23/20

CC - 01 **20K1074-05 (Water)** **Sample Date:** 11/10/20 15:45 **Sampler:** Not Listed

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	150	mg/L	5.0		11/18/20	11/18/20	2046073	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/17/20	11/18/20	2047038	
Bicarbonate (HCO3)	SM 2320 B	180	mg/L	5.0		11/18/20	11/18/20	2046073	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		11/18/20	11/18/20	2046073	
Chloride (Cl)	EPA 300.0	56	mg/L	1.0	0.075	11/11/20	11/11/20	2046074	
Specific Conductance (E.C.)	SM 2510B	520	umhos/cm	2.0	0.20	11/11/20	11/11/20	2046073	
Fluoride (F)	EPA 300.0	0.18	mg/L	0.10	0.026	11/11/20	11/11/20	2046074	
Hardness, Total (as CaCO3)	Calculated	120	mg/L	6.6		11/18/20	11/18/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		11/18/20	11/18/20	2046073	
Inorganic Nitrogen	Calculated	1.9	mg/L	1.3		11/17/20	11/18/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	1.9	mg/L	0.40	0.12	11/11/20	11/11/20	2046074	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/11/20	11/11/20	2046074	
pH (Lab)	SM 4500HB	8.0	pH Units			11/11/20	11/11/20	2046073	
Sulfate (SO4)	EPA 300.0	21	mg/L	0.50	0.14	11/11/20	11/11/20	2046074	
Total Filterable Residue/TDS	SM 2540C	350	mg/L	5.0	3.1	11/14/20	11/16/20	2046176	

Metals

Calcium (Ca)	EPA 200.7	32	mg/L	1.0	0.080	11/18/20	11/18/20	2047063	
Magnesium (Mg)	EPA 200.7	11	mg/L	1.0	0.51	11/18/20	11/18/20	2047063	
Potassium (K)	EPA 200.7	12	mg/L	1.0	0.18	11/18/20	11/18/20	2047063	
Sodium (Na)	EPA 200.7	64	mg/L	1.0	0.21	11/18/20	11/18/20	2047063	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20K1074
Received: 11/11/20 15:26
Reported: 11/23/20

STC - 01 20K1074-07 (Water) Sample Date: 11/10/20 12:30 Sampler: Not Listed

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	220	mg/L	5.0		11/18/20	11/18/20	2046073	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/19/20	11/20/20	2047111	
Bicarbonate (HCO3)	SM 2320 B	270	mg/L	5.0		11/18/20	11/18/20	2046073	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		11/18/20	11/18/20	2046073	
Chloride (Cl)	EPA 300.0	68	mg/L	1.0	0.075	11/12/20	11/12/20	2046074	
Specific Conductance (E.C.)	SM 2510B	670	umhos/cm	2.0	0.20	11/11/20	11/11/20	2046073	
Fluoride (F)	EPA 300.0	0.39	mg/L	0.10	0.026	11/12/20	11/12/20	2046074	
Hardness, Total (as CaCO3)	Calculated	210	mg/L	6.6		11/18/20	11/18/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		11/18/20	11/18/20	2046073	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		11/19/20	11/20/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	0.86	mg/L	0.40	0.12	11/12/20	11/12/20	2046074	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/12/20	11/12/20	2046074	
pH (Lab)	SM 4500HB	8.2	pH Units			11/11/20	11/11/20	2046073	
Sulfate (SO4)	EPA 300.0	30	mg/L	0.50	0.14	11/12/20	11/12/20	2046074	
Total Filterable Residue/TDS	SM 2540C	450	mg/L	5.0	3.1	11/14/20	11/16/20	2046176	

Metals

Calcium (Ca)	EPA 200.7	57	mg/L	1.0	0.080	11/18/20	11/18/20	2047063	
Magnesium (Mg)	EPA 200.7	18	mg/L	1.0	0.51	11/18/20	11/18/20	2047063	
Potassium (K)	EPA 200.7	9.4	mg/L	1.0	0.18	11/18/20	11/18/20	2047063	
Sodium (Na)	EPA 200.7	70	mg/L	1.0	0.21	11/18/20	11/18/20	2047063	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

Clinical Lab of San Bernardino, Inc.

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Chain of Custody

WO 20K1074

0/0/14

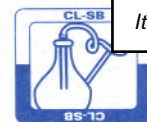
5.1 °C

Client	Destination Laboratory		Sample Identification			Analysis Requested	Turn Around Time (TAT)
	City of Beaumont	No. of Preserved Cont.	Date	Time	Comments		
Address: 550 E. 6th St. Beaumont, CA 92223 Client Contact: Thaxton VanBelle Phone No.: 951-769-8520 FAX No.: 951-769-8526 System No.: Project: Max Benefits - Beaumont GMZ Sampled By: Comments: Email results to: TVanBelle@beaumontca.gov, ckhunter@dudek.com, sstuart@dudek.com	<input checked="" type="checkbox"/> Clinical Grand Terrace / ELAP 1088 <input type="checkbox"/> Clinical Lompoc / ELAP 1078 <input type="checkbox"/> Other:	Total Containers ChlorAC ZnC4H6O4 Na2SO3 NaOH HCl HNO3 C6H8O6 NH4Cl Na2S2O3 Unpreserved	Matrix HS GW ST1 GW 2B1 GW 2B2 GW 1 SW 3 SW STC 01	Date 11/20/20 13:00 13:30 14:00 15:45 14:45 12:30	Time 11:30 Henry Schwankert 13:00 Santina 13:30 Santina-2B/1 14:00 Santina-2B/2 15:45 CC-01 14:45 CC-03 12:30 STC 01	pH (SM 4500H+B) Specific Conductance (SM 2510B) Sulfate (EPA 300.0) Ca, Mg, K, Na (EPA 200.7) Alkalinity (inc. HCO3, CO3, and OH) Ammonia-N (EPA 350.1) Nitrite-N (EPA 300.0) Nitrate-N (EPA 300.0) Total Dissolved Solids (SM 2540C)	10 10 10 10 10 10 10 10 10
Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well							
Relinquished By (Sign)			Date / Time		Received By (Sign)	Print Name / Company	
<i>Mike B / LAB</i>			11/20 16:15		<i>Salgar</i>	<i>Mike B / LAB</i>	
<i>Mike B / LAB</i>			11-20 15:24		<i>Juanita</i>	<i>Cleanette Hernandez / CSB</i>	

(Lab Use Only) Lompoc Lab Receipt Temp.: 5.1 °C
 Shipped Via: Fed Ex Golden State Overnight UPS OnTrac USPS Other
 Condition: On Wet Ice On Blu Ice Intact Custody Seals Samples / COC Checked By:
 Receipt Comments: Work Order Logged By: _____
 Clinical Lab Receipt Temp.: _____ °C

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20K2250
Received: 11/26/20 09:15
Reported: 12/10/20

CC - 03 **20K2250-02 (Water)** **Sample Date:** 11/25/20 14:45 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO₃)	SM 2320 B	140	mg/L	5.0		12/03/20	12/03/20	2049021	
Ammonia as N (NH ₃ -N)	EPA 350.1	ND	mg/L	0.50	0.15	11/30/20	12/01/20	2049028	
Bicarbonate (HCO₃)	SM 2320 B	170	mg/L	5.0		12/03/20	12/03/20	2049021	
Carbonate (CO ₃)	SM 2320B	ND	mg/L	5.0		12/03/20	12/03/20	2049021	
Chloride (Cl)	EPA 300.0	58	mg/L	1.0	0.075	11/27/20	11/27/20	2048062	
Specific Conductance (E.C.)	SM 2510B	530	umhos/cm	2.0	0.20	11/30/20	11/30/20	2049021	
Fluoride (F)	EPA 300.0	0.17	mg/L	0.10	0.026	11/27/20	11/27/20	2048062	
Hardness, Total (as CaCO₃)	Calculated	110	mg/L	6.6		12/03/20	12/03/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		12/03/20	12/03/20	2049021	
Inorganic Nitrogen	Calculated	4.0	mg/L	1.3		11/30/20	12/01/20	[CALC]	
Nitrate as N (NO₃-N)	EPA 300.0	4.0	mg/L	0.40	0.12	11/27/20	11/27/20	2048062	
Nitrite as N (NO ₂ -N)	EPA 300.0	ND	mg/L	0.40	0.17	11/27/20	11/27/20	2048062	
pH (Lab)	SM 4500HB	8.0	pH Units			11/30/20	11/30/20	2049021	
Sulfate (SO₄)	EPA 300.0	18	mg/L	0.50	0.14	11/27/20	11/27/20	2048062	
Total Filterable Residue/TDS	SM 2540C	300	mg/L	5.0	3.1	12/01/20	12/02/20	2049036	

Metals

Calcium (Ca)	EPA 200.7	28	mg/L	1.0	0.080	12/03/20	12/03/20	2049122	
Magnesium (Mg)	EPA 200.7	9.2	mg/L	1.0	0.51	12/03/20	12/03/20	2049122	
Potassium (K)	EPA 200.7	12	mg/L	1.0	0.18	12/03/20	12/03/20	2049122	
Sodium (Na)	EPA 200.7	57	mg/L	1.0	0.21	12/03/20	12/03/20	2049122	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of 550 East 6th Street Beaumont CA, 92223	Project: Maximum Benefit-Surface Water Sub Project: Beaumont GMZ Project Manager: Thaxton Van Belle	Work Order: 20K2250 Received: 11/26/20 09:15 Reported: 12/10/20
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STC - 01 20K2250-03 (Water) Sample Date: 11/25/20 15:00 Sampler: C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	210	mg/L	5.0		12/03/20	12/03/20	2049021	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/30/20	12/01/20	2049028	
Bicarbonate (HCO3)	SM 2320 B	260	mg/L	5.0		12/03/20	12/03/20	2049021	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		12/03/20	12/03/20	2049021	
Chloride (Cl)	EPA 300.0	65	mg/L	1.0	0.075	11/27/20	11/27/20	2048062	
Specific Conductance (E.C.)	SM 2510B	670	umhos/cm	2.0	0.20	11/30/20	11/30/20	2049021	
Fluoride (F)	EPA 300.0	0.38	mg/L	0.10	0.026	11/27/20	11/27/20	2048062	
Hardness, Total (as CaCO3)	Calculated	190	mg/L	6.6		12/03/20	12/03/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		12/03/20	12/03/20	2049021	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		11/30/20	12/01/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	0.60	mg/L	0.40	0.12	11/27/20	11/27/20	2048062	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/27/20	11/27/20	2048062	
pH (Lab)	SM 4500HB	8.2	pH Units			11/30/20	11/30/20	2049021	
Sulfate (SO4)	EPA 300.0	27	mg/L	0.50	0.14	11/27/20	11/27/20	2048062	
Total Filterable Residue/TDS	SM 2540C	380	mg/L	5.0	3.1	12/01/20	12/02/20	2049036	

Metals

Calcium (Ca)	EPA 200.7	52	mg/L	1.0	0.080	12/03/20	12/03/20	2049122	
Magnesium (Mg)	EPA 200.7	14	mg/L	1.0	0.51	12/03/20	12/03/20	2049122	
Potassium (K)	EPA 200.7	8.1	mg/L	1.0	0.18	12/03/20	12/03/20	2049122	
Sodium (Na)	EPA 200.7	68	mg/L	1.0	0.21	12/03/20	12/03/20	2049122	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

Clinical Lab of San Bernardino, Inc.

Chain of Custody

WO 20K2250

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client		City of Beaumont		Destination Laboratory		Analysis Requested													Turn Around Time (TAT)	
Address:		550 E. 6th St. Beaumont, CA. 92223		<input checked="" type="checkbox"/> Clinical Grand Terrace / ELAP 1088 <input type="checkbox"/> Clinical Lompoc / ELAP 1678 <input type="checkbox"/> Other:																
Client Contact:		FAX No.:		No. of Preserved Cont.																
System No.:		Project:		Total Containers																
Sampled By: <i>CHunter</i>		Max Benefits - Beaumont GMZ		ChlorAC																
Comments:		Email results to: Ajakhher@ci.beaumont.ca.us , ckhunter@dudek.com , ssuuart@dudek.com		ZnC4H6O4																
Date	Time	Sample Identification		Na2SO3																
11/25/20	16:00	CC-01	Unpreserved																	
	17:45	CC-03	Sample Type																	
	15:00	STC-01	Matrix																	
			Container ID																	
Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush																				
Relinquished By (Sign)				Print Name / Company				Date / Time				Received By (Sign)					Print Name / Company			
<i>[Signature]</i>				C. Hunter / Dudek				11/25/20 16:15 / 8:30				<i>[Signature]</i>					J. W. ... / ...			
<i>[Signature]</i>				J. Waddy / CUB				11-26-20 / 9:15 CUB				<i>[Signature]</i>					... / ...			
(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C Shipped Via: <input type="checkbox"/> Fed Ex <input type="checkbox"/> Golden State Overnight <input type="checkbox"/> UPS <input type="checkbox"/> OnTrac <input type="checkbox"/> USPS <input type="checkbox"/> Other _____ Condition: <input checked="" type="checkbox"/> On Wet Ice <input type="checkbox"/> On Blu Ice <input type="checkbox"/> Intact <input type="checkbox"/> Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____ Receipt Comments: _____ Clinical Lab Receipt Temp.: <i>7.00</i> °C																				

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of 550 East 6th Street Beaumont CA, 92223	Project: Maximum Benefit-Surface Water Sub Project: Beaumont GMZ Project Manager: Thaxton Van Belle	Work Order: 20L1129 Received: 12/11/20 11:35 Reported: 12/23/20
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CC - 03 **20L1129-02 (Water)** **Sample Date:** 12/10/20 15:45 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	140	mg/L	5.0		12/18/20	12/18/20	2050140	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	12/15/20	12/15/20	2051032	
Bicarbonate (HCO3)	SM 2320 B	170	mg/L	5.0		12/18/20	12/18/20	2050140	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		12/18/20	12/18/20	2050140	
Chloride (Cl)	EPA 300.0	61	mg/L	1.0	0.075	12/11/20	12/11/20	2050143	
Specific Conductance (E.C.)	SM 2510B	530	umhos/cm	2.0	0.20	12/11/20	12/11/20	2050140	
Fluoride (F)	EPA 300.0	0.18	mg/L	0.10	0.026	12/11/20	12/11/20	2050143	
Hardness, Total (as CaCO3)	Calculated	110	mg/L	6.6		12/21/20	12/21/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		12/18/20	12/18/20	2050140	
Inorganic Nitrogen	Calculated	5.7	mg/L	1.3		12/15/20	12/15/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	5.7	mg/L	0.40	0.12	12/11/20	12/11/20	2050143	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	12/11/20	12/11/20	2050143	
pH (Lab)	SM 4500HB	8.0	pH Units			12/11/20	12/11/20	2050140	
Sulfate (SO4)	EPA 300.0	20	mg/L	0.50	0.14	12/11/20	12/11/20	2050143	
Total Filterable Residue/TDS	SM 2540C	300	mg/L	5.0	3.1	12/14/20	12/16/20	2051009	

Metals

Calcium (Ca)	EPA 200.7	28	mg/L	1.0	0.080	12/21/20	12/21/20	2052021	
Magnesium (Mg)	EPA 200.7	8.6	mg/L	1.0	0.51	12/21/20	12/21/20	2052021	
Potassium (K)	EPA 200.7	12	mg/L	1.0	0.18	12/21/20	12/21/20	2052021	
Sodium (Na)	EPA 200.7	57	mg/L	1.0	0.21	12/21/20	12/21/20	2052021	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20L1129
Received: 12/11/20 11:35
Reported: 12/23/20

STC - 01 20L1129-03 (Water) Sample Date: 12/10/20 15:00 Sampler: C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO ₃)	SM 2320 B	230	mg/L	5.0		12/18/20	12/18/20	2050140	
Ammonia as N (NH ₃ -N)	EPA 350.1	ND	mg/L	0.50	0.15	12/15/20	12/15/20	2051032	
Bicarbonate (HCO ₃)	SM 2320 B	280	mg/L	5.0		12/18/20	12/18/20	2050140	
Carbonate (CO ₃)	SM 2320B	ND	mg/L	5.0		12/18/20	12/18/20	2050140	
Chloride (Cl)	EPA 300.0	69	mg/L	1.0	0.075	12/11/20	12/11/20	2050143	
Specific Conductance (E.C.)	SM 2510B	670	umhos/cm	2.0	0.20	12/11/20	12/11/20	2050140	
Fluoride (F)	EPA 300.0	0.41	mg/L	0.10	0.026	12/11/20	12/11/20	2050143	
Hardness, Total (as CaCO ₃)	Calculated	190	mg/L	6.6		12/21/20	12/21/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		12/18/20	12/18/20	2050140	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		12/15/20	12/15/20	[CALC]	
Nitrate as N (NO ₃ -N)	EPA 300.0	0.67	mg/L	0.40	0.12	12/11/20	12/11/20	2050143	
Nitrite as N (NO ₂ -N)	EPA 300.0	ND	mg/L	0.40	0.17	12/11/20	12/11/20	2050143	
pH (Lab)	SM 4500HB	8.1	pH Units			12/11/20	12/11/20	2050140	
Sulfate (SO ₄)	EPA 300.0	29	mg/L	0.50	0.14	12/11/20	12/11/20	2050143	
Total Filterable Residue/TDS	SM 2540C	370	mg/L	5.0	3.1	12/14/20	12/16/20	2051009	

Metals

Calcium (Ca)	EPA 200.7	51	mg/L	1.0	0.080	12/21/20	12/21/20	2052021	
Magnesium (Mg)	EPA 200.7	15	mg/L	1.0	0.51	12/21/20	12/21/20	2052021	
Potassium (K)	EPA 200.7	7.6	mg/L	1.0	0.18	12/21/20	12/21/20	2052021	
Sodium (Na)	EPA 200.7	63	mg/L	1.0	0.21	12/21/20	12/21/20	2052021	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

0/8/6

Clinical Lab of San Bernardino, Inc.

Chain of Custody

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

WO 20129

Client		Destination Laboratory		Analysis Requested		Turn Around Time (TAT)
City of Beaumont		City of Beaumont		Analysis Requested		
Address: 550 E. 6th St. Beaumont, CA. 92223		<input checked="" type="checkbox"/> Clinical Grand Terrace / ELAP 1088 <input type="checkbox"/> Clinical Lompoc / ELAP 1678 <input type="checkbox"/> Other:		Fluoride (EPA 300.0)		10
Client Contact:		Total Containers		Chloride (EPA 300.0)		10
Phone No.: FAX No.:		ChlorAC		pH (SM 4500H+B)		10
System No.:		ZnC4H6O4		Specific Conductance (SM 2510B)		
Project: Max Benefits - Beaumont GMZ		Na2SO3		Sulfate (EPA 300.0)		
Sampled By: <i>C Hunter</i>		NaOH		Ca, Mg, K, Na (EPA 200.7)		
Comments:		HCl		Alkalinity (inc. HCO3, CO3, and OH)		
Email results to: Ajakher@ci.beaumont.ca.us, ckhunter@dudek.com, sstuart@dudek.com		HNO3		Ammonia-N (EPA 350.1)		
Date		C6H8O6		Nitrite-N (EPA 300.0)		
Time		NH4Cl		Nitrate-N (EPA 300.0)		
Sample Identification		Na2S2O3		Total Dissolved Solids (SM 2540C)		
12/10/20		Unpreserved				
16:15		Sample Type				
15:45		Matrix				
15:00		Container ID				
CC-01		1 SW				
CC-03		3 SW				
STC-01		STC SW				
Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other				TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush		
Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well				Received By (Sign)		
Relinquished By (Sign)		Print Name / Company		Date / Time		Print Name / Company
<i>C Hunter</i>		C. Hunter / Dudek		12/10/20 16:30		
<i>St Shyla / CUSB</i>		St Shyla / CUSB		12/11/2020 / 1020		St Shyla / CUSB
				12/11/2020 / 1135		St Shyla / CUSB
(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C		Work Order Logged By: _____				
Shipped Via: <input type="checkbox"/> Fed Ex <input type="checkbox"/> Golden State Overnight <input type="checkbox"/> UPS <input type="checkbox"/> OnTrac <input type="checkbox"/> USPS <input type="checkbox"/> Other		Samples / COC Checked By: _____				
Condition: <input checked="" type="checkbox"/> On Wet Ice <input type="checkbox"/> On Blu Ice <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Custody Seals		Clinical Lab Receipt Temp.: 11.1 °C				

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20L2137
Received: 12/24/20 08:40
Reported: 01/07/21

CC - 03 20L2137-02 (Water) Sample Date: 12/23/20 15:45 Sampler: C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	200	mg/L	5.0		01/04/21	01/04/21	2053064	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	12/29/20	12/30/20	2053059	
Bicarbonate (HCO3)	SM 2320 B	240	mg/L	5.0		01/04/21	01/04/21	2053064	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		01/04/21	01/04/21	2053064	
Chloride (Cl)	EPA 300.0	91	mg/L	1.0	0.075	12/24/20	12/24/20	2052096	
Specific Conductance (E.C.)	SM 2510B	730	umhos/cm	2.0	0.20	01/04/21	01/04/21	2053064	
Fluoride (F)	EPA 300.0	0.32	mg/L	0.10	0.026	12/24/20	12/24/20	2052096	
Hardness, Total (as CaCO3)	Calculated	180	mg/L	6.6		01/06/21	01/06/21	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		01/04/21	01/04/21	2053064	
Inorganic Nitrogen	Calculated	6.1	mg/L	1.3		12/29/20	12/30/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	6.1	mg/L	0.40	0.12	12/24/20	12/24/20	2052096	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	12/24/20	12/24/20	2052096	
pH (Lab)	SM 4500HB	8.0	pH Units			12/24/20	12/24/20	2052099	
Sulfate (SO4)	EPA 300.0	30	mg/L	0.50	0.14	12/24/20	12/24/20	2052096	
Total Filterable Residue/TDS	SM 2540C	410	mg/L	5.0	3.1	12/28/20	12/30/20	2053023	

Metals

Calcium (Ca)	EPA 200.7	47	mg/L	1.0	0.080	01/06/21	01/06/21	2102078	
Magnesium (Mg)	EPA 200.7	15	mg/L	1.0	0.51	01/06/21	01/06/21	2102078	
Potassium (K)	EPA 200.7	16	mg/L	1.0	0.18	01/06/21	01/06/21	2102078	
Sodium (Na)	EPA 200.7	90	mg/L	1.0	0.21	01/06/21	01/06/21	2102078	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

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Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20L2137
Received: 12/24/20 08:40
Reported: 01/07/21

STC - 01	20L2137-03 (Water)	Sample Date: 12/23/20 15:00	Sampler: C. Hunter						
Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier

General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	230	mg/L	5.0		01/04/21	01/04/21	2053064	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	12/29/20	12/30/20	2053059	
Bicarbonate (HCO3)	SM 2320 B	280	mg/L	5.0		01/04/21	01/04/21	2053064	
Carbonate (CO3)	SM 2320B	2.9	mg/L	5.0		01/04/21	01/04/21	2053064	J
Chloride (Cl)	EPA 300.0	69	mg/L	1.0	0.075	12/24/20	12/24/20	2052096	
Specific Conductance (E.C.)	SM 2510B	680	umhos/cm	2.0	0.20	01/04/21	01/04/21	2053064	
Fluoride (F)	EPA 300.0	0.41	mg/L	0.10	0.026	12/24/20	12/24/20	2052096	
Hardness, Total (as CaCO3)	Calculated	210	mg/L	6.6		01/06/21	01/06/21	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		01/04/21	01/04/21	2053064	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		12/29/20	12/30/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	0.58	mg/L	0.40	0.12	12/24/20	12/24/20	2052096	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	12/24/20	12/24/20	2052096	
pH (Lab)	SM 4500HB	8.1	pH Units			12/24/20	12/24/20	2052099	
Sulfate (SO4)	EPA 300.0	30	mg/L	0.50	0.14	12/24/20	12/24/20	2052096	
Total Filterable Residue/TDS	SM 2540C	390	mg/L	5.0	3.1	12/28/20	12/30/20	2053023	

Metals

Calcium (Ca)	EPA 200.7	56	mg/L	1.0	0.080	01/06/21	01/06/21	2102078	
Magnesium (Mg)	EPA 200.7	17	mg/L	1.0	0.51	01/06/21	01/06/21	2102078	
Potassium (K)	EPA 200.7	8.4	mg/L	1.0	0.18	01/06/21	01/06/21	2102078	
Sodium (Na)	EPA 200.7	69	mg/L	1.0	0.21	01/06/21	01/06/21	2102078	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)
pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.
ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

2/10/16

WO 2012137

Clinical Lab of San Bernardino, Inc. Chain of Custody

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client		Destination Laboratory		Analysis Requested												Turn Around Time (TAT)																																																																																																															
City of Beaumont		[X] Clinical Grand Terrace / ELAP 1088 [] Clinical Lompoc / ELAP 1678 [] Other:		<table border="1"> <thead> <tr> <th rowspan="2">No. of Preserved Cont.</th> <th colspan="12">Total Containers</th> </tr> <tr> <th>ChlorAC</th> <th>ZnC4H6O4</th> <th>Na2SO3</th> <th>NaOH</th> <th>HCl</th> <th>HNO3</th> <th>C6H8O6</th> <th>NH4Cl</th> <th>Na2S2O3</th> <th>Unpreserved</th> <th>Sample Type</th> <th>Matrix</th> </tr> </thead> <tbody> <tr> <td>2</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td> <td>SW</td> <td></td> </tr> <tr> <td>2</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td> <td>SW</td> <td></td> </tr> <tr> <td>7</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td> <td>SW</td> <td></td> </tr> </tbody> </table>												No. of Preserved Cont.	Total Containers												ChlorAC	ZnC4H6O4	Na2SO3	NaOH	HCl	HNO3	C6H8O6	NH4Cl	Na2S2O3	Unpreserved	Sample Type	Matrix	2											X	SW		2											X	SW		7											X	SW		<table border="1"> <thead> <tr> <th>Fluoride (EPA 300.0)</th> <th>Chloride (EPA 300.0)</th> <th>pH (SM 4500H+B)</th> <th>Specific Conductance (SM 2510B)</th> <th>Sulfate (EPA 300.0)</th> <th>Ca, Mg, K, Na (EPA 200.7)</th> <th>Alkalinity (inc. HCO3, CO3, and OH)</th> <th>Ammonia-N (EPA 350.1)</th> <th>Nitrite-N (EPA 300.0)</th> <th>Nitrate-N (EPA 300.0)</th> <th>Total Dissolved Solids (SM 2540C)</th> </tr> </thead> <tbody> <tr> <td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td> </tr> <tr> <td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td> </tr> <tr> <td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td> </tr> </tbody> </table>	Fluoride (EPA 300.0)	Chloride (EPA 300.0)	pH (SM 4500H+B)	Specific Conductance (SM 2510B)	Sulfate (EPA 300.0)	Ca, Mg, K, Na (EPA 200.7)	Alkalinity (inc. HCO3, CO3, and OH)	Ammonia-N (EPA 350.1)	Nitrite-N (EPA 300.0)	Nitrate-N (EPA 300.0)	Total Dissolved Solids (SM 2540C)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
No. of Preserved Cont.	Total Containers																																																																																																																														
	ChlorAC	ZnC4H6O4	Na2SO3	NaOH	HCl	HNO3	C6H8O6	NH4Cl	Na2S2O3	Unpreserved	Sample Type	Matrix																																																																																																																			
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Fluoride (EPA 300.0)	Chloride (EPA 300.0)	pH (SM 4500H+B)	Specific Conductance (SM 2510B)	Sulfate (EPA 300.0)	Ca, Mg, K, Na (EPA 200.7)	Alkalinity (inc. HCO3, CO3, and OH)	Ammonia-N (EPA 350.1)	Nitrite-N (EPA 300.0)	Nitrate-N (EPA 300.0)	Total Dissolved Solids (SM 2540C)																																																																																																																					
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Address: 550 E. 6th St. Beaumont, CA. 92223		FAX No.:		Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other												Comments																																																																																																															
Client Contact:		Project: Max Benefits - Beaumont GMZ		Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well												TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush																																																																																																															
Phone No.:		Sampled By: C. Hunter		Relinquished By (Sign)												Print Name / Company																																																																																																															
System No.:		Comments: Email results to: Ajakher@ci.beaumont.ca.us, ekhunter@dudek.com, sstuart@dudek.com		Date / Time												Received By (Sign)																																																																																																															
Date		Sample Identification		Print Name / Company												Print Name / Company																																																																																																															
12/29/20	16:15	CC-01	C. Hunter / Dudek	12/29/20	16:30	S. Styles / CCSA												S. Styles / CCSA																																																																																																													
1	15:45	CC-03	S. Styles / CCSA	12/29/20	7:55	AJAKHER												AJAKHER																																																																																																													
1	15:00	STC-01		12/29/20	8:40																																																																																																																										

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C
 Shipped Via: [] Fed Ex [] Golden State Overnight [] UPS [] OnTrac [] USPS [] Other
 Condition: [X] On Wet Ice [] On Blu Ice [] Intact [] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____
 Receipt Comments: Clinical Lab Receipt Temp.: 1.3A °C

APPENDIX M

**Hydrographs of Groundwater Elevations at Wells in the
Beaumont Groundwater Management Zone**

APPENDIX M

Groundwater Elevation Hydrographs for Beaumont Groundwater Management Zone

Table at Contents

Figure

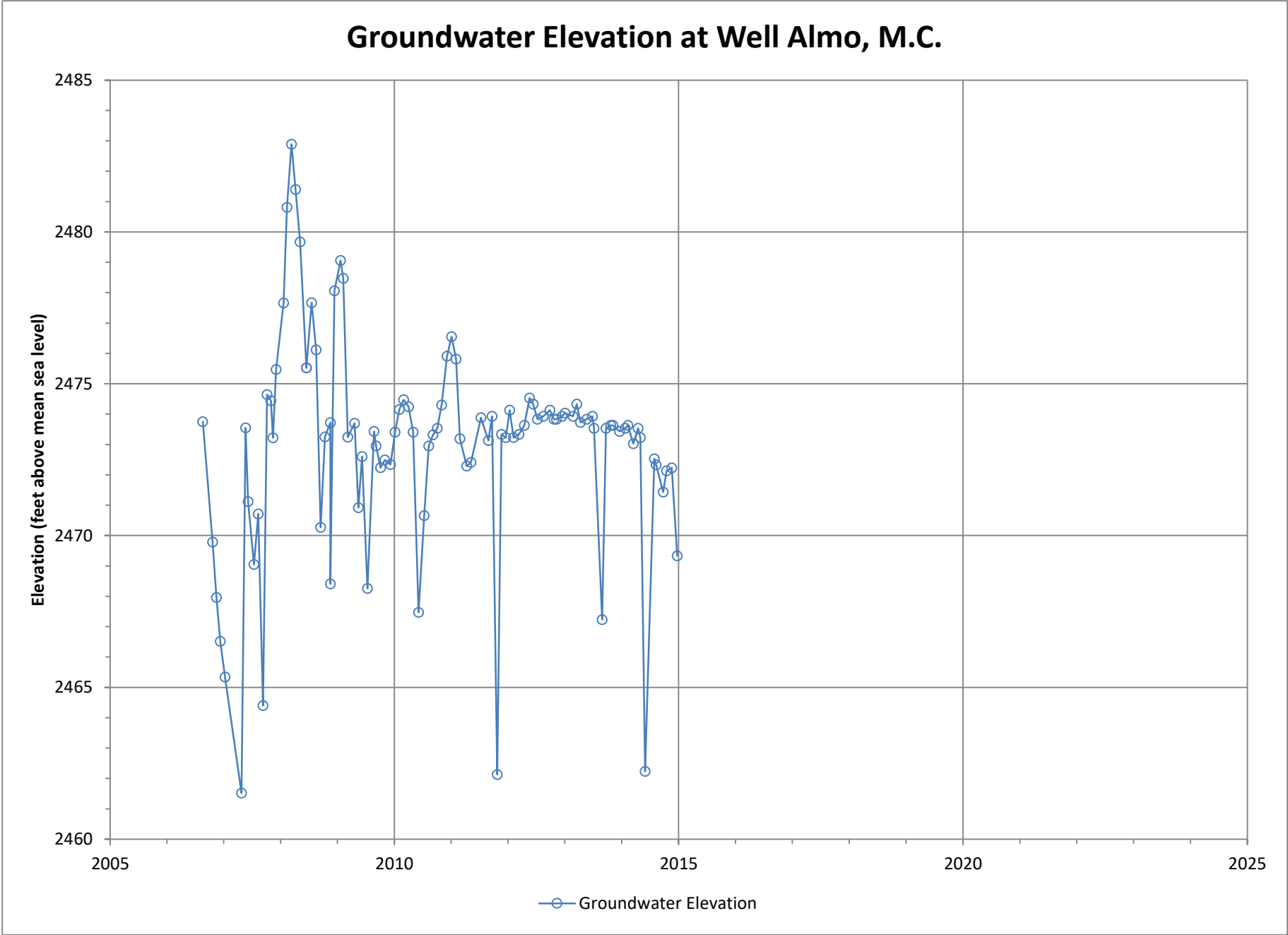
- M-1 Groundwater Elevation Hydrograph at Well Almo, M.C.
- M-2 Groundwater Elevation Hydrograph at Well Arnett, F.
- M-3 Groundwater Elevation Hydrograph at Well BCV Rec & Parks
- M-4 Groundwater Elevation Hydrograph at Cemetery Well 1
- M-5 Groundwater Elevation Hydrograph at Well Sunny Slope Cemetery
- M-6 Groundwater Elevation Hydrograph at Well BCVWD-02
- M-7 Groundwater Elevation Hydrograph at Well BCVWD-04A
- M-8 Groundwater Elevation Hydrograph at Well BCVWD-05
- M-9 Groundwater Elevation Hydrograph at Well BCVWD-06
- M-10 Groundwater Elevation Hydrograph at Well BCVWD-10
- M-11 Groundwater Elevation Hydrograph at Well BCVWD-11
- M-12 Groundwater Elevation Hydrograph at Well BCVWD-12
- M-13 Groundwater Elevation Hydrograph at Well BCVWD-13
- M-14 Groundwater Elevation Hydrograph at Well BCVWD-14
- M-15 Groundwater Elevation Hydrograph at Well BCVWD-18
- M-16 Groundwater Elevation Hydrograph at Well BCVWD-19
- M-17 Groundwater Elevation Hydrograph at Well BCVWD-20
- M-18 Groundwater Elevation Hydrograph at Well BCVWD-21
- M-19 Groundwater Elevation Hydrograph at Well BCVWD-23
- M-20 Groundwater Elevation Hydrograph at Well BCVWD-25
- M-21 Groundwater Elevation Hydrograph at Well BCVWD-26
- M-22 Groundwater Elevation Hydrograph at Well BCVWD-29
- M-23 Groundwater Elevation Hydrograph at Well BCVWD MW-1
- M-24 Groundwater Elevation Hydrograph at Well BCVWD MW-2
- M-25 Groundwater Elevation Hydrograph at Well BCVWD Bonita Vista #1
- M-26 Groundwater Elevation Hydrograph at Well BCVWD Bonita Vista #3
- M-27 Groundwater Elevation Hydrograph at Well BVM-2
- M-28 Groundwater Elevation Hydrograph at Well Beckman, Walt
- M-29 Groundwater Elevation Hydrograph at Well Bryan, Paul
- M-30 Groundwater Elevation Hydrograph at Well Oak Valley #1
- M-31 Groundwater Elevation Hydrograph at Well Cherry Valley MWC Well 1
- M-32 Groundwater Elevation Hydrograph at Well Cherry Valley Nursery
- M-33 Groundwater Elevation Hydrograph at Well BAN C-2A
- M-34 Groundwater Elevation Hydrograph at Well BAN C-3

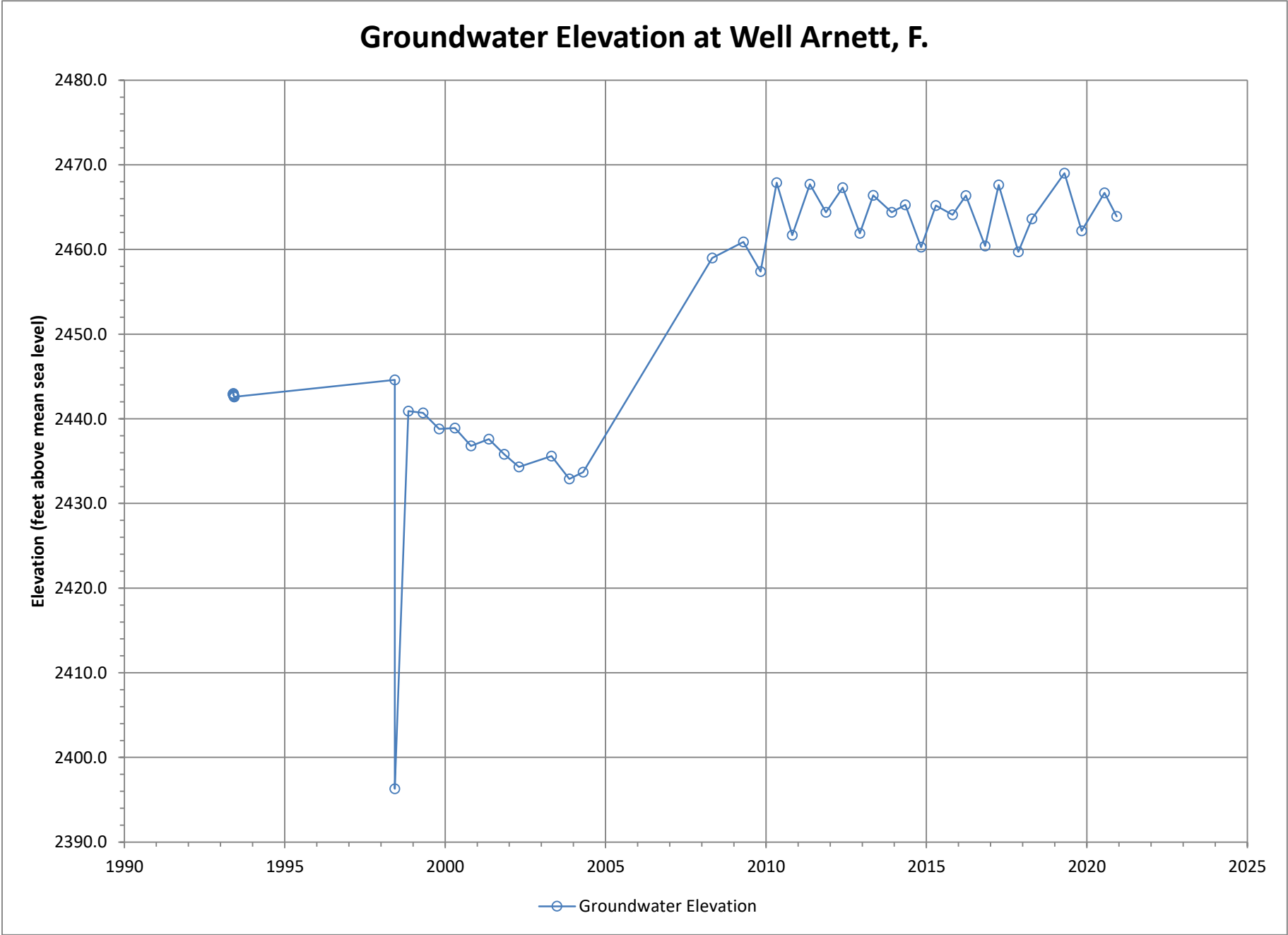
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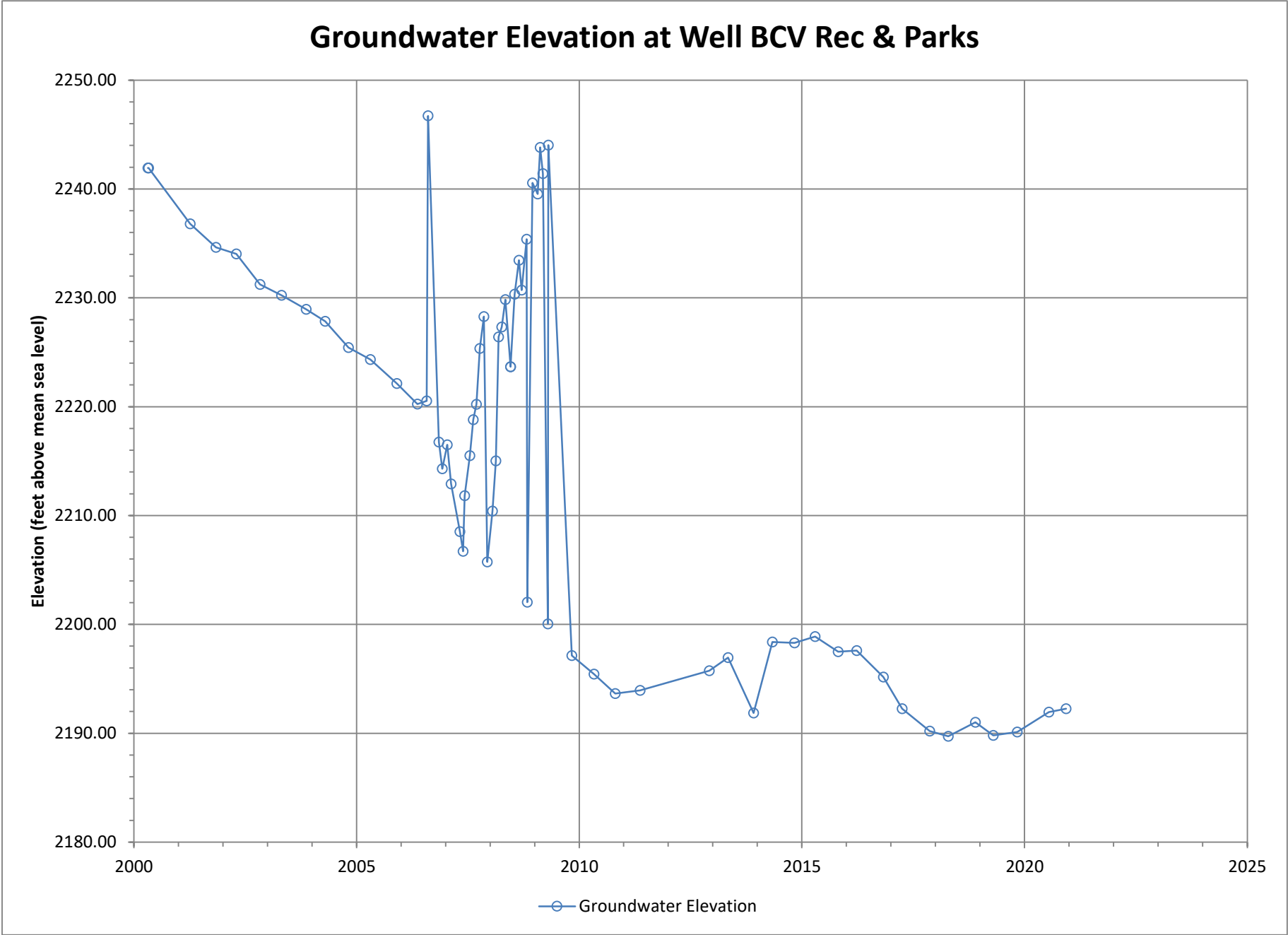
- M-35 Groundwater Elevation Hydrograph at Well BAN C-4
- M-36 Groundwater Elevation Hydrograph at Well BAN M2
- M-37 Groundwater Elevation Hydrograph at Well BAN M3
- M-38 Groundwater Elevation Hydrograph at Well BAN M9
- M-39 Groundwater Elevation Hydrograph at Well County of Riverside #608
- M-40 Groundwater Elevation Hydrograph at Well Cunningham, Ruth
- M-41 Groundwater Elevation Hydrograph at Well Delph, Michelle
- M-42 Groundwater Elevation Hydrograph at Well Dowling, Francis M #2
- M-43 Groundwater Elevation Hydrograph at Dowling Orchard Well
- M-44 Groundwater Elevation Hydrograph at Randy Downing Well
- M-45 Groundwater Elevation Hydrograph at Well Garnar, Wilman J.
- M-46 Groundwater Elevation Hydrograph at Well Hallana Equities
- M-47 Groundwater Elevation Hydrograph at Well Hallana Equities No. 1
- M-48 Groundwater Elevation Hydrograph at Well Hewitt, Frank #2
- M-49 Groundwater Elevation Hydrograph at Well Hewitt, Patricia #3
- M-50 Groundwater Elevation Hydrograph at Well Illy, Stefan #1
- M-51 Groundwater Elevation Hydrograph at Well Kramer, Don
- M-52 Groundwater Elevation Hydrograph at Well Lamay, H.
- M-53 Groundwater Elevation Hydrograph at Well Magallon, Jorge
- M-54 Groundwater Elevation Hydrograph at MCM Poultry Ranch Well
- M-55 Groundwater Elevation Hydrograph at Well Morongo C
- M-56 Groundwater Elevation Hydrograph at Oak Valley Office Well
- M-57 Groundwater Elevation Hydrograph at Well Singleton Ranch 5
- M-58 Groundwater Elevation Hydrograph at Well Singleton Ranch 7
- M-59 Groundwater Elevation Hydrograph at Pardee Well
- M-60 Groundwater Elevation Hydrograph at Well Pistilli, Joe
- M-61 Groundwater Elevation Hydrograph at Well Jurado #569
- M-62 Groundwater Elevation Hydrograph at Well Bo Un, Kim #106
- M-63 Groundwater Elevation Hydrograph at Well Presley
- M-64 Groundwater Elevation Hydrograph at Well Rancho Calimesa 3
- M-65 Groundwater Elevation Hydrograph at Well RCWMD MW-1
- M-66 Groundwater Elevation Hydrograph at Well RCWMD MW-2
- M-67 Groundwater Elevation Hydrograph at Well RCWMD MW-3
- M-68 Groundwater Elevation Hydrograph at Well RCWMD MW-4
- M-69 Groundwater Elevation Hydrograph at Well RCWMD MW-5
- M-70 Groundwater Elevation Hydrograph at Well RCWMD MW-6
- M-71 Groundwater Elevation Hydrograph at Well RCWMD MW-7
- M-72 Groundwater Elevation Hydrograph at Well RCWMD MW-8
- M-73 Groundwater Elevation Hydrograph at Well RCWMD MW-9
- M-74 Groundwater Elevation Hydrograph at Well RCWMD OBMW-1
- M-75 Groundwater Elevation Hydrograph at Well RCWMD OBMW-2
- M-76 Groundwater Elevation Hydrograph at Well RCWMD OBMW-3
- M-77 Groundwater Elevation Hydrograph at Well RCWMD OBMW-4
- M-78 Groundwater Elevation Hydrograph at Well SGPWA 335714116565001

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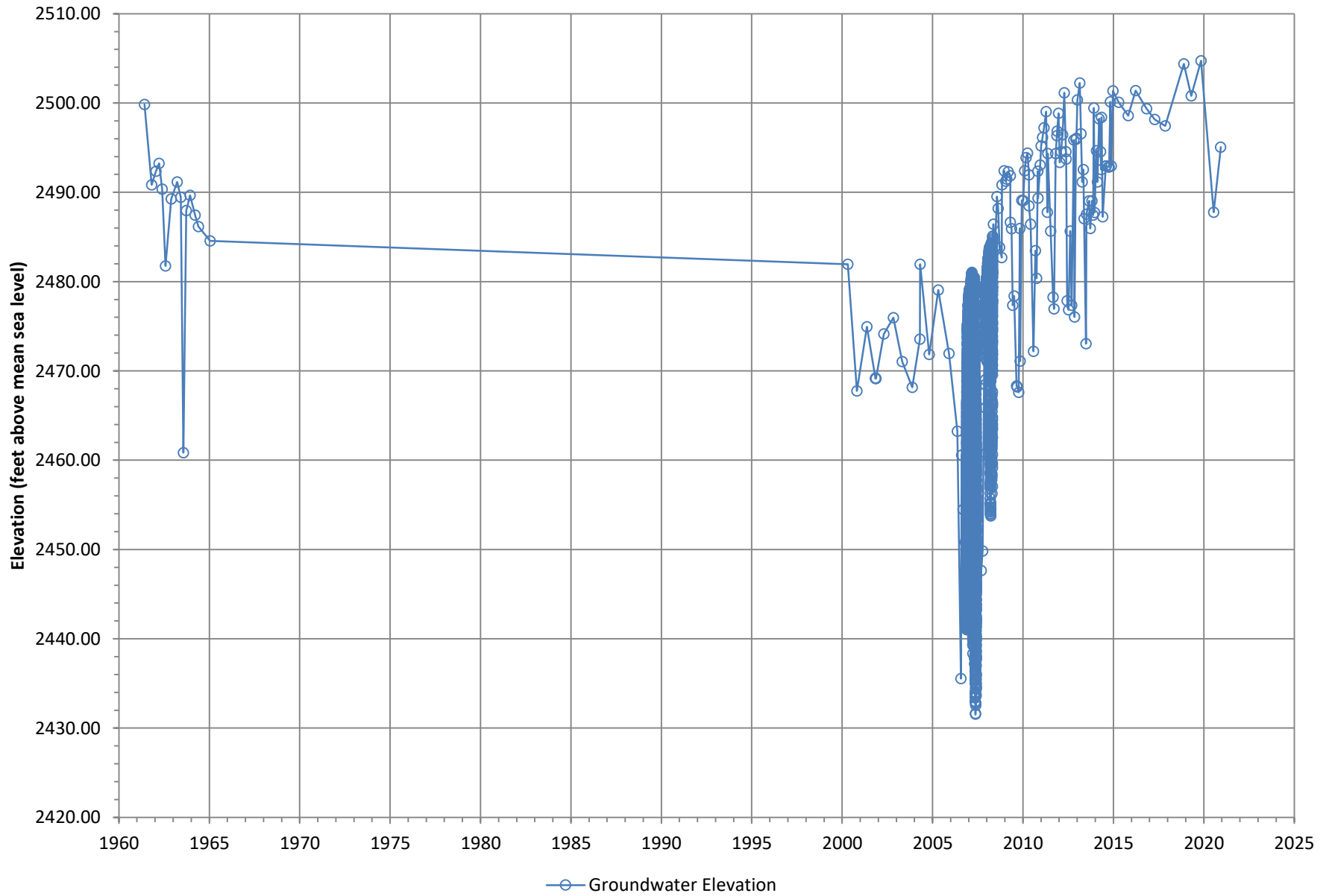
- M-79 Groundwater Elevation Hydrograph at Well SGPWA 335714116565002
- M-80 Groundwater Elevation Hydrograph at Well SGPWA 335714116565003
- M-81 Groundwater Elevation Hydrograph at Well SGPWA TW-1
- M-82 Groundwater Elevation Hydrograph at Well Schuelke Real Estate #493
- M-83 Groundwater Elevation Hydrograph at Well Sharondale Mesa Owners Assoc #1
- M-84 Groundwater Elevation Hydrograph at Well Sharondale Mesa Owners Assoc #2
- M-85 Groundwater Elevation Hydrograph at Well SMWC-01
- M-86 Groundwater Elevation Hydrograph at Well SMWC-03
- M-87 Groundwater Elevation Hydrograph at Well SMWC-04
- M-88 Groundwater Elevation Hydrograph at Well SMWC-05
- M-89 Groundwater Elevation Hydrograph at Well Sunny Cal Egg Ranch 37101 Cherry
- M-90 Groundwater Elevation Hydrograph at Well Sunny Cal Egg Ranch #1
- M-91 Groundwater Elevation Hydrograph at Well Sunny Cal Egg Ranch #2
- M-92 Groundwater Elevation Hydrograph at Well Moreno 6
- M-93 Groundwater Elevation Hydrograph at USGS Well 335543116564801
- M-94 Groundwater Elevation Hydrograph at USGS Well 335834116582101
- M-95 Groundwater Elevation Hydrograph at USGS Well 335834116582102
- M-96 Groundwater Elevation Hydrograph at USGS Well 335838116582504
- M-97 Groundwater Elevation Hydrograph at USGS Well 335902116580901
- M-98 Groundwater Elevation Hydrograph at USGS Well 335902116580902
- M-99 Groundwater Elevation Hydrograph at Well Unknown 1208640
- M-100 Groundwater Elevation Hydrograph at Well Unknown 1221611
- M-101 Groundwater Elevation Hydrograph at Well Witter, George
- M-102 Groundwater Elevation Hydrograph at Well YVWD-34
- M-103 Groundwater Elevation Hydrograph at Well YVWD-48



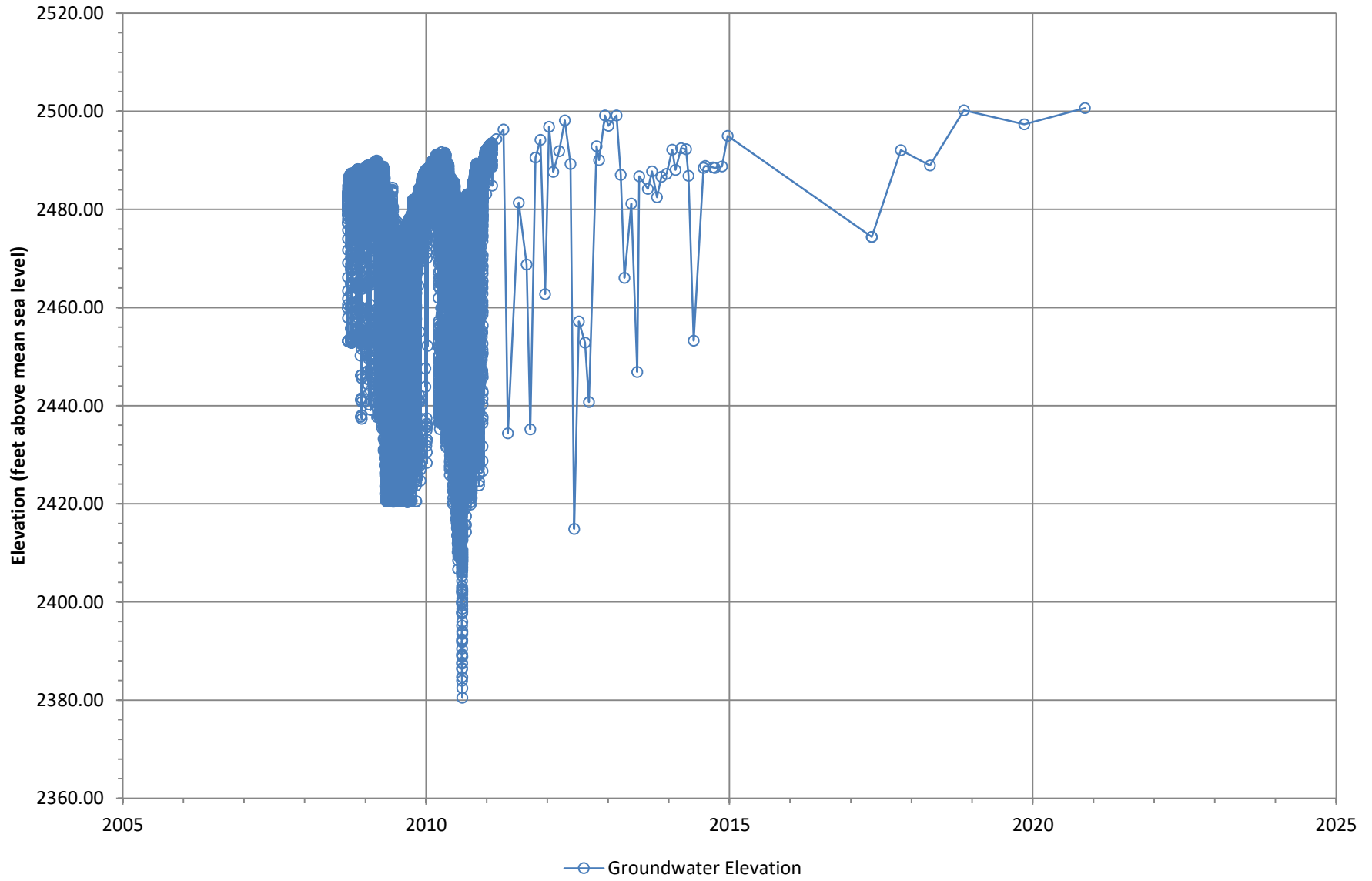


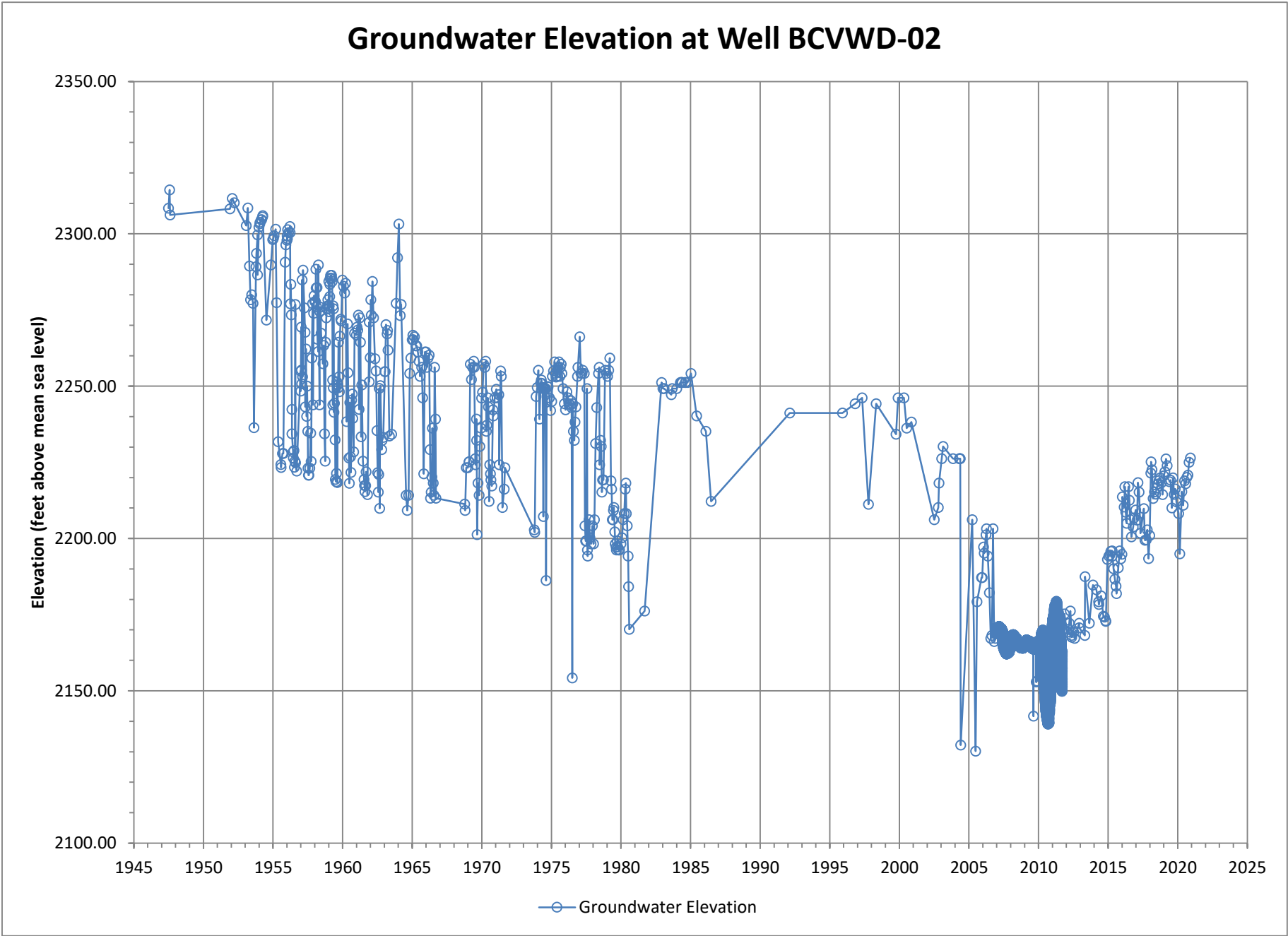


Groundwater Elevation at Beaumont Cemetery Well 1

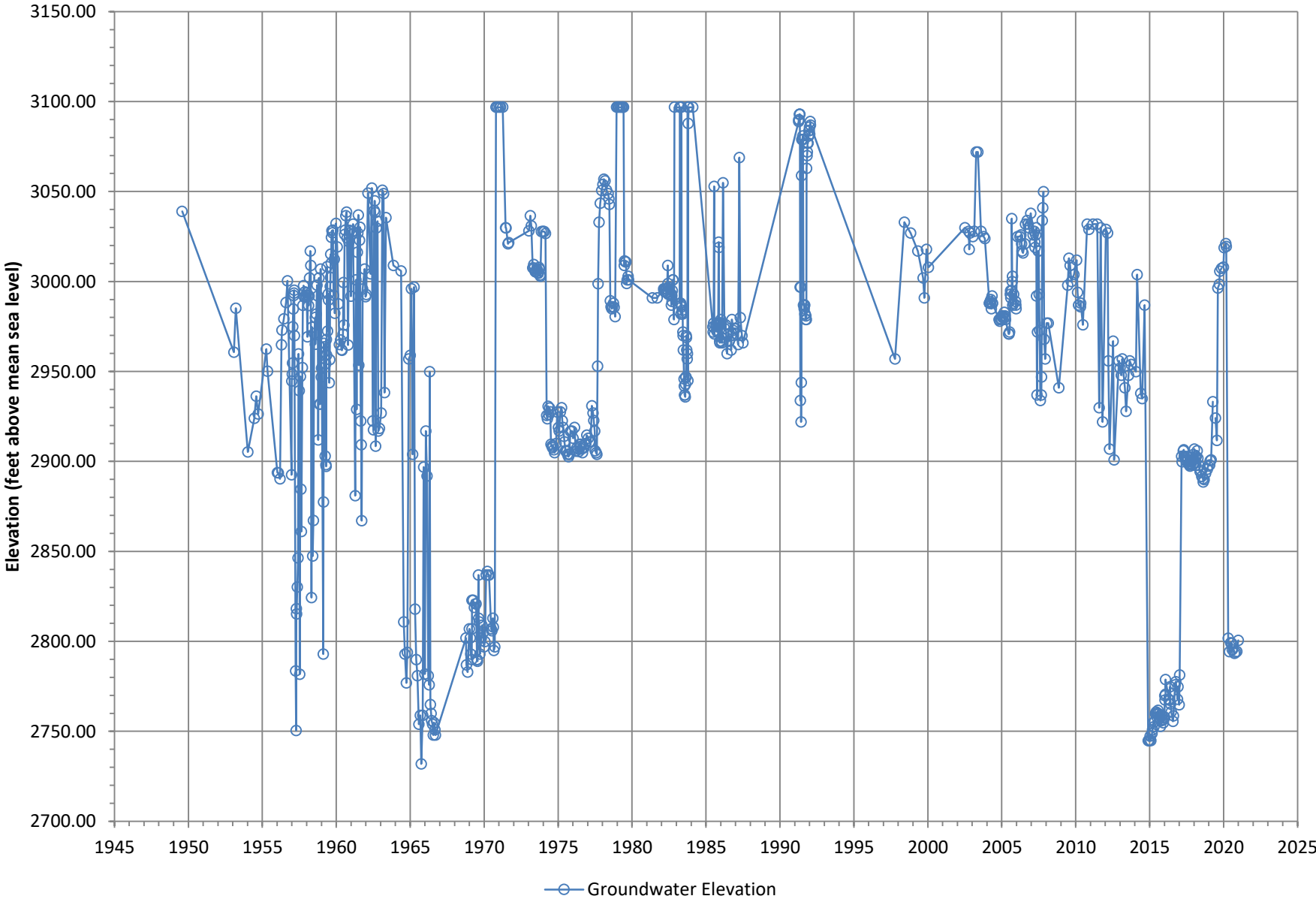


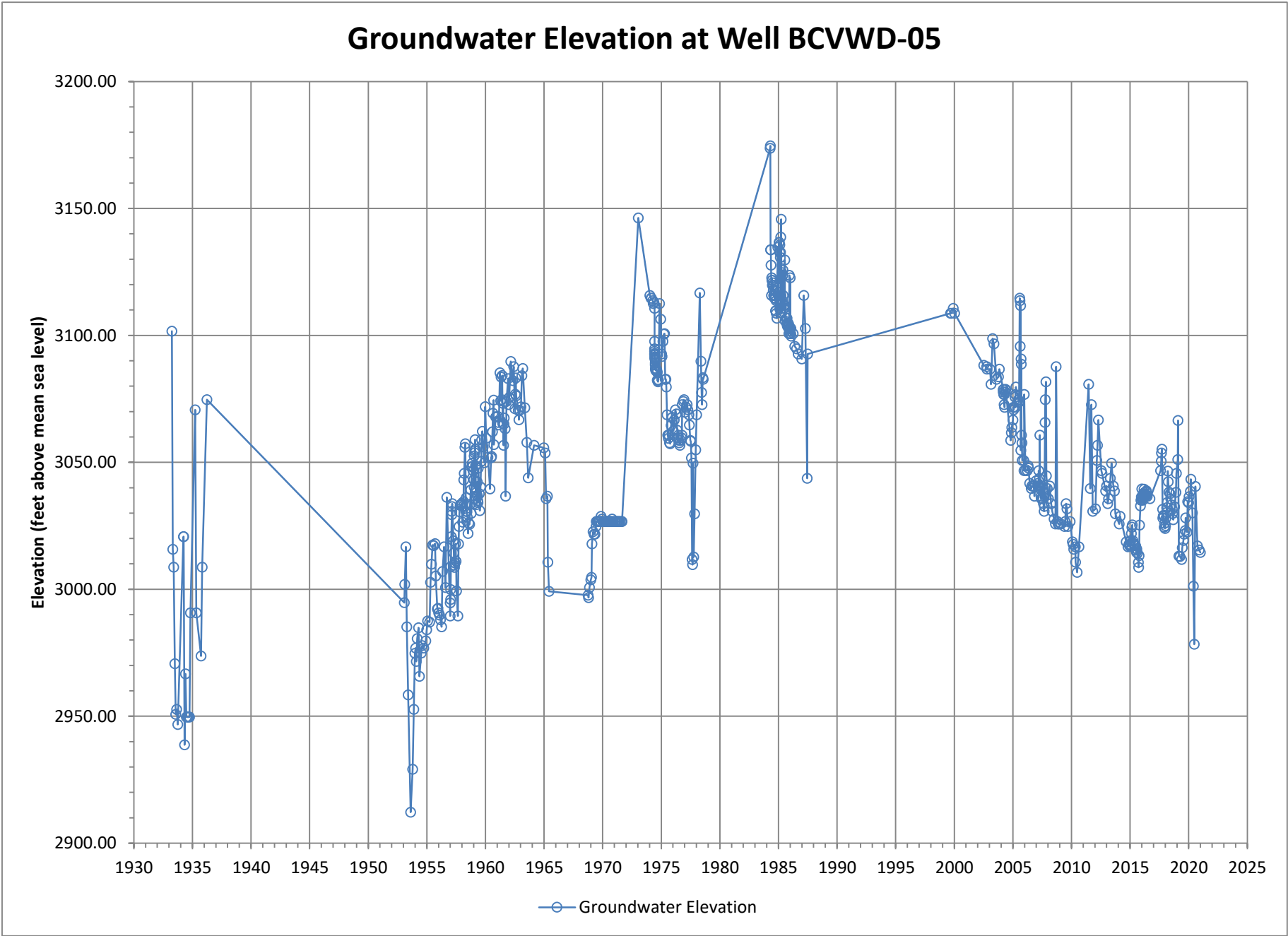
Groundwater Elevation at Sunny Slope Cemetery Well (Formally Beaumont Cemetery Well 2)

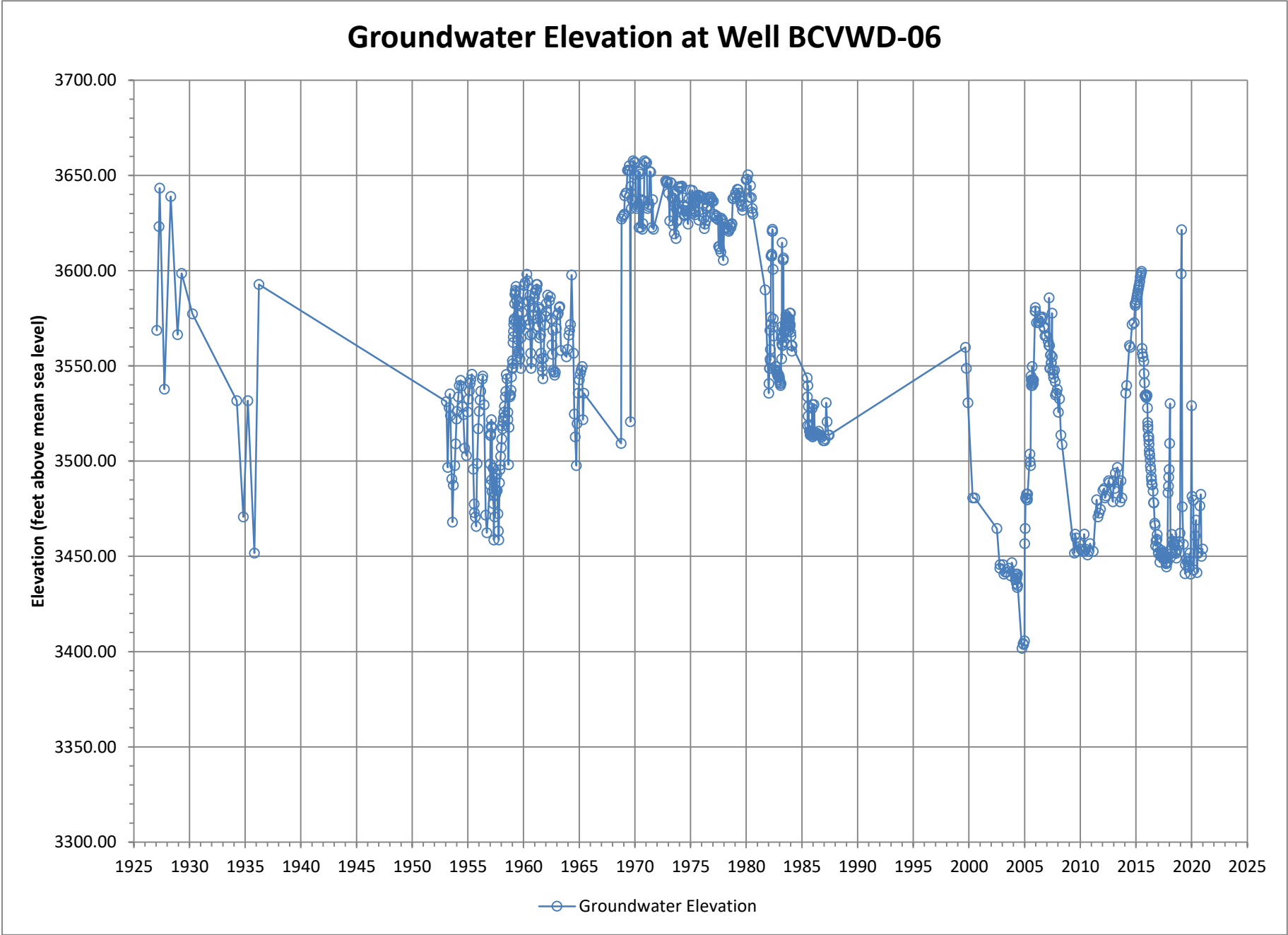


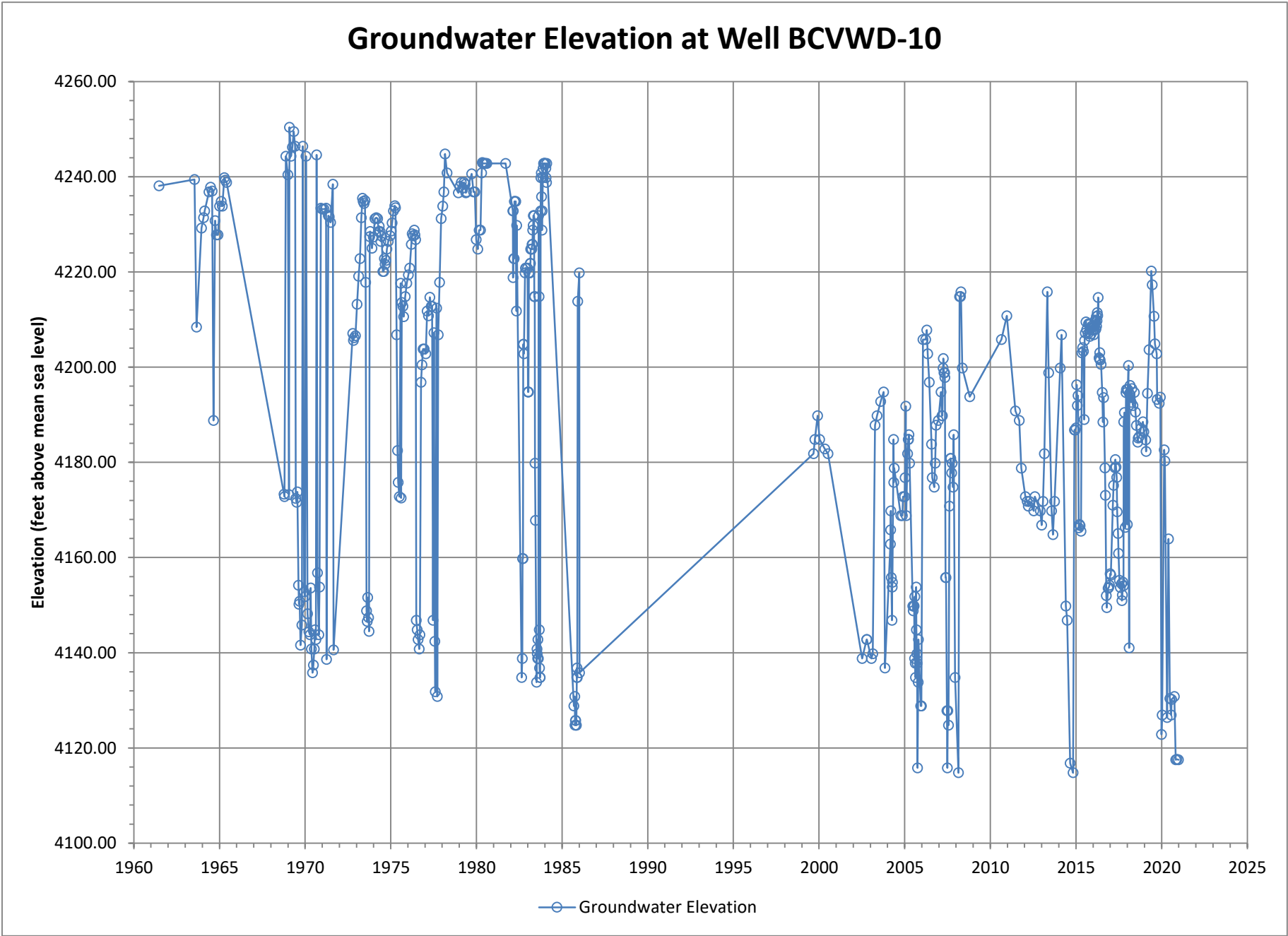


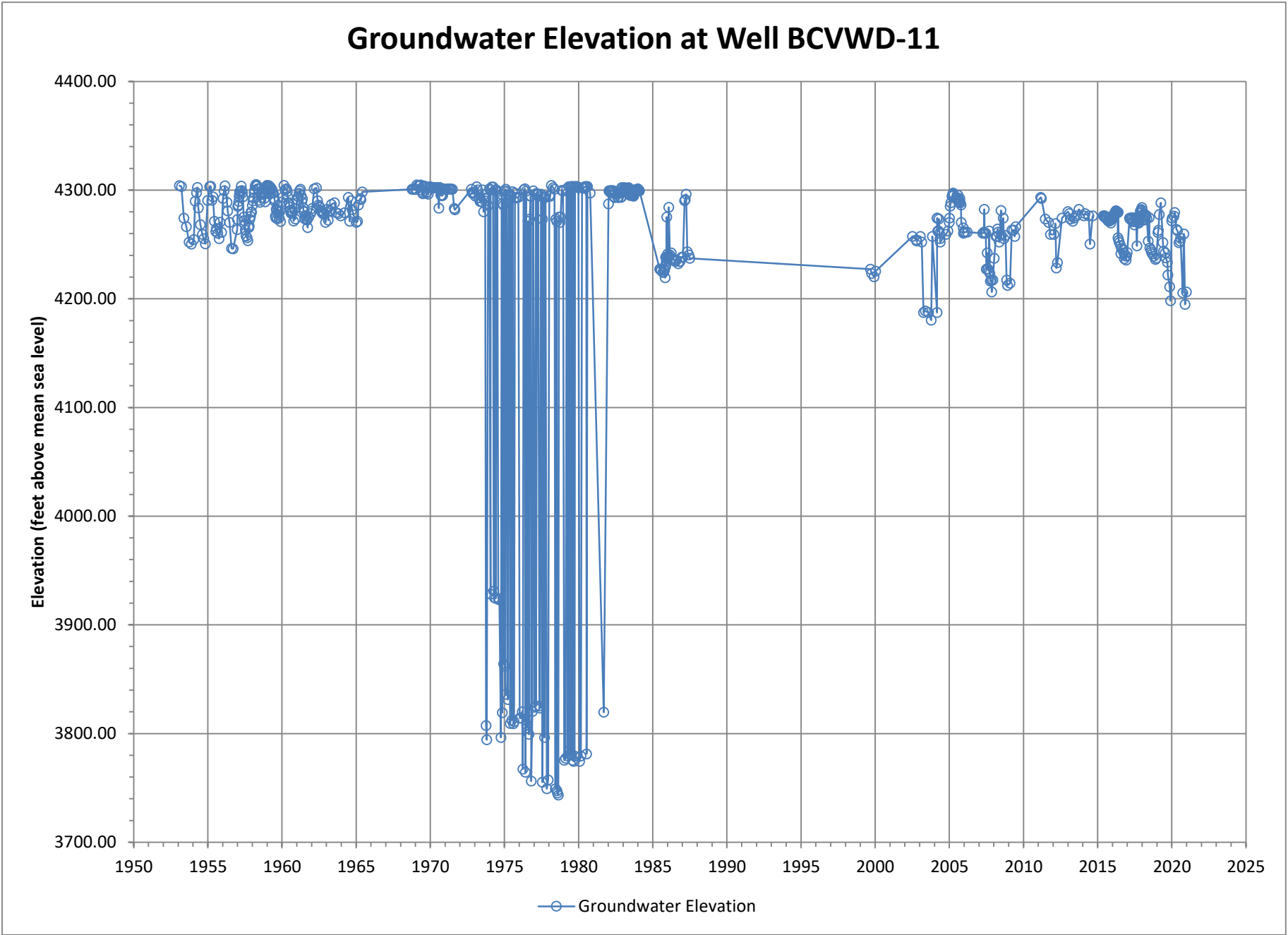
Groundwater Elevation at Well BCVWD-04A



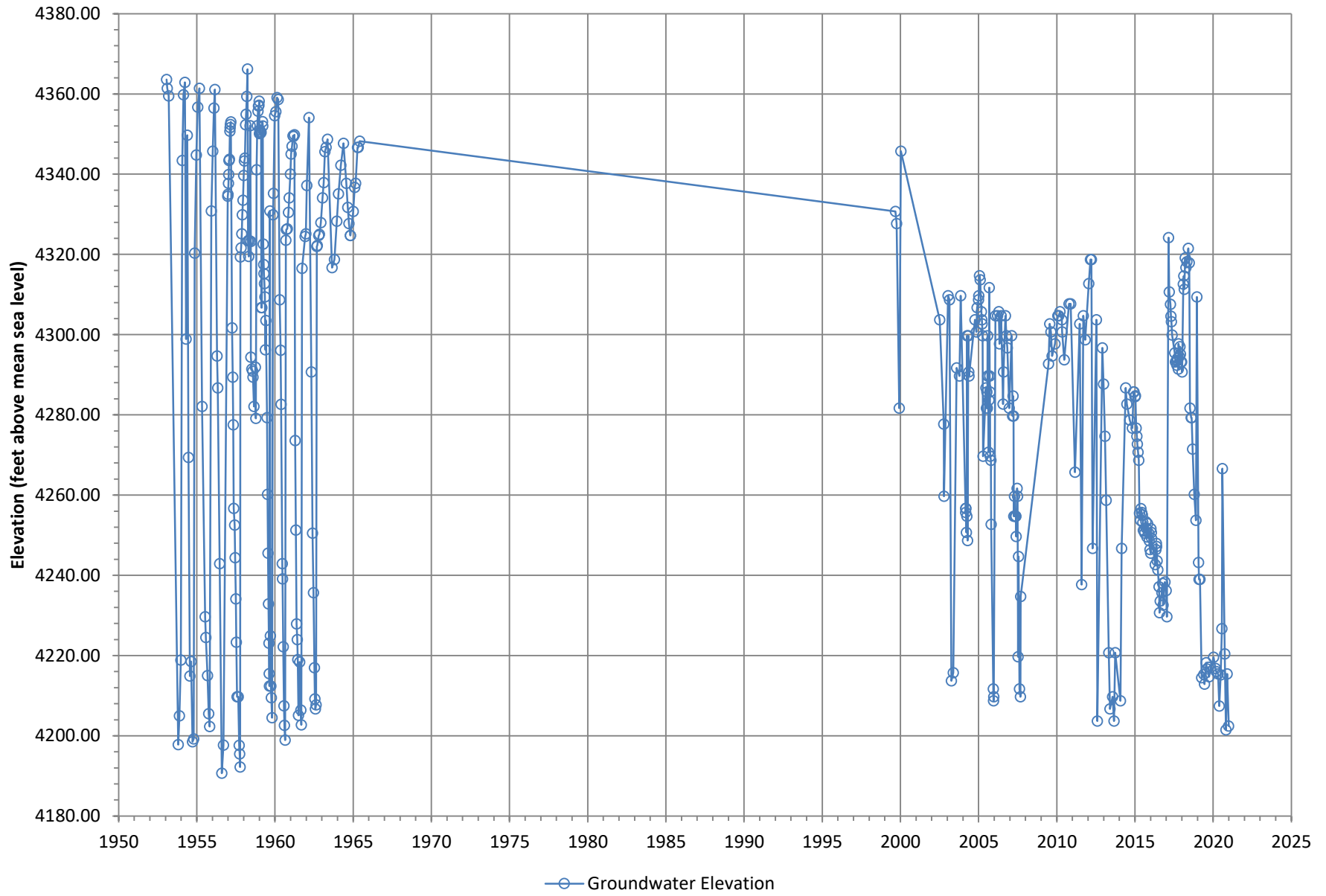


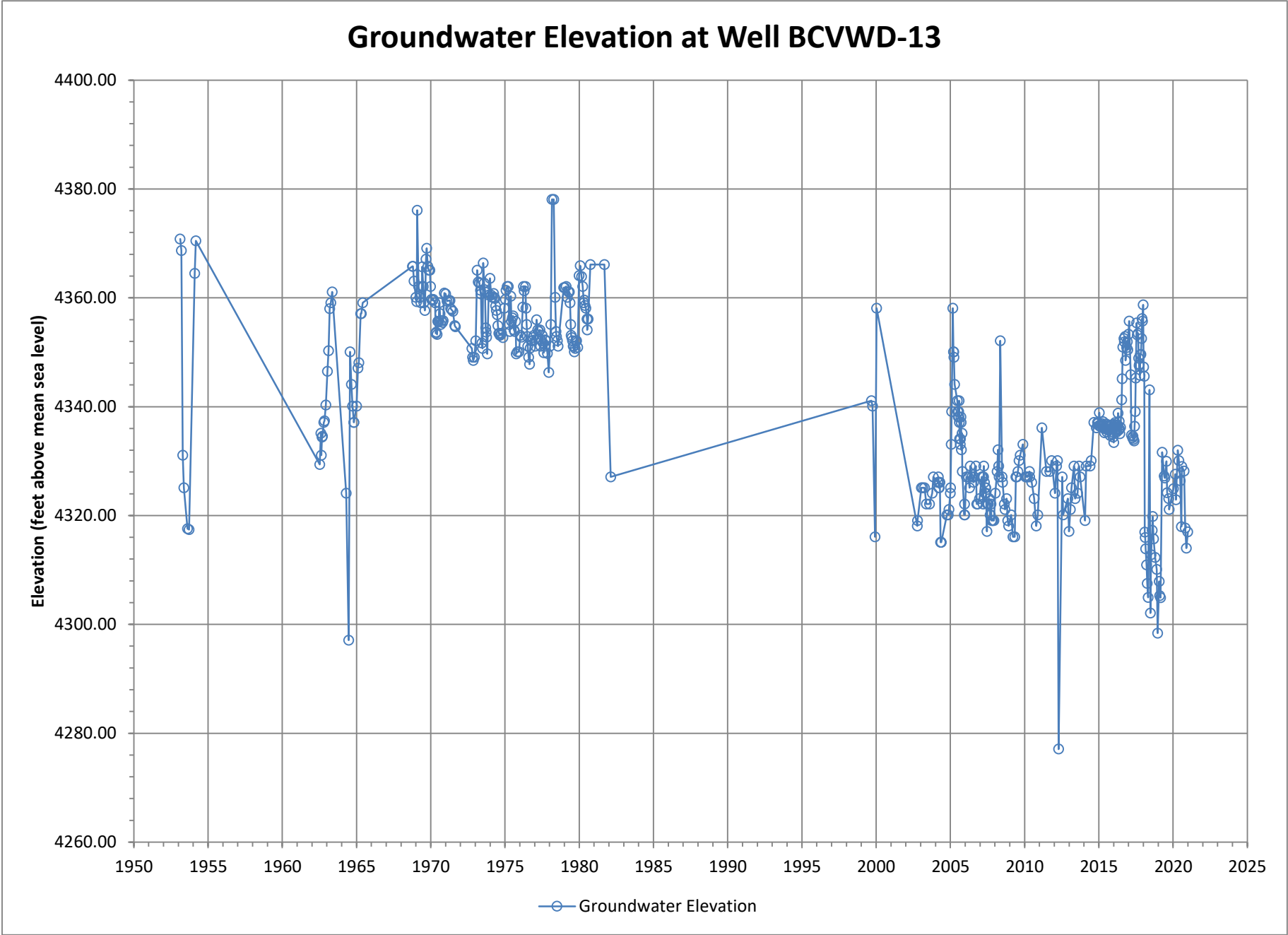


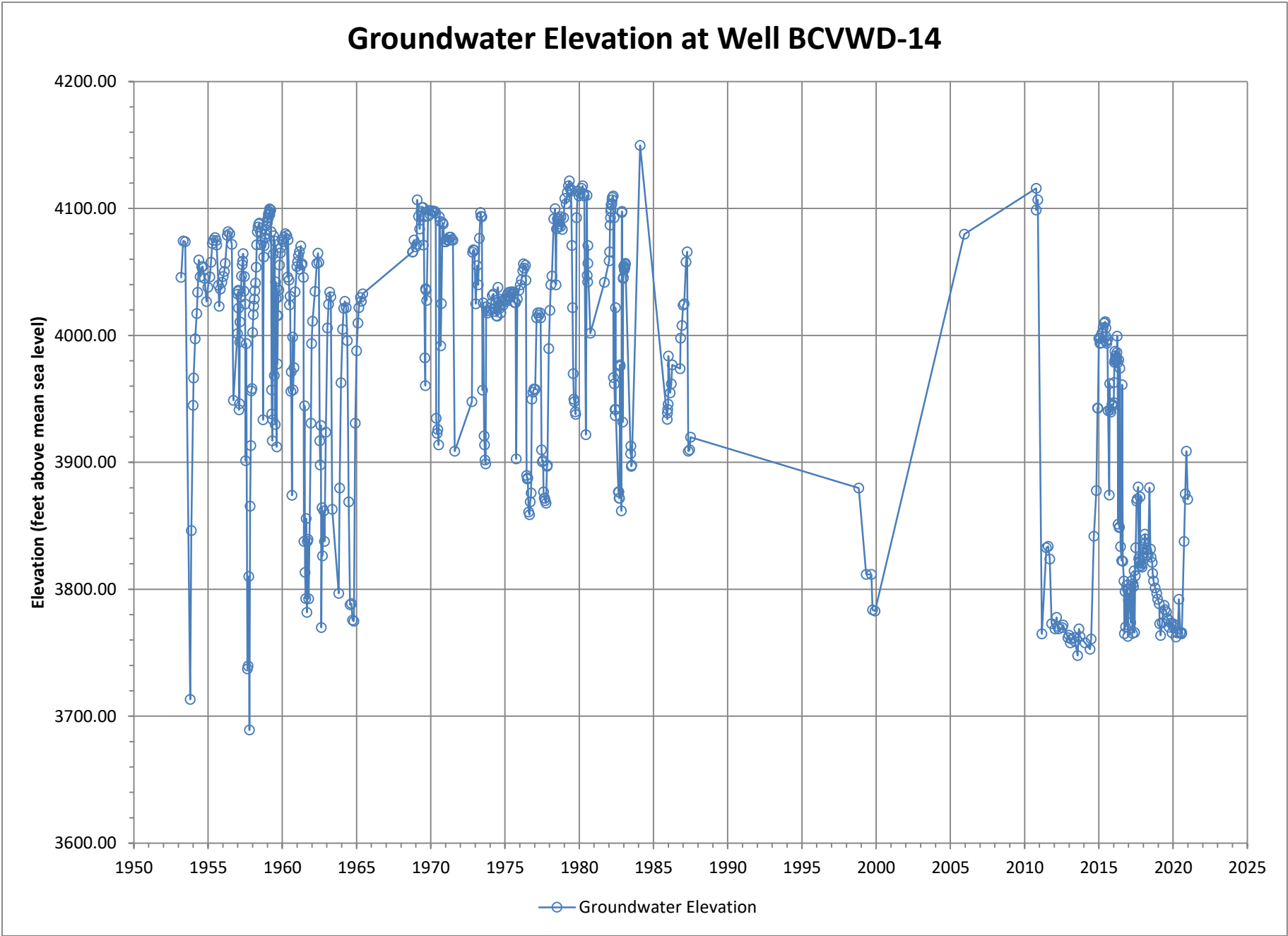


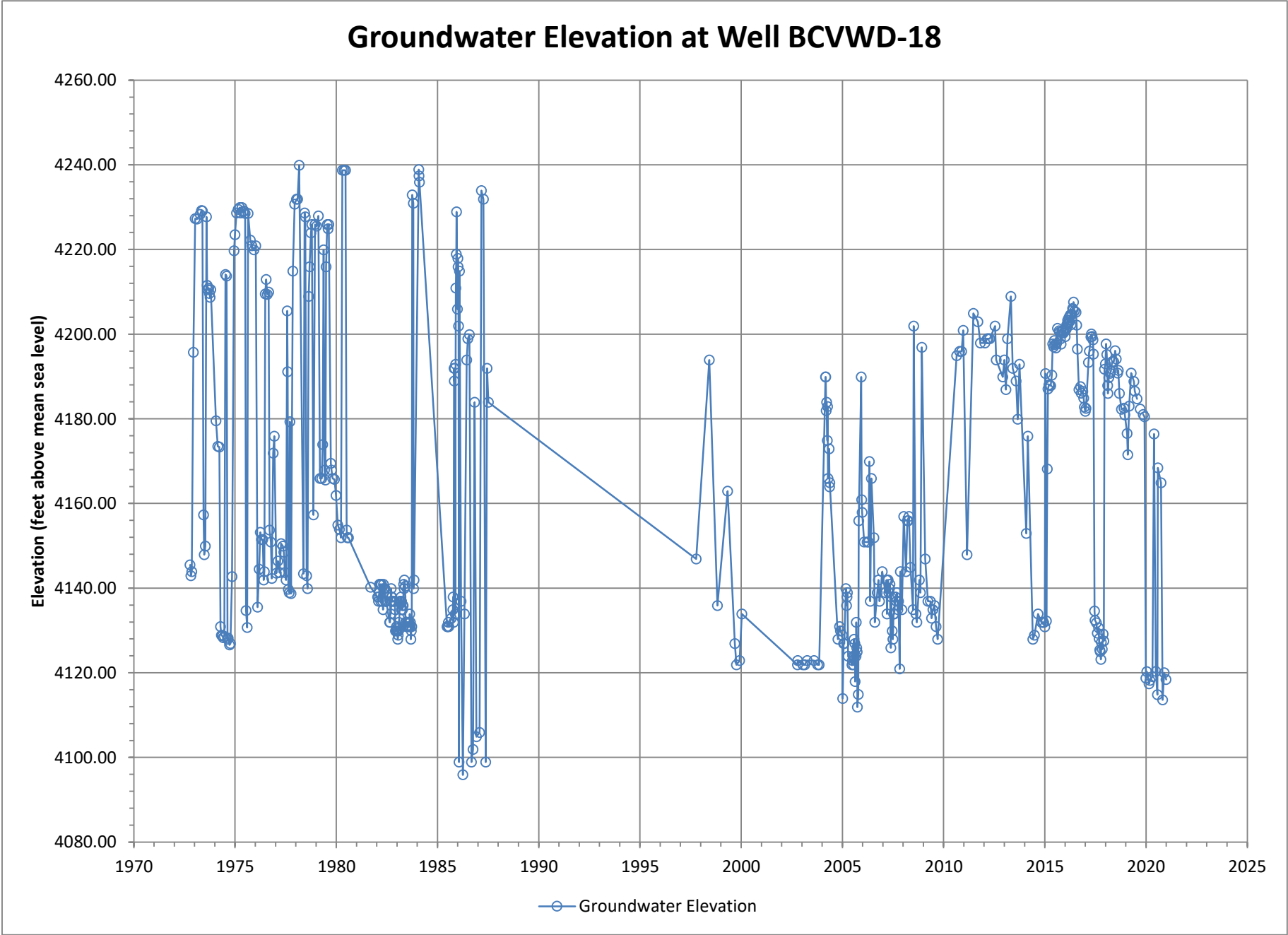


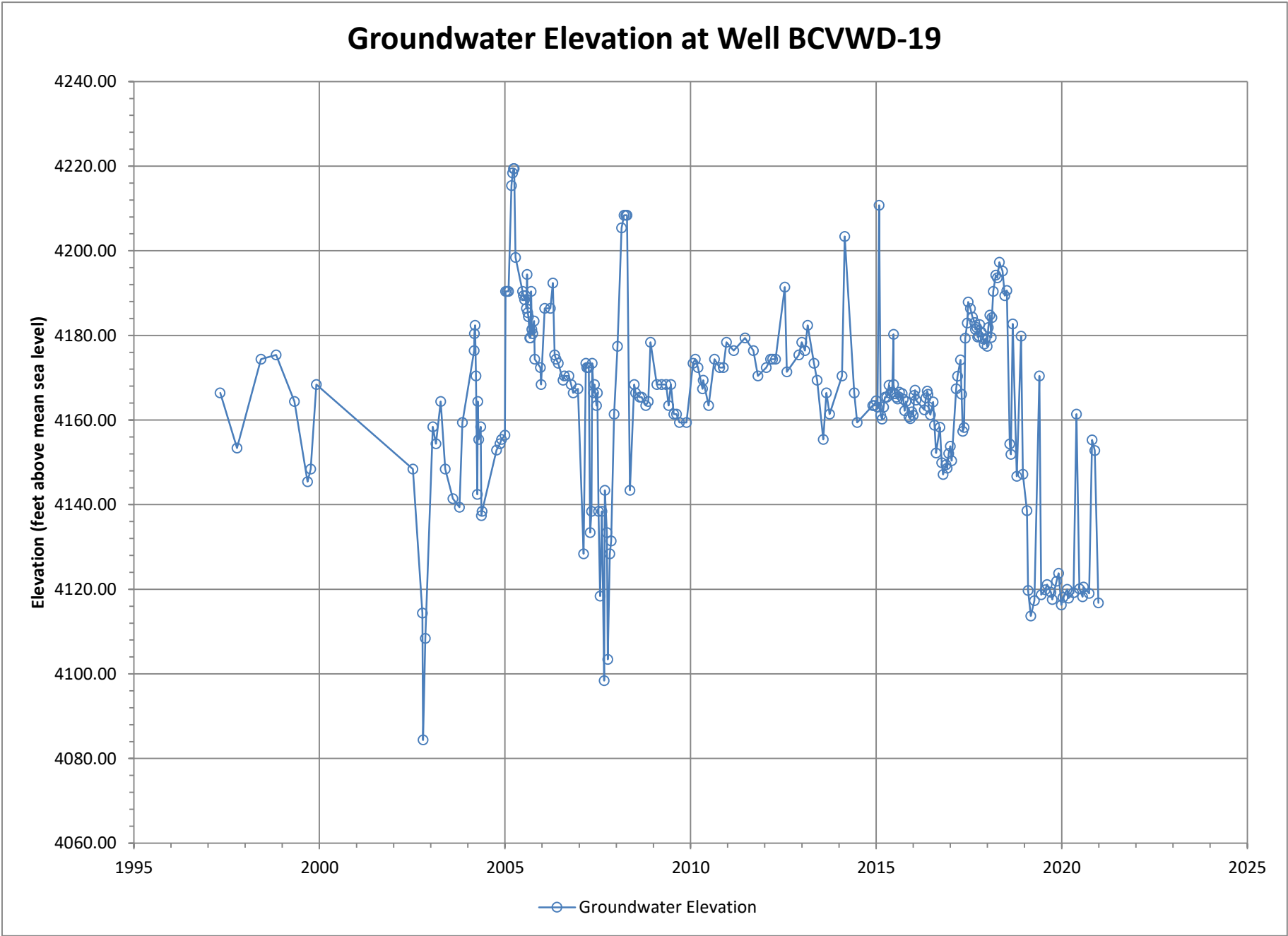
Groundwater Elevation at Well BCVWD-12

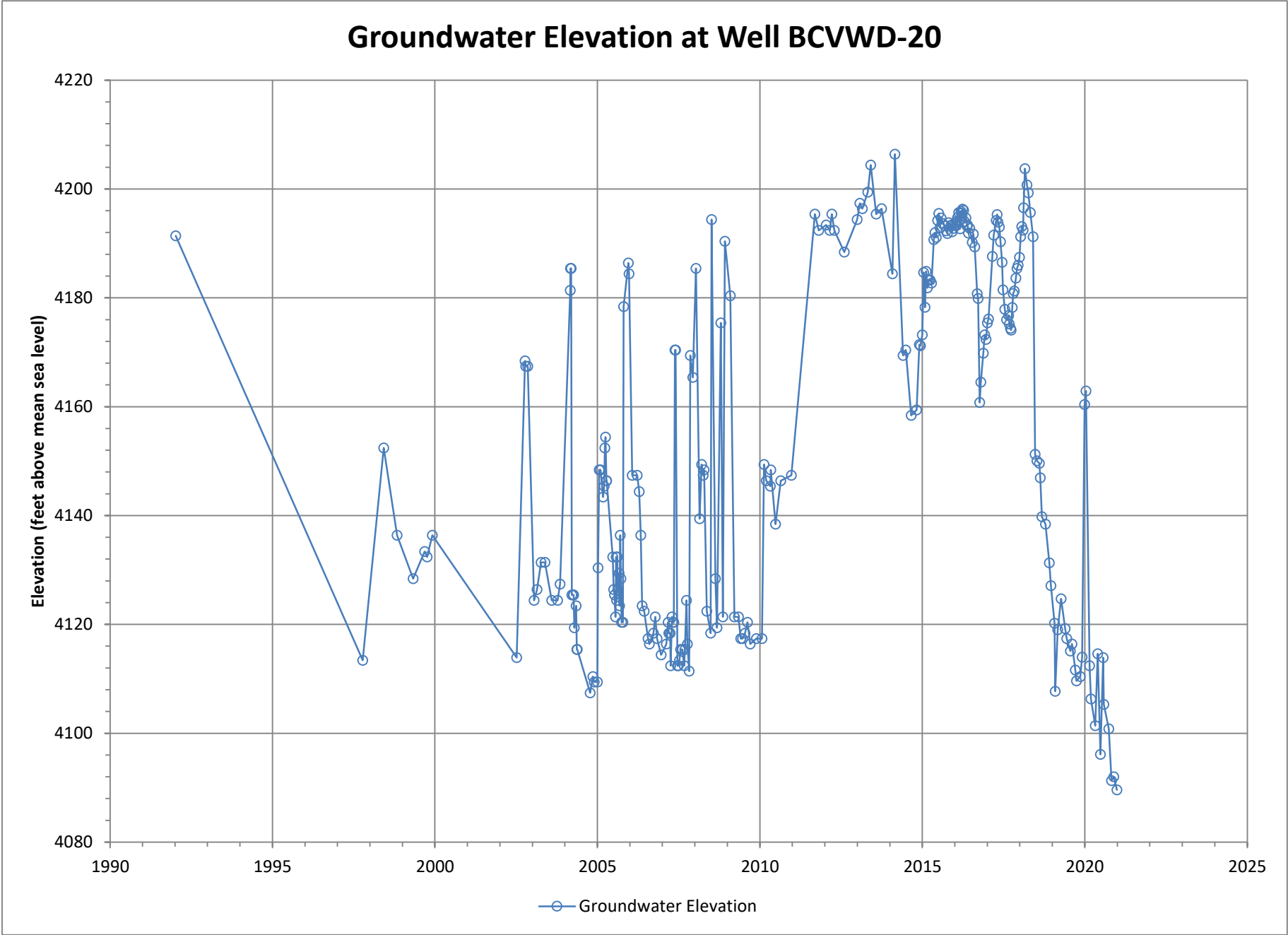


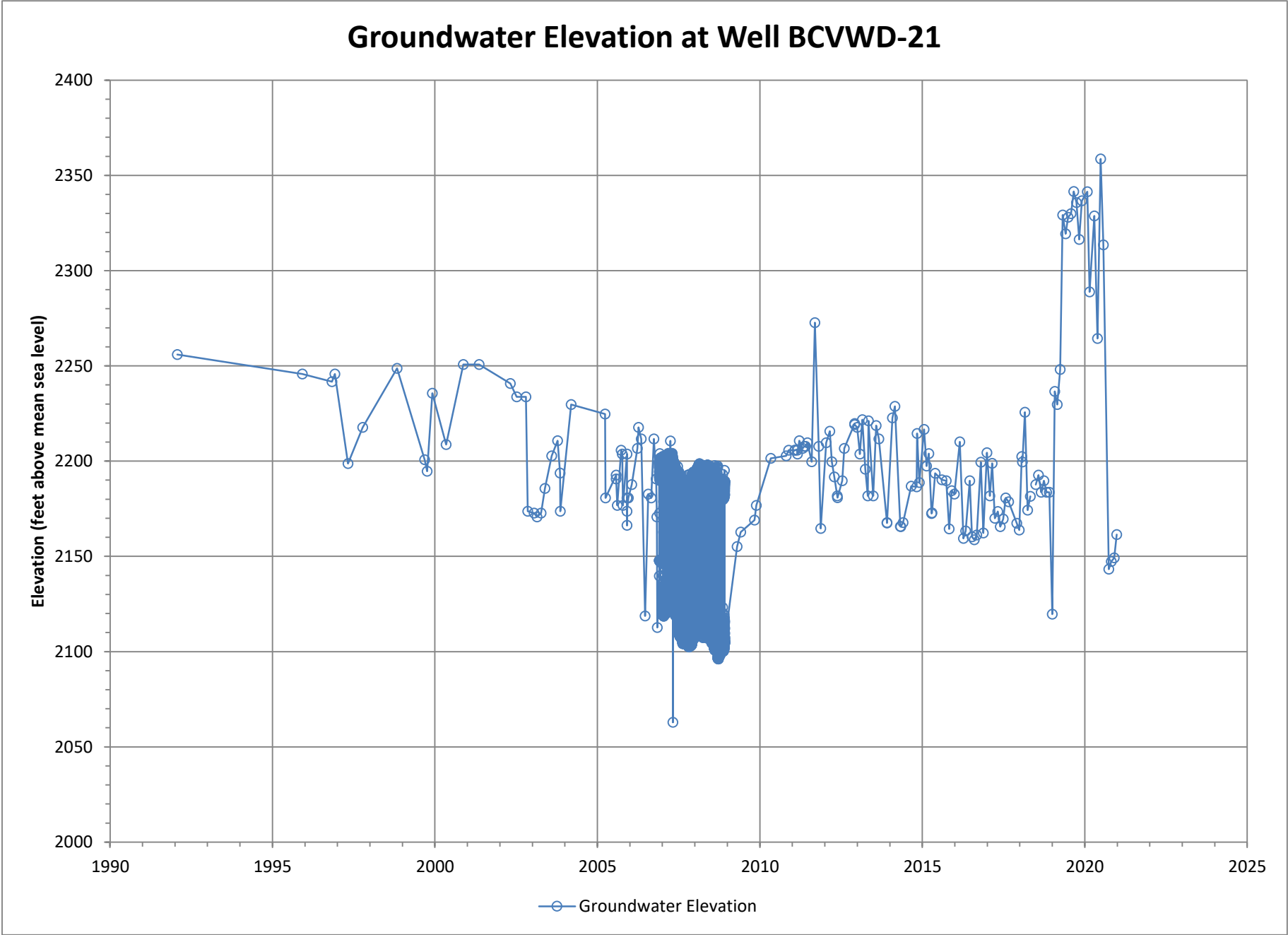


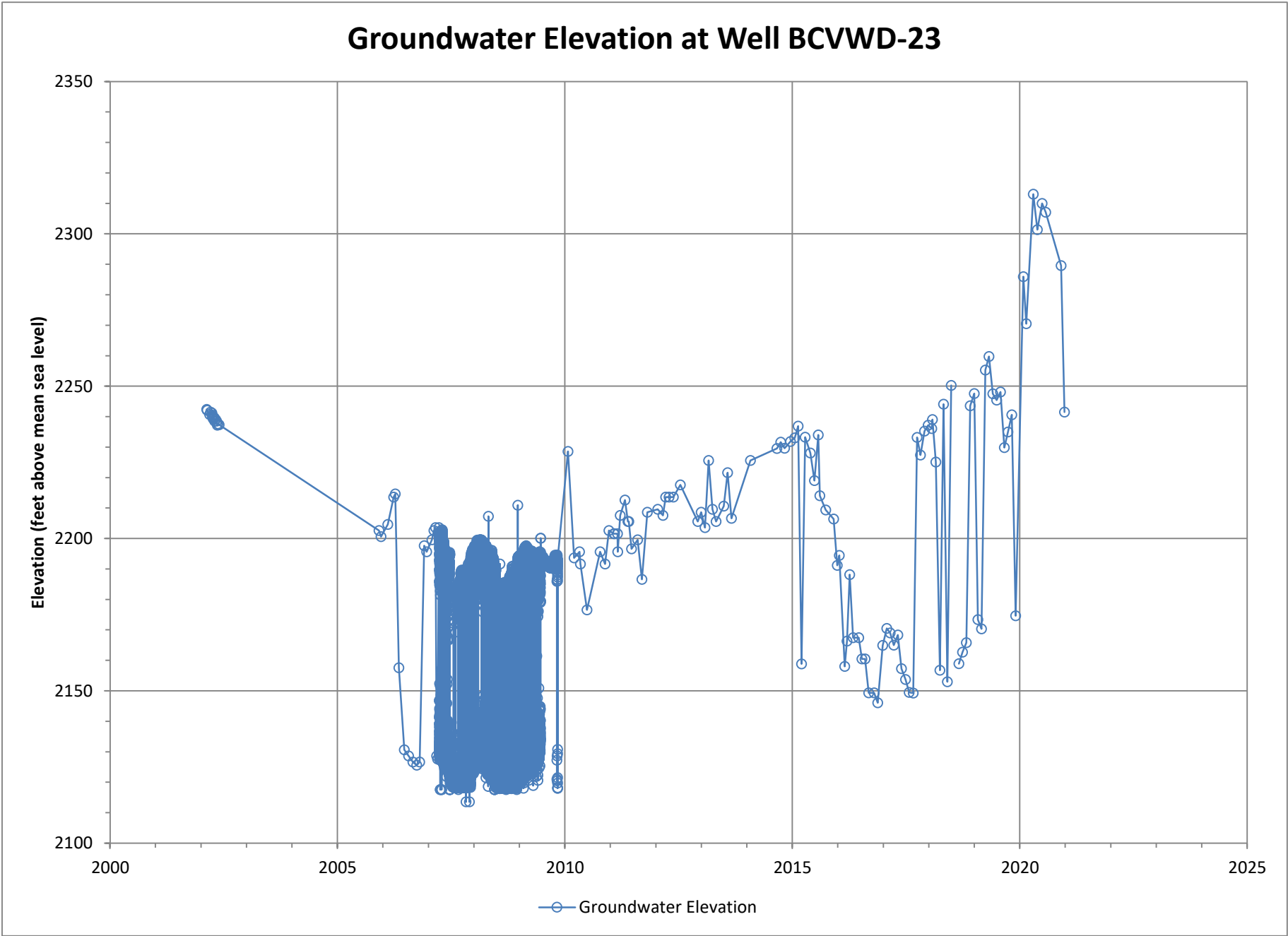


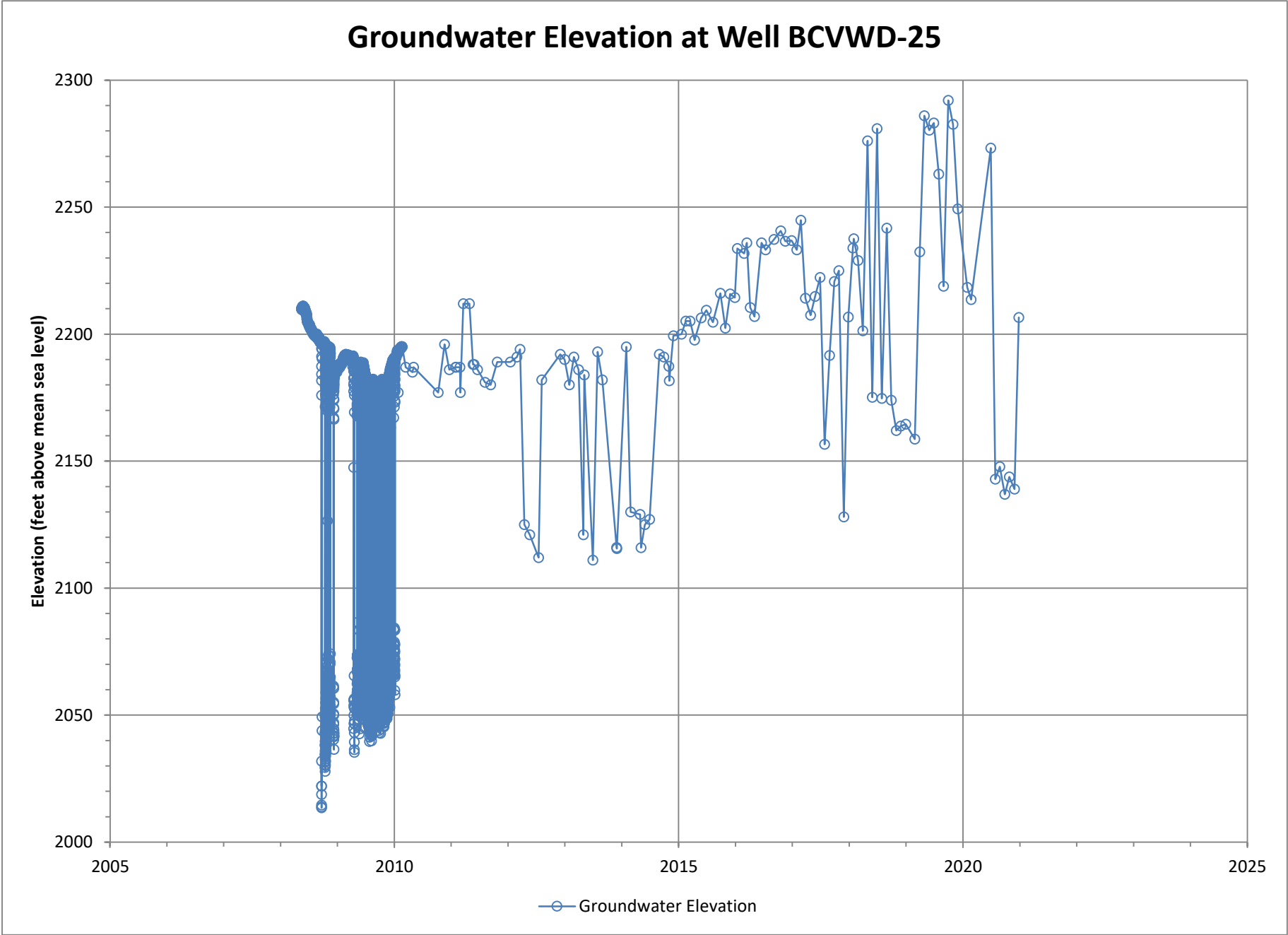


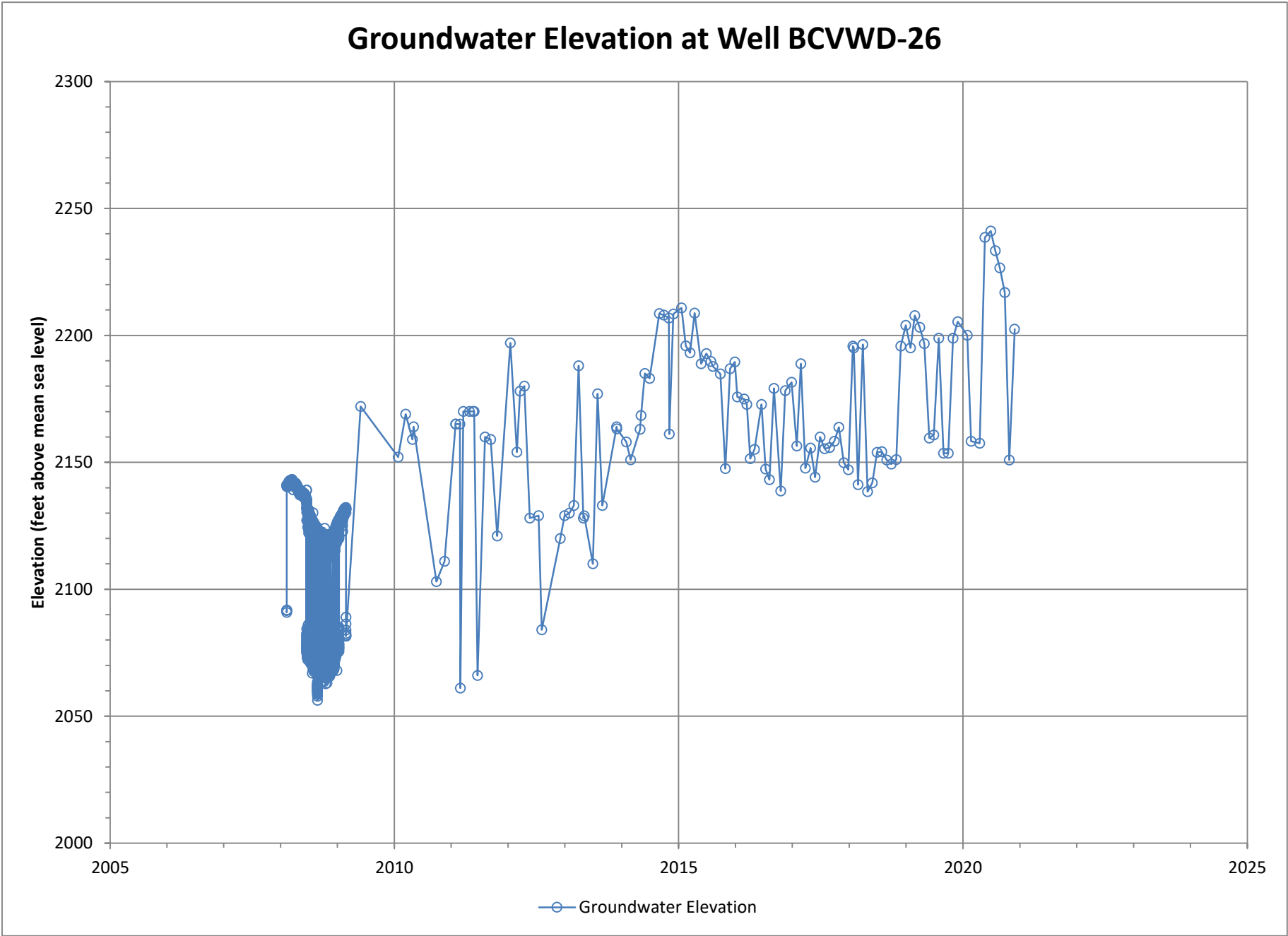


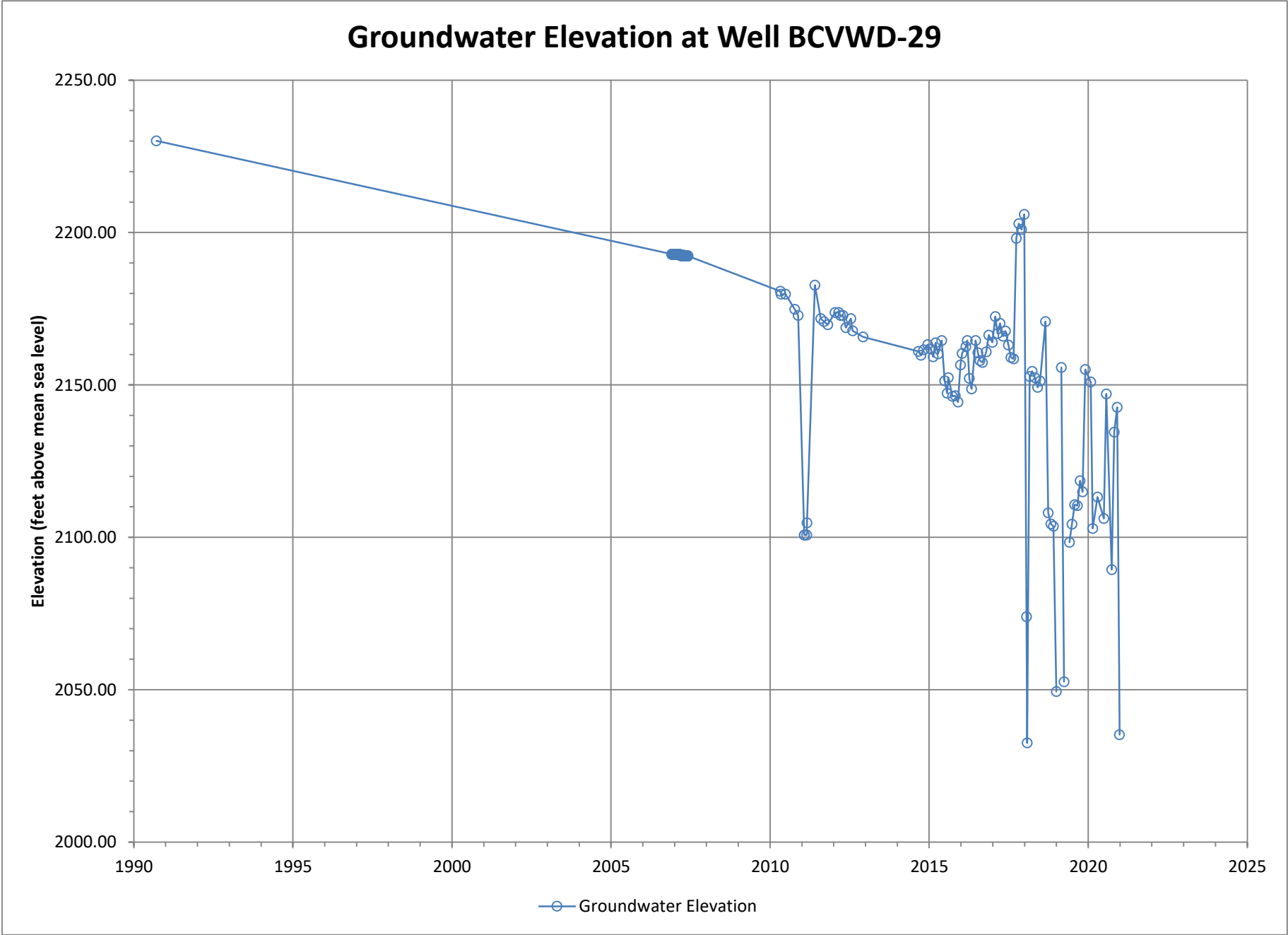




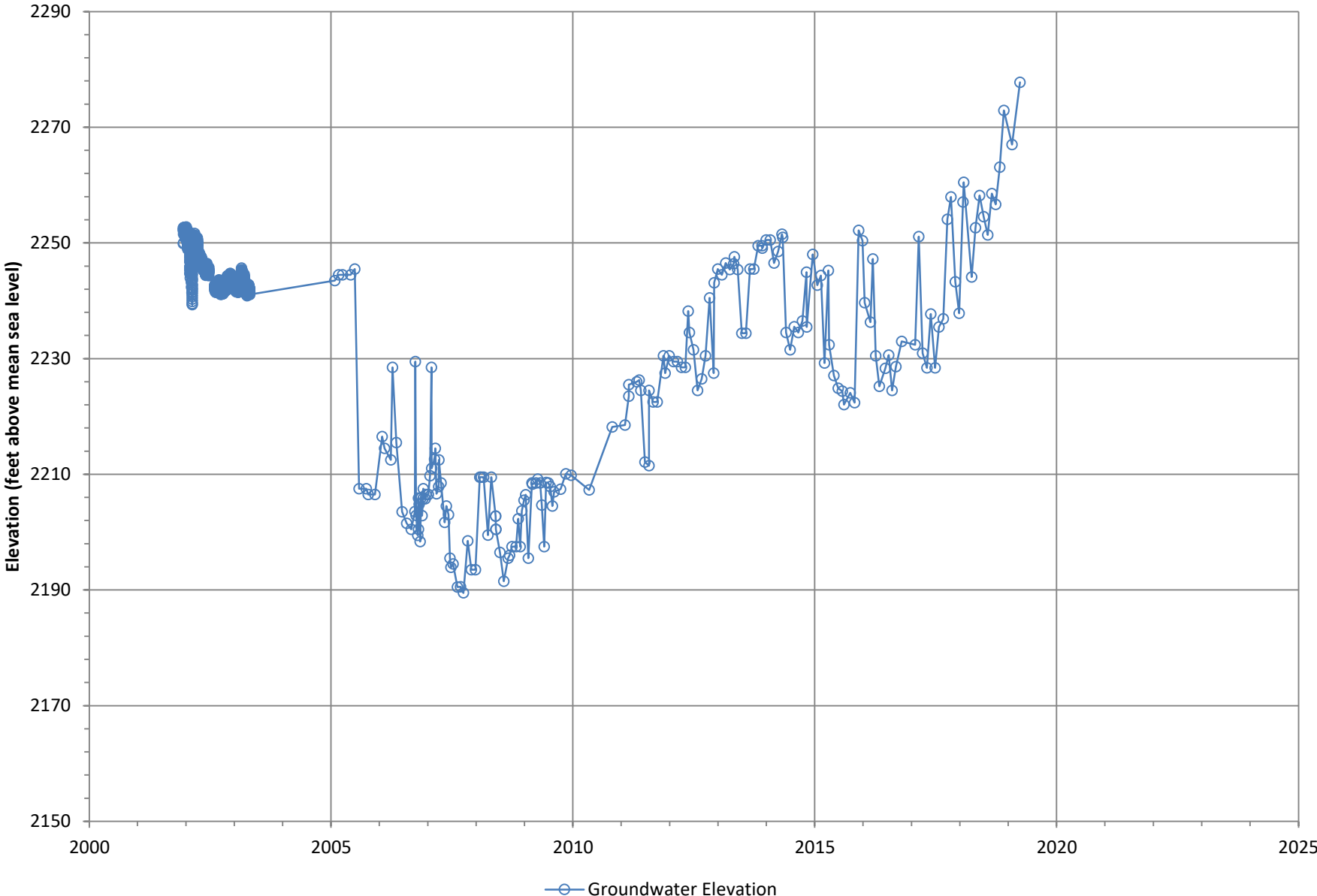


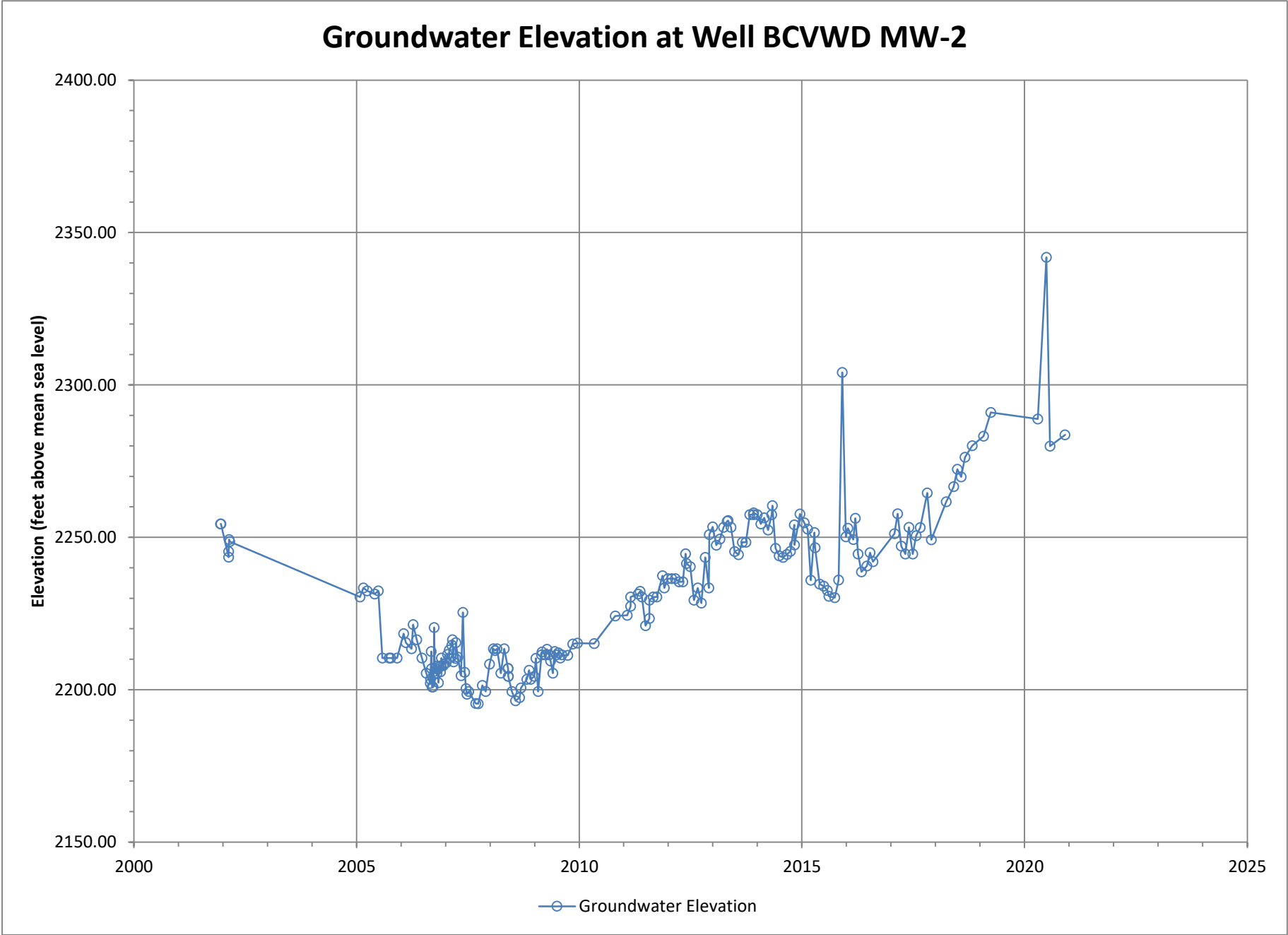




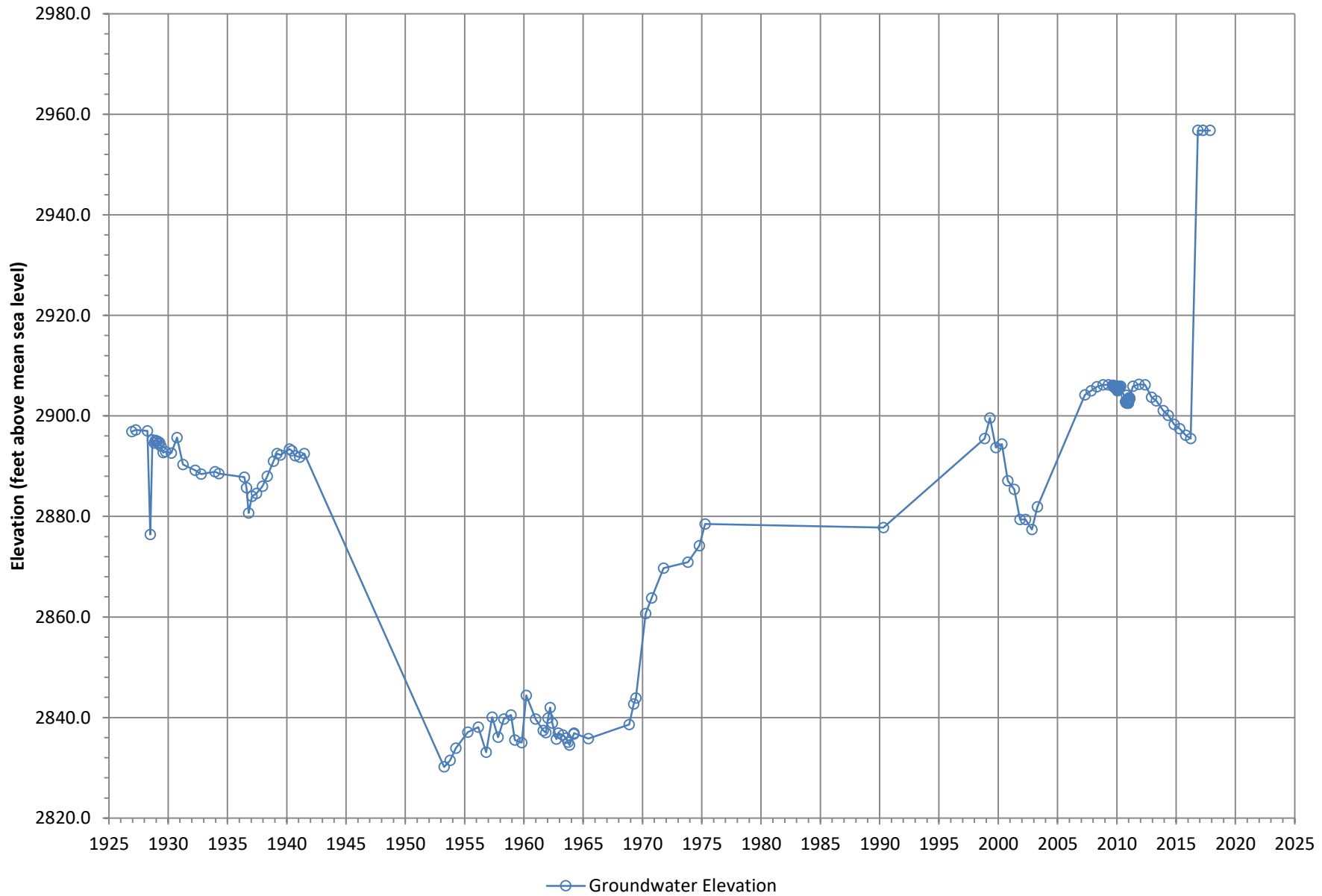


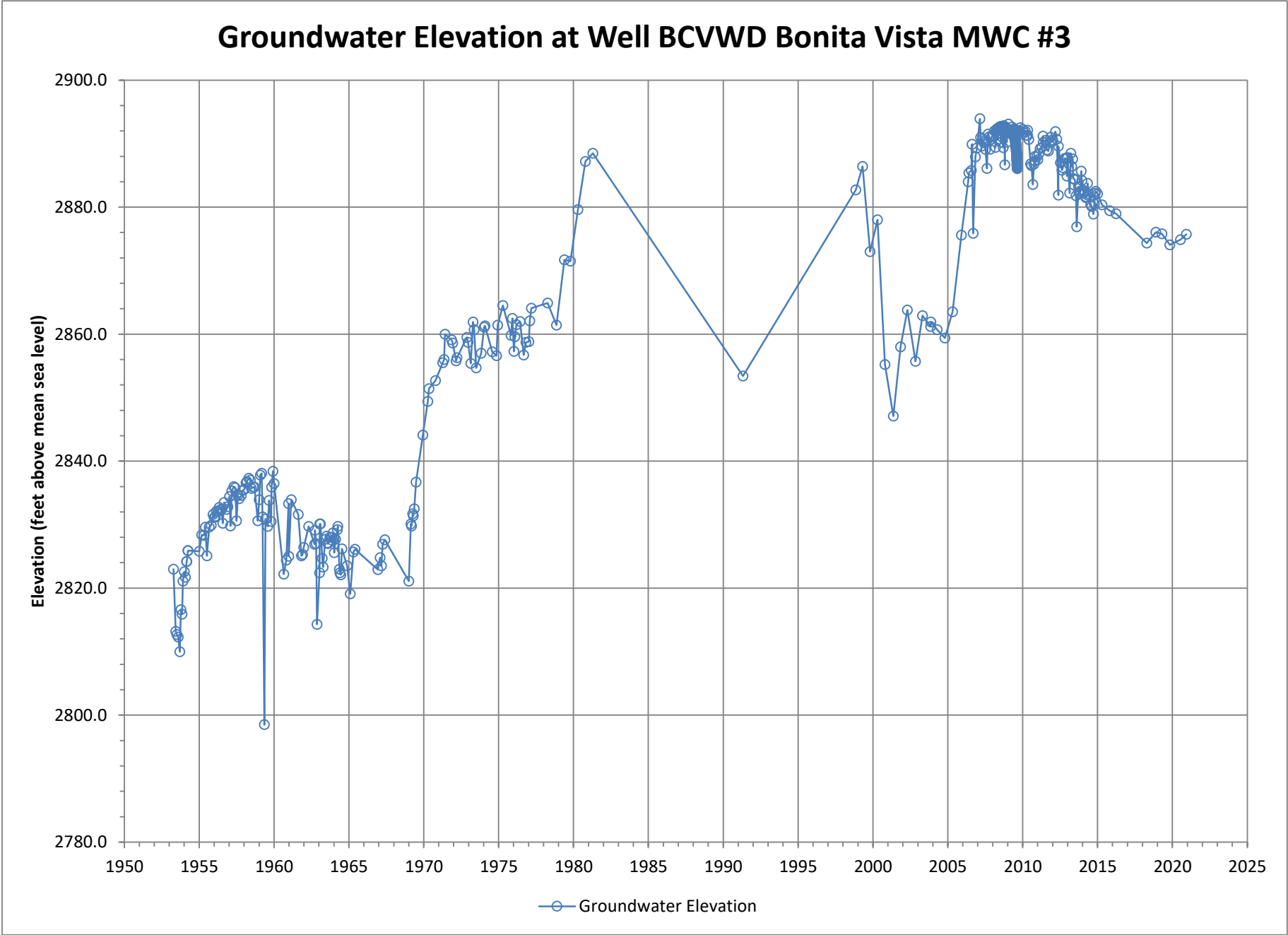
Groundwater Elevation at Well BCVWD MW-1

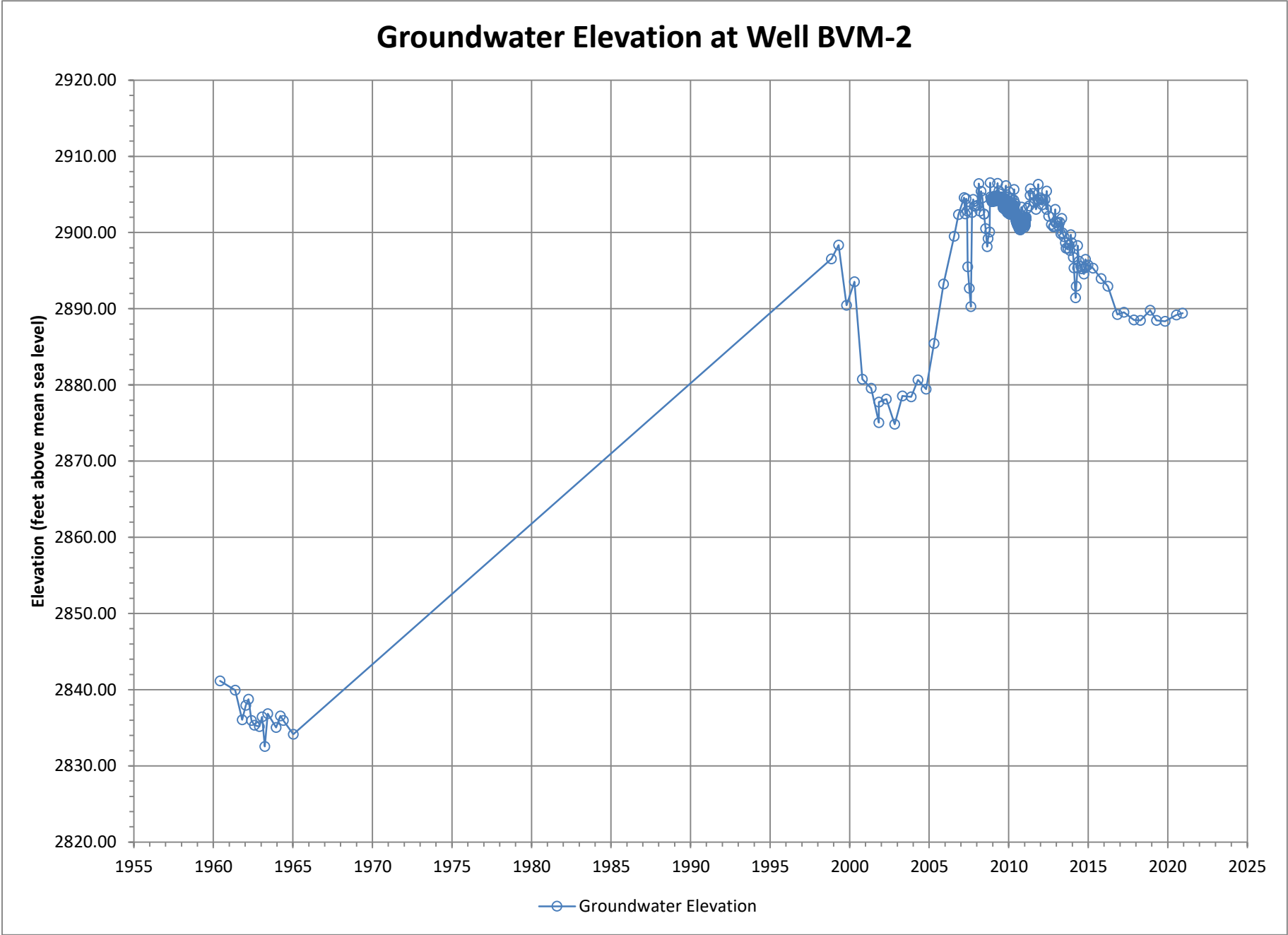


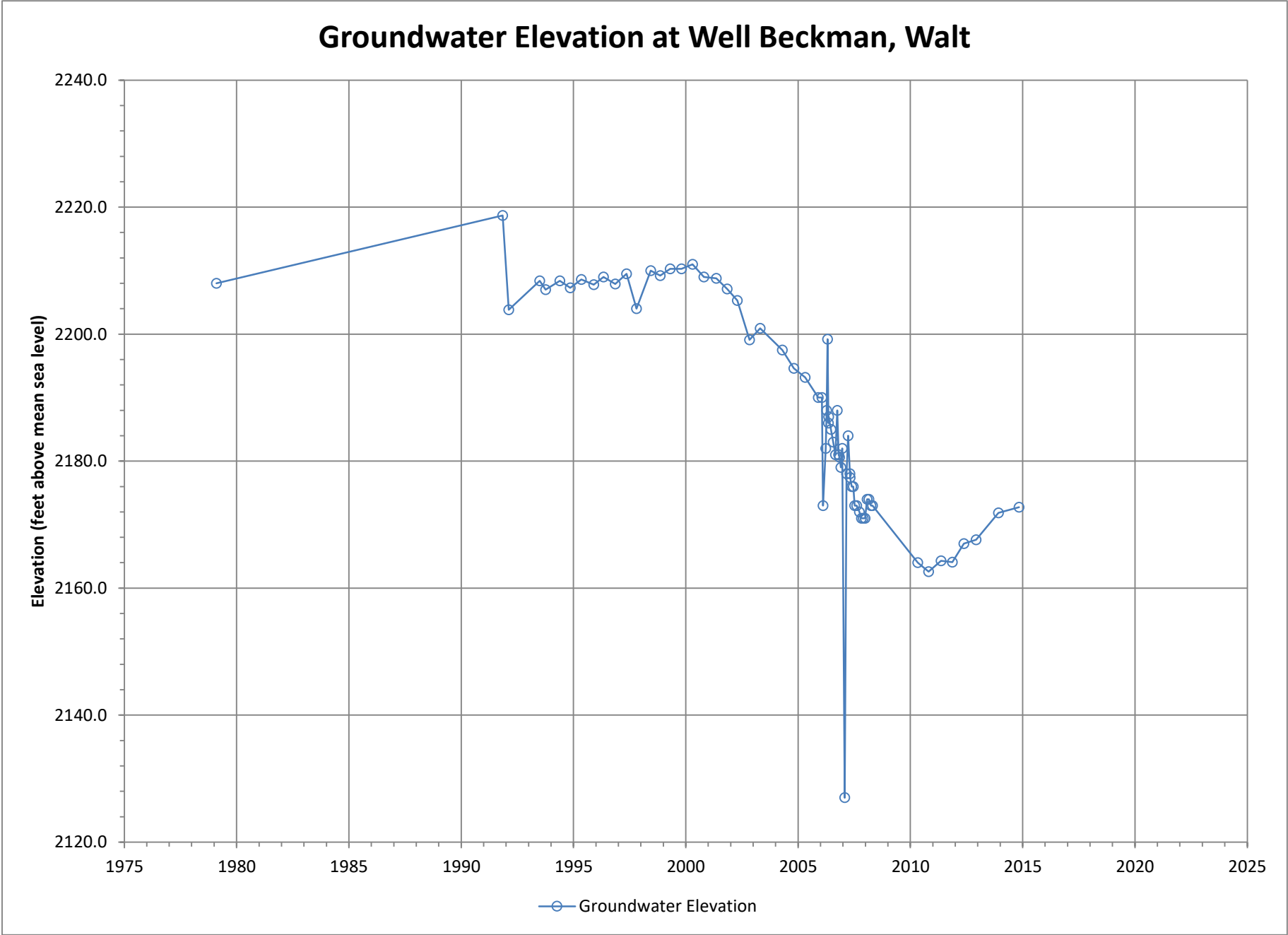


Groundwater Elevation at Well BCVWD Bonita Vista #1

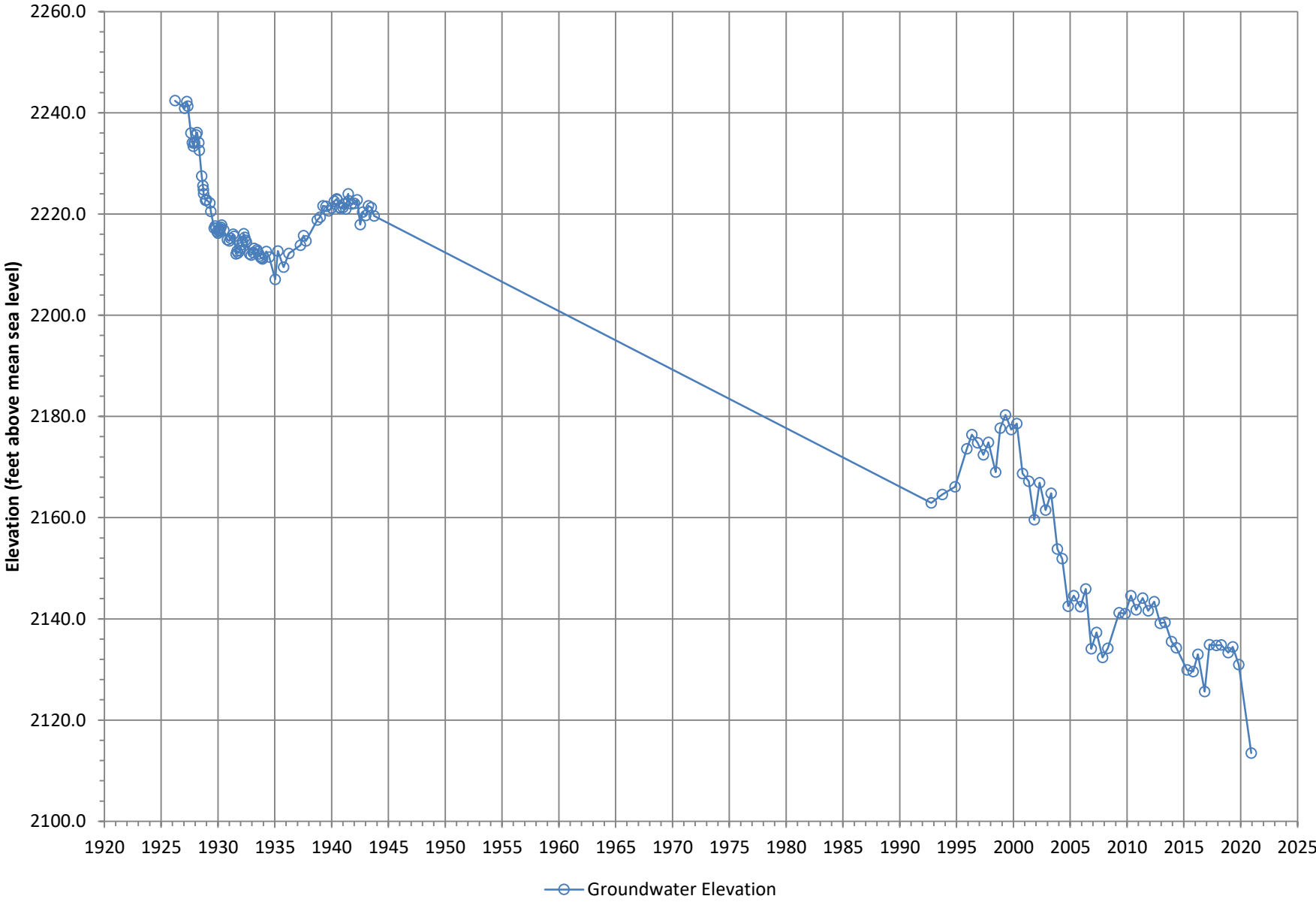


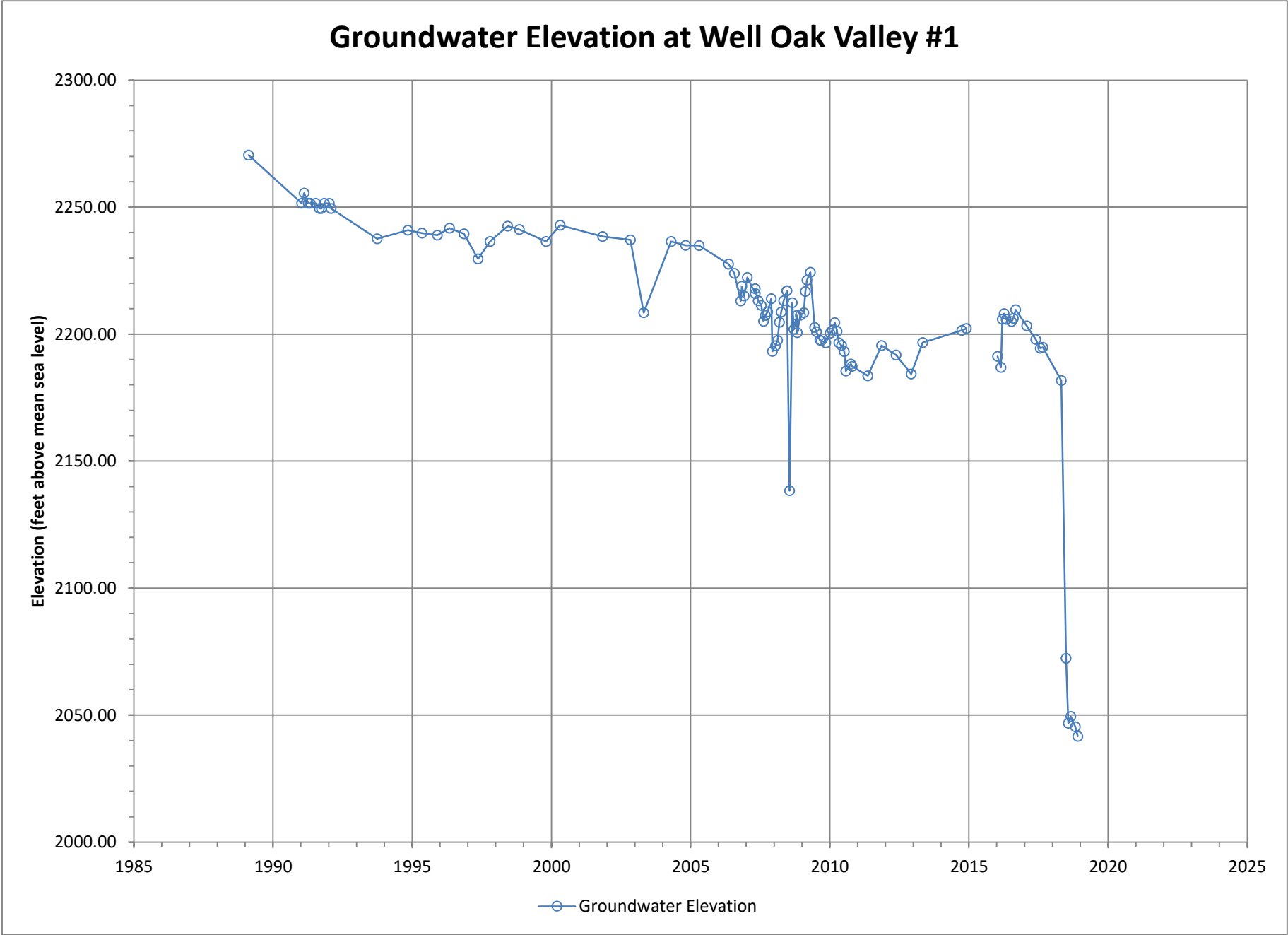


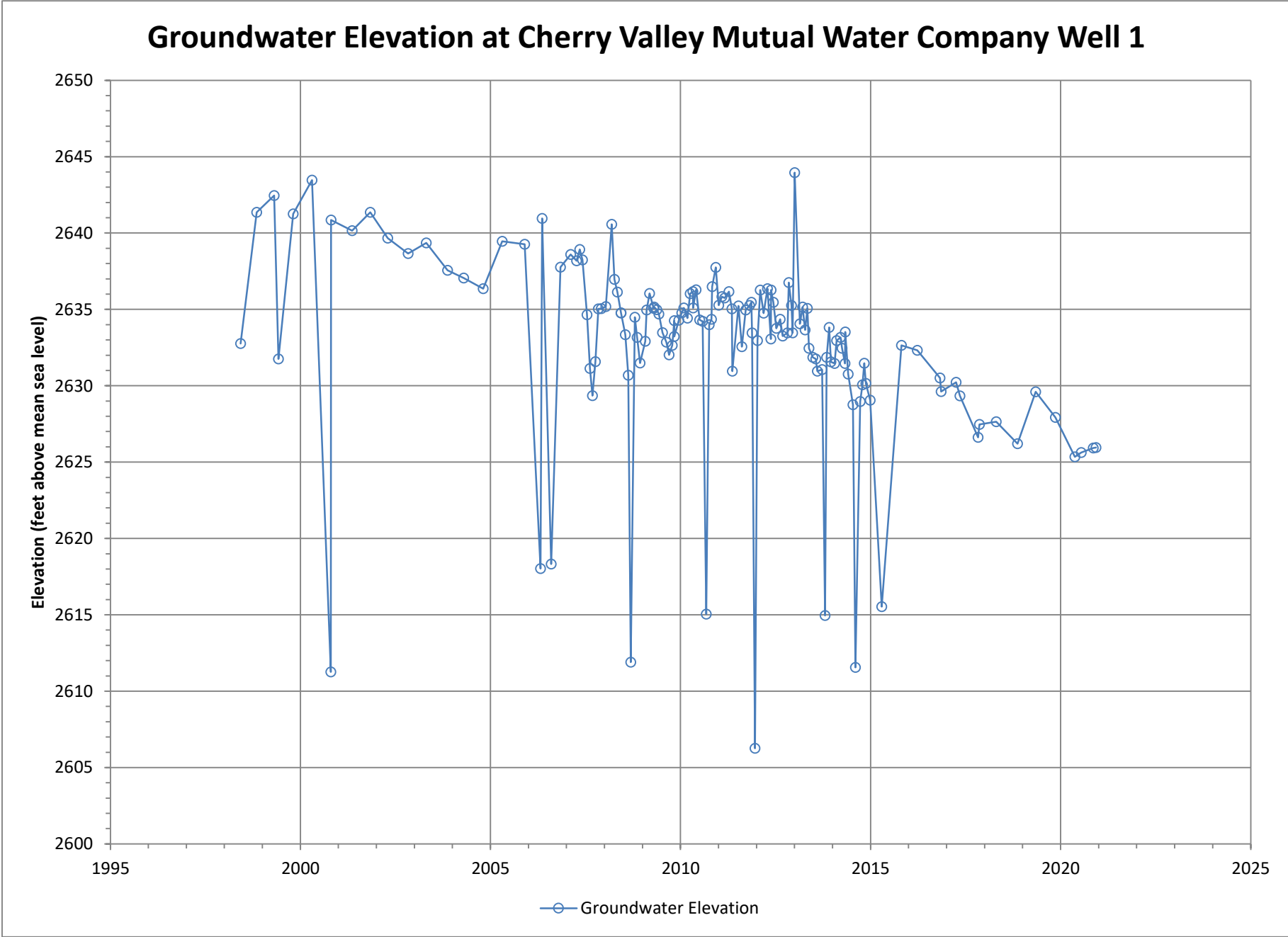


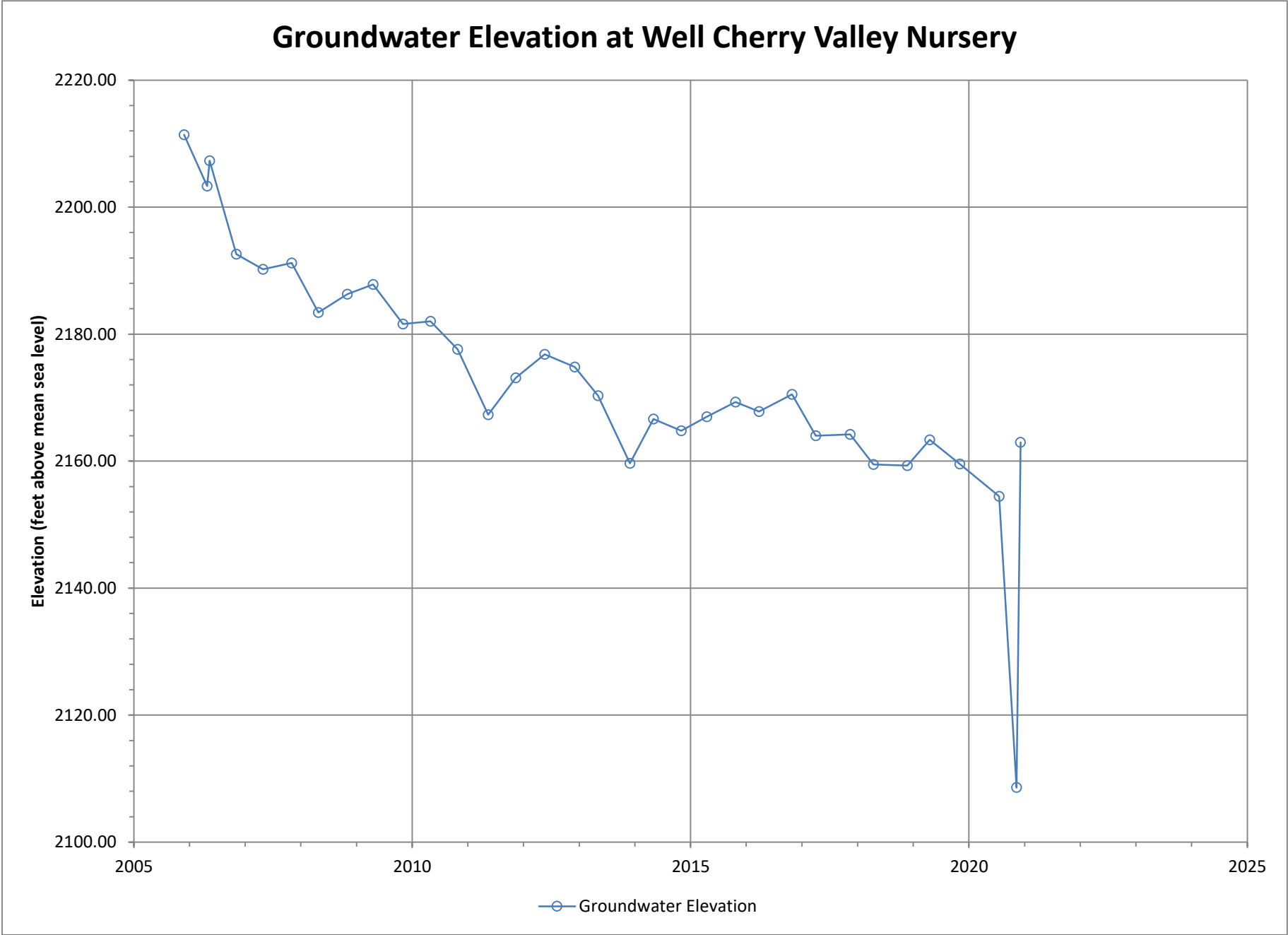


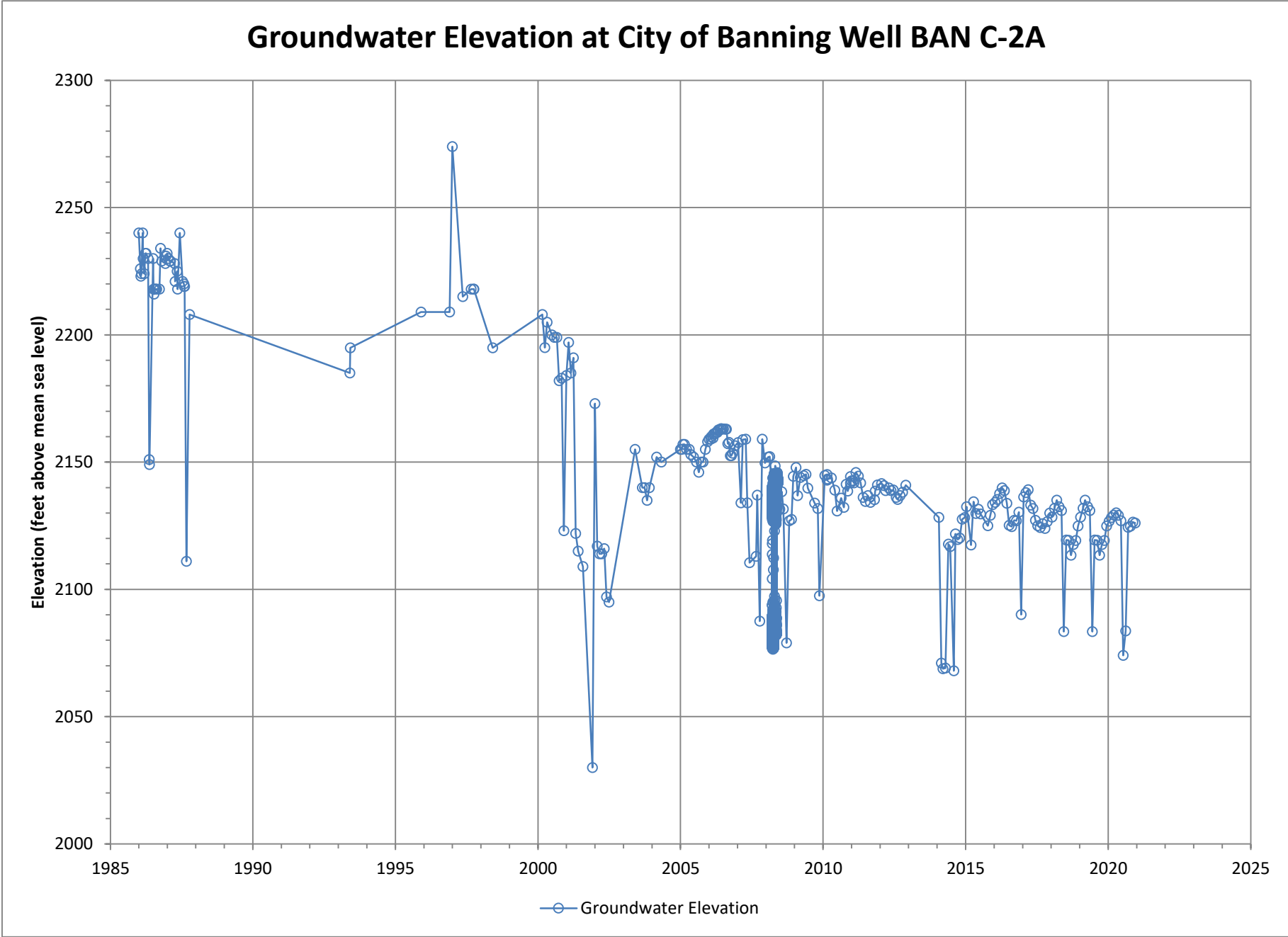
Groundwater Elevation at Well Bryan, Paul

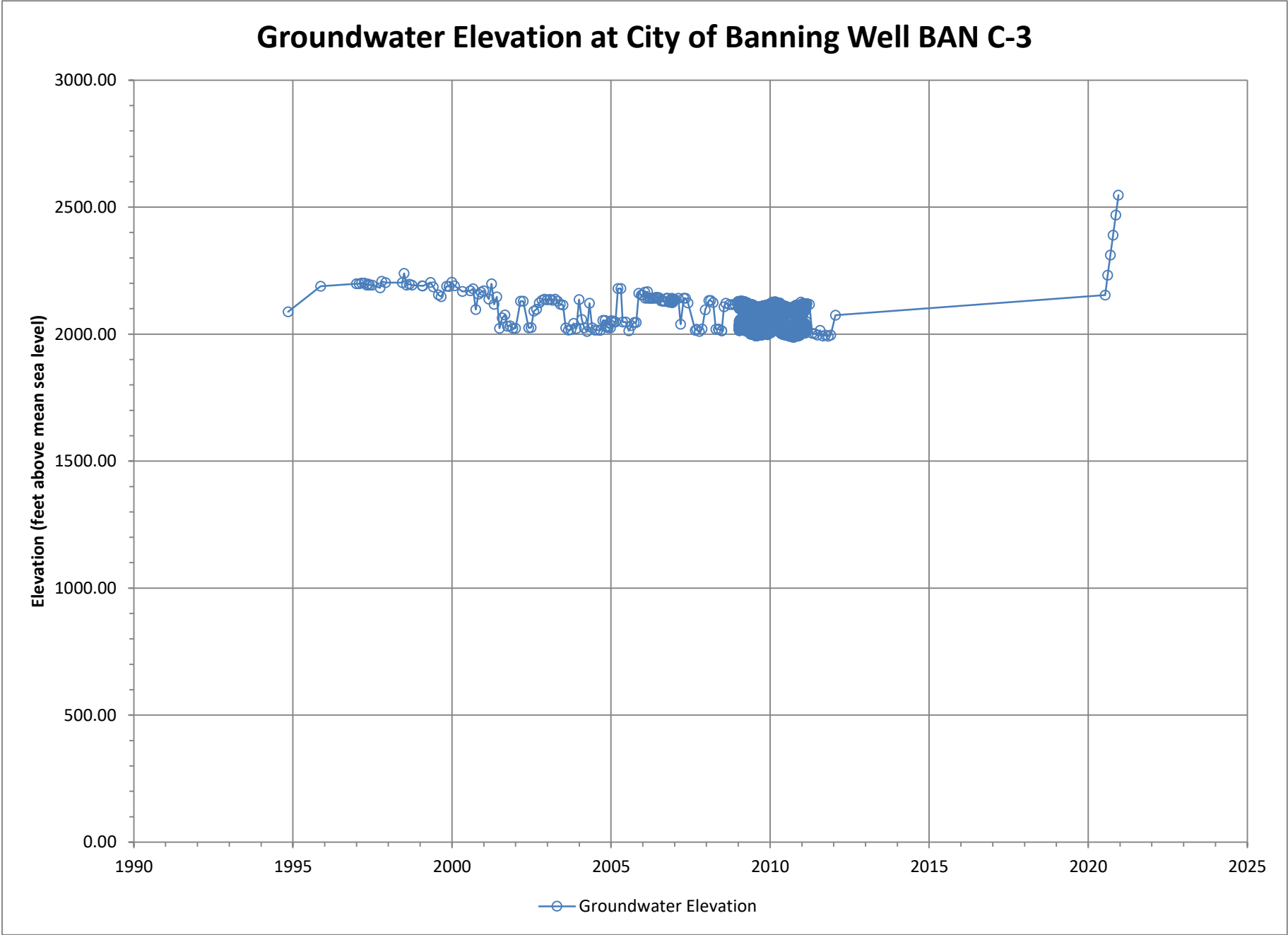


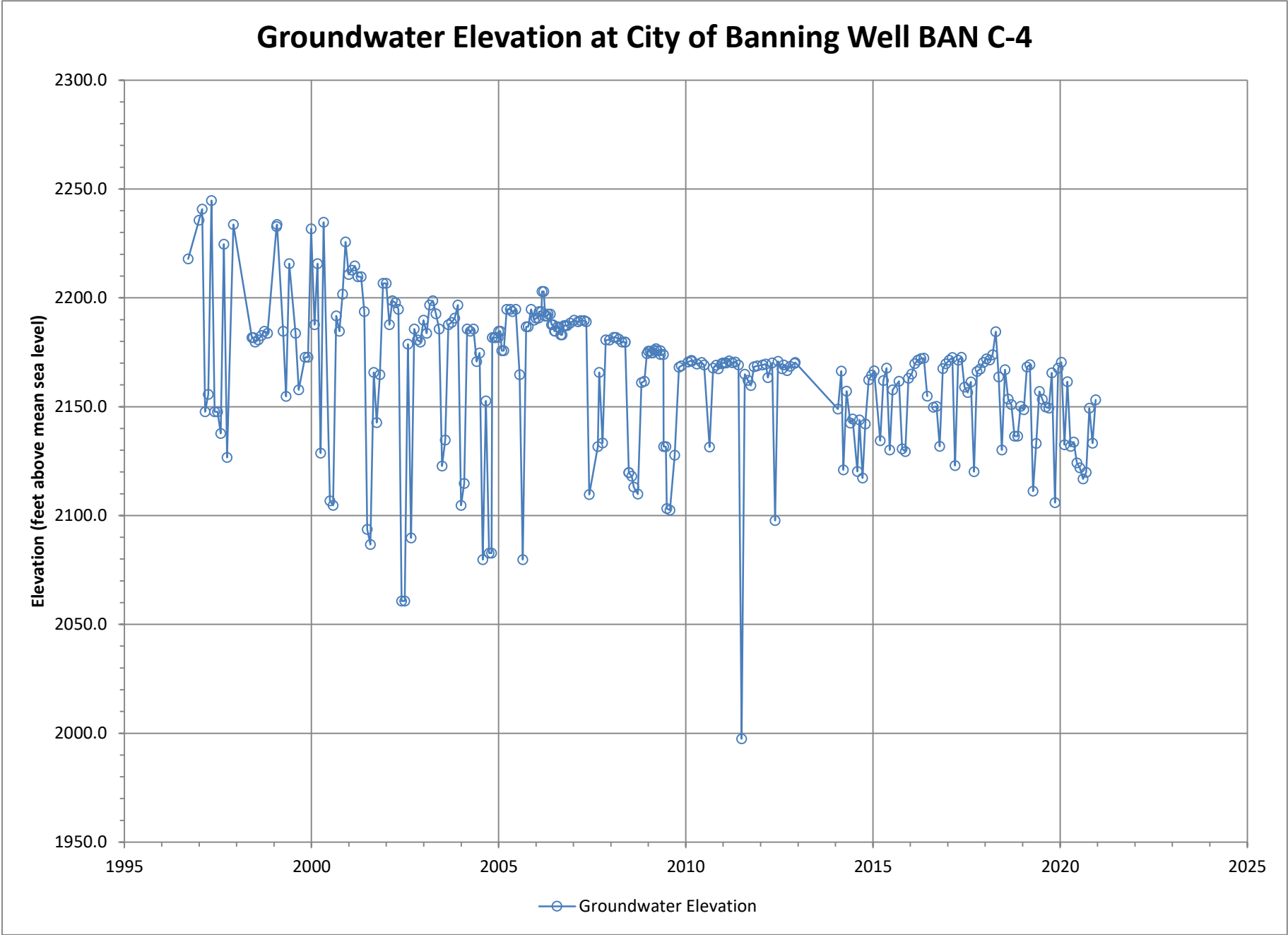


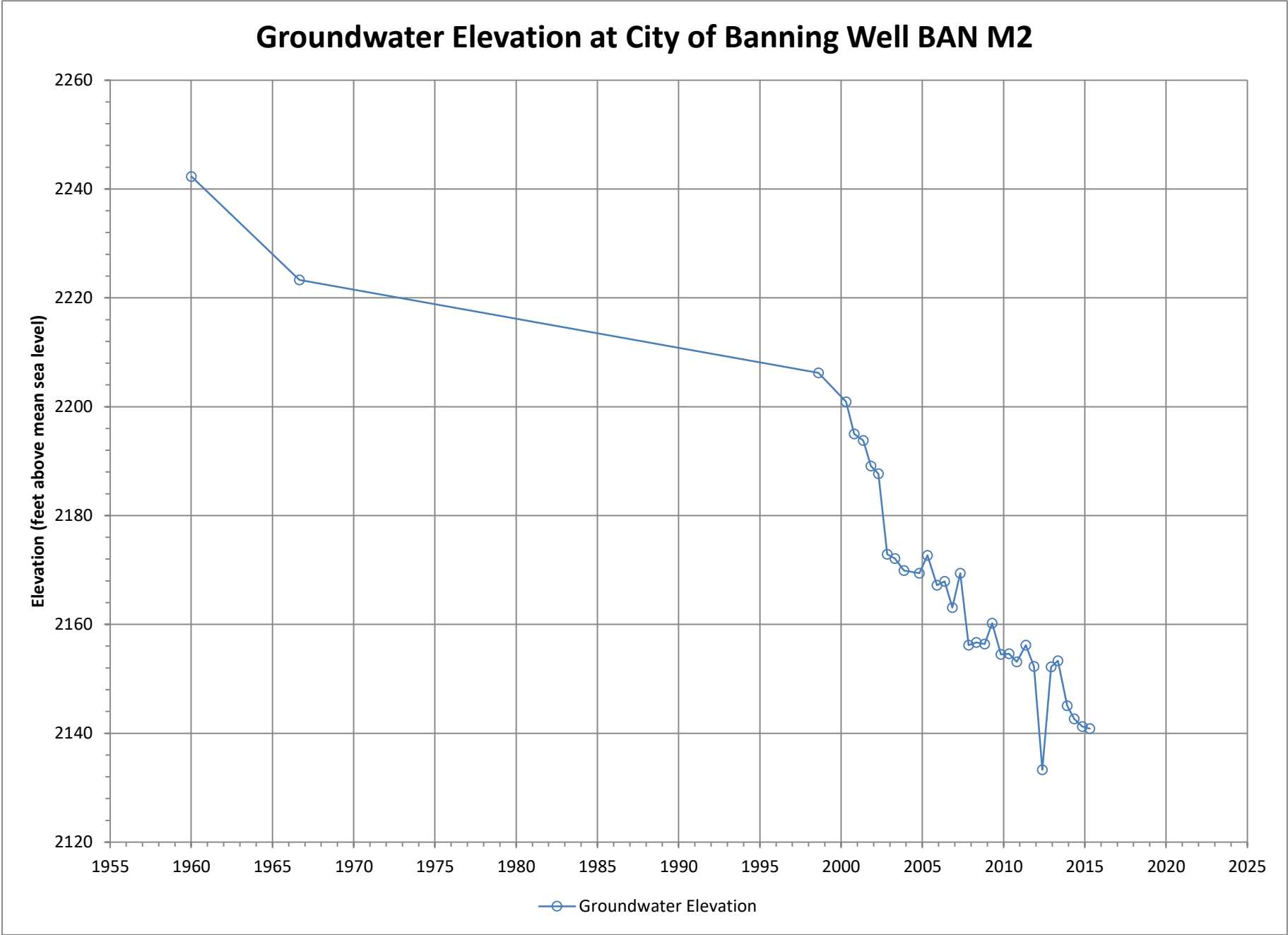


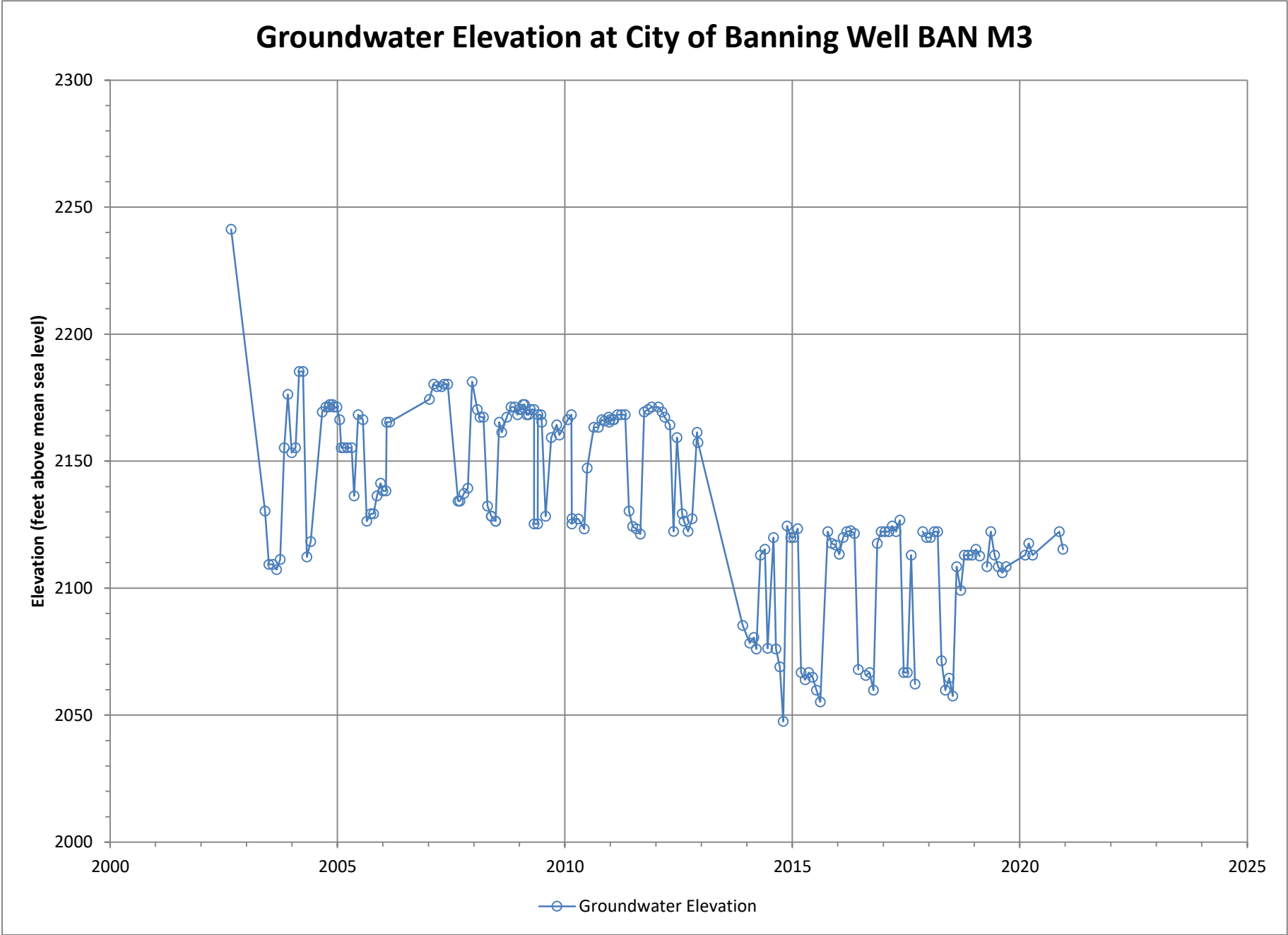




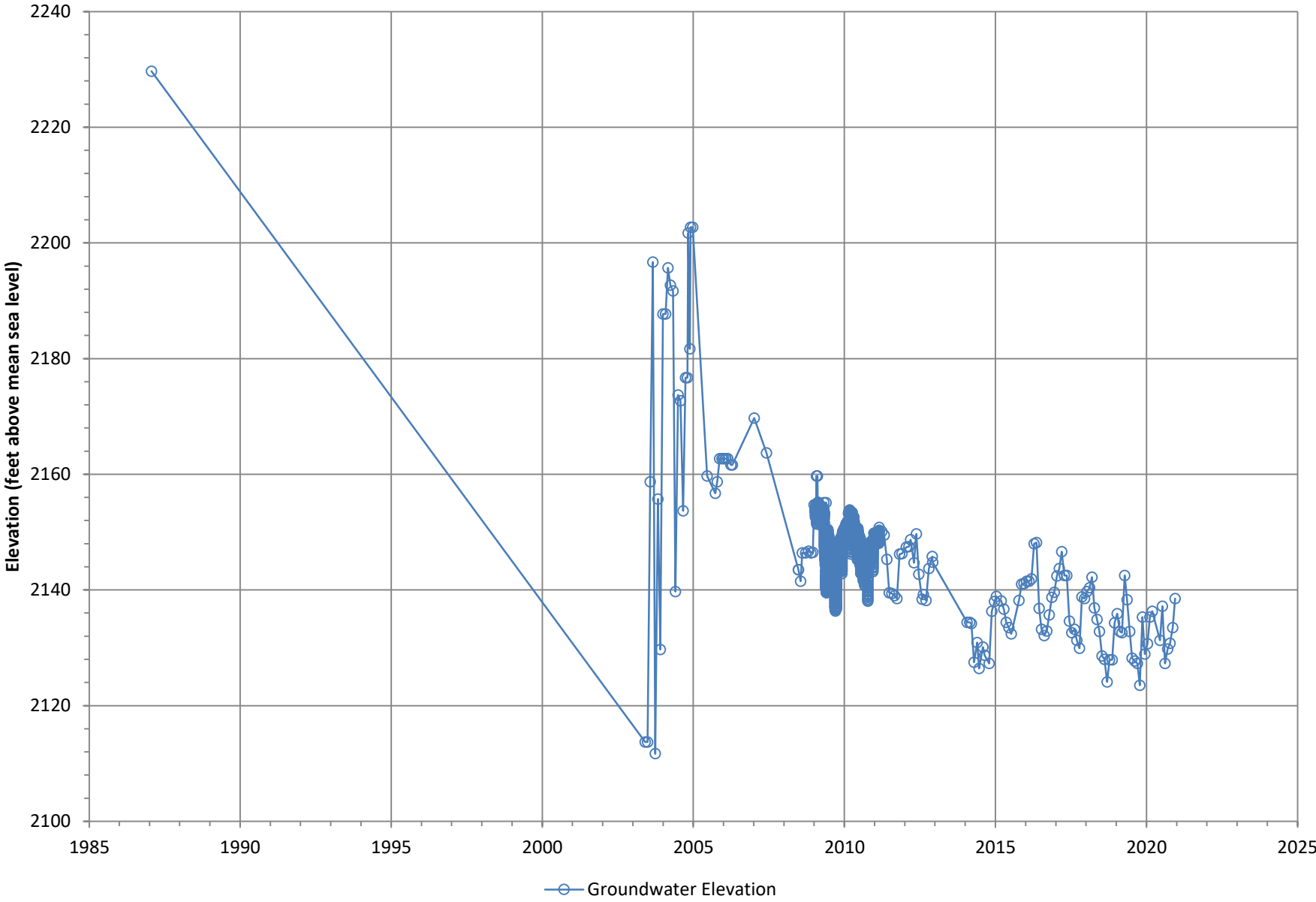




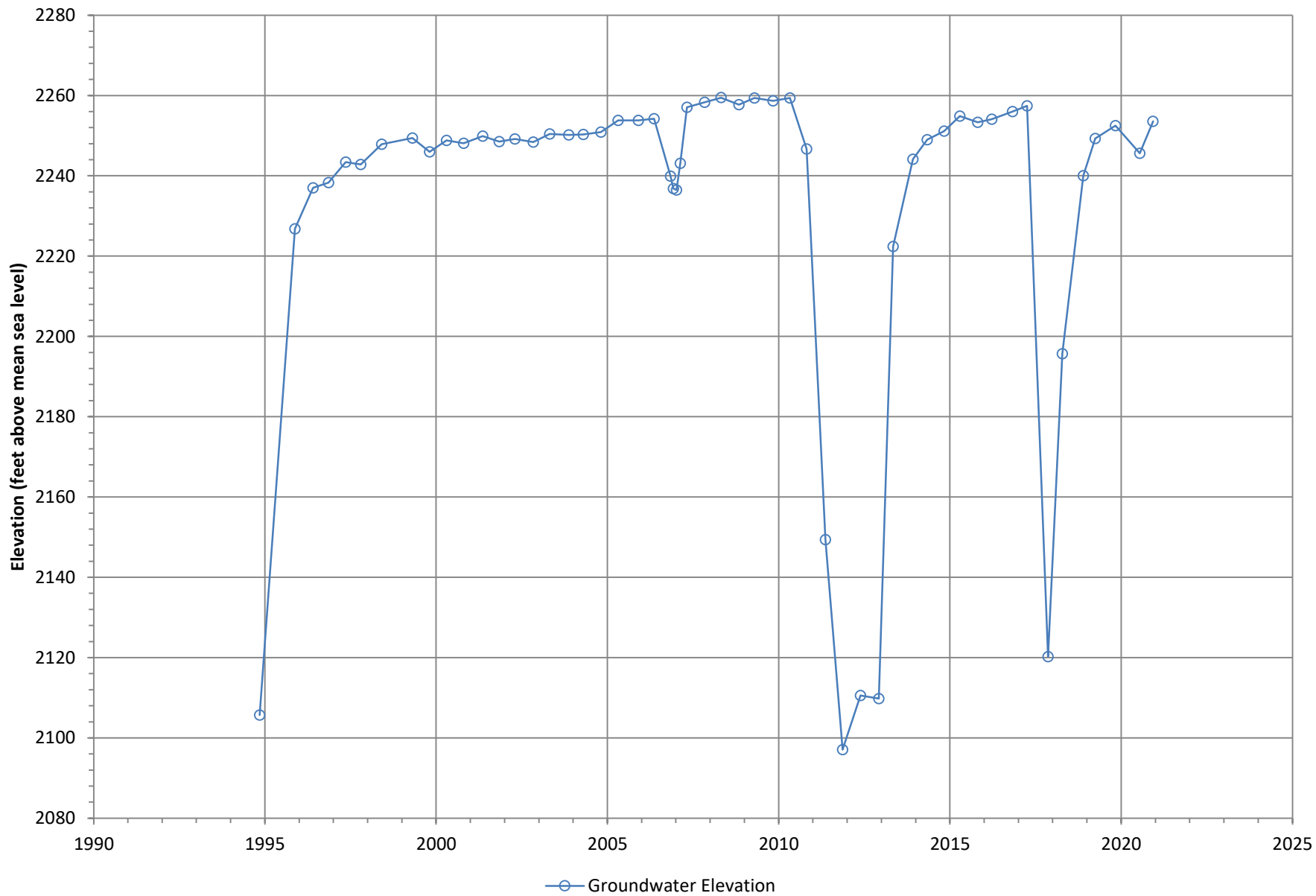


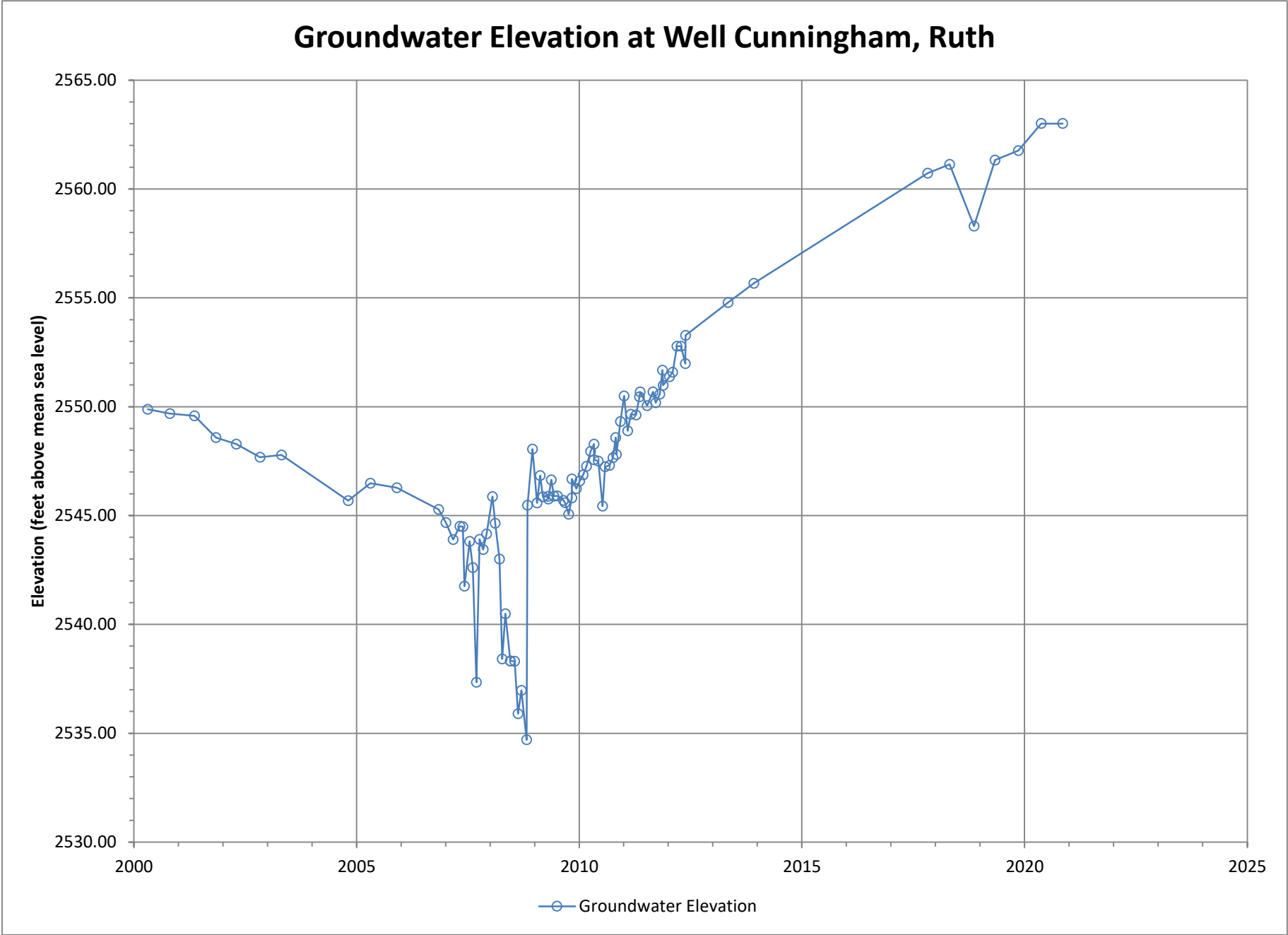


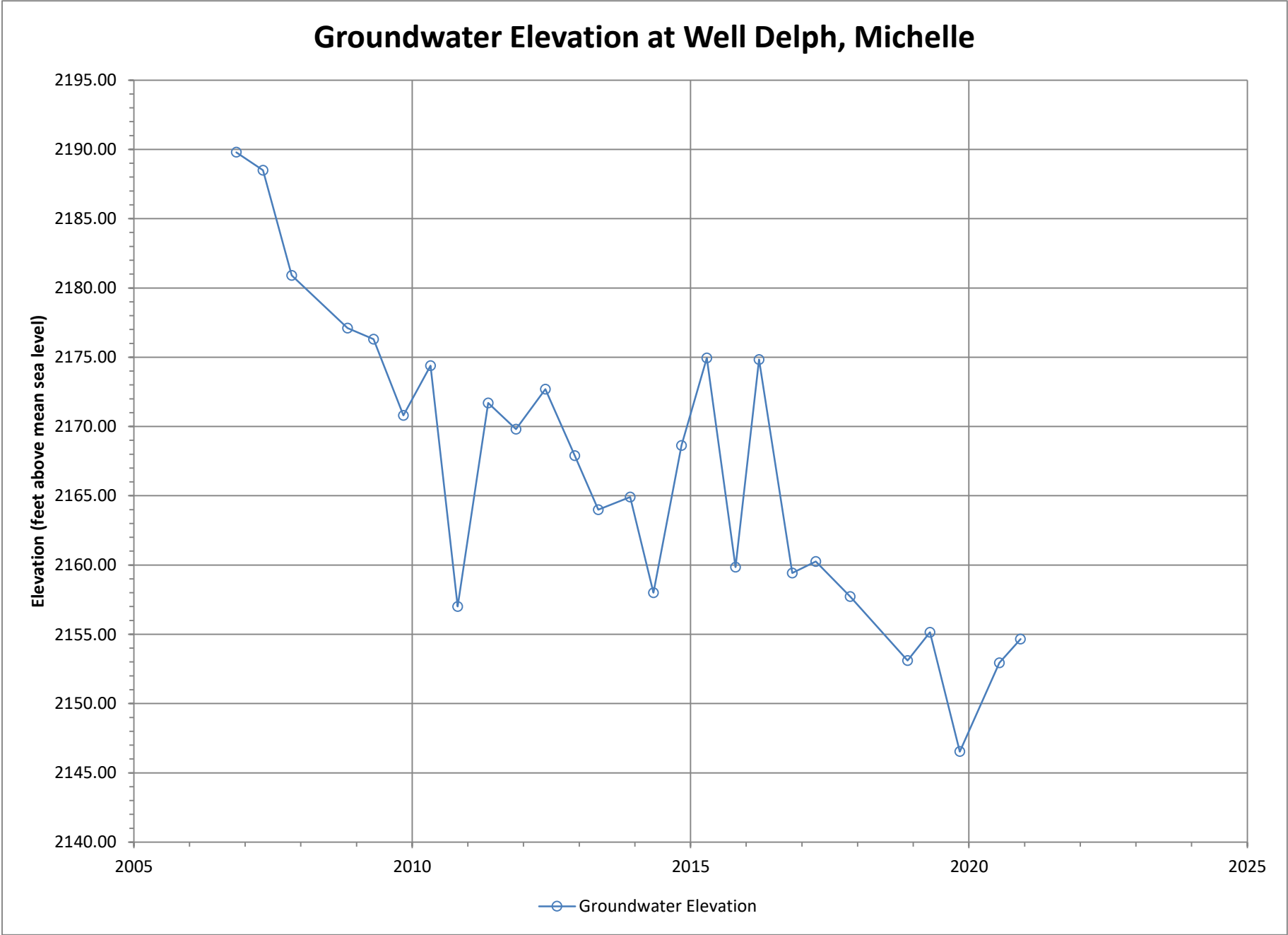
Groundwater Elevation at City of Banning Well BAN M9

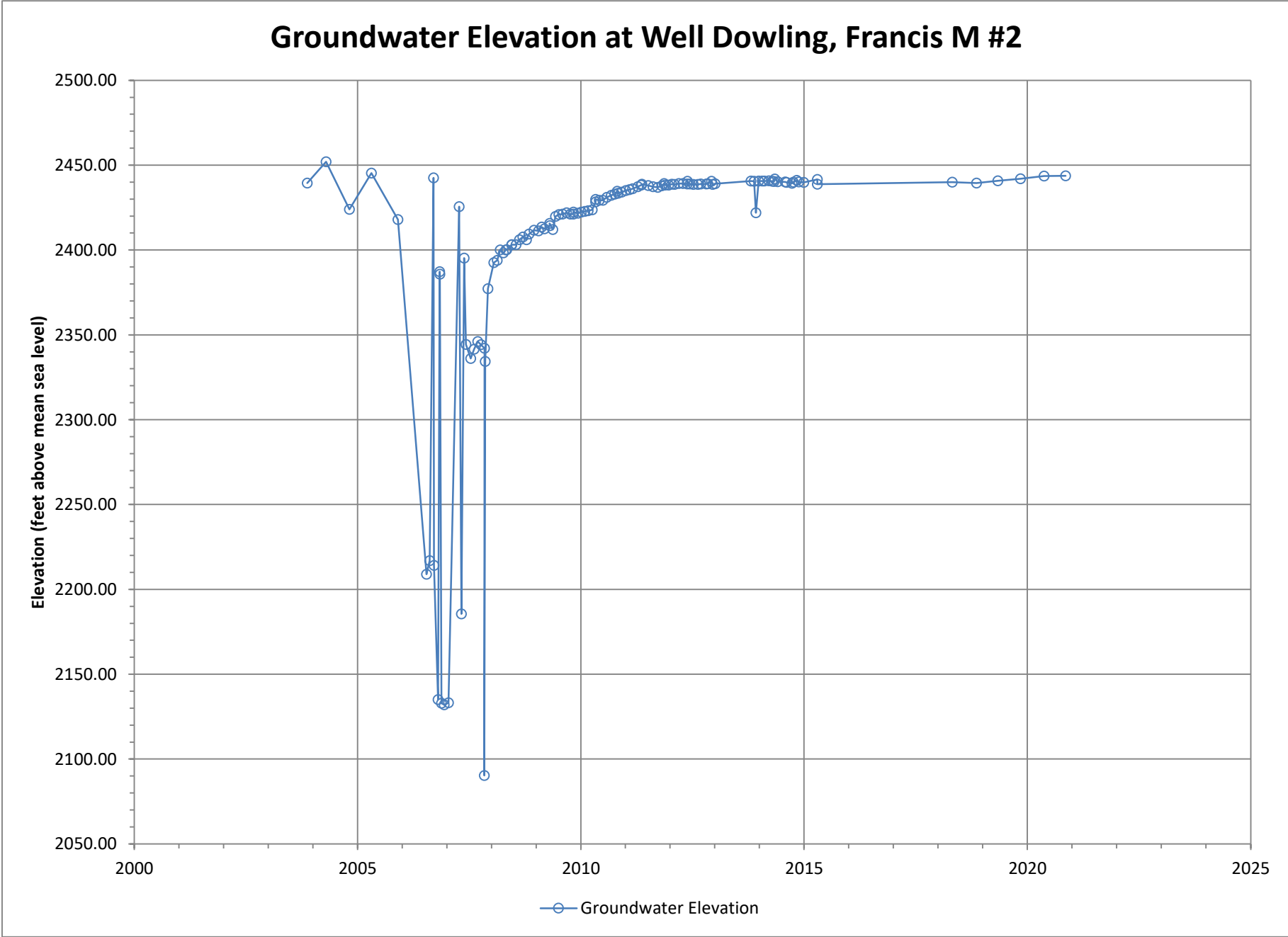


Groundwater Elevation at Well County of Riverside #608









Groundwater Elevation at Dowling Orchard Well

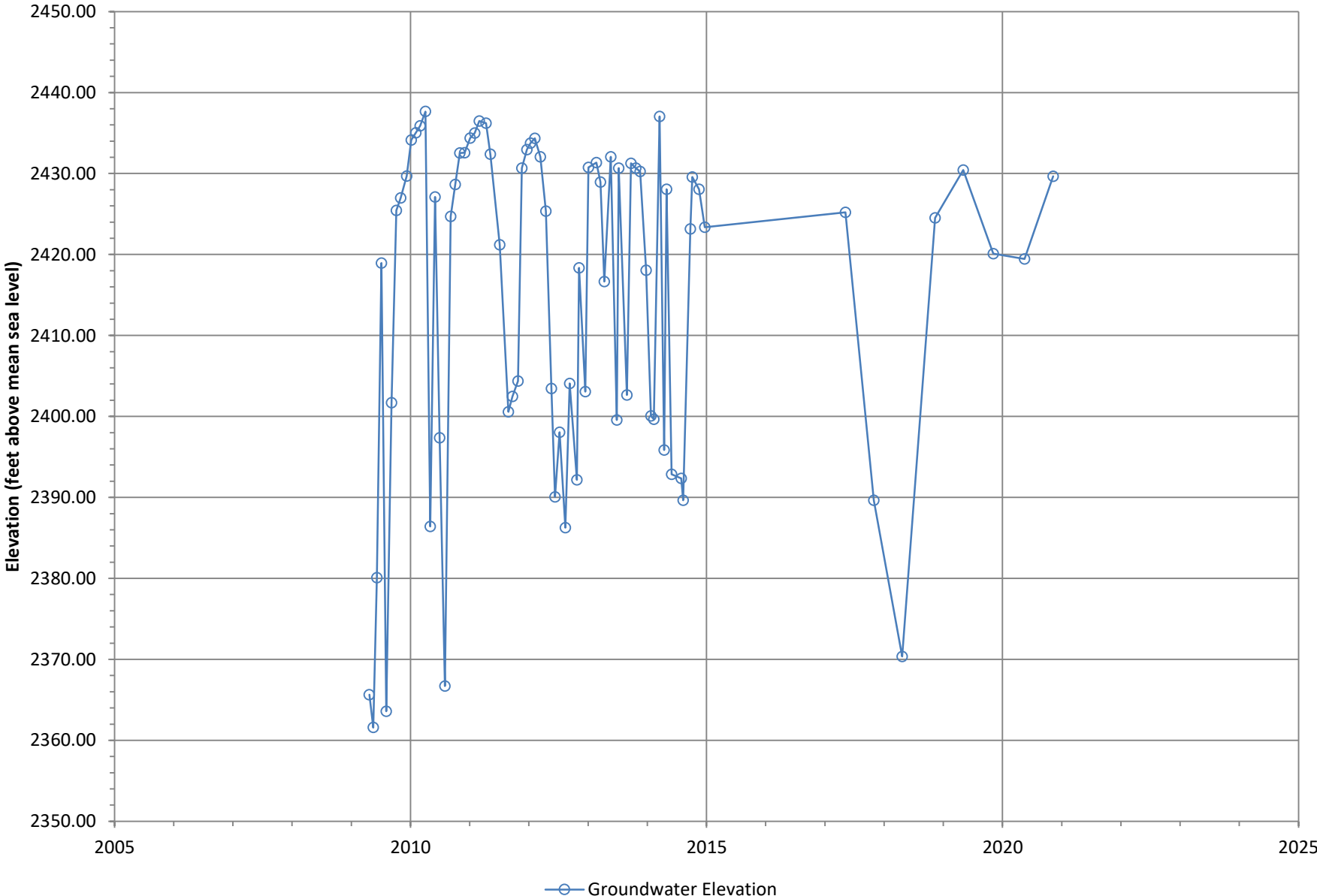
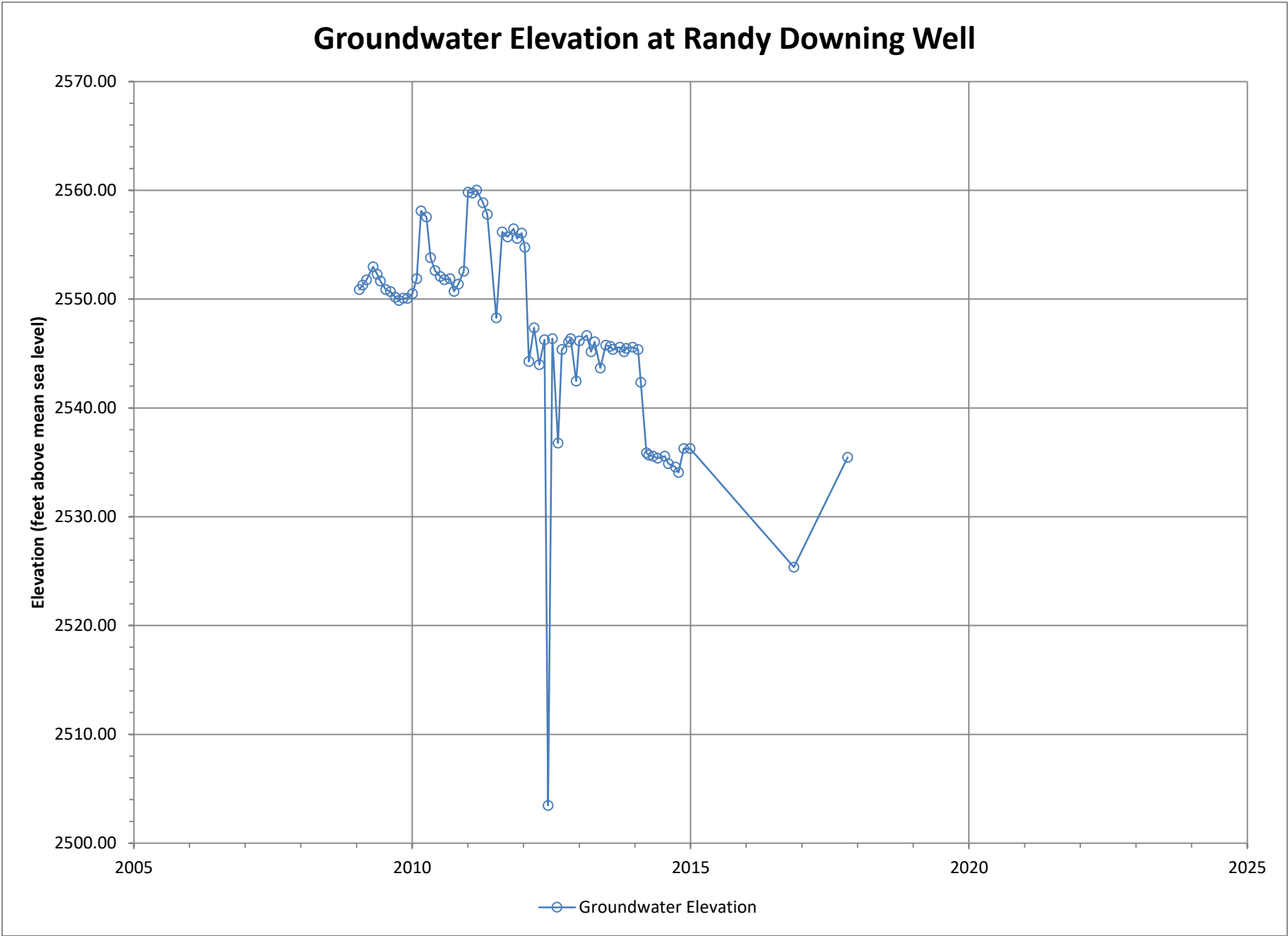
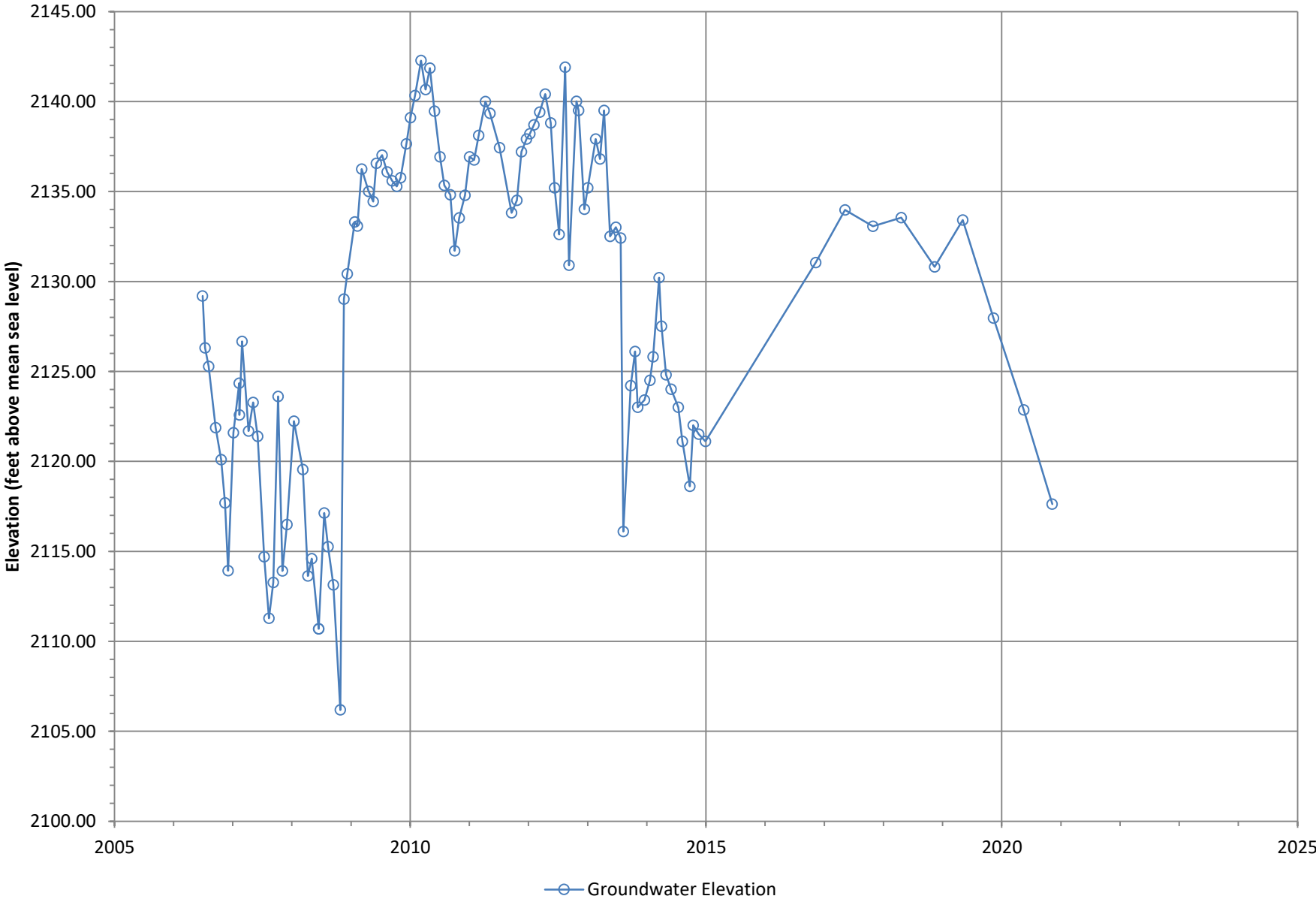


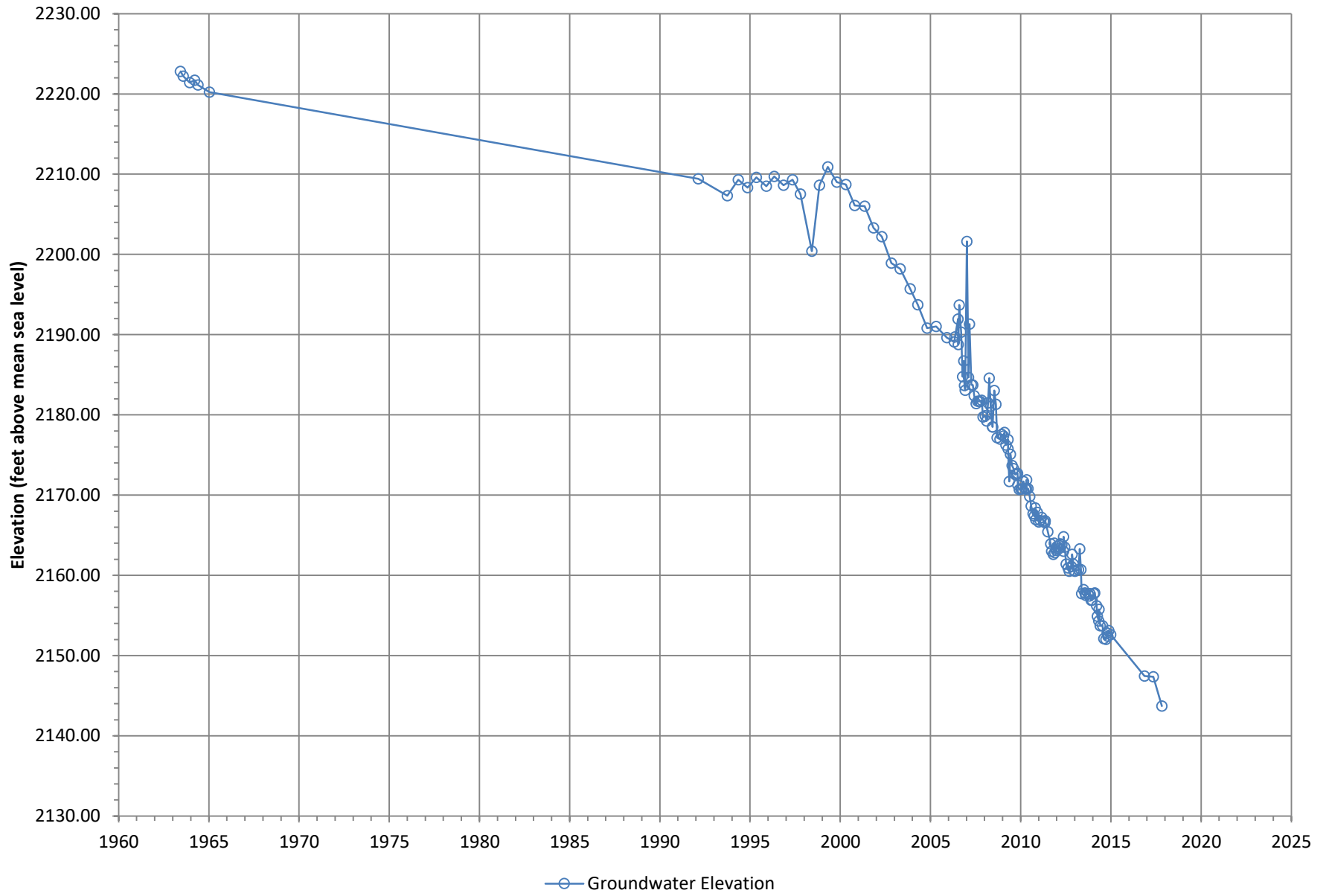
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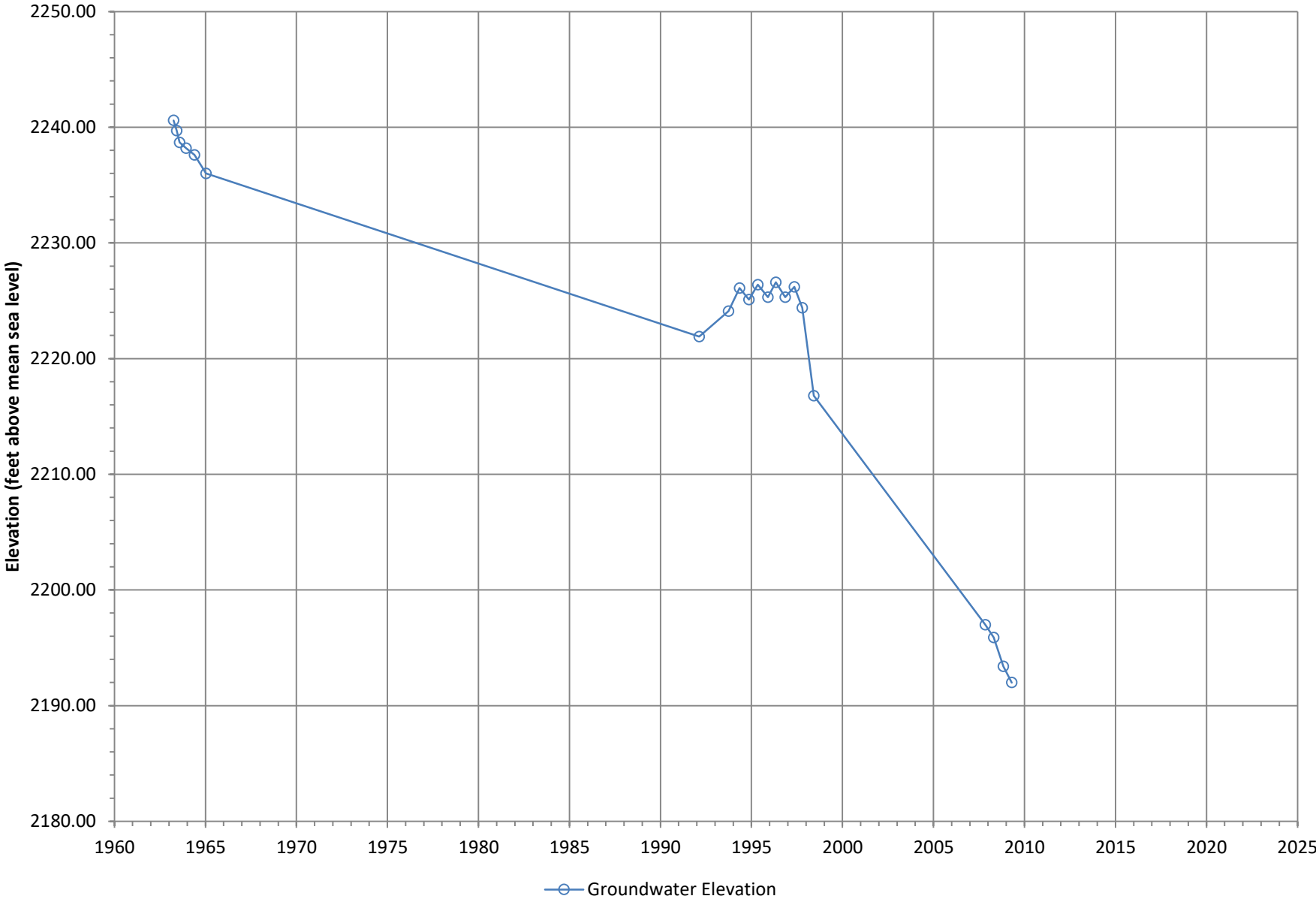
Groundwater Elevation at Well Garnar, Wilman J.

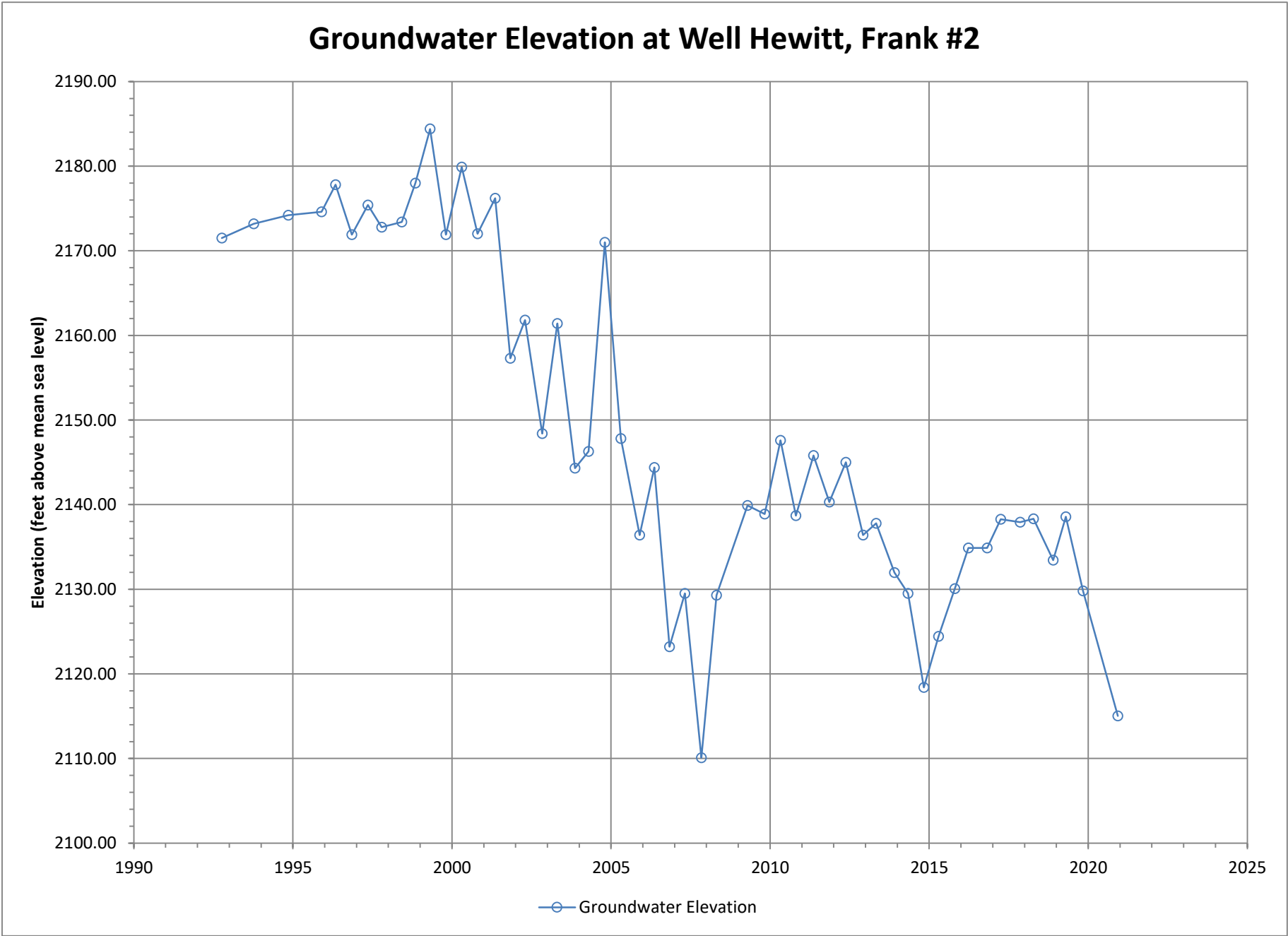


Groundwater Elevation at Well Hallana Equities

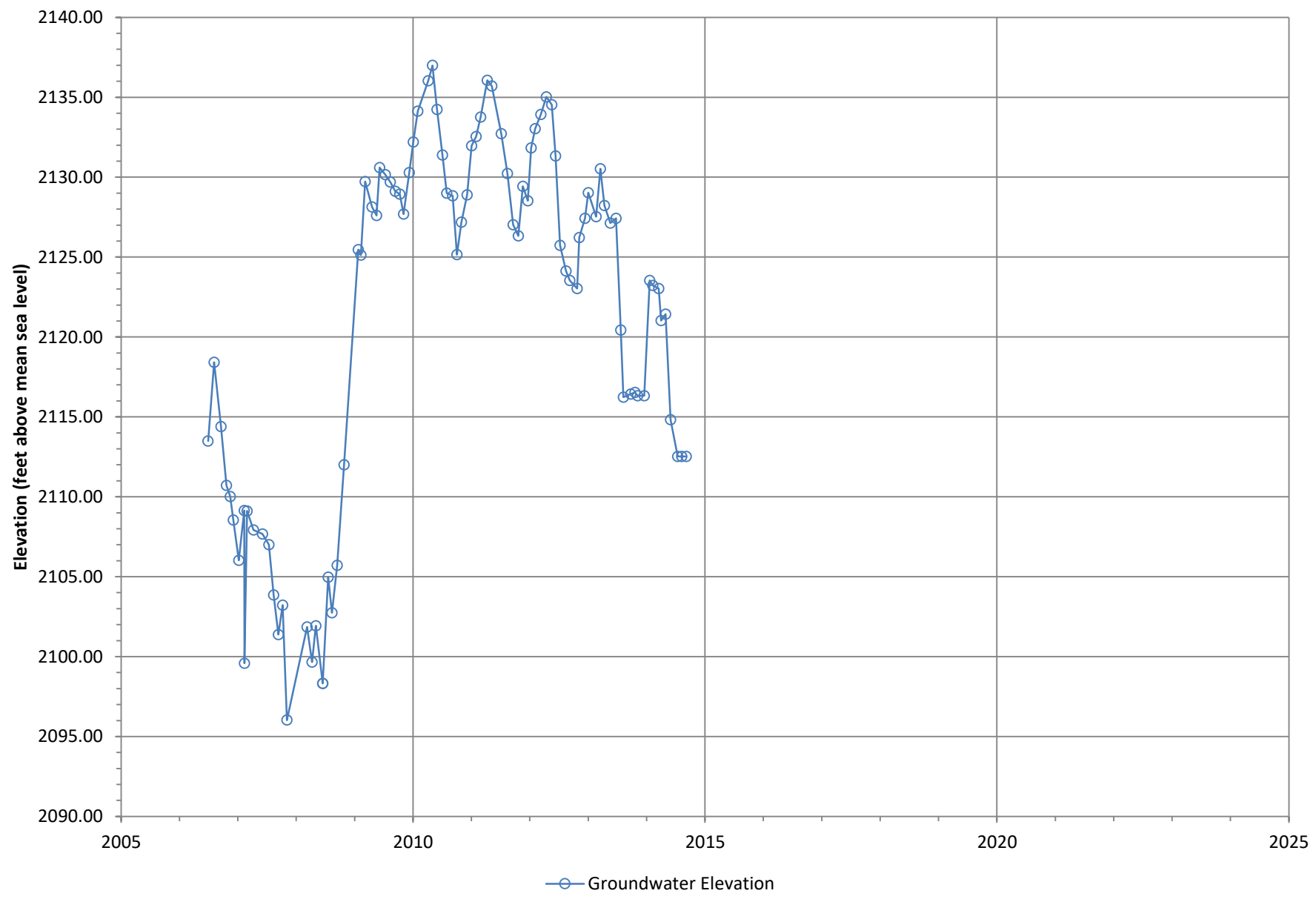


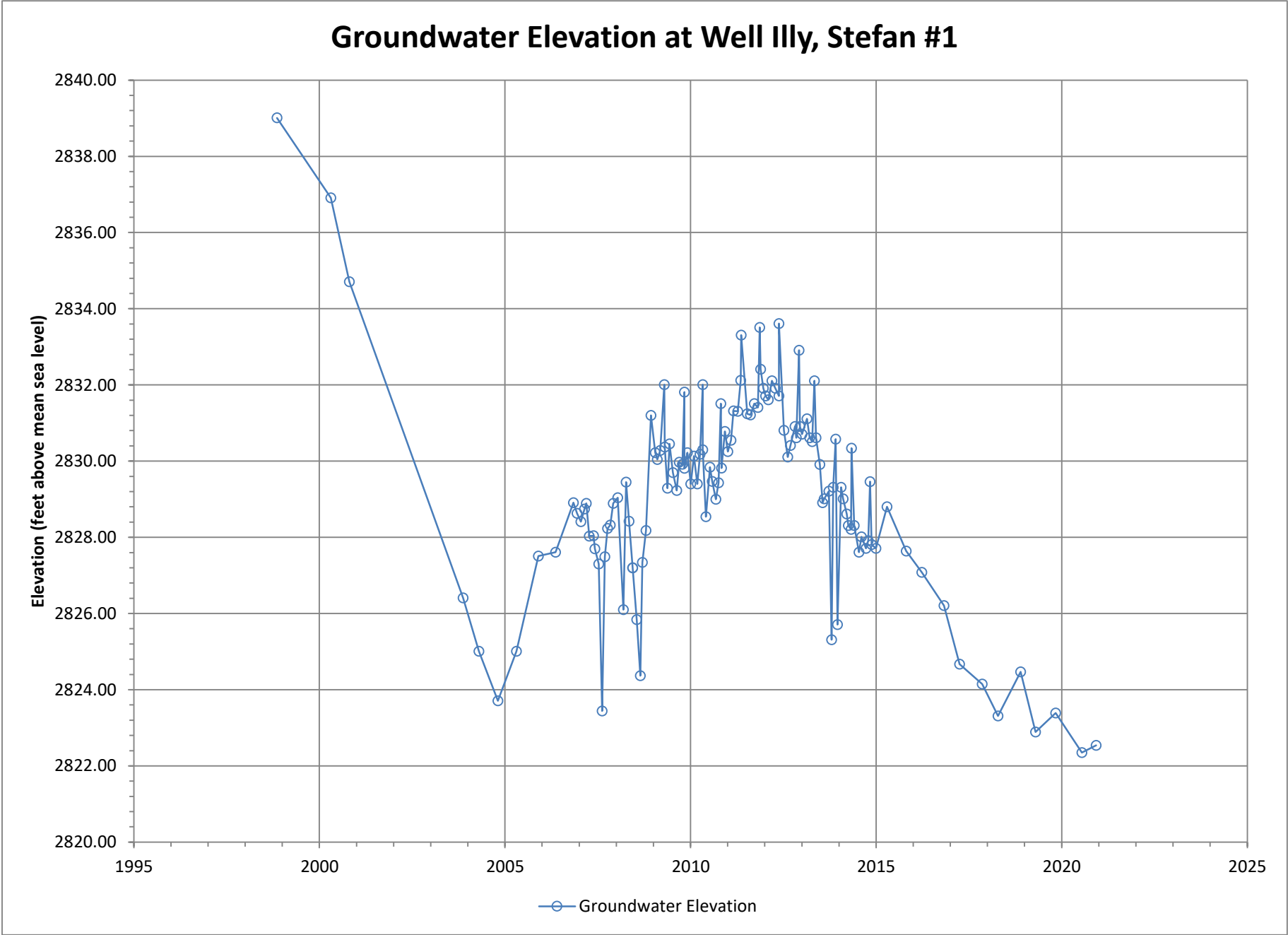
Groundwater Elevation at Well Hallana Equities No. 1

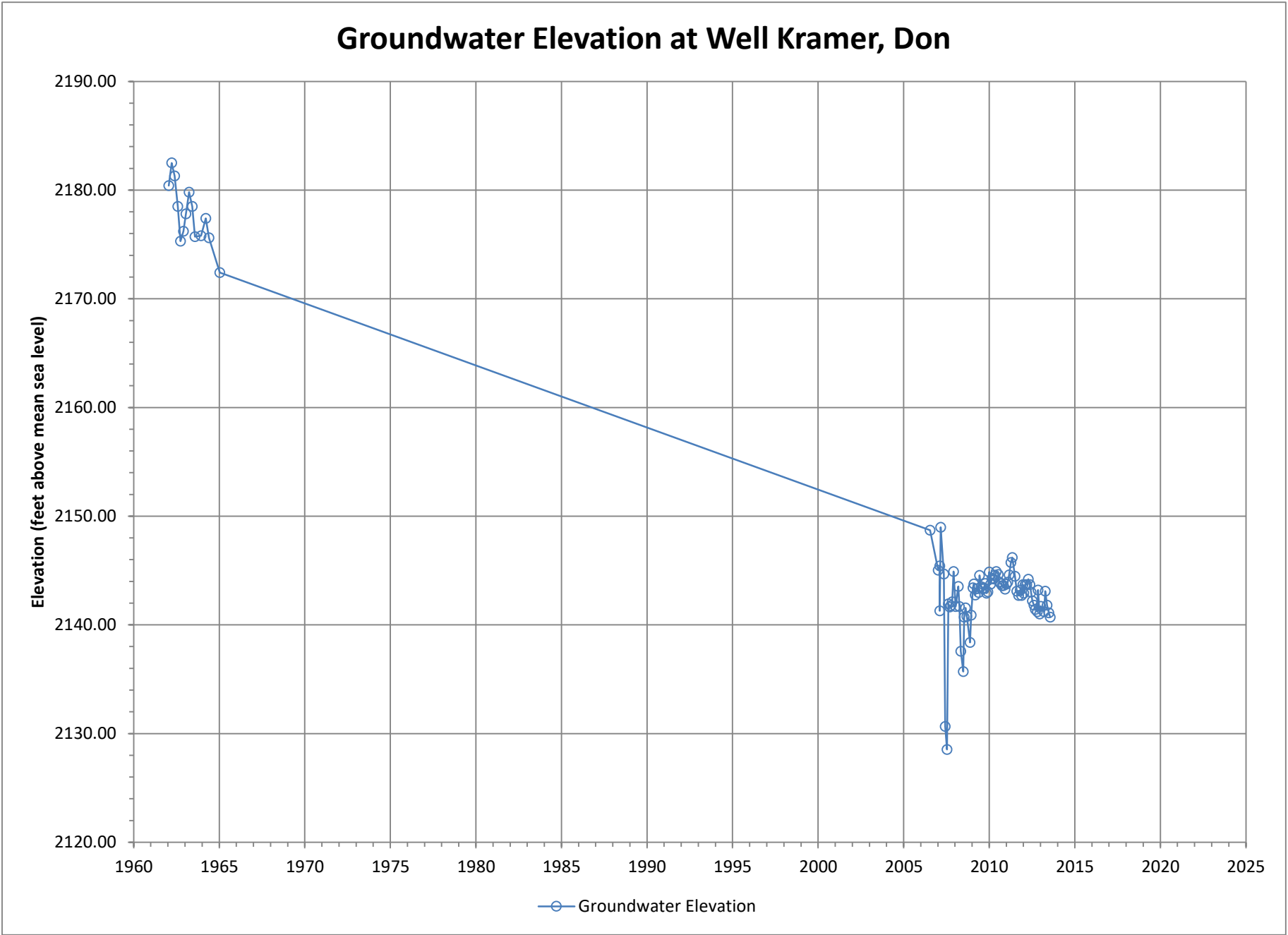


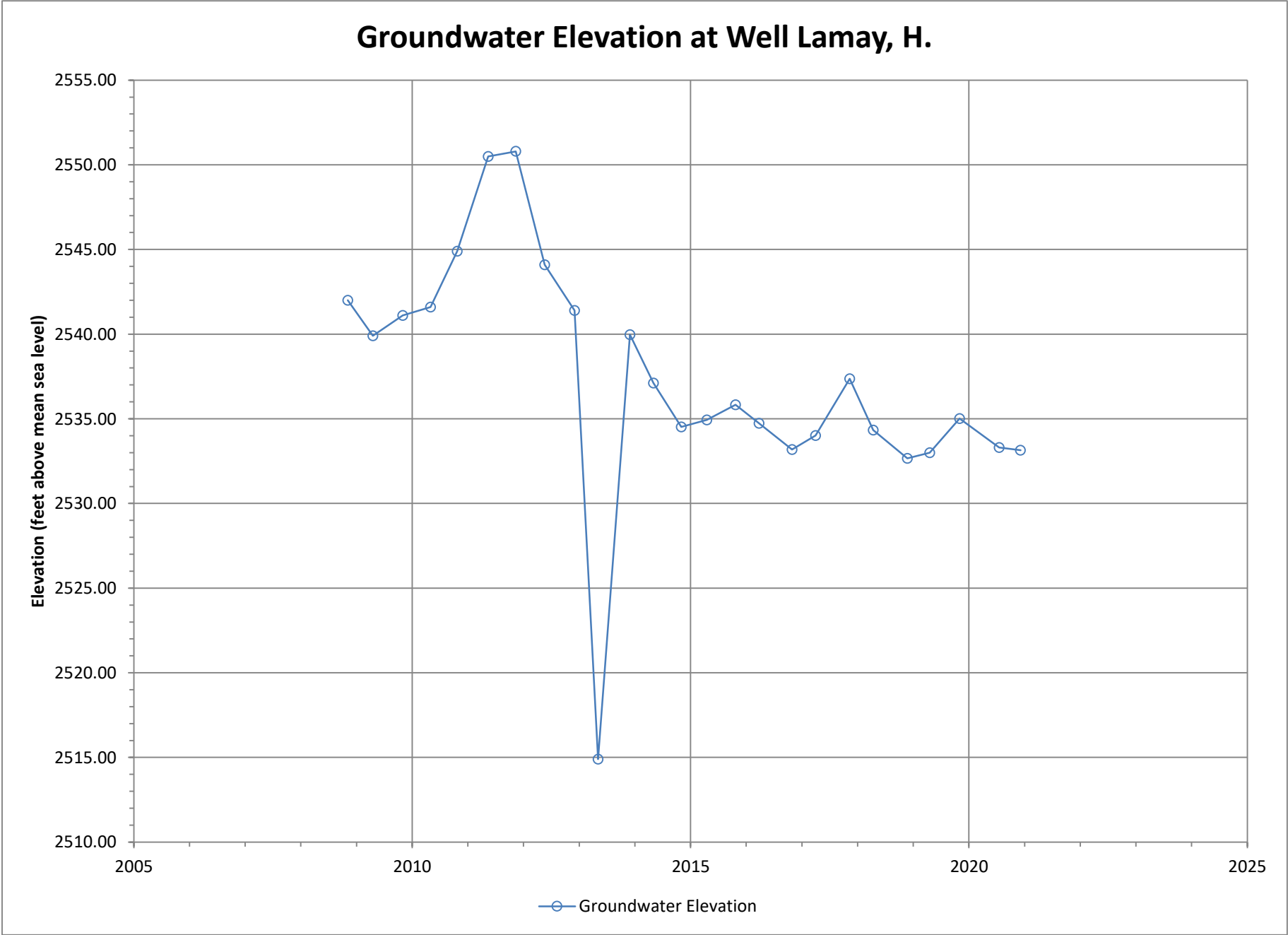


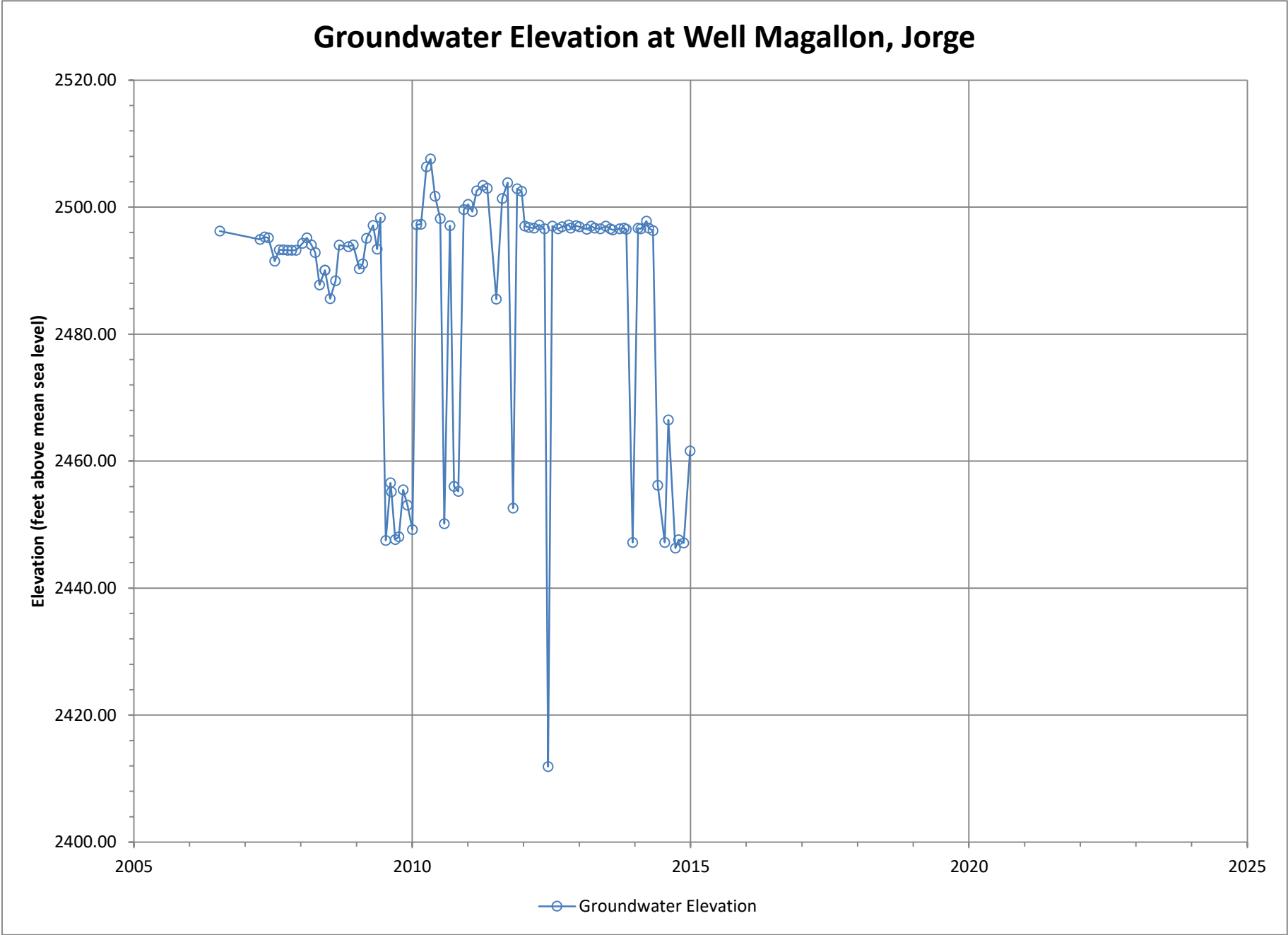
Groundwater Elevation at Well Hewitt, Patricia #3



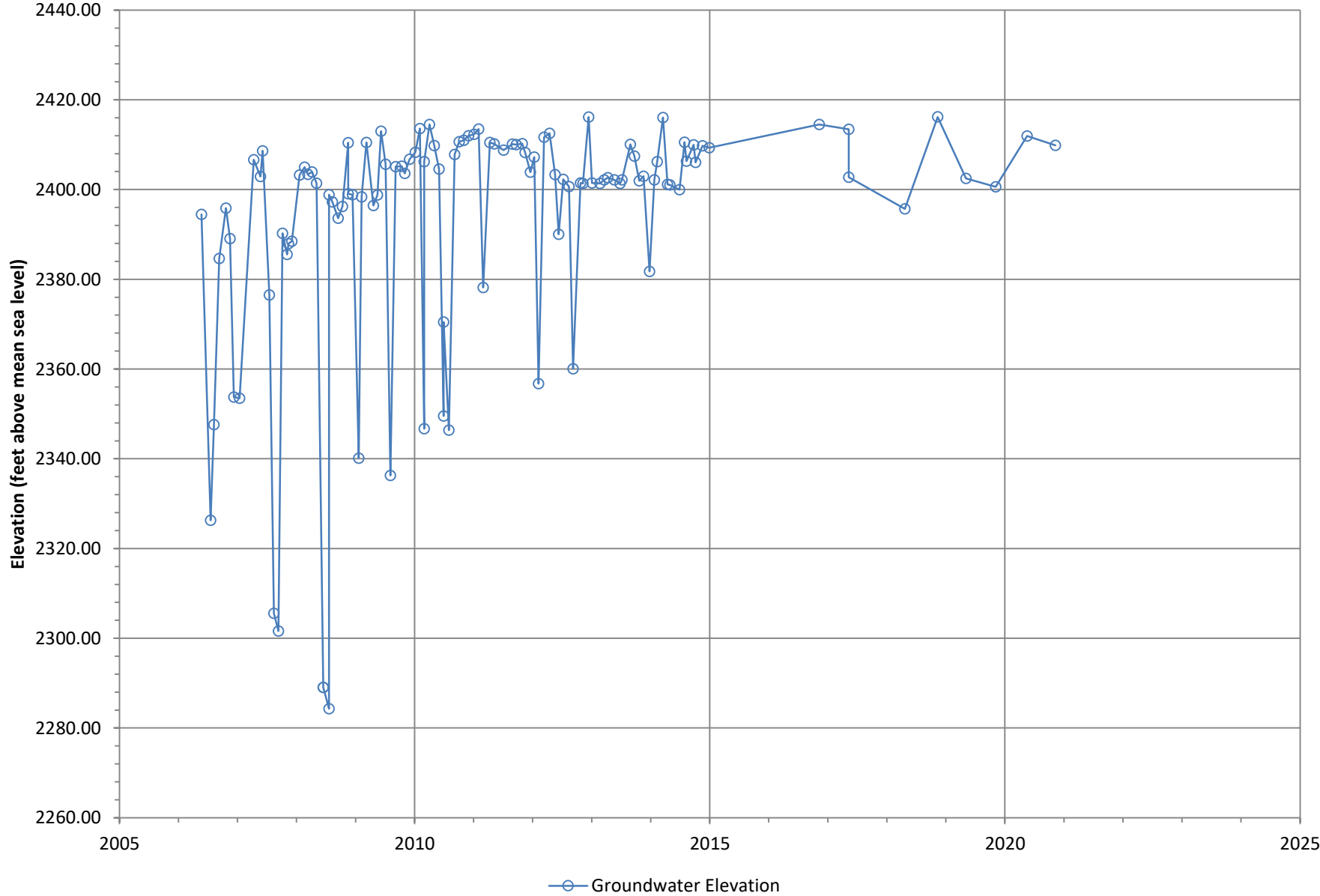


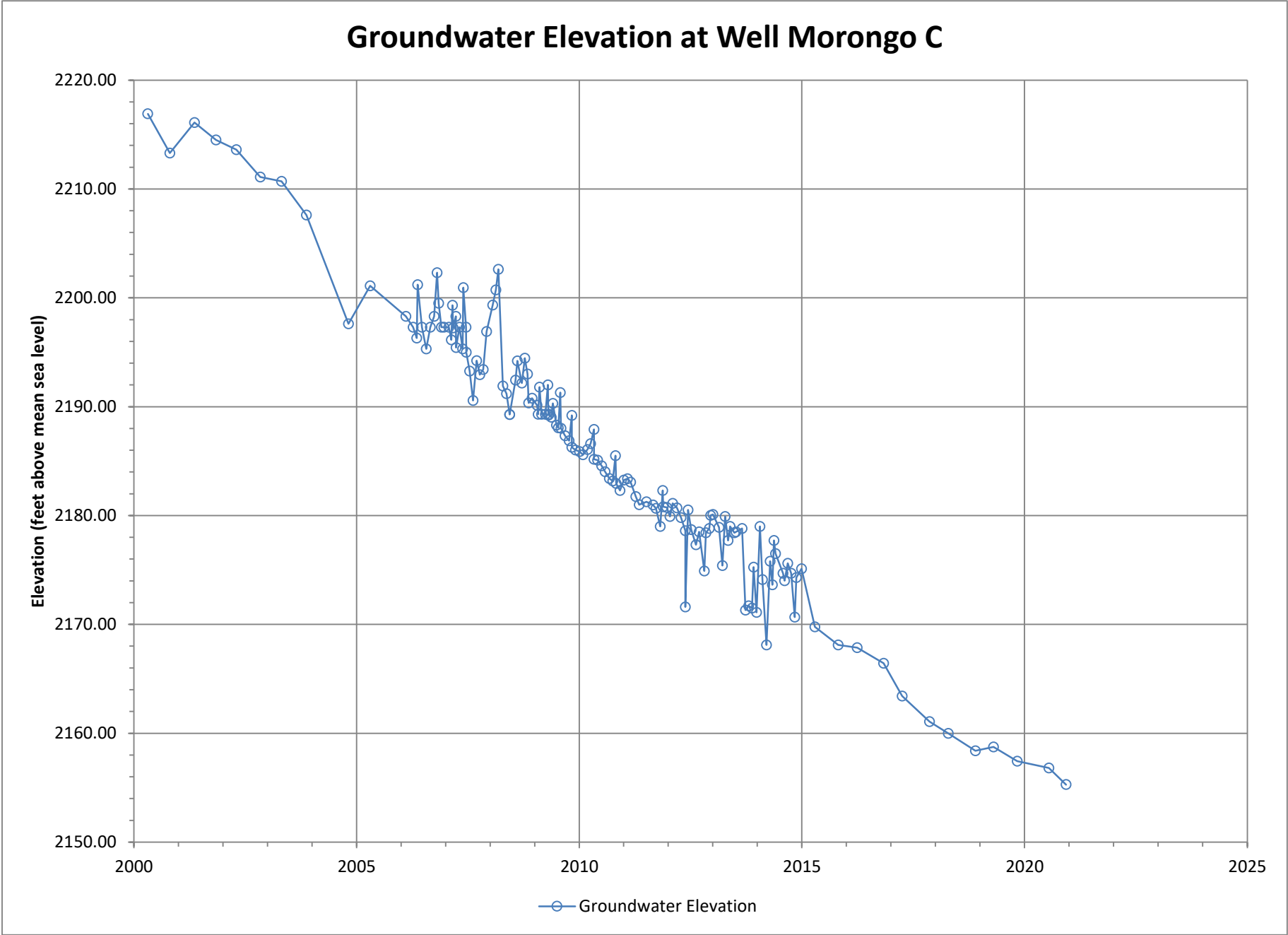


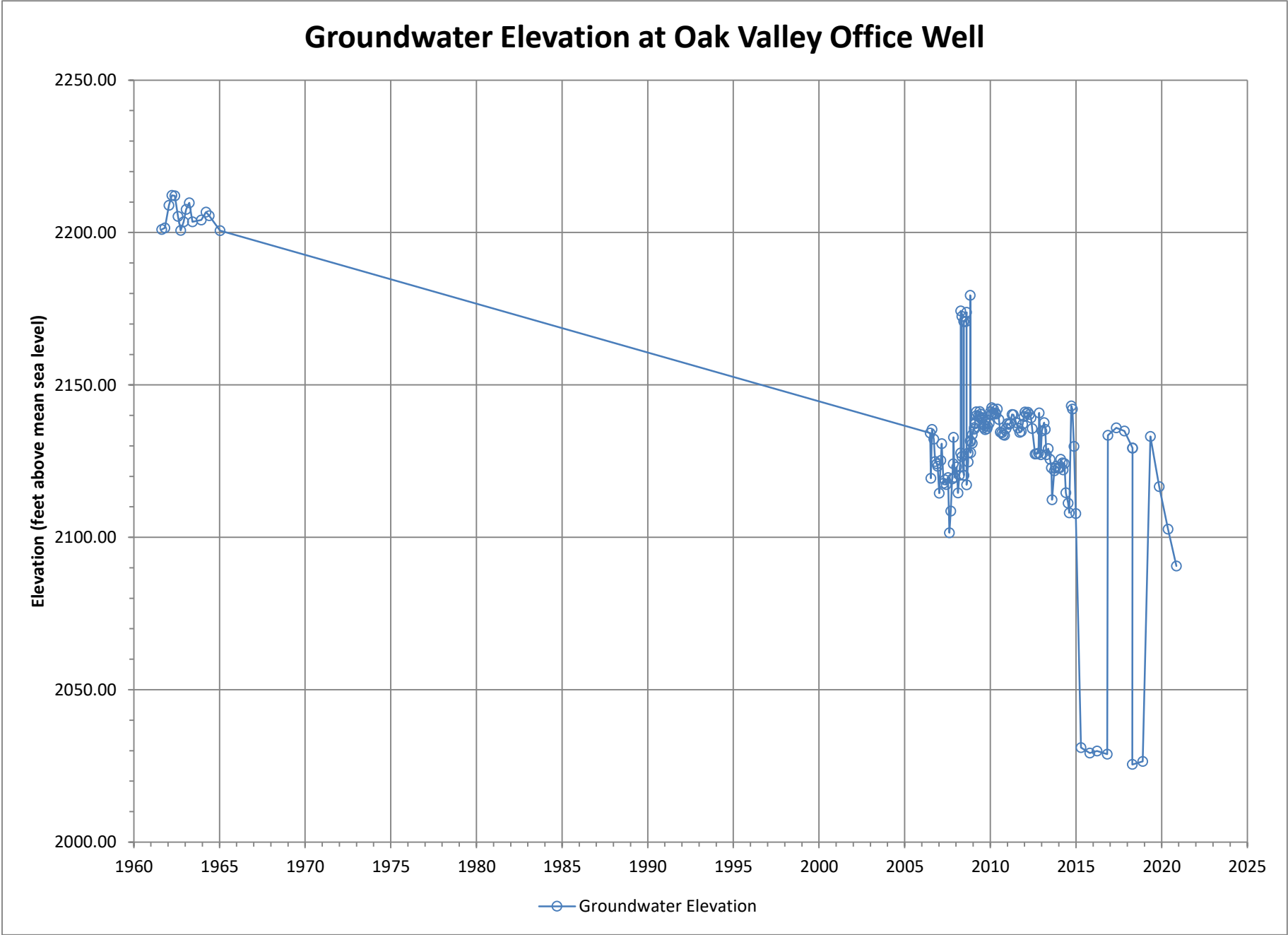




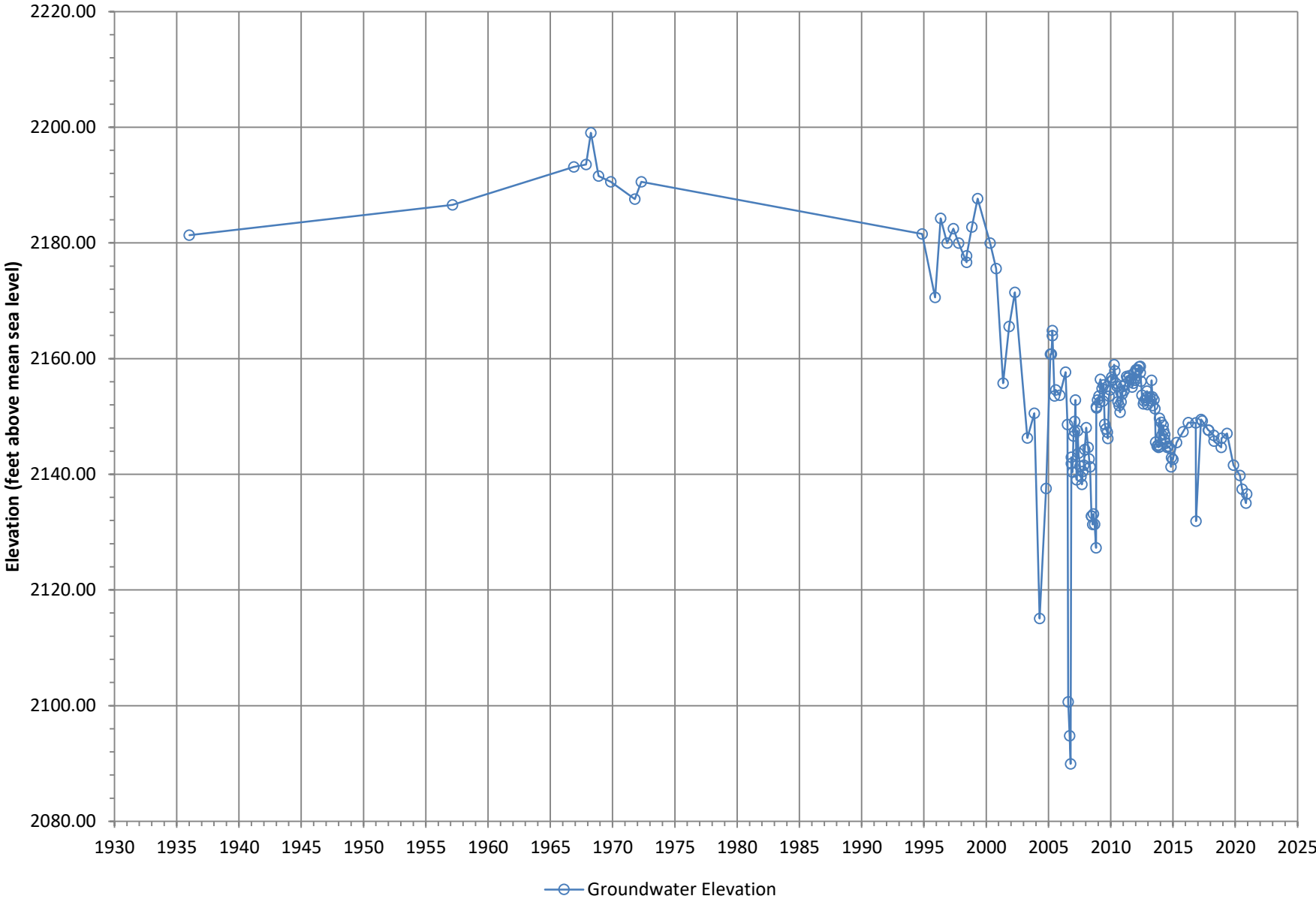
Groundwater Elevation at MCM Poultry Ranch Well



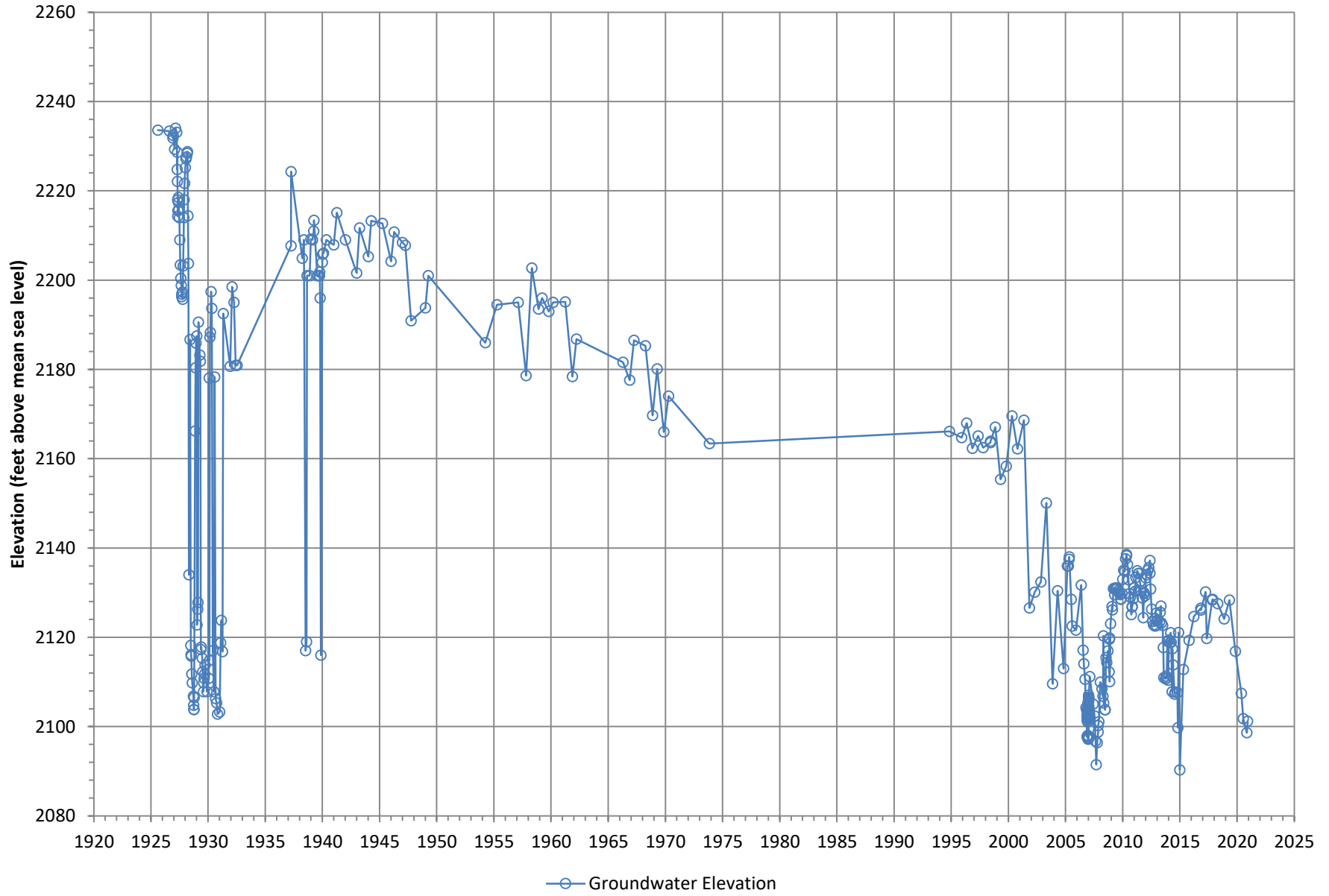


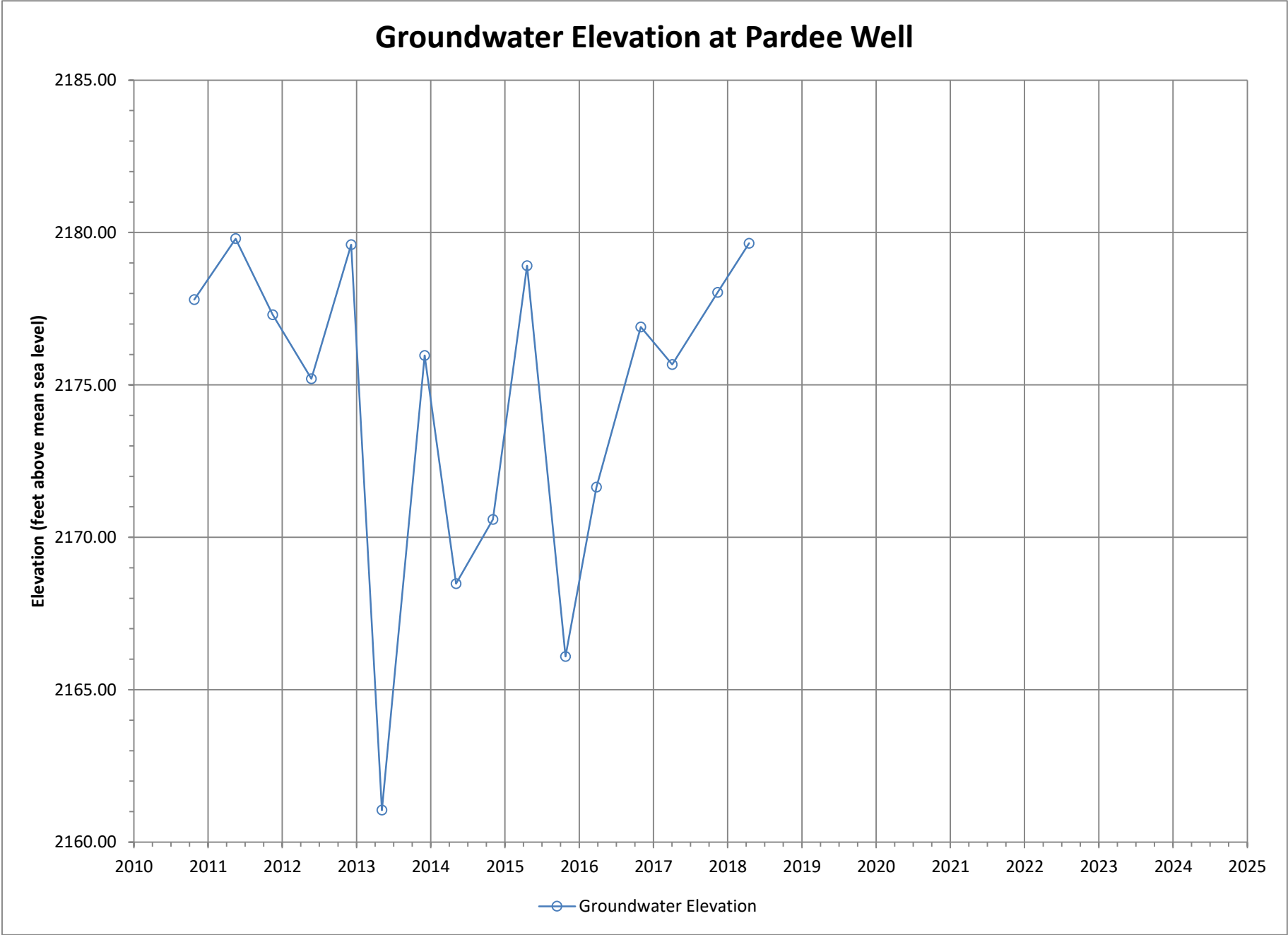


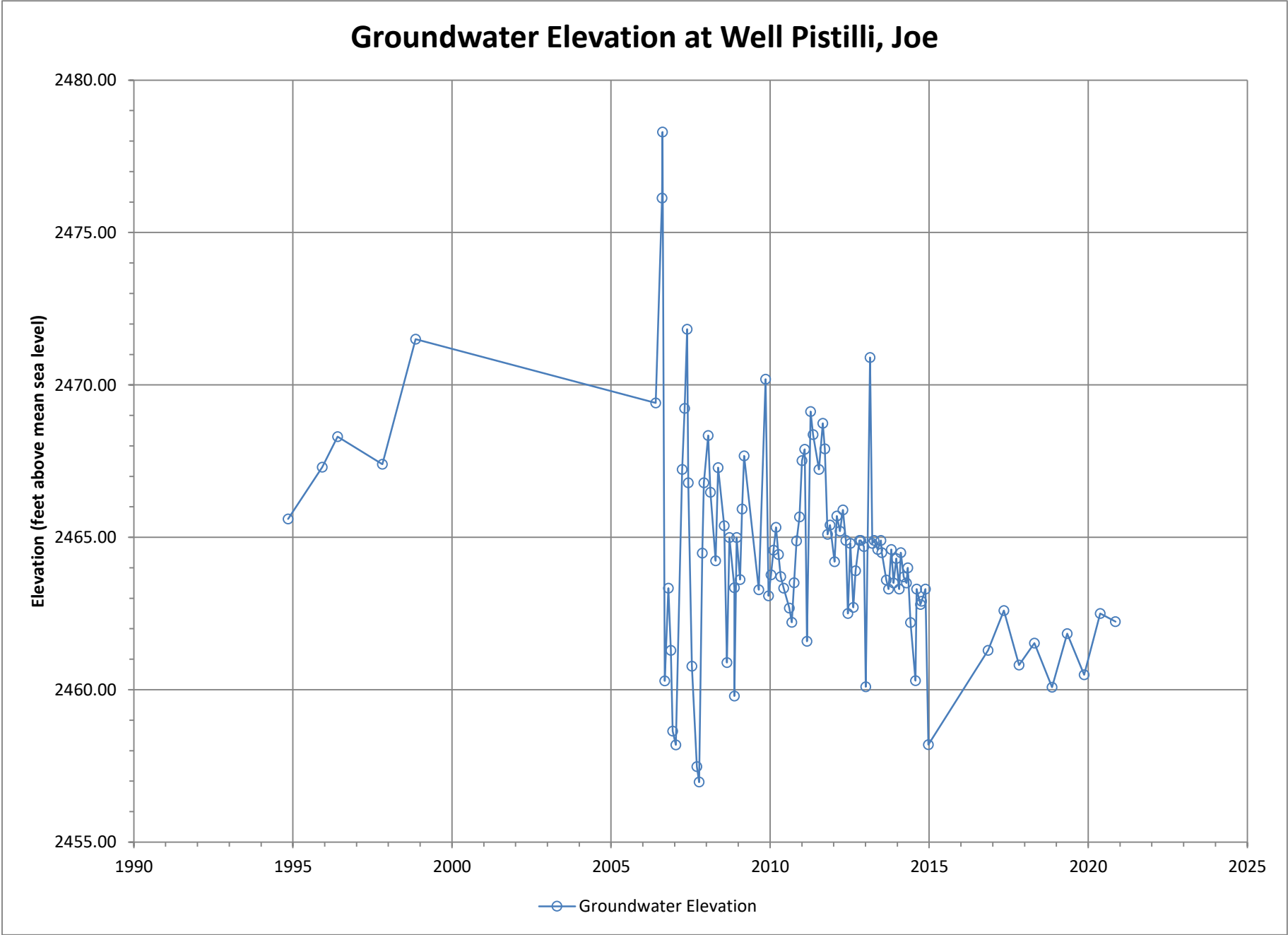
Groundwater Elevation at Well Singleton Ranch 5

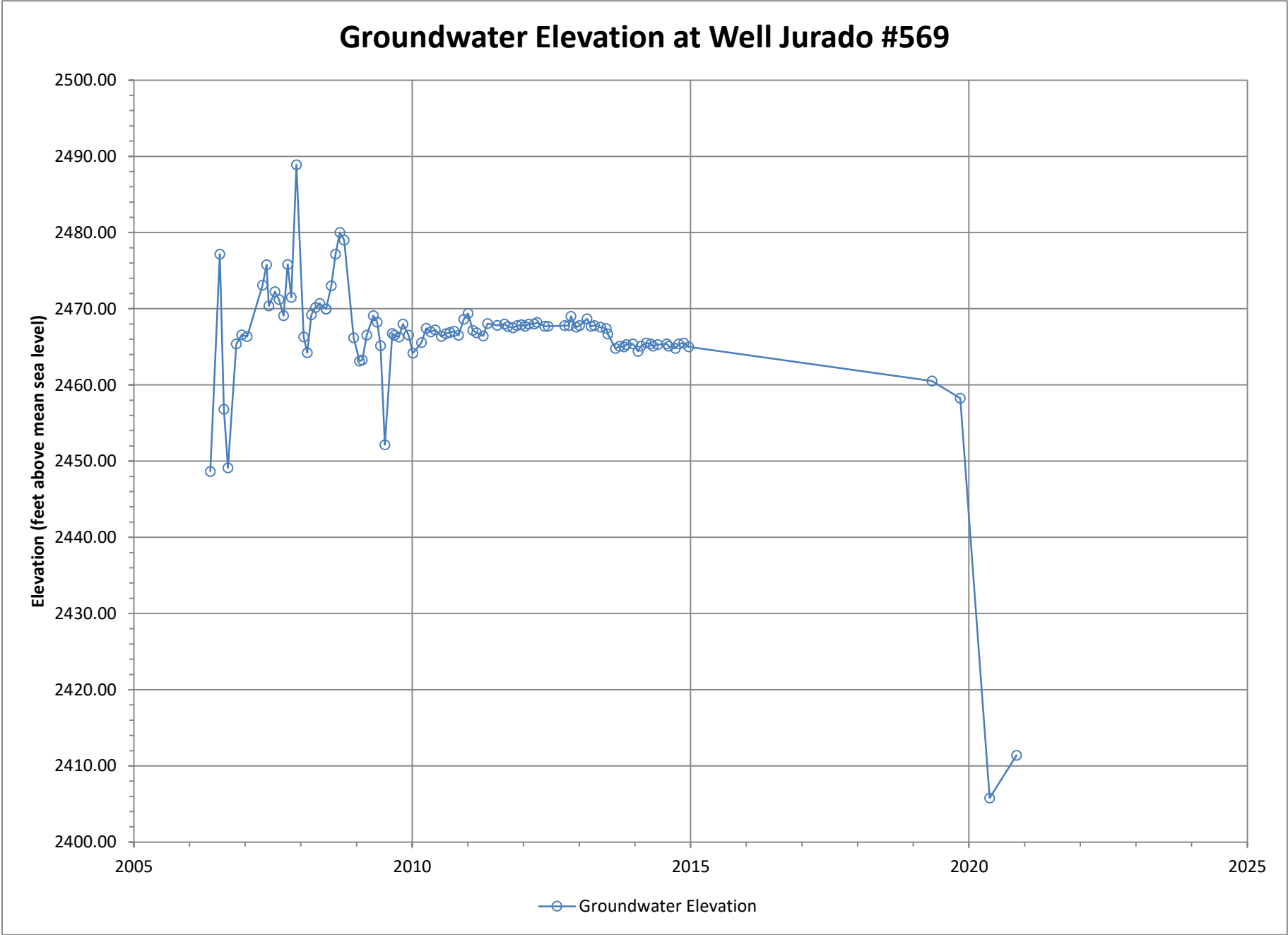


Groundwater Elevation at Well Singleton Ranch 7









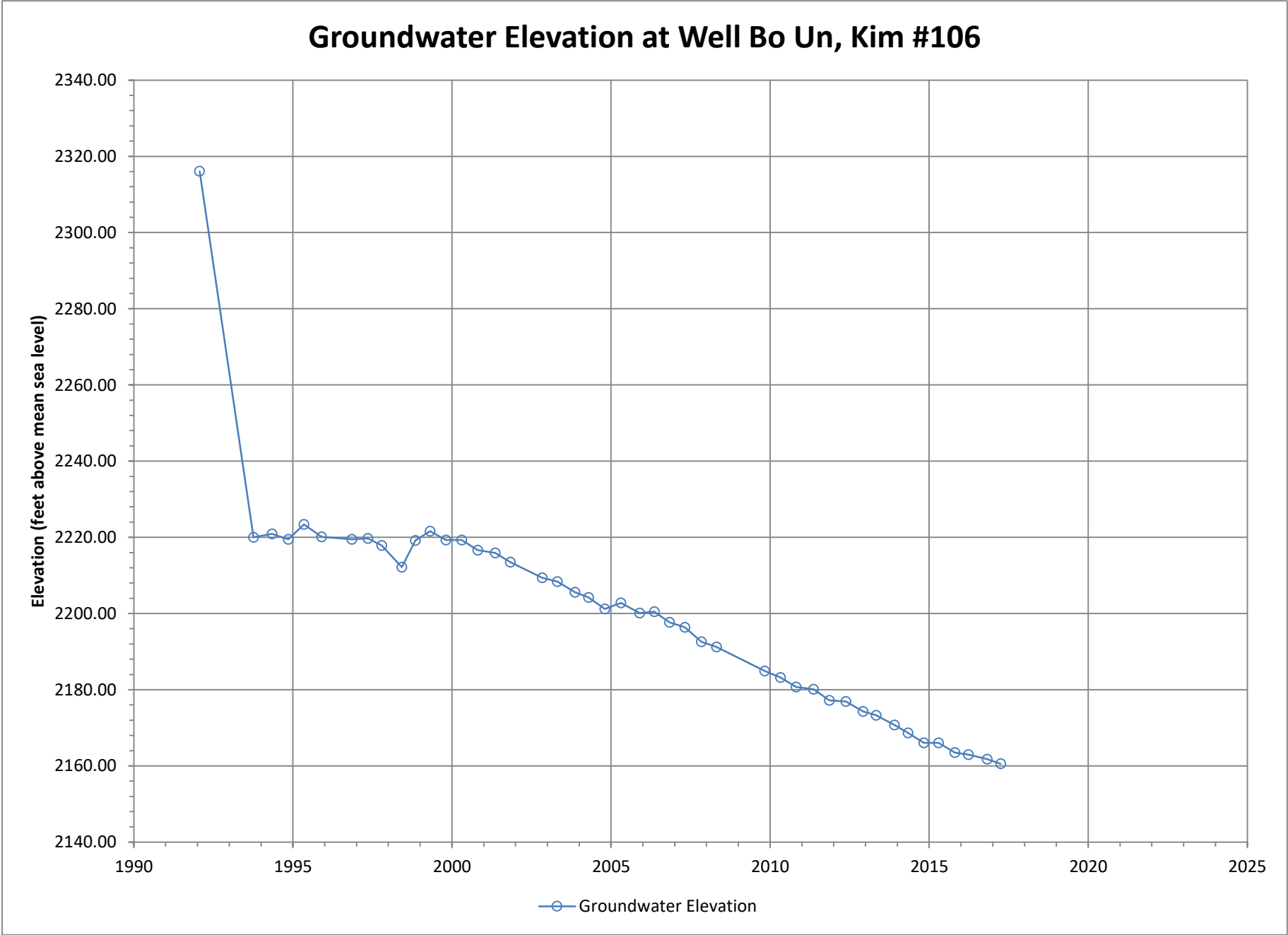
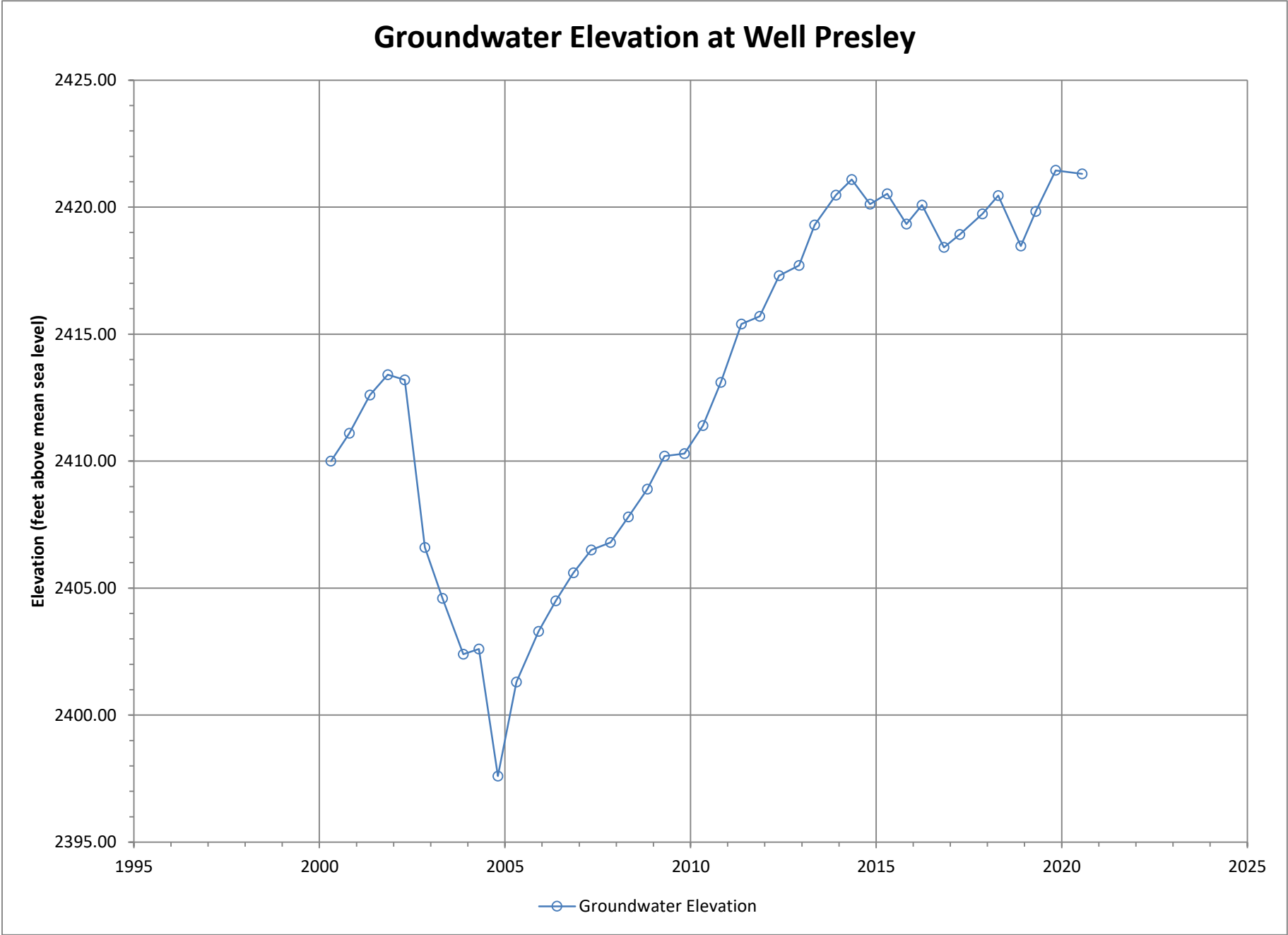


Figure M-6 1000



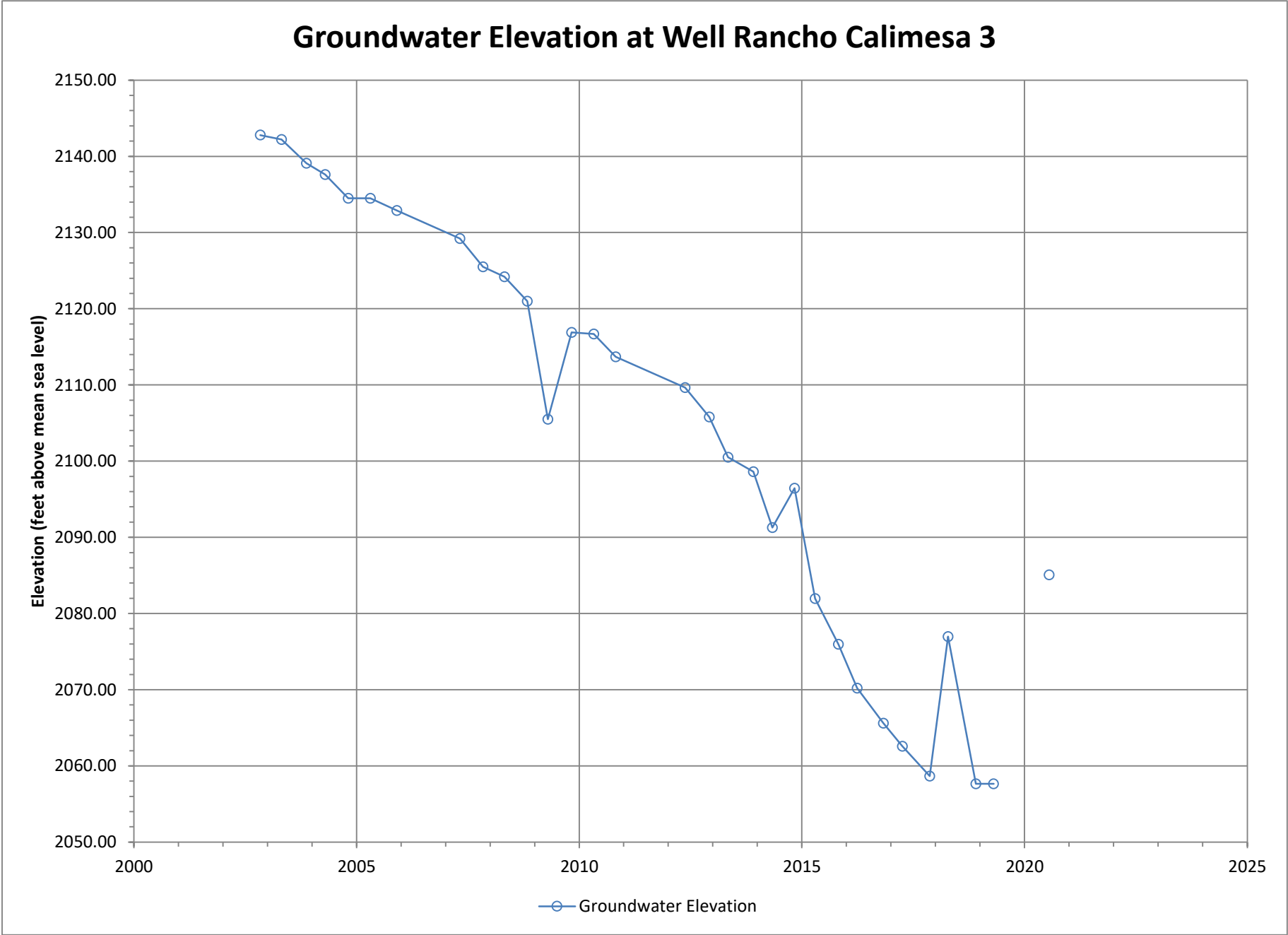
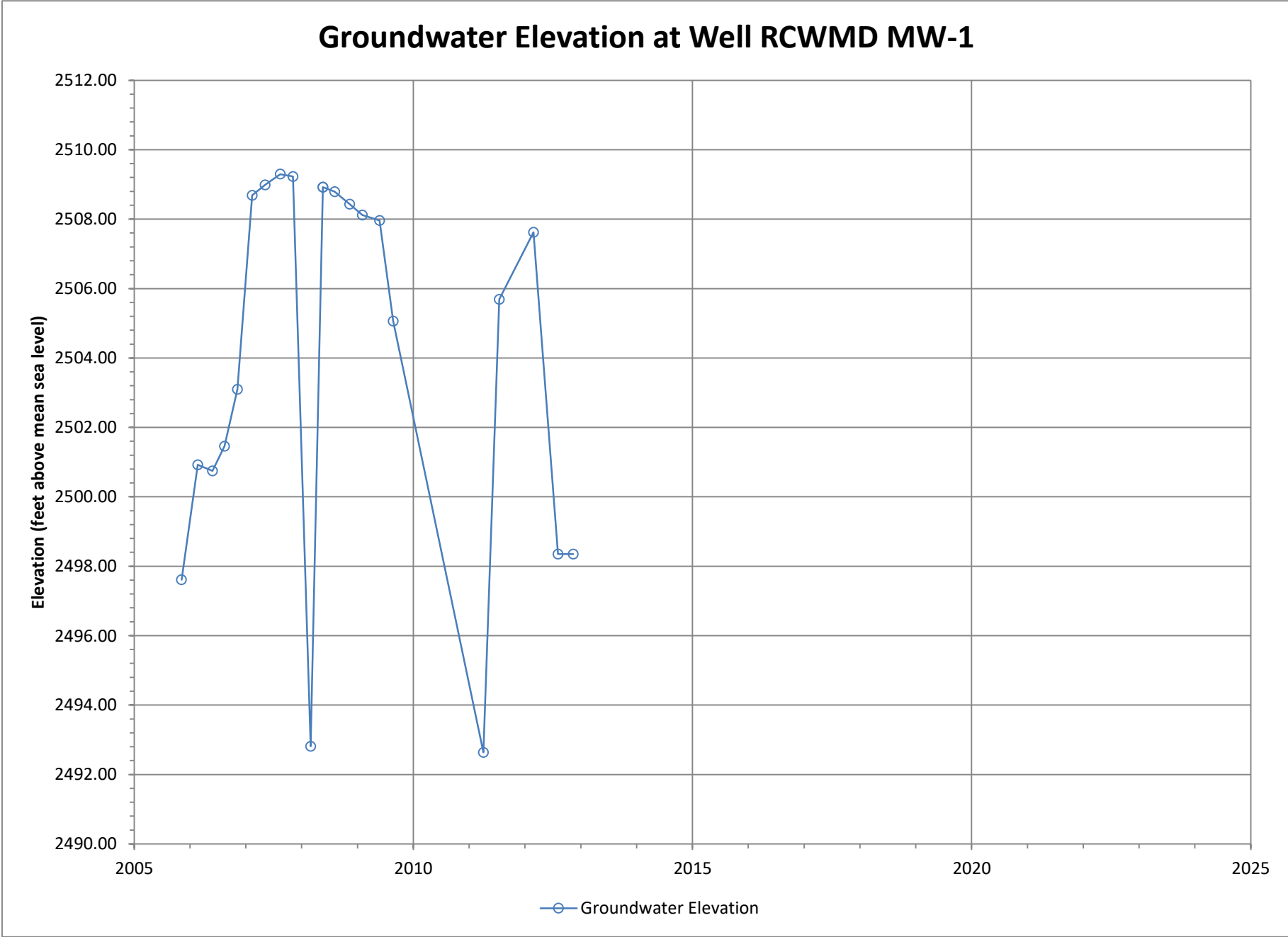


Figure M-6 1002



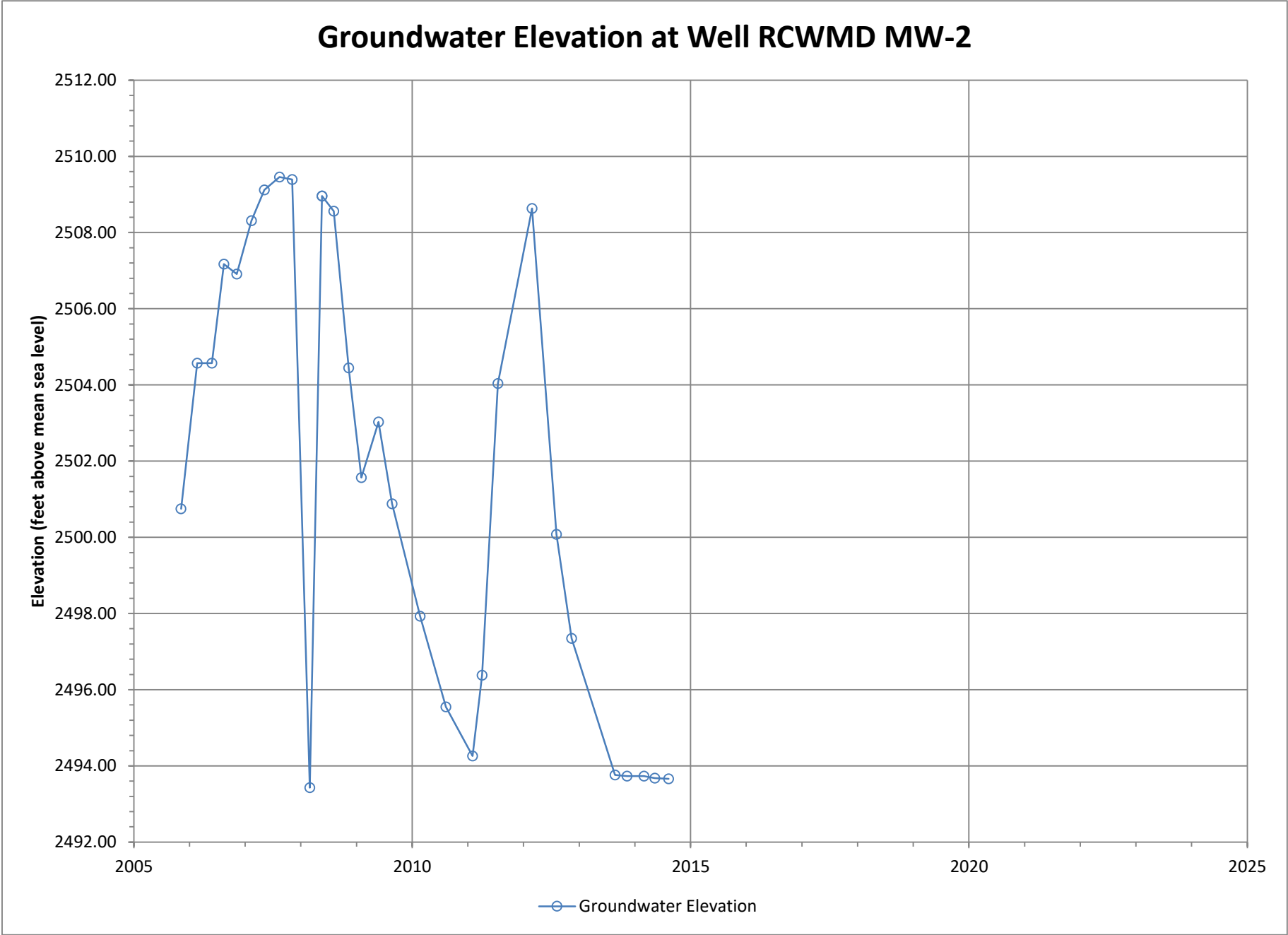


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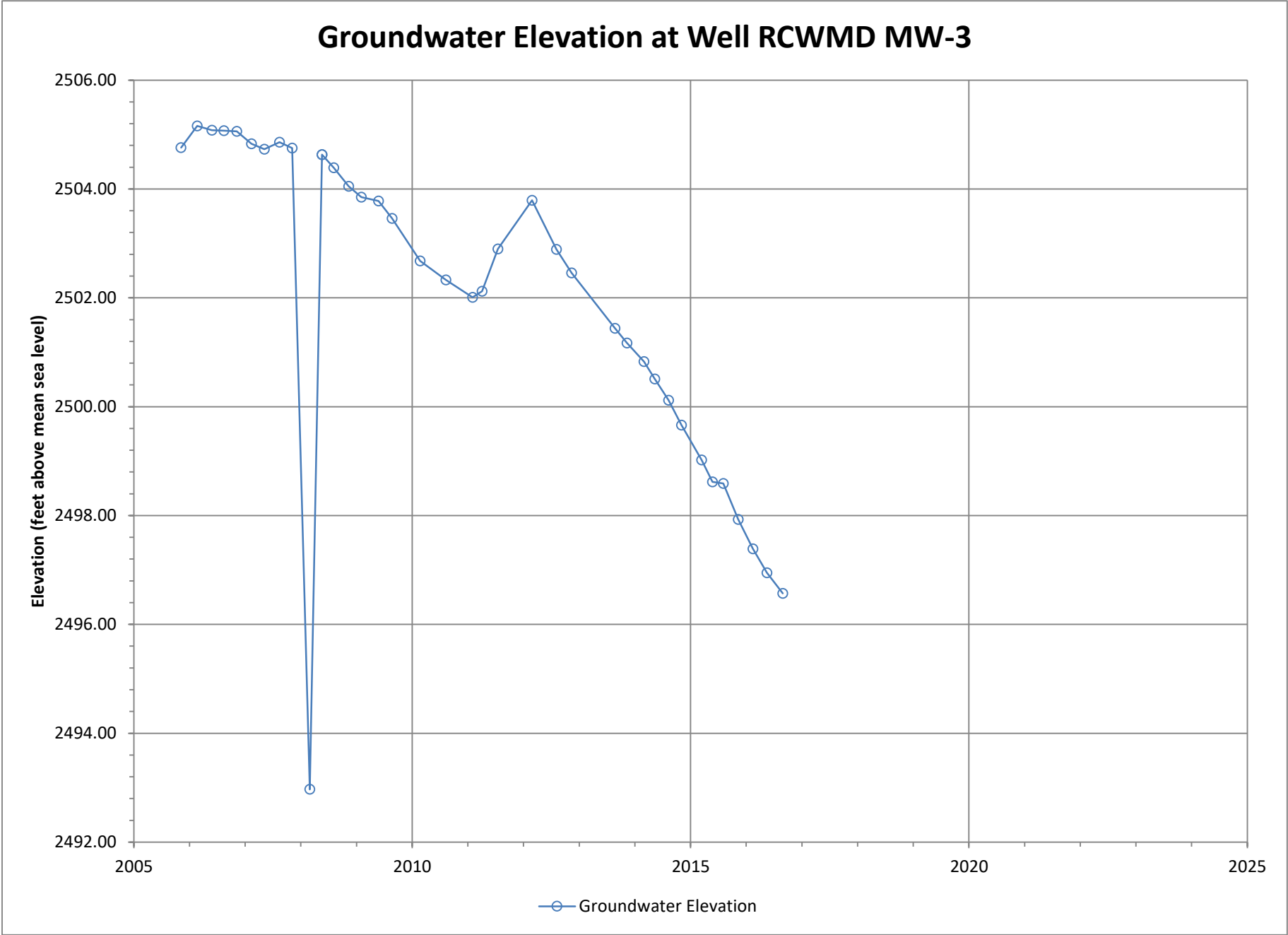
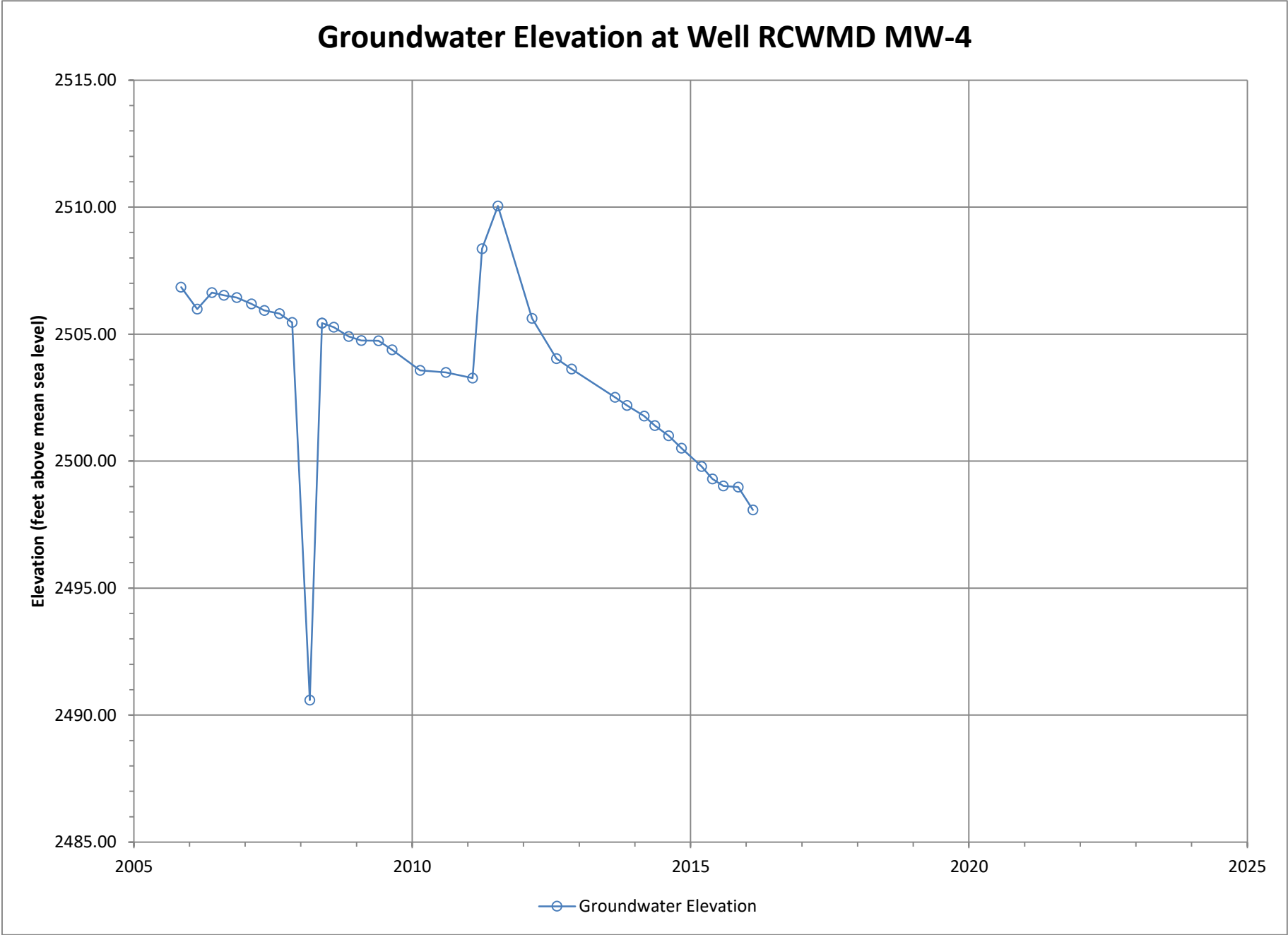


Figure M-6 1005



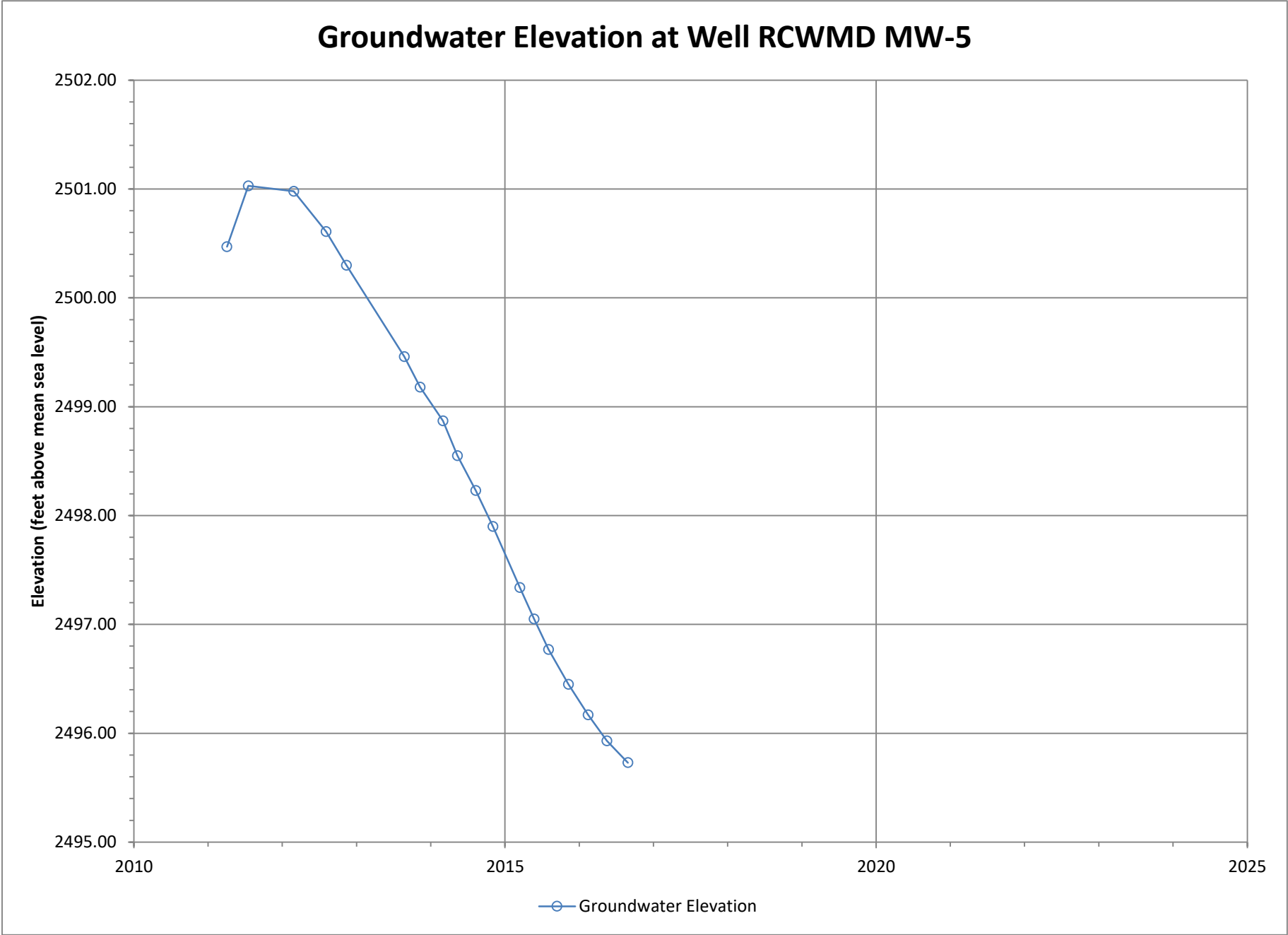
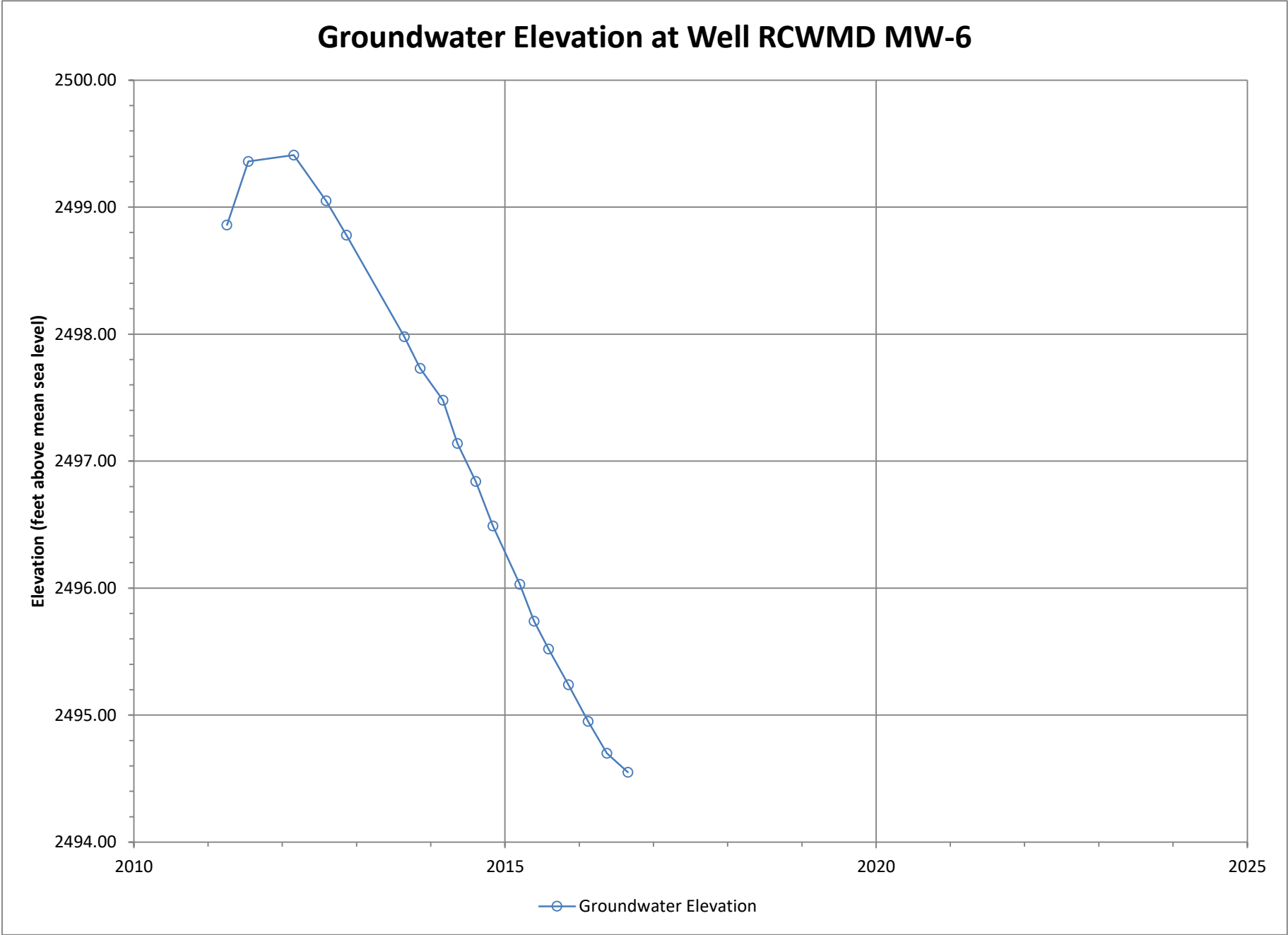
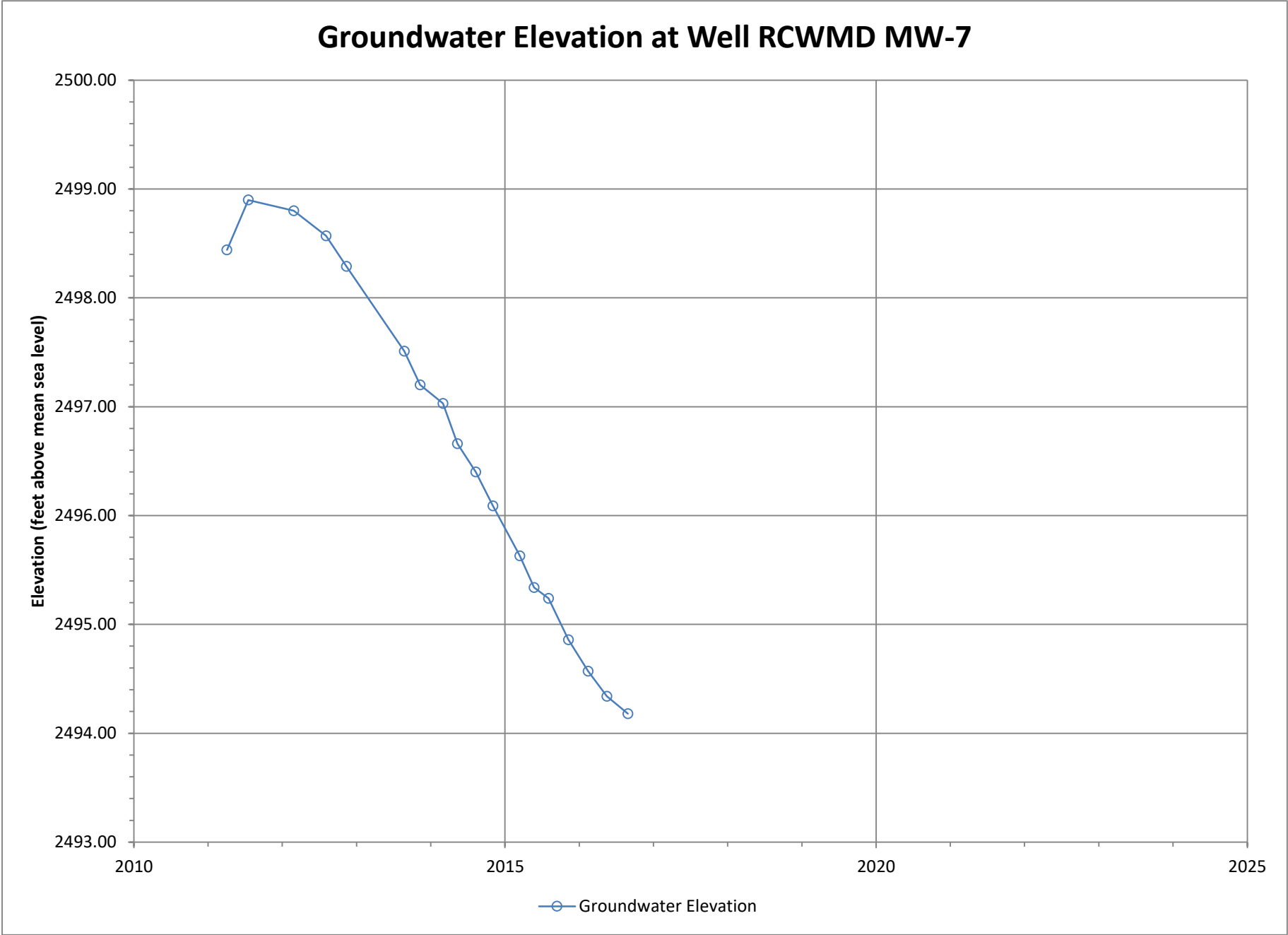


Figure M-6 1007





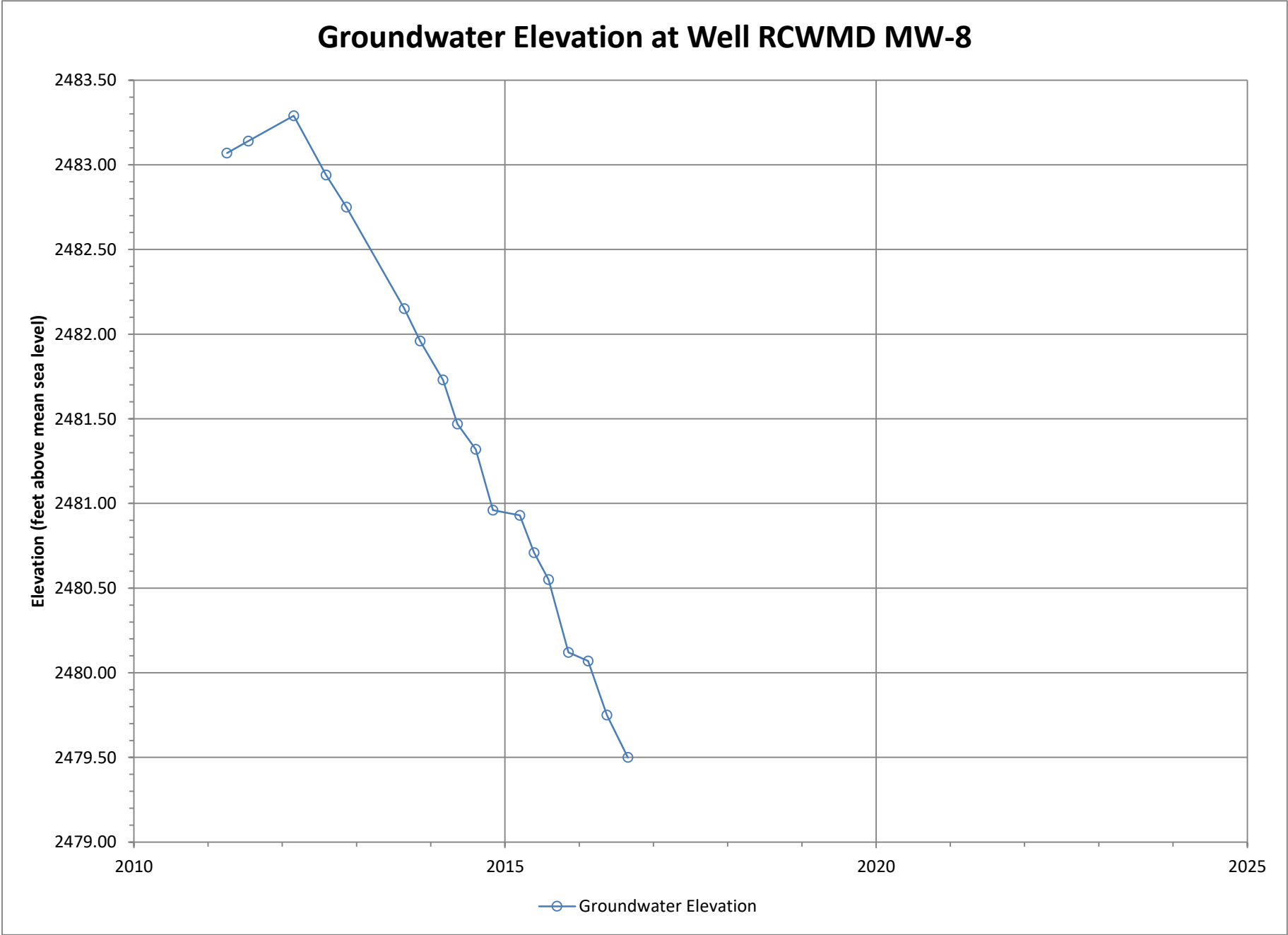


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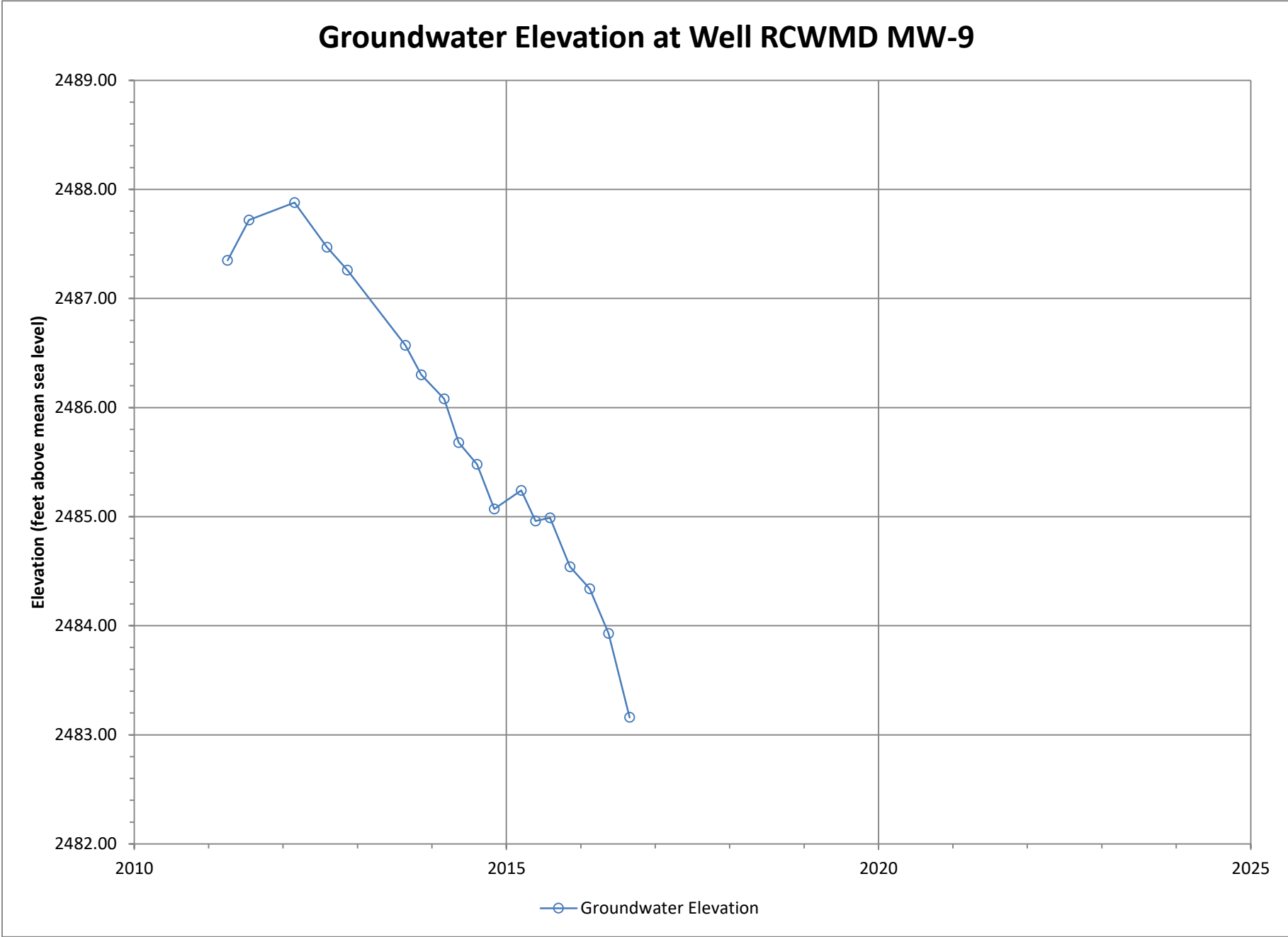
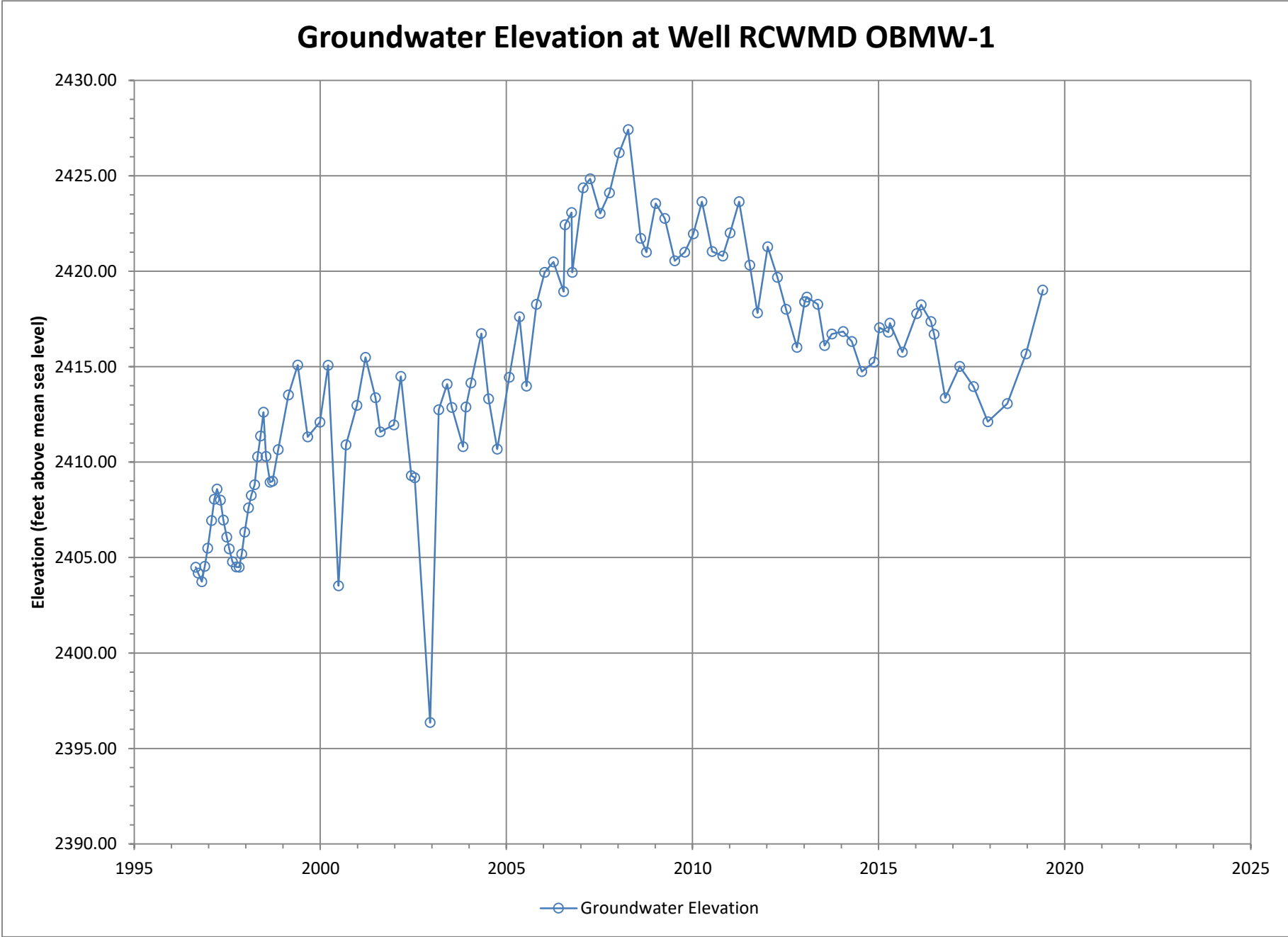
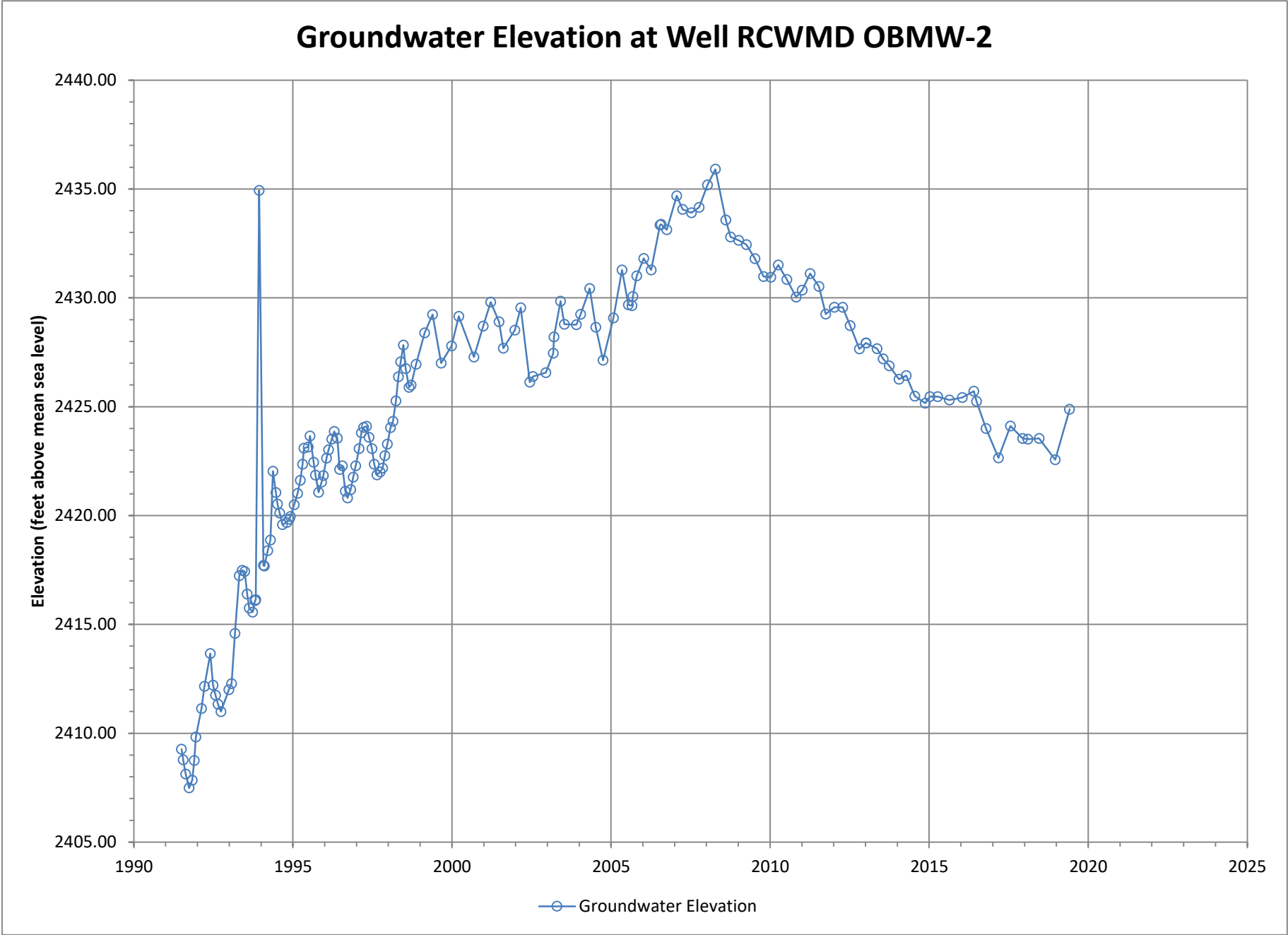
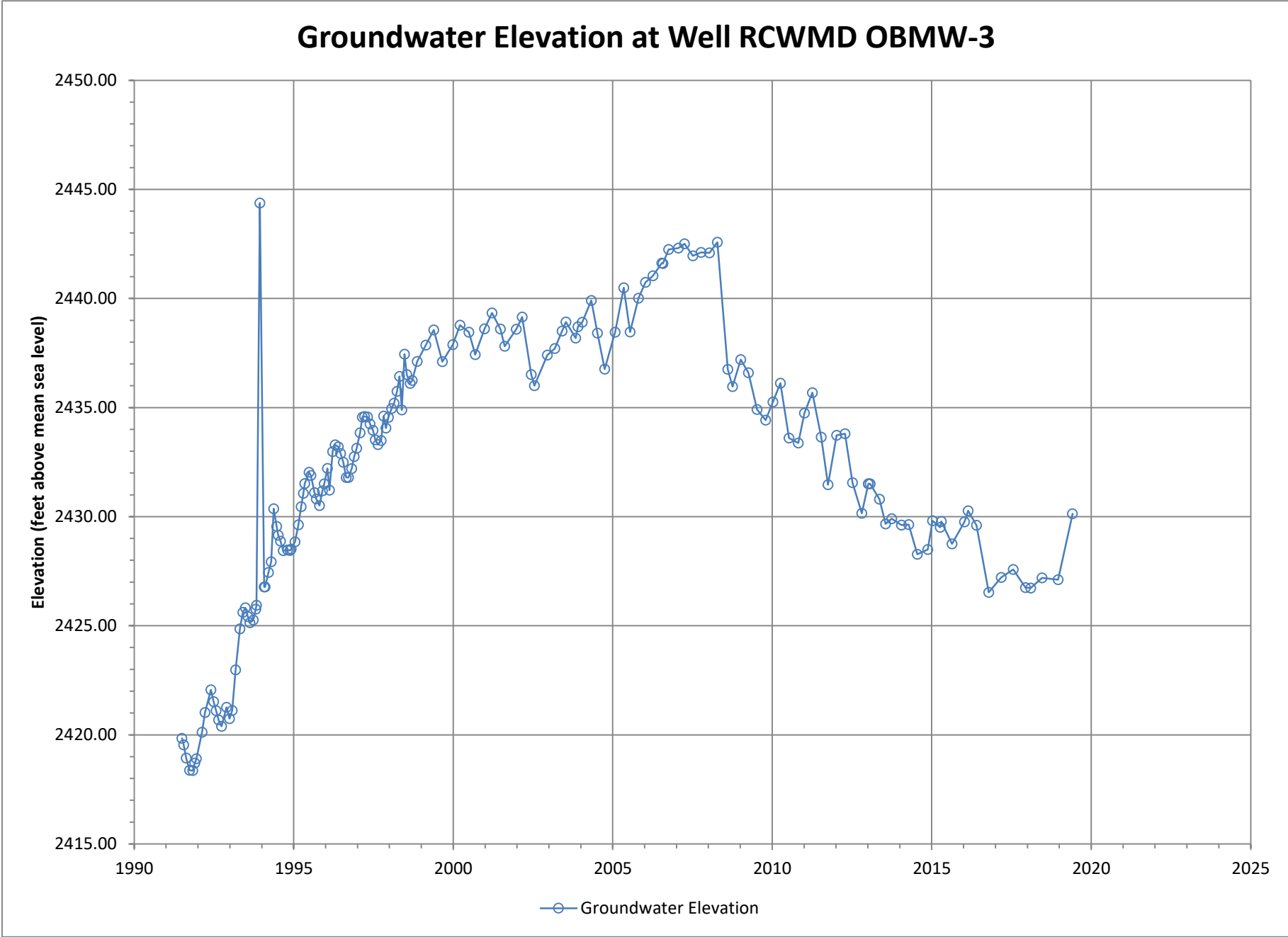
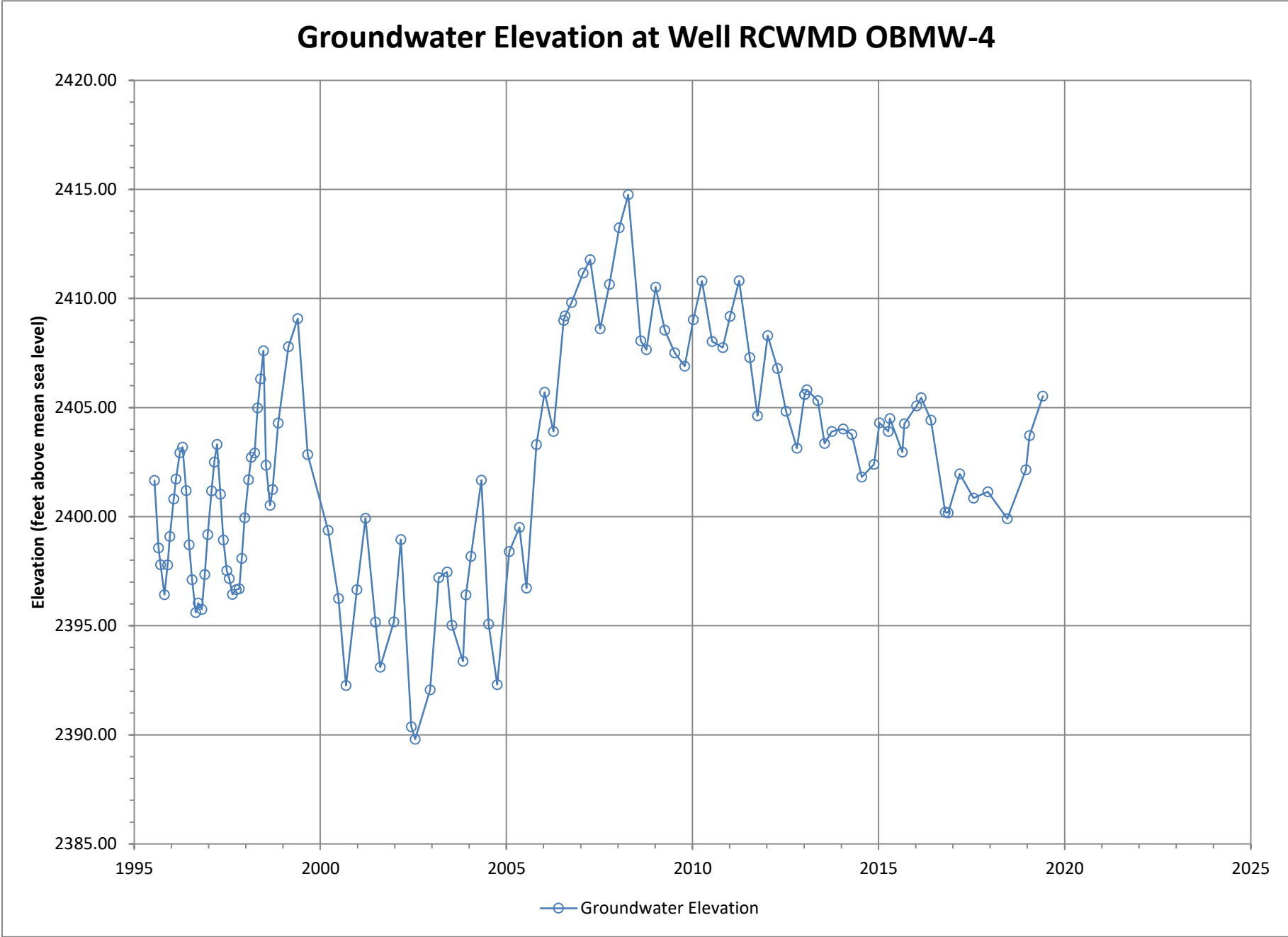


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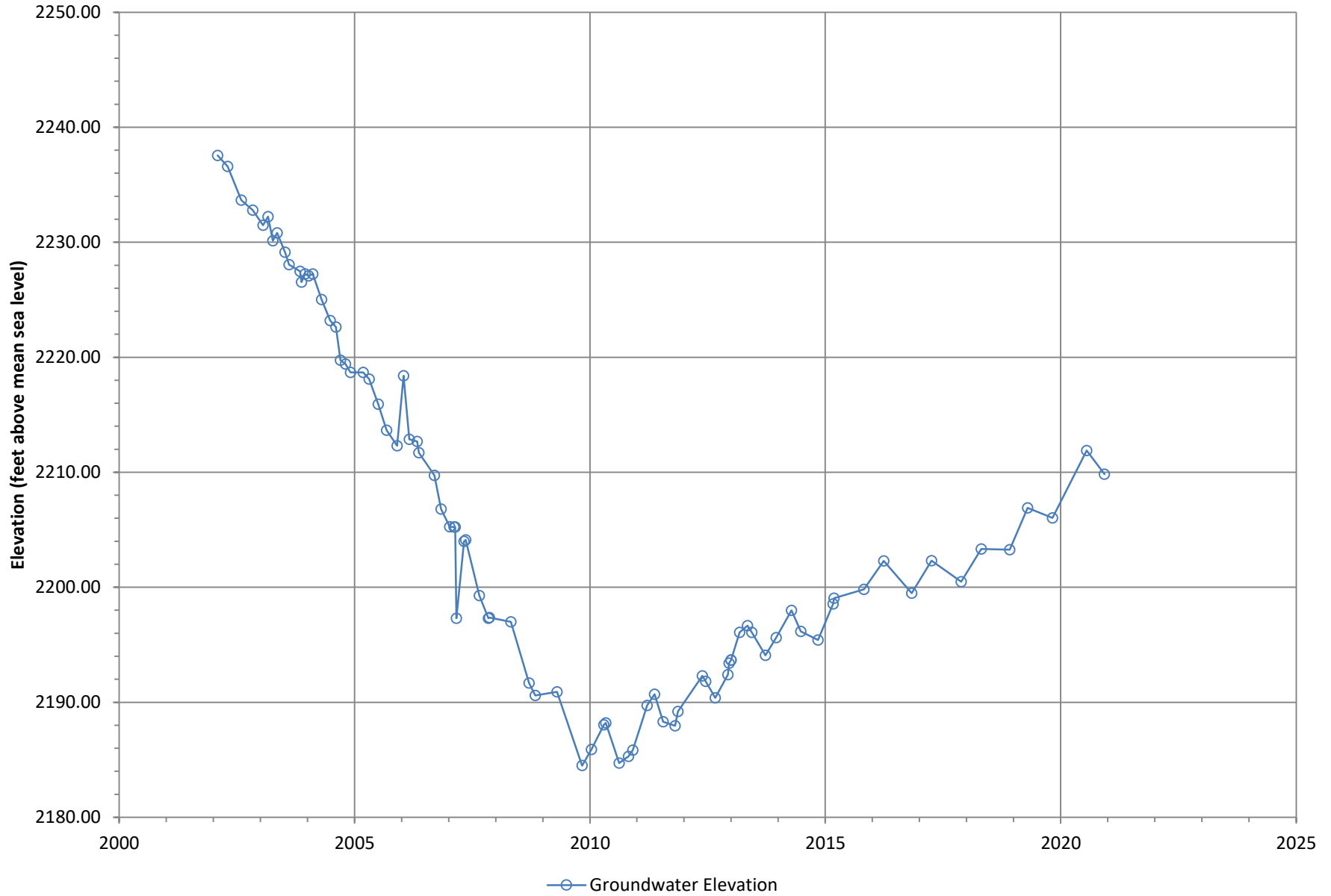


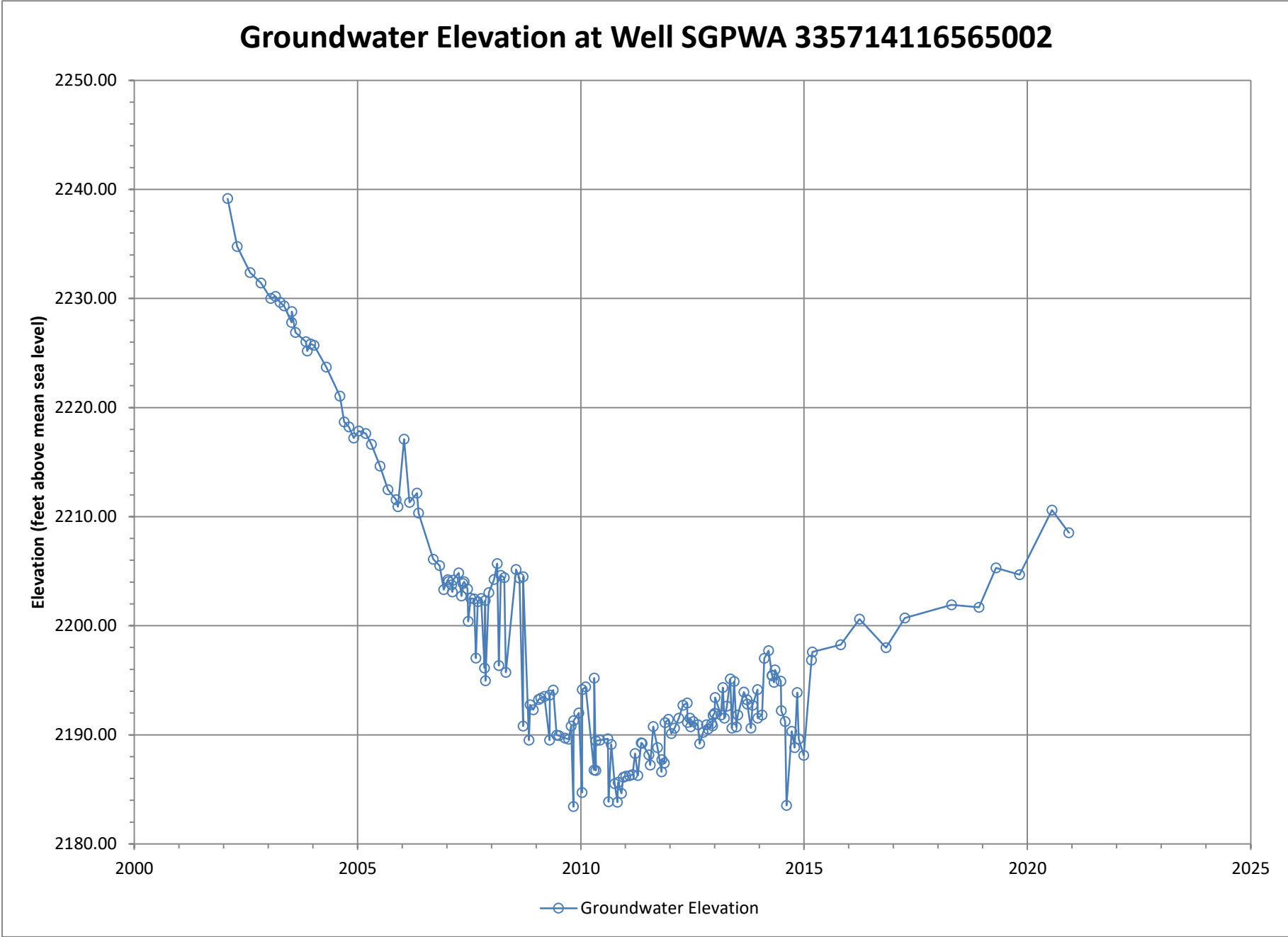




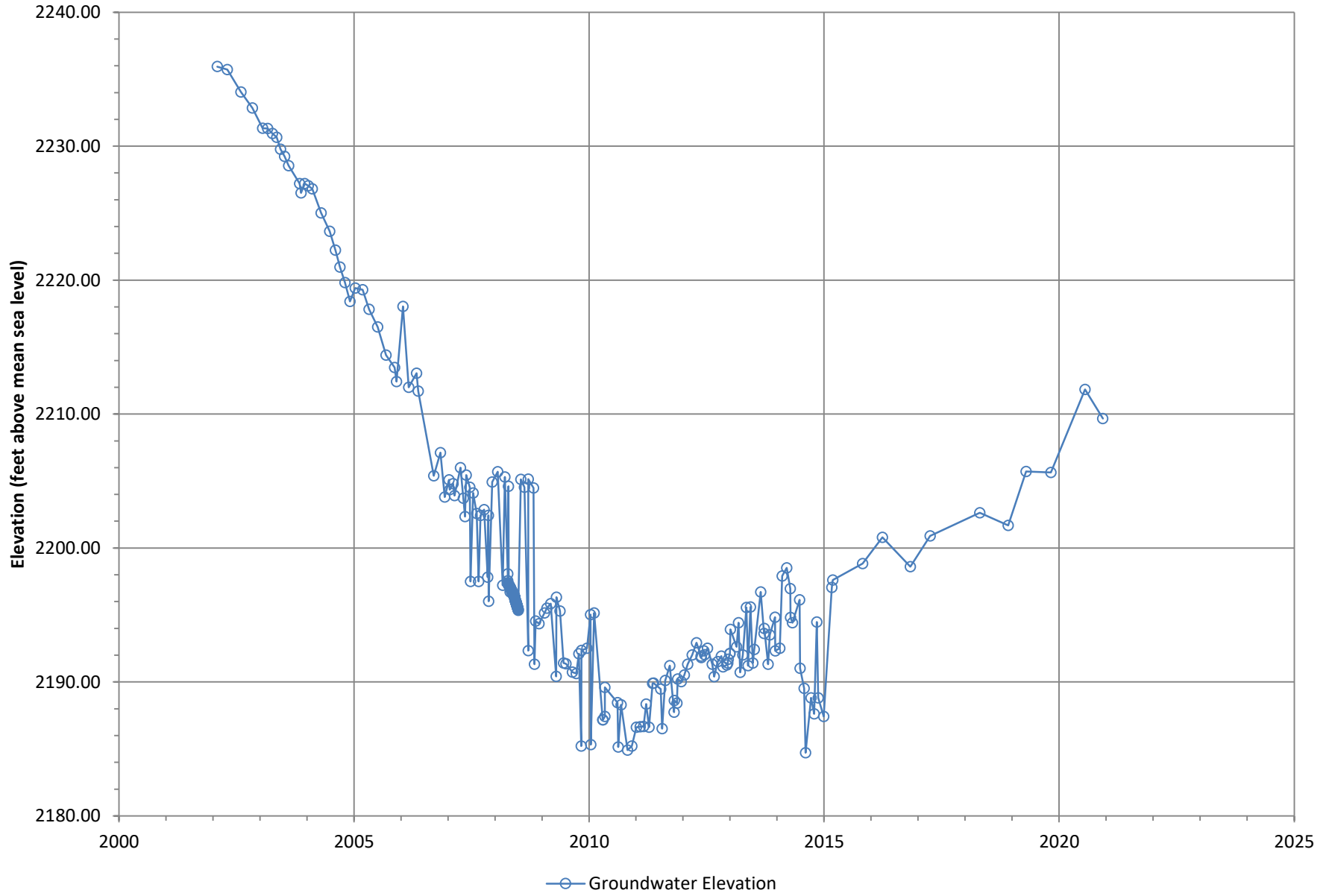


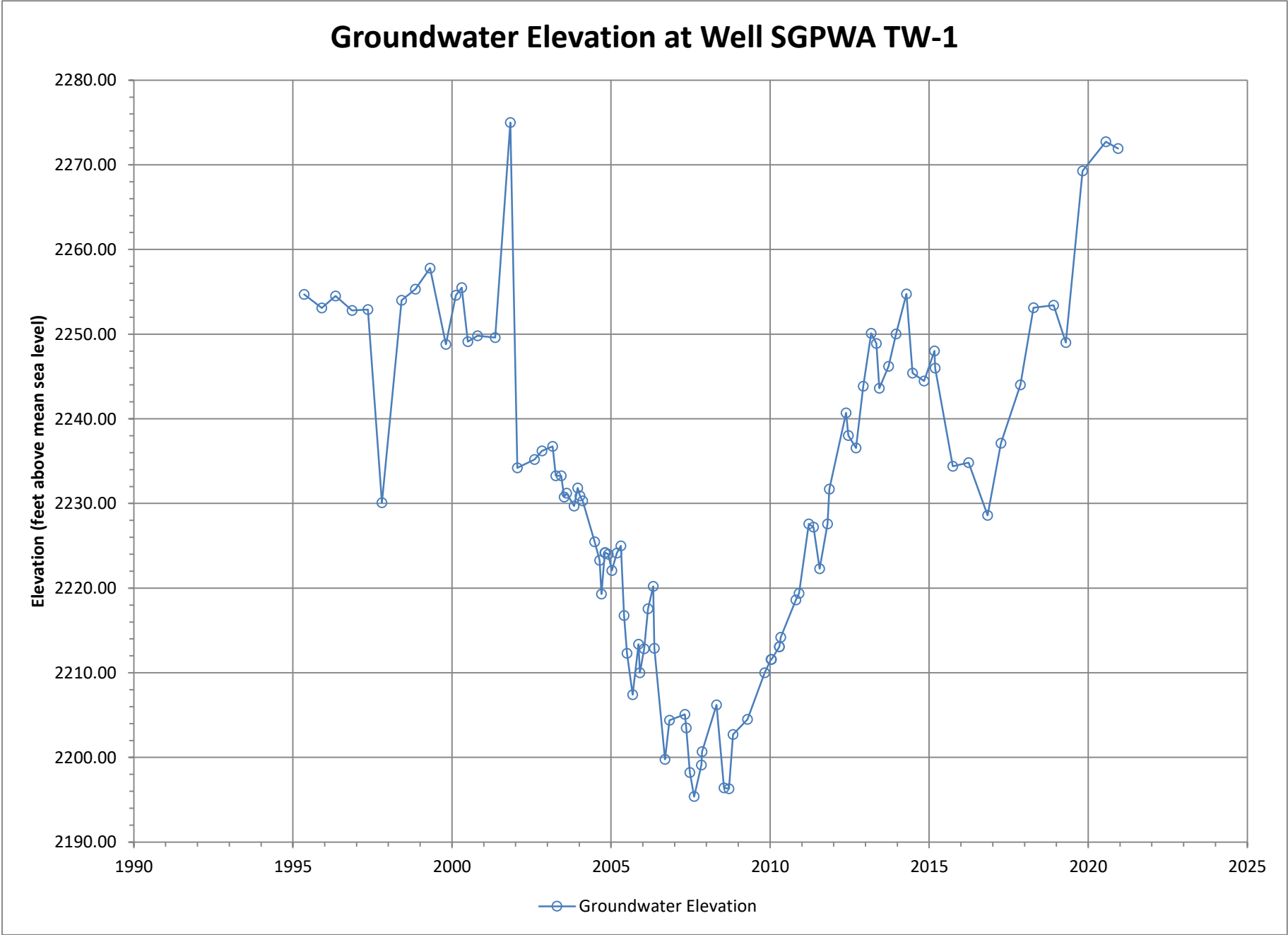
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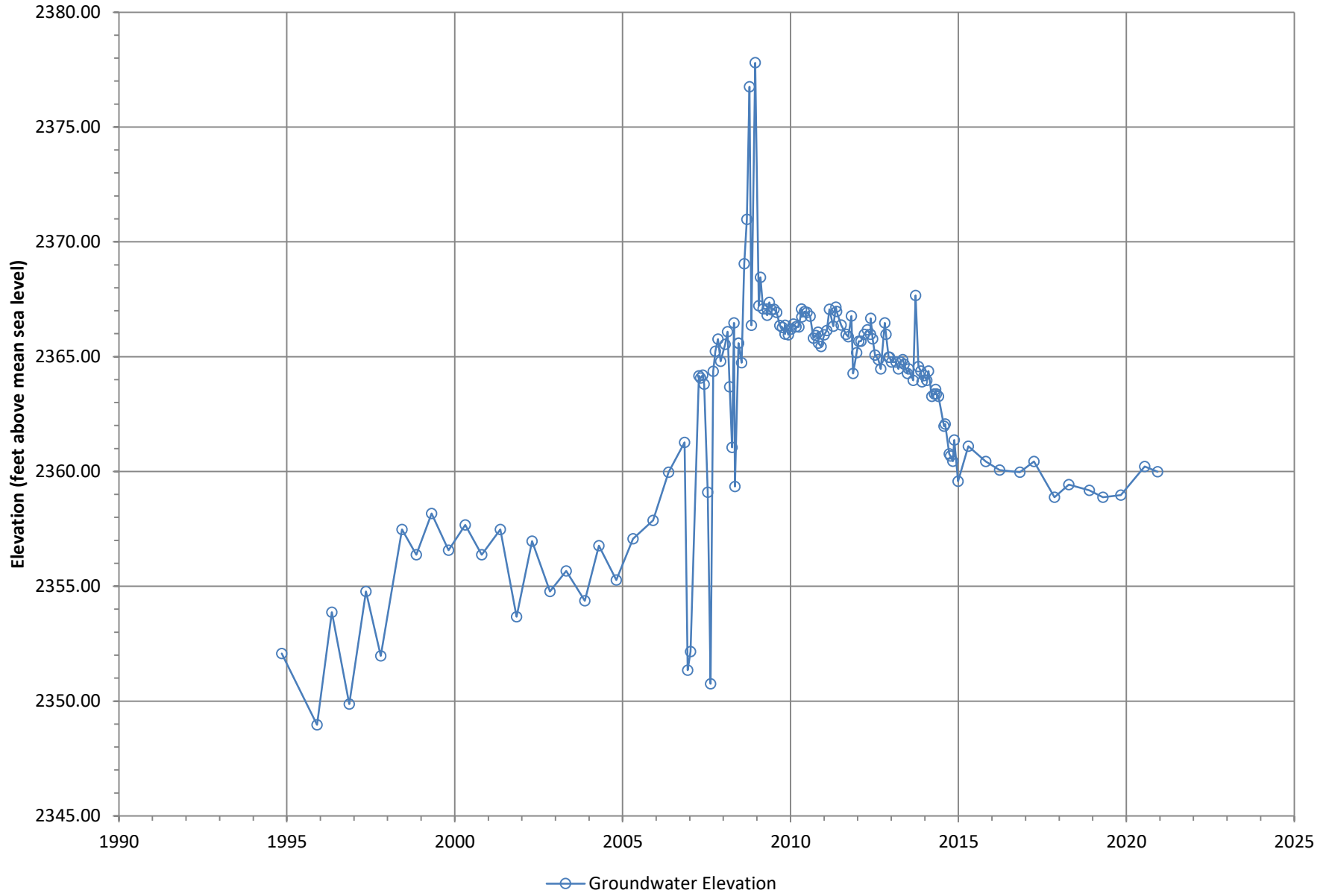


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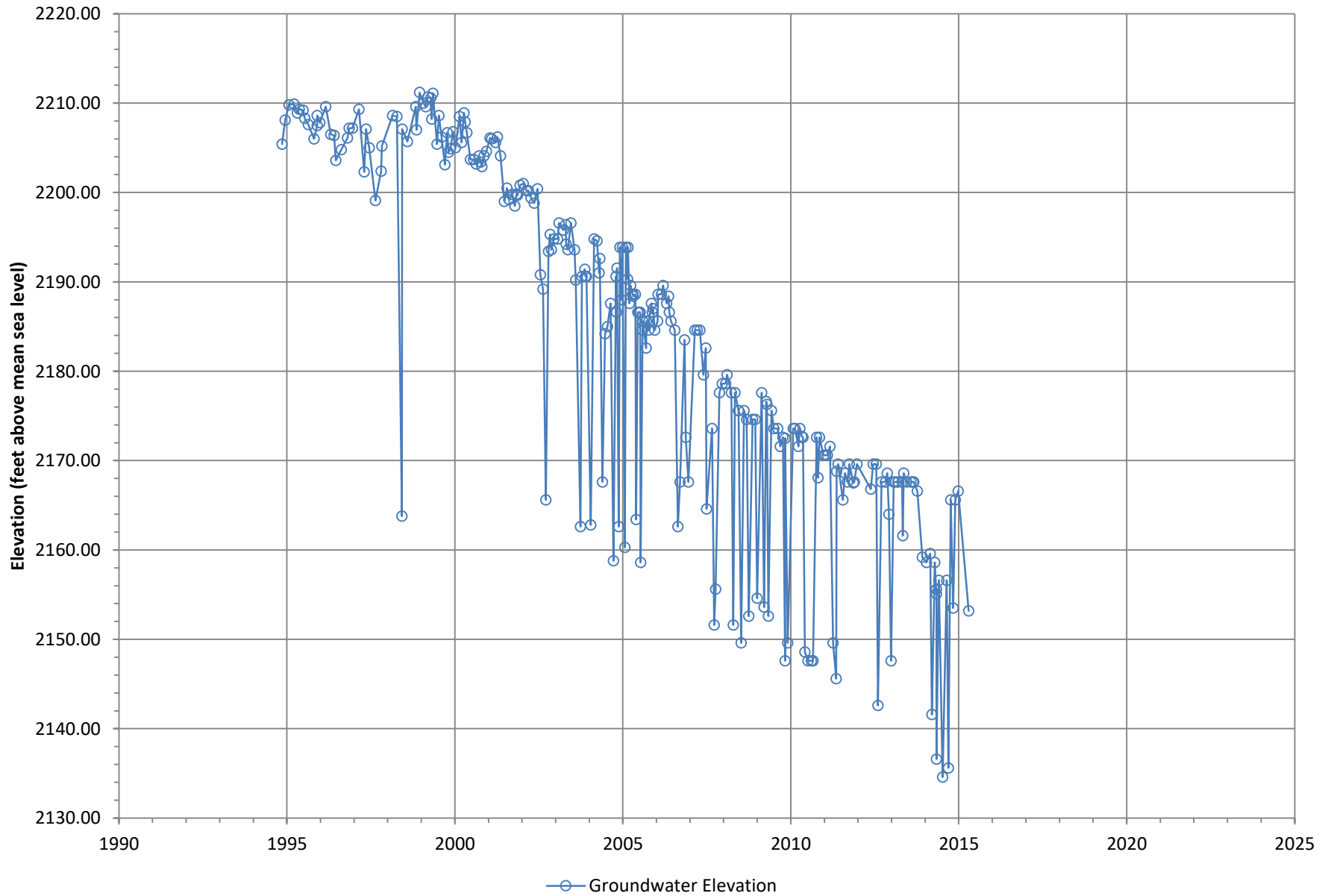




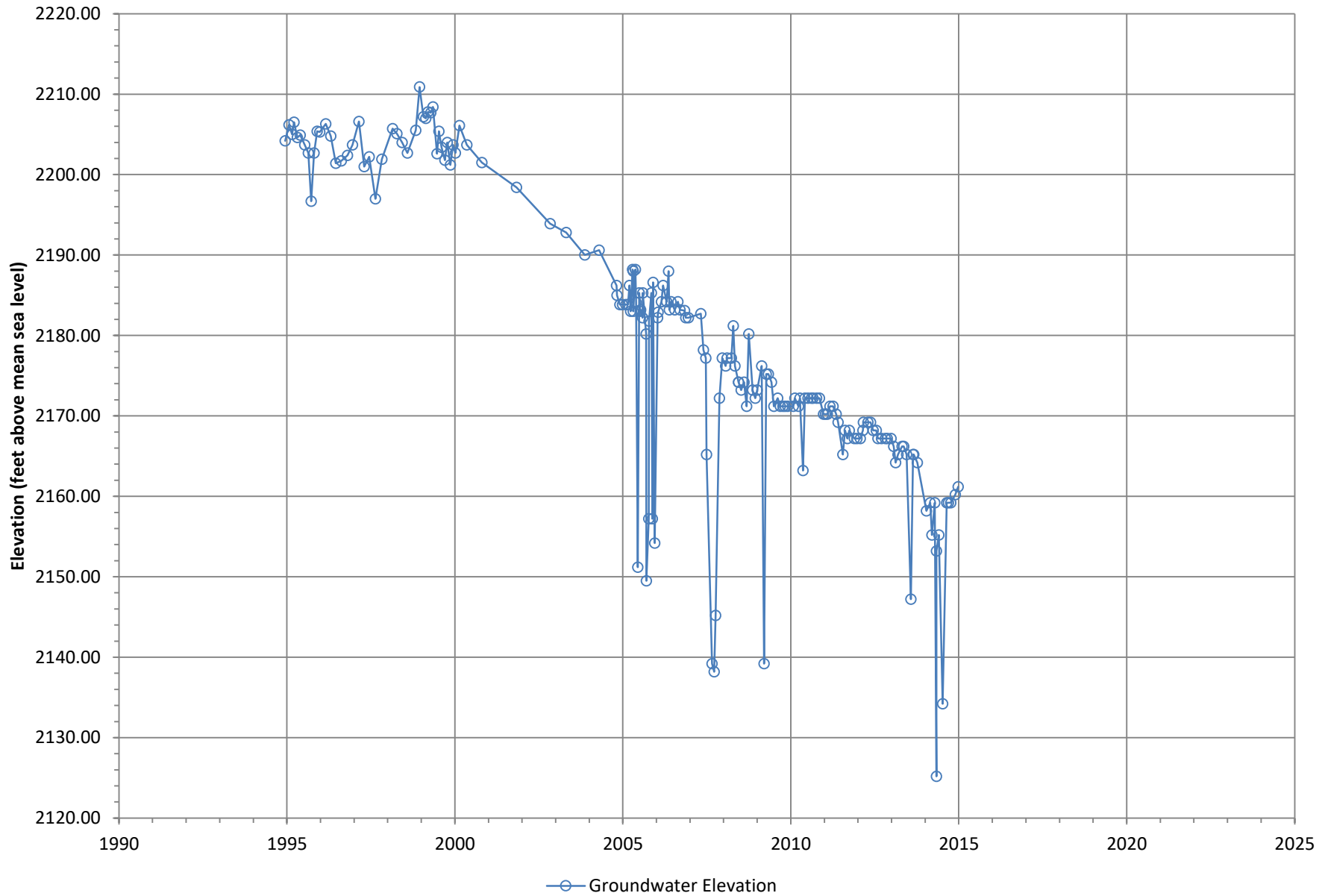
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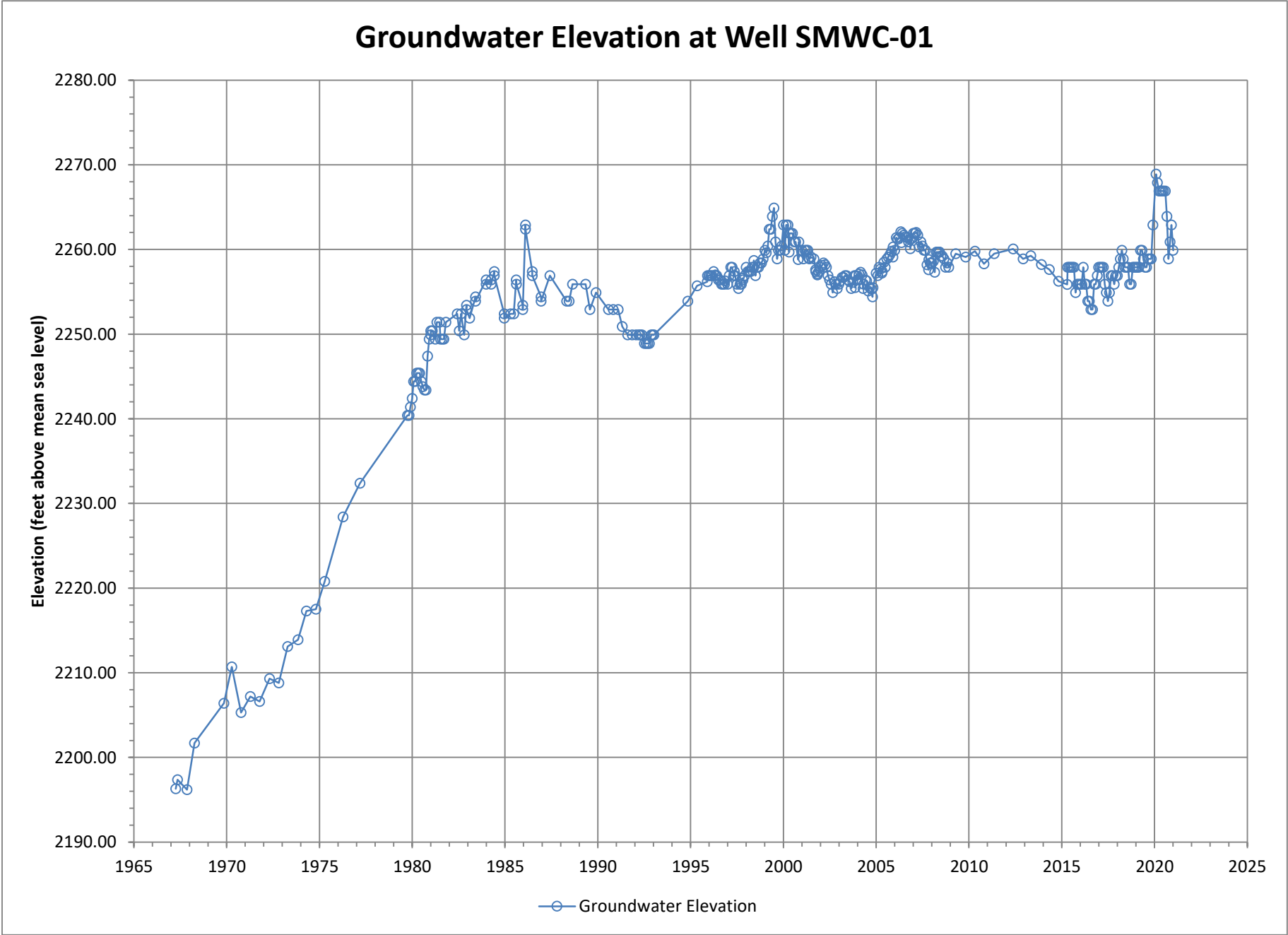


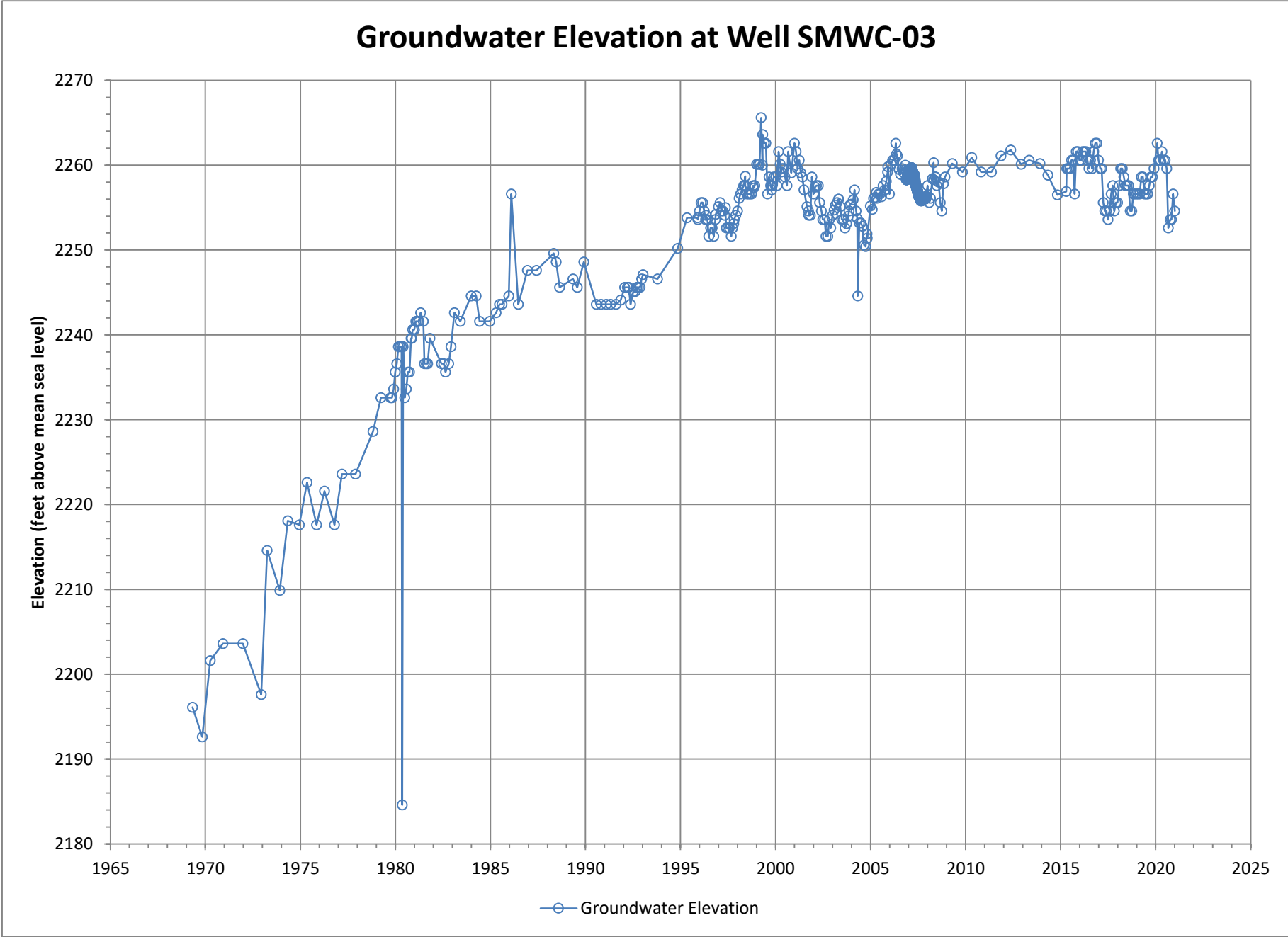
Groundwater Elevation at Well Sharondale Mesa Owners Association #1

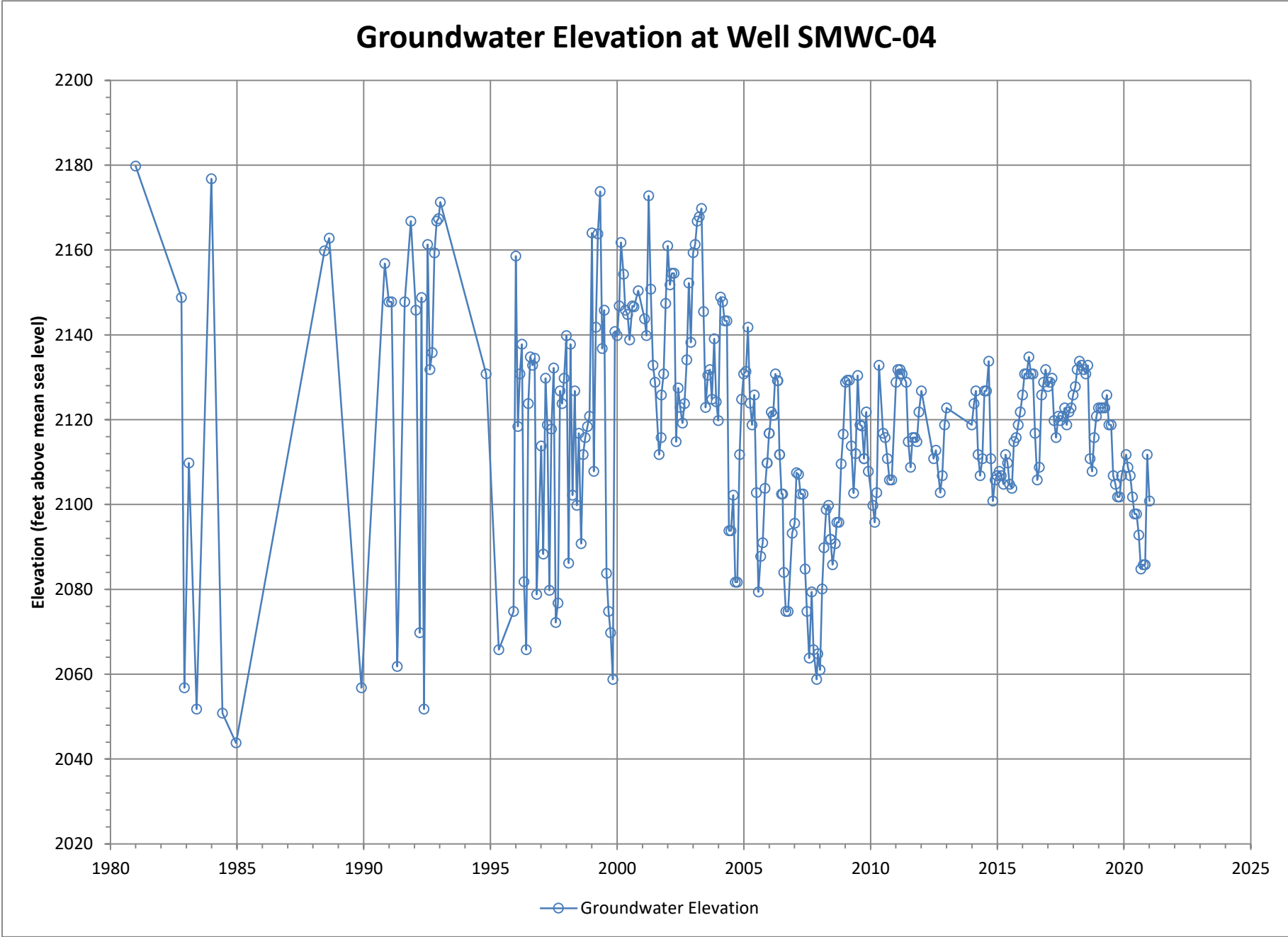


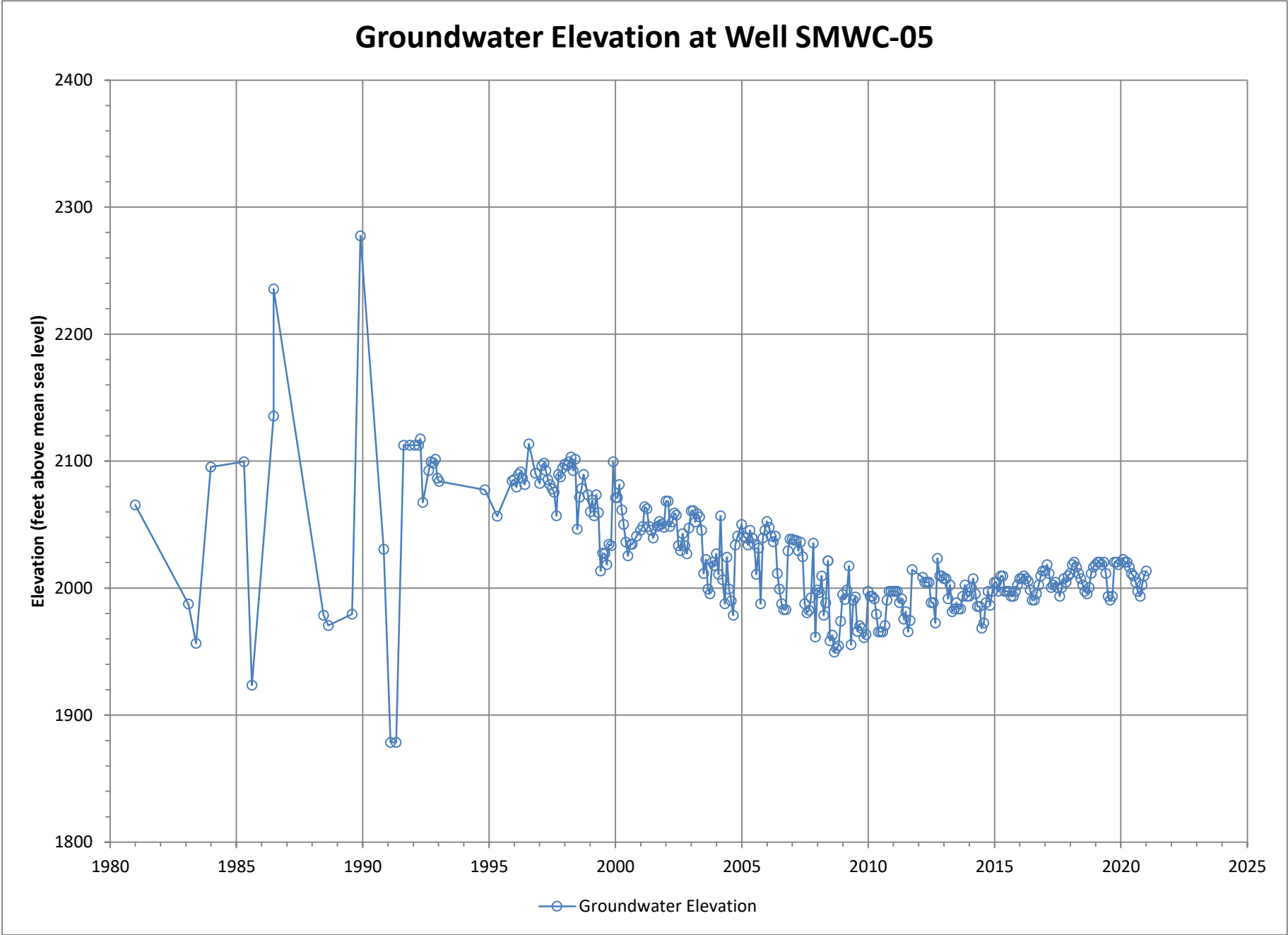
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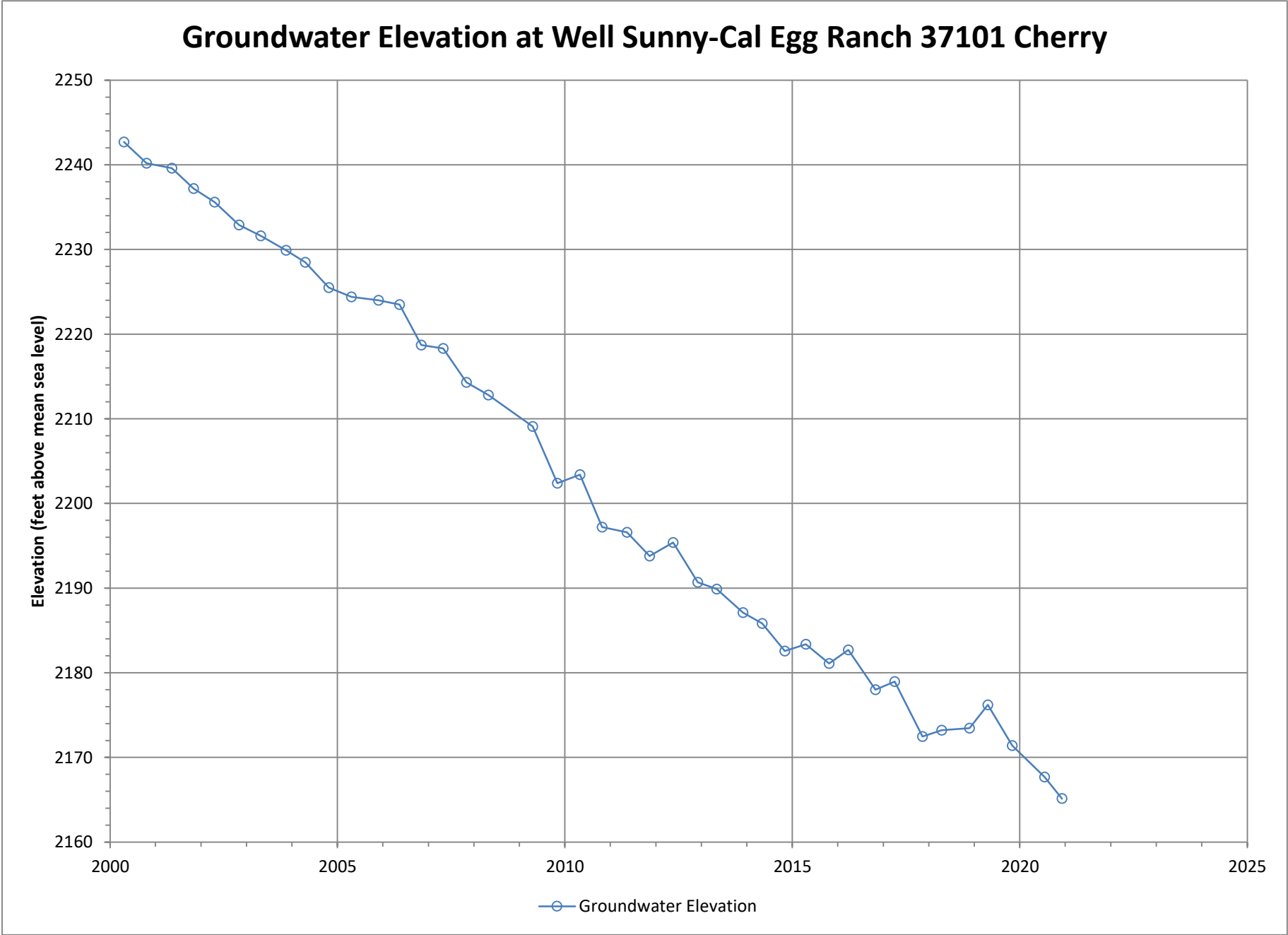












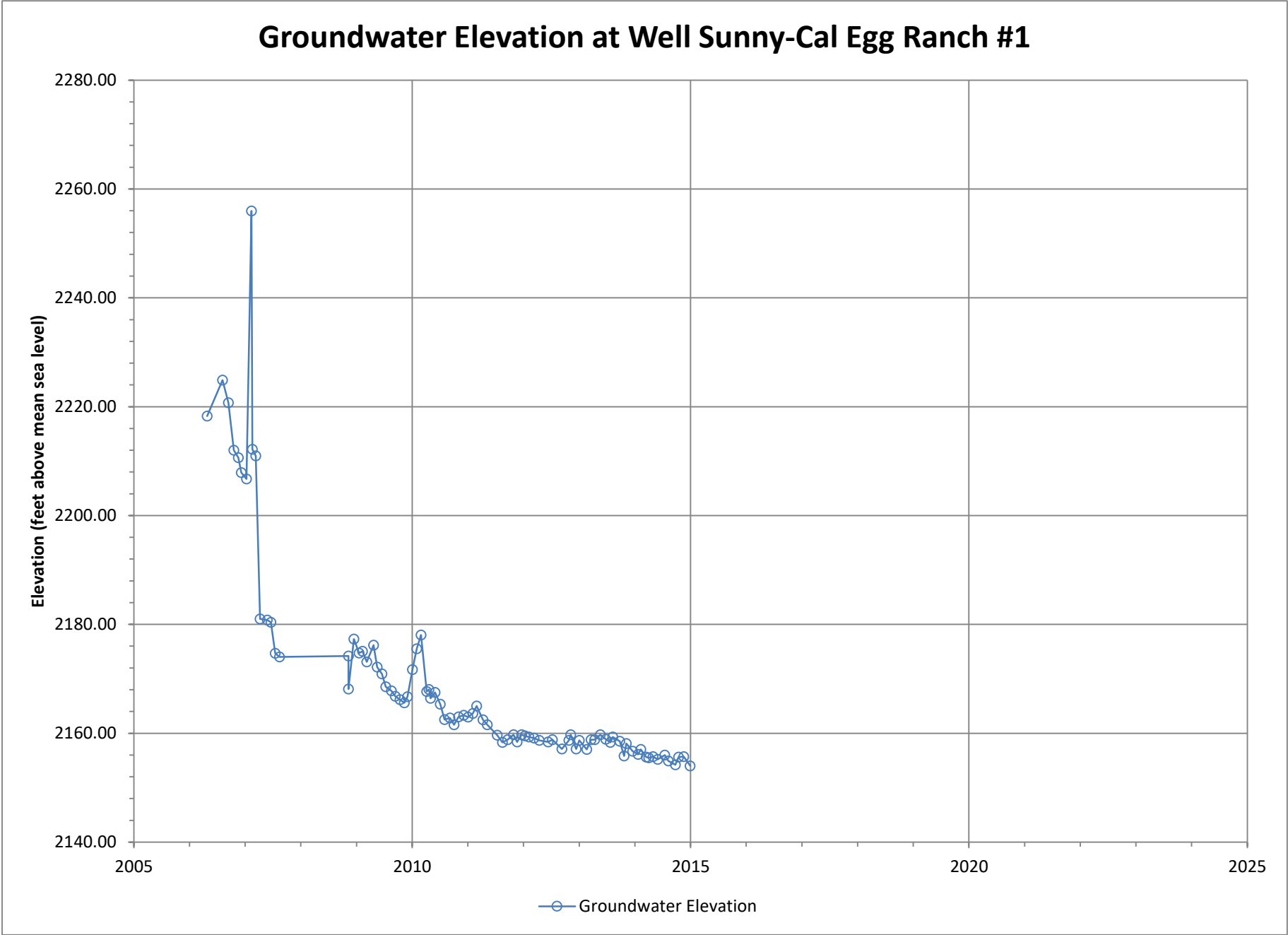
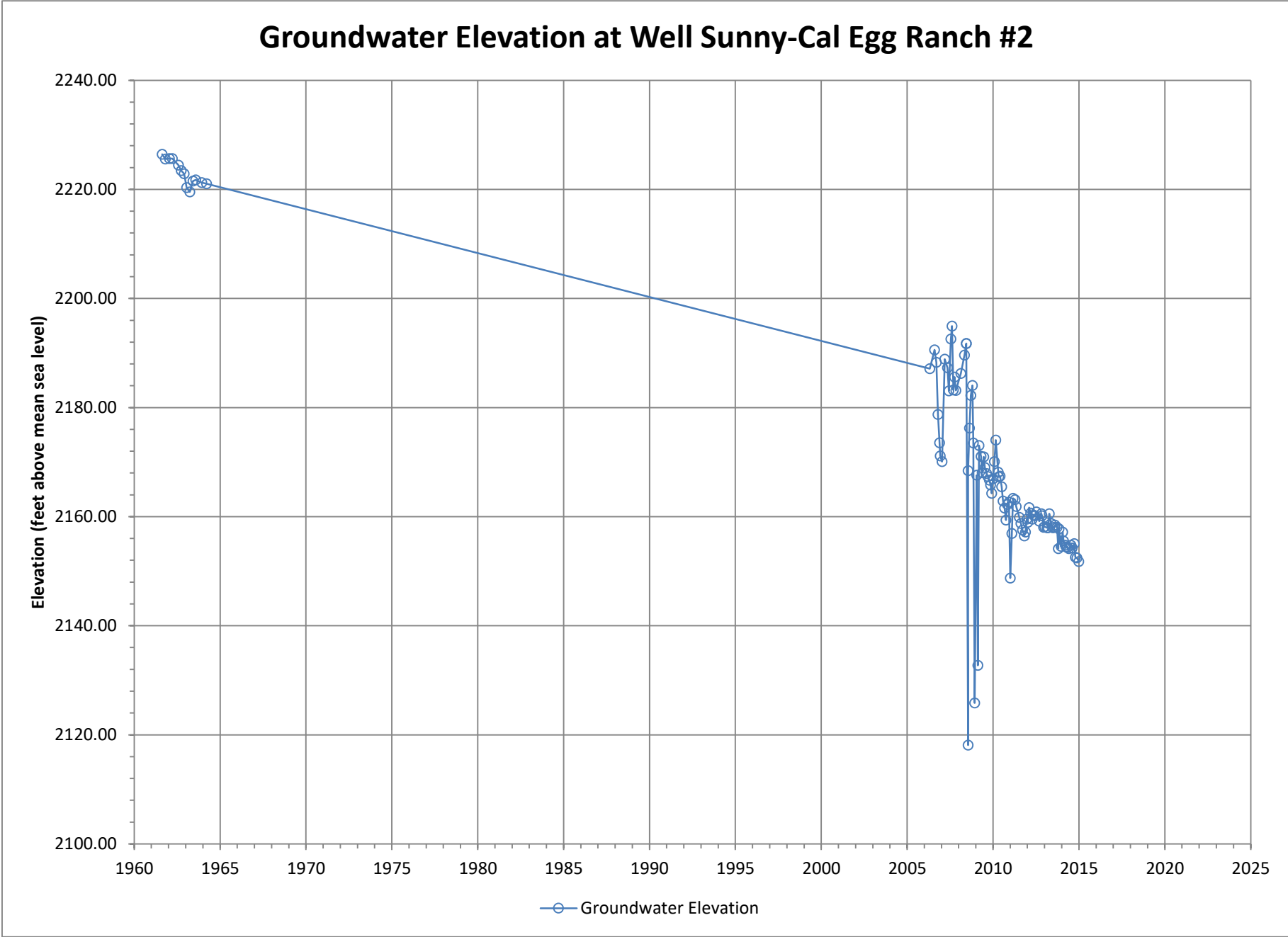
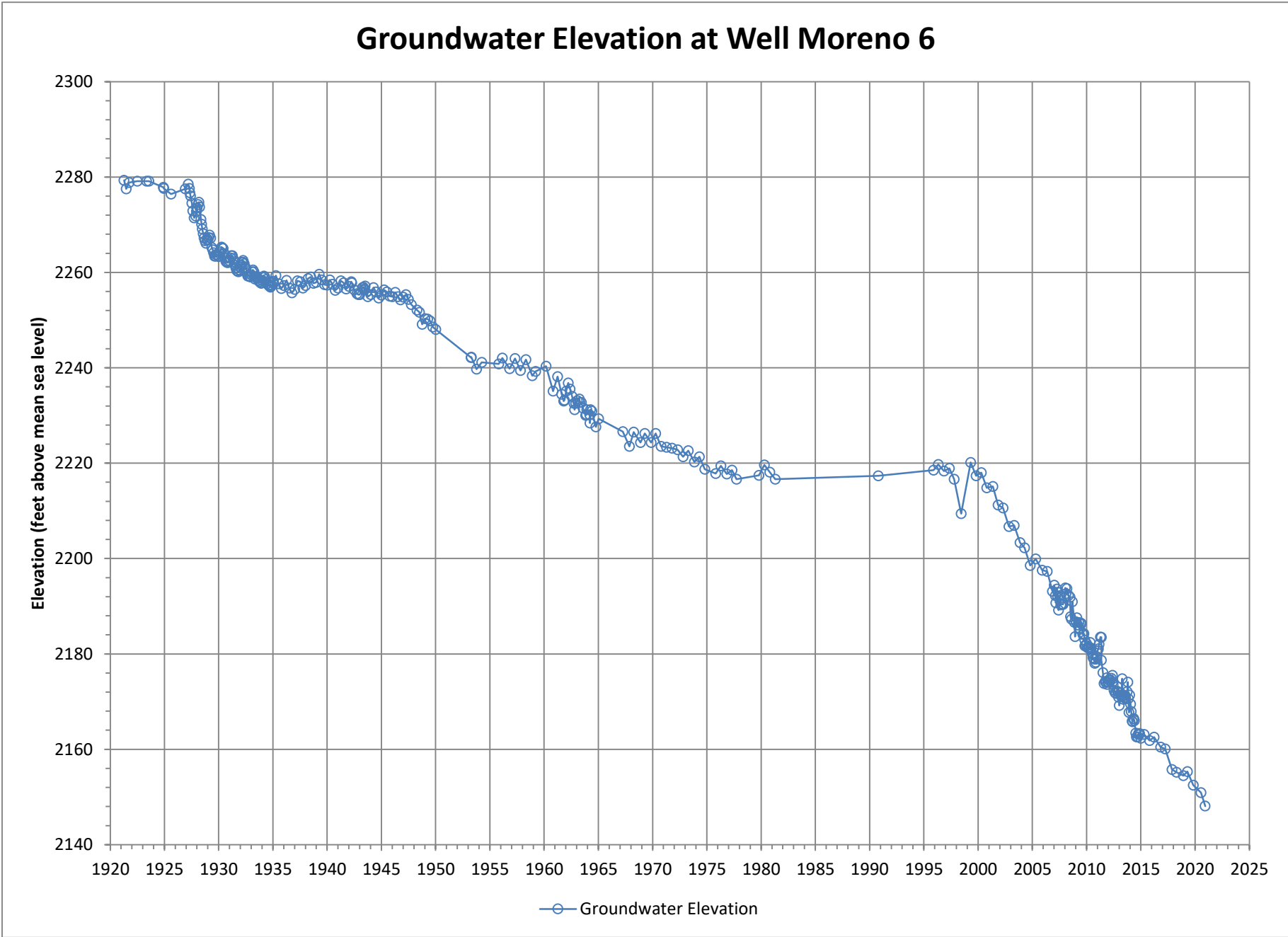
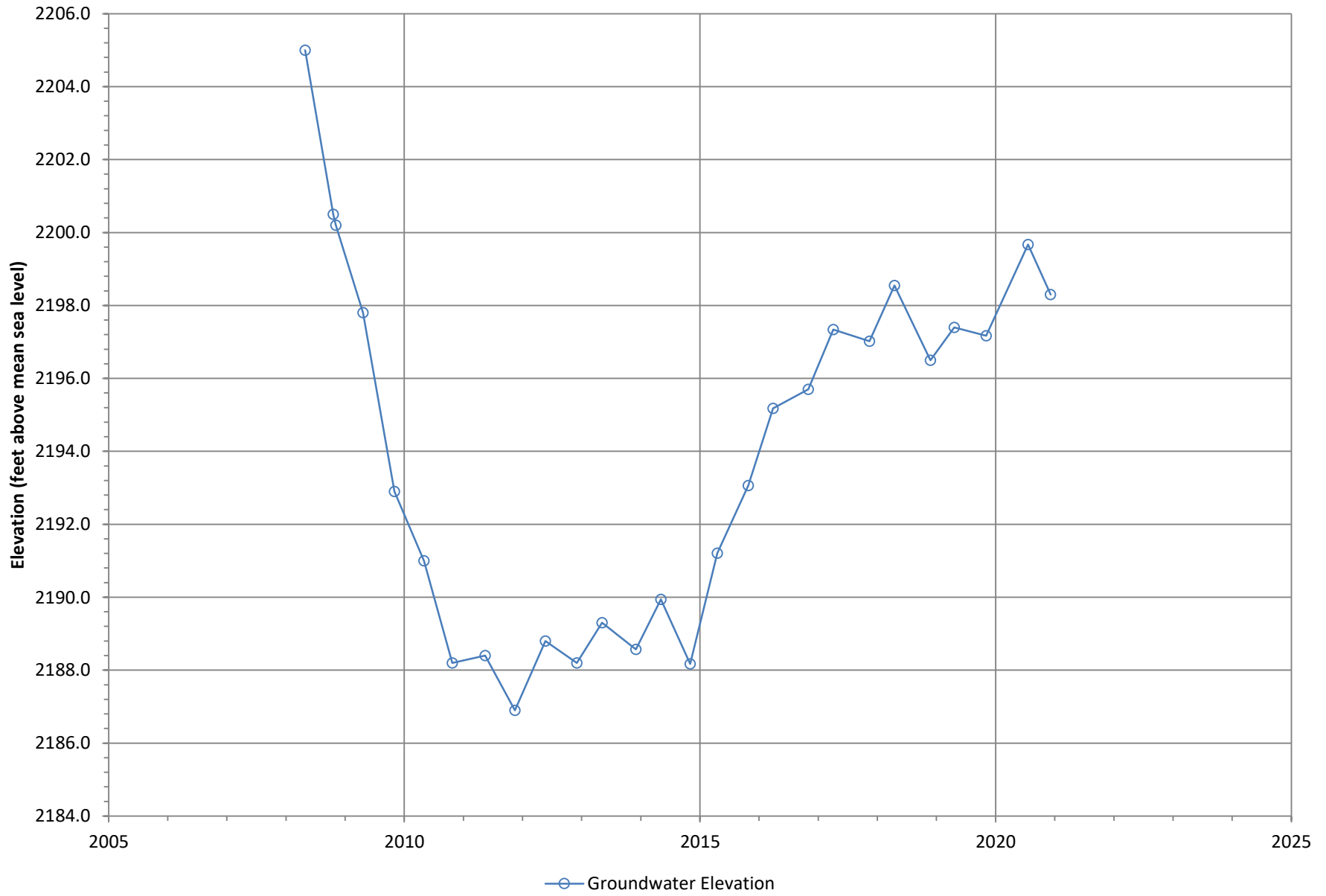


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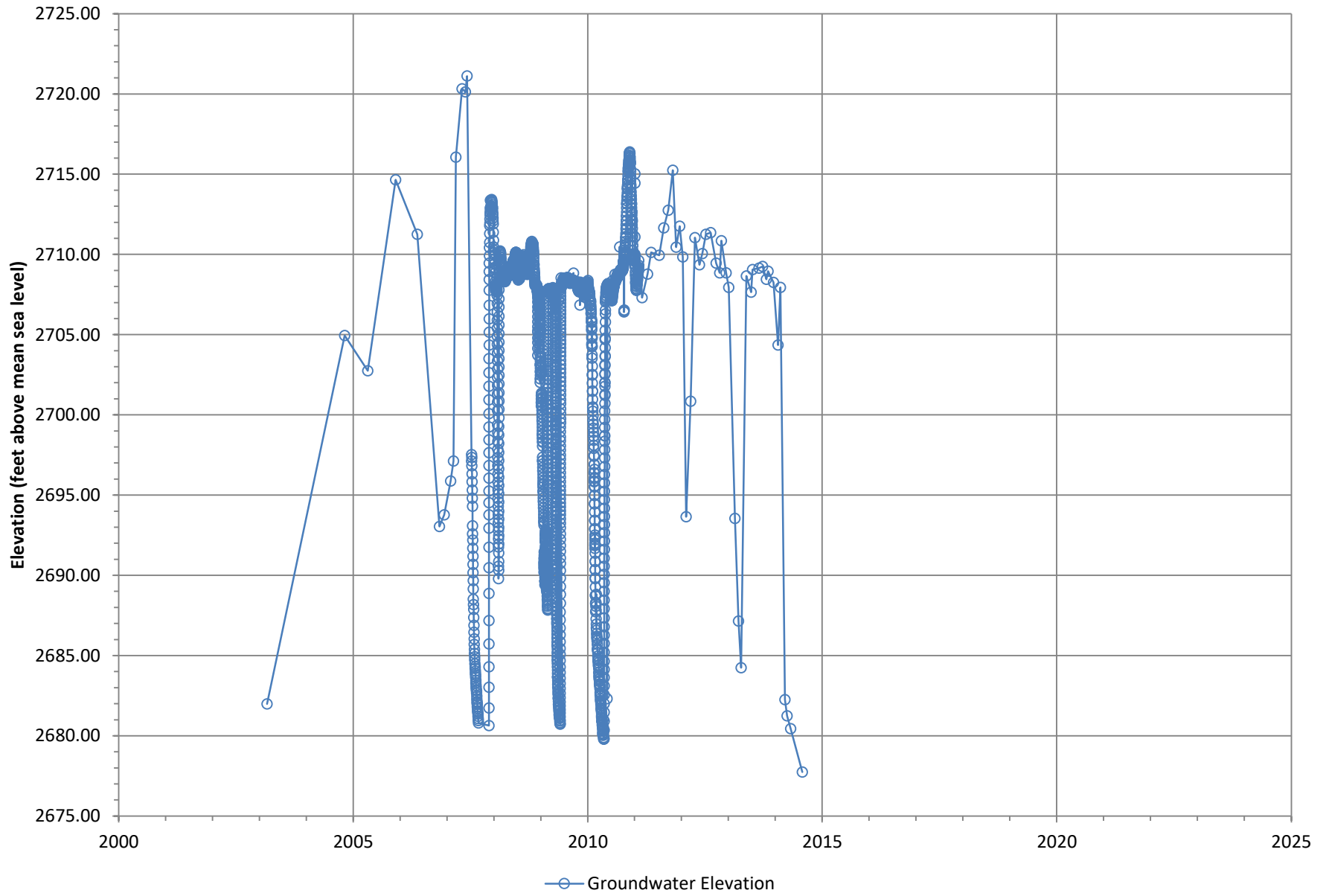




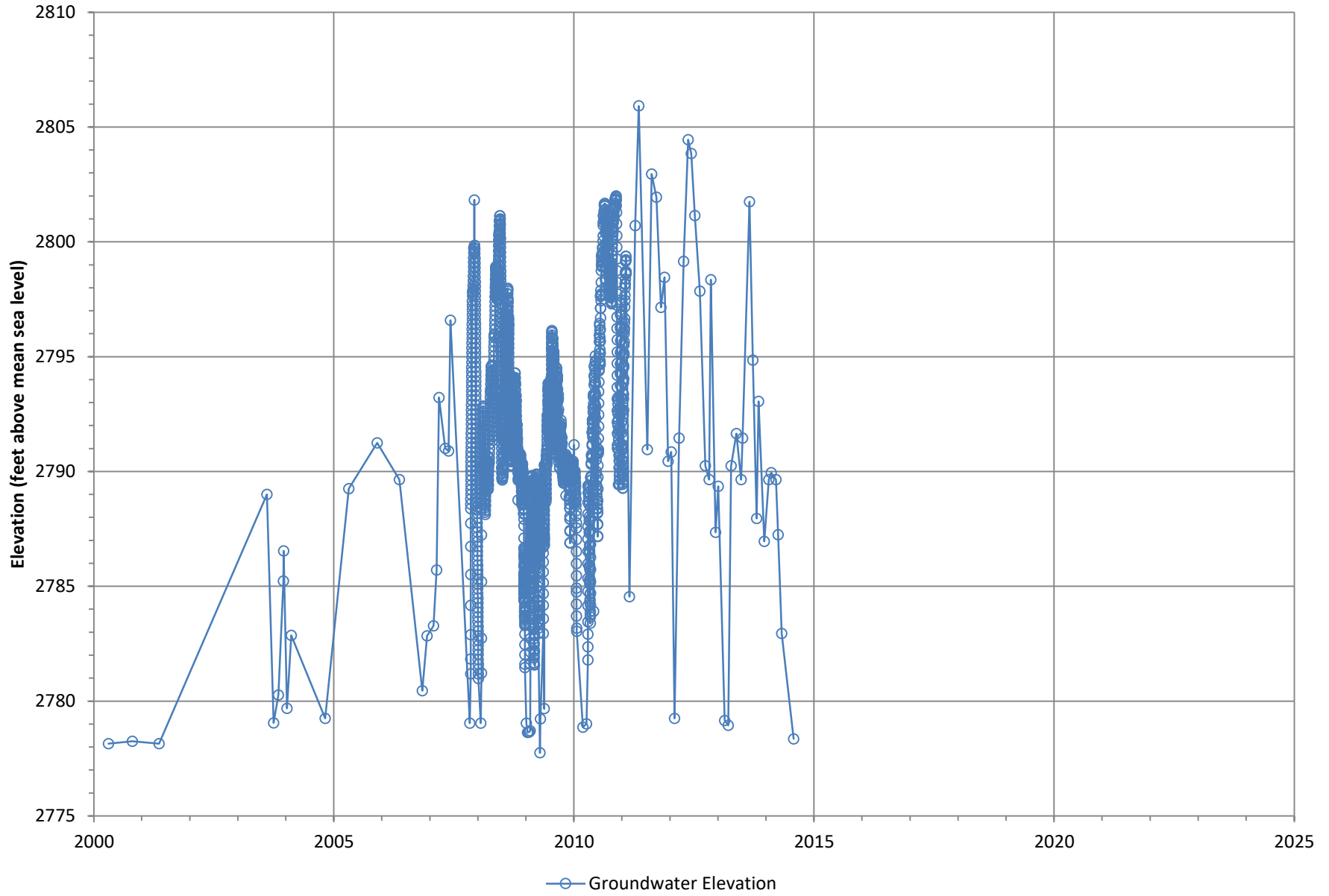
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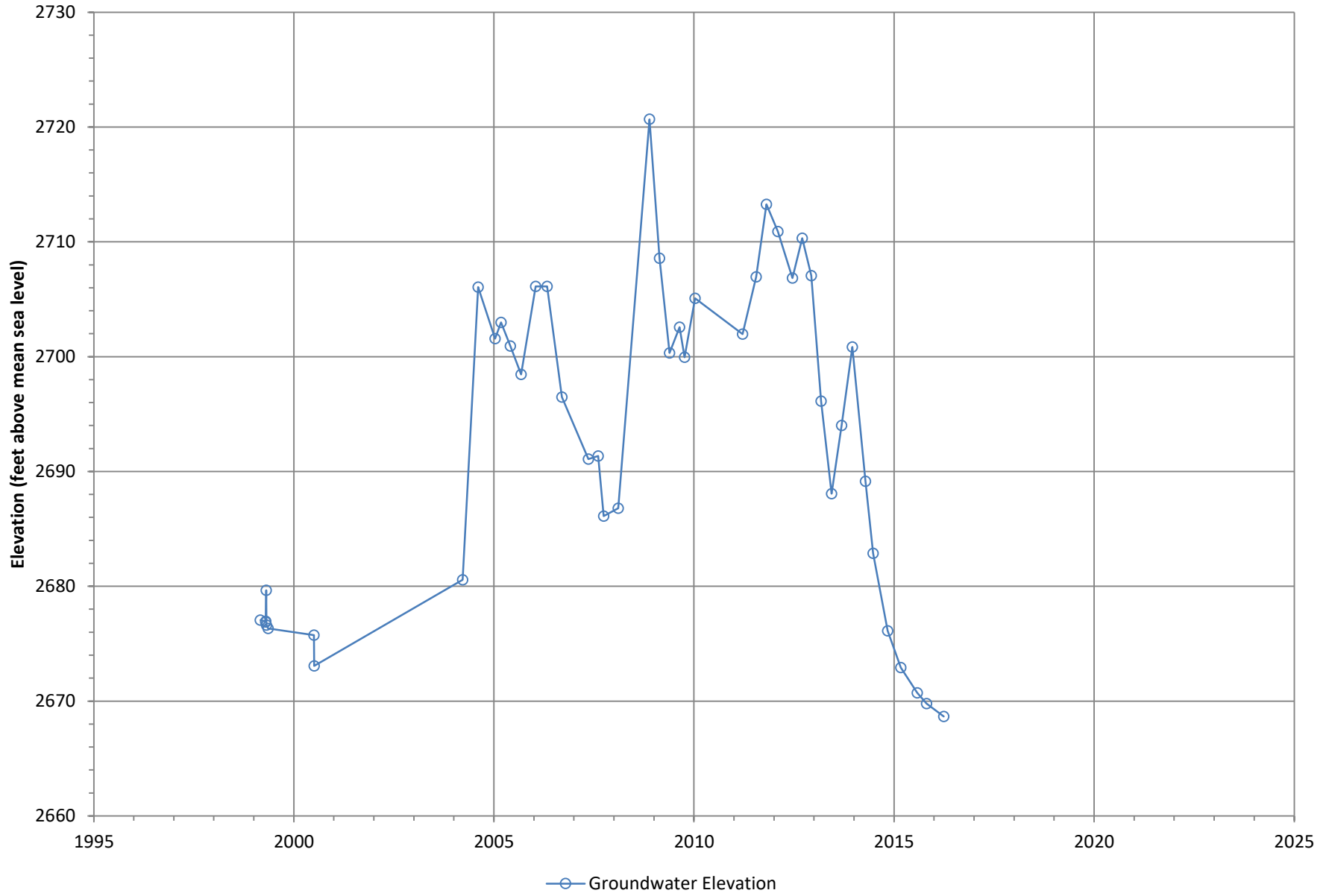
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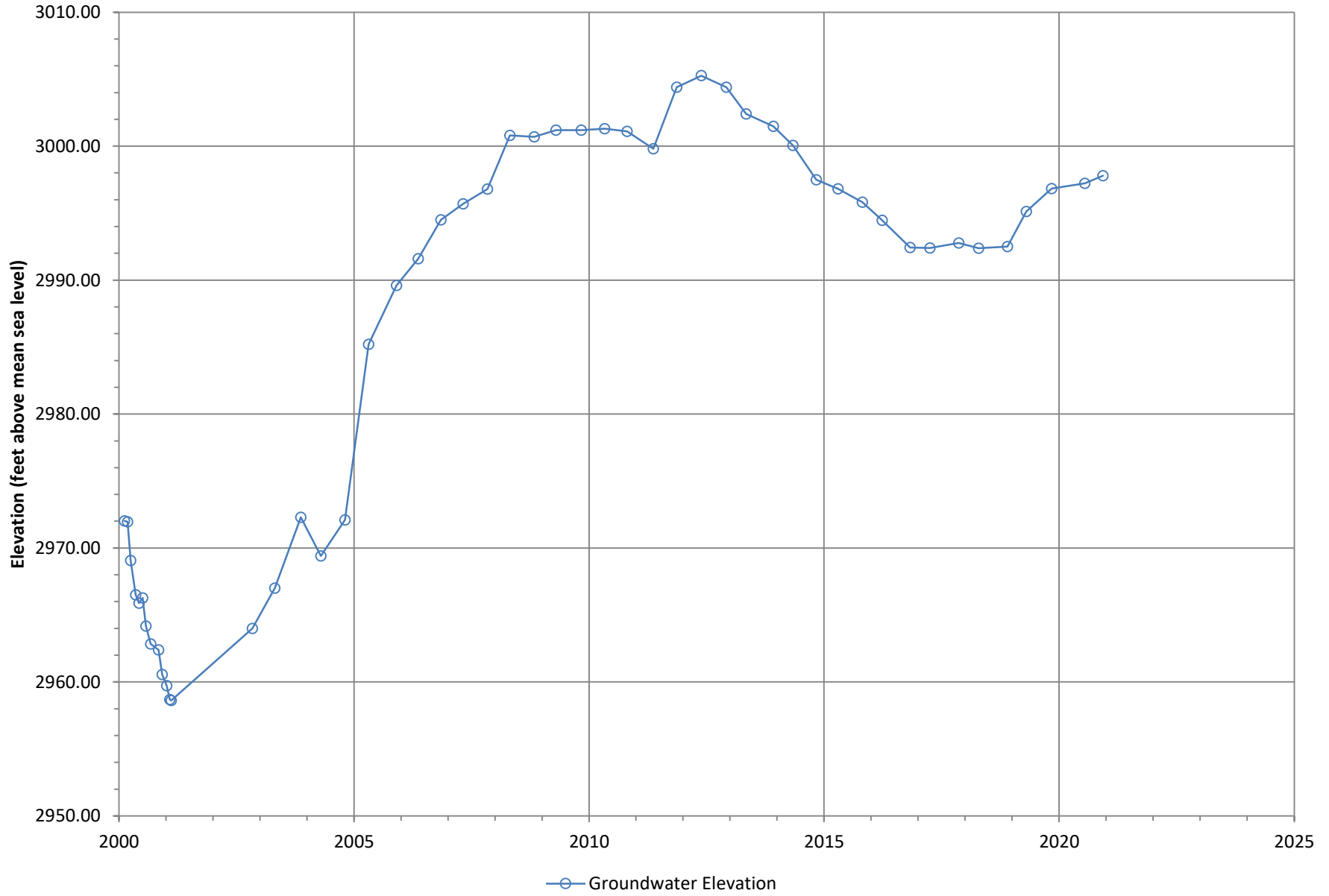
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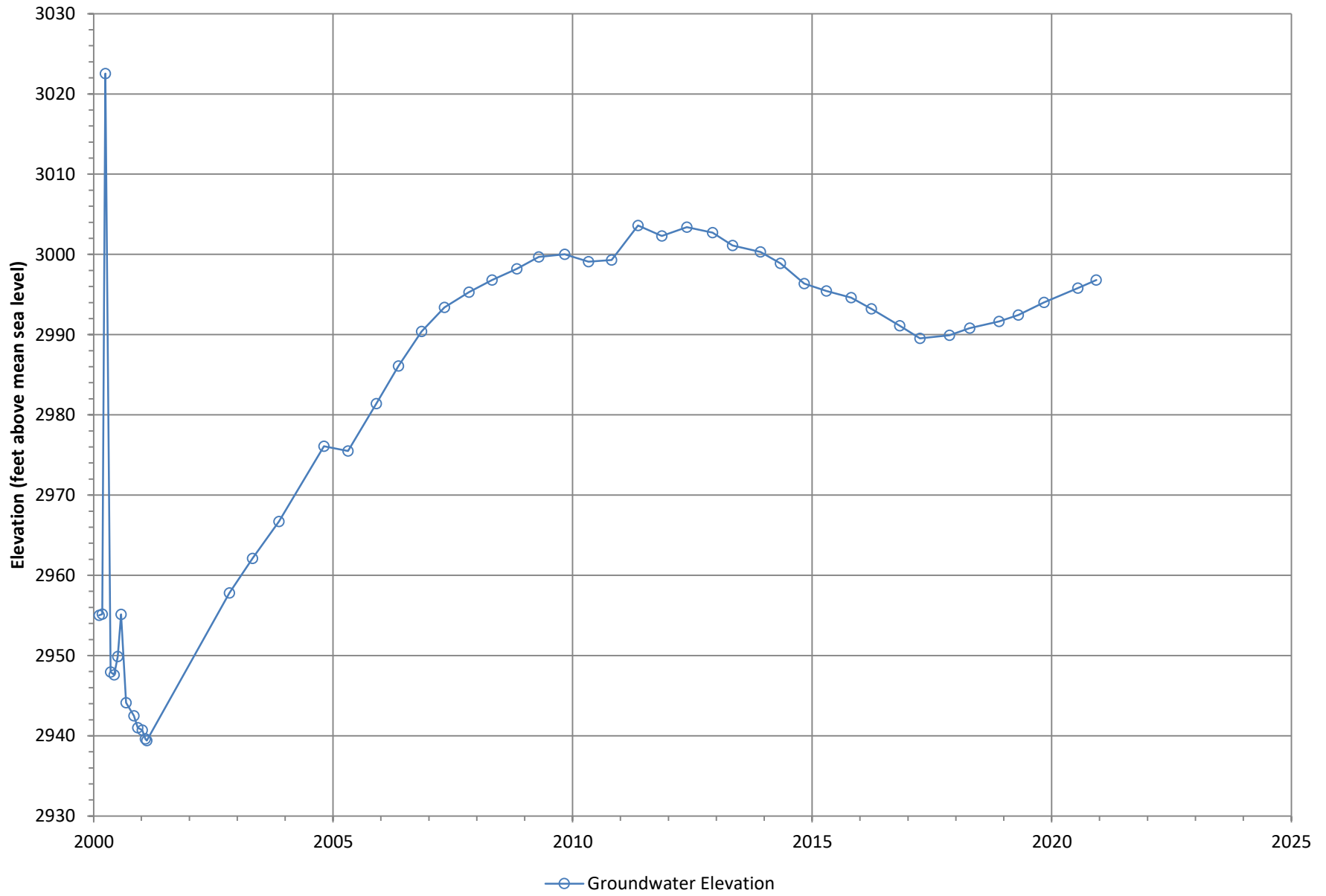
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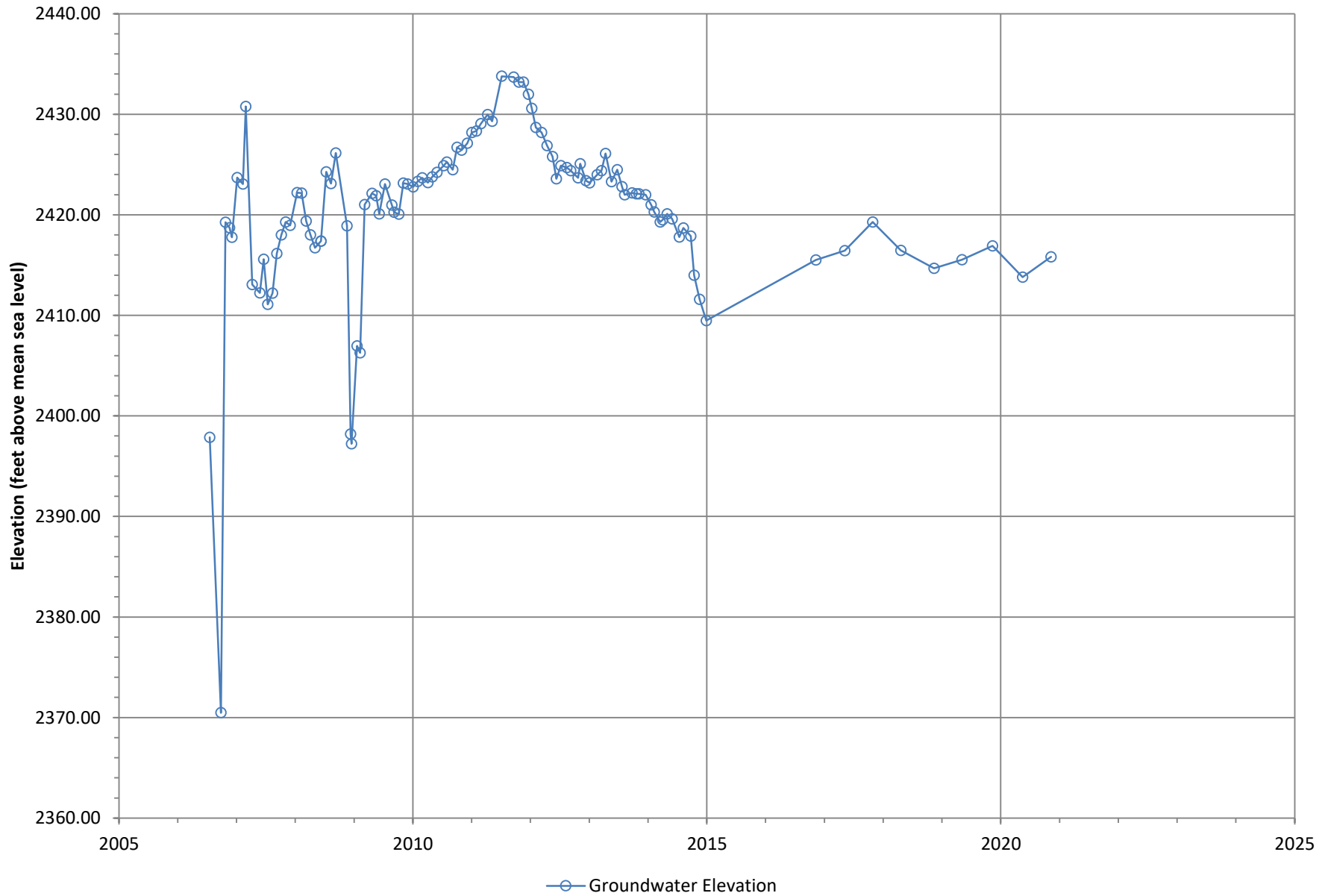
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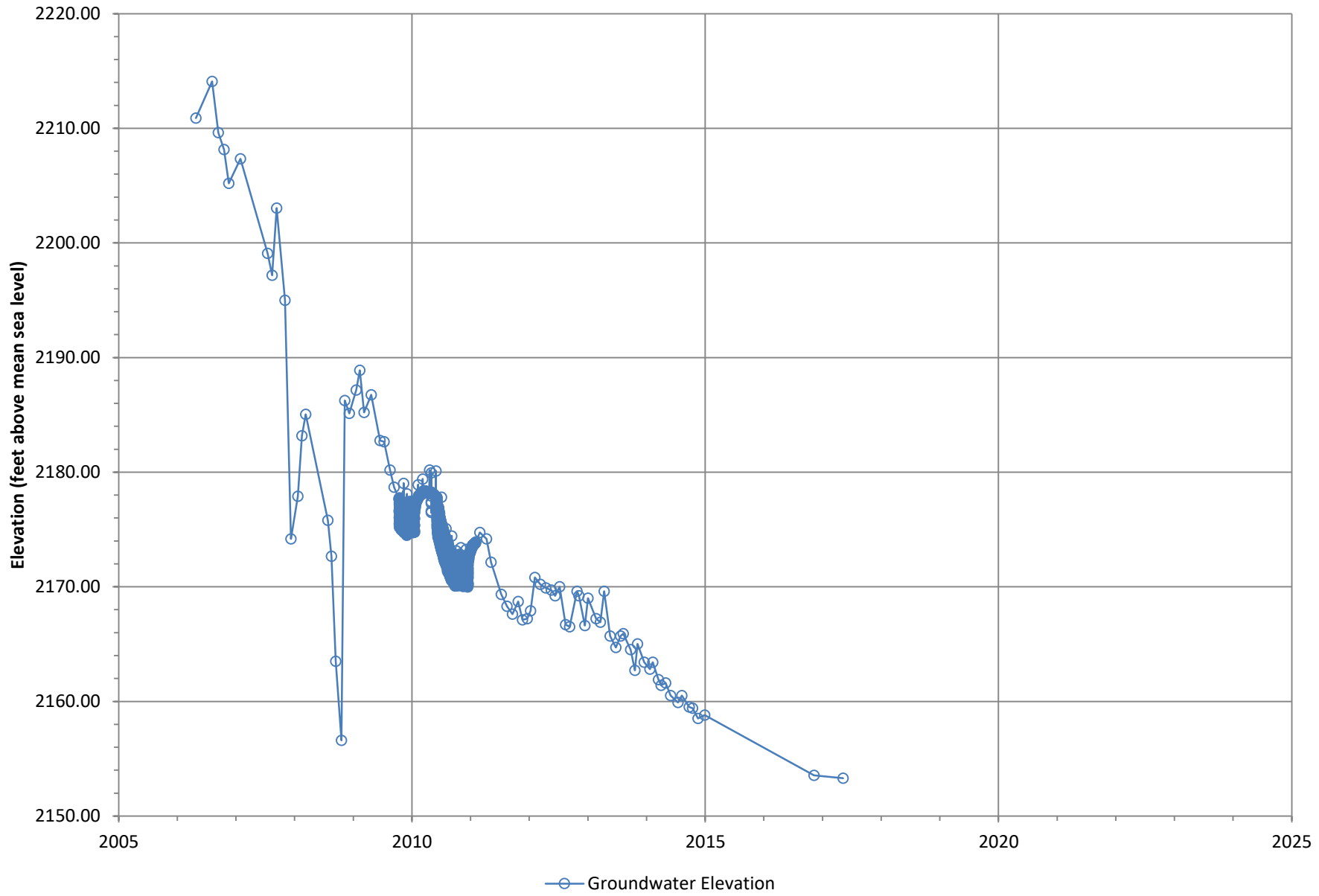
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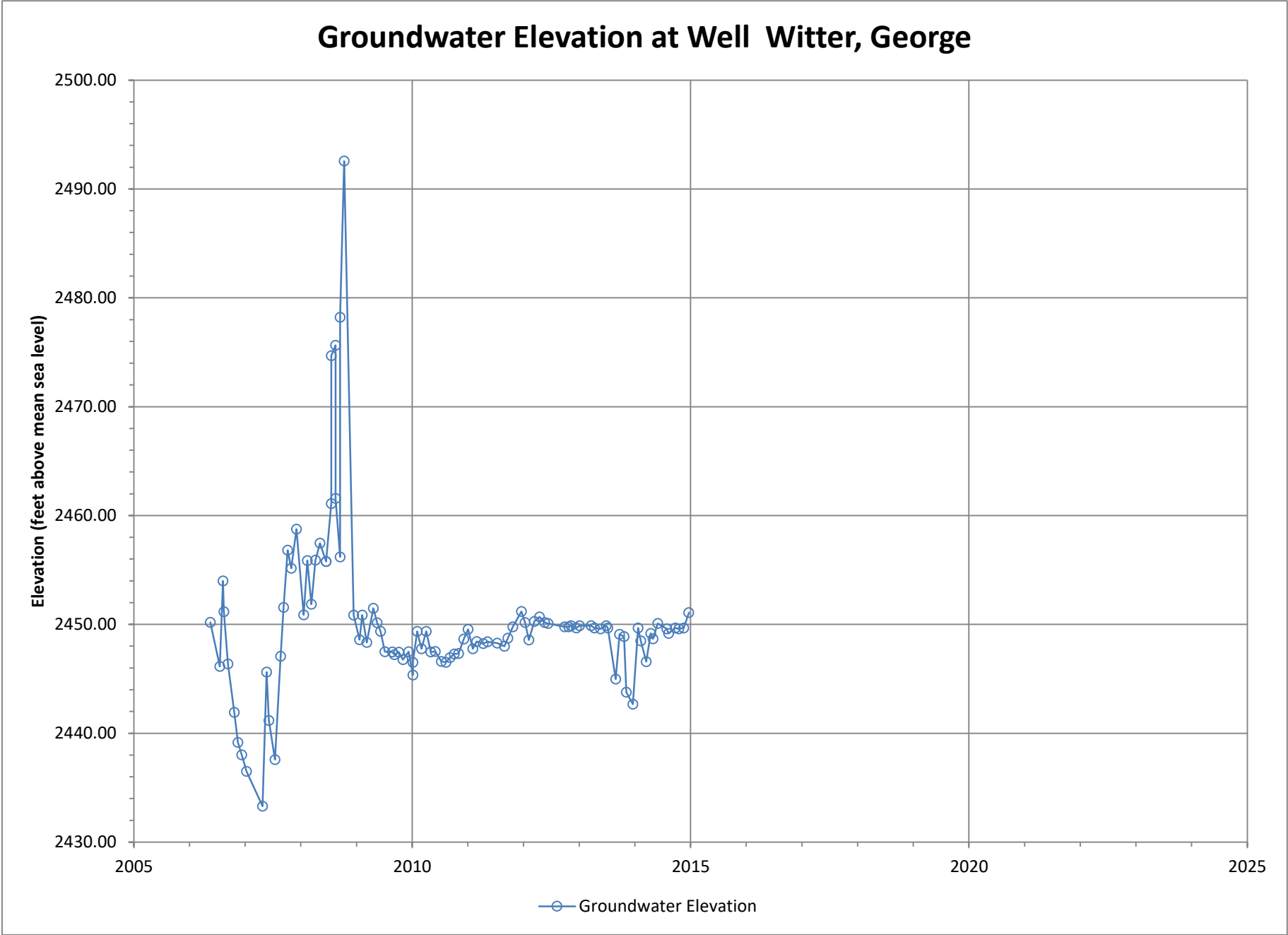


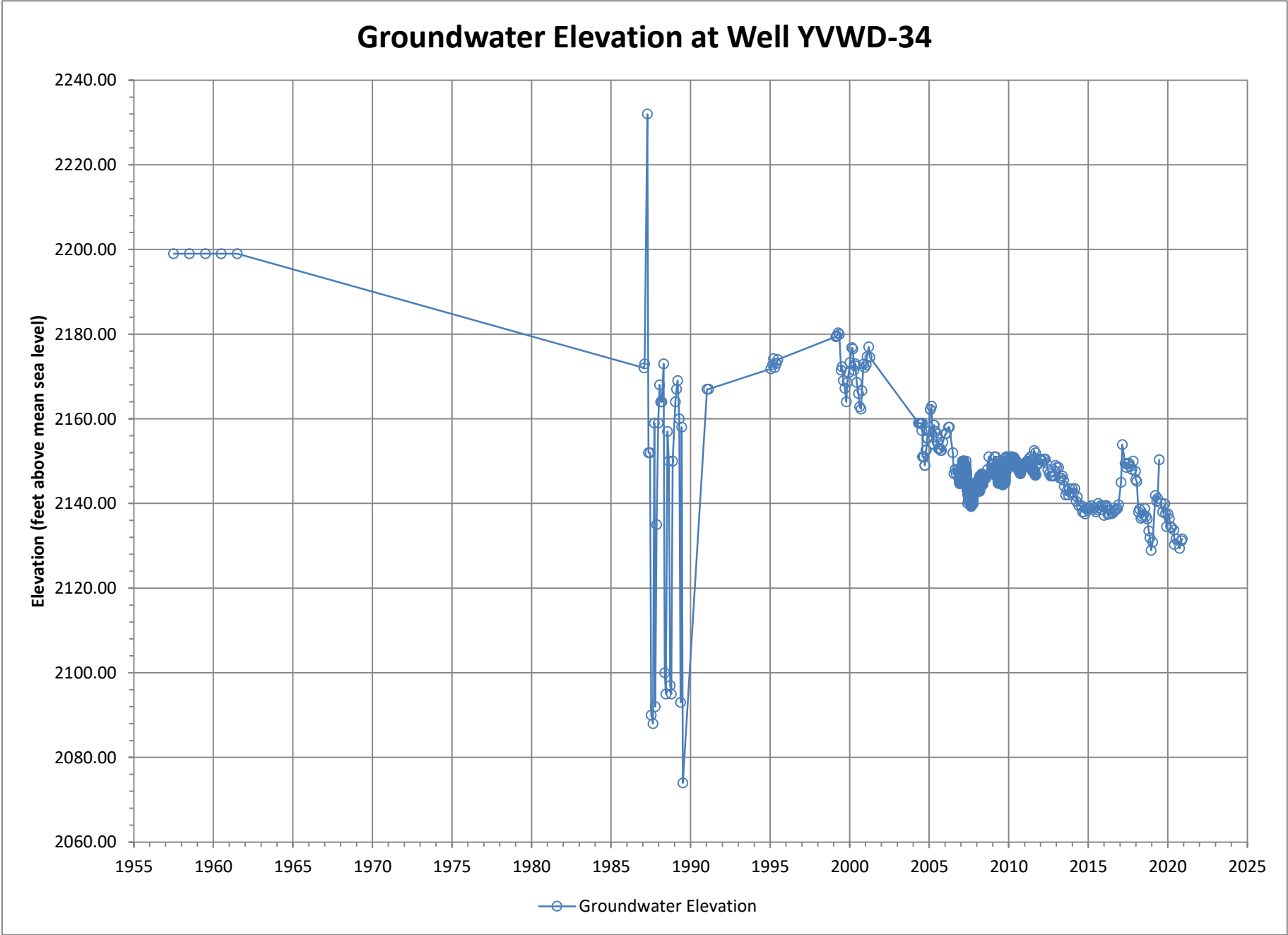
Groundwater Elevation at Well Unknown Owner #1208640

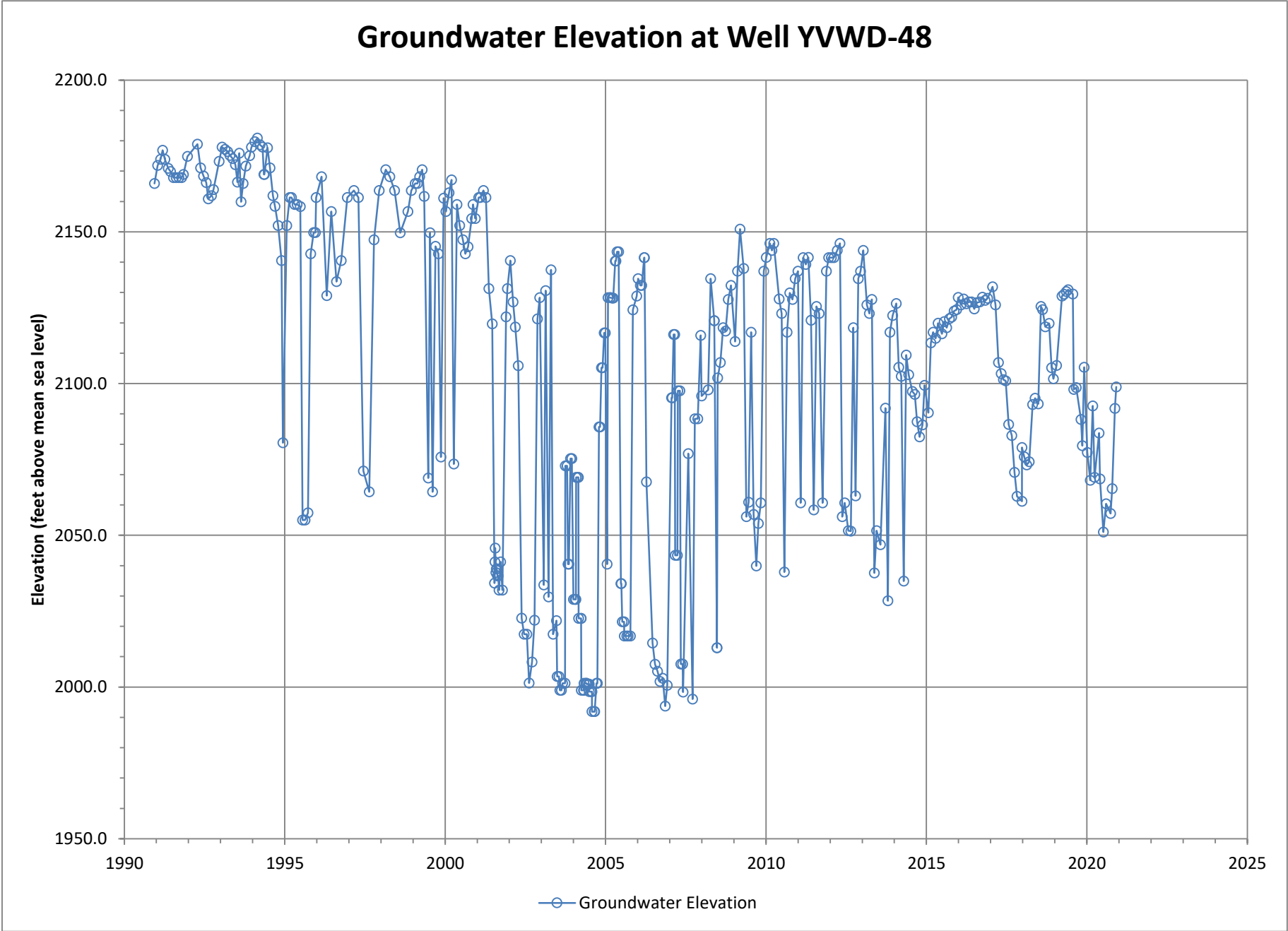


Groundwater Elevation at Well Unknown Owner #1221611









APPENDIX N

Hydrographs of Total Dissolved Solids and Nitrate (as Nitrogen) Groundwater Concentrations at Wells in the Beaumont Groundwater Management Zone

APPENDIX N

Groundwater Quality Hydrographs for Beaumont Groundwater Management Zone

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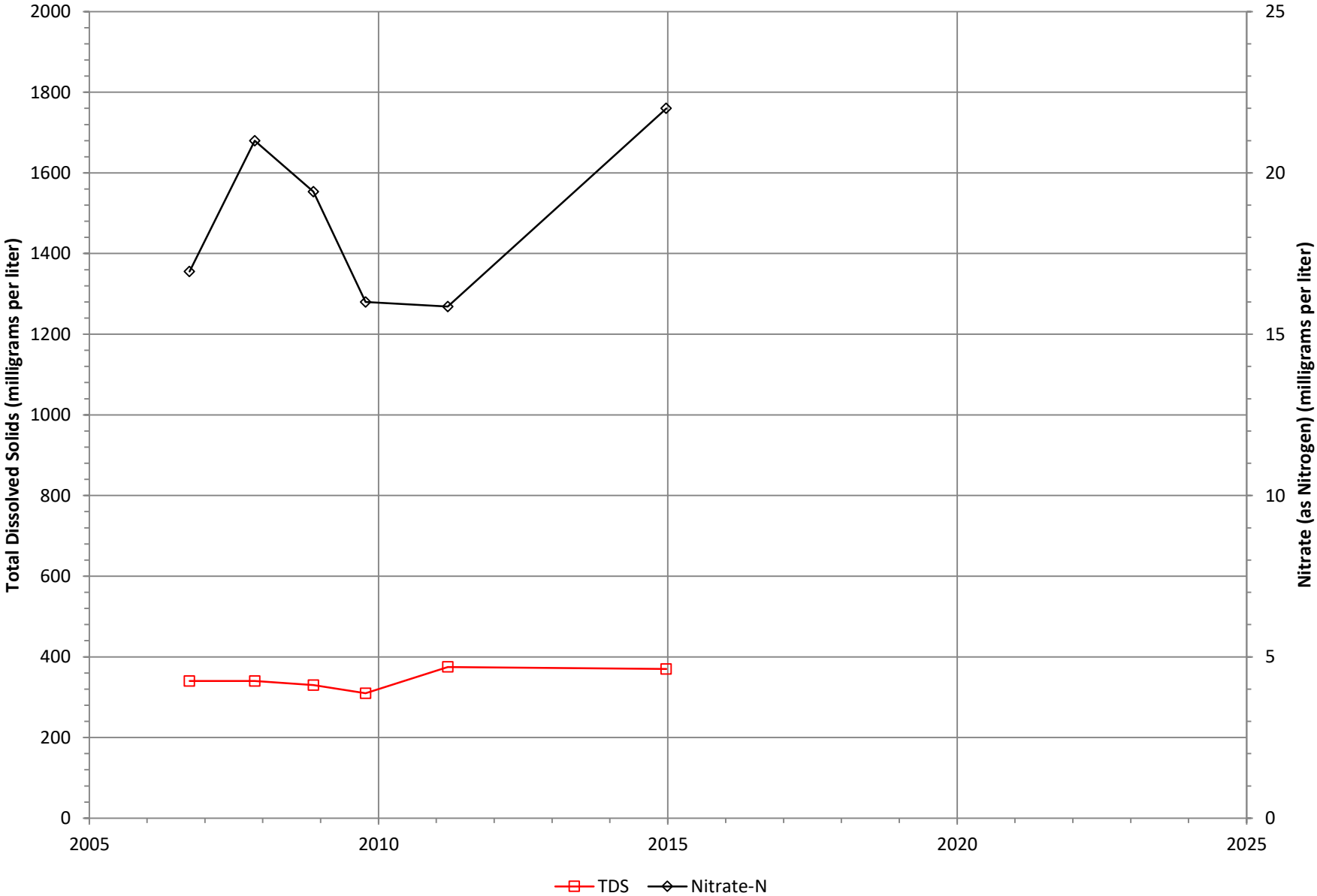
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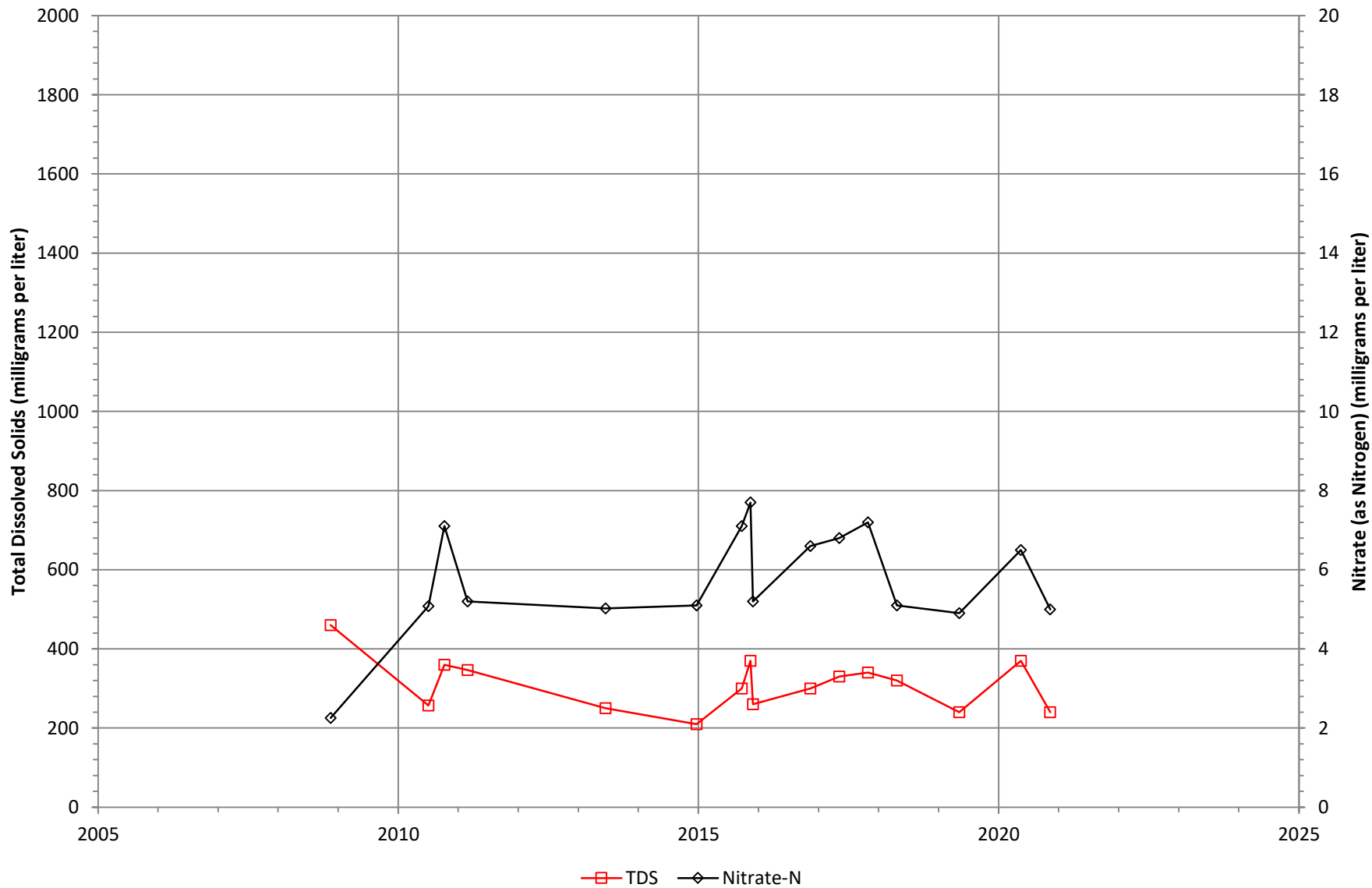
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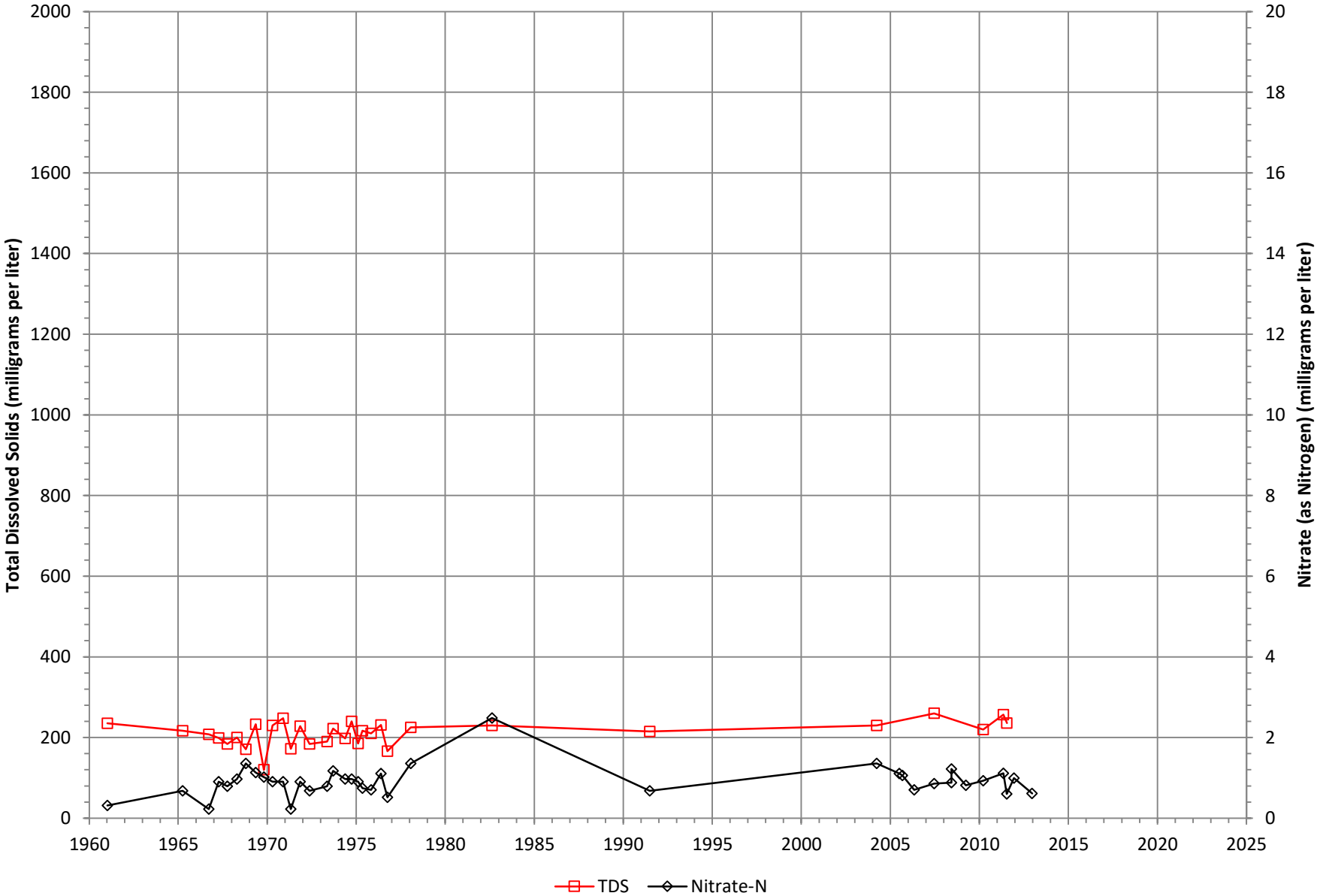
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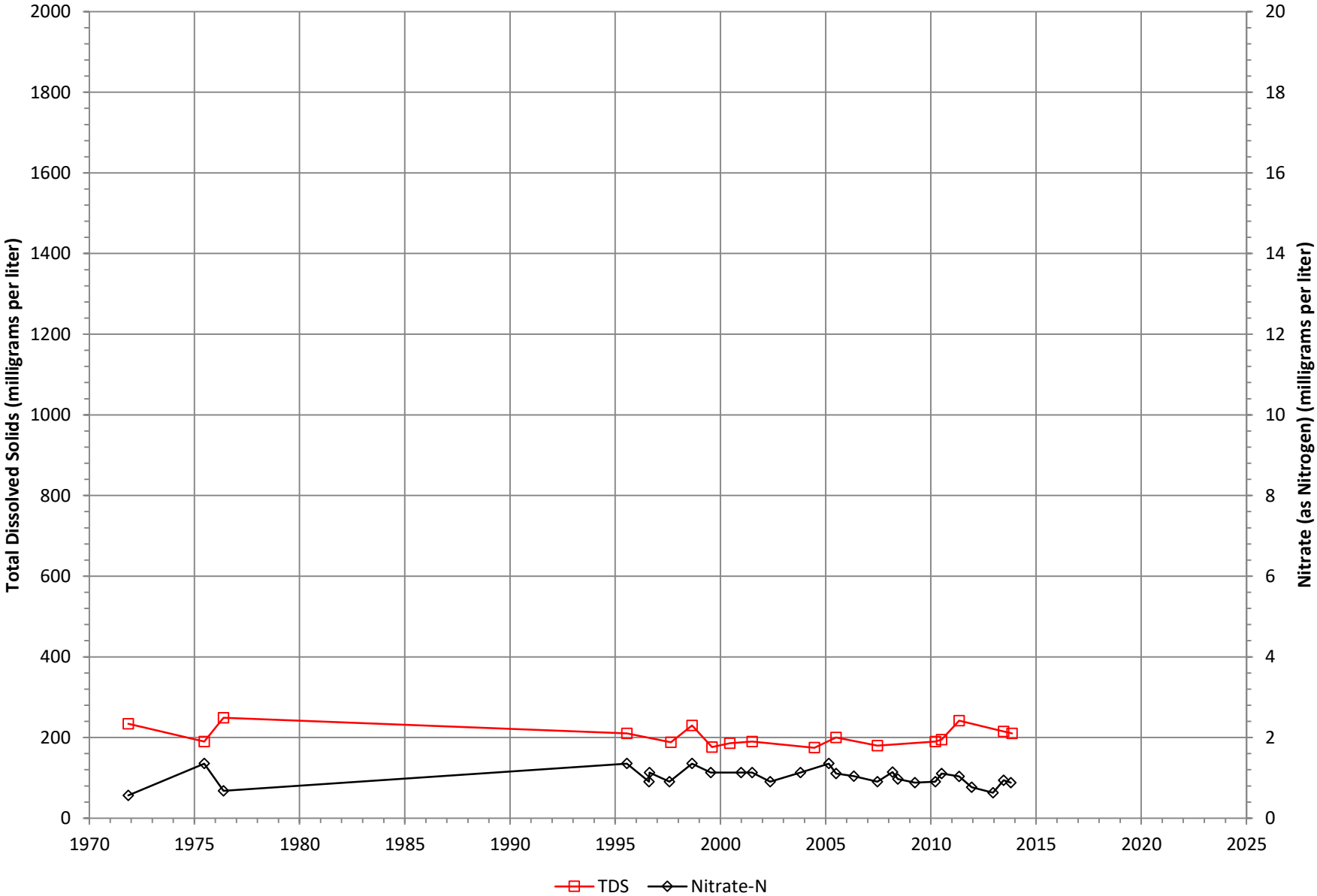
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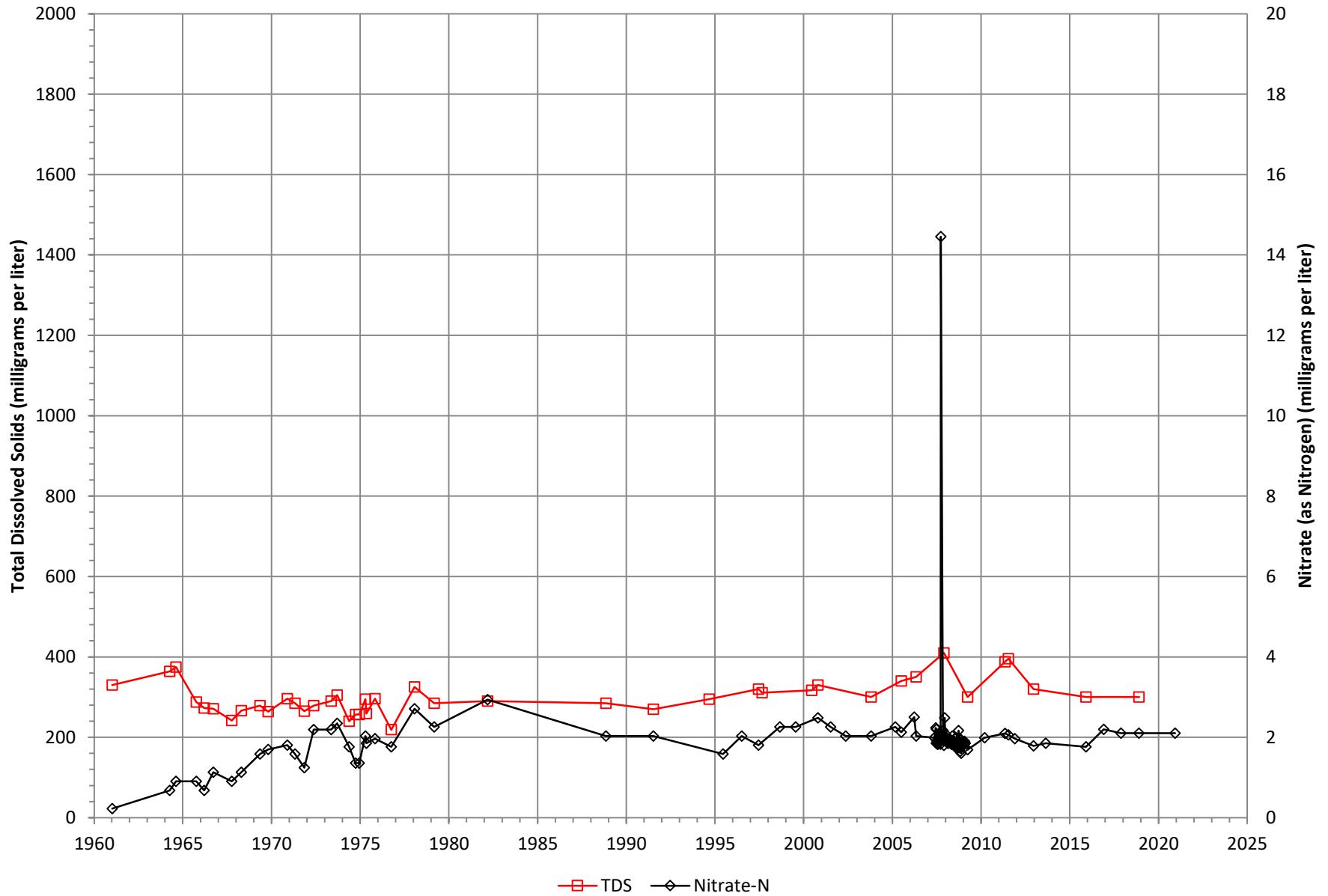
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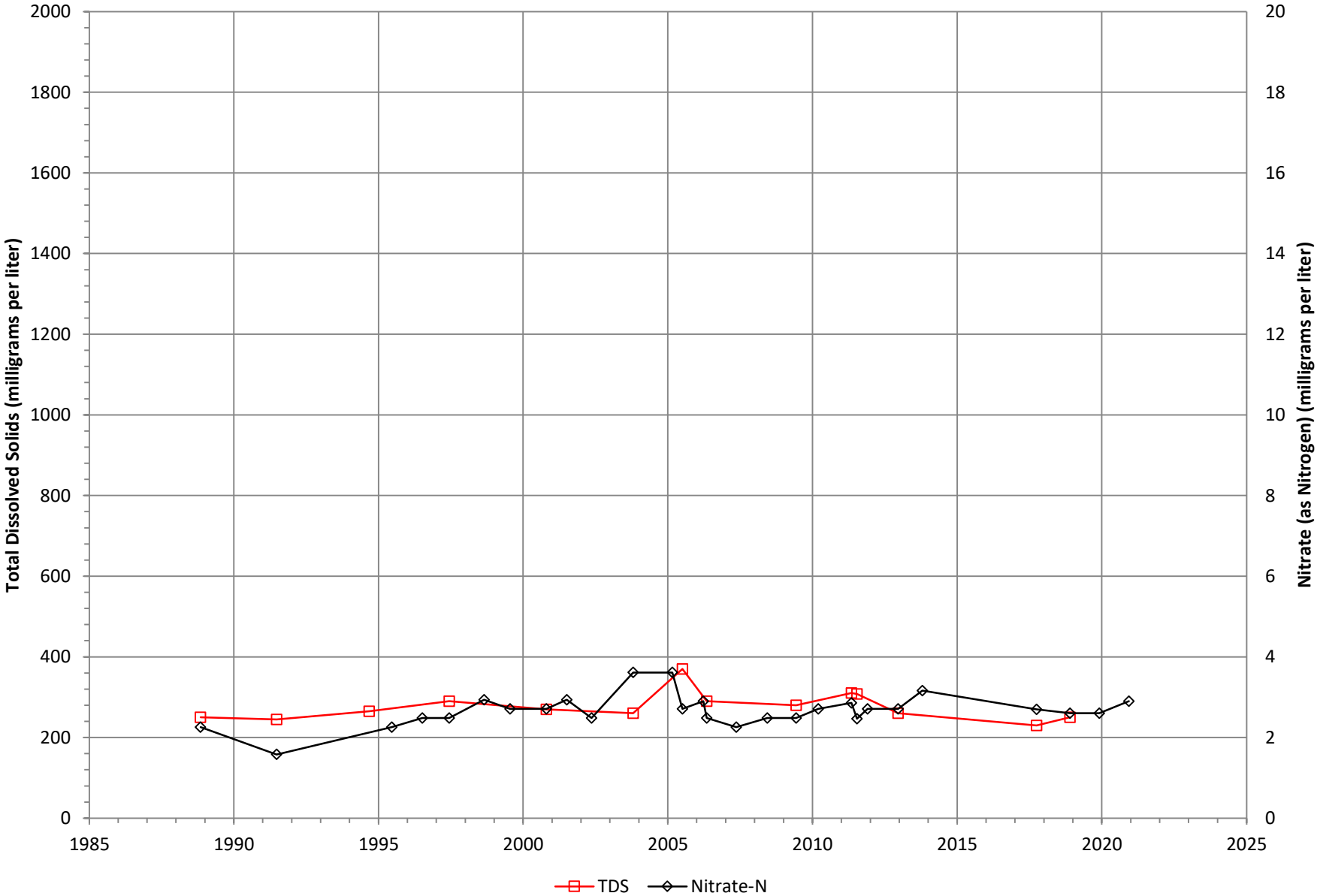
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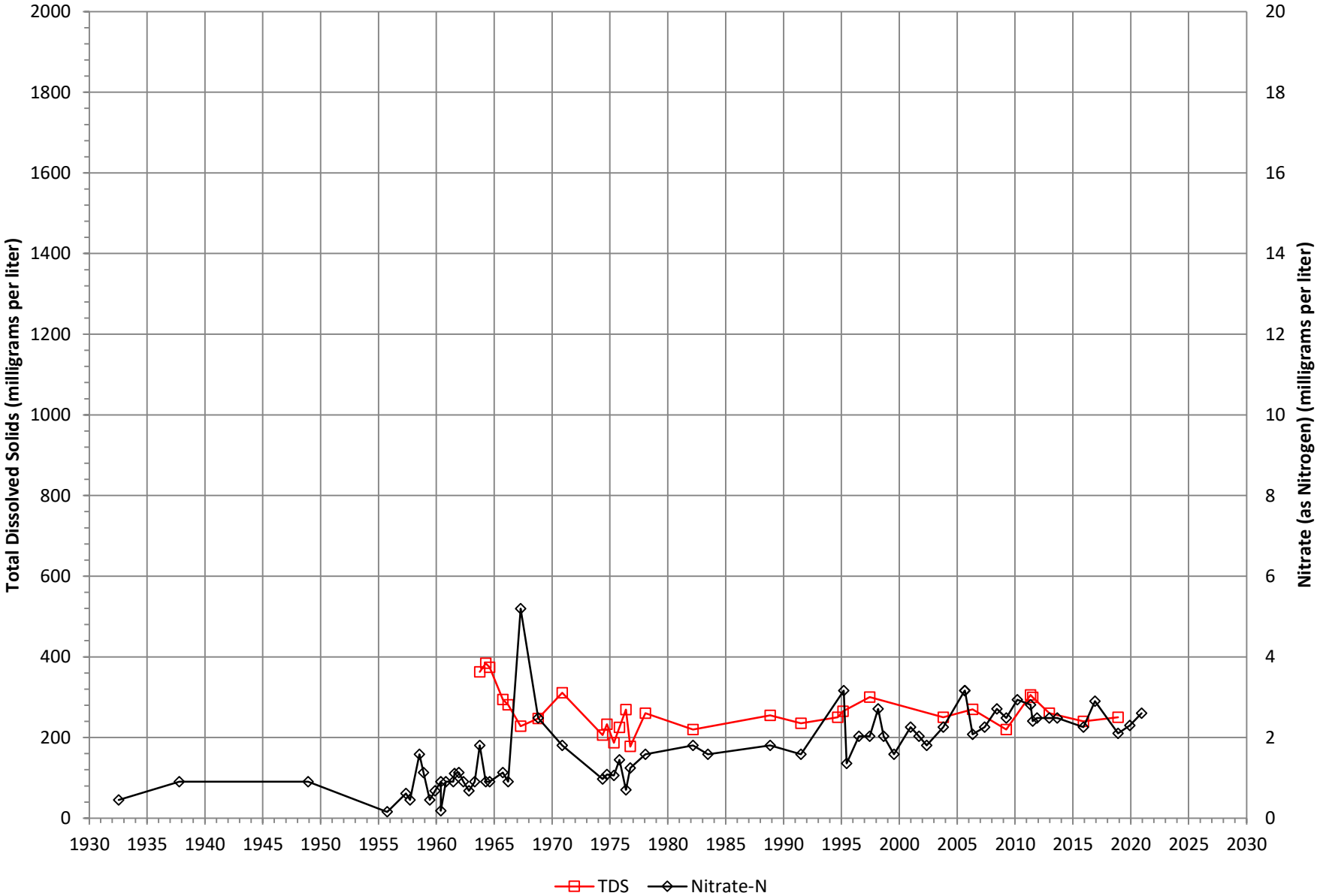
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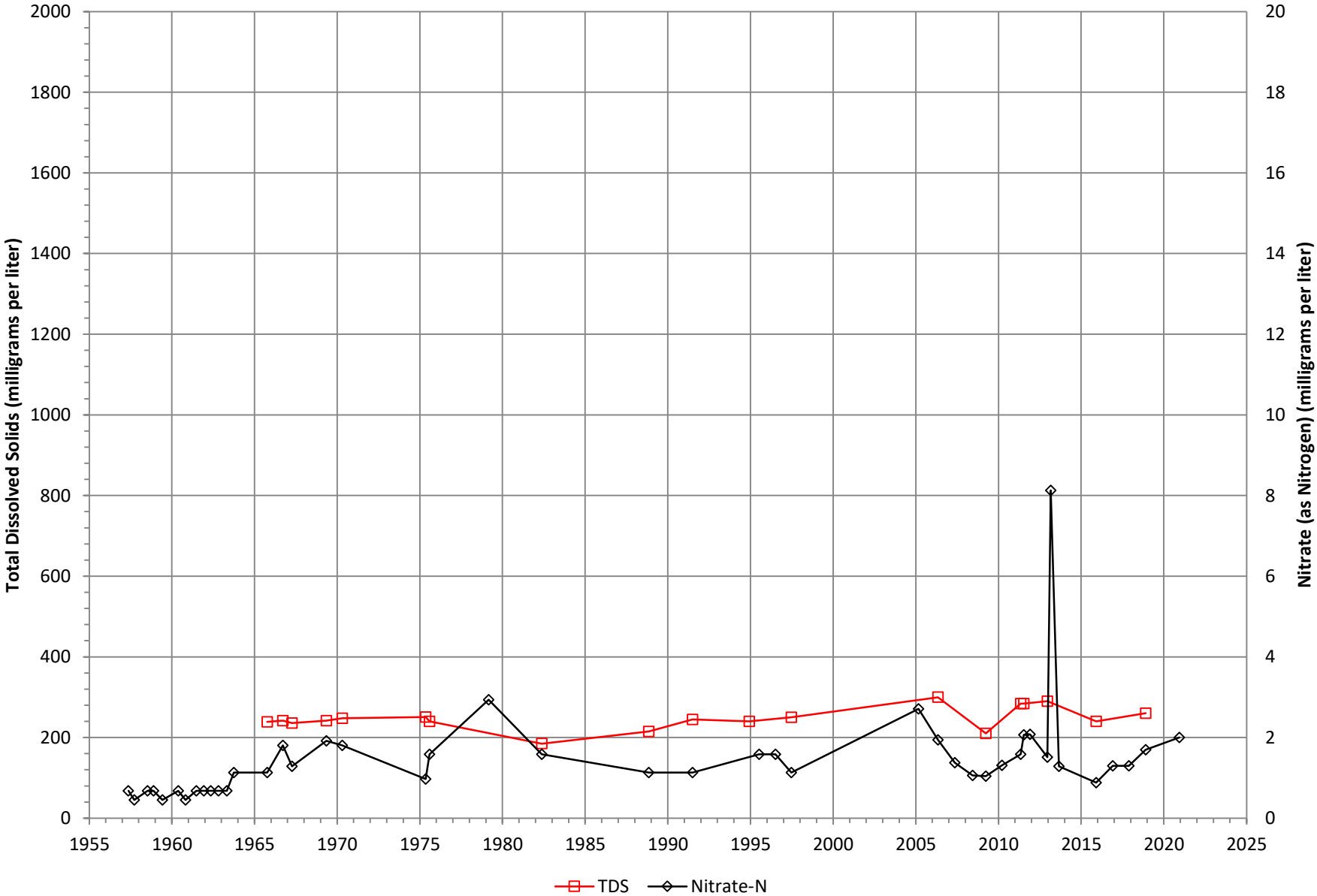
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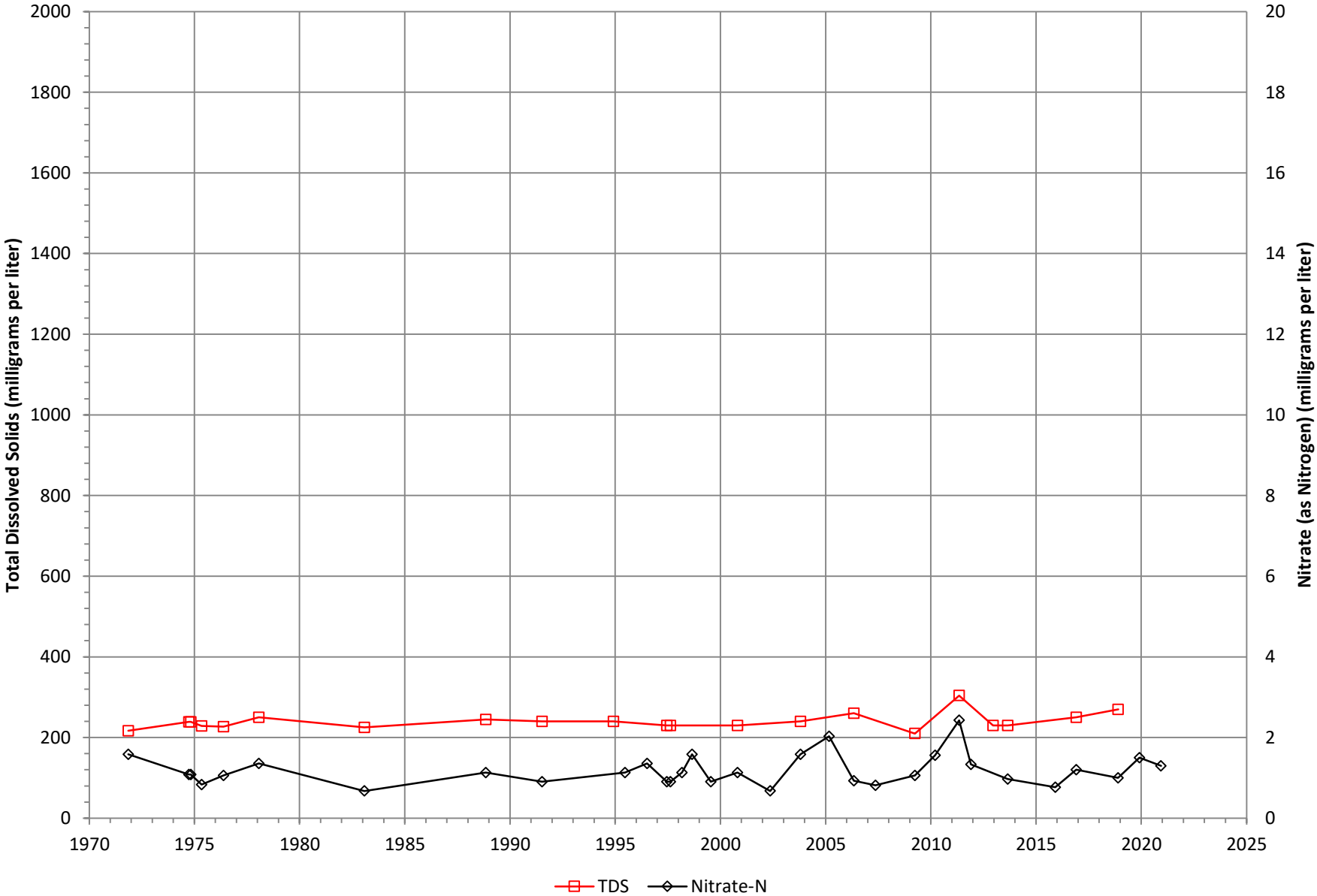
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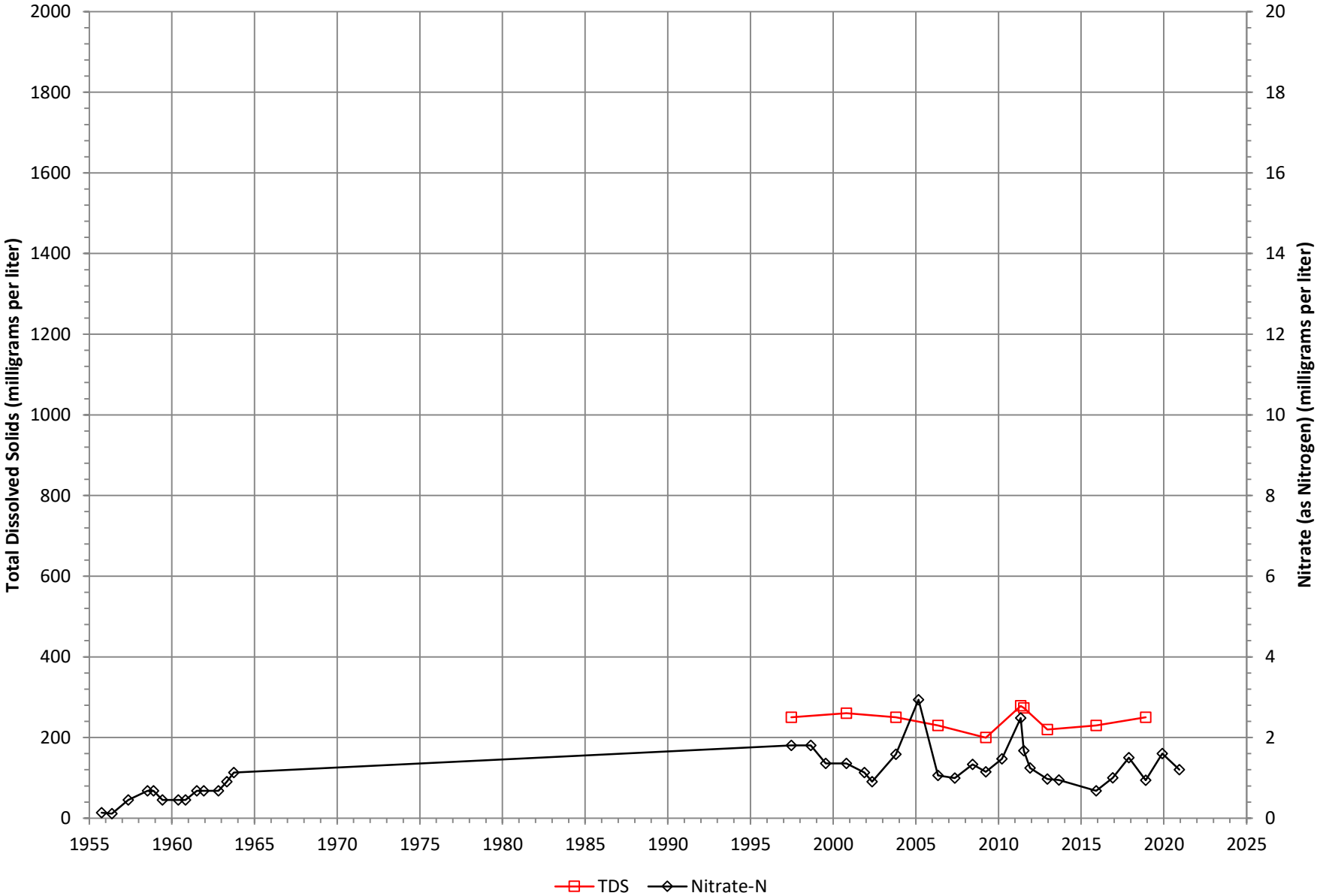
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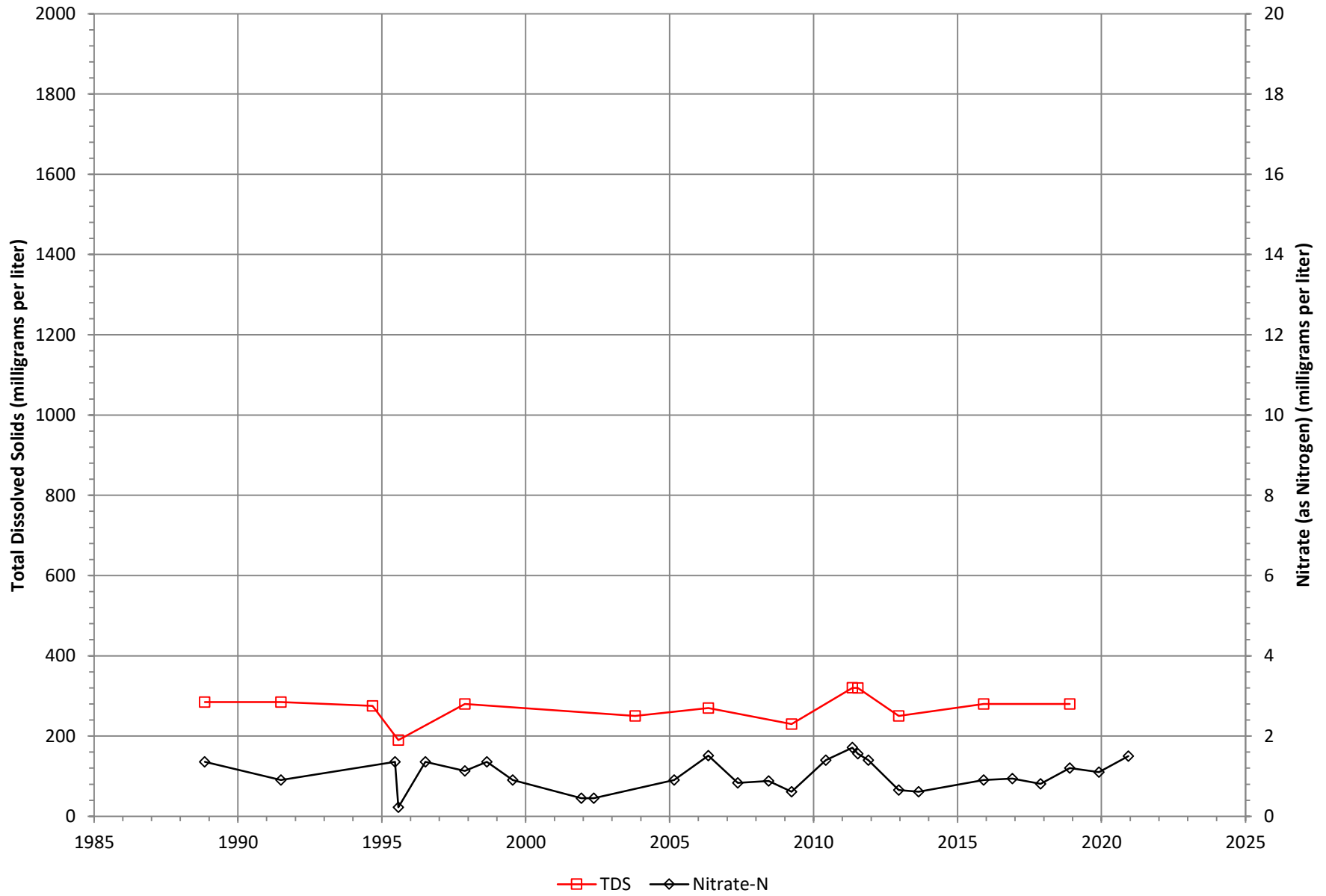
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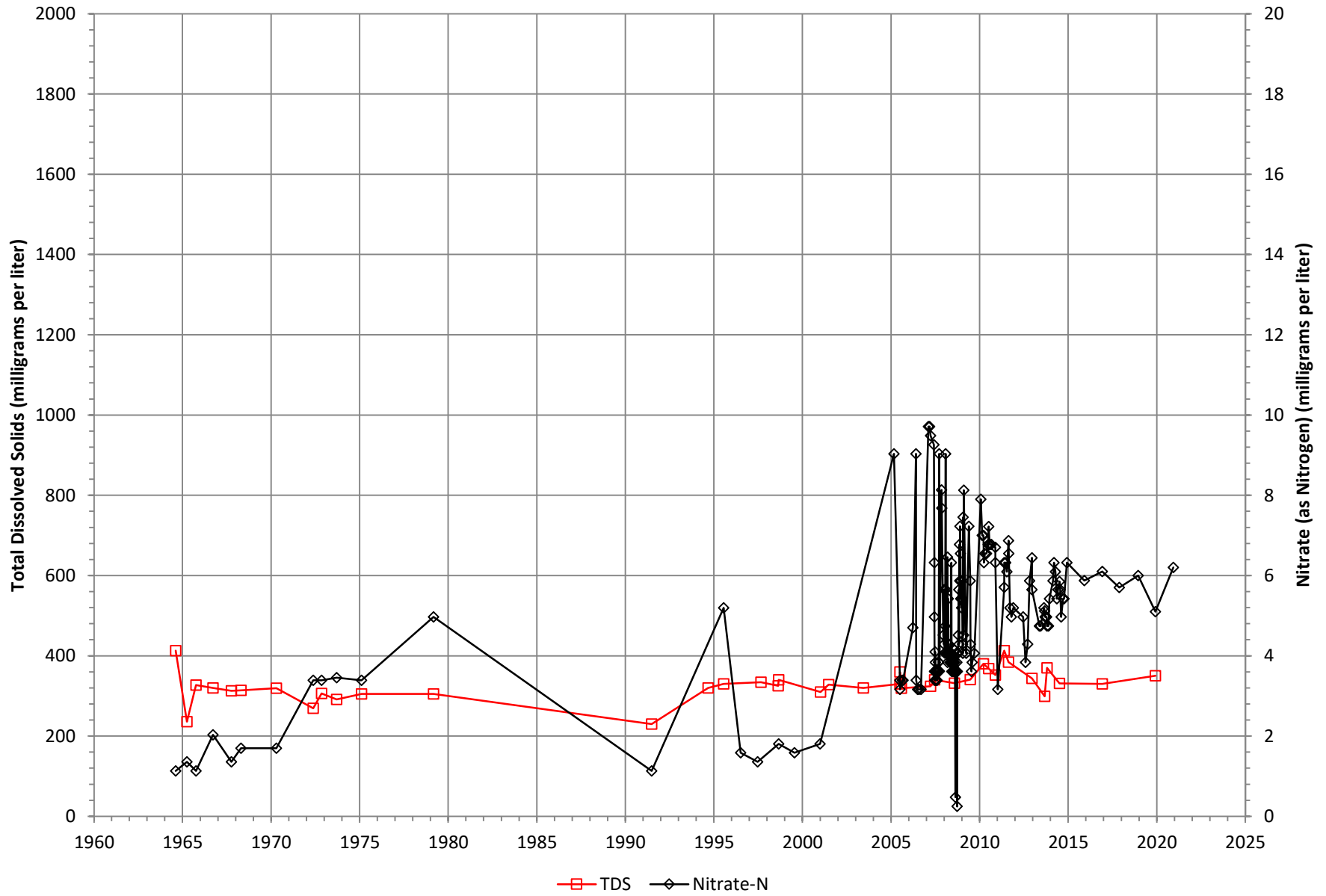
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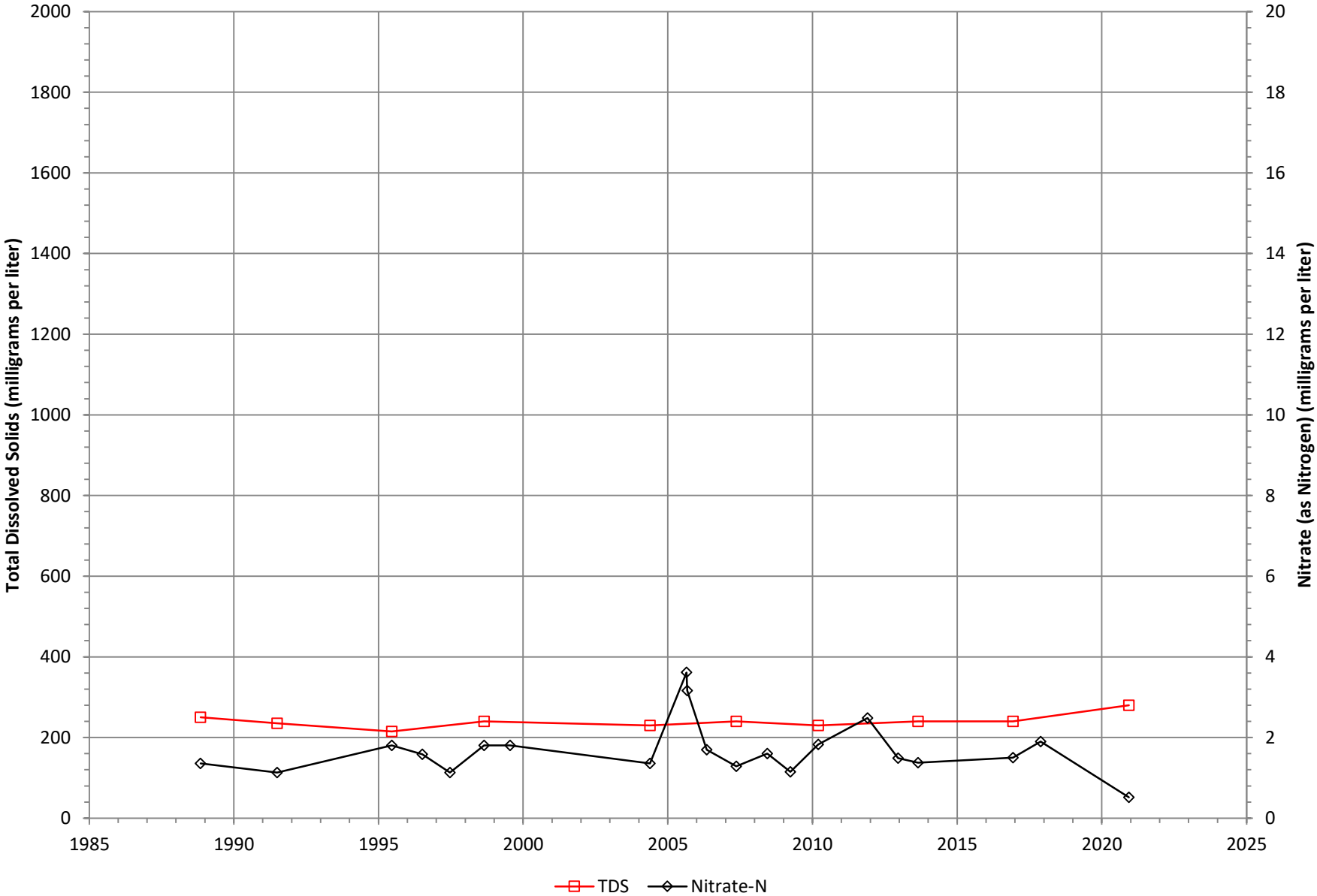
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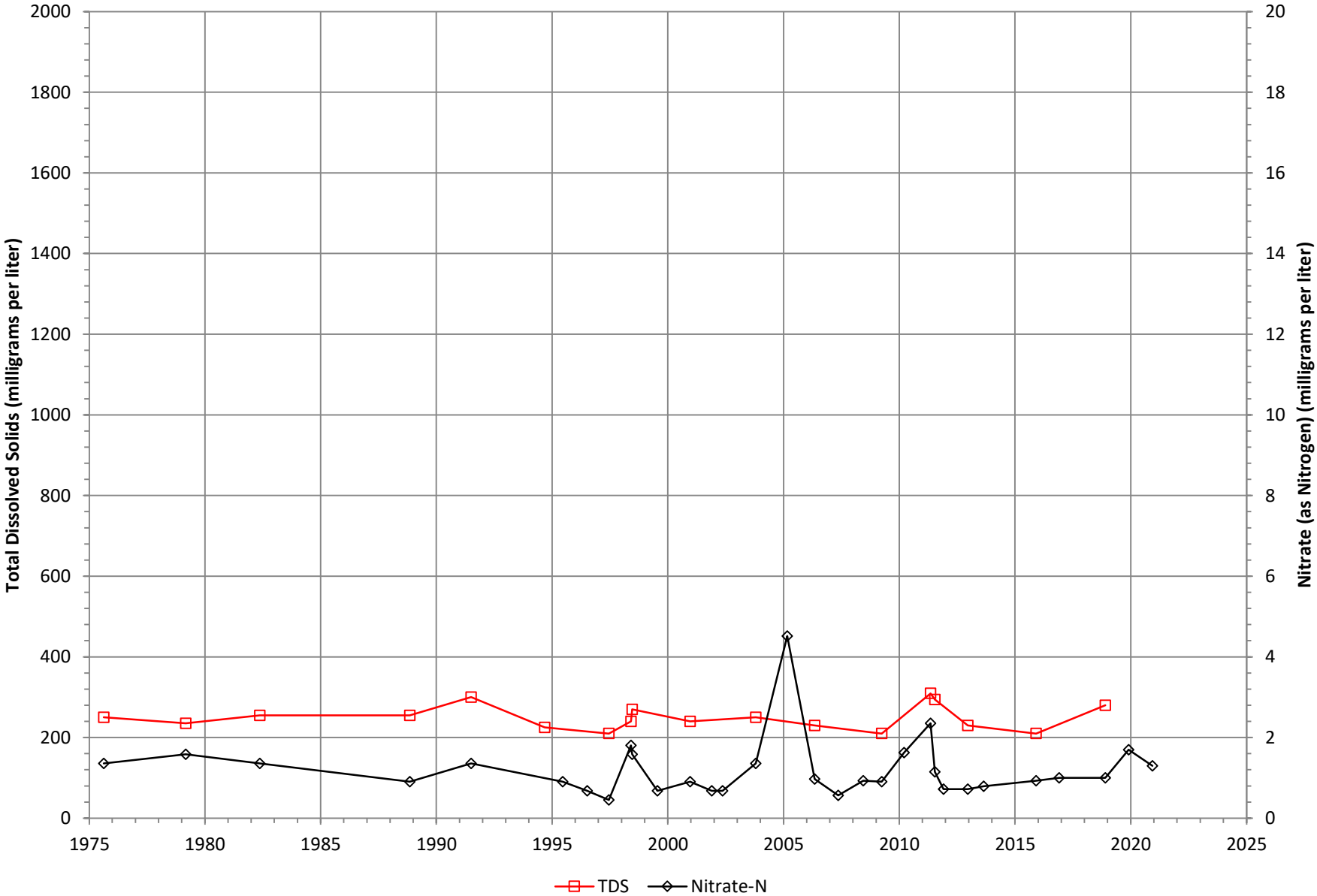
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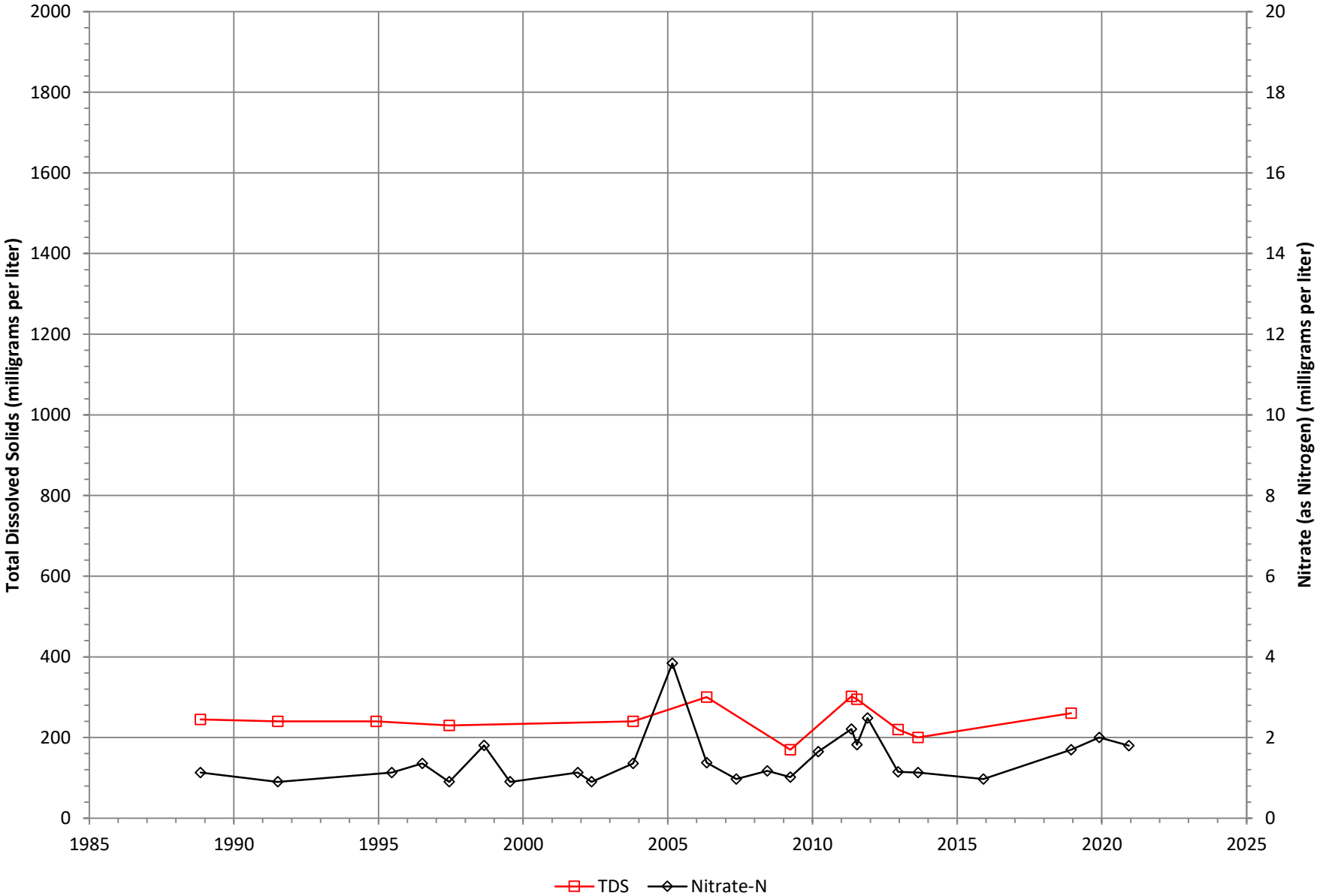
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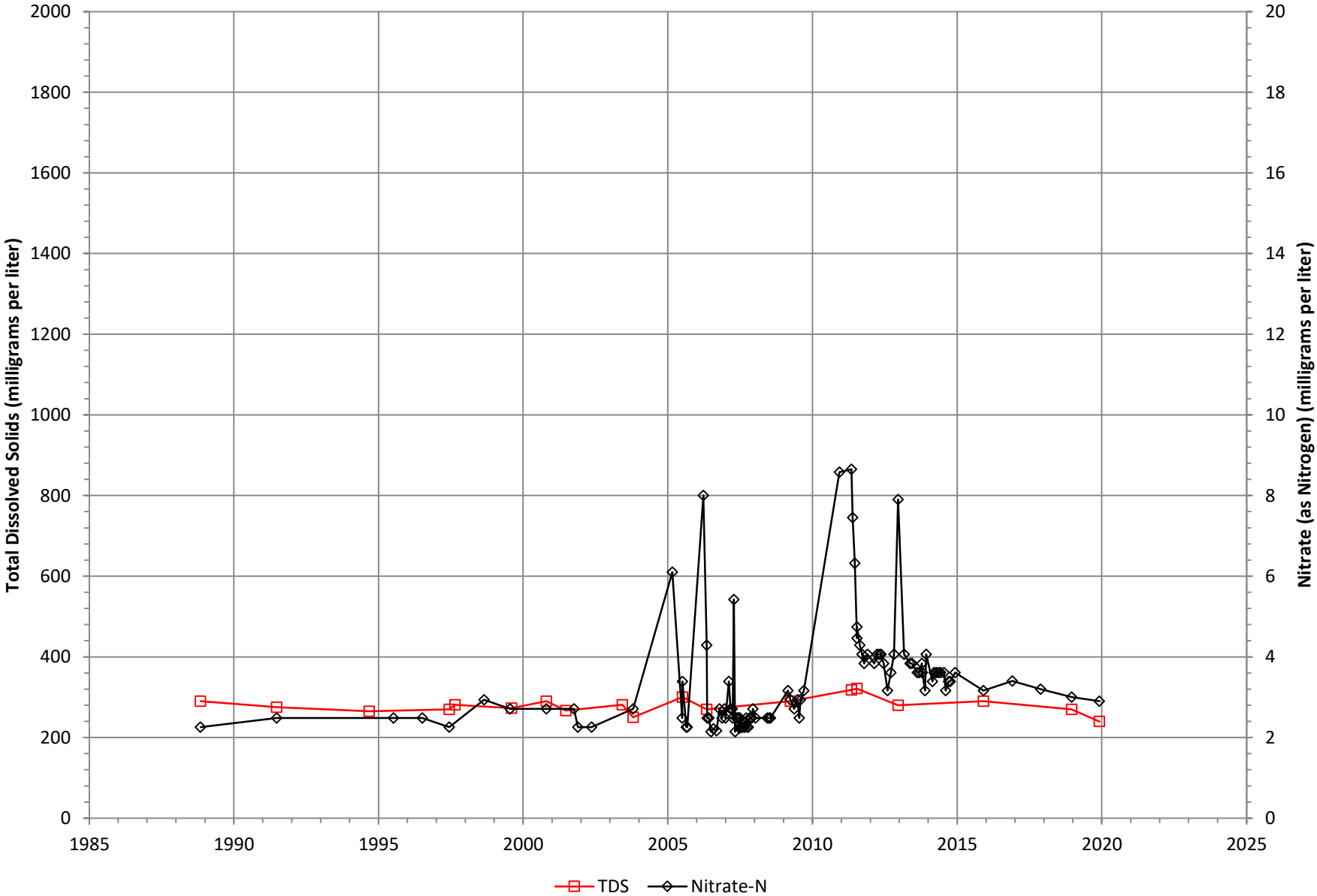
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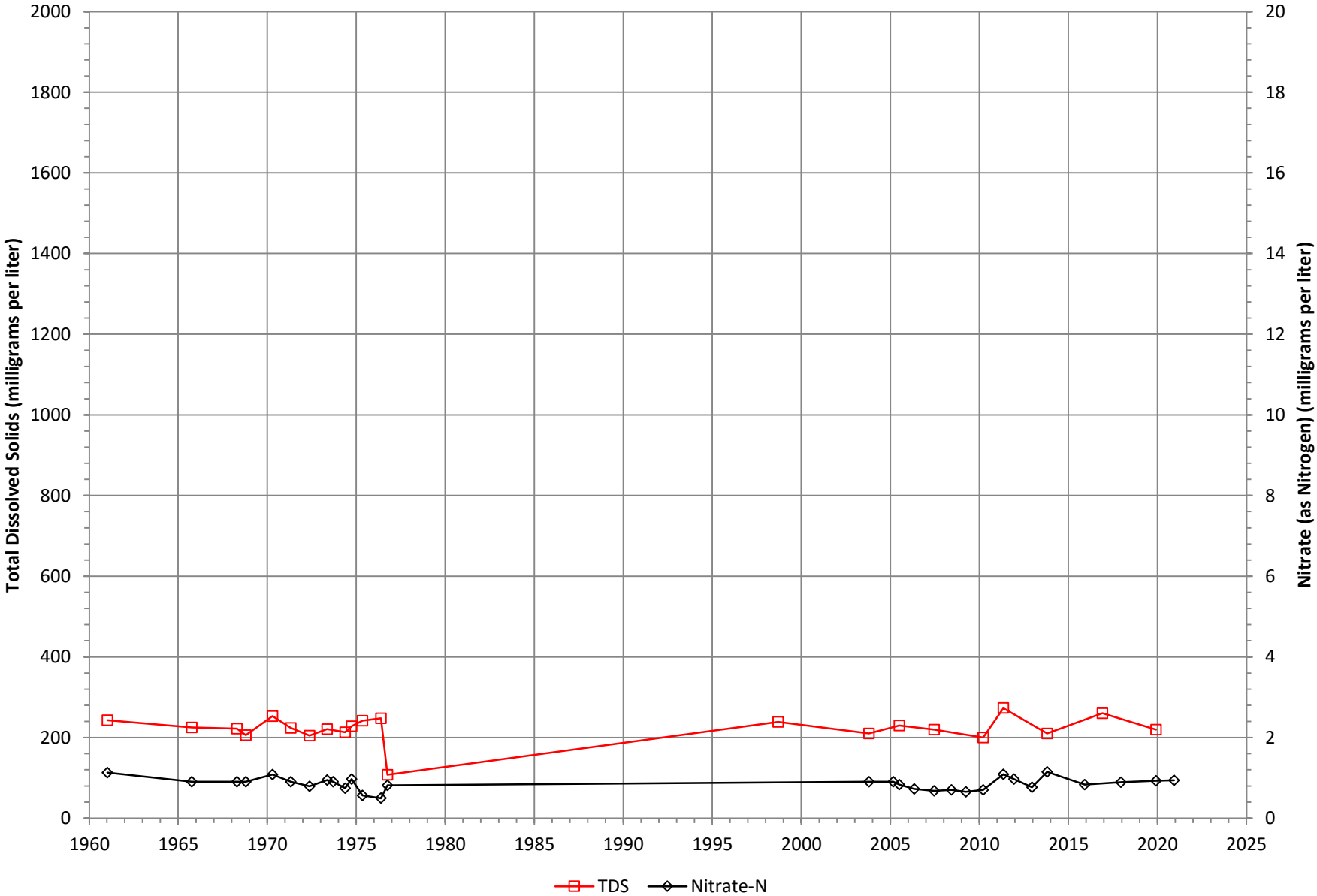
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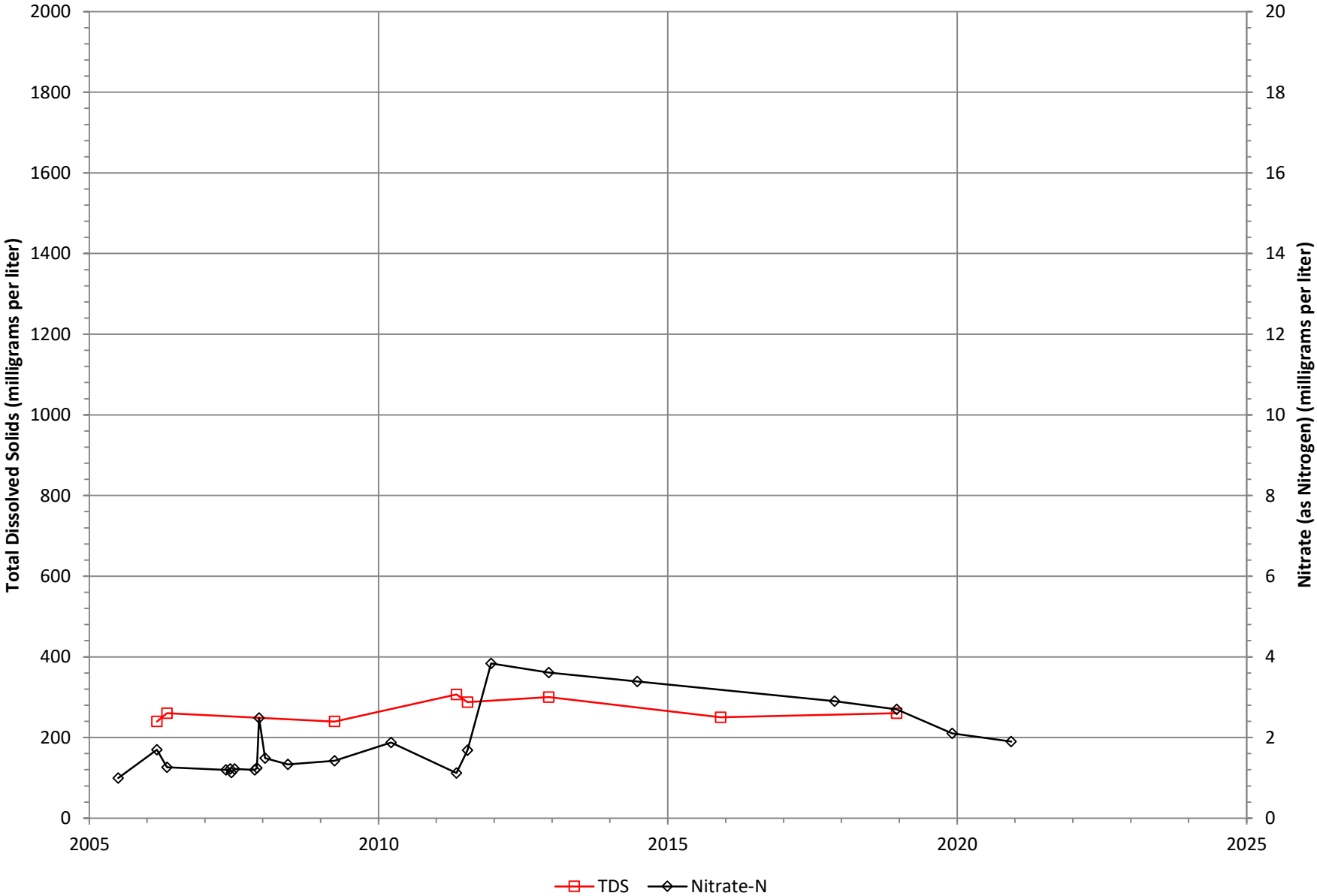
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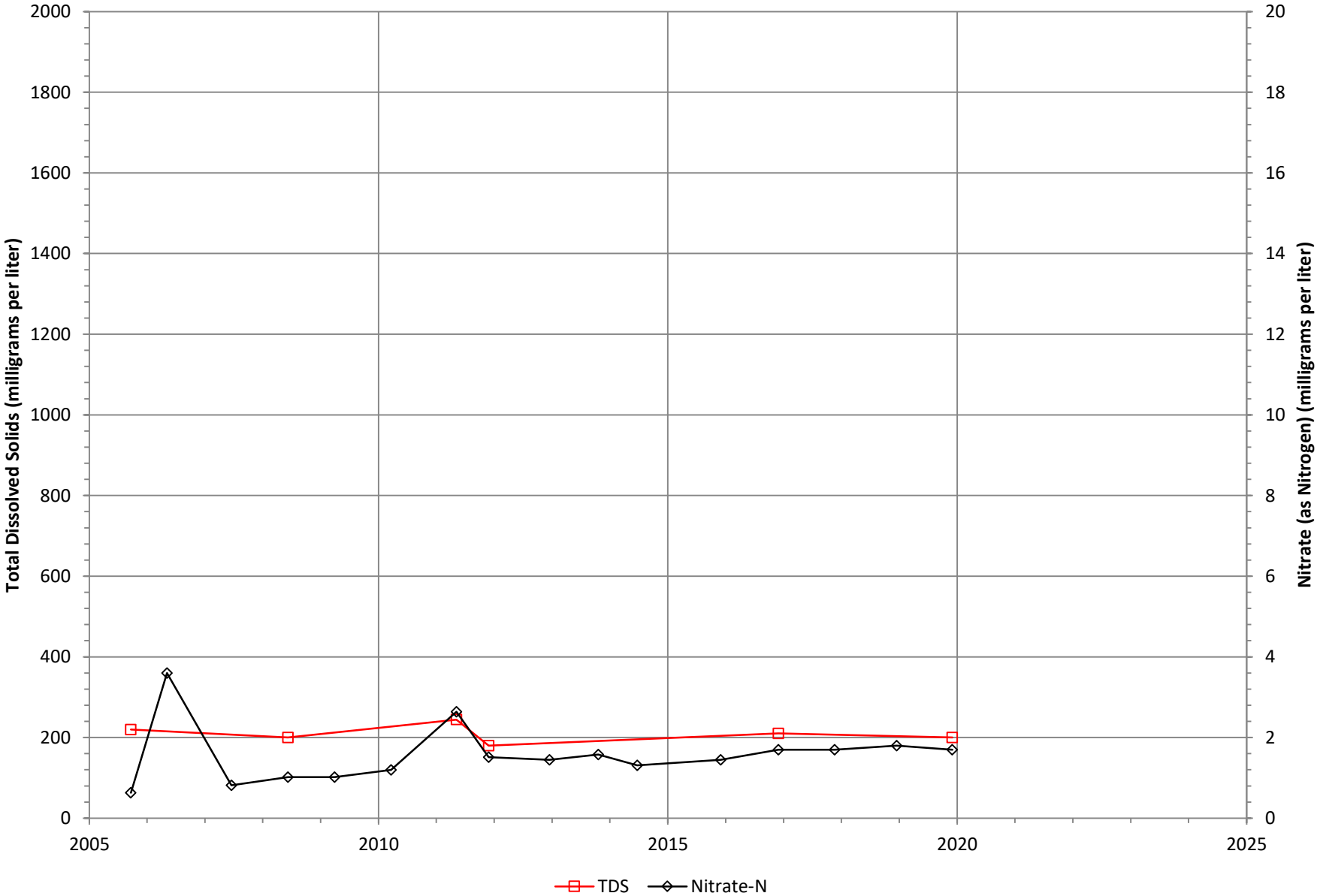
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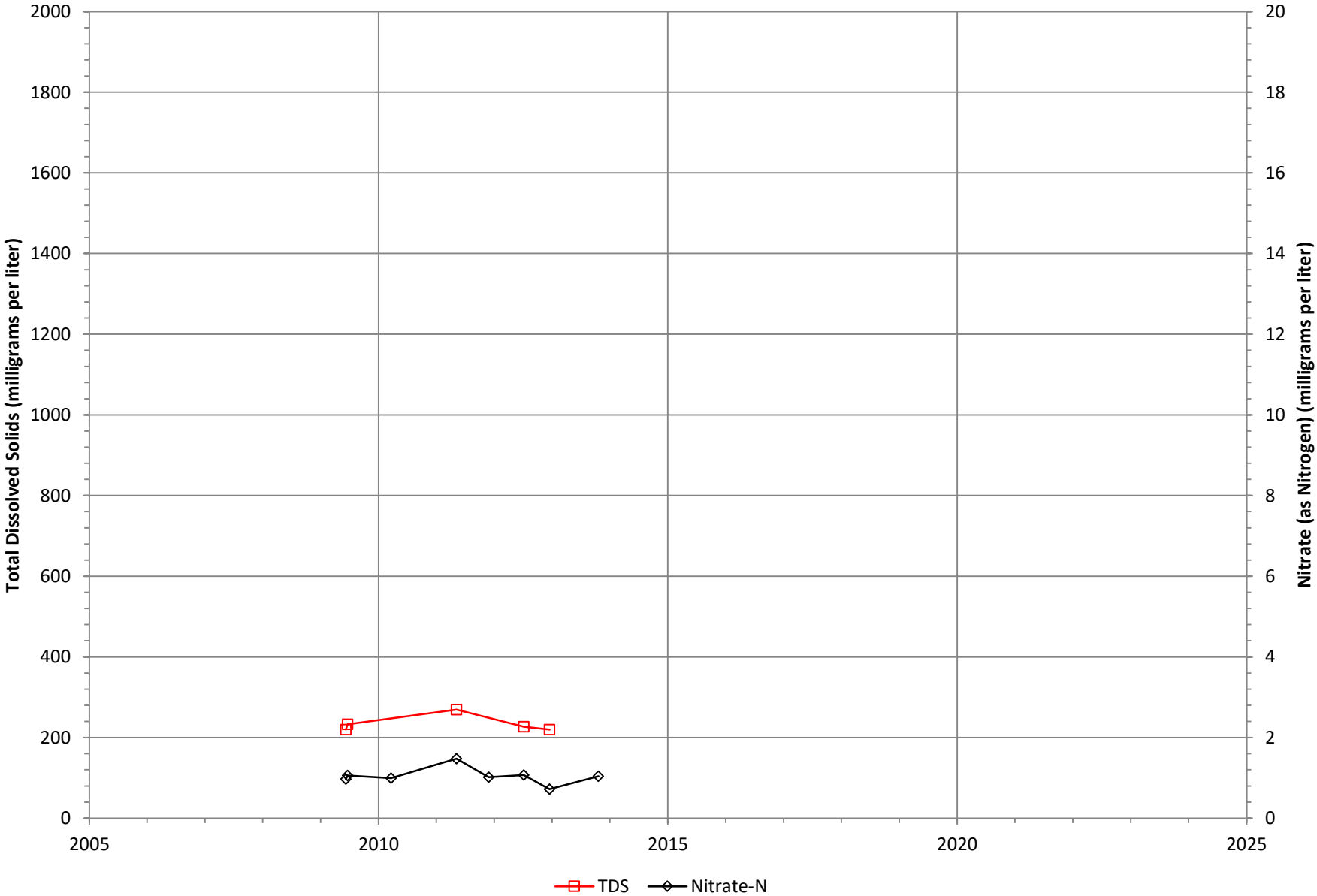
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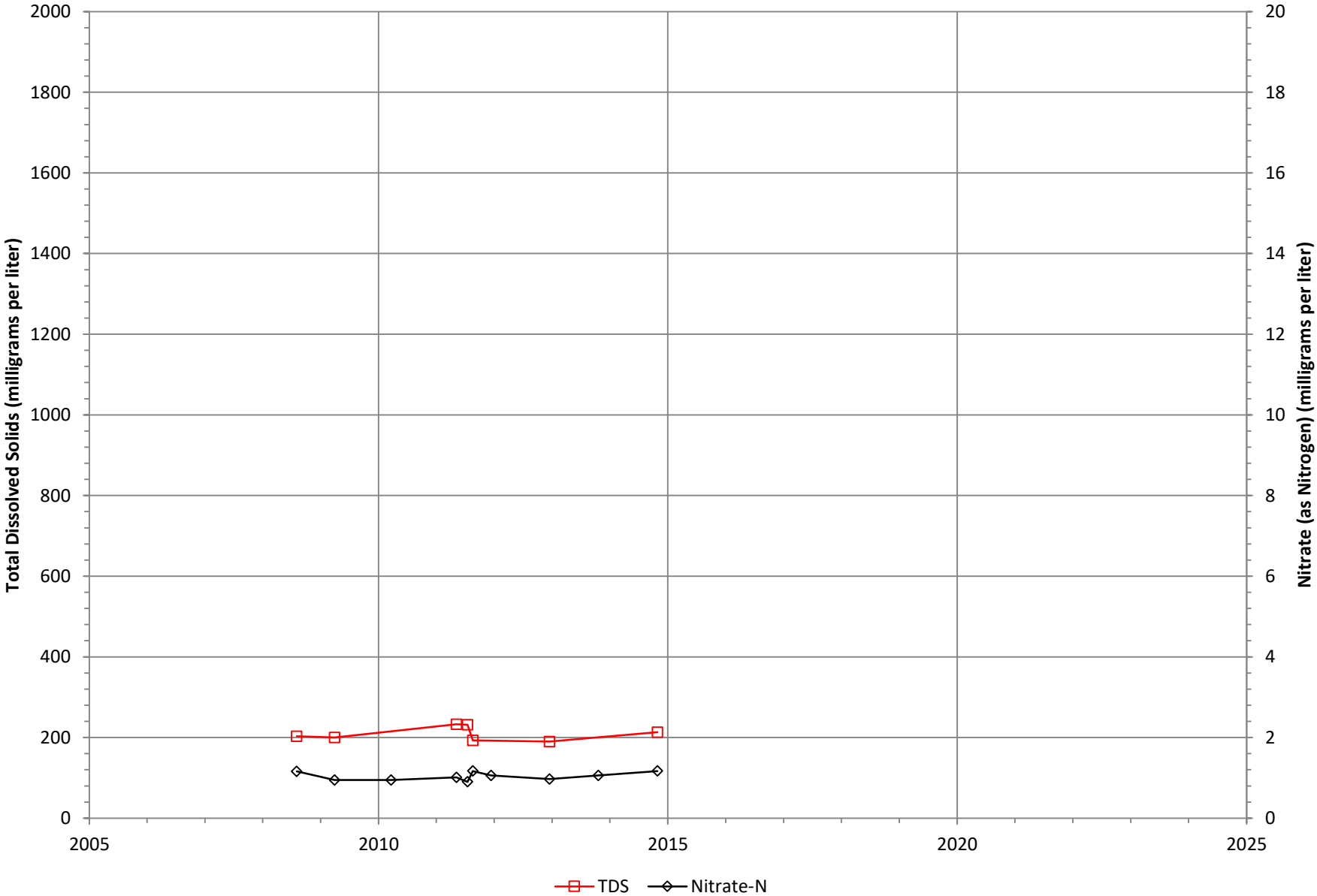
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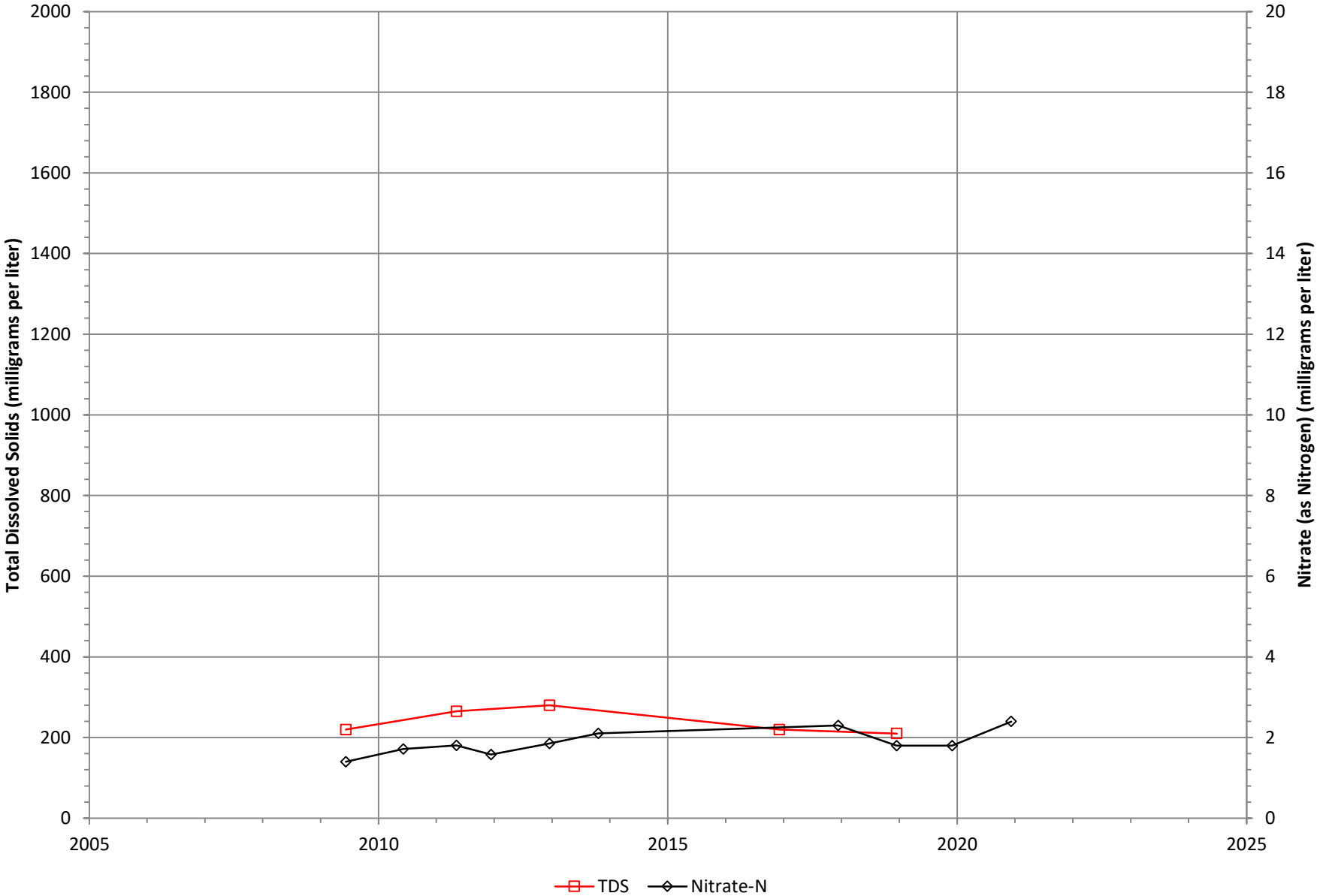
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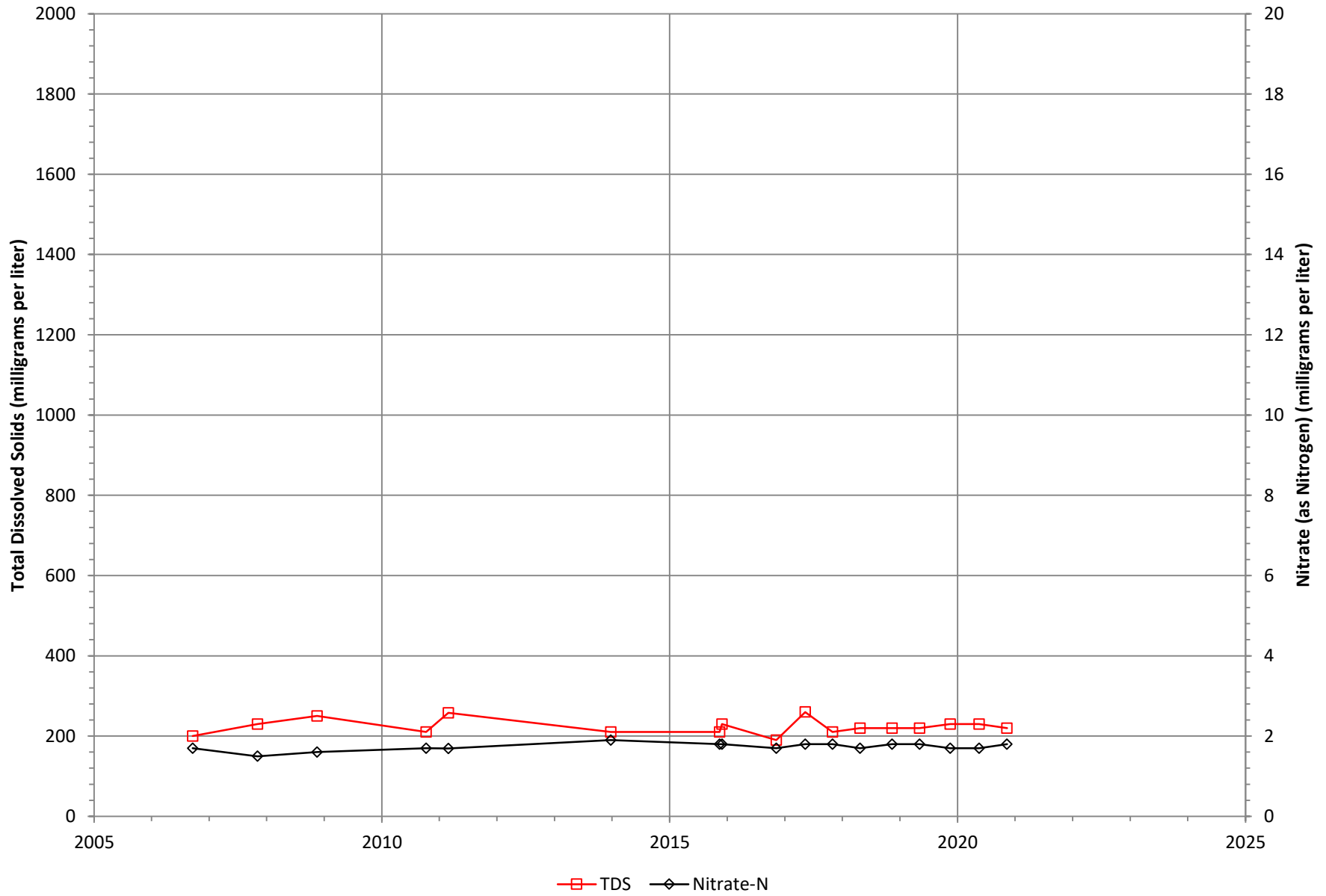
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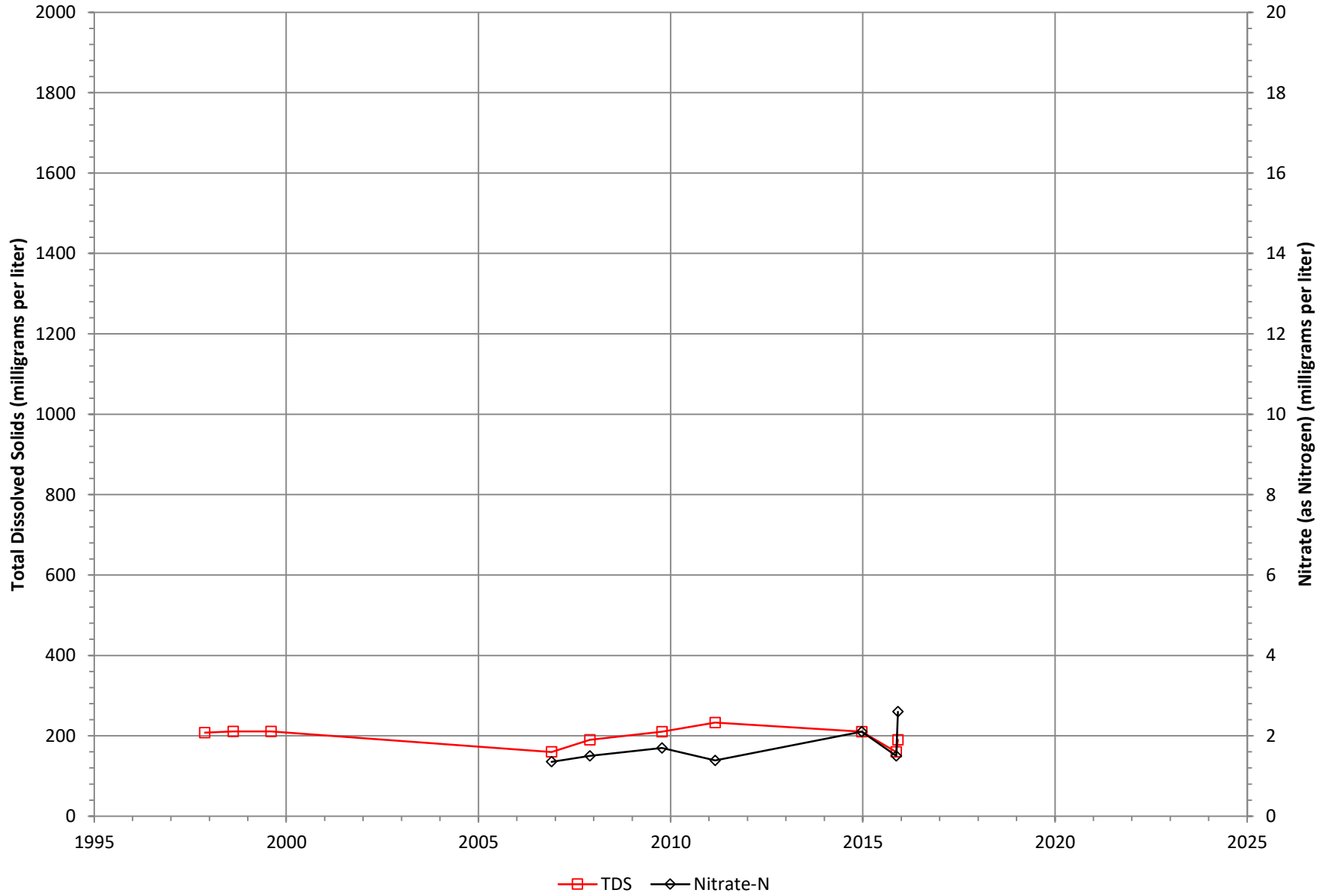
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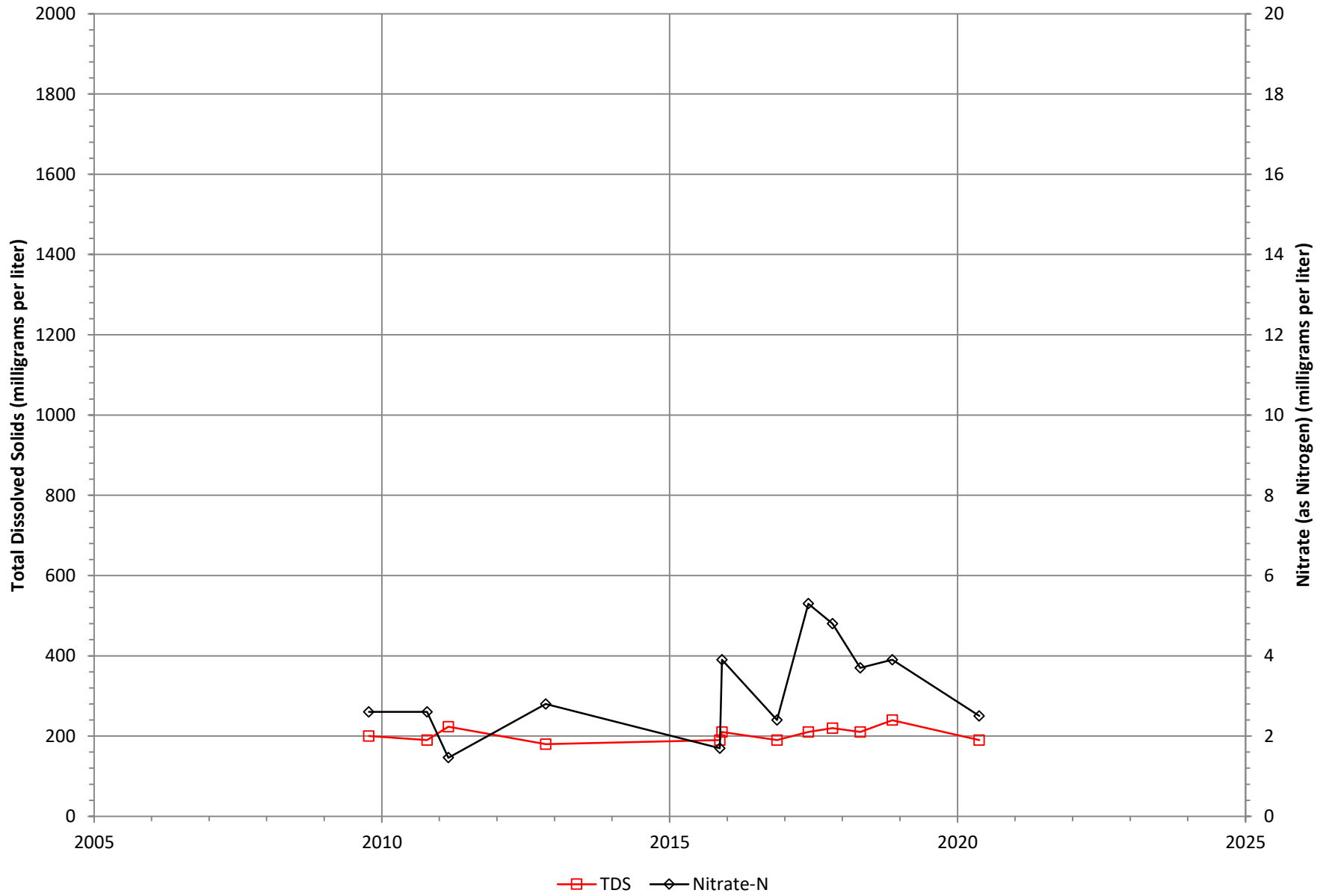
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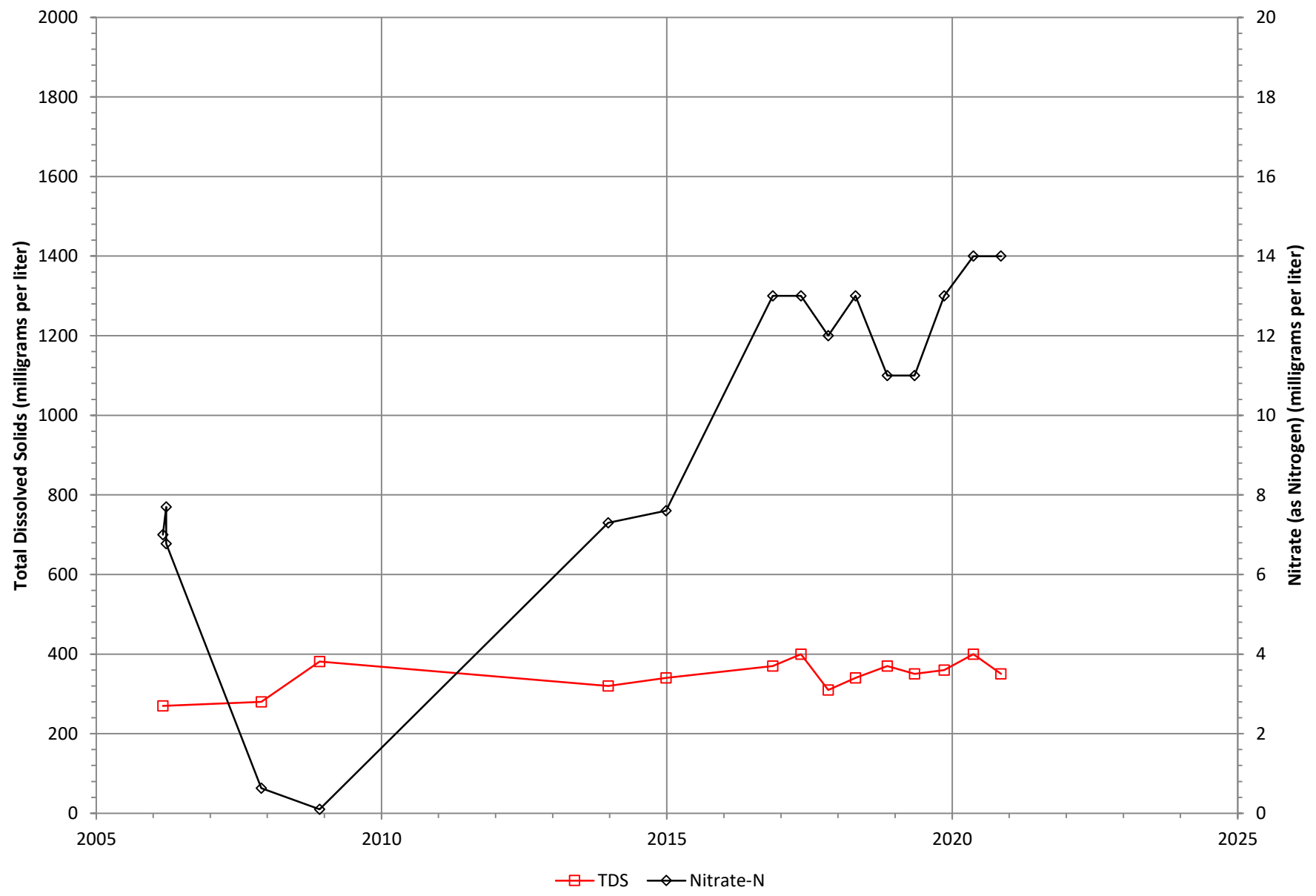
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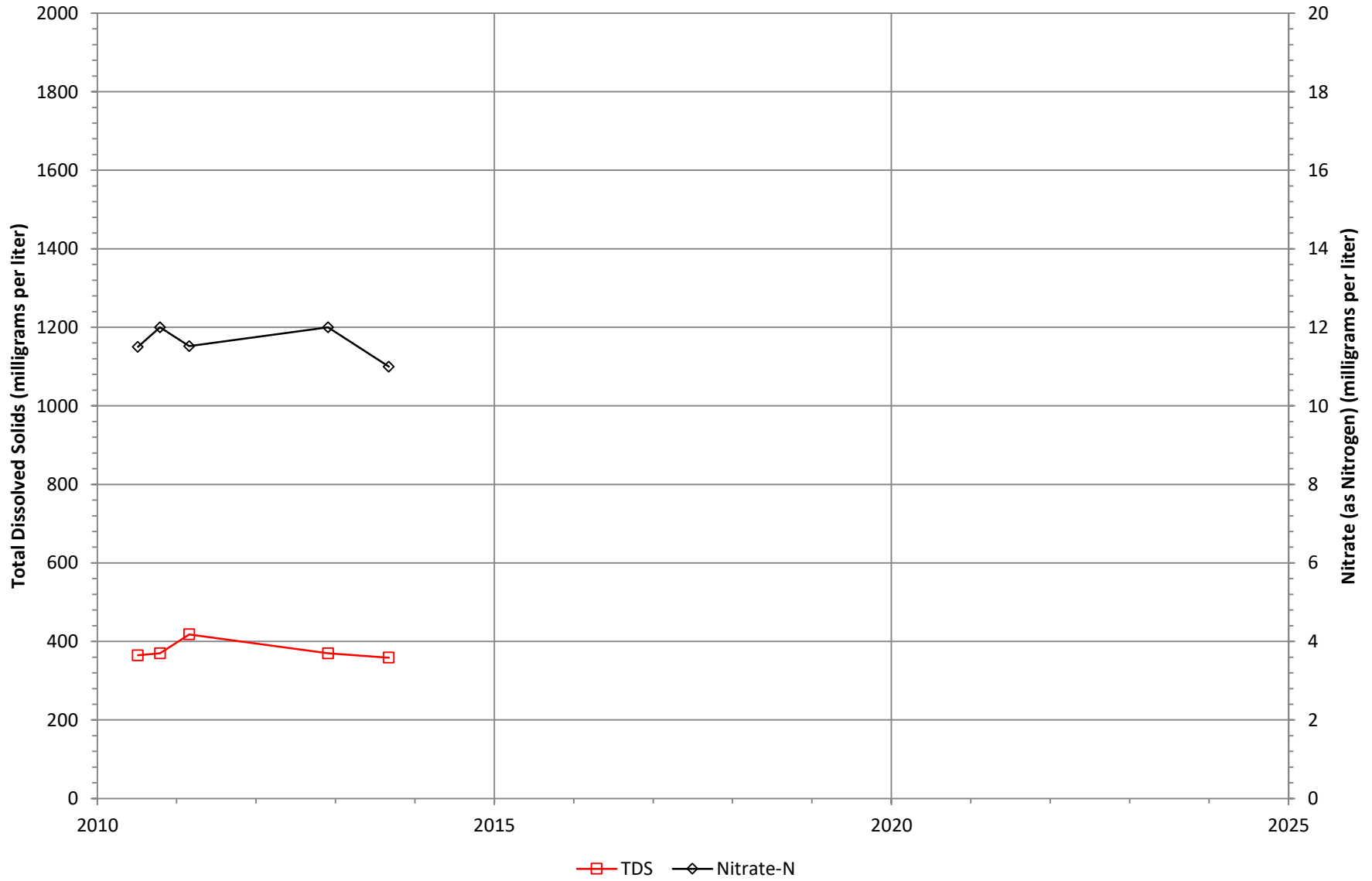
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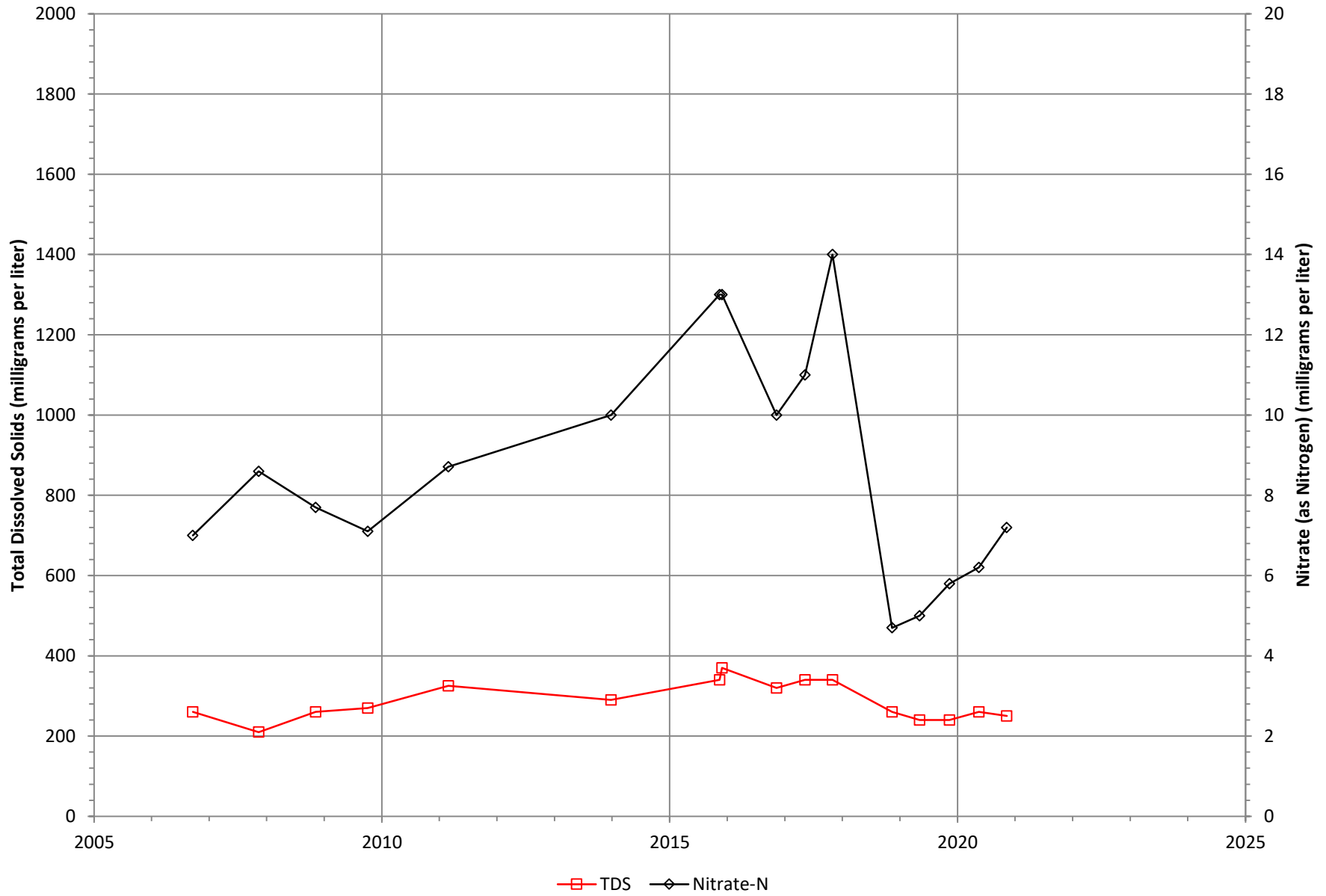
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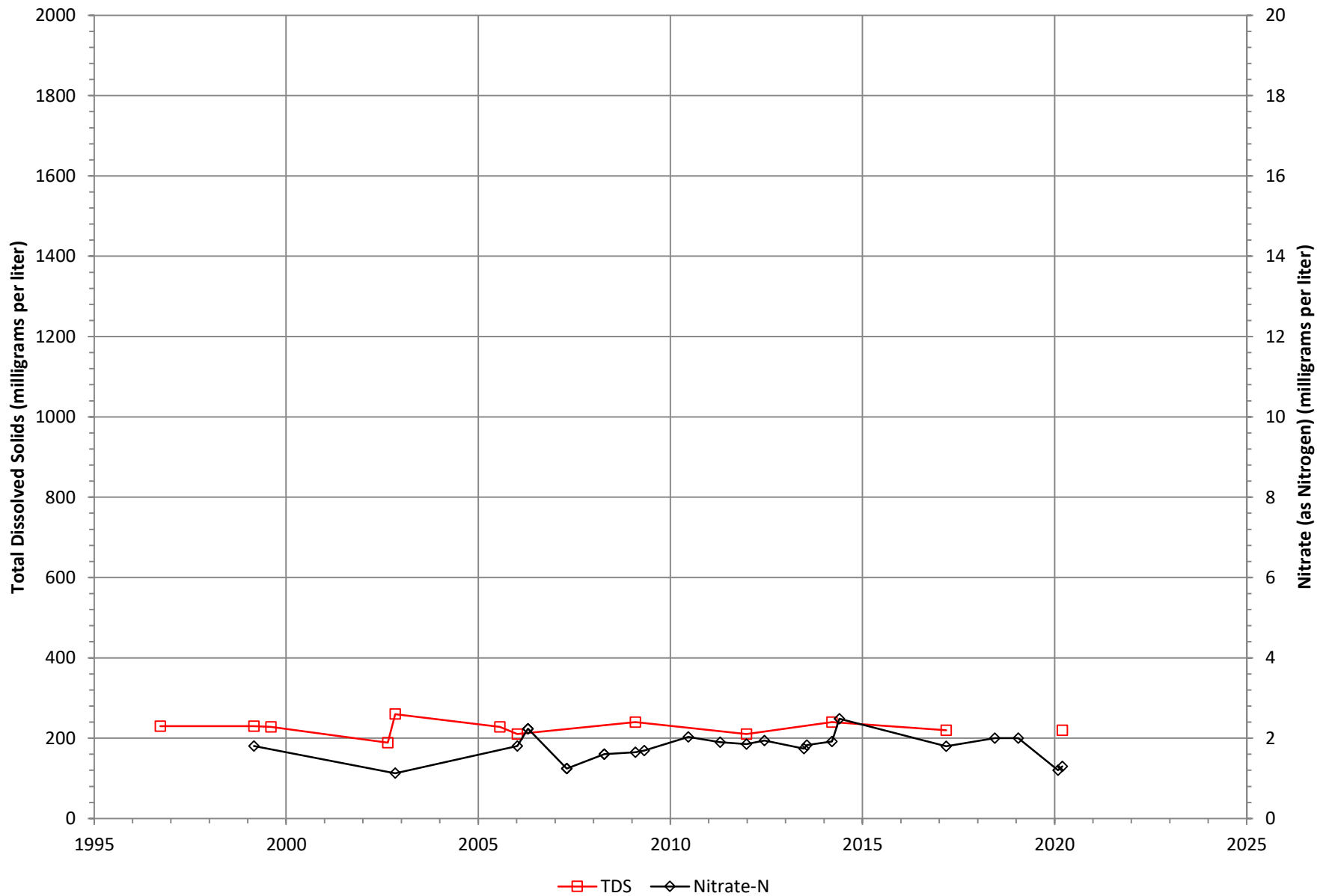
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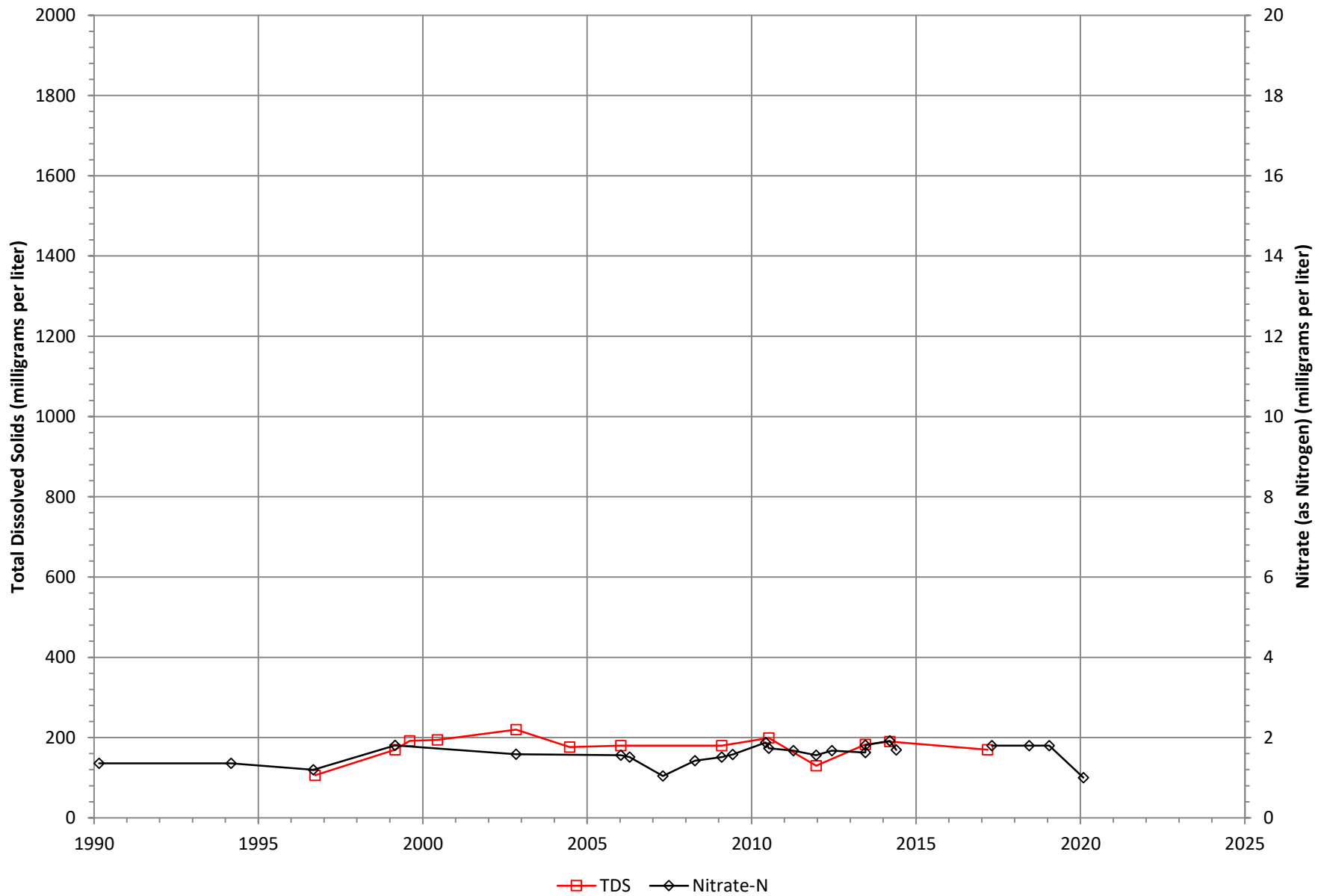
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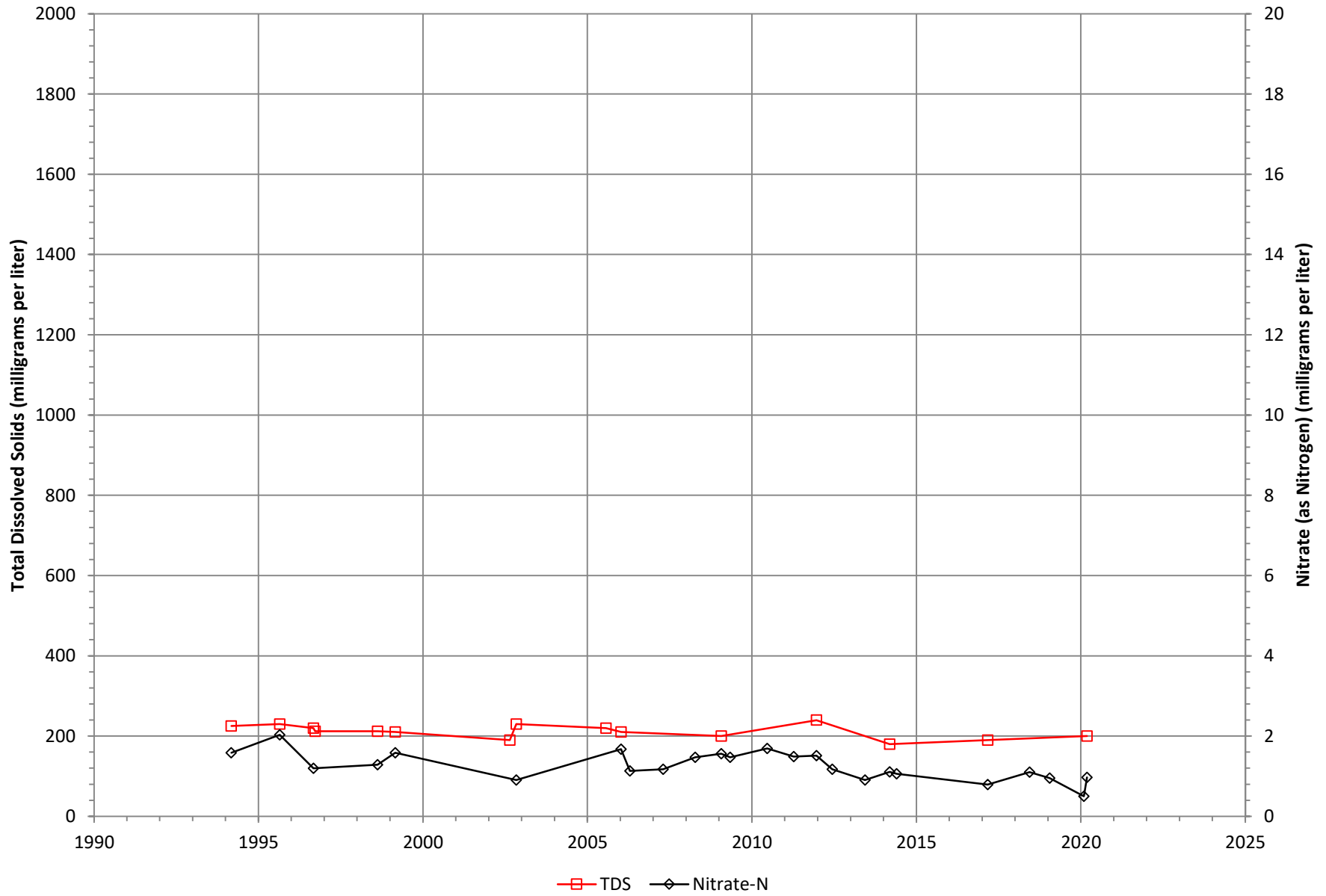
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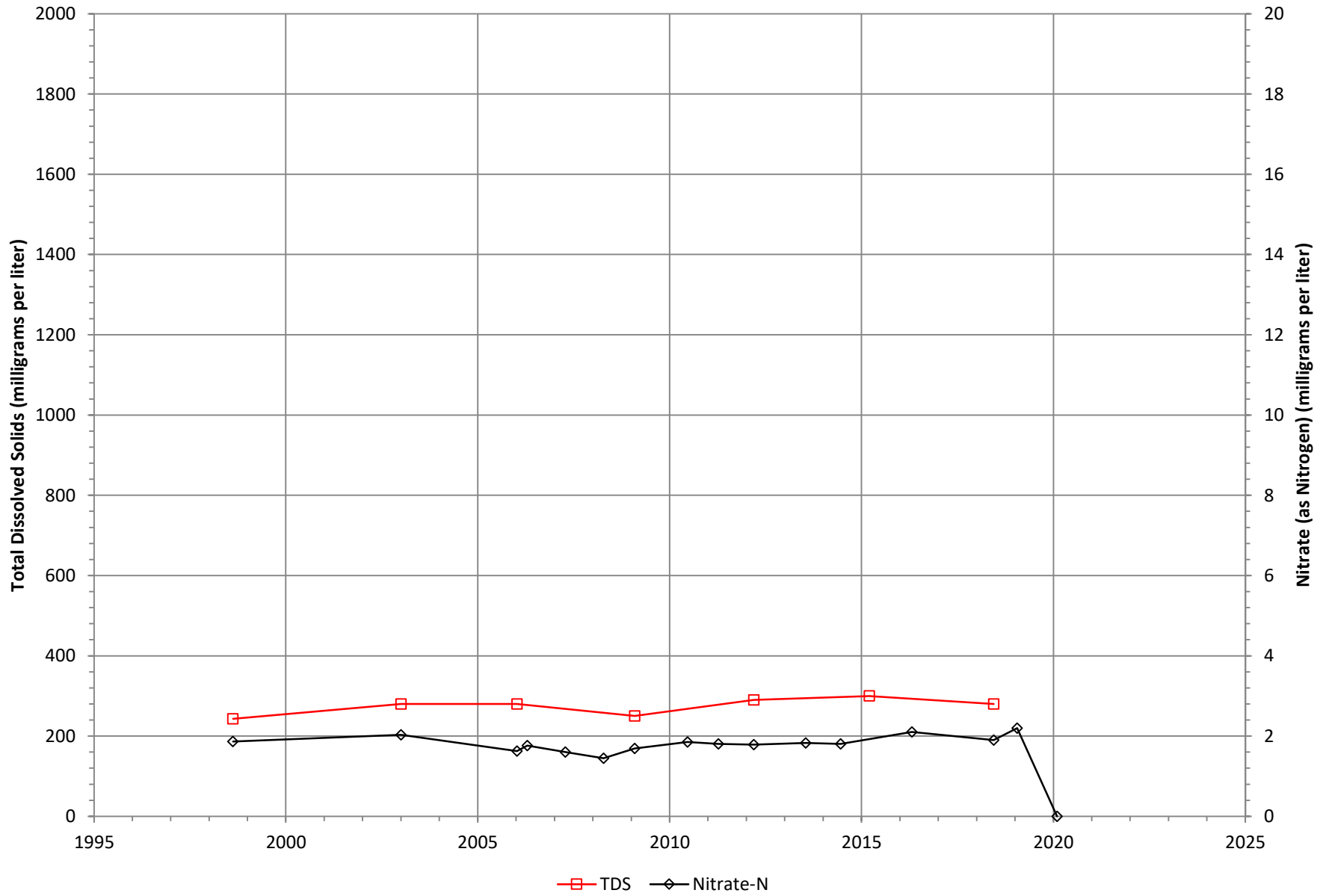
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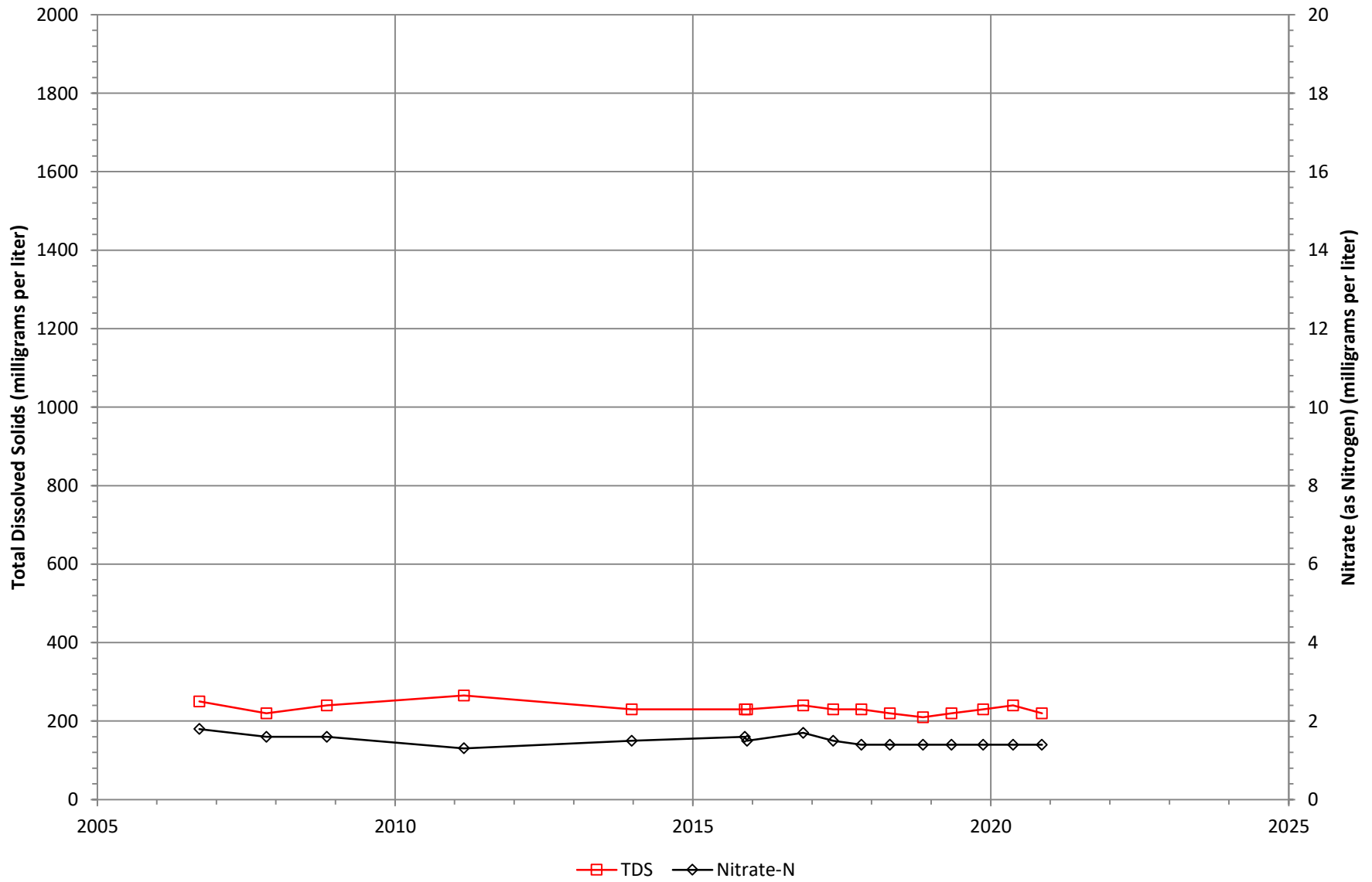
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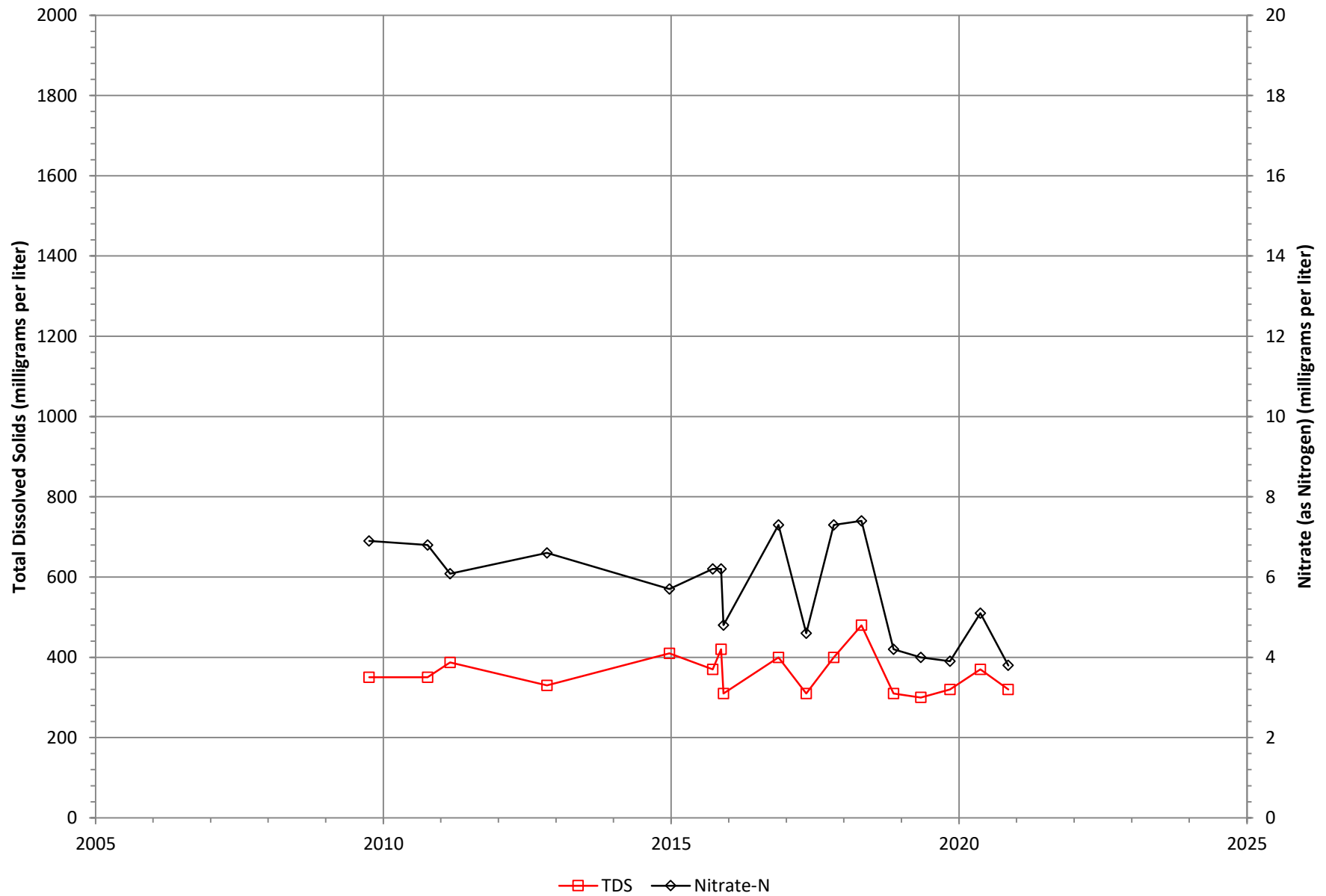
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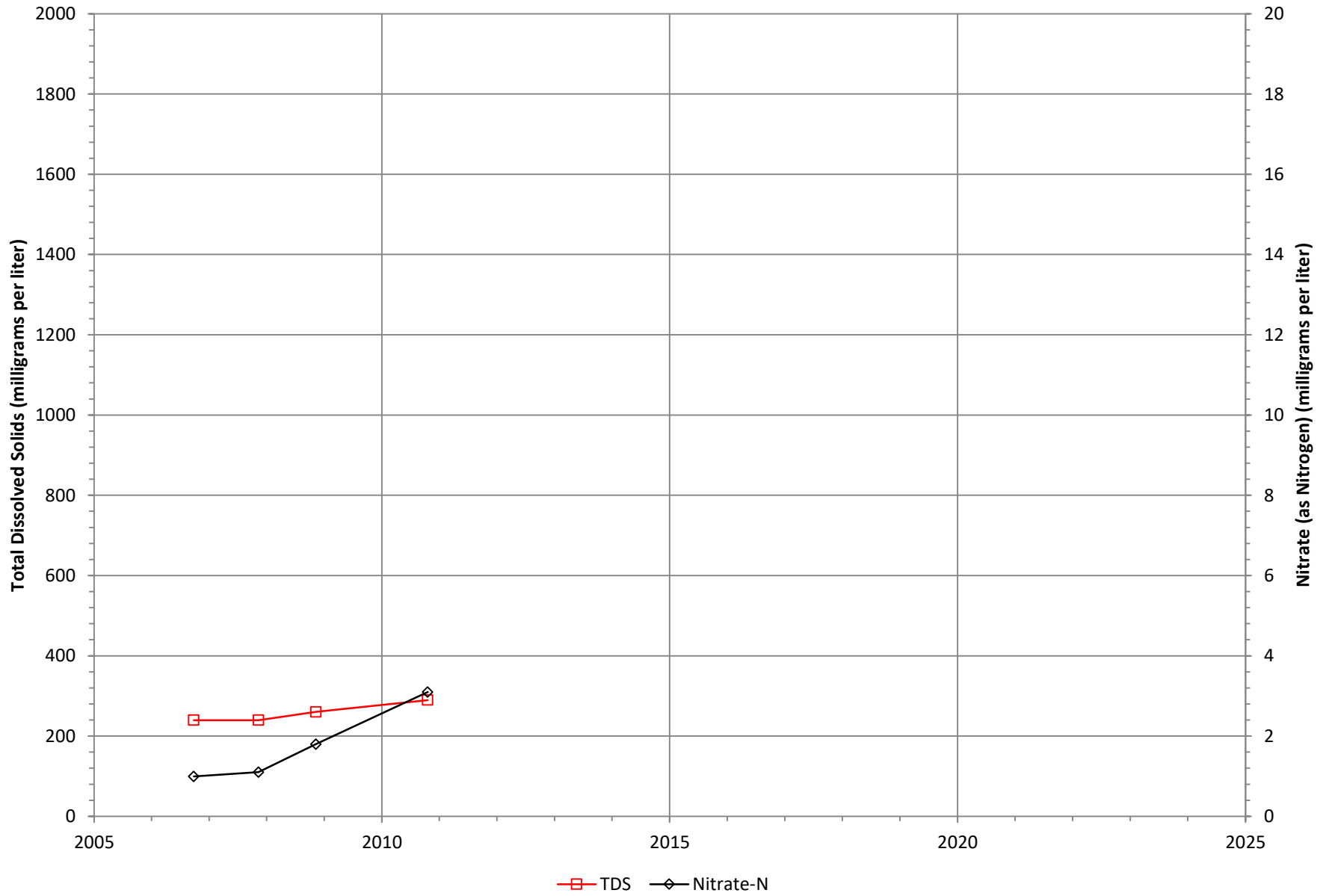
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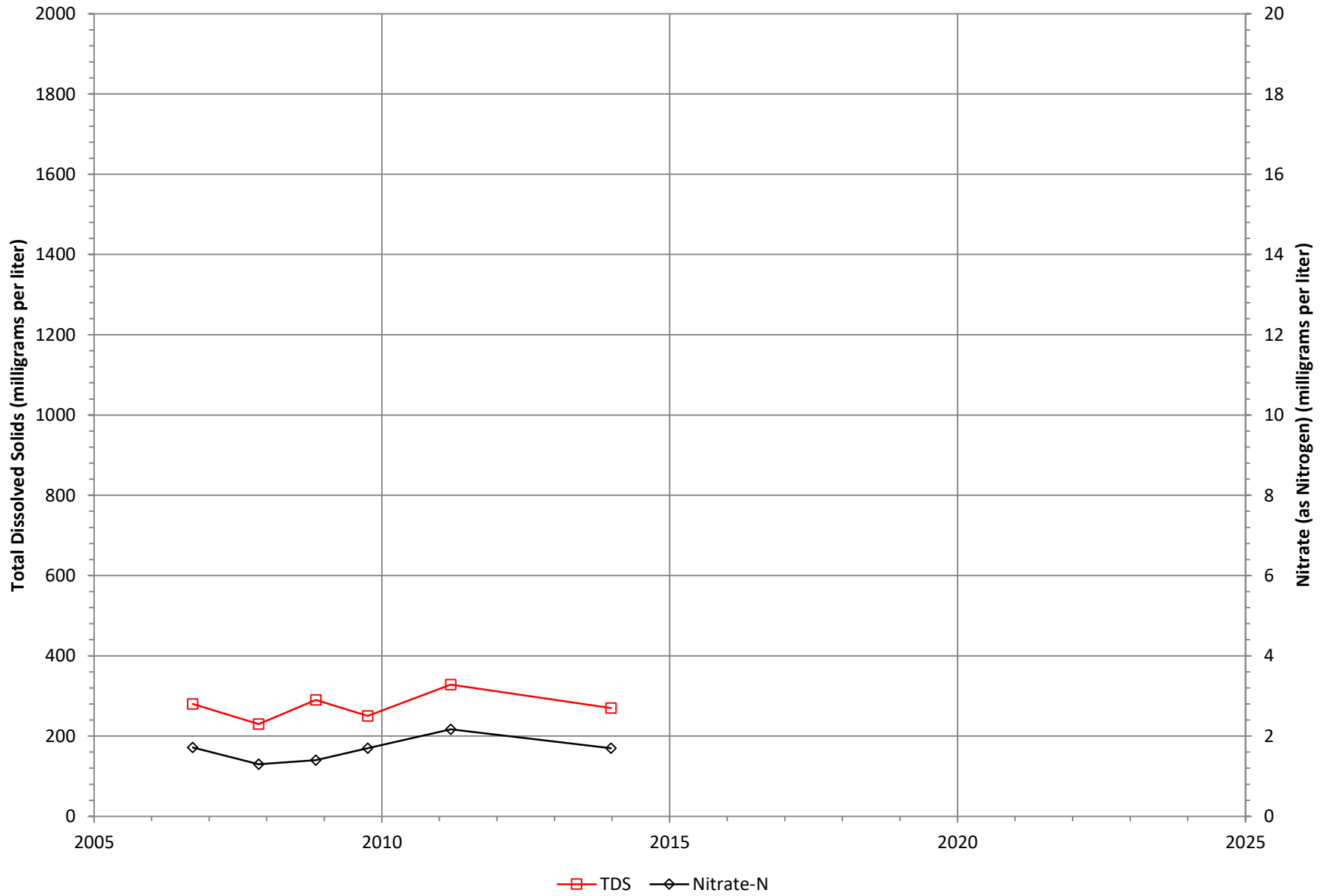
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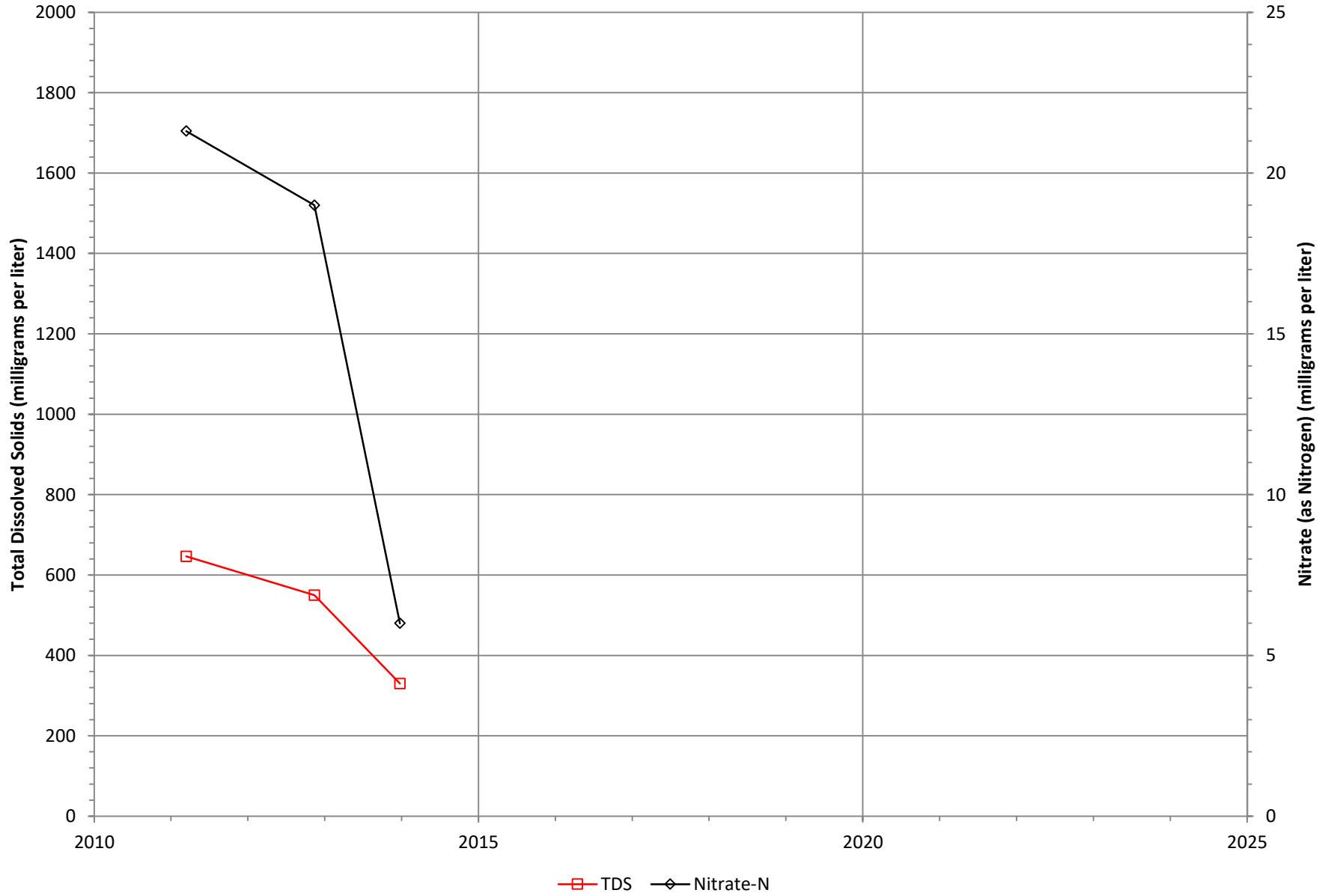
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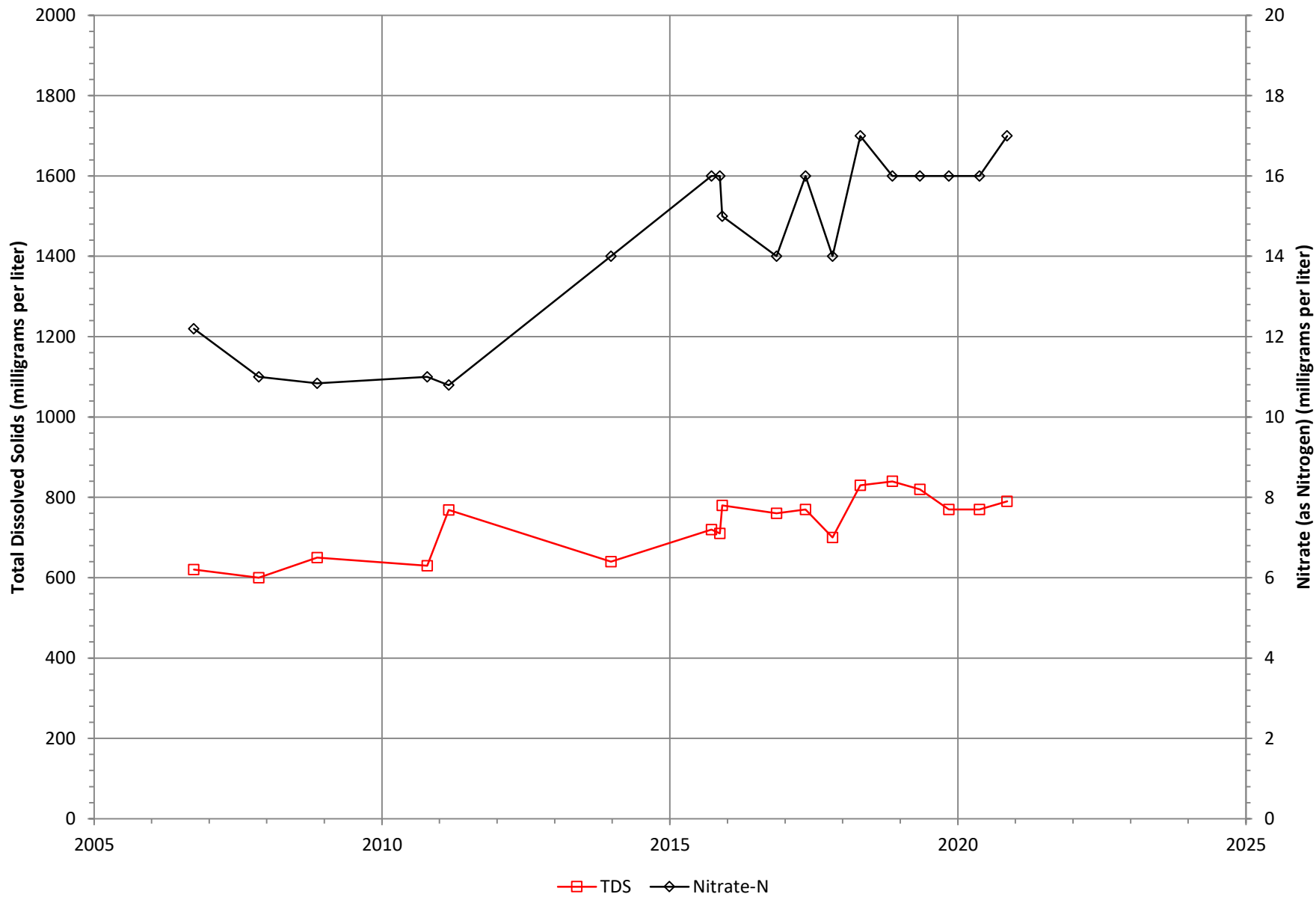
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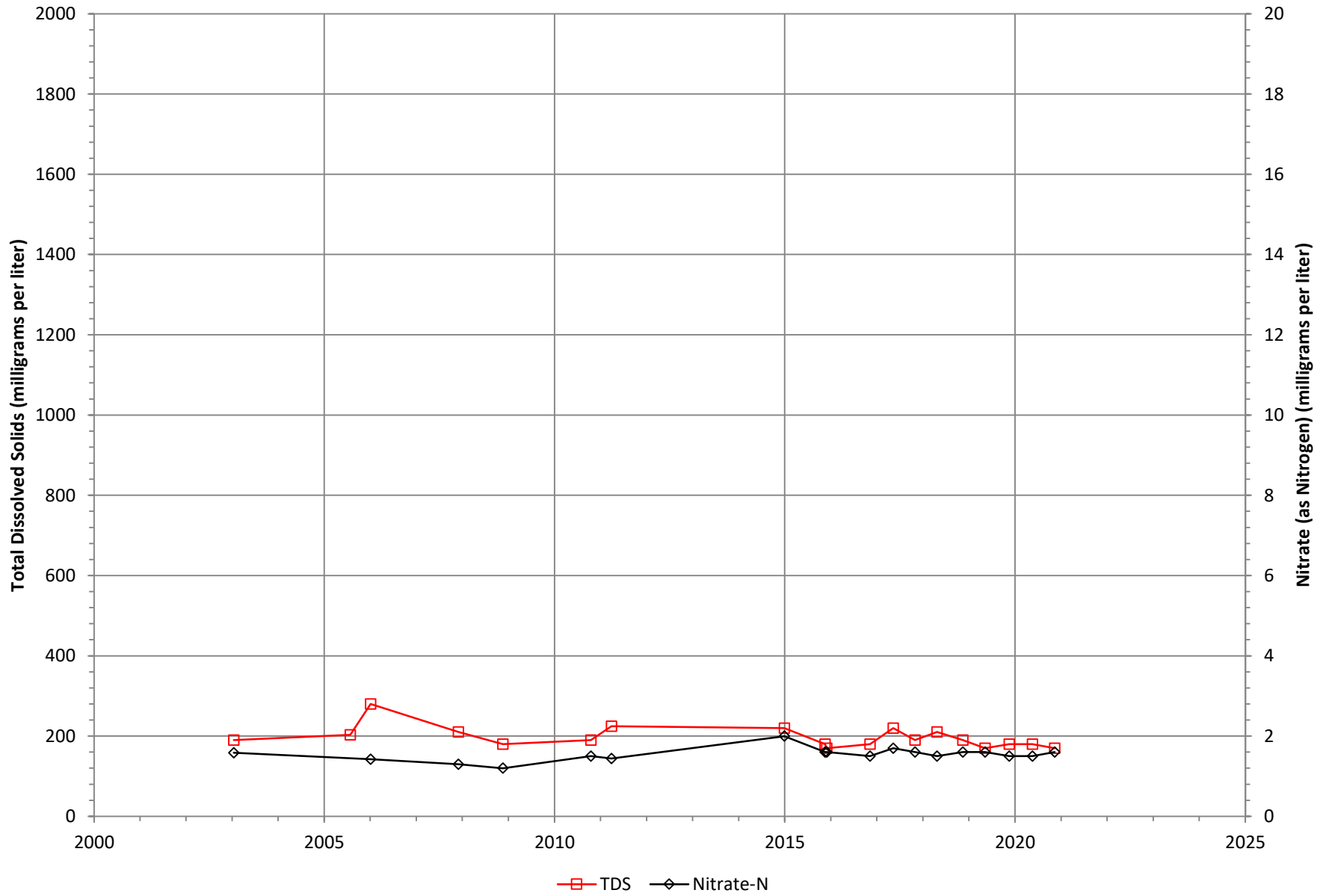
Total Dissolved Solids and Nitrate (as Nitrogen) at Well Magallon, Jorge



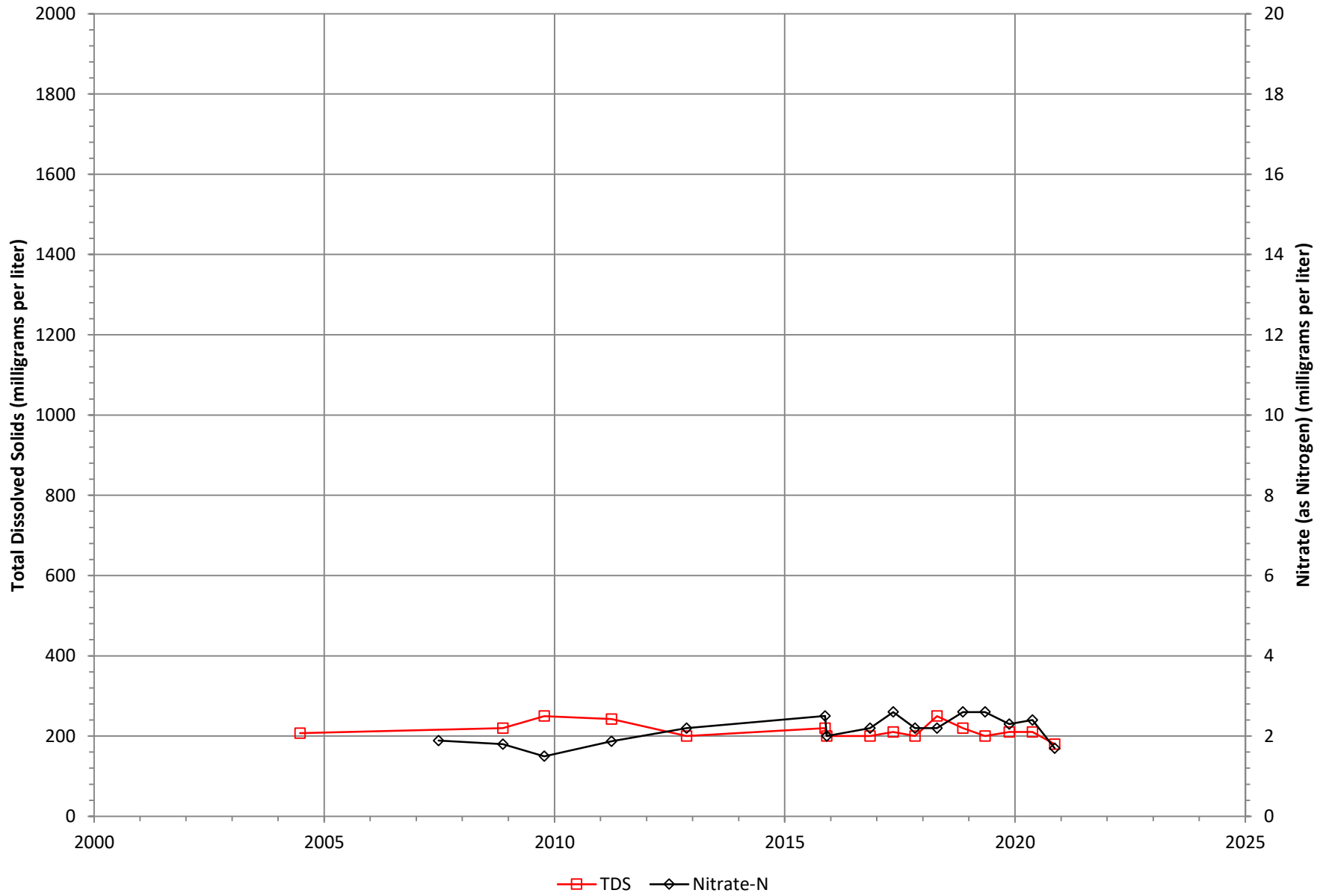
Total Dissolved Solids and Nitrate (as N) at MCM Poultry Ranch Well



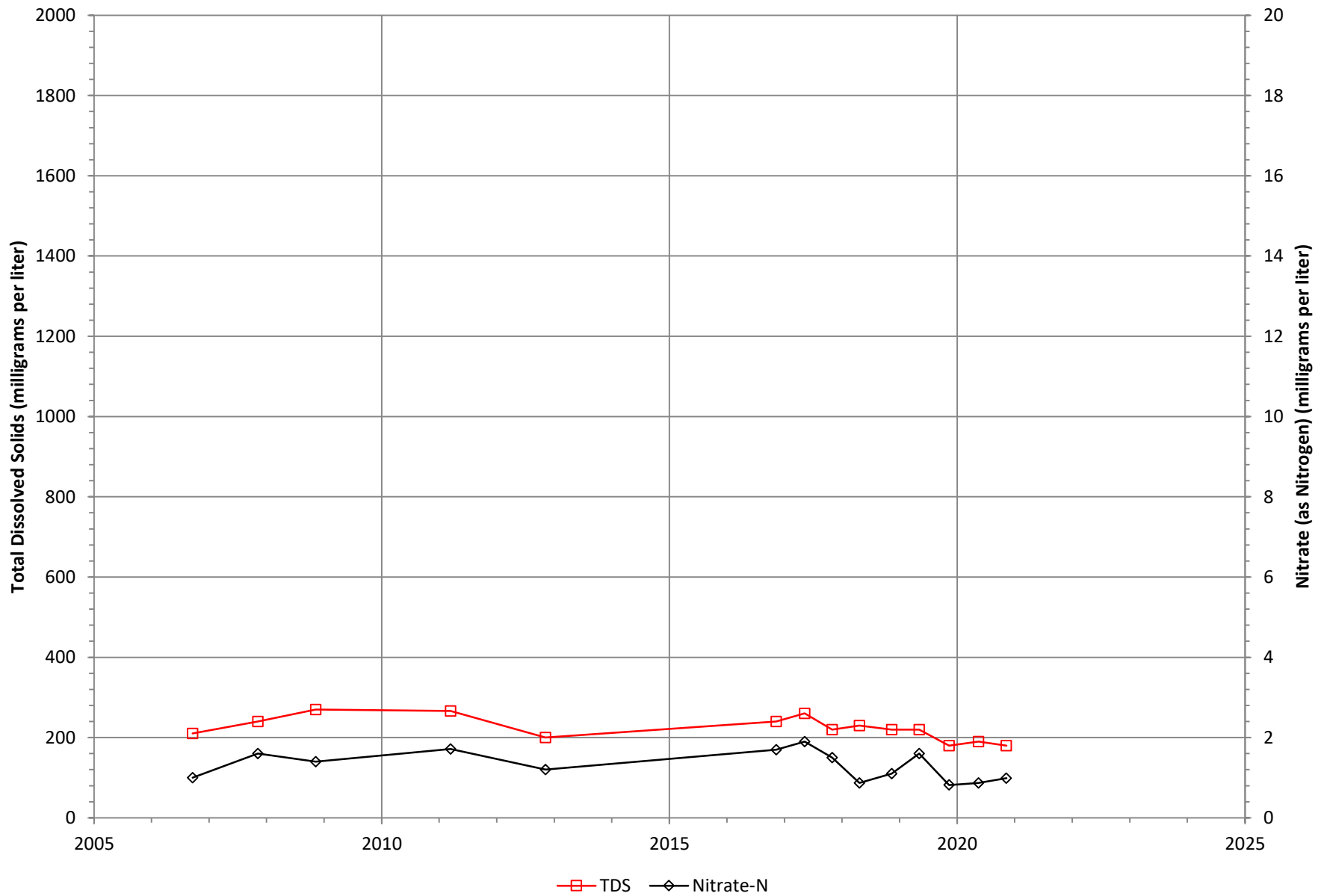
Total Dissolved Solids and Nitrate (as Nitrogen) at Morongo Well A



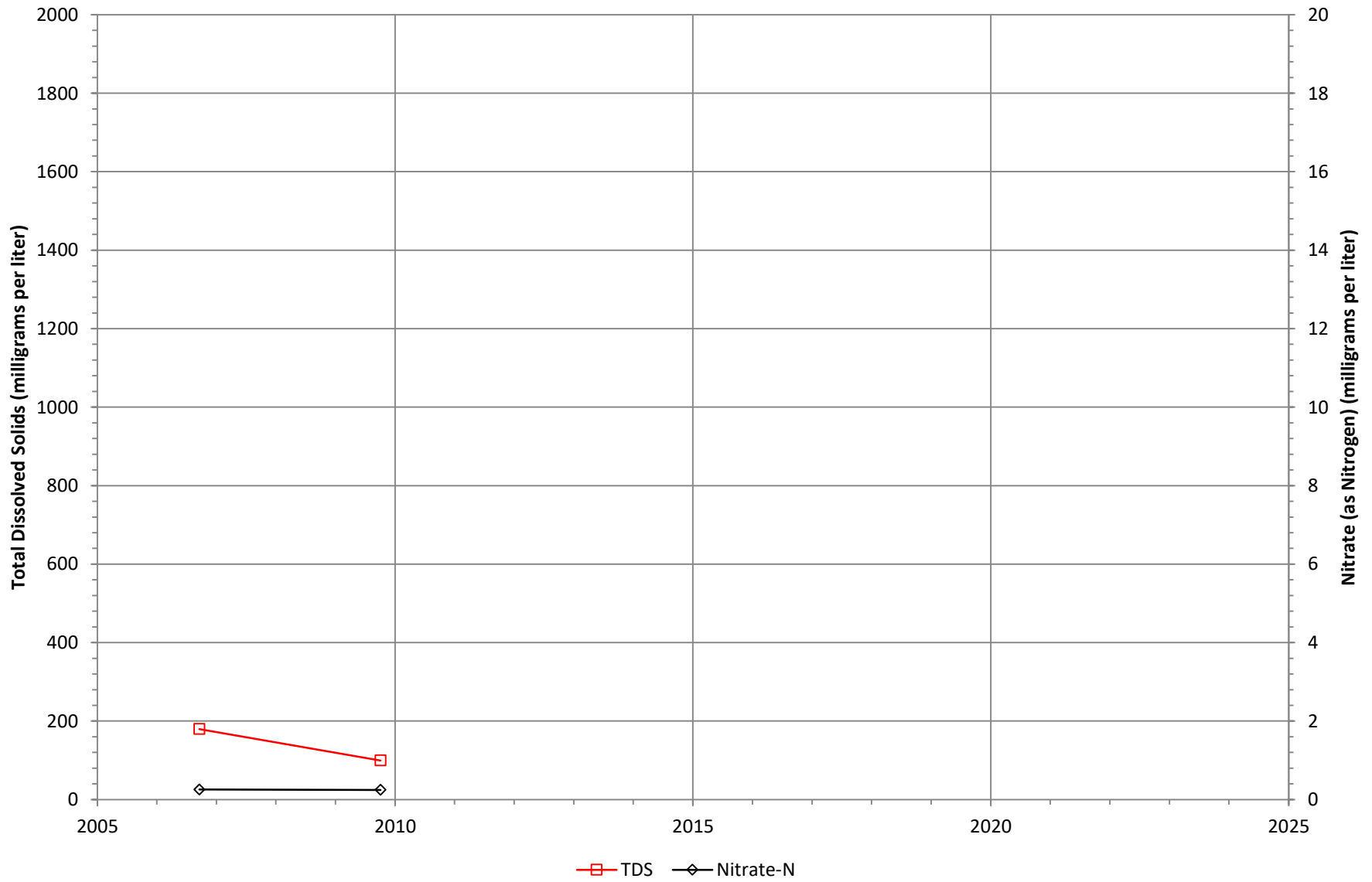
Total Dissolved Solids and Nitrate (as Nitrogen) at Morongo Well D



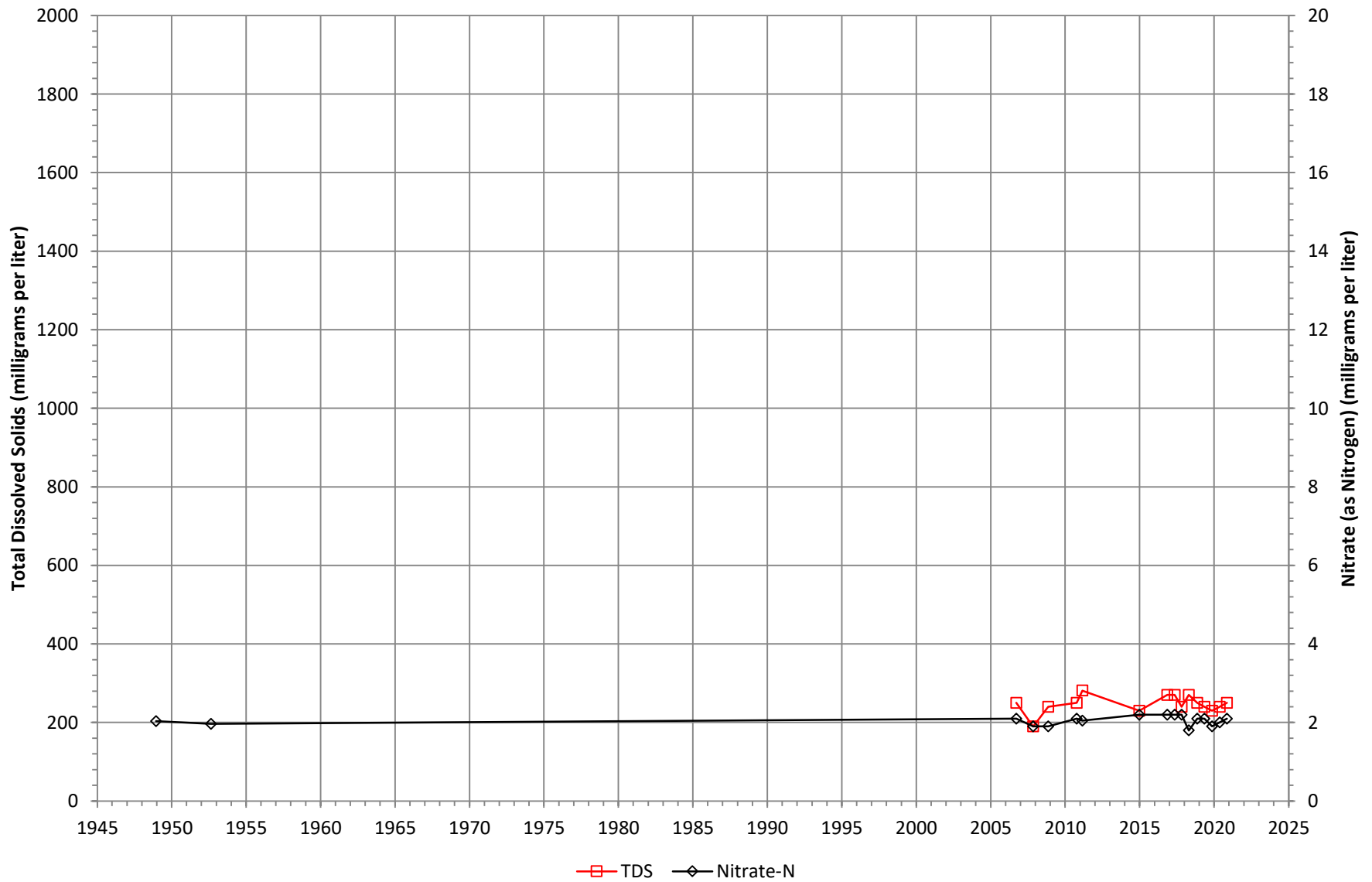
Total Dissolved Solids and Nitrate (as Nitrogen) at Oak Valley Office Well



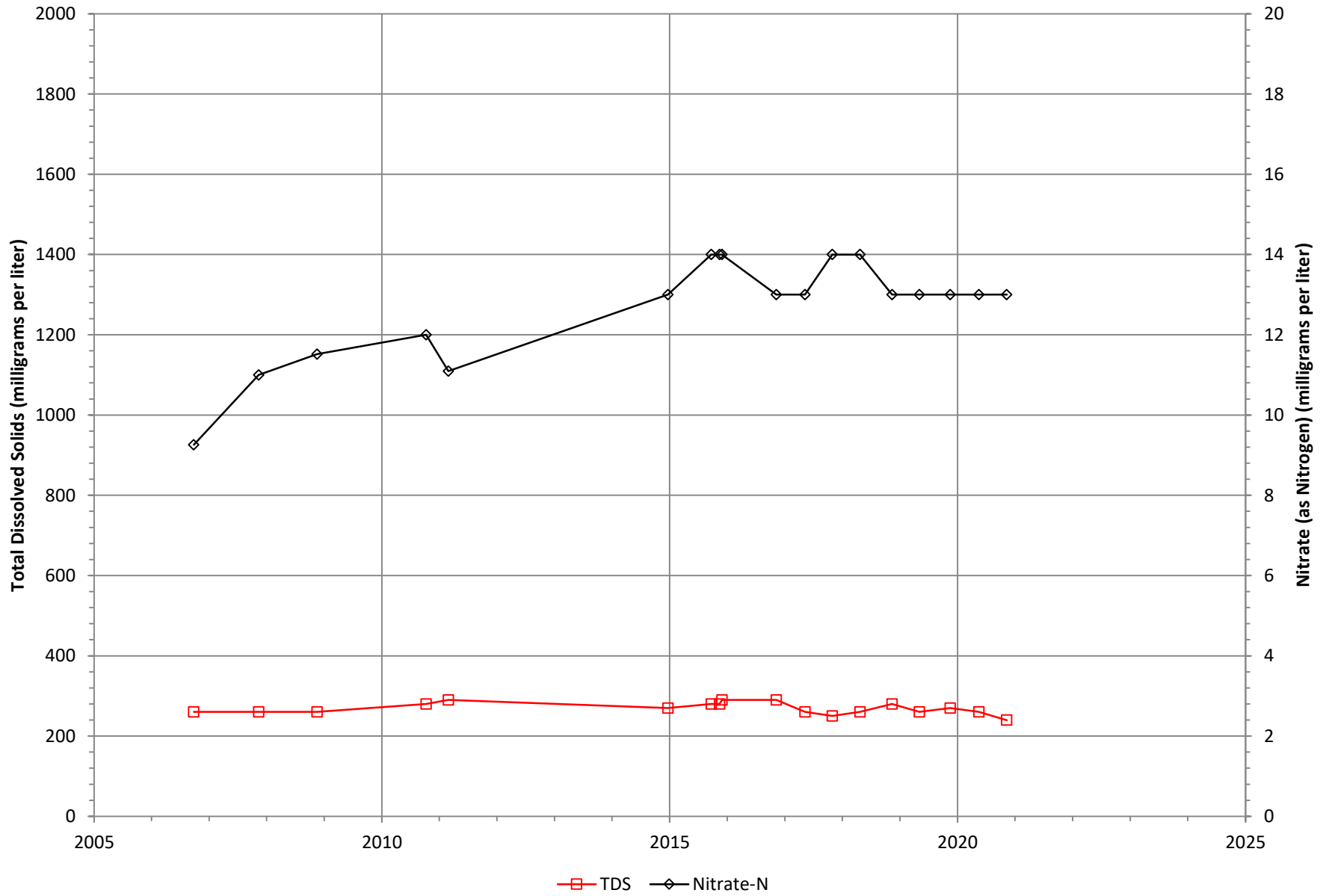
Total Dissolved Solids and Nitrate (as Nitrogen) at Well Singleton Ranch 5



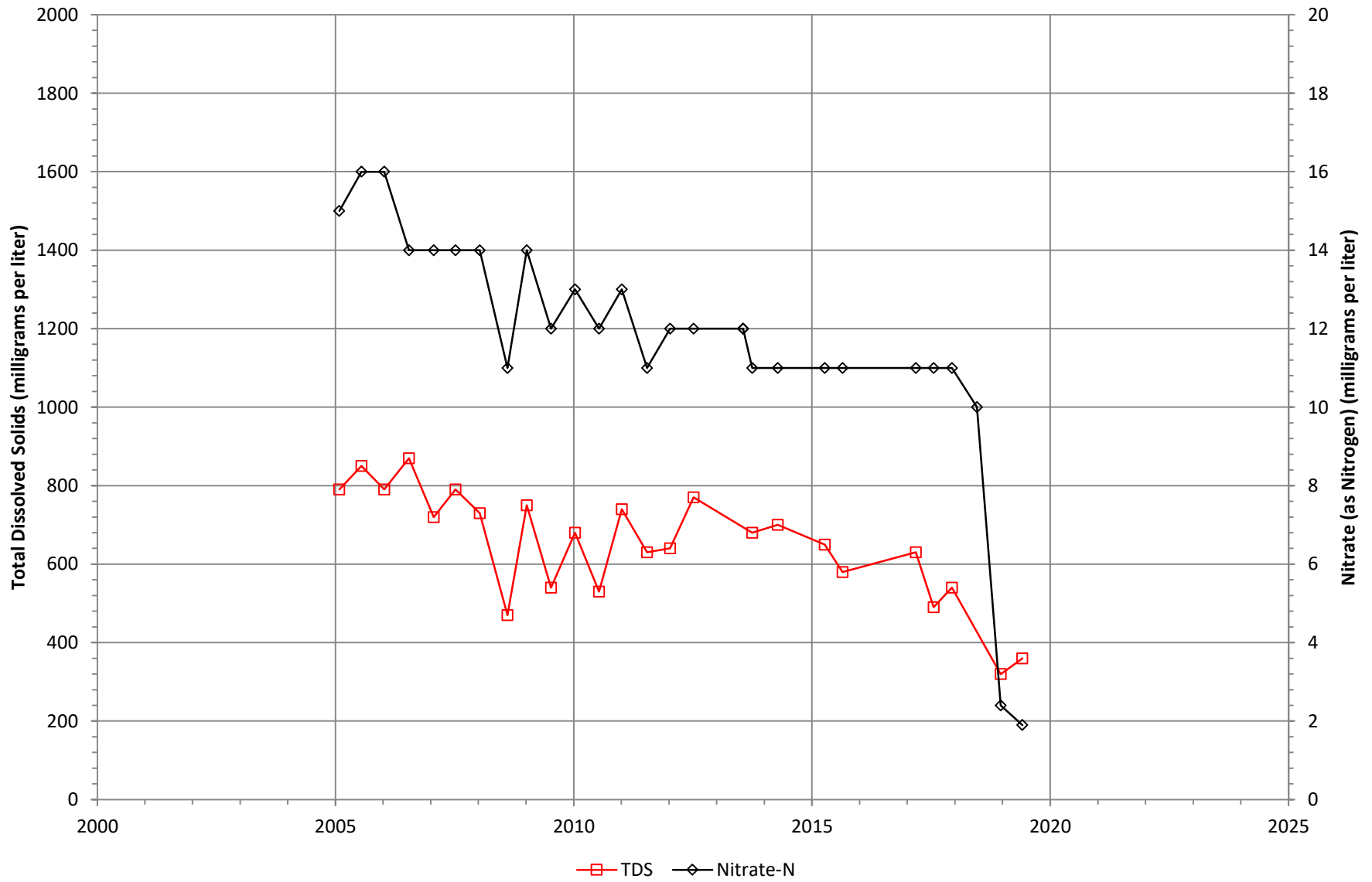
Total Dissolved Solids and Nitrate (as Nitrogen) at Well Singleton Ranch 7



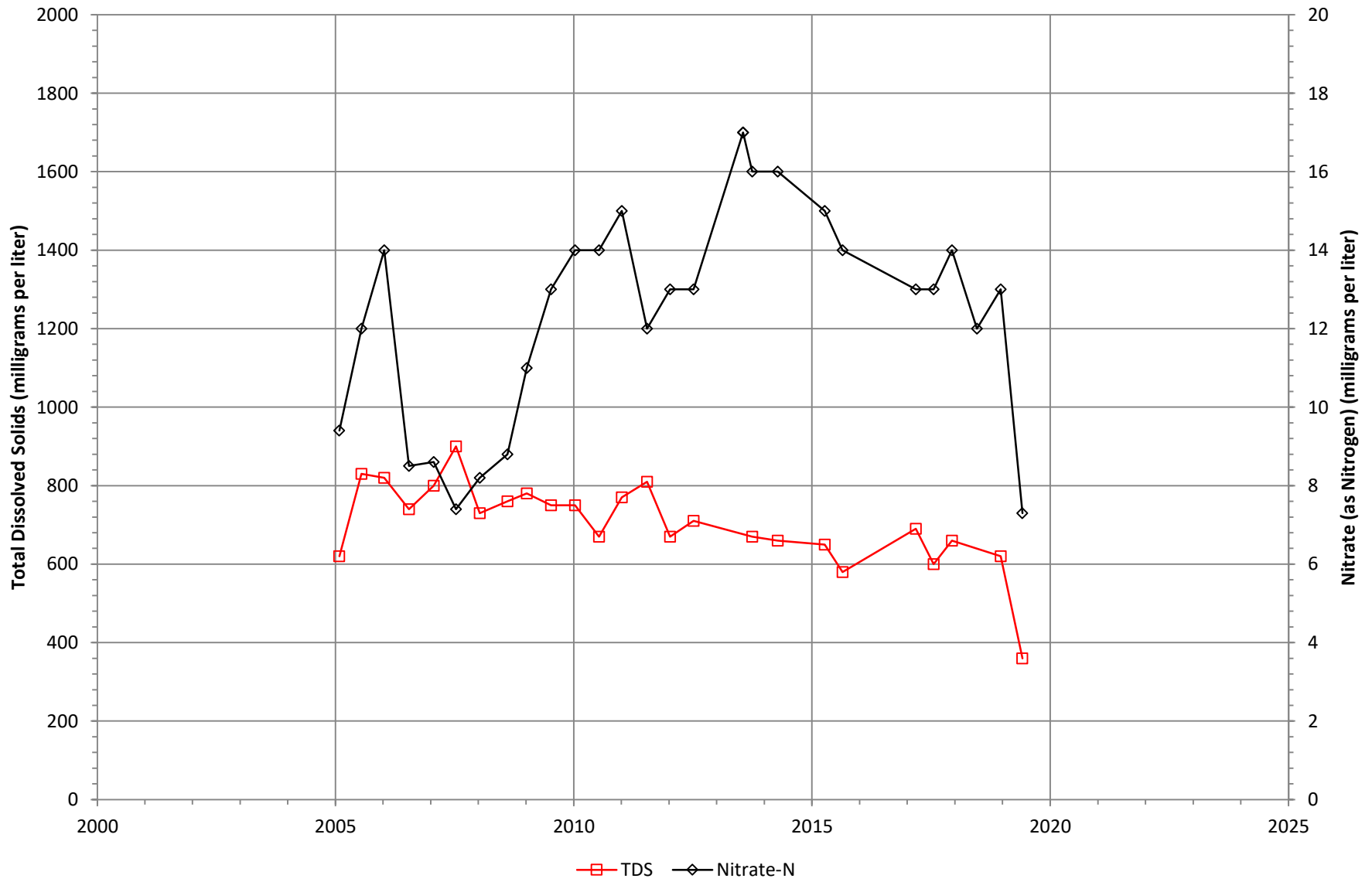
Total Dissolved Solids and Nitrate (as Nitrogen) at Well Pistilli, Joe



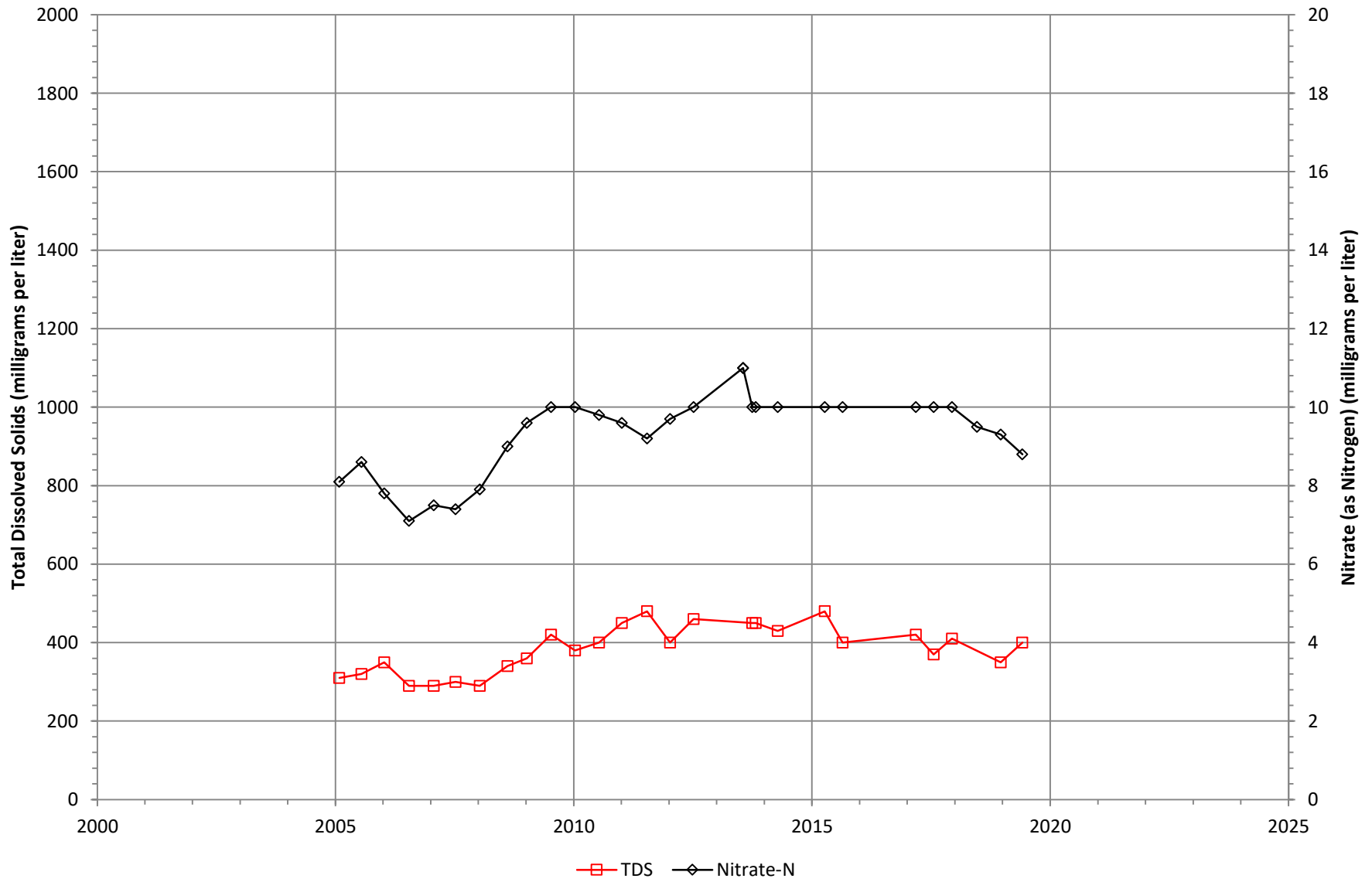
Total Dissolved Solids and Nitrate (as Nitrogen) at Well RCWMD OBMW-1



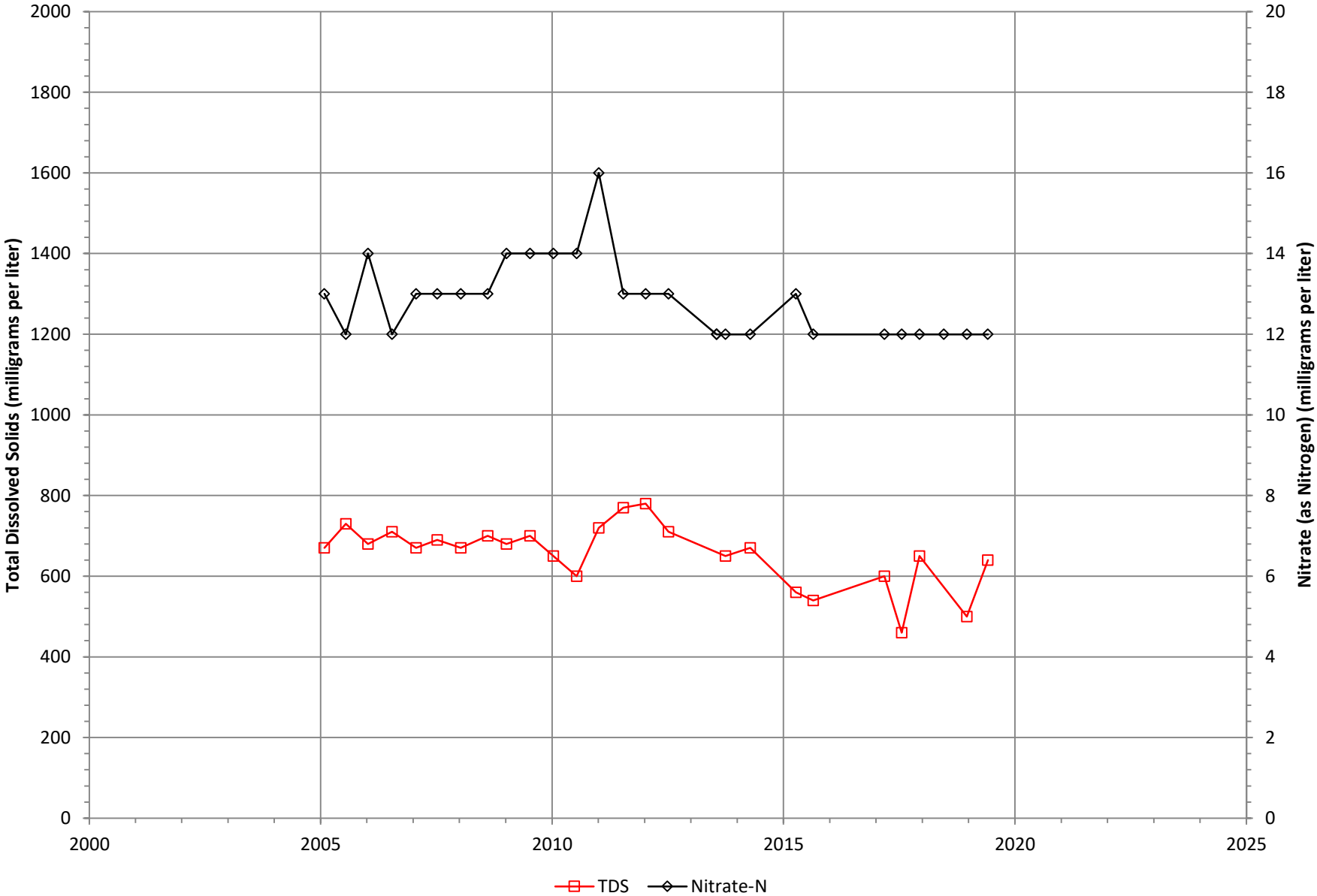
Total Dissolved Solids and Nitrate (as Nitrogen) at Well RCWMD OBMW-2



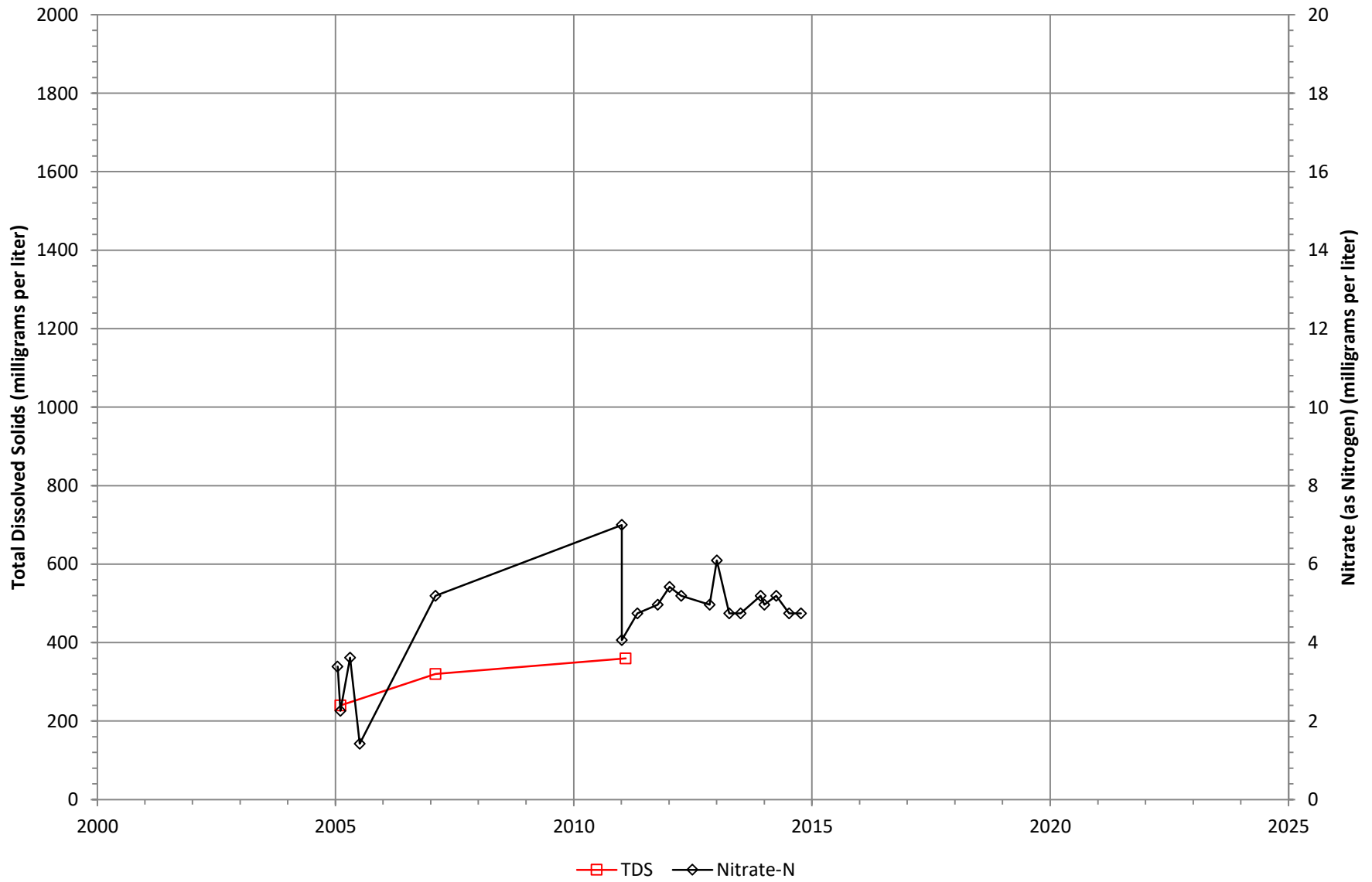
Total Dissolved Solids and Nitrate (as Nitrogen) at Well RCWMD OBMW-3



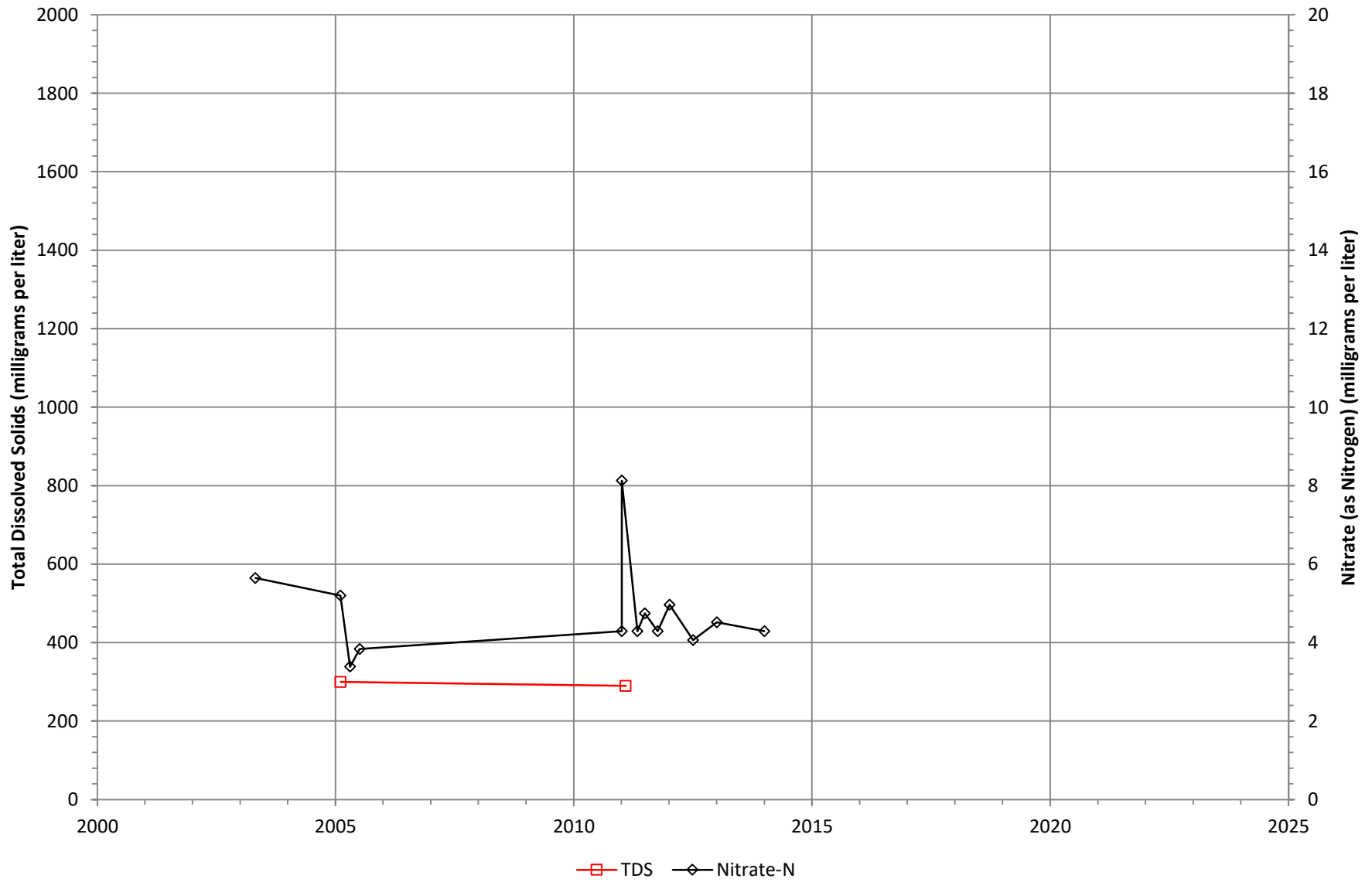
Total Dissolved Solids and Nitrate (as N) at Well RCWMD OBMW-4



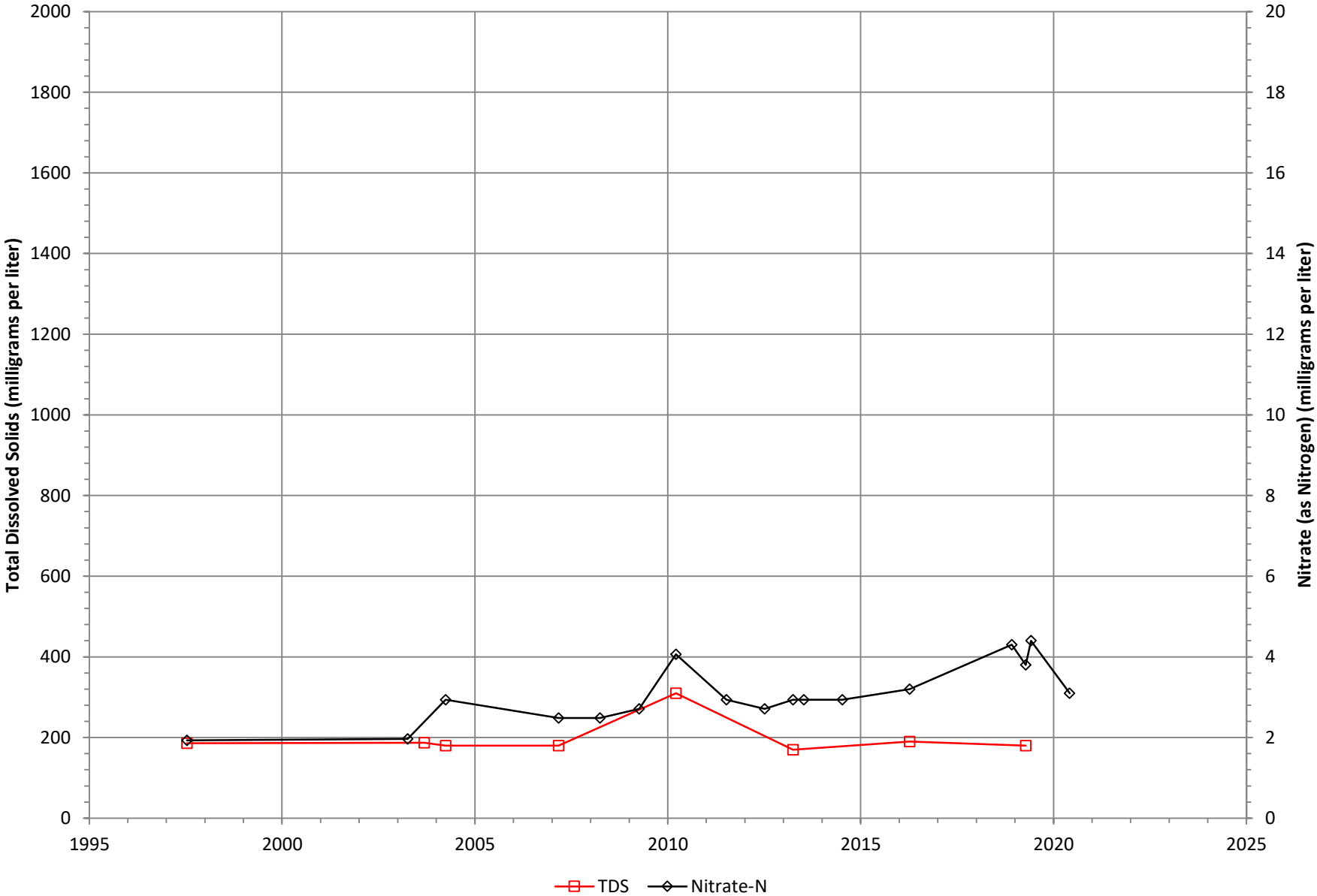
Total Dissolved Solids and Nitrate (as Nitrogen) at Well Shardonale Mesa Owners Association #1



Total Dissolved Solids and Nitrate (as Nitrogen) at Well Shardonale Mesa Owners Association #2



Total Dissolved Solids and Nitrate (as Nitrogen) at Well SMWC-04



Total Dissolved Solids and Nitrate (as Nitrogen) at Well SMWC-05

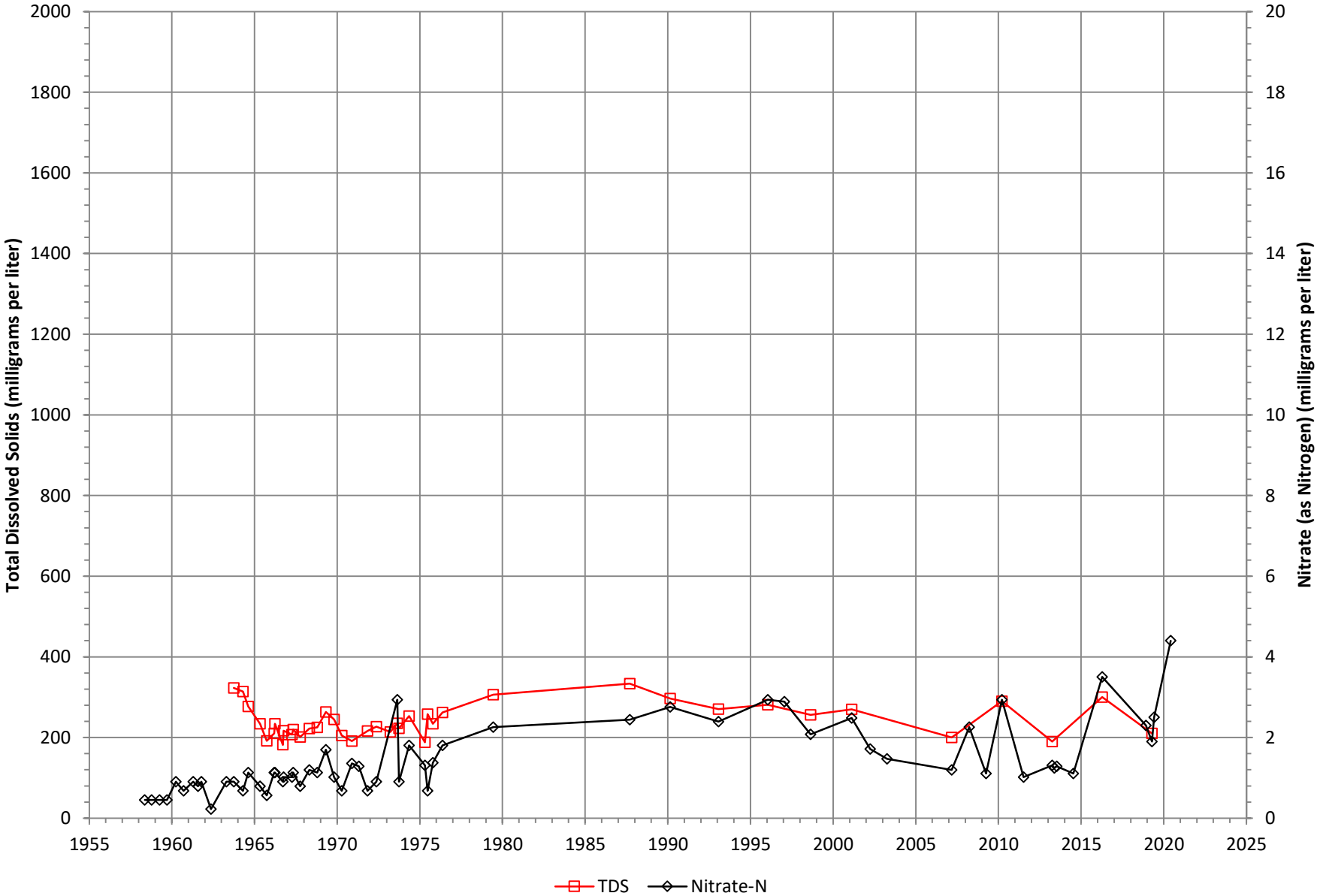
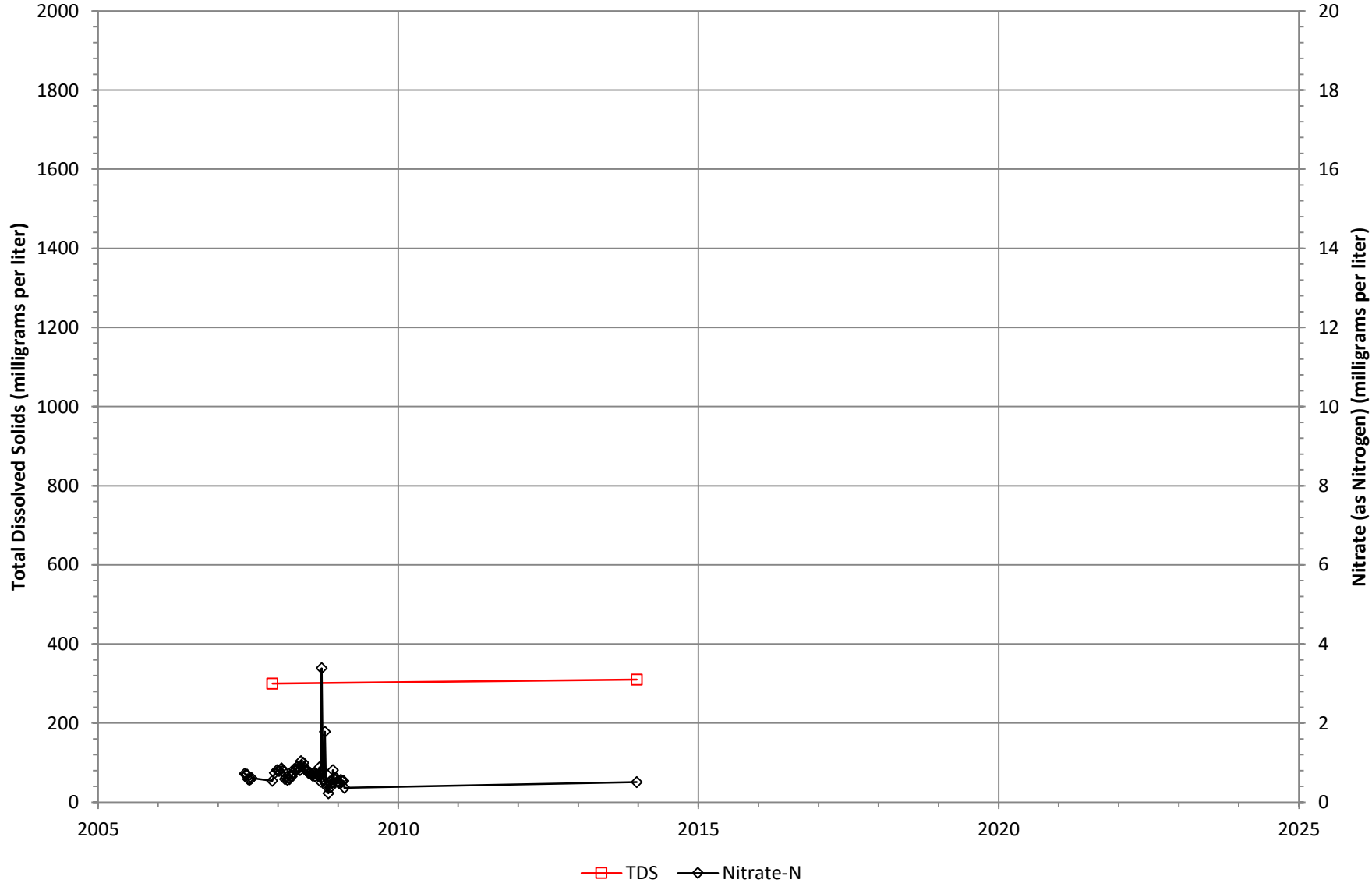
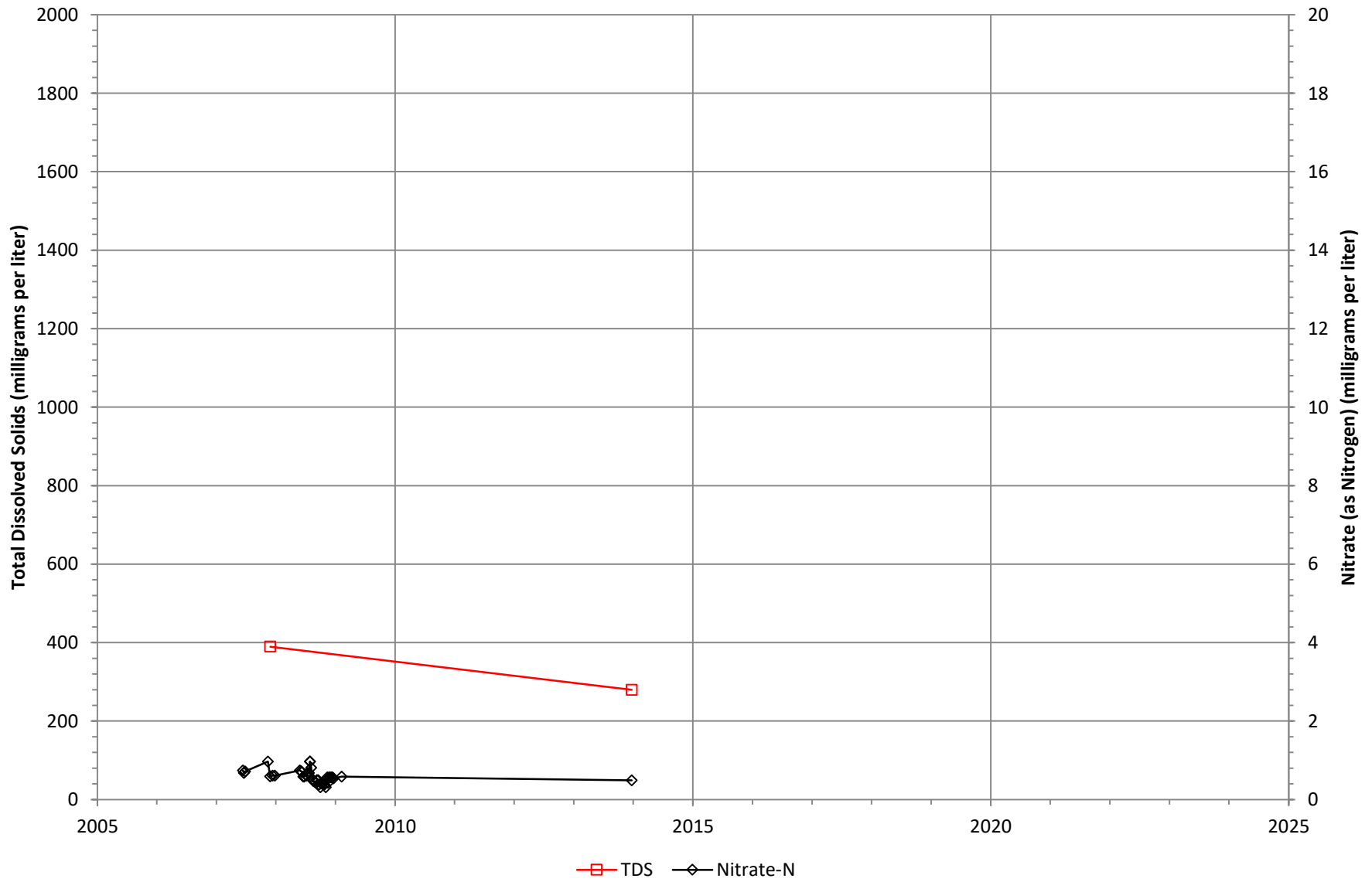


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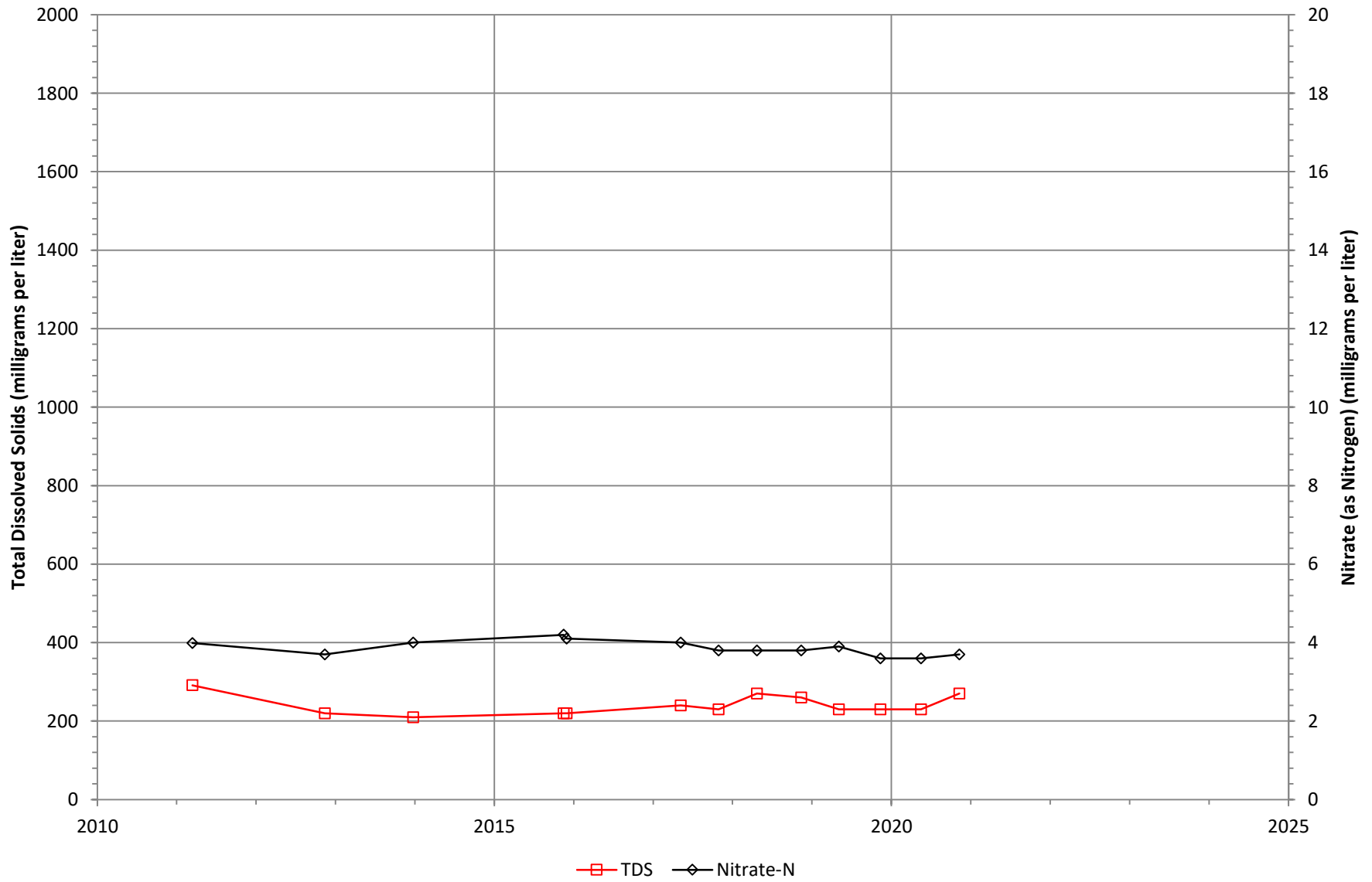
Total Dissolved Solids and Nitrate (as Nitrogen) at Well USGS 335834116582101



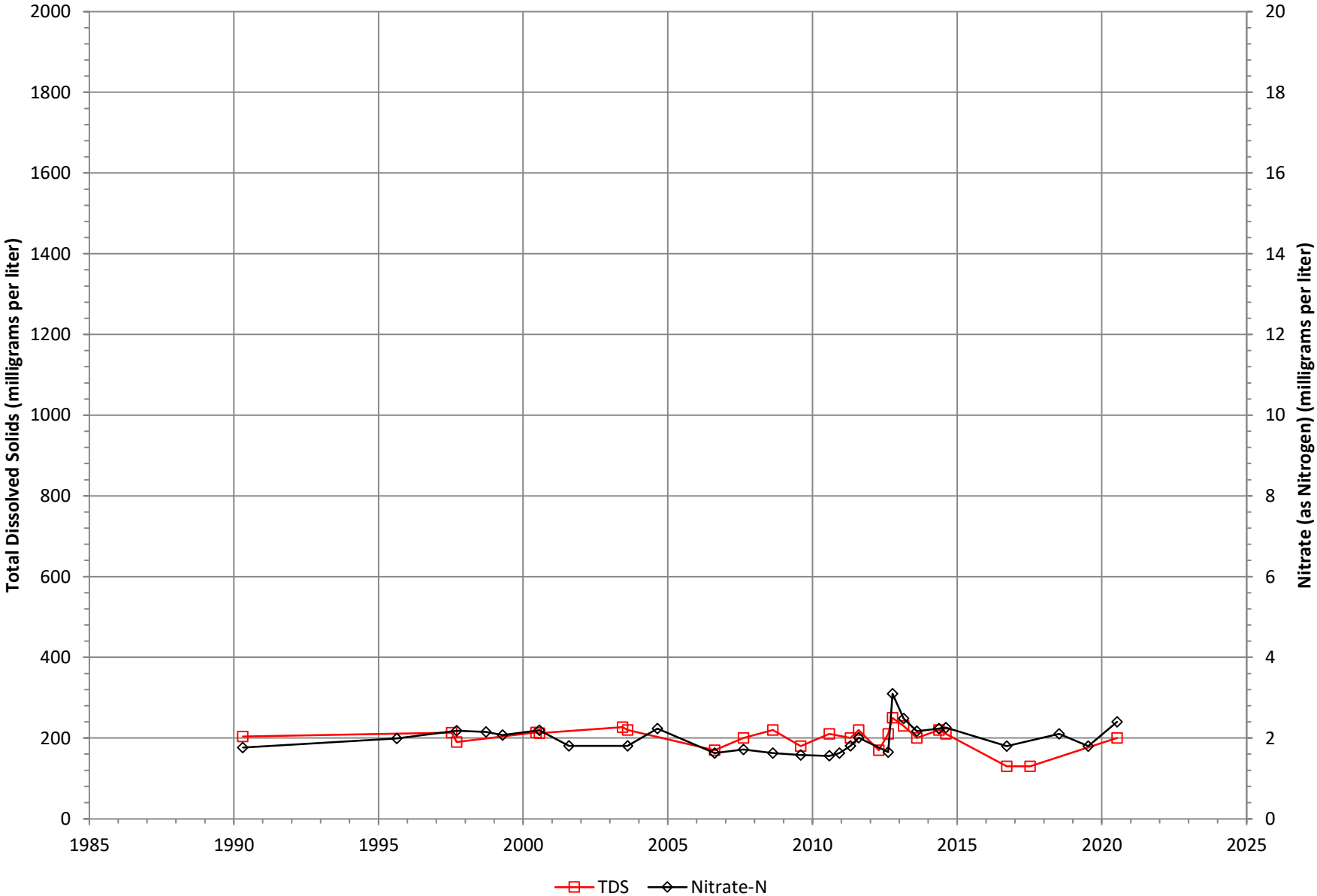
Total Dissolved Solids and Nitrate (as Nitrogen) at Well USGS 335834116582102



Total Dissolved Solids and Nitrate (as Nitrogen) at Well Witter, George G.



Total Dissolved Solids and Nitrate (as Nitrogen) at Well YVWD-48



APPENDIX O

**Field Forms and Analytical Laboratory Reports for
Groundwater Samples Collected in the Beaumont
Groundwater Management Zone in 2020**

WATER-QUALITY MEASUREMENT FIELD FORM

Date: 5-18-2020

Monitoring Entity: SANTIM 2B-1 Sampler Name: DO-CM

Well Information

Well Identifier (Well ID or Well Name): SAN TIM 2B-1

WQ Meter (Make/Model): _____ Serial Number (last 3 digits) _____

WL Sounder (Make/Model): _____ Serial Number (last 3 digits) _____

What time did you arrive at the well? _____ Was the well running at arrival? YES NO

Static Depth to Water: Artesian ft brp @ _____ (time)

Total Depth Measured: _____ ft brp Casing Diameter: _____ Casing Volume: _____

Casing Volume Calculation: _____

Water Quality Field Measurement Details

Were you able to collect a water quality sample? YES NO

Sample Collection Time: 14:00

If no, why? _____

Sample Collection Method: _____

Lab Name: _____ Sample Group: _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Gallons Purged	Pumping Rate (GPM)	Temp (C)	Cond (EC) (uS/cm)	pH (pH units)	DO (mg/L)
13:56				19.5	401	8.25	6.40
13:57				20.2	403	8.31	4.52
13:58				20.3	402	8.32	4.16
13:58				20.5	402	8.29	3.56
13:59				20.5	403	8.26	3.62
14:00				20.5	402	8.26	3.54
14:00				20.5	403	8.26	3.60
14:00	SAMPLES TAKEN						

Total Volume Purged: _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES NO

Was the well pumping when you measured the water level? YES NO

If no, why? Artesian

Pump Depth (ft brp): _____ GS to RP: _____

Comments: _____

WATER-QUALITY MEASUREMENT FIELD FORM

Date: 5-18-2020

Monitoring Entity: 2B-2

Sampler Name: CH-120

Well Information

Well Identifier (Well ID or Well Name): Saw Tim 2B-2

WQ Meter (Make/Model): _____ Serial Number (last 3 digits) _____

WL Sounder (Make/Model): _____ Serial Number (last 3 digits) _____

What time did you arrive at the well? _____ Was the well running at arrival? YES NO

Static Depth to Water: Artesian ft brp @ _____ (time)

Total Depth Measured: _____ ft brp Casing Diameter: _____ Casing Volume: _____

Casing Volume Calculation: _____

Water Quality Field Measurement Details

Were you able to collect a water quality sample? YES NO

Sample Collection Time: 14:08

If no, why? _____

Sample Collection Method: _____

Lab Name: _____ Sample Group: _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Gallons Purged	Pumping Rate (GPM)	Temp (C)	Cond (EC) (uS/cm)	pH (pH units)	DO (mg/L)
14:03				19.3	369	8.64	3.19
14:04				20.0	369	8.72	2.99
14:04				20.4	367	8.74	2.94
14:05				20.3	369	8.79	2.78
14:05				20.2	369	8.84	2.83
14:06				20.2	369	8.88	2.34
14:06				20.2	368	8.90	2.40
14:08	SAMPLE	TAKEN					

Total Volume Purged: _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES NO

Was the well pumping when you measured the water level? YES NO

If no, why? Artesian well

Pump Depth (ft brp): _____ GS to RP: _____

Comments: found a frog

WATER-QUALITY MEASUREMENT FIELD FORM

Date: 5-18-2020

Monitoring Entity: _____

Sampler Name: CH-00

Well Information

Well Identifier (Well ID or Well Name): NO SANTIM-1

WQ Meter (Make/Model): _____ Serial Number (last 3 digits) _____

WL Sounder (Make/Model): _____ Serial Number (last 3 digits) _____

What time did you arrive at the well? _____ Was the well running at arrival? YES NO

Static Depth to Water: _____ ft brp @ _____ (time)

Total Depth Measured: _____ ft brp Casing Diameter: _____ Casing Volume: _____

Casing Volume Calculation: _____

Water Quality Field Measurement Details

Were you able to collect a water quality sample? YES NO

Sample Collection Time: 14:39

If no, why? _____

Sample Collection Method: _____

Lab Name: _____ Sample Group: _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Gallons Purged	Pumping Rate (GPM)	Temp (C)	Cond (EC) (uS/cm)	pH (pH units)	DO (mg/L)
14:23				19.1	544	8.18	3.15
14:24				19.5	542	7.86	3.78
14:24				20.1	544	7.77	3.92
14:26				20.0	539	7.69	4.30
14:27				19.7	588	7.67	3.68
14:29				19.8	684	7.66	3.47
14:31				19.8	690	7.65	3.94
14:32				19.8	705	7.61	3.74

Total Volume Purged: _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES NO

Was the well pumping when you measured the water level? YES NO

If no, why? Artesian well

Pump Depth (ft brp): _____ GS to RP: _____

Comments: 14:29 water turned rust yellow/orange

WATER-QUALITY MEASUREMENT FIELD FORM

Date: 5/18/20

Monitoring Entity: _____

Sampler Name: CH + DO

Well Information

Well Identifier (Well ID or Well Name): El Casco Lake Ranch

WQ Meter (Make/Model): _____ Serial Number (last 3 digits) _____

WL Sounder (Make/Model): _____ Serial Number (last 3 digits) _____

What time did you arrive at the well? 12:50 Was the well running at arrival? YES NO

Static Depth to Water: 36.26 ft brp @ 13:00 (time)

Total Depth Measured: _____ ft brp Casing Diameter: _____ Casing Volume: _____

Casing Volume Calculation: _____

Water Quality Field Measurement Details

Were you able to collect a water quality sample? YES NO

Sample Collection Time: _____

If no, why? _____

Sample Collection Method: _____

Lab Name: _____ Sample Group: _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Gallons Purged	Pumping Rate (GPM)	Temp (C)	Cond (EC) (uS/cm)	pH (pH units)	DO (mg/L)

Total Volume Purged: _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES NO

Was the well pumping when you measured the water level? YES NO

If no, why? _____

Pump Depth (ft brp): _____ GS to RP: _____

Comments: _____

WATER-QUALITY MEASUREMENT FIELD FORM

Date: 5/18/20

Monitoring Entity: _____ Sampler Name: CH

Well Information

Well Identifier (Well ID or Well Name): Hartland

WQ Meter (Make/Model): _____ Serial Number (last 3 digits) _____

WL Sounder (Make/Model): _____ Serial Number (last 3 digits) _____

What time did you arrive at the well? 17:30 Was the well running at arrival? YES NO

Static Depth to Water: 56.78 ft brp @ 17:30 (time)

Total Depth Measured: _____ ft brp Casing Diameter: _____ Casing Volume: _____

Casing Volume Calculation: _____

Water Quality Field Measurement Details

Were you able to collect a water quality sample? YES NO

Sample Collection Time: 1745

If no, why? _____

Sample Collection Method: _____

Lab Name: CLSB Sample Group: _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Gallons Purged	Pumping Rate (GPM)	Temp (C)	Cond (EC) (uS/cm)	pH (pH units)	DO (mg/L)
				19.7	636	8.53	7.47

Total Volume Purged: _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES NO

Was the well pumping when you measured the water level? YES NO

If no, why? _____

Pump Depth (ft brp): _____ GS to RP: _____

Comments: _____

WATER-QUALITY MEASUREMENT FIELD FORM

Date: 5/20/20

Monitoring Entity: _____ Sampler Name: CH

Well Information

Well Identifier (Well ID or Well Name): Oak Valley 2

WQ Meter (Make/Model): _____ Serial Number (last 3 digits) _____

WL Sounder (Make/Model): _____ Serial Number (last 3 digits) _____

What time did you arrive at the well? 6:20 Was the well running at arrival? YES NO

Static Depth to Water: _____ ft brp @ _____ (time)

Total Depth Measured: _____ ft brp Casing Diameter: _____ Casing Volume: _____

Casing Volume Calculation: _____

Water Quality Field Measurement Details

Were you able to collect a water quality sample? YES NO

Sample Collection Time: 6:40

If no, why? _____

Sample Collection Method: _____

Lab Name: CLSR Sample Group: _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Gallons Purged	Pumping Rate (GPM)	Temp (C)	Cond (EC) (uS/cm)	pH (pH units)	DO (mg/L)
6:30			2100	19.0	321	8.50	6.90
6:32			"	19.5	325	8.47	7.08
6:34			"	19.5	328	8.42	7.32
6:36			"	19.6	329	8.38	7.57
6:38			"	19.6	329	8.38	7.38
6:40			"	19.6	329	8.38	7.41

Total Volume Purged: 25,200 gal

Water Level Measurement Details

Were you able to collect a water level measurement? YES NO

Was the well pumping when you measured the water level? YES NO

If no, why? _____

Pump Depth (ft brp): _____ GS to RP: _____

Comments: _____

WATER-QUALITY MEASUREMENT FIELD FORM

Date: 5/20/20

Monitoring Entity: _____

Sampler Name: CH

Well Information

Well Identifier (Well ID or Well Name): Morongo B

WQ Meter (Make/Model): _____ Serial Number (last 3 digits) _____

WL Sounder (Make/Model): _____ Serial Number (last 3 digits) _____

What time did you arrive at the well? 7:40 Was the well running at arrival? YES NO

Static Depth to Water: _____ ft brp @ _____ (time)

Total Depth Measured: _____ ft brp Casing Diameter: _____ Casing Volume: _____

Casing Volume Calculation: _____

Water Quality Field Measurement Details

Were you able to collect a water quality sample? YES NO

Sample Collection Time: 8:00

If no, why? _____

Sample Collection Method: _____

Lab Name: CLSB Sample Group: _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Gallons Purged	Pumping Rate (GPM)	Temp (C)	Cond (EC) (uS/cm)	pH (pH units)	DO (mg/L)
7:48			2400	19.1	332	8.66	7.08
7:50			"	19.0	331	8.28	6.97
7:52			"	19.0	331	8.09	7.33
7:54			"	19.0	332	8.02	7.54
7:56			"	18.9	333	8.10	7.50
7:58			"	18.8	333	8.04	7.62
8:00			"	18.8	333	8.04	6.68

Total Volume Purged: 33,600 gal

Water Level Measurement Details

Were you able to collect a water level measurement? YES NO

Was the well pumping when you measured the water level? YES NO

If no, why? _____

Pump Depth (ft brp): _____ GS to RP: _____

Comments: _____

WATER-QUALITY MEASUREMENT FIELD FORM

Date: 5/20/20

Monitoring Entity: _____ Sampler Name: C11

Well Information

Well Identifier (Well ID or Well Name): MCM Poultry Ranch

WQ Meter (Make/Model): _____ Serial Number (last 3 digits) _____

WL Sounder (Make/Model): _____ Serial Number (last 3 digits) _____

What time did you arrive at the well? 9:10 Was the well running at arrival? YES NO

Static Depth to Water: 9:12 ft brp @ 26.72 (time)

Total Depth Measured: _____ ft brp Casing Diameter: _____ Casing Volume: _____

Casing Volume Calculation: _____

Water Quality Field Measurement Details

Were you able to collect a water quality sample? YES NO

Sample Collection Time: 9:30

If no, why? _____

Sample Collection Method: _____

Lab Name: _____ Sample Group: _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Gallons Purged	Pumping Rate (GPM)	Temp (C)	Cond (EC) (uS/cm)	pH (pH units)	DO (mg/L)
				20.7	1209	7.97	3.33
				20.7	1216	7.87	3.09
				20.7	1215	7.83	3.94
				20.7	1215	7.78	3.49
				20.7	1214	7.76	3.57

Total Volume Purged: _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES NO

Was the well pumping when you measured the water level? YES NO

If no, why? _____

Pump Depth (ft brp): _____ GS to RP: _____

Comments: _____

WATER-QUALITY MEASUREMENT FIELD FORM

Date: 5/20/20

Monitoring Entity: _____ Sampler Name: CH

Well Information

Well Identifier (Well ID or Well Name): Desert Lawn Funeral Home

WQ Meter (Make/Model): _____ Serial Number (last 3 digits) _____

WL Sounder (Make/Model): _____ Serial Number (last 3 digits) _____

What time did you arrive at the well? 10:10 Was the well running at arrival? YES NO

Static Depth to Water: _____ ft brp @ _____ (time)

Total Depth Measured: _____ ft brp Casing Diameter: _____ Casing Volume: _____

Casing Volume Calculation: _____

Water Quality Field Measurement Details

Were you able to collect a water quality sample? YES NO

Sample Collection Time: 10:30

If no, why? _____

Sample Collection Method: _____

Lab Name: CLSR Sample Group: _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Gallons Purged	Pumping Rate (GPM)	Temp (C)	Cond (EC) (uS/cm)	pH (pH units)	DO (mg/L)
				19.0	407	8.45	6.75
				17.7	394	8.35	6.96
				18.1	373	8.30	7.02
				18.3	367	8.24	7.34
				18.4	367	8.19	7.61
				18.4	367	8.15	7.39
				18.4	367	8.17	7.23

Total Volume Purged: _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES NO

Was the well pumping when you measured the water level? YES NO

If no, why? _____

Pump Depth (ft brp): _____ GS to RP: _____

Comments: _____

WATER-QUALITY MEASUREMENT FIELD FORM

Date: 5/20/20

Monitoring Entity: _____

Sampler Name: CH

Well Information

Well Identifier (Well ID or Well Name): Larry Britton

WQ Meter (Make/Model): _____ Serial Number (last 3 digits) _____

WL Sounder (Make/Model): _____ Serial Number (last 3 digits) _____

What time did you arrive at the well? 10:40 Was the well running at arrival? YES NO

Static Depth to Water: _____ ft brp @ _____ (time)

Total Depth Measured: _____ ft brp Casing Diameter: _____ Casing Volume: _____

Casing Volume Calculation: _____

Water Quality Field Measurement Details

Were you able to collect a water quality sample? YES NO

Sample Collection Time: 11:00

If no, why? _____

Sample Collection Method: _____

Lab Name: CLSB Sample Group: _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Gallons Purged	Pumping Rate (GPM)	Temp (C)	Cond (EC) (uS/cm)	pH (pH units)	DO (mg/L)
10:48				18.9	374	8.20	7.34
10:51				18.8	360	8.19	7.77
10:54				18.9	362	8.17	7.89
10:57				18.9	362	8.16	7.87
11:00				18.9	362	8.17	8.05

Total Volume Purged: _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES NO

Was the well pumping when you measured the water level? YES NO

If no, why? _____

Pump Depth (ft brp): _____ GS to RP: _____

Comments: _____

WATER-QUALITY MEASUREMENT FIELD FORM

Date: 5/20/20

Monitoring Entity: _____

Sampler Name: C.H.

Well Information

Well Identifier (Well ID or Well Name): Maranga A

WQ Meter (Make/Model): _____ Serial Number (last 3 digits) _____

WL Sounder (Make/Model): _____ Serial Number (last 3 digits) _____

What time did you arrive at the well? 7:30 Was the well running at arrival? YES NO

Static Depth to Water: _____ ft brp @ _____ (time)

Total Depth Measured: _____ ft brp Casing Diameter: _____ Casing Volume: _____

Casing Volume Calculation: _____

Water Quality Field Measurement Details

Were you able to collect a water quality sample? YES NO

Sample Collection Time: 7:45

If no, why? _____

Sample Collection Method: _____

Lab Name: CLSB Sample Group: _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Gallons Purged	Pumping Rate (GPM)	Temp (C)	Cond (EC) (uS/cm)	pH (pH units)	DO (mg/L)
7:37			1600	25.8	298	9.12	3.56
7:39			"	26.2	297	9.17	5.76
7:41			"	26.1	297	9.21	6.35
7:43			"	26.1	297	9.21	6.71
7:45			"	26.0	293	9.24	8.62

Total Volume Purged: 16000 gal

Water Level Measurement Details

Were you able to collect a water level measurement? YES NO

Was the well pumping when you measured the water level? YES NO

If no, why? _____

Pump Depth (ft brp): _____ GS to RP: _____

Comments: _____

WATER-QUALITY MEASUREMENT FIELD FORM

Date: 5/19/20

Monitoring Entity: _____

Sampler Name: CH

Well Information

Well Identifier (Well ID or Well Name): George Witter

WQ Meter (Make/Model): _____ Serial Number (last 3 digits) _____

WL Sounder (Make/Model): _____ Serial Number (last 3 digits) _____

What time did you arrive at the well? 3:15 pm Was the well running at arrival? YES NO

Static Depth to Water: _____ ft brp @ _____ (time)

Total Depth Measured: _____ ft brp Casing Diameter: _____ Casing Volume: _____

Casing Volume Calculation: _____

Water Quality Field Measurement Details

Were you able to collect a water quality sample? YES NO

Sample Collection Time: 15:30

If no, why? _____

Sample Collection Method: _____

Lab Name: _____ Sample Group: _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Gallons Purged	Pumping Rate (GPM)	Temp (C)	Cond (EC) (uS/cm)	pH (pH units)	DO (mg/L)
				20.9	389	8.36	6.49
				20.3	389	8.35	7.64
				20.2	393	8.34	7.43
				20.3	386	8.32	7.58
				20.4	389	8.30	7.43

Total Volume Purged: _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES NO

Was the well pumping when you measured the water level? YES NO

If no, why? _____

Pump Depth (ft brp): _____ GS to RP: _____

Comments: _____

WATER-QUALITY MEASUREMENT FIELD FORM

Date: 5/18/2020

Monitoring Entity: _____ Sampler Name: DO + CH

Well Information

Well Identifier (Well ID or Well Name): Henry Schwankart

WQ Meter (Make/Model): _____ Serial Number (last 3 digits) _____

WL Sounder (Make/Model): _____ Serial Number (last 3 digits) _____

What time did you arrive at the well? 15:04 Was the well running at arrival? YES NO

Static Depth to Water: 129.76 ft brp @ 15:06 (time)

Total Depth Measured: _____ ft brp Casing Diameter: _____ Casing Volume: _____

Casing Volume Calculation: _____

Water Quality Field Measurement Details

Were you able to collect a water quality sample? YES NO

Sample Collection Time: 15:13

If no, why? _____

Sample Collection Method: _____

Lab Name: _____ Sample Group: _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Gallons Purged	Pumping Rate (GPM)	Temp (C)	Cond (EC) (uS/cm)	pH (pH units)	DO (mg/L)
15:07				22.7	1288	7.83	8.41
15:08				22.4	1298	7.85	6.60
15:09				21.7	1241	7.82	6.58
15:10				22.2	1321	7.81	6.22
15:11				22.1	1320	7.80	6.551
15:12				22.0	1319	7.77	5.8940
15:13	SAMPLE	TAKEN					

Total Volume Purged: _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES NO

Was the well pumping when you measured the water level? YES NO

If no, why? _____

Pump Depth (ft brp): _____ GS to RP: _____

Comments: _____

WATER-QUALITY MEASUREMENT FIELD FORM

Date: 5/19/20

Monitoring Entity: _____ Sampler Name: CH

Well Information

Well Identifier (Well ID or Well Name): Joe Pistilli

WQ Meter (Make/Model): _____ Serial Number (last 3 digits) _____

WL Sounder (Make/Model): _____ Serial Number (last 3 digits) _____

What time did you arrive at the well? 4:30 pm Was the well running at arrival? YES NO

Static Depth to Water: 94.90 ft brp @ 4:30 pm (time)

Total Depth Measured: _____ ft brp Casing Diameter: _____ Casing Volume: _____

Casing Volume Calculation: _____

Water Quality Field Measurement Details

Were you able to collect a water quality sample? YES NO

Sample Collection Time: 17:00

If no, why? _____

Sample Collection Method: _____

Lab Name: _____ Sample Group: _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Gallons Purged	Pumping Rate (GPM)	Temp (C)	Cond (EC) (uS/cm)	pH (pH units)	DO (mg/L)
				19.3	401	8.22	6.64
				19.4	403	8.22	6.10
				19.8	400	8.15	5.95

Total Volume Purged: _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES NO

Was the well pumping when you measured the water level? YES NO

If no, why? _____

Pump Depth (ft brp): _____ GS to RP: _____

Comments: _____

WATER-QUALITY MEASUREMENT FIELD FORM

Date: 5/19/20

Monitoring Entity: _____ Sampler Name: CH

Well Information

Well Identifier (Well ID or Well Name): Singleton Ranch 7 (SRT7)

WQ Meter (Make/Model): _____ Serial Number (last 3 digits) _____

WL Sounder (Make/Model): _____ Serial Number (last 3 digits) _____

What time did you arrive at the well? 1 pm Was the well running at arrival? YES NO

Static Depth to Water: 141.55 ft brp @ _____ (time)

Total Depth Measured: _____ ft brp Casing Diameter: _____ Casing Volume: _____

Casing Volume Calculation: _____

Water Quality Field Measurement Details

Were you able to collect a water quality sample? YES NO

Sample Collection Time: 13:15

If no, why? _____

Sample Collection Method: _____

Lab Name: _____ Sample Group: _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Gallons Purged	Pumping Rate (GPM)	Temp (C)	Cond (EC) (uS/cm)	pH (pH units)	DO (mg/L)
				19.4	380	8.25	5.98
				19.3	380	8.19	6.10
				19.2	379	8.12	6.10
				19.2	379	8.09	6.08
				19.2	380	8.10	6.24

Total Volume Purged: _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES NO

Was the well pumping when you measured the water level? YES NO

If no, why? _____

Pump Depth (ft brp): _____ GS to RP: _____

Comments: _____

WATER-QUALITY MEASUREMENT FIELD FORM

Date: 5/19/20

Monitoring Entity: _____

Sampler Name: CH

Well Information

Well Identifier (Well ID or Well Name): Oak Valley Office (OVO)

WQ Meter (Make/Model): _____ Serial Number (last 3 digits) _____

WL Sounder (Make/Model): _____ Serial Number (last 3 digits) _____

What time did you arrive at the well? 12:30 pm Was the well running at arrival? YES NO

Static Depth to Water: 168.72 ft brp @ 12:30 pm (time)

Total Depth Measured: _____ ft brp Casing Diameter: _____ Casing Volume: _____

Casing Volume Calculation: _____

Water Quality Field Measurement Details

Were you able to collect a water quality sample? YES NO

Sample Collection Time: 12:50 pm

If no, why? _____

Sample Collection Method: _____

Lab Name: _____ Sample Group: _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Gallons Purged	Pumping Rate (GPM)	Temp (C)	Cond (EC) (uS/cm)	pH (pH units)	DO (mg/L)
	<u>168.72</u>			<u>19.7</u>	<u>311</u>	<u>8.38</u>	<u>6.87</u>
				<u>19.7</u>	<u>309</u>	<u>8.33</u>	<u>6.54</u>
				<u>19.9</u>	<u>309</u>	<u>8.28</u>	<u>7.31</u>
				<u>19.8</u>	<u>311</u>	<u>8.29</u>	<u>7.50</u>

Total Volume Purged: _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES NO

Was the well pumping when you measured the water level? YES NO

If no, why? _____

Pump Depth (ft brp): _____ GS to RP: _____

Comments: _____

WATER-QUALITY MEASUREMENT FIELD FORM

Date: 5/19/20

Monitoring Entity: _____ Sampler Name: CH

Well Information

Well Identifier (Well ID or Well Name): Dawling Orchard

WQ Meter (Make/Model): _____ Serial Number (last 3 digits) _____

WL Sounder (Make/Model): _____ Serial Number (last 3 digits) _____

What time did you arrive at the well? 4pm Was the well running at arrival? YES NO

Static Depth to Water: 145.4 ft brp @ _____ (time)

Total Depth Measured: _____ ft brp Casing Diameter: _____ Casing Volume: _____

Casing Volume Calculation: _____

Water Quality Field Measurement Details

Were you able to collect a water quality sample? YES NO

Sample Collection Time: 4.08pm

If no, why? _____

Sample Collection Method: _____

Lab Name: _____ Sample Group: _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Gallons Purged	Pumping Rate (GPM)	Temp (C)	Cond (EC) (uS/cm)	pH (pH units)	DO (mg/L)
			60	20.9	571	8.17	3.09
				20.9	639	8.11	4.35
				20.8	544	8.15	4.03
				20.7	542	8.16	4.34
				20.8	541	8.15	3.31

Total Volume Purged: _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES NO

Was the well pumping when you measured the water level? YES NO

If no, why? _____

Pump Depth (ft brp): _____ GS to RP: _____

Comments: _____

WATER-QUALITY MEASUREMENT FIELD FORM

Date: 5/19/20

Monitoring Entity: _____

Sampler Name: CH

Well Information

Well Identifier (Well ID or Well Name): FRANCIS DOWLING

WQ Meter (Make/Model): _____ Serial Number (last 3 digits) _____

WL Sounder (Make/Model): _____ Serial Number (last 3 digits) _____

What time did you arrive at the well? 3:37pm Was the well running at arrival? YES NO

Static Depth to Water: 120.68 ft brp @ 3:37pm (time)

Total Depth Measured: _____ ft brp Casing Diameter: _____ Casing Volume: _____

Casing Volume Calculation: _____

Water Quality Field Measurement Details

Were you able to collect a water quality sample? YES NO

Sample Collection Time: _____

If no, why? _____

Sample Collection Method: _____

Lab Name: _____ Sample Group: _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Gallons Purged	Pumping Rate (GPM)	Temp (C)	Cond (EC) (uS/cm)	pH (pH units)	DO (mg/L)

Total Volume Purged: _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES NO

Was the well pumping when you measured the water level? YES NO

If no, why? _____

Pump Depth (ft brp): _____ GS to RP: _____

Comments: _____

WATER-QUALITY MEASUREMENT FIELD FORM

Date: 5/19/20

Monitoring Entity: _____ Sampler Name: CH

Well Information

Well Identifier (Well ID or Well Name): Ruth Cunningham

WQ Meter (Make/Model): _____ Serial Number (last 3 digits) _____

WL Sounder (Make/Model): _____ Serial Number (last 3 digits) _____

What time did you arrive at the well? 2:20pm Was the well running at arrival? YES NO

Static Depth to Water: 37.67 ft brp @ _____ (time)

Total Depth Measured: _____ ft brp Casing Diameter: _____ Casing Volume: _____

Casing Volume Calculation: _____

Water Quality Field Measurement Details

Were you able to collect a water quality sample? YES NO

Sample Collection Time: _____

If no, why? _____

Sample Collection Method: _____

Lab Name: _____ Sample Group: _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Gallons Purged	Pumping Rate (GPM)	Temp (C)	Cond (EC) (uS/cm)	pH (pH units)	DO (mg/L)

Total Volume Purged: _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES NO

Was the well pumping when you measured the water level? YES NO

If no, why? _____

Pump Depth (ft brp): _____ GS to RP: _____

Comments: _____

WATER-QUALITY MEASUREMENT FIELD FORM

Date: 5/19/20

Monitoring Entity: _____

Sampler Name: CH

Well Information

Well Identifier (Well ID or Well Name): Wilman Garner

WQ Meter (Make/Model): _____ Serial Number (last 3 digits) _____

WL Sounder (Make/Model): _____ Serial Number (last 3 digits) _____

What time did you arrive at the well? 1:46 pm Was the well running at arrival? YES NO

Static Depth to Water: 127.45 ft brp @ _____ (time)

Total Depth Measured: _____ ft brp Casing Diameter: _____ Casing Volume: _____

Casing Volume Calculation: _____

Water Quality Field Measurement Details

Were you able to collect a water quality sample? YES NO

Sample Collection Time: _____

If no, why? _____

Sample Collection Method: _____

Lab Name: _____ Sample Group: _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Gallons Purged	Pumping Rate (GPM)	Temp (C)	Cond (EC) (μ S/cm)	pH (pH units)	DO (mg/L)

Total Volume Purged: _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES NO

Was the well pumping when you measured the water level? YES NO

If no, why? _____

Pump Depth (ft brp): _____ GS to RP: _____

Comments: _____

WATER-QUALITY MEASUREMENT FIELD FORM

Date: 5/19/20

Monitoring Entity: _____

Sampler Name: CH

Well Information

Well Identifier (Well ID or Well Name): Cherry Valley Nursery (CVN)

WQ Meter (Make/Model): _____ Serial Number (last 3 digits) _____

WL Sounder (Make/Model): _____ Serial Number (last 3 digits) _____

What time did you arrive at the well? 11:30 Was the well running at arrival? YES NO

Static Depth to Water: _____ ft brp @ _____ (time)

Total Depth Measured: _____ ft brp Casing Diameter: _____ Casing Volume: _____

Casing Volume Calculation: _____

Water Quality Field Measurement Details

Were you able to collect a water quality sample? YES NO

Sample Collection Time: 11:50

If no, why? _____

Sample Collection Method: grab

Lab Name: CLSB Sample Group: _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Gallons Purged	Pumping Rate (GPM)	Temp (C)	Cond (EC) (uS/cm)	pH (pH units)	DO (mg/L)
11:40				18.3	416	8.00	5.73
11:45				18.4	413	7.98	6.81
11:50				18.5	414	7.95	7.15

Total Volume Purged: _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES NO

Was the well pumping when you measured the water level? YES NO

If no, why? water depth > 300ft sounder max

Pump Depth (ft brp): _____ GS to RP: _____

Comments: _____

WATER-QUALITY MEASUREMENT FIELD FORM

Date: 5/19/20

Monitoring Entity: _____ Sampler Name: CH

Well Information

Well Identifier (Well ID or Well Name): Singleton Ranch 5

WQ Meter (Make/Model): _____ Serial Number (last 3 digits) _____

WL Sounder (Make/Model): _____ Serial Number (last 3 digits) _____

What time did you arrive at the well? 13:20 Was the well running at arrival? YES NO

Static Depth to Water: 98.78 ft brp @ _____ (time)

Total Depth Measured: _____ ft brp Casing Diameter: _____ Casing Volume: _____

Casing Volume Calculation: _____

Water Quality Field Measurement Details

Were you able to collect a water quality sample? YES NO

Sample Collection Time: _____

If no, why? _____

Sample Collection Method: _____

Lab Name: _____ Sample Group: _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Gallons Purged	Pumping Rate (GPM)	Temp (C)	Cond (EC) (uS/cm)	pH (pH units)	DO (mg/L)

Total Volume Purged: _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES NO

Was the well pumping when you measured the water level? YES NO

If no, why? _____

Pump Depth (ft brp): _____ GS to RP: _____

Comments: _____

WATER-QUALITY MEASUREMENT FIELD FORM

Date: 5/19/20

Monitoring Entity: _____

Sampler Name: CH

Well Information

Well Identifier (Well ID or Well Name): Maureen Pollock

WQ Meter (Make/Model): _____ Serial Number (last 3 digits) _____

WL Sounder (Make/Model): _____ Serial Number (last 3 digits) _____

What time did you arrive at the well? 3 pm Was the well running at arrival? YES NO

Static Depth to Water: _____ ft brp @ _____ (time)

Total Depth Measured: dry ft brp Casing Diameter: _____ Casing Volume: _____

Casing Volume Calculation: _____

Water Quality Field Measurement Details

Were you able to collect a water quality sample? YES NO

Sample Collection Time: _____

If no, why? _____

Sample Collection Method: _____

Lab Name: _____ Sample Group: _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Gallons Purged	Pumping Rate (GPM)	Temp (C)	Cond (EC) (uS/cm)	pH (pH units)	DO (mg/L)

Total Volume Purged: _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES NO

Was the well pumping when you measured the water level? YES NO

If no, why? _____

Pump Depth (ft brp): _____ GS to RP: _____

Comments: total depth 190.5, well dry!

WATER-QUALITY MEASUREMENT FIELD FORM

Date: 5/19/20

Monitoring Entity: _____ Sampler Name: CH

Well Information

Well Identifier (Well ID or Well Name): CVMWC-1

WQ Meter (Make/Model): _____ Serial Number (last 3 digits) _____

WL Sounder (Make/Model): _____ Serial Number (last 3 digits) _____

What time did you arrive at the well? 11:00 Was the well running at arrival? YES NO

Static Depth to Water: 70.61 ft brp @ 11:10 am (time)

Total Depth Measured: _____ ft brp Casing Diameter: _____ Casing Volume: _____

Casing Volume Calculation: _____

Water Quality Field Measurement Details

Were you able to collect a water quality sample? YES NO

Sample Collection Time: 11:25

If no, why? _____

Sample Collection Method: grab

Lab Name: CLSB Sample Group: _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Gallons Purged	Pumping Rate (GPM)	Temp (C)	Cond (EC) (uS/cm)	pH (pH units)	DO (mg/L)
<u>11:10</u>				<u>19.4</u>	<u>7.95</u>	<u>574</u>	<u>6.95</u>
				<u>18.9</u>	<u>563</u>	<u>8.00</u>	<u>9.03</u>
				<u>19.5</u>	<u>560</u>	<u>7.87</u>	<u>7.59</u>
				<u>19.5</u>	<u>570</u>	<u>7.85</u>	<u>7.65</u>

Total Volume Purged: _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES NO

Was the well pumping when you measured the water level? YES NO

If no, why? _____

Pump Depth (ft brp): _____ GS to RP: _____

Comments: Pumping when arrived. Waited 25 min for recovery

WATER-QUALITY MEASUREMENT FIELD FORM

Date: 5/19/20

Monitoring Entity: _____

Sampler Name: CH

Well Information

Well Identifier (Well ID or Well Name): Beaumont Cemetery (2)

WQ Meter (Make/Model): _____ Serial Number (last 3 digits) _____

WL Sounder (Make/Model): _____ Serial Number (last 3 digits) _____

What time did you arrive at the well? 2:40 pm Was the well running at arrival? YES NO

Static Depth to Water (no) _____ ft brp @ _____ (time)

Total Depth Measured: _____ ft brp Casing Diameter: _____ Casing Volume: _____

Casing Volume Calculation: _____

Water Quality Field Measurement Details

Were you able to collect a water quality sample? YES NO

Sample Collection Time: 15:00

If no, why? _____

Sample Collection Method: _____

Lab Name: _____ Sample Group: _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Gallons Purged	Pumping Rate (GPM)	Temp (C)	Cond (EC) (uS/cm)	pH (pH units)	DO (mg/L)
				22.3	557	8.14	5.92
				22.9	556	8.19	5.75
				22.7	557	8.04	5.64

Total Volume Purged: _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES NO

Was the well pumping when you measured the water level? YES NO

If no, why? Sounding part to approx. 50 ft.

Pump Depth (ft brp): _____ GS to RP: _____

Comments: _____

WATER-QUALITY MEASUREMENT FIELD FORM

Date: 5/19/20

Monitoring Entity: _____ Sampler Name: CH

Well Information

Well Identifier (Well ID or Well Name): UNKNOWN 1208640(1208640)

WQ Meter (Make/Model): _____ Serial Number (last 3 digits) _____

WL Sounder (Make/Model): _____ Serial Number (last 3 digits) _____

What time did you arrive at the well? 2:00 pm Was the well running at arrival? YES NO

Static Depth to Water: 76.38 ft brp @ _____ (time)

Total Depth Measured: _____ ft brp Casing Diameter: _____ Casing Volume: _____

Casing Volume Calculation: _____

Water Quality Field Measurement Details

Were you able to collect a water quality sample? YES NO

Sample Collection Time: _____

If no, why? _____

Sample Collection Method: _____

Lab Name: _____ Sample Group: _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Table with 8 columns: Time (24 hour), Depth to Water (feet), Gallons Purged, Pumping Rate (GPM), Temp (C), Cond (EC) (uS/cm), pH (pH units), DO (mg/L). The table contains 10 empty rows for data entry.

Total Volume Purged: _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES NO

Was the well pumping when you measured the water level? YES NO

If no, why? _____

Pump Depth (ft brp): _____ GS to RP: _____

Comments: _____

WATER-QUALITY MEASUREMENT FIELD FORM

Date: 5/18/20

Monitoring Entity: _____

Sampler Name: CH

Well Information

Well Identifier (Well ID or Well Name): East Valley G.C.

WQ Meter (Make/Model): _____ Serial Number (last 3 digits) _____

WL Sounder (Make/Model): _____ Serial Number (last 3 digits) _____

What time did you arrive at the well? 16:55 Was the well running at arrival? YES NO

Static Depth to Water: 27.38 ft brp @ 17:00 (time)

Total Depth Measured: _____ ft brp Casing Diameter: _____ Casing Volume: _____

Casing Volume Calculation: _____

Water Quality Field Measurement Details

Were you able to collect a water quality sample? YES NO

Sample Collection Time: _____

If no, why? _____

Sample Collection Method: _____

Lab Name: _____ Sample Group: _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Gallons Purged	Pumping Rate (GPM)	Temp (C)	Cond (EC) (uS/cm)	pH (pH units)	DO (mg/L)

Total Volume Purged: _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES NO

Was the well pumping when you measured the water level? YES NO

If no, why? _____

Pump Depth (ft brp): _____ GS to RP: _____

Comments: _____

Maximum Benefits Well Sampling
Water Quality Survey

Date: 11/12/20 Sampler Initials: CH

Well Information
WE ID: Basement Courtyard 2 Well Address: _____

Were well photos collected? YES NO Was a well sketch drawn? YES NO

WQ Meter _____ Serial # _____ (last 3 digits) Sample Group: _____

What time did you arrive at the well? 10:30 Was the well running at arrival? YES NO

Water Quality Field Measurement Details
Were you able to collect a water quality sample? YES NO

Sample Collection Time: 10:50

If no, why? _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Activity	Temp ()	Cond (EC) ()	pH (pH units)	DO ()	TDS ()
10:35	62.73						
10:38		100 gpm	18.9	487	7.69	6.10	
10:41			19.1	485	7.68	5.54	
10:44			19.1	488	7.66	5.73	
10:47			19.1	485	7.68	6.19	
10:50			19.1	487	7.68	6.29	

Did you install a spigot? _____

Water Level Measurement Details
Were you able to collect a water level measurement? YES NO

If no, why? _____

Reference Point Name: _____ GS to RP: _____

Comments: _____

Maximum Benefits Well Sampling
Water Quality Survey

Date: 11/12/20

Sampler Initials: CH

Well Information

WE ID: Larry Bottom

Well Address: _____

Were well photos collected? YES NO

Was a well sketch drawn? YES NO

WQ Meter _____ Serial # _____ Sample Group: _____
(last 3 digits)

What time did you arrive at the well? 9:40 Was the well running at arrival? YES NO

Water Quality Field Measurement Details

Were you able to collect a water quality sample? YES NO

Sample Collection Time: 10:00

If no, why? _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Activity	Temp ()	Cond (EC) ()	pH (pH units)	DO ()	TDS ()
9:45			18.3	430	7.95	7.02	
9:48			18.5	431	7.87	7.10	
9:51			18.5	431	7.93	7.54	
9:54			18.5	430	7.87	6.27	
9:57			18.5	431	7.88	6.14	

Did you install a spigot? _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES NO

If no, why? _____

Reference Point Name: _____ GS to RP: _____

Comments: _____

Maximum Benefits Well Sampling
Water Quality Survey

Date: 11/11/20

Sampler Initials: CH

Well Information

WE ID:

Cherry Valley Mutual

Well Address: _____

Were well photos collected? YES NO

Was a well sketch drawn? YES NO

WQ Meter _____ Serial # _____ Sample Group: _____
(last 3 digits)

What time did you arrive at the well? 16:10 Was the well running at arrival? YES NO

Water Quality Field Measurement Details

Were you able to collect a water quality sample? YES NO

Sample Collection Time: 16:30

If no, why? _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Activity	Temp ()	Cond (EC) ()	pH (pH units)	DO ()	TDS ()
16:15	70.04		19.2	445	7.48	12.55	
16:18			18.2	415	7.42	8.13	
16:21			19.2	496	7.47	8.61	
16:24			19.2	494	7.46	8.78	
16:27			19.2	493	7.46	8.38	

Did you install a spigot? _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES NO

If no, why? _____

Reference Point Name: _____ GS to RP: _____

Comments: _____

Maximum Benefits Well Sampling
Water Quality Survey

Date: 11/11/20

Sampler Initials: _____

Well Information

WE ID:

Cherry Valley Nursery

Well Address: _____

Were well photos collected? YES NO

Was a well sketch drawn? YES NO

WQ Meter _____ Serial # _____ Sample Group. _____
(last 3 digits)

What time did you arrive at the well? 18:30 Was the well running at arrival? YES NO

Water Quality Field Measurement Details

Were you able to collect a water quality sample? YES NO

Sample Collection Time: 16:00

If no, why? _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Activity	Temp ()	Cond (EC) ()	pH (pH units)	DO ()	TDS ()
	530		18.3	374	7.72	8.48	
			18.3	377	7.67	7.35	
			18.3	378	7.66	7.67	
			18.3	376	7.66	6.02	

Did you install a spigot? _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES NO

If no, why? _____

Reference Point Name: _____ GS to RP: _____

Comments: _____

Maximum Benefits Well Sampling
Water Quality Survey

Date: 11/10/20

Sampler Initials: _____

Well Information

WE ID:

Ruth Cunningham

Well Address: _____

Were well photos collected? YES NO

Was a well sketch drawn? YES NO

WQ Meter _____ Serial # _____ (last 3 digits) Sample Group: _____

What time did you arrive at the well? 16:50 Was the well running at arrival? YES NO

Water Quality Field Measurement Details

Were you able to collect a water quality sample? YES NO

Sample Collection Time: _____

If no, why? _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Activity	Temp ()	Cond (EC) ()	pH (pH units)	DO ()	TDS ()

Did you install a spigot? _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES NO 37.67

If no, why? _____

Reference Point Name: _____ GS to RP: _____

Comments: _____

Maximum Benefits Well Sampling
Water Quality Survey

Date: 11/10/20

Sampler Initials: CH

Well Information

WE ID: Francis Dowling

Well Address: _____

Were well photos collected? YES NO

Was a well sketch drawn? YES NO

WQ Meter _____ Serial # _____ Sample Group. _____
(last 3 digits)

What time did you arrive at the well? 10:30 Was the well running at arrival? YES NO

Water Quality Field Measurement Details

Were you able to collect a water quality sample? YES NO

Sample Collection Time: _____

If no, why? _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Activity	Temp ()	Cond (EC) ()	pH (pH units)	DO ()	TDS ()

Did you install a spigot? _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES NO 120.46

If no, why? _____

Reference Point Name: _____ GS to RP: _____

Comments: _____

Maximum Benefits Well Sampling
Water Quality Survey

Date: 11/12/20

Sampler Initials: CH

Well Information

WE ID: Desert Lawn

Well Address: _____

Were well photos collected? YES NO

Was a well sketch drawn? YES NO

WQ Meter _____ Serial # _____ (last 3 digits) Sample Group. _____

What time did you arrive at the well? 9:10 Was the well running at arrival? YES (NO)

Water Quality Field Measurement Details

Were you able to collect a water quality sample? (YES) NO

Sample Collection Time: 9:30

If no, why? _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Activity	Temp ()	Cond (EC) ()	pH (pH units)	DO ()	TDS ()
9:13			18.3	465	7.81	7.75	
9:16			18.4	431	7.81	7.78	
9:19			18.3	422	7.83	7.75	
9:22			18.4	428	7.82	7.97	
9:25			18.4	430	7.81	7.91	

Did you install a spigot? _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES NO

If no, why? _____

Reference Point Name: _____ GS to RP: _____

Comments: _____

Maximum Benefits Well Sampling
Water Quality Survey

Date: 11/11/20

Sampler Initials: CH

Well Information

WE ID: Douglas Orchard

Well Address: _____

Were well photos collected? YES NO

Was a well sketch drawn? YES NO

WQ Meter _____ Serial # _____ Sample Group: _____
(last 3 digits)

What time did you arrive at the well? 11:05 Was the well running at arrival? YES NO

Water Quality Field Measurement Details

Were you able to collect a water quality sample? YES NO

Sample Collection Time: 11:30

If no, why? _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Activity	Temp ()	Cond (EC) ()	pH (pH units)	DO ()	TDS ()
11:15	135.21		20.5	296	8.08	4.81	
11:18			20.7	466	8.03	4.50	
11:21			20.6	477	8.01	4.81	
11:24			20.6	478	8.03	4.38	

Did you install a spigot? _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES NO

If no, why? _____

Reference Point Name: _____ GS to RP: _____

Comments: _____

Maximum Benefits Well Sampling
Water Quality Survey

Date: 11/10/20

Sampler Initials: CH

Well Information
WE ID: Wilmer Garner

Well Address: _____

Were well photos collected? YES NO Was a well sketch drawn? YES NO

WQ Meter _____ Serial # _____ Sample Group: _____
(last 3 digits)

What time did you arrive at the well? _____ Was the well running at arrival? YES NO

Water Quality Field Measurement Details

Were you able to collect a water quality sample? YES NO

Sample Collection Time: _____

If no, why? _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Activity	Temp ()	Cond (EC) ()	pH (pH units)	DO ()	TDS ()

Did you install a spigot? _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES NO 132.68

If no, why? _____

Reference Point Name: _____ GS to RP: _____

Comments: _____

Maximum Benefits Well Sampling
Water Quality Survey

Date: 11/11/20

Sampler Initials: CH

Well Information

WE ID: MCM Poultry Ranch Well Address: _____

Were well photos collected? YES NO Was a well sketch drawn? YES NO

WQ Meter _____ Serial # _____ (last 3 digits) Sample Group: _____

What time did you arrive at the well? 9:10 Was the well running at arrival? YES NO

Water Quality Field Measurement Details

Were you able to collect a water quality sample? YES NO

Sample Collection Time: 9:30

If no, why? _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Activity	Temp ()	Cond (EC) ()	pH (pH units)	DO ()	TDS ()
9:15	28.78						
9:20			17.5	506	7.47	4.10	
9:23			19.1	523	7.24	3.14	
9:26			19.1	1157	7.31	3.67	
9:29			19.3	1054	7.32	2.56	

Did you install a spigot? _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES NO

If no, why? _____

Reference Point Name: _____ GS to RP: _____

Comments: _____

Maximum Benefits Well Sampling
Water Quality Survey

Date: 11/12/20

Sampler Initials: CW

Well Information
WE ID: Murray A

Well Address: _____

Were well photos collected? YES NO

Was a well sketch drawn? YES NO

WQ Meter _____ Serial # _____ Sample Group: _____
(last 3 digits)

What time did you arrive at the well? 8:00 Was the well running at arrival? YES NO

Water Quality Field Measurement Details
Were you able to collect a water quality sample? YES NO

Sample Collection Time: 8:30

If no, why? _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Activity	Temp ()	Cond (EC) ()	pH (pH units)	DO ()	TDS ()
8:10		1700 gpm	25.3	270	9.34	3.38	
8:15			25.5	362 358	8.99	5.92	
8:20			25.6	356	8.99	6.24	
8:25			25.6	355	8.97	6.51	

Did you install a spigot? _____

Water Level Measurement Details
Were you able to collect a water level measurement? YES NO

If no, why? _____

Reference Point Name: _____ GS to RP: _____

Comments: _____

Maximum Benefits Well Sampling
Water Quality Survey

Date: 11/12/20

Sampler Initials: CH

Well Information
WE ID: Morongo D

Well Address: _____

Were well photos collected? YES NO

Was a well sketch drawn? YES NO

WQ Meter _____ Serial # _____ Sample Group. _____
(last 3 digits)

What time did you arrive at the well? 8:35 Was the well running at arrival? YES NO

Water Quality Field Measurement Details

Were you able to collect a water quality sample? YES NO

Sample Collection Time: 9:00

If no, why? _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Activity	Temp ()	Cond (EC) ()	pH (pH units)	DO ()	TDS ()
8:40		2,400 gpm	20.9	356	8.51	5.22	
8:45			21.9	357	8.46	5.68	
8:50			21.9	357	8.33	6.54	
8:55			21.8	364	8.22	6.01	
9:00			21.	362	8.25	5.94	

Did you install a spigot? _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES NO

If no, why? _____

Reference Point Name: _____ GS to RP: _____

Comments: _____

Maximum Benefits Well Sampling
Water Quality Survey

Date: 11/11/20

Sampler Initials: CH

Well Information
WE ID: Jack Valley Office

Well Address: _____

Were well photos collected? YES NO

Was a well sketch drawn? YES NO

WQ Meter _____ Serial # _____ Sample Group. _____
(last 3 digits)

What time did you arrive at the well? 15:05 Was the well running at arrival? YES NO

Water Quality Field Measurement Details
Were you able to collect a water quality sample? YES NO

Sample Collection Time: 15:30

If no, why? _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Activity	Temp ()	Cond (EC) ()	pH (pH units)	DO ()	TDS ()
15:10	180.86		19.3	231	7.78	5.25	
15:13			19.7	225	7.77	7.26	
15:16			19.8	282	7.79	7.06	
15:19			19.8	282	8.01	7.96	
15:22			19.8	281	8.02	7.44	

Did you install a spigot? _____

Water Level Measurement Details
Were you able to collect a water level measurement? YES NO

If no, why? _____

Reference Point Name: _____ GS to RP: _____

Comments: _____

Maximum Benefits Well Sampling
Water Quality Survey

Date: 4/11/20

Sampler Initials: GH

Well Information

WE ID: Singleton Reach 5

Well Address: _____

Were well photos collected? YES NO

Was a well sketch drawn? YES NO

WQ Meter _____ Serial # _____ (last 3 digits) Sample Group: _____

What time did you arrive at the well? 14:05 Was the well running at arrival? YES NO

Water Quality Field Measurement Details

Were you able to collect a water quality sample? YES NO

Sample Collection Time: _____

If no, why? _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Activity	Temp ()	Cond (EC) ()	pH (pH units)	DO ()	TDS ()
14:15	103.55						

Did you install a spigot? _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES NO

If no, why? _____

Reference Point Name: _____ GS to RP: _____

Comments: fracture in well

Maximum Benefits Well Sampling
Water Quality Survey

Date: 4/11/20

Sampler Initials: CH

Well Information
WE ID:

Singleton Ranch 7

Well Address: _____

Were well photos collected? YES NO

Was a well sketch drawn? YES NO

WQ Meter _____ Serial # _____ (last 3 digits) Sample Group: _____

What time did you arrive at the well? 14:30 Was the well running at arrival? YES NO

Water Quality Field Measurement Details

Were you able to collect a water quality sample? YES NO

Sample Collection Time: 14:50

If no, why? _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Activity	Temp ()	Cond (EC) ()	pH (pH units)	DO ()	TDS ()
14:40	150.35		17.7	345	7.65	7.87	
14:43			18.4	354	7.62	6.81	
14:46			19.4	339	7.64	6.57	
14:49			19.4	347	7.67	6.99	

Did you install a spigot? _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES NO

If no, why? _____

Reference Point Name: _____ GS to RP: _____

Comments: franchise pulled well last semester

Maximum Benefits Well Sampling
Water Quality Survey

Date: 11/11/20

Sampler Initials: _____

Well Information

WE ID: Joe Pistilli

Well Address: _____

Were well photos collected? YES NO Was a well sketch drawn? YES NO

WQ Meter _____ Serial # _____ Sample Group: _____
(last 3 digits)

What time did you arrive at the well? 11:45 Was the well running at arrival? YES **NO**

Water Quality Field Measurement Details

Were you able to collect a water quality sample? **YES** NO

Sample Collection Time: 1210

If no, why? _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Activity	Temp ()	Cond (EC) ()	pH (pH units)	DO ()	TDS ()
	<u>95.17</u>						
<u>11:55</u>			<u>18.9</u>	<u>360</u>	<u>7.98</u>	<u>7.78</u>	
<u>11:58</u>			<u>18.8</u>	<u>360</u>	<u>7.82</u>	<u>6.41</u>	
<u>12:01</u>			<u>19.2</u>	<u>360</u>	<u>7.87</u>	<u>6.50</u>	
<u>12:04</u>			<u>19.1</u>	<u>360</u>	<u>7.88</u>	<u>6.43</u>	
<u>12:07</u>			<u>19.1</u>	<u>360</u>	<u>7.88</u>	<u>6.40</u>	

Did you install a spigot? _____

Water Level Measurement Details

Were you able to collect a water level measurement? **YES** NO

If no, why? _____

Reference Point Name: _____ GS to RP: _____

Comments: well across street ~105 ft

Maximum Benefits Well Sampling
Water Quality Survey

Date: 11/11/20

Sampler Initials: CH

Well Information

WE ID: Mauroa Pillack Jarado Well Address: _____

Were well photos collected? YES NO Was a well sketch drawn? YES NO

WQ Meter _____ Serial # _____ Sample Group: _____
(last 3 digits)

What time did you arrive at the well? _____ Was the well running at arrival? YES NO

Water Quality Field Measurement Details

Were you able to collect a water quality sample? YES NO

Sample Collection Time: _____

If no, why? _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Activity	Temp ()	Cond (EC) ()	pH (pH units)	DO ()	TDS ()
	184.90						

Did you install a spigot? _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES NO

If no, why? _____

Reference Point Name: TD ~190 GS to RP: _____

Comments: _____

Maximum Benefits Well Sampling
Water Quality Survey

Date: 11/11/20

Sampler Initials: CH

Well Information

WE ID: Unknown 1208640 Well Address: _____

Were well photos collected? YES NO Was a well sketch drawn? YES NO

WQ Meter _____ Serial # _____ Sample Group: _____
(last 3 digits)

What time did you arrive at the well? 16:50 Was the well running at arrival? YES NO

Water Quality Field Measurement Details

Were you able to collect a water quality sample? YES NO

Sample Collection Time: _____

If no, why? _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Activity	Temp ()	Cond (EC) ()	pH (pH units)	DO ()	TDS ()
1700	74.36						

Did you install a spigot? _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES NO

If no, why? _____

Reference Point Name: _____ GS to RP: _____

Comments: _____

Maximum Benefits Well Sampling
Water Quality Survey

Date: 11/11/20

Sampler Initials: CH

Well Information

WE ID: George Witter

Well Address: _____

Were well photos collected? YES NO

Was a well sketch drawn? YES NO

WQ Meter _____ Serial # _____ Sample Group: _____
(last 3 digits)

What time did you arrive at the well? 1315 Was the well running at arrival? YES NO

Water Quality Field Measurement Details

Were you able to collect a water quality sample? YES NO

Sample Collection Time: 1330

If no, why? _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Activity	Temp ()	Cond (EC) ()	pH (pH units)	DO ()	TDS ()
1318			17.0	350	8.14	8.54	
1321			17.3	358	7.93	8.17	
1324			17.3	348	7.99	7.98	
1327			17.3	348	8.05	8.01	
1330			17.3	348	8.05	8.11	

Did you install a spigot? _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES NO

If no, why? no port

Reference Point Name: _____ GS to RP: _____

Comments: _____

DUDEK

FIELD CALIBRATION RECORD

Project Name: City of Beaumont Date of Field Calibration: 11/9/20
 Project Number: 11110.2019 Field Location: Beaumont area. CA
 Field Crew: C. Hunter Weather Conditions: Sunny, 40's
V. Rosenblatt Parameter Sensor: _____
 Signature: [Signature] Instr. Type: YSI
 Model: 556 Temp (using thermometer): _____ Temp (using meter): _____

Parameters / Field Measurements			General Description of Standards				
	pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (uS/cm)	Percent Error	calibration solution. supplier. exp. Date
Standard Solution Values	1	4.0	717.8		1215		
	2	7.0					
	3	10.0					
Pre-calibration Readings for Each Standard	1	7.0 4.13 ^{ctd}	719.1		1006		
	2	7.00					
	3	10.09					
Post-calibration Readings for Each Standard	1		719.7		1213		
	2	6.96					
	3	10.12					

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20E1498
Received: 05/20/20 08:50
Reported: 06/01/20

San Tim - 1

20E1498-01 (Water)

Sample Date: 05/18/20 14:39

Sampler: C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	250	mg/L	5.0		05/28/20	05/28/20	2021071	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	05/26/20	05/26/20	2022015	
Bicarbonate (HCO3)	SM 2320 B	300	mg/L	5.0		05/28/20	05/28/20	2021071	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021071	
Chloride (Cl)	EPA 300.0	56	mg/L	1.0	0.075	05/20/20	05/20/20	2021068	
Specific Conductance (E.C.)	SM 2510B	690	umhos/cm	2.0	0.20	05/20/20	05/20/20	2021071	
Fluoride (F)	EPA 300.0	0.58	mg/L	0.10	0.026	05/20/20	05/20/20	2021068	
Hardness, Total (as CaCO3)	Calculated	250	mg/L	6.6		05/28/20	05/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021071	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		05/26/20	05/26/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	0.74	mg/L	0.40	0.12	05/20/20	05/20/20	2021068	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	05/20/20	05/20/20	2021068	
pH (Lab)	SM 4500HB	7.9	pH Units			05/20/20	05/20/20	2021071	
Sulfate (SO4)	EPA 300.0	32	mg/L	0.50	0.14	05/20/20	05/20/20	2021068	
Total Filterable Residue/TDS	SM 2540C	390	mg/L	5.0	3.1	05/21/20	05/22/20	2021110	

Metals

Calcium (Ca)	EPA 200.7	70	mg/L	1.0	0.080	05/28/20	05/28/20	2022095	
Magnesium (Mg)	EPA 200.7	19	mg/L	1.0	0.51	05/28/20	05/28/20	2022095	
Potassium (K)	EPA 200.7	1.6	mg/L	1.0	0.18	05/28/20	05/28/20	2022095	
Silica (SiO2)	EPA 200.7	20	mg/L	0.50	0.018	05/26/20	05/26/20	2022026	
Sodium (Na)	EPA 200.7	54	mg/L	1.0	0.21	05/28/20	05/28/20	2022095	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20E1498
Received: 05/20/20 08:50
Reported: 06/01/20

San Tim 2B-1

20E1498-02 (Water)

Sample Date: 05/18/20 14:00

Sampler: C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	130	mg/L	5.0		05/28/20	05/28/20	2021071	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	05/26/20	05/26/20	2022015	
Bicarbonate (HCO3)	SM 2320 B	150	mg/L	5.0		05/28/20	05/28/20	2021071	
Carbonate (CO3)	SM 2320B	6.2	mg/L	5.0		05/28/20	05/28/20	2021071	
Chloride (Cl)	EPA 300.0	24	mg/L	1.0	0.075	05/20/20	05/20/20	2021068	
Specific Conductance (E.C.)	SM 2510B	390	umhos/cm	2.0	0.20	05/20/20	05/20/20	2021071	
Fluoride (F)	EPA 300.0	2.6	mg/L	0.10	0.026	05/20/20	05/20/20	2021068	
Hardness, Total (as CaCO3)	Calculated	29	mg/L	6.6		05/28/20	05/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021071	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		05/26/20	05/26/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	1.0	mg/L	0.40	0.12	05/20/20	05/20/20	2021068	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	05/20/20	05/20/20	2021068	
pH (Lab)	SM 4500HB	8.9	pH Units			05/20/20	05/20/20	2021071	
Sulfate (SO4)	EPA 300.0	17	mg/L	0.50	0.14	05/20/20	05/20/20	2021068	
Total Filterable Residue/TDS	SM 2540C	220	mg/L	5.0	3.1	05/21/20	05/22/20	2021110	

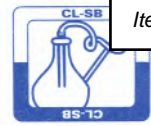
Metals

Calcium (Ca)	EPA 200.7	10	mg/L	1.0	0.080	05/28/20	05/28/20	2022095	
Magnesium (Mg)	EPA 200.7	0.86	mg/L	1.0	0.51	05/28/20	05/28/20	2022095	J
Potassium (K)	EPA 200.7	0.71	mg/L	1.0	0.18	05/28/20	05/28/20	2022095	J
Silica (SiO2)	EPA 200.7	18	mg/L	0.50	0.018	05/29/20	05/29/20	2022141	
Sodium (Na)	EPA 200.7	83	mg/L	1.0	0.21	05/28/20	05/28/20	2022095	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

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Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20E1498
Received: 05/20/20 08:50
Reported: 06/01/20

San Tim 2B-2

20E1498-03 (Water)

Sample Date: 05/18/20 14:08

Sampler: C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	110	mg/L	5.0		05/28/20	05/28/20	2021071	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	05/26/20	05/26/20	2022015	
Bicarbonate (HCO3)	SM 2320 B	100	mg/L	5.0		05/28/20	05/28/20	2021071	
Carbonate (CO3)	SM 2320B	18	mg/L	5.0		05/28/20	05/28/20	2021071	
Chloride (Cl)	EPA 300.0	21	mg/L	1.0	0.075	05/20/20	05/20/20	2021068	
Specific Conductance (E.C.)	SM 2510B	360	umhos/cm	2.0	0.20	05/20/20	05/20/20	2021071	
Fluoride (F)	EPA 300.0	2.5	mg/L	0.10	0.026	05/20/20	05/20/20	2021068	
Hardness, Total (as CaCO3)	Calculated	ND	mg/L	6.6		05/28/20	05/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021071	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		05/26/20	05/26/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	1.2	mg/L	0.40	0.12	05/20/20	05/20/20	2021068	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	05/20/20	05/20/20	2021068	
pH (Lab)	SM 4500HB	9.4	pH Units			05/20/20	05/20/20	2021071	
Sulfate (SO4)	EPA 300.0	16	mg/L	0.50	0.14	05/20/20	05/20/20	2021068	
Total Filterable Residue/TDS	SM 2540C	200	mg/L	5.0	3.1	05/21/20	05/22/20	2021110	

Metals

Calcium (Ca)	EPA 200.7	2.2	mg/L	1.0	0.080	05/28/20	05/28/20	2022095	
Magnesium (Mg)	EPA 200.7	ND	mg/L	1.0	0.51	05/28/20	05/28/20	2022095	
Potassium (K)	EPA 200.7	0.21	mg/L	1.0	0.18	05/28/20	05/28/20	2022095	J
Silica (SiO2)	EPA 200.7	16	mg/L	0.50	0.018	05/26/20	05/26/20	2022026	
Sodium (Na)	EPA 200.7	79	mg/L	1.0	0.21	05/28/20	05/28/20	2022095	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20E1498
Received: 05/20/20 08:50
Reported: 06/01/20

Henry Schwenkert

20E1498-04 (Water)

Sample Date: 05/18/20 15:13

Sampler: C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	360	mg/L	5.0		05/28/20	05/28/20	2021071	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	05/26/20	05/26/20	2022015	
Bicarbonate (HCO3)	SM 2320 B	440	mg/L	5.0		05/28/20	05/28/20	2021071	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021071	
Chloride (Cl)	EPA 300.0	100	mg/L	1.0	0.075	05/20/20	05/20/20	2021068	
Specific Conductance (E.C.)	SM 2510B	1300	umhos/cm	2.0	0.20	05/20/20	05/20/20	2021071	
Fluoride (F)	EPA 300.0	0.44	mg/L	0.10	0.026	05/20/20	05/20/20	2021068	
Hardness, Total (as CaCO3)	Calculated	120	mg/L	6.6		05/28/20	05/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021071	
Inorganic Nitrogen	Calculated	25	mg/L	1.3		05/26/20	05/26/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	25	mg/L	0.40	0.12	05/20/20	05/20/20	2021068	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	05/20/20	05/20/20	2021068	
pH (Lab)	SM 4500HB	8.0	pH Units			05/20/20	05/20/20	2021071	
Sulfate (SO4)	EPA 300.0	61	mg/L	0.50	0.14	05/20/20	05/20/20	2021068	
Total Filterable Residue/TDS	SM 2540C	780	mg/L	5.0	3.1	05/21/20	05/22/20	2021110	

Metals

Calcium (Ca)	EPA 200.7	42	mg/L	1.0	0.080	05/28/20	05/28/20	2022095	
Magnesium (Mg)	EPA 200.7	4.6	mg/L	1.0	0.51	05/28/20	05/28/20	2022095	
Potassium (K)	EPA 200.7	0.75	mg/L	1.0	0.18	05/28/20	05/28/20	2022095	J
Silica (SiO2)	EPA 200.7	22	mg/L	0.50	0.018	05/26/20	05/26/20	2022026	
Sodium (Na)	EPA 200.7	230	mg/L	5.0	1.1	05/28/20	05/28/20	2022095	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20E1498
Received: 05/20/20 08:50
Reported: 06/01/20

CVMWC-1

20E1498-05 (Water)

Sample Date: 05/19/20 11:25

Sampler: C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	180	mg/L	5.0		05/28/20	05/28/20	2021071	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	05/26/20	05/26/20	2022015	
Bicarbonate (HCO3)	SM 2320 B	230	mg/L	5.0		05/28/20	05/28/20	2021071	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021071	
Chloride (Cl)	EPA 300.0	28	mg/L	1.0	0.075	05/20/20	05/20/20	2021068	
Specific Conductance (E.C.)	SM 2510B	620	umhos/cm	2.0	0.20	05/20/20	05/20/20	2021071	
Fluoride (F)	EPA 300.0	0.52	mg/L	0.10	0.026	05/20/20	05/20/20	2021068	
Hardness, Total (as CaCO3)	Calculated	250	mg/L	6.6		05/28/20	05/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021071	
Inorganic Nitrogen	Calculated	14	mg/L	1.3		05/26/20	05/26/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	14	mg/L	0.40	0.12	05/20/20	05/20/20	2021068	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	05/20/20	05/20/20	2021068	
pH (Lab)	SM 4500HB	7.8	pH Units			05/20/20	05/20/20	2021071	
Sulfate (SO4)	EPA 300.0	37	mg/L	0.50	0.14	05/20/20	05/20/20	2021068	
Total Filterable Residue/TDS	SM 2540C	400	mg/L	5.0	3.1	05/21/20	05/22/20	2021110	

Metals

Calcium (Ca)	EPA 200.7	56	mg/L	1.0	0.080	05/28/20	05/28/20	2022095	
Magnesium (Mg)	EPA 200.7	27	mg/L	1.0	0.51	05/28/20	05/28/20	2022095	
Potassium (K)	EPA 200.7	1.1	mg/L	1.0	0.18	05/28/20	05/28/20	2022095	
Silica (SiO2)	EPA 200.7	42	mg/L	0.50	0.018	05/26/20	05/26/20	2022026	
Sodium (Na)	EPA 200.7	36	mg/L	1.0	0.21	05/28/20	05/28/20	2022095	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20E1498
Received: 05/20/20 08:50
Reported: 06/01/20

Cherry Valley Nursery

20E1498-06 (Water)

Sample Date: 05/19/20 11:50

Sampler: C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	160	mg/L	5.0		05/28/20	05/28/20	2021071	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	05/26/20	05/26/20	2022015	
Bicarbonate (HCO3)	SM 2320 B	190	mg/L	5.0		05/28/20	05/28/20	2021071	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021071	
Chloride (Cl)	EPA 300.0	18	mg/L	1.0	0.075	05/20/20	05/20/20	2021068	
Specific Conductance (E.C.)	SM 2510B	440	umhos/cm	2.0	0.20	05/20/20	05/20/20	2021071	
Fluoride (F)	EPA 300.0	0.50	mg/L	0.10	0.026	05/20/20	05/20/20	2021068	
Hardness, Total (as CaCO3)	Calculated	180	mg/L	6.6		05/28/20	05/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021071	
Inorganic Nitrogen	Calculated	6.2	mg/L	1.3		05/26/20	05/26/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	6.2	mg/L	0.40	0.12	05/20/20	05/20/20	2021068	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	05/20/20	05/20/20	2021068	
pH (Lab)	SM 4500HB	7.9	pH Units			05/20/20	05/20/20	2021071	
Sulfate (SO4)	EPA 300.0	11	mg/L	0.50	0.14	05/20/20	05/20/20	2021068	
Total Filterable Residue/TDS	SM 2540C	260	mg/L	5.0	3.1	05/21/20	05/22/20	2021110	

Metals

Calcium (Ca)	EPA 200.7	49	mg/L	1.0	0.080	05/28/20	05/28/20	2022095	
Magnesium (Mg)	EPA 200.7	15	mg/L	1.0	0.51	05/28/20	05/28/20	2022095	
Potassium (K)	EPA 200.7	1.7	mg/L	1.0	0.18	05/28/20	05/28/20	2022095	
Silica (SiO2)	EPA 200.7	27	mg/L	0.50	0.018	05/26/20	05/26/20	2022026	
Sodium (Na)	EPA 200.7	21	mg/L	1.0	0.21	05/28/20	05/28/20	2022095	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20E1498
Received: 05/20/20 08:50
Reported: 06/01/20

Oak Valley Office

20E1498-07 (Water)

Sample Date: 05/19/20 12:50

Sampler: C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	150	mg/L	5.0		05/28/20	05/28/20	2021071	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	05/26/20	05/26/20	2022015	
Bicarbonate (HCO3)	SM 2320 B	180	mg/L	5.0		05/28/20	05/28/20	2021071	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021071	
Chloride (Cl)	EPA 300.0	4.6	mg/L	1.0	0.075	05/20/20	05/20/20	2021068	
Specific Conductance (E.C.)	SM 2510B	320	umhos/cm	2.0	0.20	05/20/20	05/20/20	2021071	
Fluoride (F)	EPA 300.0	0.28	mg/L	0.10	0.026	05/20/20	05/20/20	2021068	
Hardness, Total (as CaCO3)	Calculated	110	mg/L	6.6		05/28/20	05/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021071	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		05/26/20	05/26/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	0.87	mg/L	0.40	0.12	05/20/20	05/20/20	2021068	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	05/20/20	05/20/20	2021068	
pH (Lab)	SM 4500HB	8.2	pH Units			05/20/20	05/20/20	2021071	
Sulfate (SO4)	EPA 300.0	10	mg/L	0.50	0.14	05/20/20	05/20/20	2021068	
Total Filterable Residue/TDS	SM 2540C	190	mg/L	5.0	3.1	05/21/20	05/22/20	2021110	

Metals

Calcium (Ca)	EPA 200.7	33	mg/L	1.0	0.080	05/28/20	05/28/20	2022095	
Magnesium (Mg)	EPA 200.7	7.7	mg/L	1.0	0.51	05/28/20	05/28/20	2022095	
Potassium (K)	EPA 200.7	1.7	mg/L	1.0	0.18	05/28/20	05/28/20	2022095	
Silica (SiO2)	EPA 200.7	24	mg/L	0.50	0.018	05/26/20	05/26/20	2022026	
Sodium (Na)	EPA 200.7	31	mg/L	1.0	0.21	05/28/20	05/28/20	2022095	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20E1498
Received: 05/20/20 08:50
Reported: 06/01/20

Singleton Ranch 7

20E1498-08 (Water)

Sample Date: 05/19/20 13:15

Sampler: C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	170	mg/L	5.0		05/28/20	05/28/20	2021071	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	05/26/20	05/26/20	2022015	
Bicarbonate (HCO3)	SM 2320 B	210	mg/L	5.0		05/28/20	05/28/20	2021071	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021071	
Chloride (Cl)	EPA 300.0	11	mg/L	1.0	0.075	05/20/20	05/20/20	2021068	
Specific Conductance (E.C.)	SM 2510B	400	umhos/cm	2.0	0.20	05/20/20	05/20/20	2021071	
Fluoride (F)	EPA 300.0	0.36	mg/L	0.10	0.026	05/20/20	05/20/20	2021068	
Hardness, Total (as CaCO3)	Calculated	180	mg/L	6.6		05/28/20	05/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021071	
Inorganic Nitrogen	Calculated	2.0	mg/L	1.3		05/26/20	05/26/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	2.0	mg/L	0.40	0.12	05/20/20	05/20/20	2021068	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	05/20/20	05/20/20	2021068	
pH (Lab)	SM 4500HB	8.0	pH Units			05/20/20	05/20/20	2021071	
Sulfate (SO4)	EPA 300.0	13	mg/L	0.50	0.14	05/20/20	05/20/20	2021068	
Total Filterable Residue/TDS	SM 2540C	240	mg/L	5.0	3.1	05/21/20	05/22/20	2021110	

Metals

Calcium (Ca)	EPA 200.7	48	mg/L	1.0	0.080	05/28/20	05/28/20	2022095	
Magnesium (Mg)	EPA 200.7	16	mg/L	1.0	0.51	05/28/20	05/28/20	2022095	
Potassium (K)	EPA 200.7	1.9	mg/L	1.0	0.18	05/28/20	05/28/20	2022095	
Silica (SiO2)	EPA 200.7	27	mg/L	0.50	0.018	05/29/20	05/29/20	2022141	
Sodium (Na)	EPA 200.7	20	mg/L	1.0	0.21	05/28/20	05/28/20	2022095	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20E1498
Received: 05/20/20 08:50
Reported: 06/01/20

Beaumont Cemetery

20E1498-09 (Water)

Sample Date: 05/19/20 15:00

Sampler: C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	220	mg/L	5.0		05/28/20	05/28/20	2021071	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	05/26/20	05/26/20	2022015	
Bicarbonate (HCO3)	SM 2320 B	270	mg/L	5.0		05/28/20	05/28/20	2021071	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021071	
Chloride (Cl)	EPA 300.0	28	mg/L	1.0	0.075	05/20/20	05/20/20	2021068	
Specific Conductance (E.C.)	SM 2510B	580	umhos/cm	2.0	0.20	05/20/20	05/20/20	2021071	
Fluoride (F)	EPA 300.0	0.36	mg/L	0.10	0.026	05/20/20	05/20/20	2021068	
Hardness, Total (as CaCO3)	Calculated	260	mg/L	6.6		05/28/20	05/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021071	
Inorganic Nitrogen	Calculated	6.5	mg/L	1.3		05/26/20	05/26/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	6.5	mg/L	0.40	0.12	05/20/20	05/20/20	2021068	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	05/20/20	05/20/20	2021068	
pH (Lab)	SM 4500HB	8.0	pH Units			05/20/20	05/20/20	2021071	
Sulfate (SO4)	EPA 300.0	13	mg/L	0.50	0.14	05/20/20	05/20/20	2021068	
Total Filterable Residue/TDS	SM 2540C	370	mg/L	5.0	3.1	05/21/20	05/22/20	2021110	

Metals

Calcium (Ca)	EPA 200.7	78	mg/L	1.0	0.080	05/28/20	05/28/20	2022095	
Magnesium (Mg)	EPA 200.7	15	mg/L	1.0	0.51	05/28/20	05/28/20	2022095	
Potassium (K)	EPA 200.7	1.6	mg/L	1.0	0.18	05/28/20	05/28/20	2022095	
Silica (SiO2)	EPA 200.7	37	mg/L	0.50	0.018	05/26/20	05/26/20	2022026	
Sodium (Na)	EPA 200.7	24	mg/L	1.0	0.21	05/28/20	05/28/20	2022095	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20E1498
Received: 05/20/20 08:50
Reported: 06/01/20

George Witter

20E1498-10 (Water)

Sample Date: 05/19/20 15:30

Sampler: C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	160	mg/L	5.0		05/28/20	05/28/20	2021071	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	05/26/20	05/26/20	2022015	
Bicarbonate (HCO3)	SM 2320 B	200	mg/L	5.0		05/28/20	05/28/20	2021071	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021071	
Chloride (Cl)	EPA 300.0	21	mg/L	1.0	0.075	05/20/20	05/20/20	2021068	
Specific Conductance (E.C.)	SM 2510B	410	umhos/cm	2.0	0.20	05/20/20	05/20/20	2021071	
Fluoride (F)	EPA 300.0	0.57	mg/L	0.10	0.026	05/20/20	05/20/20	2021068	
Hardness, Total (as CaCO3)	Calculated	140	mg/L	6.6		05/28/20	05/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021071	
Inorganic Nitrogen	Calculated	3.6	mg/L	1.3		05/26/20	05/26/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	3.6	mg/L	0.40	0.12	05/20/20	05/20/20	2021068	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	05/20/20	05/20/20	2021068	
pH (Lab)	SM 4500HB	8.3	pH Units			05/20/20	05/20/20	2021071	
Sulfate (SO4)	EPA 300.0	3.2	mg/L	0.50	0.14	05/20/20	05/20/20	2021068	
Total Filterable Residue/TDS	SM 2540C	230	mg/L	5.0	3.1	05/21/20	05/22/20	2021110	

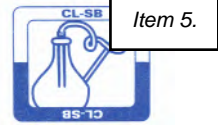
Metals

Calcium (Ca)	EPA 200.7	38	mg/L	1.0	0.080	05/28/20	05/28/20	2022095	
Magnesium (Mg)	EPA 200.7	11	mg/L	1.0	0.51	05/28/20	05/28/20	2022095	
Potassium (K)	EPA 200.7	1.7	mg/L	1.0	0.18	05/28/20	05/28/20	2022095	
Silica (SiO2)	EPA 200.7	23	mg/L	0.50	0.018	05/26/20	05/26/20	2022026	
Sodium (Na)	EPA 200.7	35	mg/L	1.0	0.21	05/28/20	05/28/20	2022095	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20E1498
Received: 05/20/20 08:50
Reported: 06/01/20

Dowling Orchard

20E1498-11 (Water)

Sample Date: 05/19/20 16:08

Sampler: C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	240	mg/L	5.0		05/28/20	05/28/20	2021071	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	05/26/20	05/26/20	2022015	
Bicarbonate (HCO3)	SM 2320 B	290	mg/L	5.0		05/28/20	05/28/20	2021071	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021071	
Chloride (Cl)	EPA 300.0	37	mg/L	1.0	0.075	05/20/20	05/20/20	2021068	
Specific Conductance (E.C.)	SM 2510B	660	umhos/cm	2.0	0.20	05/20/20	05/20/20	2021071	
Fluoride (F)	EPA 300.0	0.32	mg/L	0.10	0.026	05/20/20	05/20/20	2021068	
Hardness, Total (as CaCO3)	Calculated	170	mg/L	6.6		05/28/20	05/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021071	
Inorganic Nitrogen	Calculated	5.1	mg/L	1.3		05/26/20	05/26/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	5.1	mg/L	0.40	0.12	05/20/20	05/20/20	2021068	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	05/20/20	05/20/20	2021068	
pH (Lab)	SM 4500HB	8.0	pH Units			05/20/20	05/20/20	2021071	
Sulfate (SO4)	EPA 300.0	33	mg/L	0.50	0.14	05/20/20	05/20/20	2021068	
Total Filterable Residue/TDS	SM 2540C	370	mg/L	5.0	3.1	05/21/20	05/22/20	2021110	

Metals

Calcium (Ca)	EPA 200.7	41	mg/L	1.0	0.080	05/28/20	05/28/20	2022095	
Magnesium (Mg)	EPA 200.7	18	mg/L	1.0	0.51	05/28/20	05/28/20	2022095	
Potassium (K)	EPA 200.7	4.2	mg/L	1.0	0.18	05/28/20	05/28/20	2022095	
Silica (SiO2)	EPA 200.7	18	mg/L	0.50	0.018	05/26/20	05/26/20	2022026	
Sodium (Na)	EPA 200.7	61	mg/L	1.0	0.21	05/28/20	05/28/20	2022095	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20E1498
Received: 05/20/20 08:50
Reported: 06/01/20

Joe Pistilli

20E1498-12 (Water)

Sample Date: 05/19/20 17:00

Sampler: C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	130	mg/L	5.0		05/28/20	05/28/20	2021071	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	05/29/20	05/29/20	2022118	
Bicarbonate (HCO3)	SM 2320 B	150	mg/L	5.0		05/28/20	05/28/20	2021071	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021071	
Chloride (Cl)	EPA 300.0	15	mg/L	1.0	0.075	05/20/20	05/20/20	2021068	
Specific Conductance (E.C.)	SM 2510B	420	umhos/cm	2.0	0.20	05/20/20	05/20/20	2021071	
Fluoride (F)	EPA 300.0	0.39	mg/L	0.10	0.026	05/20/20	05/20/20	2021068	
Hardness, Total (as CaCO3)	Calculated	160	mg/L	6.6		05/28/20	05/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021071	
Inorganic Nitrogen	Calculated	13	mg/L	1.3		05/29/20	05/29/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	13	mg/L	0.40	0.12	05/20/20	05/20/20	2021068	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	05/20/20	05/20/20	2021068	
pH (Lab)	SM 4500HB	8.1	pH Units			05/20/20	05/20/20	2021071	
Sulfate (SO4)	EPA 300.0	9.9	mg/L	0.50	0.14	05/20/20	05/20/20	2021068	
Total Filterable Residue/TDS	SM 2540C	260	mg/L	5.0	3.1	05/22/20	05/26/20	2021155	

Metals

Calcium (Ca)	EPA 200.7	51	mg/L	1.0	0.080	05/28/20	05/28/20	2022095	
Magnesium (Mg)	EPA 200.7	8.8	mg/L	1.0	0.51	05/28/20	05/28/20	2022095	
Potassium (K)	EPA 200.7	1.5	mg/L	1.0	0.18	05/28/20	05/28/20	2022095	
Silica (SiO2)	EPA 200.7	27	mg/L	0.50	0.018	05/26/20	05/26/20	2022026	
Sodium (Na)	EPA 200.7	24	mg/L	1.0	0.21	05/28/20	05/28/20	2022095	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20E1498
Received: 05/20/20 08:50
Reported: 06/01/20

Heartland

20E1498-13 (Water)

Sample Date: 05/18/20 17:45

Sampler: C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	220	mg/L	5.0		05/28/20	05/28/20	2021071	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	05/29/20	05/29/20	2022118	
Bicarbonate (HCO3)	SM 2320 B	260	mg/L	5.0		05/28/20	05/28/20	2021071	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021071	
Chloride (Cl)	EPA 300.0	62	mg/L	1.0	0.075	05/20/20	05/20/20	2021068	
Specific Conductance (E.C.)	SM 2510B	660	umhos/cm	2.0	0.20	05/20/20	05/20/20	2021071	
Fluoride (F)	EPA 300.0	0.43	mg/L	0.10	0.026	05/20/20	05/20/20	2021068	
Hardness, Total (as CaCO3)	Calculated	210	mg/L	6.6		05/28/20	05/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021071	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		05/29/20	05/29/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	0.85	mg/L	0.40	0.12	05/20/20	05/20/20	2021068	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	05/20/20	05/20/20	2021068	
pH (Lab)	SM 4500HB	8.1	pH Units			05/20/20	05/20/20	2021071	
Sulfate (SO4)	EPA 300.0	32	mg/L	0.50	0.14	05/20/20	05/20/20	2021068	
Total Filterable Residue/TDS	SM 2540C	380	mg/L	5.0	3.1	05/22/20	05/26/20	2021155	

Metals

Calcium (Ca)	EPA 200.7	58	mg/L	1.0	0.080	05/28/20	05/28/20	2022095	
Magnesium (Mg)	EPA 200.7	16	mg/L	1.0	0.51	05/28/20	05/28/20	2022095	
Potassium (K)	EPA 200.7	1.8	mg/L	1.0	0.18	05/28/20	05/28/20	2022095	
Silica (SiO2)	EPA 200.7	24	mg/L	0.50	0.018	05/26/20	05/26/20	2022026	
Sodium (Na)	EPA 200.7	62	mg/L	1.0	0.21	05/28/20	05/28/20	2022095	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20E1498
Received: 05/20/20 08:50
Reported: 06/01/20

Oak Valley 2

20E1498-14 (Water)

Sample Date: 05/20/20 6:30

Sampler: C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	150	mg/L	5.0		05/28/20	05/28/20	2021071	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	05/29/20	05/29/20	2022118	
Bicarbonate (HCO3)	SM 2320 B	180	mg/L	5.0		05/28/20	05/28/20	2021071	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021071	
Chloride (Cl)	EPA 300.0	7.3	mg/L	1.0	0.075	05/20/20	05/20/20	2021068	
Specific Conductance (E.C.)	SM 2510B	340	umhos/cm	2.0	0.20	05/20/20	05/20/20	2021071	
Fluoride (F)	EPA 300.0	0.46	mg/L	0.10	0.026	05/20/20	05/20/20	2021068	
Hardness, Total (as CaCO3)	Calculated	140	mg/L	6.6		05/28/20	05/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021071	
Inorganic Nitrogen	Calculated	2.5	mg/L	1.3		05/29/20	05/29/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	2.5	mg/L	0.40	0.12	05/20/20	05/20/20	2021068	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	05/20/20	05/20/20	2021068	
pH (Lab)	SM 4500HB	8.0	pH Units			05/20/20	05/20/20	2021071	
Sulfate (SO4)	EPA 300.0	7.6	mg/L	0.50	0.14	05/20/20	05/20/20	2021068	
Total Filterable Residue/TDS	SM 2540C	190	mg/L	5.0	3.1	05/22/20	05/26/20	2021155	

Metals

Calcium (Ca)	EPA 200.7	38	mg/L	1.0	0.080	05/28/20	05/28/20	2022095	
Magnesium (Mg)	EPA 200.7	11	mg/L	1.0	0.51	05/28/20	05/28/20	2022095	
Potassium (K)	EPA 200.7	1.6	mg/L	1.0	0.18	05/28/20	05/28/20	2022095	
Silica (SiO2)	EPA 200.7	29	mg/L	0.50	0.018	05/26/20	05/26/20	2022026	
Sodium (Na)	EPA 200.7	21	mg/L	1.0	0.21	05/28/20	05/28/20	2022095	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

0/0/14

WO 20E1498

Clinical Lab of San Bernardino, Inc. Chain of Custody
 21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client		City of Beaumont		Destination Laboratory		Analysis Requested												Turn Around Time (TAT)	
Address:		550 E. 6th St.		[X] Clinical Grand Terrace / ELAP 1088															
Client Contact:		Beaumont, CA 92223		[] Clinical Lompoc / ELAP 1678															
Phone No.:		Thaxton VanBelle		[] Other:															
System No.:		951-769-8520		FAX No.: 951-769-8526															
Project:		Max Benefits - Beaumont GMZ																	
Sampled By:		C. Hunter																	
Comments:		Email results to: TVanBelle@beaumontca.gov, ckhunter@dudek.com, stuart@dudek.com																	
Date	Time	Sample Identification	Container ID	Matrix	Sample Type	No. of Preserved Cont.												Comments	
						Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnCl2	ChlorAC	Total Containers			
5/15/20	14:35	Sea Tim - 1	571	GW		X										2			
	14:00	Sea Tim 2B-1	281	GW		X										2			
	14:08	Sea Tim 2B-2	282	GW		X										2			
	15:13	Henry Szwankowka	111	GW		X										2			
5/15/20	11:25	CVMWC 1	CVN	GW		X										2			
	11:50	Cherry Valley Nursery	CVN	GW		X										2			
	12:50	Oak Valley Nursery	CVN	GW		X										2			

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other		TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush		
Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well				
Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
<i>[Signature]</i>	C. Hunter / Dudek	5/15/20 17:40	<i>[Signature]</i>	St. Styles / CWSB
<i>[Signature]</i>	St. Styles / CWSB	5/15/20 8:20	<i>[Signature]</i>	St. Styles / CWSB

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C
 Shipped Via: [] Fed Ex [] Golden State Overnight [] UPS [] OnTrac [] USPS [] Other
 Condition: On Wet Ice [] On Blu Ice Intact [] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____
 Receipt Comments: _____ Clinical Lab Receipt Temp.: 4.1 °C

Clinical Lab of San Bernardino, Inc.

Chain of Custody

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

WO _____

Client		Destination Laboratory										Analysis Requested												Turn Around Time (TAT)
City of Beaumont		[X] Clinical Grand Terrace / ELAP 1088 [] Clinical Lompoc / ELAP 1078 [] Other:										Silica (EPA 200.7) Fluoride (EPA 300.0) Chloride (EPA 300.0) pH (SM 4500H+B) Specific Conductance (SM 2510B) Sulfate (EPA 300.0) Ca, Mg, K, Na (EPA 200.7) Alkalinity (inc. HCO3, CO3, and OH) Ammonia-N (EPA 350.1) Nitrite-N (EPA 300.0) Nitrate-N (EPA 300.0) Total Dissolved Solids (SM 2540C)												Comments
Address:		No. of Preserved Cont.		Sample Type		Matrix		Container ID		Date / Time		Received By (Sign)		Print Name / Company		Date / Time		Received By (Sign)		Print Name / Company				
550 E. 6th St. Beaumont, CA 92223		ChlorAC ZnC4H6O4 Na2SO3 NaOH HCl HNO3 C6H8O6 NH4Cl Na2S2O3 Unpreserved		GW GW GW GW GW GW GW GW GW GW		SWZ BC GW DW TP HE GW		5/19/20 5/20/20 5/20/20 5/20/20 5/18/20 5/20/20		13:15 15:00 15:30 16:07 17:00 17:45 06:30		C. Hunter C. Hunter C. Hunter C. Hunter C. Hunter C. Hunter		5/19/20 18:00 5/20/20-820 5/20/20-850		Sk Sykes / CBS Sk Sykes / CBS		10 10 10 10 10 10 10 10 10 10						
Client Contact: Thaxton VanBelle		Total Containers		Matrix		Container ID		Date / Time		Sample Identification		Received By (Sign)		Print Name / Company		Date / Time		Received By (Sign)		Print Name / Company				
Phone No.: 951-769-8520 FAX No.: 951-769-8526		Unpreserved		GW		SWZ		5/19/20		Singleton Ranch 7		C. Hunter		Dudek		5/19/20 18:00		Sk Sykes / CBS		Sk Sykes / CBS				
System No.:		Sample Type		GW		BC		5/20/20		Beaumont Cemetery		C. Hunter				5/20/20-820		Sk Sykes / CBS		Sk Sykes / CBS				
Project: Max Benefits - Beaumont GMZ		GW		GW		GW		5/20/20		George Witter		C. Hunter				5/20/20-850		Sk Sykes / CBS		Sk Sykes / CBS				
Sampled By: C. Hunter		GW		GW		DW		5/20/20		Dowling Orchard		C. Hunter												
Comments: Email results to: TVanBelle@beaumontca.gov, ckhunter@dudek.com, sstuart@dudek.com		TP		GW		TP		5/18/20		Joe P. Hill		C. Hunter												
Date		GW		GW		HE		5/20/20		Heccentent		C. Hunter												
Time		GW		GW		GW		06:30		O.K. Valley 2		C. Hunter												

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other
 Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign) _____ Date / Time _____ Received By (Sign) _____ Print Name / Company _____
 (Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C
 Shipped Via: [] Fed Ex [] Golden State Overnight [] UPS [] OnTrac [] USPS [] Other _____ Work Order Logged By: _____
 Condition: [] On Wet Ice [] On Blu Ice [X] Intact [] Custody Seals Samples / COC Checked By: _____ Clinical Lab Receipt Temp.: _____ °C
 Receipt Comments:

0/0/14

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20E1630
Received: 05/21/20 10:00
Reported: 06/02/20

Morongo A

20E1630-01 (Water)

Sample Date: 05/20/20 8:00

Sampler: C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	120	mg/L	5.0		05/29/20	05/29/20	2021113	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	05/29/20	05/29/20	2022118	
Bicarbonate (HCO3)	SM 2320 B	130	mg/L	5.0		05/29/20	05/29/20	2021113	
Carbonate (CO3)	SM 2320B	8.6	mg/L	5.0		05/29/20	05/29/20	2021113	
Chloride (Cl)	EPA 300.0	14	mg/L	1.0	0.075	05/21/20	05/21/20	2021118	
Specific Conductance (E.C.)	SM 2510B	300	umhos/cm	2.0	0.20	05/21/20	05/21/20	2021113	
Fluoride (F)	EPA 300.0	0.76	mg/L	0.10	0.026	05/21/20	05/21/20	2021118	
Hardness, Total (as CaCO3)	Calculated	31	mg/L	6.6		05/28/20	05/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		05/29/20	05/29/20	2021113	
Inorganic Nitrogen	Calculated	1.5	mg/L	1.3		05/29/20	05/29/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	1.5	mg/L	0.40	0.12	05/21/20	05/21/20	2021118	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	05/21/20	05/21/20	2021118	
pH (Lab)	SM 4500HB	9.0	pH Units			05/21/20	05/21/20	2021113	
Sulfate (SO4)	EPA 300.0	4.4	mg/L	0.50	0.14	05/21/20	05/21/20	2021118	
Total Filterable Residue/TDS	SM 2540C	180	mg/L	5.0	3.1	05/22/20	05/26/20	2021155	

Metals

Calcium (Ca)	EPA 200.7	8.5	mg/L	1.0	0.080	05/28/20	05/28/20	2022095	
Magnesium (Mg)	EPA 200.7	2.3	mg/L	1.0	0.51	05/28/20	05/28/20	2022095	
Potassium (K)	EPA 200.7	0.89	mg/L	1.0	0.18	05/28/20	05/28/20	2022095	J
Silica (SiO2)	EPA 200.7	16	mg/L	0.50	0.018	05/26/20	05/26/20	2022026	
Sodium (Na)	EPA 200.7	58	mg/L	1.0	0.21	05/28/20	05/28/20	2022095	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20E1630
Received: 05/21/20 10:00
Reported: 06/02/20

Morongo D

20E1630-02 (Water)

Sample Date: 05/20/20 8:30

Sampler: C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	160	mg/L	5.0		05/29/20	05/29/20	2021113	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	05/29/20	05/29/20	2022118	
Bicarbonate (HCO3)	SM 2320 B	190	mg/L	5.0		05/29/20	05/29/20	2021113	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		05/29/20	05/29/20	2021113	
Chloride (Cl)	EPA 300.0	8.3	mg/L	1.0	0.075	05/21/20	05/21/20	2021118	
Specific Conductance (E.C.)	SM 2510B	350	umhos/cm	2.0	0.20	05/21/20	05/21/20	2021113	
Fluoride (F)	EPA 300.0	0.58	mg/L	0.10	0.026	05/21/20	05/21/20	2021118	
Hardness, Total (as CaCO3)	Calculated	140	mg/L	6.6		05/28/20	05/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		05/29/20	05/29/20	2021113	
Inorganic Nitrogen	Calculated	2.4	mg/L	1.3		05/29/20	05/29/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	2.4	mg/L	0.40	0.12	05/21/20	05/21/20	2021118	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	05/21/20	05/21/20	2021118	
pH (Lab)	SM 4500HB	8.0	pH Units			05/21/20	05/21/20	2021113	
Sulfate (SO4)	EPA 300.0	7.3	mg/L	0.50	0.14	05/21/20	05/21/20	2021118	
Total Filterable Residue/TDS	SM 2540C	210	mg/L	5.0	3.1	05/22/20	05/26/20	2021155	

Metals

Calcium (Ca)	EPA 200.7	33	mg/L	1.0	0.080	05/28/20	05/28/20	2022095	
Magnesium (Mg)	EPA 200.7	15	mg/L	1.0	0.51	05/28/20	05/28/20	2022095	
Potassium (K)	EPA 200.7	1.2	mg/L	1.0	0.18	05/28/20	05/28/20	2022095	
Silica (SiO2)	EPA 200.7	31	mg/L	0.50	0.018	05/26/20	05/26/20	2022026	
Sodium (Na)	EPA 200.7	22	mg/L	1.0	0.21	05/28/20	05/28/20	2022095	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20E1630
Received: 05/21/20 10:00
Reported: 06/02/20

MCM Poultry Ranch

20E1630-03 (Water)

Sample Date: 05/20/20 9:30

Sampler: C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	280	mg/L	5.0		05/29/20	05/29/20	2021113	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	05/29/20	05/29/20	2022118	
Bicarbonate (HCO3)	SM 2320 B	340	mg/L	5.0		05/29/20	05/29/20	2021113	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		05/29/20	05/29/20	2021113	
Chloride (Cl)	EPA 300.0	190	mg/L	1.0	0.075	05/21/20	05/21/20	2021118	
Specific Conductance (E.C.)	SM 2510B	1300	umhos/cm	2.0	0.20	05/21/20	05/21/20	2021113	
Fluoride (F)	EPA 300.0	0.39	mg/L	0.10	0.026	05/21/20	05/21/20	2021118	
Hardness, Total (as CaCO3)	Calculated	440	mg/L	17		05/28/20	05/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		05/29/20	05/29/20	2021113	
Inorganic Nitrogen	Calculated	16	mg/L	1.3		05/29/20	05/29/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	16	mg/L	0.40	0.12	05/21/20	05/21/20	2021118	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	05/21/20	05/21/20	2021118	
pH (Lab)	SM 4500HB	8.0	pH Units			05/21/20	05/21/20	2021113	
Sulfate (SO4)	EPA 300.0	41	mg/L	0.50	0.14	05/21/20	05/21/20	2021118	
Total Filterable Residue/TDS	SM 2540C	780	mg/L	5.0	3.1	05/22/20	05/26/20	2021155	

Metals

Calcium (Ca)	EPA 200.7	110	mg/L	5.0	0.40	05/28/20	05/28/20	2022095	
Magnesium (Mg)	EPA 200.7	39	mg/L	1.0	0.51	05/28/20	05/28/20	2022095	
Potassium (K)	EPA 200.7	4.2	mg/L	1.0	0.18	05/28/20	05/28/20	2022095	
Silica (SiO2)	EPA 200.7	28	mg/L	0.50	0.018	05/26/20	05/26/20	2022026	
Sodium (Na)	EPA 200.7	93	mg/L	1.0	0.21	05/28/20	05/28/20	2022095	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20E1630
Received: 05/21/20 10:00
Reported: 06/02/20

Desert Lawn Funeral

20E1630-04 (Water)

Sample Date: 05/20/20 10:30

Sampler: C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	180	mg/L	5.0		05/29/20	05/29/20	2021113	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	05/29/20	05/29/20	2022118	
Bicarbonate (HCO3)	SM 2320 B	220	mg/L	5.0		05/29/20	05/29/20	2021113	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		05/29/20	05/29/20	2021113	
Chloride (Cl)	EPA 300.0	6.9	mg/L	1.0	0.075	05/21/20	05/21/20	2021118	
Specific Conductance (E.C.)	SM 2510B	390	umhos/cm	2.0	0.20	05/21/20	05/21/20	2021113	
Fluoride (F)	EPA 300.0	0.41	mg/L	0.10	0.026	05/21/20	05/21/20	2021118	
Hardness, Total (as CaCO3)	Calculated	180	mg/L	6.6		05/28/20	05/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		05/29/20	05/29/20	2021113	
Inorganic Nitrogen	Calculated	1.4	mg/L	1.3		05/29/20	05/29/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	1.4	mg/L	0.40	0.12	05/21/20	05/21/20	2021118	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	05/21/20	05/21/20	2021118	
pH (Lab)	SM 4500HB	8.0	pH Units			05/21/20	05/21/20	2021113	
Sulfate (SO4)	EPA 300.0	11	mg/L	0.50	0.14	05/21/20	05/21/20	2021118	
Total Filterable Residue/TDS	SM 2540C	240	mg/L	5.0	3.1	05/22/20	05/26/20	2021155	

Metals

Calcium (Ca)	EPA 200.7	44	mg/L	1.0	0.080	05/28/20	05/28/20	2022095	
Magnesium (Mg)	EPA 200.7	16	mg/L	1.0	0.51	05/28/20	05/28/20	2022095	
Potassium (K)	EPA 200.7	1.8	mg/L	1.0	0.18	05/28/20	05/28/20	2022095	
Silica (SiO2)	EPA 200.7	30	mg/L	0.50	0.018	05/26/20	05/26/20	2022026	
Sodium (Na)	EPA 200.7	17	mg/L	1.0	0.21	05/28/20	05/28/20	2022095	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20E1630
Received: 05/21/20 10:00
Reported: 06/02/20

Larry Britton

20E1630-05 (Water)

Sample Date: 05/20/20 11:30

Sampler: C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	180	mg/L	5.0		05/29/20	05/29/20	2021113	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	05/29/20	05/29/20	2022118	
Bicarbonate (HCO3)	SM 2320 B	220	mg/L	5.0		05/29/20	05/29/20	2021113	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		05/29/20	05/29/20	2021113	
Chloride (Cl)	EPA 300.0	6.7	mg/L	1.0	0.075	05/21/20	05/21/20	2021118	
Specific Conductance (E.C.)	SM 2510B	370	umhos/cm	2.0	0.20	05/21/20	05/21/20	2021113	
Fluoride (F)	EPA 300.0	0.37	mg/L	0.10	0.026	05/21/20	05/21/20	2021118	
Hardness, Total (as CaCO3)	Calculated	170	mg/L	6.6		05/28/20	05/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		05/29/20	05/29/20	2021113	
Inorganic Nitrogen	Calculated	1.7	mg/L	1.3		05/29/20	05/29/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	1.7	mg/L	0.40	0.12	05/21/20	05/21/20	2021118	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	05/21/20	05/21/20	2021118	
pH (Lab)	SM 4500HB	8.0	pH Units			05/21/20	05/21/20	2021113	
Sulfate (SO4)	EPA 300.0	8.7	mg/L	0.50	0.14	05/21/20	05/21/20	2021118	
Total Filterable Residue/TDS	SM 2540C	230	mg/L	5.0	3.1	05/22/20	05/26/20	2021155	

Metals

Calcium (Ca)	EPA 200.7	40	mg/L	1.0	0.080	05/28/20	05/28/20	2022095	
Magnesium (Mg)	EPA 200.7	16	mg/L	1.0	0.51	05/28/20	05/28/20	2022095	
Potassium (K)	EPA 200.7	1.6	mg/L	1.0	0.18	05/28/20	05/28/20	2022095	
Silica (SiO2)	EPA 200.7	29	mg/L	0.50	0.018	05/26/20	05/26/20	2022026	
Sodium (Na)	EPA 200.7	20	mg/L	1.0	0.21	05/28/20	05/28/20	2022095	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

0/0/10

WO 20E1630

Clinical Lab of San Bernardino, Inc. Chain of Custody
 21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

City of Beaumont		Destination Laboratory													Analysis Requested										
Address:		<input checked="" type="checkbox"/> Clinical Grand Terrace / ELAP 1088 <input type="checkbox"/> Clinical Lompoc / ELAP 1678 <input type="checkbox"/> Other:													Turn Around Time (TAT)										
Client Contact:		No. of Preserved Cont.		Total Containers										Comments											
Phone No.:		Sample Type		ChlorAC	ZnC4H6O4	Na2SO3	NaOH	HCl	HNO3	C6H8O6	NH4Cl	Na2S2O3	Unpreserved	Silica (EPA 200.7) Fluoride (EPA 300.0) Chloride (EPA 300.0) pH (SM 4500H+B) Specific Conductance (SM 2510B) Sulfate (EPA 300.0) Ca, Mg, K, Na (EPA 200.7) Alkalinity (inc. HCO3, CO3, and OH) Ammonia-N (EPA 350.1) Nitrite-N (EPA 300.0) Nitrate-N (EPA 300.0) Total Dissolved Solids (SM 2540C)											
System No.:		Matrix		Container ID										Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush											
Project:		Date		Time		Sample Identification		Print Name / Company			Date / Time			Received By (Sign)			Print Name / Company								
Sampled By:		5/20/20		8:00		Max Benefits - Beaumont GMZ		C Hunter Dudek			5/20/20 13:00			[Signature]			SK Styles/CSB								
Comments:		5/21/20		8:30		C Hunter Dudek		SK Styles/CSB			5/21/20 8:25			[Signature]			[Signature]								
Email results to:		5/21/20		9:30		MCM Purity Ranch		SK Styles/CSB			5/21/20 10:00			[Signature]			[Signature]								
ckhunter@dudek.com, sstuart@dudek.com		5/21/20		10:30		Desert Lawn Fertilizer		[Signature]			[Signature]			[Signature]			[Signature]								
		5/21/20		11:30		Larry Benton		[Signature]			[Signature]			[Signature]			[Signature]								
								[Signature]			[Signature]			[Signature]			[Signature]								
								[Signature]			[Signature]			[Signature]			[Signature]								

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C
 Shipped Via: Fed Ex Golden State Overnight UPS OnTrac USPS Other _____
 Condition: On Wet Ice On Blu Ice Intact Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____
 Receipt Comments: _____ Clinical Lab Receipt Temp.: 0.8 °C

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20K1074
Received: 11/11/20 15:26
Reported: 11/23/20

Henry Schwenkert **20K1074-01 (Water)** **Sample Date:** 11/10/20 11:30 **Sampler:** Not Listed

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	360	mg/L	5.0		11/18/20	11/18/20	2046073	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/17/20	11/18/20	2047038	
Bicarbonate (HCO3)	SM 2320 B	440	mg/L	5.0		11/18/20	11/18/20	2046073	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		11/18/20	11/18/20	2046073	
Chloride (Cl)	EPA 300.0	100	mg/L	1.0	0.075	11/11/20	11/11/20	2046074	
Specific Conductance (E.C.)	SM 2510B	1300	umhos/cm	2.0	0.20	11/11/20	11/11/20	2046073	
Fluoride (F)	EPA 300.0	0.46	mg/L	0.10	0.026	11/11/20	11/11/20	2046074	
Hardness, Total (as CaCO3)	Calculated	120	mg/L	6.6		11/18/20	11/18/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		11/18/20	11/18/20	2046073	
Inorganic Nitrogen	Calculated	26	mg/L	1.3		11/17/20	11/18/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	26	mg/L	0.40	0.12	11/11/20	11/11/20	2046074	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/11/20	11/11/20	2046074	
pH (Lab)	SM 4500HB	8.0	pH Units			11/11/20	11/11/20	2046073	
Sulfate (SO4)	EPA 300.0	67	mg/L	0.50	0.14	11/11/20	11/11/20	2046074	
Total Filterable Residue/TDS	SM 2540C	760	mg/L	5.0	3.1	11/13/20	11/14/20	2046156	

Metals

Calcium (Ca)	EPA 200.7	41	mg/L	1.0	0.080	11/18/20	11/18/20	2047063	
Magnesium (Mg)	EPA 200.7	4.5	mg/L	1.0	0.51	11/18/20	11/18/20	2047063	
Potassium (K)	EPA 200.7	0.77	mg/L	1.0	0.18	11/18/20	11/18/20	2047063	J
Silica (SiO2)	EPA 200.7	23	mg/L	0.50	0.018	11/13/20	11/13/20	2046155	
Sodium (Na)	EPA 200.7	240	mg/L	5.0	1.1	11/18/20	11/18/20	2047063	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20K1074
Received: 11/11/20 15:26
Reported: 11/23/20

San Tim-2B/1

20K1074-03 (Water)

Sample Date: 11/10/20 13:30

Sampler: Not Listed

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	130	mg/L	5.0		11/18/20	11/18/20	2046073	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/17/20	11/18/20	2047038	
Bicarbonate (HCO3)	SM 2320 B	150	mg/L	5.0		11/18/20	11/18/20	2046073	
Carbonate (CO3)	SM 2320B	5.8	mg/L	5.0		11/18/20	11/18/20	2046073	
Chloride (Cl)	EPA 300.0	27	mg/L	1.0	0.075	11/11/20	11/11/20	2046074	
Specific Conductance (E.C.)	SM 2510B	390	umhos/cm	2.0	0.20	11/11/20	11/11/20	2046073	
Fluoride (F)	EPA 300.0	2.6	mg/L	0.10	0.026	11/11/20	11/11/20	2046074	
Hardness, Total (as CaCO3)	Calculated	29	mg/L	6.6		11/18/20	11/18/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		11/18/20	11/18/20	2046073	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		11/17/20	11/18/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	1.0	mg/L	0.40	0.12	11/11/20	11/11/20	2046074	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/11/20	11/11/20	2046074	
pH (Lab)	SM 4500HB	8.7	pH Units			11/11/20	11/11/20	2046073	
Sulfate (SO4)	EPA 300.0	19	mg/L	0.50	0.14	11/11/20	11/11/20	2046074	
Total Filterable Residue/TDS	SM 2540C	230	mg/L	5.0	3.1	11/13/20	11/14/20	2046156	

Metals

Calcium (Ca)	EPA 200.7	10	mg/L	1.0	0.080	11/18/20	11/18/20	2047063	
Magnesium (Mg)	EPA 200.7	1.0	mg/L	1.0	0.51	11/18/20	11/18/20	2047063	
Potassium (K)	EPA 200.7	0.62	mg/L	1.0	0.18	11/18/20	11/18/20	2047063	J
Silica (SiO2)	EPA 200.7	18	mg/L	0.50	0.018	11/19/20	11/19/20	2047100	
Sodium (Na)	EPA 200.7	80	mg/L	1.0	0.21	11/18/20	11/18/20	2047063	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20K1074
Received: 11/11/20 15:26
Reported: 11/23/20

San Tim-2B/2

20K1074-04 (Water)

Sample Date: 11/10/20 14:00

Sampler: Not Listed

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	110	mg/L	5.0		11/18/20	11/18/20	2046073	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/17/20	11/18/20	2047038	
Bicarbonate (HCO3)	SM 2320 B	90	mg/L	5.0		11/18/20	11/18/20	2046073	
Carbonate (CO3)	SM 2320B	23	mg/L	5.0		11/18/20	11/18/20	2046073	
Chloride (Cl)	EPA 300.0	23	mg/L	1.0	0.075	11/11/20	11/11/20	2046074	
Specific Conductance (E.C.)	SM 2510B	360	umhos/cm	2.0	0.20	11/11/20	11/11/20	2046073	
Fluoride (F)	EPA 300.0	2.4	mg/L	0.10	0.026	11/11/20	11/11/20	2046074	
Hardness, Total (as CaCO3)	Calculated	ND	mg/L	6.6		11/18/20	11/18/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		11/18/20	11/18/20	2046073	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		11/17/20	11/18/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	1.2	mg/L	0.40	0.12	11/11/20	11/11/20	2046074	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/11/20	11/11/20	2046074	
pH (Lab)	SM 4500HB	9.3	pH Units			11/11/20	11/11/20	2046073	
Sulfate (SO4)	EPA 300.0	18	mg/L	0.50	0.14	11/11/20	11/11/20	2046074	
Total Filterable Residue/TDS	SM 2540C	200	mg/L	5.0	3.1	11/13/20	11/14/20	2046156	

Metals

Calcium (Ca)	EPA 200.7	2.1	mg/L	1.0	0.080	11/18/20	11/18/20	2047063	
Magnesium (Mg)	EPA 200.7	ND	mg/L	1.0	0.51	11/18/20	11/18/20	2047063	
Potassium (K)	EPA 200.7	0.26	mg/L	1.0	0.18	11/18/20	11/18/20	2047063	J
Silica (SiO2)	EPA 200.7	16	mg/L	0.50	0.018	11/13/20	11/13/20	2046155	
Sodium (Na)	EPA 200.7	81	mg/L	1.0	0.21	11/18/20	11/18/20	2047063	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20K1074
Received: 11/11/20 15:26
Reported: 11/23/20

CC - 01 20K1074-05 (Water) Sample Date: 11/10/20 15:45 Sampler: Not Listed

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO ₃)	SM 2320 B	150	mg/L	5.0		11/18/20	11/18/20	2046073	
Ammonia as N (NH ₃ -N)	EPA 350.1	ND	mg/L	0.50	0.15	11/17/20	11/18/20	2047038	
Bicarbonate (HCO ₃)	SM 2320 B	180	mg/L	5.0		11/18/20	11/18/20	2046073	
Carbonate (CO ₃)	SM 2320B	ND	mg/L	5.0		11/18/20	11/18/20	2046073	
Chloride (Cl)	EPA 300.0	56	mg/L	1.0	0.075	11/11/20	11/11/20	2046074	
Specific Conductance (E.C.)	SM 2510B	520	umhos/cm	2.0	0.20	11/11/20	11/11/20	2046073	
Fluoride (F)	EPA 300.0	0.18	mg/L	0.10	0.026	11/11/20	11/11/20	2046074	
Hardness, Total (as CaCO ₃)	Calculated	120	mg/L	6.6		11/18/20	11/18/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		11/18/20	11/18/20	2046073	
Inorganic Nitrogen	Calculated	1.9	mg/L	1.3		11/17/20	11/18/20	[CALC]	
Nitrate as N (NO ₃ -N)	EPA 300.0	1.9	mg/L	0.40	0.12	11/11/20	11/11/20	2046074	
Nitrite as N (NO ₂ -N)	EPA 300.0	ND	mg/L	0.40	0.17	11/11/20	11/11/20	2046074	
pH (Lab)	SM 4500HB	8.0	pH Units			11/11/20	11/11/20	2046073	
Sulfate (SO ₄)	EPA 300.0	21	mg/L	0.50	0.14	11/11/20	11/11/20	2046074	
Total Filterable Residue/TDS	SM 2540C	350	mg/L	5.0	3.1	11/14/20	11/16/20	2046176	

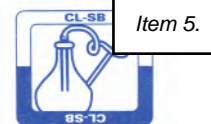
Metals

Calcium (Ca)	EPA 200.7	32	mg/L	1.0	0.080	11/18/20	11/18/20	2047063	
Magnesium (Mg)	EPA 200.7	11	mg/L	1.0	0.51	11/18/20	11/18/20	2047063	
Potassium (K)	EPA 200.7	12	mg/L	1.0	0.18	11/18/20	11/18/20	2047063	
Sodium (Na)	EPA 200.7	64	mg/L	1.0	0.21	11/18/20	11/18/20	2047063	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20K1074
Received: 11/11/20 15:26
Reported: 11/23/20

CC - 03 **20K1074-06 (Water)** Sample Date: 11/10/20 14:45 Sampler: Not Listed

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	160	mg/L	5.0		11/18/20	11/18/20	2046073	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/19/20	11/20/20	2047111	
Bicarbonate (HCO3)	SM 2320 B	190	mg/L	5.0		11/18/20	11/18/20	2046073	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		11/18/20	11/18/20	2046073	
Chloride (Cl)	EPA 300.0	60	mg/L	1.0	0.075	11/11/20	11/11/20	2046074	
Specific Conductance (E.C.)	SM 2510B	560	umhos/cm	2.0	0.20	11/11/20	11/11/20	2046073	
Fluoride (F)	EPA 300.0	0.20	mg/L	0.10	0.026	11/11/20	11/11/20	2046074	
Hardness, Total (as CaCO3)	Calculated	130	mg/L	6.6		11/18/20	11/18/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		11/18/20	11/18/20	2046073	
Inorganic Nitrogen	Calculated	3.1	mg/L	1.3		11/19/20	11/20/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	3.1	mg/L	0.40	0.12	11/11/20	11/11/20	2046074	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/11/20	11/11/20	2046074	
pH (Lab)	SM 4500HB	8.2	pH Units			11/11/20	11/11/20	2046073	
Sulfate (SO4)	EPA 300.0	22	mg/L	0.50	0.14	11/11/20	11/11/20	2046074	
Total Filterable Residue/TDS	SM 2540C	340	mg/L	5.0	3.1	11/14/20	11/16/20	2046176	

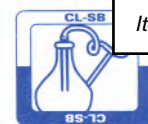
Metals

Calcium (Ca)	EPA 200.7	34	mg/L	1.0	0.080	11/18/20	11/18/20	2047063	
Magnesium (Mg)	EPA 200.7	11	mg/L	1.0	0.51	11/18/20	11/18/20	2047063	
Potassium (K)	EPA 200.7	13	mg/L	1.0	0.18	11/18/20	11/18/20	2047063	
Sodium (Na)	EPA 200.7	66	mg/L	1.0	0.21	11/18/20	11/18/20	2047063	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20K1074
Received: 11/11/20 15:26
Reported: 11/23/20

STC - 01 **20K1074-07 (Water)** **Sample Date:** 11/10/20 12:30 **Sampler:** Not Listed

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	220	mg/L	5.0		11/18/20	11/18/20	2046073	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/19/20	11/20/20	2047111	
Bicarbonate (HCO3)	SM 2320 B	270	mg/L	5.0		11/18/20	11/18/20	2046073	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		11/18/20	11/18/20	2046073	
Chloride (Cl)	EPA 300.0	68	mg/L	1.0	0.075	11/12/20	11/12/20	2046074	
Specific Conductance (E.C.)	SM 2510B	670	umhos/cm	2.0	0.20	11/11/20	11/11/20	2046073	
Fluoride (F)	EPA 300.0	0.39	mg/L	0.10	0.026	11/12/20	11/12/20	2046074	
Hardness, Total (as CaCO3)	Calculated	210	mg/L	6.6		11/18/20	11/18/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		11/18/20	11/18/20	2046073	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		11/19/20	11/20/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	0.86	mg/L	0.40	0.12	11/12/20	11/12/20	2046074	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/12/20	11/12/20	2046074	
pH (Lab)	SM 4500HB	8.2	pH Units			11/11/20	11/11/20	2046073	
Sulfate (SO4)	EPA 300.0	30	mg/L	0.50	0.14	11/12/20	11/12/20	2046074	
Total Filterable Residue/TDS	SM 2540C	450	mg/L	5.0	3.1	11/14/20	11/16/20	2046176	

Metals

Calcium (Ca)	EPA 200.7	57	mg/L	1.0	0.080	11/18/20	11/18/20	2047063	
Magnesium (Mg)	EPA 200.7	18	mg/L	1.0	0.51	11/18/20	11/18/20	2047063	
Potassium (K)	EPA 200.7	9.4	mg/L	1.0	0.18	11/18/20	11/18/20	2047063	
Sodium (Na)	EPA 200.7	70	mg/L	1.0	0.21	11/18/20	11/18/20	2047063	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

WO 20K1074

Clinical Lab of San Bernardino, Inc. Chain of Custody
 21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

0/0/14

Client		Destination Laboratory											Analysis Requested		Turn Around Time (TAT)	
City of Beaumont 550 E. 6th St. Beaumont, CA 92223		<input checked="" type="checkbox"/> Clinical Grand Terrace / ELAP 1088 <input type="checkbox"/> Clinical Lompoc / ELAP 1078 <input type="checkbox"/> Other:											Silica (EPA 200.7) Fluoride (EPA 300.0) Chloride (EPA 300.0) pH (SM 4500H+B) Specific Conductance (SM 2510B) Sulfate (EPA 300.0) Ca, Mg, K, Na (EPA 200.7) Alkalinity (inc. HCO3, CO3, and OH) Ammonia-N (EPA 350.1) Nitrite-N (EPA 300.0) Nitrate-N (EPA 300.0) Total Dissolved Solids (SM 2540C)		Comments 10 10 10 10 10 10 10 10 10 10 10	
Address:		No. of Preserved Cont.											Sample Type		Matrix	
Beaumont, CA 92223		Total Containers ChlorAC ZnC4H6O4 Na2SO3 NaOH HCl HNO3 C6H8O6 NH4Cl Na2S2O3 Unpreserved Sample Type											Matrix HW GW ST1 GW 2B1 GW 2B2 GW 1 SW 3 SW STC 01		Date Time 11/10/20 11:30 13:00 13:30 14:00 15:45 14:45 12:30	Sample Identification Henry Schwankert Santina-1 Santina-2B/1 Santina-2B/2 CC-01 CC-03 STC 01
Client Contact: Thaxton VanBelle		Matrix											Sample Type		Matrix	
Phone No.: 951-769-8520 FAX No.: 951-769-8526		No. of Preserved Cont.											Sample Type		Matrix	
System No.:		No. of Preserved Cont.											Sample Type		Matrix	
Project: Max Benefits - Beaumont GMZ		No. of Preserved Cont.											Sample Type		Matrix	
Sampled By:		No. of Preserved Cont.											Sample Type		Matrix	
Comments:		No. of Preserved Cont.											Sample Type		Matrix	
Email results to: TVanBelle@beaumontca.gov, ckhunter@dudek.com, sstuart@dudek.com		No. of Preserved Cont.											Sample Type		Matrix	
Date Time		No. of Preserved Cont.											Sample Type		Matrix	
11/10/20 11:30		No. of Preserved Cont.											Sample Type		Matrix	
13:00		No. of Preserved Cont.											Sample Type		Matrix	
13:30		No. of Preserved Cont.											Sample Type		Matrix	
14:00		No. of Preserved Cont.											Sample Type		Matrix	
15:45		No. of Preserved Cont.											Sample Type		Matrix	
14:45		No. of Preserved Cont.											Sample Type		Matrix	
12:30		No. of Preserved Cont.											Sample Type		Matrix	
Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other		No. of Preserved Cont.											Sample Type		Matrix	
Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well		No. of Preserved Cont.											Sample Type		Matrix	
Relinquished By (Sign)		Print Name / Company											Received By (Sign)		Print Name / Company	
[Signature]		Mike B / CLD											[Signature]		Mike B / CLD	
[Signature]		11/10/20 16:15											[Signature]		11/10/20 16:15	
[Signature]		1:39											[Signature]		11-11-20 15:24	
[Signature]		11-11-20 15:24											[Signature]		Ceanette Hernandez / CSB	
(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C		No. of Preserved Cont.											Sample Type		Matrix	
Shipped Via: [] Fed Ex [] Golden State Overnight [] UPS [] OnTrac [] USPS [] Other		No. of Preserved Cont.											Sample Type		Matrix	
Condition: [X] On Wet Ice [] On Blu Ice [X] Intact [] Custody Seals		No. of Preserved Cont.											Sample Type		Matrix	
Receipt Comments:		No. of Preserved Cont.											Sample Type		Matrix	
Work Order Logged By: _____		No. of Preserved Cont.											Sample Type		Matrix	
Clinical Lab Receipt Temp.: _____ °C		No. of Preserved Cont.											Sample Type		Matrix	

5.1 °C

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Groundwater
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20K1110
Received: 11/12/20 09:15
Reported: 11/25/20

MCM Poultry Ranch

20K1110-01 (Water)

Sample Date: 11/11/20 9:30

Sampler: C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	270	mg/L	5.0		11/19/20	11/19/20	2046108	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/19/20	11/20/20	2047111	
Bicarbonate (HCO3)	SM 2320 B	330	mg/L	5.0		11/19/20	11/19/20	2046108	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		11/19/20	11/19/20	2046108	
Chloride (Cl)	EPA 300.0	200	mg/L	1.0	0.075	11/12/20	11/12/20	2046117	
Specific Conductance (E.C.)	SM 2510B	1300	umhos/cm	2.0	0.20	11/12/20	11/12/20	2046108	
Fluoride (F)	EPA 300.0	0.39	mg/L	0.10	0.026	11/12/20	11/12/20	2046117	
Hardness, Total (as CaCO3)	Calculated	400	mg/L	6.6		11/18/20	11/18/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		11/19/20	11/19/20	2046108	
Inorganic Nitrogen	Calculated	17	mg/L	1.3		11/19/20	11/20/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	17	mg/L	0.40	0.12	11/12/20	11/12/20	2046117	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/12/20	11/12/20	2046117	
pH (Lab)	SM 4500HB	7.8	pH Units			11/12/20	11/12/20	2046108	
Sulfate (SO4)	EPA 300.0	45	mg/L	0.50	0.14	11/12/20	11/12/20	2046117	
Total Filterable Residue/TDS	SM 2540C	790	mg/L	5.0	3.1	11/14/20	11/16/20	2046176	

Metals

Calcium (Ca)	EPA 200.7	100	mg/L	1.0	0.080	11/18/20	11/18/20	2047063	
Magnesium (Mg)	EPA 200.7	37	mg/L	1.0	0.51	11/18/20	11/18/20	2047063	
Potassium (K)	EPA 200.7	4.3	mg/L	1.0	0.18	11/18/20	11/18/20	2047063	
Silica (SiO2)	EPA 200.7	31	mg/L	0.50	0.018	11/23/20	11/23/20	2048019	
Sodium (Na)	EPA 200.7	95	mg/L	1.0	0.21	11/18/20	11/18/20	2047063	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Groundwater
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20K1110
Received: 11/12/20 09:15
Reported: 11/25/20

Dowling Orchard

20K1110-02 (Water)

Sample Date: 11/11/20 11:30

Sampler: C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	200	mg/L	5.0		11/19/20	11/19/20	2046108	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/19/20	11/20/20	2047111	
Bicarbonate (HCO3)	SM 2320 B	250	mg/L	5.0		11/19/20	11/19/20	2046108	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		11/19/20	11/19/20	2046108	
Chloride (Cl)	EPA 300.0	37	mg/L	1.0	0.075	11/12/20	11/12/20	2046117	
Specific Conductance (E.C.)	SM 2510B	540	umhos/cm	2.0	0.20	11/12/20	11/12/20	2046108	
Fluoride (F)	EPA 300.0	0.40	mg/L	0.10	0.026	11/12/20	11/12/20	2046117	
Hardness, Total (as CaCO3)	Calculated	150	mg/L	6.6		11/18/20	11/18/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		11/19/20	11/19/20	2046108	
Inorganic Nitrogen	Calculated	3.8	mg/L	1.3		11/19/20	11/20/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	3.8	mg/L	0.40	0.12	11/12/20	11/12/20	2046117	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/12/20	11/12/20	2046117	
pH (Lab)	SM 4500HB	8.0	pH Units			11/12/20	11/12/20	2046108	
Sulfate (SO4)	EPA 300.0	17	mg/L	0.50	0.14	11/12/20	11/12/20	2046117	
Total Filterable Residue/TDS	SM 2540C	320	mg/L	5.0	3.1	11/14/20	11/16/20	2046176	

Metals

Calcium (Ca)	EPA 200.7	34	mg/L	1.0	0.080	11/18/20	11/18/20	2047063	
Magnesium (Mg)	EPA 200.7	16	mg/L	1.0	0.51	11/18/20	11/18/20	2047063	
Potassium (K)	EPA 200.7	4.6	mg/L	1.0	0.18	11/18/20	11/18/20	2047063	
Silica (SiO2)	EPA 200.7	18	mg/L	0.50	0.018	11/23/20	11/23/20	2048019	
Sodium (Na)	EPA 200.7	60	mg/L	1.0	0.21	11/18/20	11/18/20	2047063	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Groundwater
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20K1110
Received: 11/12/20 09:15
Reported: 11/25/20

Joe Pistilli

20K1110-03 (Water)

Sample Date: 11/11/20 12:10

Sampler: C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	130	mg/L	5.0		11/19/20	11/19/20	2046108	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/19/20	11/20/20	2047111	
Bicarbonate (HCO3)	SM 2320 B	150	mg/L	5.0		11/19/20	11/19/20	2046108	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		11/19/20	11/19/20	2046108	
Chloride (Cl)	EPA 300.0	16	mg/L	1.0	0.075	11/12/20	11/12/20	2046117	
Specific Conductance (E.C.)	SM 2510B	420	umhos/cm	2.0	0.20	11/12/20	11/12/20	2046108	
Fluoride (F)	EPA 300.0	0.39	mg/L	0.10	0.026	11/12/20	11/12/20	2046117	
Hardness, Total (as CaCO3)	Calculated	150	mg/L	6.6		11/18/20	11/18/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		11/19/20	11/19/20	2046108	
Inorganic Nitrogen	Calculated	13	mg/L	1.3		11/19/20	11/20/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	13	mg/L	0.40	0.12	11/12/20	11/12/20	2046117	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/12/20	11/12/20	2046117	
pH (Lab)	SM 4500HB	7.9	pH Units			11/12/20	11/12/20	2046108	
Sulfate (SO4)	EPA 300.0	11	mg/L	0.50	0.14	11/12/20	11/12/20	2046117	
Total Filterable Residue/TDS	SM 2540C	240	mg/L	5.0	3.1	11/14/20	11/16/20	2046176	

Metals

Calcium (Ca)	EPA 200.7	46	mg/L	1.0	0.080	11/18/20	11/18/20	2047063	
Magnesium (Mg)	EPA 200.7	8.1	mg/L	1.0	0.51	11/18/20	11/18/20	2047063	
Potassium (K)	EPA 200.7	1.6	mg/L	1.0	0.18	11/18/20	11/18/20	2047063	
Silica (SiO2)	EPA 200.7	27	mg/L	0.50	0.018	11/23/20	11/23/20	2048019	
Sodium (Na)	EPA 200.7	24	mg/L	1.0	0.21	11/18/20	11/18/20	2047063	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Groundwater
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20K1110
Received: 11/12/20 09:15
Reported: 11/25/20

George Witter

20K1110-04 (Water)

Sample Date: 11/11/20 13:30

Sampler: C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	160	mg/L	5.0		11/19/20	11/19/20	2046108	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/19/20	11/20/20	2047111	
Bicarbonate (HCO3)	SM 2320 B	200	mg/L	5.0		11/19/20	11/19/20	2046108	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		11/19/20	11/19/20	2046108	
Chloride (Cl)	EPA 300.0	22	mg/L	1.0	0.075	11/12/20	11/12/20	2046117	
Specific Conductance (E.C.)	SM 2510B	400	umhos/cm	2.0	0.20	11/12/20	11/12/20	2046108	
Fluoride (F)	EPA 300.0	0.54	mg/L	0.10	0.026	11/12/20	11/12/20	2046117	
Hardness, Total (as CaCO3)	Calculated	140	mg/L	6.6		11/18/20	11/18/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		11/19/20	11/19/20	2046108	
Inorganic Nitrogen	Calculated	3.7	mg/L	1.3		11/19/20	11/20/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	3.7	mg/L	0.40	0.12	11/12/20	11/12/20	2046117	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/12/20	11/12/20	2046117	
pH (Lab)	SM 4500HB	8.1	pH Units			11/12/20	11/12/20	2046108	
Sulfate (SO4)	EPA 300.0	3.4	mg/L	0.50	0.14	11/12/20	11/12/20	2046117	
Total Filterable Residue/TDS	SM 2540C	270	mg/L	5.0	3.1	11/14/20	11/16/20	2046176	

Metals

Calcium (Ca)	EPA 200.7	39	mg/L	1.0	0.080	11/18/20	11/18/20	2047063	
Magnesium (Mg)	EPA 200.7	10	mg/L	1.0	0.51	11/18/20	11/18/20	2047063	
Potassium (K)	EPA 200.7	1.8	mg/L	1.0	0.18	11/18/20	11/18/20	2047063	
Silica (SiO2)	EPA 200.7	23	mg/L	0.50	0.018	11/23/20	11/23/20	2048019	
Sodium (Na)	EPA 200.7	36	mg/L	1.0	0.21	11/18/20	11/18/20	2047063	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Groundwater
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20K1110
Received: 11/12/20 09:15
Reported: 11/25/20

Singleton Ranch 7

20K1110-05 (Water)

Sample Date: 11/11/20 14:50

Sampler: C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	170	mg/L	5.0		11/19/20	11/19/20	2046108	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/19/20	11/20/20	2047111	
Bicarbonate (HCO3)	SM 2320 B	210	mg/L	5.0		11/19/20	11/19/20	2046108	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		11/19/20	11/19/20	2046108	
Chloride (Cl)	EPA 300.0	11	mg/L	1.0	0.075	11/12/20	11/12/20	2046117	
Specific Conductance (E.C.)	SM 2510B	400	umhos/cm	2.0	0.20	11/12/20	11/12/20	2046108	
Fluoride (F)	EPA 300.0	0.38	mg/L	0.10	0.026	11/12/20	11/12/20	2046117	
Hardness, Total (as CaCO3)	Calculated	190	mg/L	6.6		11/18/20	11/18/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		11/19/20	11/19/20	2046108	
Inorganic Nitrogen	Calculated	2.1	mg/L	1.3		11/19/20	11/20/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	2.1	mg/L	0.40	0.12	11/12/20	11/12/20	2046117	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/12/20	11/12/20	2046117	
pH (Lab)	SM 4500HB	7.8	pH Units			11/12/20	11/12/20	2046108	
Sulfate (SO4)	EPA 300.0	15	mg/L	0.50	0.14	11/12/20	11/12/20	2046117	
Total Filterable Residue/TDS	SM 2540C	250	mg/L	5.0	3.1	11/14/20	11/16/20	2046176	

Metals

Calcium (Ca)	EPA 200.7	48	mg/L	1.0	0.080	11/18/20	11/18/20	2047063	
Magnesium (Mg)	EPA 200.7	17	mg/L	1.0	0.51	11/18/20	11/18/20	2047063	
Potassium (K)	EPA 200.7	1.9	mg/L	1.0	0.18	11/18/20	11/18/20	2047063	
Silica (SiO2)	EPA 200.7	29	mg/L	0.50	0.018	11/23/20	11/23/20	2048019	
Sodium (Na)	EPA 200.7	20	mg/L	1.0	0.21	11/18/20	11/18/20	2047063	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Groundwater
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20K1110
Received: 11/12/20 09:15
Reported: 11/25/20

Oak Valley Office

20K1110-06 (Water)

Sample Date: 11/11/20 15:30

Sampler: C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	150	mg/L	5.0		11/19/20	11/19/20	2046108	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/19/20	11/20/20	2047111	
Bicarbonate (HCO3)	SM 2320 B	190	mg/L	5.0		11/19/20	11/19/20	2046108	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		11/19/20	11/19/20	2046108	
Chloride (Cl)	EPA 300.0	5.4	mg/L	1.0	0.075	11/12/20	11/12/20	2046117	
Specific Conductance (E.C.)	SM 2510B	330	umhos/cm	2.0	0.20	11/12/20	11/12/20	2046108	
Fluoride (F)	EPA 300.0	0.25	mg/L	0.10	0.026	11/12/20	11/12/20	2046117	
Hardness, Total (as CaCO3)	Calculated	120	mg/L	6.6		11/18/20	11/18/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		11/19/20	11/19/20	2046108	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		11/19/20	11/20/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	0.99	mg/L	0.40	0.12	11/12/20	11/12/20	2046117	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/12/20	11/12/20	2046117	
pH (Lab)	SM 4500HB	8.0	pH Units			11/12/20	11/12/20	2046108	
Sulfate (SO4)	EPA 300.0	12	mg/L	0.50	0.14	11/12/20	11/12/20	2046117	
Total Filterable Residue/TDS	SM 2540C	180	mg/L	5.0	3.1	11/14/20	11/16/20	2046176	

Metals

Calcium (Ca)	EPA 200.7	33	mg/L	1.0	0.080	11/18/20	11/18/20	2047063	
Magnesium (Mg)	EPA 200.7	8.3	mg/L	1.0	0.51	11/18/20	11/18/20	2047063	
Potassium (K)	EPA 200.7	2.2	mg/L	1.0	0.18	11/18/20	11/18/20	2047063	
Silica (SiO2)	EPA 200.7	24	mg/L	0.50	0.018	11/23/20	11/23/20	2048019	
Sodium (Na)	EPA 200.7	36	mg/L	1.0	0.21	11/18/20	11/18/20	2047063	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Groundwater
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20K1110
Received: 11/12/20 09:15
Reported: 11/25/20

Cherry Valley Nursery

20K1110-07 (Water)

Sample Date: 11/11/20 16:00

Sampler: C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	160	mg/L	5.0		11/19/20	11/19/20	2046108	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/19/20	11/20/20	2047111	
Bicarbonate (HCO3)	SM 2320 B	190	mg/L	5.0		11/19/20	11/19/20	2046108	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		11/19/20	11/19/20	2046108	
Chloride (Cl)	EPA 300.0	22	mg/L	1.0	0.075	11/12/20	11/12/20	2046117	
Specific Conductance (E.C.)	SM 2510B	440	umhos/cm	2.0	0.20	11/12/20	11/12/20	2046108	
Fluoride (F)	EPA 300.0	0.52	mg/L	0.10	0.026	11/12/20	11/12/20	2046117	
Hardness, Total (as CaCO3)	Calculated	180	mg/L	6.6		11/18/20	11/18/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		11/19/20	11/19/20	2046108	
Inorganic Nitrogen	Calculated	7.2	mg/L	1.3		11/19/20	11/20/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	7.2	mg/L	0.40	0.12	11/12/20	11/12/20	2046117	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/12/20	11/12/20	2046117	
pH (Lab)	SM 4500HB	7.8	pH Units			11/12/20	11/12/20	2046108	
Sulfate (SO4)	EPA 300.0	13	mg/L	0.50	0.14	11/12/20	11/12/20	2046117	
Total Filterable Residue/TDS	SM 2540C	250	mg/L	5.0	3.1	11/16/20	11/18/20	2047013	
Metals									
Calcium (Ca)	EPA 200.7	47	mg/L	1.0	0.080	11/18/20	11/18/20	2047063	
Magnesium (Mg)	EPA 200.7	15	mg/L	1.0	0.51	11/18/20	11/18/20	2047063	
Potassium (K)	EPA 200.7	1.7	mg/L	1.0	0.18	11/18/20	11/18/20	2047063	
Silica (SiO2)	EPA 200.7	30	mg/L	0.50	0.018	11/23/20	11/23/20	2048019	
Sodium (Na)	EPA 200.7	22	mg/L	1.0	0.21	11/18/20	11/18/20	2047063	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Groundwater
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20K1110
Received: 11/12/20 09:15
Reported: 11/25/20

Cherry Valley Mutual Water Co.

20K1110-08 (Water)

Sample Date: 11/11/20 16:30

Sampler: C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	180	mg/L	5.0		11/19/20	11/19/20	2046108	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/19/20	11/20/20	2047111	
Bicarbonate (HCO3)	SM 2320 B	220	mg/L	5.0		11/19/20	11/19/20	2046108	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		11/19/20	11/19/20	2046108	
Chloride (Cl)	EPA 300.0	30	mg/L	1.0	0.075	11/12/20	11/12/20	2046117	
Specific Conductance (E.C.)	SM 2510B	610	umhos/cm	2.0	0.20	11/12/20	11/12/20	2046108	
Fluoride (F)	EPA 300.0	0.57	mg/L	0.10	0.026	11/12/20	11/12/20	2046117	
Hardness, Total (as CaCO3)	Calculated	220	mg/L	6.6		11/18/20	11/18/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		11/19/20	11/19/20	2046108	
Inorganic Nitrogen	Calculated	14	mg/L	1.3		11/19/20	11/20/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	14	mg/L	0.40	0.12	11/12/20	11/12/20	2046117	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/12/20	11/12/20	2046117	
pH (Lab)	SM 4500HB	7.7	pH Units			11/12/20	11/12/20	2046108	
Sulfate (SO4)	EPA 300.0	40	mg/L	0.50	0.14	11/12/20	11/12/20	2046117	
Total Filterable Residue/TDS	SM 2540C	350	mg/L	5.0	3.1	11/16/20	11/18/20	2047013	

Metals

Calcium (Ca)	EPA 200.7	48	mg/L	1.0	0.080	11/18/20	11/18/20	2047063	
Magnesium (Mg)	EPA 200.7	25	mg/L	1.0	0.51	11/18/20	11/18/20	2047063	
Potassium (K)	EPA 200.7	0.98	mg/L	1.0	0.18	11/18/20	11/18/20	2047063	J
Silica (SiO2)	EPA 200.7	41	mg/L	0.50	0.018	11/23/20	11/23/20	2048019	
Sodium (Na)	EPA 200.7	34	mg/L	1.0	0.21	11/18/20	11/18/20	2047063	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

6/10/16
 W²⁰K1110

Clinical Lab of San Bernardino, Inc. Chain of Custody

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client		City of Beaumont		Destination Laboratory										Analysis Requested		Turn Around Time (TAT)																																																																																																																											
Address: 550 E. 6th St. Beaumont, CA 92223		[X] Clinical Grand Terrace / ELAP 1088 [] Clinical Lompoc / ELAP 1078 [] Other:		Total Containers		ChlorAC		ZnC4H6O4		Na2SO3		NaOH		HCl		HNO3		C6H8O6		NH4Cl		Na2S2O3		Unpreserved		Sample Type		Matrix		Container ID		Date	Time	Sample Identification	Reinquinished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company																																																																																																				
Client Contact: Thaxton VanBelle		Phone No.: 951-769-8520 FAX No.: 951-769-8526		No. of Preserved Cont.		X		X		X		X		X		X		X		X		X		X		X		X		X										X		X		X		X		X		X		X		X		X																																																																																			
System No.:		Project: Max Benefits - Beaumont GMZ		Sampled By: <i>Chaxter</i>		Comments: Email results to: TVanBelle@beaumontca.gov, ckhunter@dudek.com, sstuar@dudek.com		MCM		GW		11/12/20		2:30		MCM Pastry Ranch		MCM		GW		11/30		11:30		Dawning Orchard		DO		GW		12/10		12:10		Joe Pittelli		JP		GW		13/30		13:30		George Witter		GW		14/30		14:30		Singleton Ranch 7		S7		GW		15/30		15:30		Oak Valley Office		OVN		GW		16/30		16:30		Cherry Valley Nursery		CV		GW		16/30		16:30		Cherry Valley Nursery		CH		GW		17/30		17:30		Cherry Valley Nursery		CV		GW		18/30		18:30		Cherry Valley Nursery		CV		GW		19/30		19:30		Cherry Valley Nursery		CV		GW		20/30		20:30		Cherry Valley Nursery		CV		GW		21/30		21:30		Cherry Valley Nursery		CV		GW	
City of Beaumont		550 E. 6th St.		Beaumont, CA 92223		Thaxton VanBelle		951-769-8520		951-769-8526		Max Benefits - Beaumont GMZ		Chaxter		TVanBelle@beaumontca.gov, ckhunter@dudek.com, sstuar@dudek.com		MCM		GW		11/12/20		2:30		MCM Pastry Ranch		MCM		GW		11/30		11:30		Dawning Orchard		DO		GW		12/10		12:10		Joe Pittelli		JP		GW		13/30		13:30		George Witter		GW		14/30		14:30		Singleton Ranch 7		S7		GW		15/30		15:30		Oak Valley Office		OVN		GW		16/30		16:30		Cherry Valley Nursery		CV		GW		16/30		16:30		Cherry Valley Nursery		CV		GW		17/30		17:30		Cherry Valley Nursery		CV		GW		18/30		18:30		Cherry Valley Nursery		CV		GW		19/30		19:30		Cherry Valley Nursery		CV		GW		20/30		20:30		Cherry Valley Nursery		CV		GW	

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other
 Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well
 TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Reinquinished By (Sign) Print Name / Company Date / Time Received By (Sign) Print Name / Company
Chaxter *Stuyless / CSB* 11/12/20 2:00 PM *Chaxter* *Stuyless / CSB*
Stuyless / CSB *Stuyless / CSB* 11/12/20 1:45 *Chaxter* *Stuyless / CSB*

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C
 Shipped Via: [] Fed Ex [] Golden State Overnight [] UPS [] OnTrac [] USPS [] Other _____
 Condition: On Wet Ice [] On Blu Ice Intact [] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____
 Receipt Comments: _____ Clinical Lab Receipt Temp.: 6.0 °C

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20K1208
Received: 11/13/20 11:56
Reported: 11/25/20

Morongo A

20K1208-01 (Water)

Sample Date: 11/12/20 8:30

Sampler: C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	120	mg/L	5.0		11/19/20	11/19/20	2046109	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/19/20	11/20/20	2047111	
Bicarbonate (HCO3)	SM 2320 B	120	mg/L	5.0		11/19/20	11/19/20	2046109	
Carbonate (CO3)	SM 2320B	12	mg/L	5.0		11/19/20	11/19/20	2046109	
Chloride (Cl)	EPA 300.0	15	mg/L	1.0	0.075	11/13/20	11/13/20	2046153	
Specific Conductance (E.C.)	SM 2510B	300	umhos/cm	2.0	0.20	11/13/20	11/13/20	2046109	
Fluoride (F)	EPA 300.0	0.79	mg/L	0.10	0.026	11/13/20	11/13/20	2046153	
Hardness, Total (as CaCO3)	Calculated	29	mg/L	6.6		11/18/20	11/18/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		11/19/20	11/19/20	2046109	
Inorganic Nitrogen	Calculated	1.6	mg/L	1.3		11/19/20	11/20/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	1.6	mg/L	0.40	0.12	11/13/20	11/13/20	2046153	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/13/20	11/13/20	2046153	
pH (Lab)	SM 4500HB	8.9	pH Units			11/13/20	11/13/20	2046109	
Sulfate (SO4)	EPA 300.0	4.9	mg/L	0.50	0.14	11/13/20	11/13/20	2046153	
Total Filterable Residue/TDS	SM 2540C	170	mg/L	5.0	3.1	11/16/20	11/18/20	2047013	

Metals

Calcium (Ca)	EPA 200.7	7.9	mg/L	1.0	0.080	11/18/20	11/18/20	2047063	
Magnesium (Mg)	EPA 200.7	2.3	mg/L	1.0	0.51	11/18/20	11/18/20	2047063	
Potassium (K)	EPA 200.7	0.90	mg/L	1.0	0.18	11/18/20	11/18/20	2047063	J
Silica (SiO2)	EPA 200.7	18	mg/L	0.50	0.018	11/23/20	11/23/20	2048019	
Sodium (Na)	EPA 200.7	57	mg/L	1.0	0.21	11/18/20	11/18/20	2047063	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20K1208
Received: 11/13/20 11:56
Reported: 11/25/20

Morongo D

20K1208-02 (Water)

Sample Date: 11/12/20 9:00

Sampler: C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	130	mg/L	5.0		11/19/20	11/19/20	2046109	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/19/20	11/20/20	2047111	
Bicarbonate (HCO3)	SM 2320 B	160	mg/L	5.0		11/19/20	11/19/20	2046109	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		11/19/20	11/19/20	2046109	
Chloride (Cl)	EPA 300.0	12	mg/L	1.0	0.075	11/13/20	11/13/20	2046153	
Specific Conductance (E.C.)	SM 2510B	320	umhos/cm	2.0	0.20	11/13/20	11/13/20	2046109	
Fluoride (F)	EPA 300.0	0.58	mg/L	0.10	0.026	11/13/20	11/13/20	2046153	
Hardness, Total (as CaCO3)	Calculated	84	mg/L	6.6		11/23/20	11/23/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		11/19/20	11/19/20	2046109	
Inorganic Nitrogen	Calculated	1.7	mg/L	1.3		11/19/20	11/20/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	1.7	mg/L	0.40	0.12	11/13/20	11/13/20	2046153	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/13/20	11/13/20	2046153	
pH (Lab)	SM 4500HB	8.0	pH Units			11/13/20	11/13/20	2046109	
Sulfate (SO4)	EPA 300.0	7.2	mg/L	0.50	0.14	11/13/20	11/13/20	2046153	
Total Filterable Residue/TDS	SM 2540C	180	mg/L	5.0	3.1	11/16/20	11/18/20	2047013	

Metals

Calcium (Ca)	EPA 200.7	21	mg/L	1.0	0.080	11/23/20	11/23/20	2048023	
Magnesium (Mg)	EPA 200.7	7.6	mg/L	1.0	0.51	11/23/20	11/23/20	2048023	
Potassium (K)	EPA 200.7	1.5	mg/L	1.0	0.18	11/23/20	11/23/20	2048023	
Silica (SiO2)	EPA 200.7	25	mg/L	0.50	0.018	11/23/20	11/23/20	2048019	
Sodium (Na)	EPA 200.7	40	mg/L	1.0	0.21	11/23/20	11/23/20	2048023	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20K1208
Received: 11/13/20 11:56
Reported: 11/25/20

Desert Lawn

20K1208-03 (Water)

Sample Date: 11/12/20 9:30

Sampler: C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	180	mg/L	5.0		11/19/20	11/19/20	2046109	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/19/20	11/20/20	2047111	
Bicarbonate (HCO3)	SM 2320 B	220	mg/L	5.0		11/19/20	11/19/20	2046109	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		11/19/20	11/19/20	2046109	
Chloride (Cl)	EPA 300.0	7.2	mg/L	1.0	0.075	11/13/20	11/13/20	2046153	
Specific Conductance (E.C.)	SM 2510B	380	umhos/cm	2.0	0.20	11/13/20	11/13/20	2046109	
Fluoride (F)	EPA 300.0	0.47	mg/L	0.10	0.026	11/13/20	11/13/20	2046153	
Hardness, Total (as CaCO3)	Calculated	160	mg/L	6.6		11/23/20	11/23/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		11/19/20	11/19/20	2046109	
Inorganic Nitrogen	Calculated	1.4	mg/L	1.3		11/19/20	11/20/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	1.4	mg/L	0.40	0.12	11/13/20	11/13/20	2046153	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/13/20	11/13/20	2046153	
pH (Lab)	SM 4500HB	7.7	pH Units			11/13/20	11/13/20	2046109	
Sulfate (SO4)	EPA 300.0	12	mg/L	0.50	0.14	11/13/20	11/13/20	2046153	
Total Filterable Residue/TDS	SM 2540C	220	mg/L	5.0	3.1	11/16/20	11/18/20	2047013	

Metals

Calcium (Ca)	EPA 200.7	41	mg/L	1.0	0.080	11/23/20	11/23/20	2048023	
Magnesium (Mg)	EPA 200.7	15	mg/L	1.0	0.51	11/23/20	11/23/20	2048023	
Potassium (K)	EPA 200.7	1.8	mg/L	1.0	0.18	11/23/20	11/23/20	2048023	
Silica (SiO2)	EPA 200.7	30	mg/L	0.50	0.018	11/23/20	11/23/20	2048019	
Sodium (Na)	EPA 200.7	18	mg/L	1.0	0.21	11/23/20	11/23/20	2048023	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20K1208
Received: 11/13/20 11:56
Reported: 11/25/20

Larry Britton

20K1208-04 (Water)

Sample Date: 11/12/20 9:40

Sampler: C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	170	mg/L	5.0		11/19/20	11/19/20	2046109	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/23/20	11/24/20	2048022	
Bicarbonate (HCO3)	SM 2320 B	210	mg/L	5.0		11/19/20	11/19/20	2046109	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		11/19/20	11/19/20	2046109	
Chloride (Cl)	EPA 300.0	7.1	mg/L	1.0	0.075	11/13/20	11/13/20	2046153	
Specific Conductance (E.C.)	SM 2510B	370	umhos/cm	2.0	0.20	11/13/20	11/13/20	2046109	
Fluoride (F)	EPA 300.0	0.40	mg/L	0.10	0.026	11/13/20	11/13/20	2046153	
Hardness, Total (as CaCO3)	Calculated	150	mg/L	6.6		11/18/20	11/18/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		11/19/20	11/19/20	2046109	
Inorganic Nitrogen	Calculated	1.8	mg/L	1.3		11/23/20	11/24/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	1.8	mg/L	0.40	0.12	11/13/20	11/13/20	2046153	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/13/20	11/13/20	2046153	
pH (Lab)	SM 4500HB	7.9	pH Units			11/13/20	11/13/20	2046109	
Sulfate (SO4)	EPA 300.0	9.8	mg/L	0.50	0.14	11/13/20	11/13/20	2046153	
Total Filterable Residue/TDS	SM 2540C	220	mg/L	5.0	3.1	11/16/20	11/18/20	2047013	

Metals

Calcium (Ca)	EPA 200.7	36	mg/L	1.0	0.080	11/18/20	11/18/20	2047063	
Magnesium (Mg)	EPA 200.7	15	mg/L	1.0	0.51	11/18/20	11/18/20	2047063	
Potassium (K)	EPA 200.7	1.6	mg/L	1.0	0.18	11/18/20	11/18/20	2047063	
Silica (SiO2)	EPA 200.7	32	mg/L	0.50	0.018	11/23/20	11/23/20	2048019	
Sodium (Na)	EPA 200.7	22	mg/L	1.0	0.21	11/18/20	11/18/20	2047063	

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Item 5.

Beaumont, City of
550 East 6th Street
Beaumont CA, 92223

Project: Maximum Benefit-Surface Water
Sub Project: Beaumont GMZ
Project Manager: Thaxton Van Belle

Work Order: 20K1208
Received: 11/13/20 11:56
Reported: 11/25/20

Beaumont Cemetery

20K1208-05 (Water)

Sample Date: 11/12/20 10:50

Sampler: C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	170	mg/L	5.0		11/19/20	11/19/20	2046109	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/23/20	11/24/20	2048022	
Bicarbonate (HCO3)	SM 2320 B	210	mg/L	5.0		11/19/20	11/19/20	2046109	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		11/19/20	11/19/20	2046109	
Chloride (Cl)	EPA 300.0	15	mg/L	1.0	0.075	11/13/20	11/13/20	2046153	
Specific Conductance (E.C.)	SM 2510B	420	umhos/cm	2.0	0.20	11/13/20	11/13/20	2046109	
Fluoride (F)	EPA 300.0	0.50	mg/L	0.10	0.026	11/13/20	11/13/20	2046153	
Hardness, Total (as CaCO3)	Calculated	160	mg/L	6.6		11/18/20	11/18/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		11/19/20	11/19/20	2046109	
Inorganic Nitrogen	Calculated	5.0	mg/L	1.3		11/23/20	11/24/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	5.0	mg/L	0.40	0.12	11/13/20	11/13/20	2046153	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/13/20	11/13/20	2046153	
pH (Lab)	SM 4500HB	7.7	pH Units			11/13/20	11/13/20	2046109	
Sulfate (SO4)	EPA 300.0	9.2	mg/L	0.50	0.14	11/13/20	11/13/20	2046153	
Total Filterable Residue/TDS	SM 2540C	240	mg/L	5.0	3.1	11/16/20	11/18/20	2047013	

Metals

Calcium (Ca)	EPA 200.7	43	mg/L	1.0	0.080	11/18/20	11/18/20	2047063	
Magnesium (Mg)	EPA 200.7	12	mg/L	1.0	0.51	11/18/20	11/18/20	2047063	
Potassium (K)	EPA 200.7	2.6	mg/L	1.0	0.18	11/18/20	11/18/20	2047063	
Silica (SiO2)	EPA 200.7	30	mg/L	0.50	0.018	11/23/20	11/23/20	2048019	
Sodium (Na)	EPA 200.7	25	mg/L	1.0	0.21	11/18/20	11/18/20	2047063	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

WO 20K1208

Clinical Lab of San Bernardino, Inc. Chain of Custody
 21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client		City of Beaumont			Destination Laboratory					
Address: 550 E. 6th St. Beaumont, CA 92223		[X] Clinical Grand Terrace / ELAP 1088 [] Clinical Lompoc / ELAP 1678 [] Other:								
Client Contact: Thaxton VanBelle		No. of Preserved Cont.								
Phone No.: 951-769-8520 FAX No.: 951-769-8526		Total Containers								
System No.:		ChlorAC								
Project: Max Benefits - Beaumont GMZ		ZnC4H6O4								
Sampled By: [Signature]		Na2SO3								
Comments: [Signature]		NaOH								
Email results to: TVanBelle@beaumontca.gov, ckhunter@dudek.com, sstuart@dudek.com		HCl								
Date		HNO3								
Time		C6H8O6								
Sample Identification		NH4Cl								
8:30		Na2S2O3								
9:00		Unpreserved								
9:30		Sample Type								
9:40		Matrix								
10:50		Container ID								
		MA GW								
		MD GW								
		DL GW								
		LB GW								
		B GW								
		GW								
		GW								
		GW								
Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well										
Relinquished By (Sign)				Print Name / Company			Date / Time		Received By (Sign)	Print Name / Company
[Signature]				Chris Martinez			11/12/20 12:00		[Signature]	Chris Martinez
[Signature]				Chris Martinez			11/12/20 11:45		[Signature]	Chris Martinez
							11-13-20 11:50		[Signature]	Jeannette Hernandez/CISB
(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C Shipped Via: [] Fed Ex [] Golden State Overnight [] UPS [] OnTrac [] USPS [] Other Condition: <input checked="" type="checkbox"/> On Wet Ice [] On Blu Ice <input checked="" type="checkbox"/> Intact [] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____ Receipt Comments: _____ Clinical Lab Receipt Temp.: 59 °C										

APPENDIX P

**Historical Total Dissolved Solids Concentration of Recycled
Water Discharged to Cooper's Creek at DP-001 in the
Beaumont Groundwater Management Zone**

**Appendix P. Historical Total Dissolved Solids Concentration of Recycled Water Discharged to Cooper's Creek at D
001 in the Beaumont Groundwater Management Zone**

Item 5.

Sample Date	Total Dissolved Solids (mg/L)	Total Monthly Discharge Volume (MG)	TDS * Volume	Volume-Weighted Annual Average (mg/L)	10-Year Running Volume-Weighted Average (mg/L)
1/31/2002	380				
2/28/2002	400				
3/31/2002	430				
4/30/2002	410				
5/31/2002	420				
6/30/2002	410				
7/31/2002	380				
8/31/2002	380				
9/30/2002	390				
10/31/2002	430				
11/30/2002	480				
12/31/2002	440				
1/31/2003	440				
2/28/2003	420				
3/31/2003	420				
4/30/2003	440				
5/31/2003	430				
6/30/2003	410				
7/31/2003	420				
8/31/2003	390				
9/30/2003	440				
10/31/2003	430				
11/30/2003	420				
12/31/2003	400				
1/31/2004	410				
2/29/2004	430				
3/31/2004	410				
4/30/2004	410				
5/31/2004	320				
6/30/2004	390				
7/31/2004	360				
8/31/2004	330				
9/30/2004	380				
10/31/2004	410				
11/30/2004	390				
12/31/2004	420				
1/31/2005	380				
2/28/2005	500				
3/31/2005	520				
4/30/2005	430				
5/31/2005	440				
6/30/2005	420				
7/31/2005	430				
8/31/2005	440				
9/30/2005	420				
10/31/2005	420				
11/30/2005	380				

Appendix P. Historical Total Dissolved Solids Concentration of Recycled Water Discharged to Cooper's Creek at D 001 in the Beaumont Groundwater Management Zone

Item 5.

Sample Date	Total Dissolved Solids (mg/L)	Total Monthly Discharge Volume (MG)	TDS * Volume	Volume-Weighted Annual Average (mg/L)	10-Year Running Volume-Weighted Average (mg/L)
12/31/2005	480				
1/31/2006	460	53.64	24675.78		
2/28/2006	350	46.91	16418.15		
3/31/2006	370	56.43	20879.84		
4/30/2006	420	53.44	22446.06		
5/31/2006	420	53.78	22588.44		
6/30/2006	440	50.76	22334.40		
7/31/2006	420	44.78	18806.76		
8/31/2006	410	70.44	28880.81		
9/30/2006	420	68.52	28778.40		
10/31/2006	390	78.56	30639.18		
11/30/2006	420	76.06	31943.94		
12/31/2006	470	78.38	36839.07	417	
1/31/2007	420	80.50	33811.68		
2/28/2007	390	72.61	28316.34		
3/31/2007	400	79.82	31927.20		
4/30/2007	390	78.38	30569.76		
5/31/2007	390	80.91	31556.46		
6/30/2007	390	77.03	30039.75		
7/31/2007	410	78.37	32132.52		
8/31/2007	460	83.32	38324.90		
9/30/2007	370	81.77	30253.79		
10/31/2007	430	82.57	35504.24		
11/30/2007	340	74.14	25207.26		
12/31/2007	390	78.82	30740.58	399	
1/31/2008	400	79.79	31914.00		
2/29/2008	390	74.79	29168.88		
3/31/2008	400	76.52	30608.00		
4/30/2008	410	78.43	32157.12		
5/31/2008	480	77.40	37149.60		
6/30/2008	410	77.19	31647.08		
7/31/2008	400	79.06	31624.80		
8/31/2008	400	73.78	29511.20		
9/30/2008	410	78.11	32024.69		
10/31/2008	260	77.76	20217.34		
11/30/2008	320	76.94	24621.44		
12/31/2008	380	82.24	31249.30	388	
1/31/2009	400	78.22	31288.00		
2/28/2009	350	74.47	26064.50		
3/31/2009	410	80.20	32880.77		
4/30/2009	420	74.80	31417.68		
5/31/2009	390	76.95	30011.67		
6/30/2009	380	74.42	28278.84		
7/31/2009	360	75.57	27204.12		
8/31/2009	440	77.08	33913.88		
9/30/2009	390	80.08	31231.59		
10/31/2009	480	81.06	38907.36		

**Appendix P. Historical Total Dissolved Solids Concentration of Recycled Water Discharged to Cooper's Creek at D
001 in the Beaumont Groundwater Management Zone**

Item 5.

Sample Date	Total Dissolved Solids (mg/L)	Total Monthly Discharge Volume (MG)	TDS * Volume	Volume-Weighted Annual Average (mg/L)	10-Year Running Volume-Weighted Average (mg/L)
11/30/2009		78.93	0.00		
12/31/2009	440	83.39	36692.48	406	
1/31/2010	400	86.31	34525.20		
2/28/2010	380	75.61	28731.80		
3/31/2010	390	80.29	31313.49		
4/30/2010	410	57.85	23718.50		
5/31/2010	400	62.06	24824.40		
6/30/2010	390	56.37	21984.69		
7/31/2010	380	60.01	22803.80		
8/31/2010	390	60.89	23745.15		
9/30/2010	400	58.16	23264.00		
10/31/2010	350	61.93	21674.10		
11/30/2010	380	61.30	23293.24		
12/31/2010	370	68.71	25422.33	387	
1/31/2011	410	64.09	26278.54		
2/28/2011	370	59.42	21986.51		
3/31/2011	380	63.77	24230.70		
4/30/2011	370	60.37	22338.38		
5/31/2011	430	63.27	27207.82		
6/30/2011	400	67.50	27001.96		
7/31/2011	380	69.12	26265.22		
8/31/2011	420	66.10	27763.68		
9/30/2011	430	62.86	27028.51		
10/31/2011	430	64.50	27733.28		
11/30/2011	410	65.57	26885.34		
12/31/2011	460	66.02	30367.36	408	
1/31/2012	360	67.85	24427.44		
2/29/2012	360	62.98	22671.36		
3/31/2012	480	68.02	32649.60		
4/30/2012	400	66.93	26770.00		
5/31/2012	410	70.87	29055.88		
6/30/2012	370	67.30	24900.63		
7/31/2012	400	70.61	28244.40		
8/31/2012	380	70.91	26944.28		
9/30/2012	460	67.29	30952.94		
10/31/2012	380	70.36	26736.04		
11/30/2012	390	71.42	27852.24		
12/31/2012	410	72.25	29621.68	400	
1/31/2013	440	70.82	31160.36		
2/28/2013	410	64.32	26369.56		
3/31/2013	420	75.04	31517.64		
4/30/2013	420	71.53	30042.18		
5/31/2013	410	78.43	32155.48		
6/30/2013	420	70.26	29507.10		
7/31/2013	420	70.12	29449.56		
8/31/2013	400	68.66	27462.40		
9/30/2013	430	77.00	33107.85		

Appendix P. Historical Total Dissolved Solids Concentration of Recycled Water Discharged to Cooper's Creek at D 001 in the Beaumont Groundwater Management Zone

Item 5.

Sample Date	Total Dissolved Solids (mg/L)	Total Monthly Discharge Volume (MG)	TDS * Volume	Volume-Weighted Annual Average (mg/L)	10-Year Running Volume-Weighted Average (mg/L)
10/31/2013	410	66.44	27239.99		
11/30/2013	440	66.16	29111.72		
12/31/2013	400	77.64	31056.00	418	
1/31/2014	440	81.21	35731.52		
2/28/2014	440	62.03	27292.32		
3/31/2014	390	76.00	29640.39		
4/30/2014	410	74.45	30524.09		
5/31/2014	430	81.04	34846.34		
6/30/2014	420	78.51	32973.36		
7/31/2014	420	80.75	33913.74		
8/31/2014	420	84.80	35615.16		
9/30/2014	400	85.94	34376.00		
10/31/2014	400	84.94	33976.80		
11/30/2014	370	89.57	33140.90		
12/31/2014	400	96.65	38659.60	411	
1/31/2015	450	89.03	40064.85		
2/28/2015	440	82.44	36274.92		
3/31/2015	450	92.14	41464.35		
4/30/2015	410	87.03	35680.25		
5/31/2015	420	90.62	38060.82		
6/30/2015	430	89.27	38386.53		
7/31/2015	440	92.77	40817.04		
8/31/2015	420	96.04	40337.64		
9/30/2015	450	92.30	41533.65		
10/31/2015	450	94.10	42346.80		
11/30/2015	440	91.69	40345.36		
12/31/2015	480	96.39	46264.80	440	408
1/31/2016	460	97.59	44892.78		
2/29/2016	450	88.88	39993.75		
3/31/2016	460	93.39	42958.48		
4/30/2016	460	92.01	42323.22		
5/31/2016	480	96.43	46288.32		
6/30/2016	430	94.45	40612.21		
7/31/2016	420	97.78	41067.60		
8/31/2016	400	100.98	40390.40		
9/30/2016	420	96.55	40549.74		
10/31/2016	440	98.45	43319.32		
11/30/2016	430	95.80	41193.57		
12/31/2016	460	102.23	47026.26	442	412
1/31/2017	460	103.99	47835.40		
2/28/2017	500	111.23	55616.00		
3/31/2017	440	98.42	43305.24		
4/30/2017	400	100.54	40216.00		
5/31/2017	420	99.94	41975.22		
6/30/2017	420	95.28	40015.50		
7/31/2017	400	99.58	39833.60		
8/31/2017	420	102.68	43125.18		

Appendix P. Historical Total Dissolved Solids Concentration of Recycled Water Discharged to Cooper's Creek at D 001 in the Beaumont Groundwater Management Zone

Item 5.

Sample Date	Total Dissolved Solids (mg/L)	Total Monthly Discharge Volume (MG)	TDS * Volume	Volume-Weighted Annual Average (mg/L)	10-Year Running Volume-Weighted Average (mg/L)
9/30/2017	400	99.65	39861.20		
10/31/2017	410	101.03	41420.25		
11/30/2017	410	98.77	40495.70		
12/31/2017	450	102.55	46147.50	428	415
1/31/2018	460	104.41	48026.30		
2/28/2018	470	91.80	43145.53		
3/31/2018	470	103.09	48451.36		
4/30/2018	480	99.73	47868.48		
5/31/2018	430	102.44	44050.92		
6/30/2018	520	99.19	51579.32		
7/31/2018	470	105.75	49703.91		
8/31/2018	440	108.87	47901.04		
9/30/2018	420	103.98	43670.34		
10/31/2018	440	106.00	46640.88		
11/30/2018	460	105.29	48433.86		
12/31/2018	390	107.60	41962.83	453	423
1/31/2019	430	111.78	48065.40		
2/28/2019	430	100.99	43425.27		
3/31/2019	480	112.81	54149.76		
4/30/2019	440	109.87	48344.12		
5/31/2019	460	114.32	52589.04		
6/30/2019	470	108.34	50921.21		
7/31/2019	460	111.32	51208.58		
8/31/2019	440	115.42	50784.80		
9/30/2019	450	110.82	49869.45		
10/31/2019	460	112.92	51941.82		
11/30/2019	460	113.10	52025.54		
12/31/2019	460	111.51	51295.52	454	428
1/31/2020	560	117.02	65530.08		
2/29/2020	450	107.80	48511.80		
3/31/2020	460	121.27	55783.28		
4/30/2020	440	118.71	52231.08		
5/31/2020	440	118.64	52200.28		
6/30/2020	440	114.97	50588.12		
7/31/2020	440	118.11	51969.28		
8/31/2020	460	126.79	58325.24		
9/30/2020	440	121.48	53449.88		
10/31/2020	420	120.27	50512.14		
11/30/2020	410	109.75	44997.09		
12/31/2020	380	107.36	40795.28	446	433

APPENDIX Q

**Historical Nitrate (as Nitrogen) Concentration of Recycled
Water Discharged at Cooper's Creek at DP-001 in the
Beaumont Groundwater Management Zone**

Appendix Q. Historical Nitrate (as Nitrogen) Concentration of Recycled Water Discharged to Cooper's Creek (DP 001) in the Beaumont Groundwater Management Zone

Item 5.

Sample Date	Nitrate-Nitrogen (mg/L)	Total Monthly Discharge Volume (MG)	Nitrate-N * Volume	Volume-Weighted Annual Average (mg/L)	10-Year Running Volume-Weighted Average (mg/L)
1/31/2006		53.64			
2/28/2006		46.91			
3/31/2006		56.43			
4/30/2006		53.44			
5/31/2006		53.78			
6/30/2006		50.76			
7/31/2006		44.78			
8/31/2006		70.44			
9/30/2006		68.52			
10/31/2006		78.56			
11/30/2006		76.06			
12/31/2006		78.38			
1/31/2007	0.72	80.50	57.96		
2/28/2007	0.72	72.61	52.28		
3/31/2007	0.9	79.82	71.84		
4/30/2007	0.52	78.38	40.76		
5/31/2007	0.54	80.91	43.69		
6/30/2007	0.23	77.03	17.72		
7/31/2007	0.45	78.37	35.27		
8/31/2007	0.25	83.32	20.83		
9/30/2007	0.45	81.77	36.80		
10/31/2007	1.1	82.57	90.82		
11/30/2007	0.29	74.14	21.50		
12/31/2007	0.52	78.82	40.99	0.56	
1/31/2008	0.52	79.79	41.49		
2/29/2008	0.72	74.79	53.85		
3/31/2008	0.54	76.52	41.32		
4/30/2008	0.77	78.43	60.39		
5/31/2008	1.1	77.40	85.13		
6/30/2008	1.5	77.19	115.78		
7/31/2008	1.1	79.06	86.97		
8/31/2008	1.7	73.78	125.42		
9/30/2008	2	78.11	156.22		
10/31/2008	1.8	77.76	139.97		
11/30/2008	1.4	76.94	107.72		
12/31/2008	2.5	82.24	205.59	1.31	
1/31/2009	2.4	78.22	187.73		
2/28/2009	3	74.47	223.41		
3/31/2009	0.79	80.20	63.36		
4/30/2009	2.1	74.80	157.09		
5/31/2009	0.97	76.95	74.64		
6/30/2009	2.5	74.42	186.05		
7/31/2009	1.1	75.57	83.12		
8/31/2009	1	77.08	77.08		
9/30/2009	1.5	80.08	120.12		
10/31/2009	2	81.06	162.11		
11/30/2009	4.4	78.93	347.30		
12/31/2009	4.4	83.39	366.92	2.19	
1/31/2010	8.6	86.31	742.29		
2/28/2010	2.9	75.61	219.27		
3/31/2010	3.4	80.29	272.99		
4/30/2010	5.4	57.85	312.39		
5/31/2010	6.7	62.06	415.81		
6/30/2010	0.84	56.37	47.35		
7/31/2010	1.4	60.01	84.01		
8/31/2010	1.1	60.89	66.97		
9/30/2010	3.5	58.16	203.56		
10/31/2010	0.96	61.93	59.45		
11/30/2010	1	61.30	61.30		
12/31/2010	2.3	68.71	158.03	3.35	
1/31/2011	1.6	64.09	102.55		
2/28/2011	1.6	59.42	95.08		

Appendix Q. Historical Nitrate (as Nitrogen) Concentration of Recycled Water Discharged to Cooper's Creek (DP 001) in the Beaumont Groundwater Management Zone

Item 5.

Sample Date	Nitrate-Nitrogen (mg/L)	Total Monthly Discharge Volume (MG)	Nitrate-N * Volume	Volume-Weighted Annual Average (mg/L)	10-Year Running Volume-Weighted Average (mg/L)
3/31/2011	1.1	63.77	70.14		
4/30/2011	0.97	60.37	58.56		
5/31/2011	2	63.27	126.55		
6/30/2011	4	67.50	270.02		
7/31/2011	0.47	69.12	32.49		
8/31/2011		66.10	0.00		
9/30/2011		62.86	0.00		
10/31/2011		64.50	0.00		
11/30/2011		65.57	0.00		
12/31/2011		66.02	0.00	1.69	
1/31/2012	0.79	67.85	53.60		
2/29/2012	1.8	62.98	113.36		
3/31/2012	0.86	68.02	58.50		
4/30/2012	1.8	66.93	120.47		
5/31/2012	2	70.87	141.74		
6/30/2012	2.4	67.30	161.52		
7/31/2012	7.9	70.61	557.83		
8/31/2012	2	70.91	141.81		
9/30/2012	2.5	67.29	168.22		
10/31/2012		70.36	0.00		
11/30/2012		71.42	0.00		
12/31/2012		72.25	0.00	2.48	
1/31/2013	4.7	70.82	332.85		
2/28/2013	2.2	64.32	141.50		
3/31/2013	5.2	75.04	390.22		
4/30/2013	2.2	71.53	157.36		
5/31/2013	3.1	78.43	243.13		
6/30/2013	2	70.26	140.51		
7/31/2013	1.6	70.12	112.19		
8/31/2013	2	68.66	137.31		
9/30/2013	1.6	77.00	123.19		
10/31/2013	3.2	66.44	212.60		
11/30/2013	8.1	66.16	535.92		
12/31/2013	1.8	77.64	139.75	3.11	
1/31/2014	2.3	81.21	186.78		
2/28/2014	3.7	62.03	229.50		
3/31/2014	2.6	76.00	197.60		
4/30/2014	1.7	74.45	126.56		
5/31/2014	1.2	81.04	97.25		
6/30/2014	0.55	78.51	43.18		
7/31/2014	2.7	80.75	218.02		
8/31/2014	1.5	84.80	127.20		
9/30/2014	1.4	85.94	120.32		
10/31/2014	1.8	84.94	152.90		
11/30/2014	4.1	89.57	367.24		
12/31/2014	1.6	96.65	154.64	2.07	
1/31/2015	5.1	89.03	454.07		
2/28/2015	6.3	82.44	519.39		
3/31/2015	5.5	92.14	506.79		
4/30/2015	2.3	87.03	200.16		
5/31/2015	2.9	90.62	262.80		
6/30/2015	2	89.27	178.54		
7/31/2015	5.8	92.77	538.04		
8/31/2015	5.6	96.04	537.84		
9/30/2015	3.8	92.30	350.73		
10/31/2015	9.3	94.10	875.17		
11/30/2015	12	91.69	1100.33		
12/31/2015	14	96.39	1349.39	6.28	2.67
1/31/2016	8.7	97.59	849.06		
2/29/2016	5.4	88.88	479.93		
3/31/2016	6.6	93.39	616.36		
4/30/2016	7.6	92.01	699.25		

Appendix Q. Historical Nitrate (as Nitrogen) Concentration of Recycled Water Discharged to Cooper's Creek (DP 001) in the Beaumont Groundwater Management Zone

Item 5.

Sample Date	Nitrate-Nitrogen (mg/L)	Total Monthly Discharge Volume (MG)	Nitrate-N * Volume	Volume-Weighted Annual Average (mg/L)	10-Year Running Volume-Weighted Average (mg/L)
5/31/2016	11	96.43	1060.77		
6/30/2016	1.4	94.45	132.23		
7/31/2016	1.4	97.78	136.89		
8/31/2016	0.3	100.98	30.29		
9/30/2016	2.3	96.55	222.06		
10/31/2016	2.7	98.45	265.82		
11/30/2016	10	95.80	957.99		
12/31/2016	17	102.23	1737.93	6.23	3.14
1/31/2017	2.2	103.99	228.78		
2/28/2017	0.71	111.23	78.97		
3/31/2017	1.4	98.42	137.79		
4/30/2017	0.77	100.54	77.42		
5/31/2017	0.28	99.94	27.98		
6/30/2017	0.3	95.28	28.58		
7/31/2017	0.46	99.58	45.81		
8/31/2017	0.34	102.68	34.91		
9/30/2017	0.27	99.65	26.91		
10/31/2017	1.7	101.03	171.74		
11/30/2017	2.7	98.77	266.68		
12/31/2017	2.2	102.55	225.61	1.11	3.14
1/31/2018	0.34	104.41	35.50		
2/28/2018	0.51	91.80	46.82		
3/31/2018	0.87	103.09	89.69		
4/30/2018	1.8	99.73	179.51		
5/31/2018	2.6	102.44	266.35		
6/30/2018	3.5	99.19	347.17		
7/31/2018	2.4	105.75	253.81		
8/31/2018	2.5	108.87	272.17		
9/30/2018	3.7	103.98	384.71		
10/31/2018	8	106.00	848.02		
11/30/2018	17	105.29	1789.95		
12/31/2018	4.9	107.60	527.23	4.07	3.45
1/31/2019		111.78	0.00		
2/28/2019	8.8	100.99	888.70		
3/31/2019	13	112.81	1466.56		
4/30/2019	2.2	109.87	241.72		
5/31/2019	3.8	114.32	434.43		
6/30/2019	3.1	108.34	335.86		
7/31/2019	2.1	111.32	233.78		
8/31/2019	1.8	115.42	207.76		
9/30/2019	1.8	110.82	199.48		
10/31/2019	2	112.92	225.83		
11/30/2019	9	113.10	1017.89		
12/31/2019	5.8	111.51	646.77	4.42	3.74
1/31/2020	2.4	117.018	280.84		
2/29/2020	1.6	107.804	172.49		
3/31/2020	3.6	121.268	436.56		
4/30/2020	8.3	118.707	985.27		
5/31/2020	3.3	118.637	391.50		
6/30/2020	2.1	114.973	241.44		
7/31/2020	3.6	118.112	425.20		
8/31/2020	1.0	126.794	126.79		
9/30/2020	5.5	121.477	668.12		
10/31/2020	4.4	120.267	529.17		
11/30/2020	4.9	109.749	537.77		
12/31/2020	3.1	107.356	332.80	3.66	3.63

APPENDIX R

**Historical Precipitation at NOAA Climatic Stations
in Beaumont, Redlands and Yucaipa, California**

Appendix R. Historical Rainfall Data at NOAA Climatic Station US1CARV0018 - Beaumont California

Item 5.

Water Year Beginning	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
10/1/2008						0.07	0.08	0.00	0.19	0.00	0.00	0.00	0.34
10/1/2009	0.03	0.07	0.36	6.35	3.14	0.96	1.59	0.06	0.00	0.00	0.00	0.07	12.63
10/1/2010	0.95	1.84	11.03	1.26	1.83	1.93	0.10	0.15	0.00	0.04	0.28	0.00	19.41
10/1/2011	0.77	1.17	0.42	0.82	1.68	2.16	0.77	0.00	0.00	0.04	0.72	0.02	8.57
10/1/2012	0.00	0.95	2.80	1.56	1.38	1.49	0.00	0.62	0.00	0.09	0.23	0.11	9.23
10/1/2013	0.05	0.83	0.22	0.38	0.83	2.92	1.13	0.03	0.00	0.00	0.60	0.00	6.99
10/1/2014	0.00	0.11	5.00	0.56	1.08	0.68	0.86	1.23	0.02	2.48	0.05	1.16	13.23
10/1/2015	0.73	0.55	1.35	0.14	0.75	1.24	2.06	0.77	0.00	0.00	0.00	0.05	7.64
10/1/2016	0.39	2.01	4.94	8.76	3.16	0.30	0.00	0.10	0.00	0.00	0.12	0.00	19.78
10/1/2017	0.00	0.05	0.00	3.47	0.48	2.90	0.00	0.53	0.00	0.01	0.20	0.00	7.64
10/1/2018	0.67	1.97	1.54	3.84	8.16	1.97	0.48	3.62	0.00	0.00	0.00	0.00	22.25
10/1/2019	0.00	3.90	3.06	0.28	0.70	6.52	4.43	0.02	0.11	0.00	0.00	0.00	19.02
10/1/2020	0.00	0.70	1.26										
Mean Monthly	0.30	1.18	2.67	2.49	2.11	1.93	0.96	0.59	0.03	0.22	0.18	0.12	
Mean Annual Rainfall =													13.31

Appendix R. Historical Rainfall Data at NOAA Climatic Station USC00047306 - Redlands, California

Item 5.

Water Year Beginning	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
10/1/1962				0.38	2.56	2.25	1.81	0.00	0.31	0.00	0.14	2.96	10.40
10/1/1963	1.25	2.08	0.05	1.63	0.23	2.27	0.84	0.30	0.09	0.19	0.00	0.10	9.05
10/1/1964	0.18	1.57	0.97	0.38	0.36	1.82	4.74	0.14	0.07	0.09	0.20	0.62	11.15
10/1/1965	0.00	7.63	3.07	1.10	1.11	0.38	0.05	0.10	0.00	0.02	0.00	0.27	13.73
10/1/1966	0.52	0.70	8.07	1.06	0.00	1.99	2.60	0.33	0.17	0.00	0.51	0.32	16.28
10/1/1967	0.00	3.00	1.92	0.59	0.41	1.78	1.11	0.30	0.09	0.48	0.04	0.00	9.72
10/1/1968	0.16	0.49	1.04	9.76	9.91	1.36	0.84	1.14	0.11	0.07	0.00	0.31	25.19
10/1/1969	0.03	1.30	0.06	1.06	1.12	3.70	0.22	0.02	0.02	0.00	0.69	0.00	8.23
10/1/1970	0.02	2.63	3.47	0.67	0.52	0.54	0.74	1.30	0.04	0.00	0.00	0.00	9.93
10/1/1971	0.00	0.16	4.46	0.00	0.11	0.01	0.07	0.13	0.49	0.00	0.11	0.17	5.72
10/1/1972	0.84	2.14	1.64		4.55	3.96	0.12	0.10	0.00	0.00	0.02	0.00	13.37
10/1/1973	0.05	1.58	0.06	5.57	0.06	2.70	0.46	0.00	0.00	0.04	0.00	0.00	10.53
10/1/1974	0.68	0.14	2.10	0.43	1.32	3.52	1.56	0.15	0.16	0.00		0.00	10.06
10/1/1975	0.43	0.73	0.45	0.00	5.38	0.75	1.48	0.35	0.11	0.01	0.00	3.81	13.50
10/1/1976	0.84		0.45	2.39	0.76	1.08	0.00	3.11	0.00	0.00	2.29	0.00	10.92
10/1/1977	0.04			6.78	6.24	6.67	1.76	0.02	0.00	0.00	0.42	0.62	22.54
10/1/1978	0.23	2.00	2.26	4.77	2.87	4.59	0.02	0.74	0.09	0.78	0.02	0.00	18.37
10/1/1979	1.27	0.09	0.16	7.74		3.89	1.20	0.46	0.05	0.00	0.00	0.00	14.87
10/1/1980	0.06	0.00	0.21	1.41	0.86	2.03	0.46	0.27	0.00	0.00	0.00	0.00	5.30
10/1/1981	1.22	0.82	1.23	8.58		4.55	1.18	0.59	0.05	0.00	0.27	2.41	20.91
10/1/1982	0.22	3.19	1.37	5.02	3.64	2.86	3.19	0.11	0.00	0.00	2.55	1.05	23.19
10/1/1983	0.96	2.68	2.29	0.12	0.31	0.24	0.25	0.01	0.03	0.59	0.06	0.42	7.96
10/1/1984	0.14	1.33	5.13	1.14	1.05	1.04	0.09	0.00	0.00	0.04	0.00	0.46	10.42

Appendix R. Historical Rainfall Data at NOAA Climatic Station USC00047306 - Redlands, California

Item 5.

Water Year Beginning	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
10/1/1985	0.54	2.83	0.41	0.80	2.44	3.05		0.00	0.00	0.14	0.00	0.46	10.67
10/1/1986	0.62	0.97	2.20	1.91	2.00	1.75	0.28	0.07	0.12	0.04	0.11	0.04	10.11
10/1/1987	2.66	1.61	1.85	1.61	0.81	0.69	3.36	0.09	0.04	0.00	0.02	0.06	12.80
10/1/1988	0.00	0.55	2.57	1.06	2.69	0.94	0.10	0.30	0.00	0.00	0.00	0.66	8.87
10/1/1989	0.28	0.23	0.00	1.93	2.40	0.69	0.83	0.66	0.12	0.41	0.10	0.01	7.65
10/1/1990	0.06	0.26	0.05	2.15	3.41	7.56	0.04	0.03	0.00	0.17	0.00	0.04	13.77
10/1/1991	0.48	0.14	1.37	2.83	4.90	5.35	0.22	0.25	0.00	0.48	0.00	0.00	16.03
10/1/1992	0.90	0.00	4.78	11.69	7.55	1.95	0.00	0.04	1.09	0.00	0.00	0.00	28.00
10/1/1993	0.20	1.18	1.20	0.79	3.87	3.33	0.98	0.51	0.00	0.03	0.00	0.00	12.09
10/1/1994	0.31	0.44	1.00	9.21	1.80	6.59	0.80	0.49	0.97	0.05	0.05	0.01	21.72
10/1/1995	0.00	0.08	0.51	1.39	4.47	1.36	0.38	0.00	0.00	0.10	0.02	0.01	8.32
10/1/1996	0.91		1.75	6.13	0.00	0.00	0.03	0.00	0.07	0.01	0.00	1.12	10.04
10/1/1997	0.26	1.48	2.35	2.82	12.09	2.51	1.15	2.70	0.04	0.00	0.56	1.15	27.13
10/1/1998	0.25	0.61	0.33	1.16	0.62	0.27	2.26	0.09	0.47	0.05	0.00	0.00	6.12
10/1/1999	0.00	0.04	0.02	0.87	3.65	2.15	1.05	0.06	0.00	0.00	0.03	0.05	7.91
10/1/2000	0.64	0.07	0.07	2.90	3.49	1.58	1.42	0.06	0.00	0.02	0.00	0.00	10.26
10/1/2001	0.05	1.12	0.85	0.27	0.04	0.78	0.44	0.01	0.00	0.00	0.00	0.02	3.60
10/1/2002	0.00	1.56	2.37	0.01	5.44	3.00	2.57	0.73	0.10	0.14	0.00	0.00	15.93
10/1/2003	0.00	1.64	1.17	0.39	4.29	0.80	0.96	0.03	0.00	0.00	0.05	0.09	9.42
10/1/2004	6.16	1.07	2.81	6.17	6.84	0.96	0.66	0.47	0.06		0.00	0.18	25.38
10/1/2005	1.63	0.00	0.17	1.05	2.19		3.02	0.12	0.00	0.05		0.00	8.23
10/1/2006	0.08	0.08	0.61	1.27	0.49	0.49	0.88	0.00	0.00	0.00	0.00	0.07	3.97
10/1/2007	0.11	1.99	2.04	3.37	2.13	0.11	0.00	1.06	0.00	0.00	0.00	0.00	10.81

Appendix R. Historical Rainfall Data at NOAA Climatic Station USC00047306 - Redlands, California

Item 5.

Water Year Beginning	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
10/1/2008	0.00	1.92	3.40	0.20	2.91	0.08	0.10	0.00	0.01	0.00	0.00	0.01	8.64
10/1/2009	0.03	0.43	2.77	7.48	2.69	0.70	1.35	0.00	0.00	0.00	0.00	0.00	15.46
10/1/2010	0.70	1.19	12.60	1.13	2.82	1.83	0.19	0.50	0.01	0.31	0.00	0.05	21.33
10/1/2011	0.43	1.19	0.31	0.53	0.53	1.95	1.57	0.16	0.00	0.20	0.34	0.00	7.22
10/1/2012	0.06	0.72	2.95	1.28	1.43	0.92	0.02	0.24	0.00	0.20	0.11	0.00	7.93
10/1/2013	0.59	1.33	0.31	0.03	1.91	0.48	1.13	0.01	0.00	0.00	1.25	0.00	7.04
10/1/2014	0.00	0.39	3.97	0.53	0.93	0.51	0.53	0.80	0.00	1.66	0.00	0.89	10.21
10/1/2015	0.35	0.24	1.00	3.40	0.23	1.41	1.11	0.08	0.00	0.00	0.00	0.01	7.83
10/1/2016	0.82	1.39	3.89	7.02	2.61	0.10	0.01	0.27	0.00	0.00	0.19	0.01	16.31
10/1/2017	0.01	0.05	0.00	3.40	0.40	2.06	0.00	0.37	0.00	0.11	0.00	0.00	6.40
10/1/2018	0.87	1.10	1.43	3.17	5.66	2.24	0.07	1.44	0.01	0.00	0.00	0.00	15.99
10/1/2019	0.00	2.69	2.77	0.11	0.38	4.85	4.37	0.00	0.02	0.00	0.00	0.00	15.19
10/1/2020	0.00	0.69	1.37										
Mean Monthly	0.50	1.19	1.89	2.64	2.56	2.05	0.99	0.37	0.09	0.11	0.18	0.32	
Mean Annual Rainfall =													12.62

Appendix R. Historical Rainfall Data at NOAA Climatic Station US1CASR0044 - Yucaipa, California

Item 5.

Water Year Beginning	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
10/1/2013							1.02	0.02	0.00	0.25	0.62	0.52	2.43
10/1/2014	0.00	0.89	5.51	0.75	1.38	0.35	0.79	1.22	0.06	1.46	0.00	1.08	13.49
10/1/2015	0.89	0.54	1.52	3.84	0.63	1.74	2.01	0.51	0.00	0.00	0.00	0.11	11.79
10/1/2016	0.69	1.89	4.63	8.31	3.35	0.65	0.00	0.63	0.02	0.00	1.04	0.09	21.30
10/1/2017	0.17	0.05	0.00	2.75	0.77	2.82	0.02	0.98	0.00	0.03	0.00	0.00	7.59
10/1/2018	1.15	1.93	1.57	4.43	9.52	2.11	0.28	3.64	0.13	0.00	0.00	0.17	24.93
10/1/2019	0.03	3.63	3.93	0.12	0.96	5.81	4.35	0.00	0.09	0.00	0.00	0.00	18.92
10/1/2020	0.01	1.10	1.39										
Mean Monthly	0.42	1.43	2.65	3.37	2.77	2.25	1.21	1.00	0.04	0.25	0.24	0.28	
Mean Annual Rainfall =													16.34

APPENDIX S

**Salinity and Nutrient Management Plan for the Beaumont
Management Zone, San Timoteo Management Zone and the
Yucaipa Management Zone**



**Salinity and Nutrient Management Plan for the
Beaumont Management Zone, San Timoteo
Management Zone and the Yucaipa
Management Zone**

October 29, 2015

Prepared by:

Yucaipa Valley Water District

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Background

As part of the development of the 2004 Salt Management Plan, several agencies proposed alternative, less stringent TDS and nitrate-nitrogen objectives for specific groundwater management zones. Management zones are intended to be distinct groundwater units from a groundwater flow and water quality perspective. In general, the established groundwater management zone boundaries are consistent with groundwater flow regimes and include well-defined areas of recharge and discharge. The intent was to accommodate efficient water and wastewater management programs, including the increased use of recycled water. These proposals were based on the requirements of the State's antidegradation policy (State Board Resolution No. 68-16) and Water Code Section 13241, including economics, and the need to use recycled water. Because the less stringent objectives would allow for a lowering of water quality, the agencies recommending them were required to demonstrate that their proposed objectives would protect beneficial uses and that water quality consistent with the maximum benefit of the people of the state would be maintained. Thus, the objectives were termed "maximum benefit" water quality objectives. Among the agencies that proposed "maximum benefit" objectives for their underlying management zones were the Yucaipa Valley Water District (YVWD), the City of Beaumont, and members of the San Timoteo Watershed Management Authority (STWMA).

YVWD provides both drinking water service, recycled water service, and sewer collection and treatment services within its service area. The service area consists primarily of residential homes, with some commercial and light industry. As a result of widespread septic system failures in the 1960' and 1970's, a sewer moratorium was placed on much of the Yucaipa Valley, which now includes the City of Yucaipa and portions of unincorporated San Bernardino County and the City of Calimesa and portions of unincorporated Riverside County. Collection sewers were installed in most of the Yucaipa Valley by 1986, although there are still portions within both Cities and Counties that are on septic systems. The sewer treatment plant with secondary treatment began operation in October 1986, and underwent expansions and treatment updates in 1992 and 2008 to now provide Title 22 tertiary treated effluent. Desalting facilities were added in 2013.

The Yucaipa Valley Wochholz Regional Water Reclamation Facility ("WRWRF") NPDES discharge permit allows the facility to treat 8.0 million gallons per day (MGD), peak flow of 10.0 MGD and can be expanded to 12.0 MGD.

The WRWRF effluent meets Title 22 Water Recycling Criteria as defined in the CCR for unrestricted reuse (California, 2001). Two recycled water customers currently receive recycled effluent from the WRWRF. Excess treated effluent is discharged to the San Timoteo Creek at Reach 3, which is tributary to Reach 5 of Santa Ana River. The treatment facility includes influent screening, grit removal, primary clarifiers, pre-anoxic basins for denitrification, integrated fixed film activated sludge (IIFAS) system for nitrification followed by secondary clarification and tertiary treatment consisting of microfiltration, ultraviolet light (UV) disinfection, and reverse osmosis.

The reverse osmosis treatment process was added to the WRWRF in 2013 upon completion of the Yucaipa Valley Regional brineline. The Yucaipa Valley Regional brineline connects the WRWRF to the Santa Ana Watershed's Project Authority's Inland Empire Brine Line (IEBL), formerly known as the Santa Ana Regional Inceptor (SARI) and allows for the conveyance of reverse osmosis concentrate for treatment by Orange County Sanitation District. The reverse osmosis permeate is recombined with the WRWRF microfiltration effluent as a permitted diluent to meet TDS objectives for the Beaumont Management Zone, the Yucaipa Management Zone,

and the San Timoteo Management Zone as specified in the Santa Ana Region Basin Plan and the permits issued to the Yucaipa Valley Water District.

Recycled water produced by the Yucaipa Valley Water District will be reused within the District's sphere of influence for landscape irrigation and groundwater recharge and within the Beaumont-Cherry Valley Water District service area and the Bunker Hill Basin at a future date. The Yucaipa Valley Water District has established the goal of eliminating or reducing WWTP effluent discharge to the unlined reach of San Timoteo Creek by 2020. Whole or partial removal of discharge from the unlined reach of the San Timoteo Creek would improve the quality of groundwater in the San Timoteo Management Zone and supplement recycled water supplies available for reuse elsewhere in the service area, which is an objective of the RWQCB's Basin Plan Amendment and is a maximum benefit for the Management Zones in the Upper Santa Ana Watershed.

YVWD plans to increase recycled water usage in the region which provides the following benefits to the watershed:

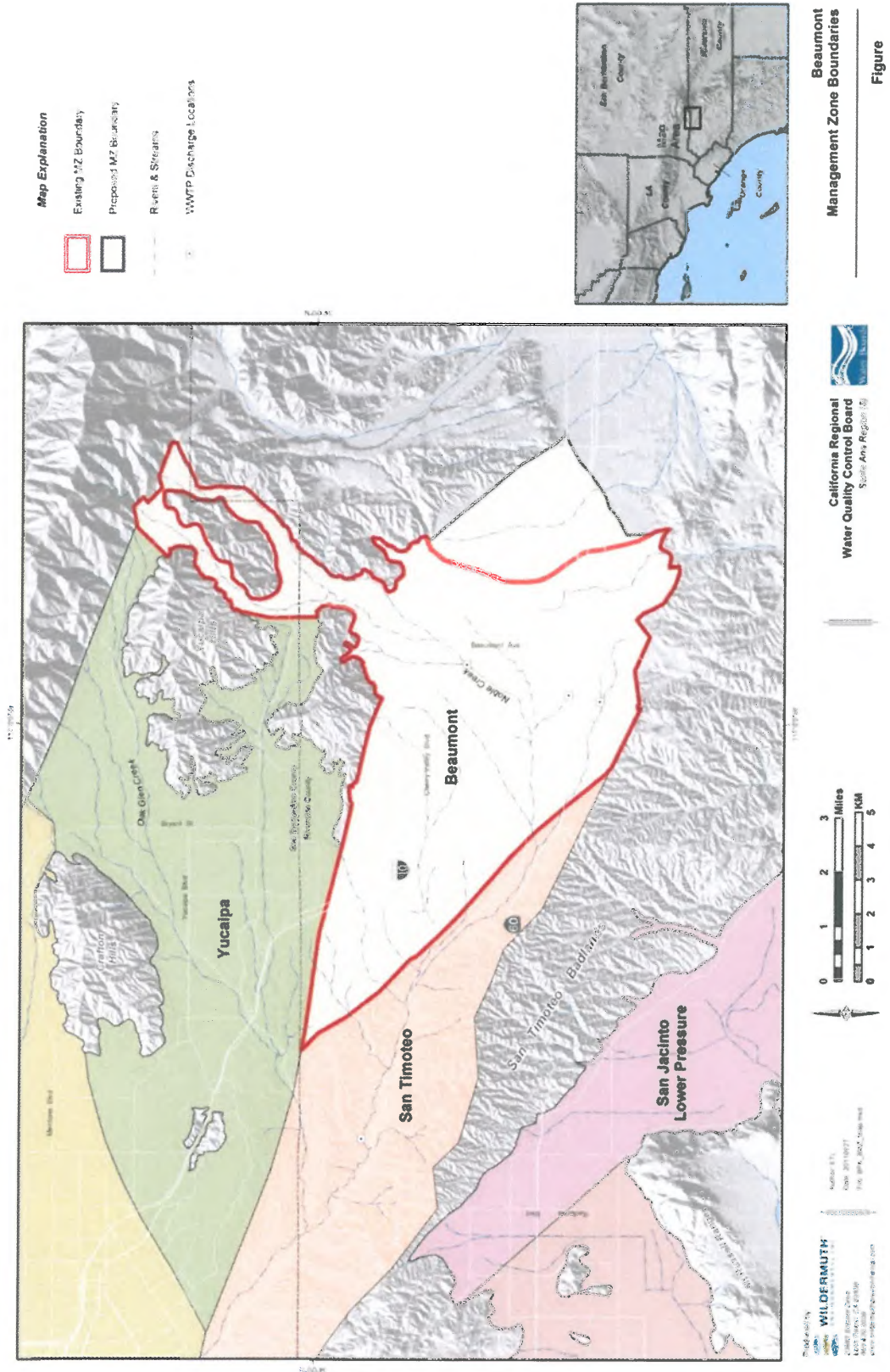
- Provides an immediate alternate water supply for residential, business, industrial and institutional customers, thus releasing a like amount of local water resource for use during statewide drought emergencies.
- Conserves groundwater and surface water that would otherwise be used for irrigation use.
- Provides a reliable and drought proof water supply source.
- Provides an alternative to sewer discharge into the tributaries of the Santa Ana River and meets the Clean Water Act goal of zero discharge.

The San Timoteo Watershed Management Authority (STWMA) was formed in January 2001 by the Beaumont Cherry Valley Water District (BCVWD), the City of Beaumont, the South Mesa Water Company and Yucaipa Valley Water District (YVWD). STWMA formed a stakeholder group to develop a watershed scale water resources management program that would provide a safe and reliable water supply for all water users in the watershed. On June 26, 2002, STWMA submitted a proposal to establish "maximum benefit" objectives for TDS and nitrate-nitrogen for the Beaumont, San Timoteo and Yucaipa groundwater management zones, to accommodate water resource management projects, including the recharge of stormwater, imported State Project Water (SWP) and recycled water. On January 23, 2003, YVWD submitted a separate maximum benefit proposal for the Yucaipa and the San Timoteo Management Zones. The Regional Board adopted the maximum benefit proposals in 2004 as part of the larger salt and nutrient management plan update (Resolution R8-2004-0001). This included specific implementation commitments designed to comply with antidegradation policy requirements. The affected management zones are shown below and the maximum benefit and the antidegradation TDS and TIN objectives for the Yucaipa, San Timoteo, and the Beaumont Basin are shown in Table 1.

Table 1
Maximum Benefit TDS/TIN Limits

Groundwater Management Zone	TDS (mg/L) (10-yr volume weighted running average)	TIN (mg/L) (12-month flow weighted running average)
Maximum Benefit Limitations		
San Timoteo	400	5.0
Yucaipa	370	5.0
Beaumont	330	5.0
Antidegradation Limitations		
San Timoteo	300	2.7
Yucaipa	320	4.2
Beaumont	230	1.5

Source: RWQCB, 2007



Salinity Management Plan for the Yucaipa Management Zone

Both “antidegradation” and “maximum benefit” objective for total dissolved solids (TDS) and nitrate-nitrogen (TIN) are specified for the Yucaipa Management Zone. The application of the “maximum benefit” objectives for the Yucaipa Management Zone is contingent on the implementation of a specific watershed scale water resources management plan by YVWD. YVWD provides both potable water service, recycled water service, and wastewater collection and treatment services within this service area. The “maximum benefit” objectives allow the management plan to be implemented. The plan supports and guides the responsible water management into the future. The plan includes recharge of high quality imported water, use of recycled water for landscape irrigation, recharge, and construction grading, and import of State Water Project (SWP) water into the Yucaipa Valley Regional Water Filtration Facility (YVRWFF) for potable water delivery to customers to reduce local groundwater pumping.

The Yucaipa Valley Water District has been and remains the sole agency responsible to implement the maximum benefit commitments in the Yucaipa Management Zone. Since the adoption of the maximum benefit management plan for the Yucaipa Management Zone, YVWD has been successfully implementing the maximum benefit commitments specified in Table 5-9a. YVWD has been conducting surface water and groundwater monitoring and reporting on schedule, contributing financially to the Basin Monitoring Program Task Force (BMPTF) to update the wasteload allocation model and the re-computation of the ambient quality of the groundwater management zones, and has upgraded the District’s waste water treatment plant for nitrogen removal. YVWD has been proactive in salt management activities within its service area.

In 2008, the YVWD Board adopted Resolution No. 11-2008, which identified pollution prevention measures that the District will implement to eliminate pollution sources contributing to salinity in excess of the TDS objectives, such as requirements for new development to connect to sewers, a dry sewer collection system in anticipation of new development, and a sewer septic offset program.

Should the Regional Board make a finding that the lowering of water quality associated with the maximum benefit TDS and nitrate-nitrogen water quality objectives that are higher than historical water quality (the antidegradation objectives) is not of maximum benefit to the people of California, the YVWD will take the actions listed below to mitigate the excess salt loading above the antidegradation water quality objectives.

Basin Management Activities

The Yucaipa Management Zone consists of multiple subbasins of varying water groundwater quality and quantity. The basins are used and managed to varying extents by the Yucaipa Valley Water District, South Mesa Mutual Water Company, Western Heights Mutual Water Company, the City of Redlands, Oak Glen Mutual Water Company, and individual overlying property owners. In conjunction with the South Mesa Mutual Water Company, Western Heights Mutual Water Company, the City of Redlands, and the Regional State Project water contractors San Bernardino Valley Municipal Water District and the San Gorgonio Pass Water Agency, YVWD is participating in various basin studies and groundwater management plans for the Yucaipa Basin. YVWD is currently participating in the Yucaipa Basin Recharge Study, one of which objectives would be the determination of best locations for future recharge of stormwater, imported SWP water, and recycled water. YVWD also has initiated a cooperative efforts with the other water purveyors to manage the groundwater within the Yucaipa Basin, as directed by the Sustainable Groundwater Management Act. As a partner and facilitator in managing the Yucaipa Groundwater Basin,

YVWD will develop long term water quality monitoring programs for those subbasins it controls and can recommend water quality programs for the purveyors controlling other subbasins within the Yucaipa Management Zone. YVWD will continue to participate in basin studies that promote better understanding of the Yucaipa Groundwater Basin and the effects of recharge, to include recycled water, on the water quality within subbasins and cumulatively for the entire Yucaipa Groundwater Basin.

YVWD will continue monitoring and, in consultation with the RWQCB-SAR staff, accelerate such sampling if necessary.

Basin Water Quality Sampling and Monitoring

YVWD currently performs annual water quality sampling for water quality including TDS and TIN for the Yucaipa groundwater basin. YVWD is also investigating strategies for monitoring and predicting long term water quality improvements as a result of high quality imported and recycled water recharge within the Yucaipa Management Zone.

Stormwater Recharge Basins and Groundwater Recharge

The Yucaipa Valley Water District (District) has partnered with Yucaipa City and the San Bernardino County Flood Control District in the construction and operation of various flood control/water recharge facilities, with plans for future partnering at appropriate locations. The District partnered in the construction of the Oak Glen Flood Control and Water Recharge Basins and actively participate in the maintenance and operation of the basins in recharging water to the Yucaipa Basins. The District has also purchased and spread over 16,000 ac-ft of low TDS State Water Project (SWP) water in the Wilson Creek Flood Control and Spreading basins over the past decade. The District has an active program including a funding mechanism to purchase low TDS SWP water when it is available and recharge it into the Yucaipa Management Zone groundwater basins to both increase the water storage in the management zone and also to maintain and lower the groundwater TDS.

The District also purchases SWP water for direct treatment and use as potable water, thereby reducing groundwater pumping of high quality groundwater by an equivalent amount. The potable water treatment consists of both microfiltration and blending with a portion receiving nanofiltration resulting in lower TDS water being delivered to customers, which results in lower TDS water being applied within the Yucaipa Management Zone.

YVWD will continue to participate in recharge of stormwater, high quality imported SWP water, and high quality recycled water when available.

Basin Monitoring program Task Force

YVWD has been an active member of the TDS/TIN task Force and its successor the Basin Monitoring program Task Force since its inception in the early 1990's and will continue to be an active participant.

Pretreatment Program and Reduction and Elimination of Self-Generating Water Softeners

YVWD maintains an active pretreatment program. There are various commercial and retail businesses and a few industrial facilities within the YVWD sewer service area. TDS is actively monitored for the small number of pretreatment permits issued by YVWD.

The YVWD currently prohibits self-generating water softeners under YVWD Ordinance No. 49-1998 Use of Public Sewers. Self-generating water softeners are those where salt is continuously added versus cartridge type water softeners which have the salt cartridge replaced and the used cartridge is removed off-site to a regenerating facility. YVWD does not actively police the use of residential water softeners however due to the difficulty of identifying users. The District relies instead on public education for its customers. At this time, it is not believed that the number of self-generating water softeners is causing a significant problem. YVWD does include a salt mitigation fee in the water acquisition fee for all new potable water services.

YVWD continues to investigate new methods of monitoring waste flow quantities and quality to protect the WRWRF from treatment ‘upsets’ and, should TDS begin to be a problem, YVWD will explore options to identify sources of high TDS and methods to eliminate the problem. Under the District’s pretreatment program, commercial and industrial customer could be prohibited from excess salt discharge, or charged additional costs for the additional desalting treatment required. For residential customer, one option is rebates to have customers remove self-generating water softeners, although this would appear to reward customers for violating the District’s sewer ordinance. A more probable solution would be to identify the source and place a “salt surface” on the customer to cover the additional desalting treatment required.

Elimination of Onsite Septic Systems to reduce the nitrogen loading in the Yucaipa Management Zone

YVWD is developing a program to facilitate the extension of sewers to areas still served by septic systems and to facilitate the connection of customers currently on septic systems but “fronted” by a sewer collection main. The District has installed an interceptor sewer (Western Regional Interceptor) in the Dunlap Acres portion of the City of Yucaipa. The majority of this area is currently not sewered. A number of collector mains have also been installed. The District is investigating and developing an incentive plan to facilitate the connection of properties fronted by the interceptor and collector mains. In conjunction with the development of an incentive plan for properties to connect to sewer and abandon their septic systems, YVWD is developing a funding program to extend the sewer collection system to additional properties.

The District has prepared preliminary plans and costs and conducted polls and public hearings to determine the level of interest in the installation of collector sewers in various sections of the Cities of Yucaipa and Calimesa that are on septic systems.

The District also actively participates and promotes the Santa Ana Region Septic Tank Off-Set Program. These efforts will continue, and could be accelerated in the case of rising TDS levels in the Yucaipa Management Zone.

Reverse Osmosis and the Yucaipa Brineline

The Yucaipa Valley Water District completed construction of a brineline extension from the Inland Empire Brine Line (previously called Santa Ana Regional Interceptor) terminus in San Bernardino east through Loma Linda, Redlands, and San Timoteo Canyon to Live Oak Canyon and northerly up Live Oak Canyon to the District’s WRWRF in Crow Canyon in Yucaipa. YVWD has also completed construction of RO facilities at its WRWRF. The District has obtained the required permits to operate these facilities and continues to purchase additional brineline capacity when available to provide for future expansion of the desalting facilities as needed. The District also has invested in denitrification facilities to allow additional denitrification treatment as needed in the future. As a result, should the District need to meet antidegradation objectives, YVWD retains

the capability to meet the antidegradation objectives if necessary. Additionally, YVWD continues to explore new methodology and options to meet future demands while protecting and improving existing resources.

Salinity Management Plan for the San Timoteo Management Zone

The WRWRF discharge permit allows the facility to treat 8.0 million gallons per day (MGD) and discharge Title 22 effluent to San Timoteo Creek at Reach 3. The permit allows up to 1.6 MGD to be discharged at the “maximum benefit” objectives of annual flow weighted average TDS concentration not to exceed 400 mg/l annual flow weighted average TIN concentration not to exceed 6.7 mg/l. For flows in excess of 1.6 MGD where maximum benefit is not demonstrated the annual flow weighted average TDS concentration shall not to exceed 300 mg/l and the annual flow weighted average TIN concentration shall not to exceed 3.6 mg/l.

Should the Regional Board make a finding that the lowering of water quality associated with the maximum benefit TDS and nitrate-nitrogen water quality objectives that are higher than historical water quality (the antidegradation objectives) is not of maximum benefit to the people of California, the YVWD will take the actions listed below to mitigate the excess salt loading above the antidegradation water quality objectives.

YVWD currently performs bi-weekly monitoring and water quality sampling of TDS and TIN for surface flows of San Timoteo Creek and annual water quality sampling for TDS and TIN for the San Timoteo groundwater basin above and below the YVWD WRWRF effluent discharge location into the San Timoteo Creek. YVWD will continue monitoring and, in consultation with the RWQCB-SAR staff, accelerate such sampling if necessary.

As stated above, YVWD will eliminate effluent discharge to the unlined reach of San Timoteo Creek. The use of recycled water in YVWD recycled water system will reduce or discontinue WRWRF discharge to the creek. YVWD has obtained the permits required to remove 100 percent of the WRWRF effluent from the Creek, subject to the maintenance of habitat as listed for the adaptive habitat management for the Habitat Monitoring Program for San Timoteo Creek. Whole or partial removal of discharge from the unlined reach of the San Timoteo Creek would improve the quality of groundwater in the San Timoteo Management Zone.

In the case whereby the WRWRF effluent from the San Timoteo Creek, YVWD would employ the desalting and denitrification facilities at the WRWRF and the Yucaipa brineline to discharge effluent at the antidegradation objectives of annual flow weighted average TDS concentration shall not to exceed 300 mg/l and annual flow weighted average TIN concentration shall not to exceed 3.6 mg/l.

Salinity Management Plan for the Beaumont Management Zone

A portion of the YUWD service area overlies the Beaumont Management Zone. Both “antidegradation” and “maximum benefit” objective for total dissolved solids (TDS) and nitrate-nitrogen (TIN) are specified for the Beaumont Management Zone. The application of the “maximum benefit” objectives for the Beaumont Management Zone is contingent on the implementation of a specific watershed scale water resources management plan by YVWD. YVWD provides both potable water service, recycled water service, and wastewater collection and treatment services within this service area. The “maximum benefit” objectives allow the management plan to be implemented. The plan supports and guides the responsible water management into the future. The plan includes recharge of high quality imported water, use of recycled water for landscape irrigation, recharge, and construction grading, and import of State

Water Project (SWP) water into the Yucaipa Valley Regional Water Filtration Facility (YVRWFF) for potable water delivery to customers to reduce local groundwater pumping.

Within this portion of YVWD's service area that overlies the Beaumont Basin, YVWD will take similar steps to those listed under the Yucaipa Basin Management Zone to reduce salinity and nitrate-nitrogen levels in the groundwater to meet the maximum benefit objectives, and in the case where the Regional Board make a finding that the lowering of water quality associated with the maximum benefit TDS and nitrate-nitrogen water quality objectives that are higher than historical water quality (the antidegradation objectives) is not of maximum benefit to the people of California, the YVWD will take the actions listed under the Yucaipa Management Zone to mitigate the excess salt loading above the antidegradation water quality objectives.

Attachment California Regional Water Quality Control Board
Santa Ana Region
Resolution No R8-2014-0005



Staff Report

TO: City Council
FROM: Kyle Warsinski, Economic Development Manager
DATE May 4, 2021
SUBJECT: Retail Market Analysis Update

Background and Analysis:

The City of Beaumont's Economic Development Strategic Plan (EDSP) was approved in August 2019, and provides a blueprint for attracting targeted new development and business investment, creating jobs, and contributing to the City's long-term fiscal health. The EDSP identifies key industries to be the focus of Beaumont's business retention, expansion, and attraction efforts and includes action on closely related issues such as infrastructure, land use and workforce development. One of the key action items within the EDSP is industry targeting both for job creators and local serving businesses. The later consists of retailers which provide the goods and services Beaumont residents have come to expect in their community.

On December 15, 2020, City Council approved a contract with The Retail Coach to perform a retail market analysis and to assist City staff in the recruitment of retailers. The work involved conducting a site assessment of the City's market trade area and profile the customer's buying habits, and lifestyle characteristics. The results of the assessment will be used to guide the City in its efforts to grow the retail sector. These results can also be used to shape and refine City goals and policies over the long term.

The Retail Market Analysis was specified to include the following key points:

Market Analysis Report:

- Population and household increases,
- Consumer and household demographic profiles,
- Consumer demand and market supply assessment,
- Drive time analysis for five areas in the City,
- Competition,
- Existing retail firms,
- Retail leakage and surplus,

- Retail development in similar cities,
- Market cannibalization,
- Retail trends and market viability, and
- Key psychographics.

A significant portion of the Retail Market Analysis has been completed and the following documents have been attached for review.

- City of Beaumont demographic and psychographic datasets,
- Primary Retail Trade Area demographic and psychographic datasets,
- City of Beaumont workplace population report,
- Primary Retail Trade Area retail demand outlook, and
- Primary Retail Trade Area gap / opportunity analysis.

These documents are being used to identify and recruit retailers looking to expand into trade areas with similar statistics. The Retail Coach and City staff have completed a retailer match list and have started the retail recruitment process using these updated and modern datasets. Other custom datasets may be produced if requested by City staff, a retailer, or to further enhance a recruitment process.

Fiscal Impact:

The work contained within this report is part of the contract amount. The annual cost of the contract for the first year is not to exceed \$48,500. City staff estimates it cost approximately \$1,365 to prepare this report.

Recommended Action:

Receive and file the report.

Attachments:

- A. City of Beaumont demographics
- B. City of Beaumont psychographics
- C. Primary Retail Trade Area demographics
- D. Primary Retail Trade Area psychographics
- E. City of Beaumont workplace population report
- F. Primary Retail Trade Area retail demand outlook
- G. Primary Retail Trade Area gap / opportunity analysis
- H. Presentation

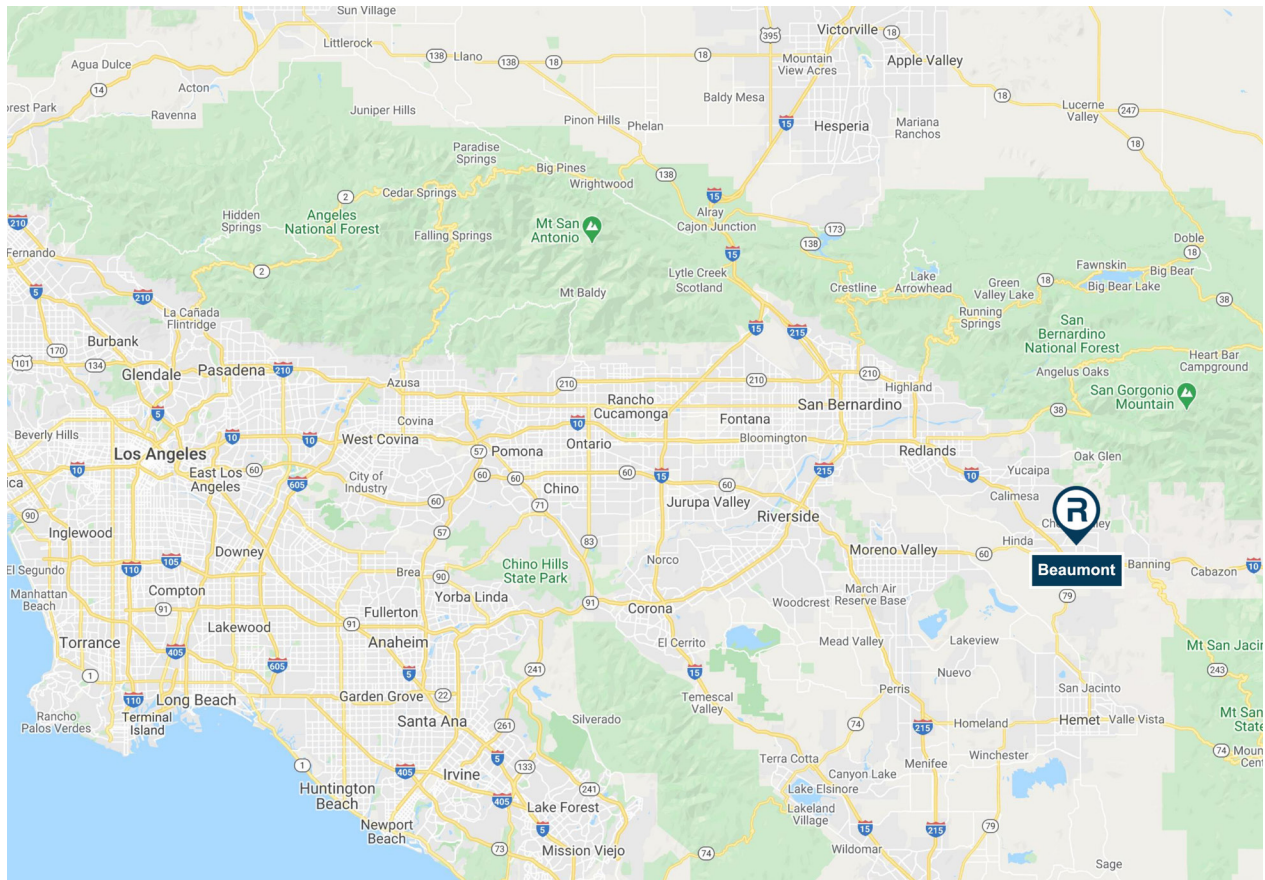


BEAUMONT, CALIFORNIA

Community Demographic Profile



Community



Prepared for:



City of Beaumont, CA
 Kyle Warsinski
 Economic Development Manager

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About The Retail Coach

The Retail Coach is a national retail recruitment and development firm that combines strategy, technology, and creative expertise to develop and deliver high-impact retail recruitment and development plans to local governments, chambers of commerce, economic development organizations and private developers.

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Retail:360® Process

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Community • Demographic Profile

Beaumont, California

Item 6.

DESCRIPTION	DATA	%
Population		
2026 Projection	55,647	
2021 Estimate	51,998	
2010 Census	36,877	
2000 Census	13,219	
Growth 2021 - 2026		7.02%
Growth 2010 - 2021		37.28%
Growth 2000 - 2010		178.97%
2021 Est. Population by Single-Classification Race	51,998	
White Alone	30,018	57.73%
Black or African American Alone	4,170	8.02%
Amer. Indian and Alaska Native Alone	676	1.30%
Asian Alone	5,273	10.14%
Native Hawaiian and Other Pacific Island Alone	156	0.30%
Some Other Race Alone	8,569	16.48%
Two or More Races	3,130	6.02%
2021 Est. Population by Hispanic or Latino Origin	51,998	
Not Hispanic or Latino	28,739	55.27%
Hispanic or Latino	23,259	44.73%
Mexican	44,547	85.67%
Puerto Rican	650	1.25%
Cuban	432	0.83%
All Other Hispanic or Latino	6,370	12.25%
2021 Est. Hisp. or Latino Pop by Single-Class. Race	23,259	
White Alone	12,436	53.47%
Black or African American Alone	158	0.68%
American Indian and Alaska Native Alone	374	1.61%
Asian Alone	177	0.76%
Native Hawaiian and Other Pacific Islander Alone	26	0.11%
Some Other Race Alone	8,482	36.47%
Two or More Races	1,605	6.90%
2021 Est. Pop by Race, Asian Alone, by Category	5,273	
Chinese, except Taiwanese	721	13.67%
Filipino	2465	46.76%
Japanese	90	1.70%
Asian Indian	307	5.83%
Korean	500	9.49%
Vietnamese	131	2.48%
Cambodian	113	2.15%
Hmong	162	3.08%
Laotian	40	0.75%
Thai	162	3.08%
All Other Asian Races Including 2+ Category	580	11.00%

DESCRIPTION	DATA	%
2021 Est. Population by Ancestry	51,998	
Arab	146	0.28%
Czech	99	0.19%
Danish	182	0.35%
Dutch	359	0.69%
English	2600	5.00%
French (except Basque)	671	1.29%
French Canadian	203	0.39%
German	4259	8.19%
Greek	52	0.10%
Hungarian	78	0.15%
Irish	3104	5.97%
Italian	1888	3.63%
Lithuanian	10	0.02%
United States or American	1815	3.49%
Norwegian	458	0.88%
Polish	577	1.11%
Portuguese	213	0.41%
Russian	364	0.70%
Scottish	671	1.29%
Scotch-Irish	234	0.45%
Slovak	10	0.02%
Subsaharan African	723	1.39%
Swedish	478	0.92%
Swiss	47	0.09%
Ukrainian	52	0.10%
Welsh	120	0.23%
West Indian (except Hisp. groups)	68	0.13%
Other ancestries	26451	50.87%
Ancestry Unclassified	6079	11.69%
2021 Est. Pop Age 5+ by Language Spoken At Home		
Speak Only English at Home	30,657	63.89%
Speak Asian/Pacific Island Language at Home	2,749	5.73%
Speak IndoEuropean Language at Home	883	1.84%
Speak Spanish at Home	13,551	28.24%
Speak Other Language at Home	149	0.31%

Community • Demographic Profile

Beaumont, California

Item 6.

DESCRIPTION	DATA	%
2021 Est. Population by Age	51,998	
Age 0 - 4	4,014	7.72%
Age 5 - 9	3,770	7.25%
Age 10 - 14	3,962	7.62%
Age 15 - 17	2,288	4.40%
Age 18 - 20	2,018	3.88%
Age 21 - 24	2,579	4.96%
Age 25 - 34	6,219	11.96%
Age 35 - 44	7,368	14.17%
Age 45 - 54	6,167	11.86%
Age 55 - 64	5,044	9.70%
Age 65 - 74	4,997	9.61%
Age 75 - 84	2,745	5.28%
Age 85 and over	832	1.60%
Age 16 and over	39,498	75.96%
Age 18 and over	37,969	73.02%
Age 21 and over	35,951	69.14%
Age 65 and over	8,574	16.49%
2021 Est. Median Age		36.61
2021 Est. Average Age		37.6
2021 Est. Population by Sex	51,998	
Male	25,427	48.90%
Female	26,571	51.10%

DESCRIPTION	DATA	%
2021 Est. Male Population by Age	25,427	
Age 0 - 4	2,052	8.07%
Age 5 - 9	1,927	7.58%
Age 10 - 14	2,029	7.98%
Age 15 - 17	1,162	4.57%
Age 18 - 20	1,037	4.08%
Age 21 - 24	1,320	5.19%
Age 25 - 34	3,049	11.99%
Age 35 - 44	3,529	13.88%
Age 45 - 54	3,089	12.15%
Age 55 - 64	2,377	9.35%
Age 65 - 74	2,243	8.82%
Age 75 - 84	1,251	4.92%
Age 85 and over	361	1.42%
2021 Est. Median Age, Male		35.4
2021 Est. Average Age, Male		36.6
2021 Est. Female Population by Age	26,571	
Age 0 - 4	1,961	7.38%
Age 5 - 9	1,841	6.93%
Age 10 - 14	1,934	7.28%
Age 15 - 17	1,127	4.24%
Age 18 - 20	980	3.69%
Age 21 - 24	1,259	4.74%
Age 25 - 34	3,167	11.92%
Age 35 - 44	3,837	14.44%
Age 45 - 54	3,077	11.58%
Age 55 - 64	2,668	10.04%
Age 65 - 74	2,755	10.37%
Age 75 - 84	1,496	5.63%
Age 85 and over	470	1.77%
2021 Est. Median Age, Female		37.69
2021 Est. Average Age, Female		38.6

Community • Demographic Profile

Beaumont, California

Item 6.

DESCRIPTION	DATA	%
2021 Est. Pop Age 15+ by Marital Status		
Total, Never Married	11,894	29.55%
Males, Never Married	6,150	15.28%
Females, Never Married	5,744	14.27%
Married, Spouse present	20,283	50.39%
Married, Spouse absent	1,984	4.93%
Widowed	1,964	4.88%
Males Widowed	535	1.33%
Females Widowed	1,429	3.55%
Divorced	4,126	10.25%
Males Divorced	1,485	3.69%
Females Divorced	2,636	6.55%
2021 Est. Pop Age 25+ by Edu. Attainment		
Less than 9th grade	1,702	5.10%
Some High School, no diploma	2,135	6.40%
High School Graduate (or GED)	9,543	28.60%
Some College, no degree	8,375	25.10%
Associate Degree	3,437	10.30%
Bachelor's Degree	5,339	16.00%
Master's Degree	2,236	6.70%
Professional School Degree	300	0.90%
Doctorate Degree	334	1.00%
2021 Est. Pop Age 25+ by Edu. Attain., Hisp./ Lat.		
No High School Diploma	2,199	19.14%
High School Graduate	4,002	34.84%
Some College or Associate's Degree	3,669	31.94%
Bachelor's Degree or Higher	1,617	14.08%
Households		
2026 Projection	16,549	
2021 Estimate	15,605	
2010 Census	11,910	
2000 Census	4,738	
Growth 2021 - 2026		6.05%
Growth 2010 - 2021		31.02%
Growth 2000 - 2010		151.37%
2021 Est. Households by Household Type	15,605	
Family Households	12,082	77.42%
Nonfamily Households	3,523	22.58%
2021 Est. Group Quarters Population	455	
2021 Households by Ethnicity, Hispanic/Latino	5,419	

DESCRIPTION	DATA	%
2021 Est. Households by Household Income	15,605	
Income < \$15,000	1,145	7.34%
Income \$15,000 - \$24,999	764	4.90%
Income \$25,000 - \$34,999	989	6.34%
Income \$35,000 - \$49,999	1,503	9.63%
Income \$50,000 - \$74,999	2,440	15.64%
Income \$75,000 - \$99,999	2,213	14.18%
Income \$100,000 - \$124,999	1,955	12.53%
Income \$125,000 - \$149,999	1,594	10.22%
Income \$150,000 - \$199,999	1,627	10.43%
Income \$200,000 - \$249,999	666	4.27%
Income \$250,000 - \$499,999	548	3.51%
Income \$500,000+	161	1.03%
2021 Est. Average Household Income		\$103,653
2021 Est. Median Household Income		\$85,530
2021 Median HH Inc. by Single-Class. Race or Eth.		
White Alone		\$81,184
Black or African American Alone		\$111,325
American Indian and Alaska Native Alone		\$125,773
Asian Alone		\$89,069
Native Hawaiian and Other Pacific Islander Alone		\$65,526
Some Other Race Alone		\$77,432
Two or More Races		\$105,715
Hispanic or Latino		\$80,839
Not Hispanic or Latino		\$88,548
2021 Est. Family HH Type by Presence of Own Child.	12,082	
Married-Couple Family, own children	4,395	36.38%
Married-Couple Family, no own children	5,036	41.68%
Male Householder, own children	525	4.35%
Male Householder, no own children	349	2.89%
Female Householder, own children	994	8.23%
Female Householder, no own children	783	6.48%
2021 Est. Households by Household Size	15,605	
1-person	2,734	17.52%
2-person	4,937	31.64%
3-person	2,667	17.09%
4-person	2,354	15.09%
5-person	1,518	9.73%
6-person	801	5.13%
7-or-more-person	594	3.81%
2021 Est. Average Household Size		3.03

Community • Demographic Profile

Beaumont, California

Item 6.

DESCRIPTION	DATA	%
2021 Est. Households by Presence of People Under 18	15,605	
Households with 1 or More People under Age 18:	6,565	42.07%
Married-Couple Family	4,711	71.76%
Other Family, Male Householder	613	9.34%
Other Family, Female Householder	1,190	18.13%
Nonfamily, Male Householder	35	0.53%
Nonfamily, Female Householder	16	0.24%
Households with No People under Age 18:	9,040	57.93%
Married-Couple Family	4,718	52.19%
Other Family, Male Householder	264	2.92%
Other Family, Female Householder	589	6.52%
Nonfamily, Male Householder	1,526	16.88%
Nonfamily, Female Householder	1,943	21.49%
2021 Est. Households by Number of Vehicles	15,605	
No Vehicles	304	1.95%
1 Vehicle	3,860	24.74%
2 Vehicles	6,431	41.21%
3 Vehicles	3,271	20.96%
4 Vehicles	1,087	6.97%
5 or more Vehicles	652	4.18%
2021 Est. Average Number of Vehicles		2.2
Family Households		
2026 Projection	12,814	
2021 Estimate	12,082	
2010 Census	9,328	
2000 Census	3,349	
Growth 2021 - 2026		6.06%
Growth 2010 - 2021		29.52%
Growth 2000 - 2010		178.53%
2021 Est. Families by Poverty Status	12,082	
2021 Families at or Above Poverty	11,276	93.33%
2021 Families at or Above Poverty with Children	5,559	46.01%
2021 Families Below Poverty	806	6.67%
2021 Families Below Poverty with Children	483	4.00%
2021 Est. Pop 16+ by Employment Status	39,498	
Civilian Labor Force, Employed	22,344	56.57%
Civilian Labor Force, Unemployed	1,122	2.84%
Armed Forces	47	0.12%
Not in Labor Force	15,985	40.47%

DESCRIPTION	DATA	%
2021 Est. Civ. Employed Pop 16+ by Class of Worker	22,344	
For-Profit Private Workers	15,044	67.33%
Non-Profit Private Workers	1,294	5.79%
Local Government Workers	445	1.99%
State Government Workers	1,014	4.54%
Federal Government Workers	2,847	12.74%
Self-Employed Workers	1,674	7.49%
Unpaid Family Workers	29	0.13%
2021 Est. Civ. Employed Pop 16+ by Occupation	22,344	
Architect/Engineer	203	0.91%
Arts/Entertainment/Sports	147	0.66%
Building Grounds Maintenance	543	2.43%
Business/Financial Operations	679	3.04%
Community/Social Services	369	1.65%
Computer/Mathematical	407	1.82%
Construction/Extraction	1258	5.63%
Education/Training/Library	1580	7.07%
Farming/Fishing/Forestry	80	0.36%
Food Prep/Serving	1296	5.80%
Health Practitioner/Technician	2109	9.44%
Healthcare Support	990	4.43%
Maintenance Repair	809	3.62%
Legal	188	0.84%
Life/Physical/Social Science	145	0.65%
Management	1665	7.45%
Office/Admin. Support	2914	13.04%
Production	1090	4.88%
Protective Services	753	3.37%
Sales/Related	2232	9.99%
Personal Care/Service	809	3.62%
Transportation/Moving	2078	9.30%
2021 Est. Pop 16+ by Occupation Classification	22,344	
White Collar	12,640	56.57%
Blue Collar	5,233	23.42%
Service and Farm	4,471	20.01%
2021 Est. Workers Age 16+ by Transp. to Work	22,344	
Drove Alone	18,172	81.33%
Car Pooled	2,397	10.73%
Public Transportation	210	0.94%
Walked	235	1.05%
Bicycle	16	0.07%
Other Means	302	1.35%
Worked at Home	1,012	4.53%

Community • Demographic Profile

Beaumont, California

Item 6.

DESCRIPTION	DATA	%
2021 Est. Workers Age 16+ by Travel Time to Work		
Less than 15 Minutes	4397	
15 - 29 Minutes	5375	
30 - 44 Minutes	7041	
45 - 59 Minutes	2447	
60 or more Minutes	3084	
2021 Est. Avg Travel Time to Work in Minutes		35
2021 Est. Occupied Housing Units by Tenure	15,605	
Owner Occupied	11,969	76.70%
Renter Occupied	3,636	23.30%
2021 Owner Occ. HUs: Avg. Length of Residence		11.1
2021 Renter Occ. HUs: Avg. Length of Residence		5.7
2021 Est. Owner-Occupied Housing Units by Value	15,605	
Value Less than \$20,000	171	1.43%
Value \$20,000 - \$39,999	218	1.82%
Value \$40,000 - \$59,999	61	0.51%
Value \$60,000 - \$79,999	92	0.77%
Value \$80,000 - \$99,999	48	0.40%
Value \$100,000 - \$149,999	166	1.39%
Value \$150,000 - \$199,999	366	3.06%
Value \$200,000 - \$299,999	2,466	20.60%
Value \$300,000 - \$399,999	4,543	37.96%
Value \$400,000 - \$499,999	2,709	22.63%
Value \$500,000 - \$749,999	802	6.70%
Value \$750,000 - \$999,999	140	1.17%
Value \$1,000,000 or \$1,499,999	30	0.25%
Value \$1,500,000 or \$1,999,999	16	0.13%
Value \$2,000,000+	141	1.18%
2021 Est. Median All Owner-Occupied Housing Value		\$352,806
2021 Est. Housing Units by Units in Structure		
1 Unit Detached	14,344	85.25%
1 Unit Attached	332	1.97%
2 Units	137	0.81%
3 or 4 Units	308	1.83%
5 to 19 Units	603	3.58%
20 to 49 Units	230	1.37%
50 or More Units	76	0.45%
Mobile Home or Trailer	782	4.65%
Boat, RV, Van, etc.	13	0.08%

DESCRIPTION	DATA	%
2021 Est. Housing Units by Year Structure Built		
Housing Units Built 2014 or later	2,513	14.94%
Housing Units Built 2010 to 2014	926	5.50%
Housing Units Built 2000 to 2009	8,214	48.82%
Housing Units Built 1990 to 1999	1,169	6.95%
Housing Units Built 1980 to 1989	935	5.56%
Housing Units Built 1970 to 1979	905	5.38%
Housing Units Built 1960 to 1969	736	4.37%
Housing Units Built 1950 to 1959	797	4.74%
Housing Units Built 1940 to 1949	377	2.24%
Housing Unit Built 1939 or Earlier	253	1.50%
2021 Est. Median Year Structure Built		2004



ACKNOWLEDGMENTS

The observations, conclusions and recommendations contained in this study are solely those of The Retail Coach, LLC and should not be construed to represent the opinions of others, including its clients, or any other entity prior to such entity's express approval of this study.

All information furnished is from sources deemed reliable and is submitted subject to errors, omissions, change of terms and/or conditions.

Sources used in completing this study include: infoUSA™, Applied Geographic Solutions, Environics Analytics, ESRI, U.S. Census Bureau, Economy.com, Placer.AI, Spatial Insights Inc., Urban Land Institute, CensusViewer.com, International Council of Shopping Centers, and/or U.S. Bureau of Labor and Statistics. To better represent current data, where applicable, portions of estimated actual sales may be calculated using an average sales per square foot model. Mapping data is provided by Google, Nielsen, ESRI and/or Microsoft Corporation.

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Item 6.

BEAUMONT, CALIFORNIA

Community Psychographic Profile

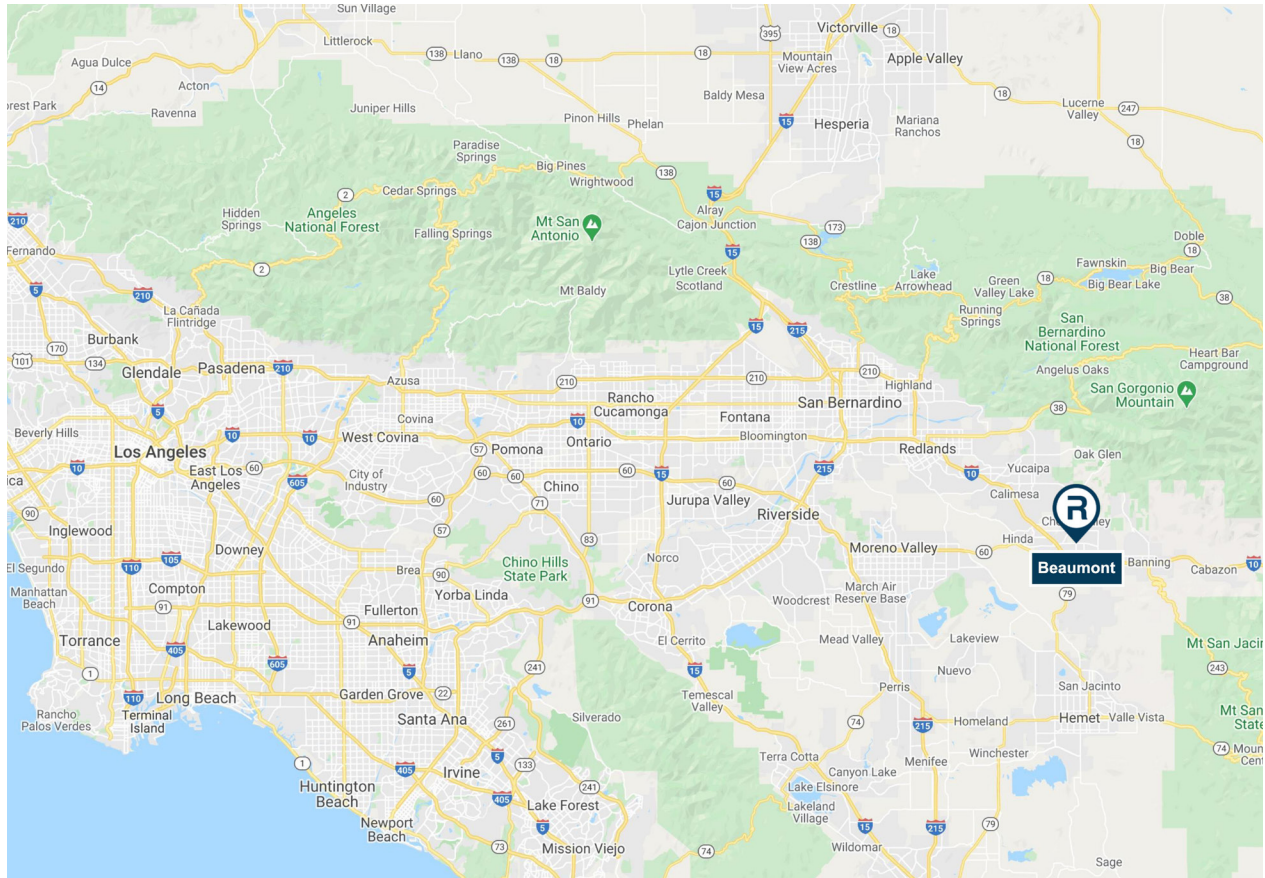
 The**Retail**Coach.

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Community



Prepared for:



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Retail:360® Process

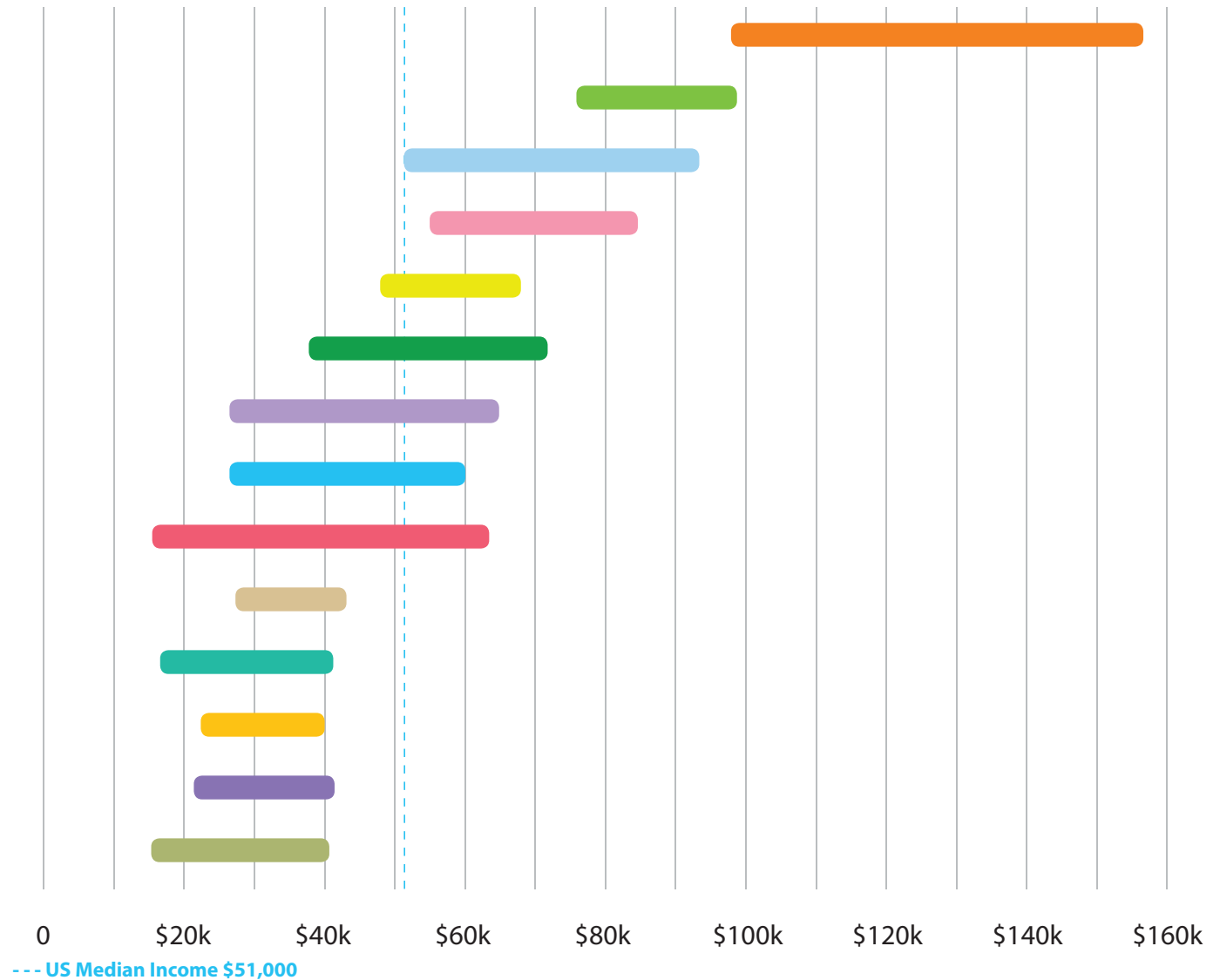
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Income Range of Lifemode Summary Groups

Beaumont, California



+ L1 AFFLUENT ESTATES

Established wealth — educated, well-traveled married couples

+ L2 UPSCALE AVENUES

Prosperous, married couples in higher density neighborhoods

+ L3 UPTOWN INDIVIDUALS

Younger, urban singles on the move

+ L4 FAMILY LANDSCAPES

Successful younger families in newer housing

+ L5 GENXURBAN

Gen X in middle age; families with fewer kids and a mortgage

+ L6 COZY COUNTRY

Empty nesters in bucolic settings

+ L7 ETHNIC ENCLAVES

Established diversity — young, Hispanic homeowners with families

+ L8 MIDDLE GROUND

Lifestyles of thirtysomethings

+ L9 SENIOR STYLES

Senior lifestyles reveal the effects of saving for retirement

+ L10 RUSTIC OUTPOSTS

Country life with older families, older homes

+ L11 MIDTOWN SINGLES

Millennials on the move; single, diverse, and urban

+ L12 HOMETOWN

Growing up and staying close to home; single householders

+ L13 NEXT WAVE

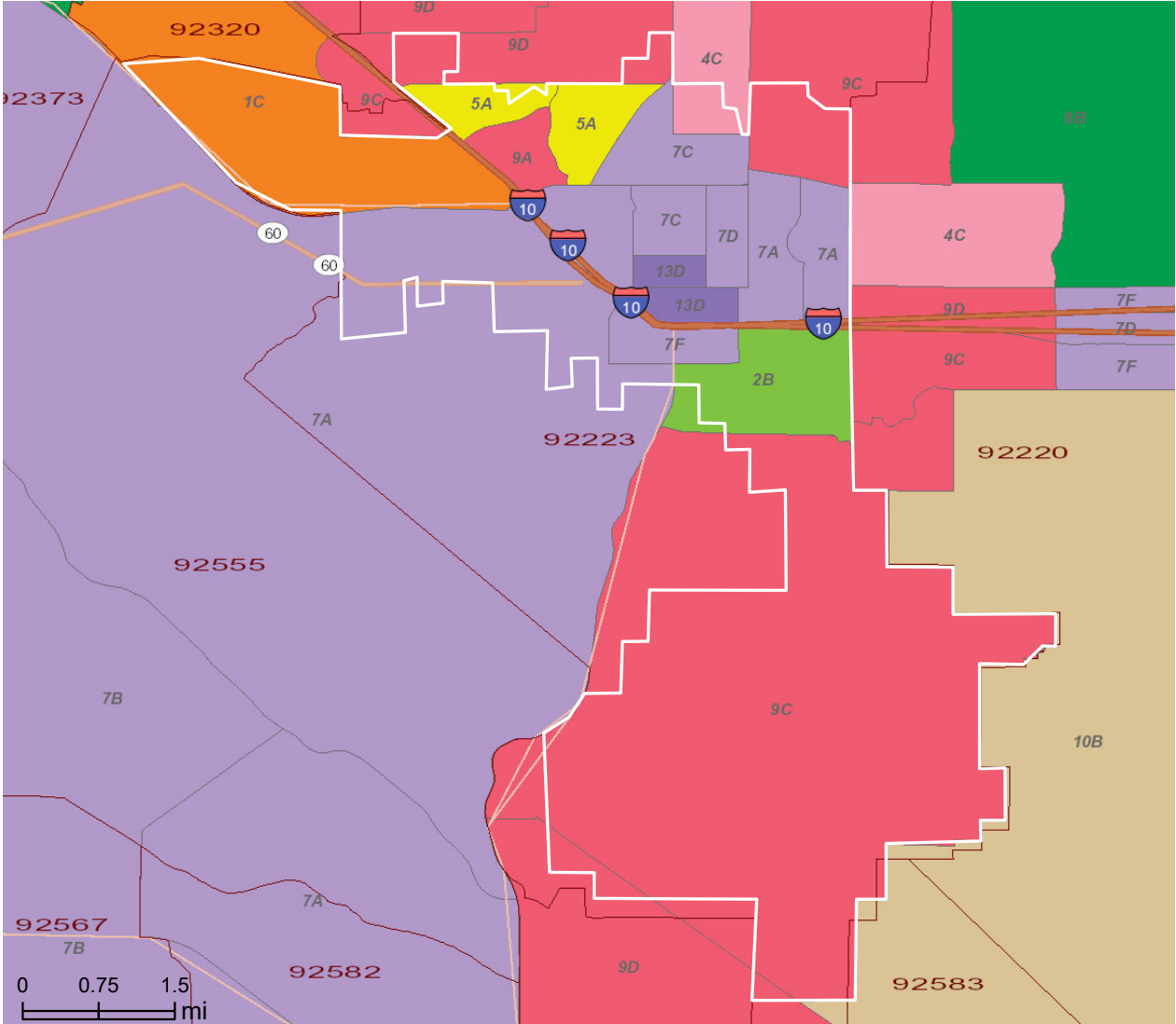
Urban denizens; young, diverse, hardworking families

+ L14 SCHOLARS AND PATRIOTS

College campuses and military neighborhoods

Community • Lifemode Summary Groups Map

Beaumont, California



+ L1 AFFLUENT ESTATES

Established wealth — educated, well-traveled married couples

+ L2 UPSCALE AVENUES

Prosperous, married couples in higher density neighborhoods

+ L3 UPTOWN INDIVIDUALS

Younger, urban singles on the move

+ L4 FAMILY LANDSCAPES

Successful younger families in newer housing

+ L5 GENXURBAN

Gen X in middle age; families with fewer kids and a mortgage

+ L6 COZY COUNTRY

Empty nesters in bucolic settings

+ L7 ETHNIC ENCLAVES

Established diversity — young, Hispanic homeowners with families

+ L8 MIDDLE GROUND

Lifestyles of thirtysomethings

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Community • Top Tapestry Segments

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	TAPESTRY SEGMENTATION	HOUSEHOLDS PERCENT	CUMULATIVE PERCENT	US HOUSEHOLDS PERCENT	CUMULATIVE PERCENT	INDEX
1	Up and Coming Families (7A)	21.6%	21.6%	2.5%	2.5%	848
2	Boomburbs (1C)	15.7%	37.3%	1.8%	4.3%	889
3	Pleasantville (2B)	15.7%	53.1%	2.1%	6.4%	732
4	The Elders (9C)	9.6%	62.6%	0.7%	7.1%	1,282
5	Comfortable Empty Nesters (5A)	9.4%	72.0%	2.4%	9.5%	382
	Subtotal	72.0%		9.5%		
6	American Dreamers (7C)	8.5%	80.5%	1.5%	11.0%	580
7	Fresh Ambitions (13D)	6.1%	86.6%	0.6%	11.6%	969
8	Barrios Urbanos (7D)	5.1%	91.7%	1.0%	12.6%	488
9	Middleburg (4C)	4.3%	96.0%	2.9%	15.5%	146
10	Silver & Gold (9A)	3.4%	99.4%	0.8%	16.3%	432
	Subtotal	27.4%		6.8%		
11	Southwestern Families (7F)	0.5%	99.9%	0.8%	17.1%	63
12	Senior Escapes (9D)	0.1%	100.0%	0.9%	18.0%	11
	Subtotal	0.6%		1.7%		
	Total	100.0%		18.3%		548

7A LifeMode Group: Ethnic Enclaves

Up and Coming Families

US Households: 2,901,200
Average Household Size: 3.12

Median Age: 31.4
Median Household Income: \$72,000

WHO ARE WE?

Up and Coming Families is a market in transition—residents are younger and more mobile and ethnically diverse than the previous generation. They are ambitious, working hard to get ahead, and willing to take some risks to achieve their goals. The recession has impacted their financial well-being, but they are optimistic. Their homes are new; their families are young. And this is one of the fastest-growing markets in the country.

OUR NEIGHBORHOOD

- New suburban periphery: new families in new housing subdivisions.
- Building began in the housing boom of the 2000s and continues in this fast-growing market.
- Single-family homes with a median value of \$194,400 and a lower vacancy rate.
- The price of affordable housing: longer commute times (Index 217).

SOCIOECONOMIC TRAITS

- Education: 67% have some college education or degree(s).
- Hard-working labor force with a participation rate of 71% (Index 114) and low unemployment at 4.6% (Index 84).
- Most households (61%) have 2 or more workers.
- Careful shoppers, aware of prices, willing to shop around for the best deals and open to influence by others' opinions.
- Seek the latest and best in technology.
- Young families still feathering the nest and establishing their style.

7A LifeMode Group: Ethnic Enclaves

Up and Coming Families

AGE BY SEX (Esri data)

Median Age: **31.4** US: 38.2

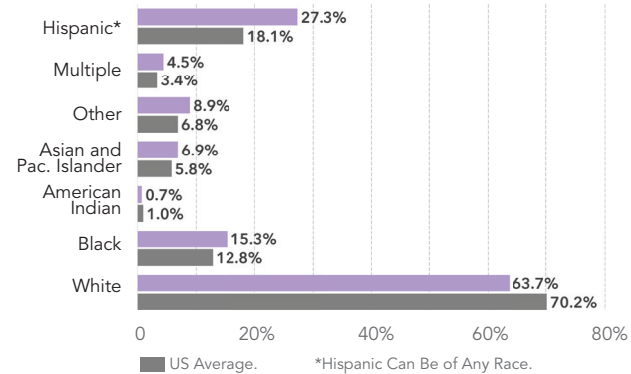
■ Indicates US



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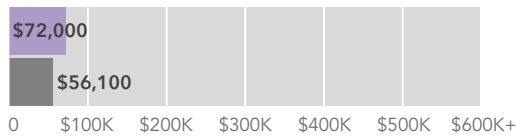
Diversity Index: **73.9** US: 64.0



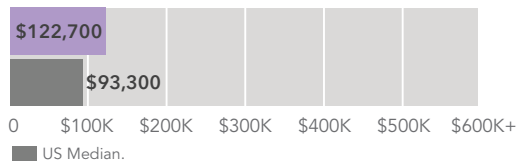
INCOME AND NET WORTH

Net worth measures total household assets (homes, vehicles, investments, etc.) less any debts, secured (e.g., mortgages) or unsecured (credit cards). Household income and net worth are estimated by Esri.

Median Household Income



Median Net Worth



HOUSING

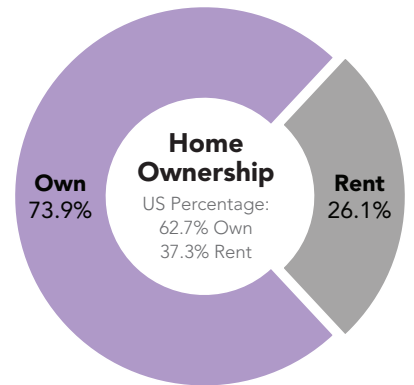
Median home value is displayed for markets that are primarily owner occupied; average rent is shown for renter-occupied markets. Tenure and home value are estimated by Esri. Housing type and average rent are from the Census Bureau's American Community Survey.



Typical Housing:
Single Family

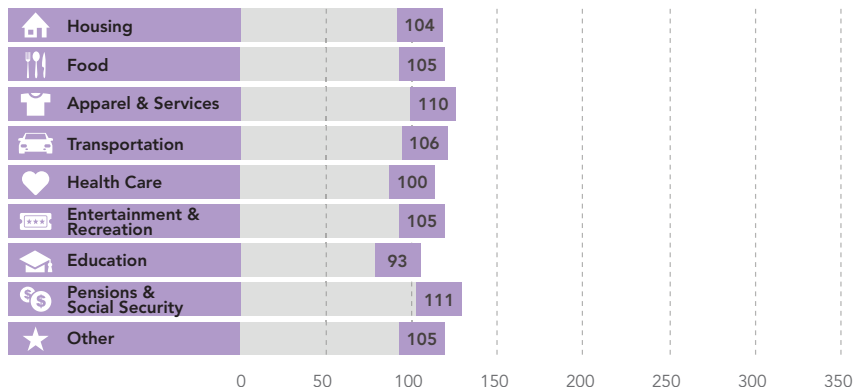
Median Value:
\$194,400

US Median: \$207,300



AVERAGE HOUSEHOLD BUDGET INDEX

The index compares the average amount spent in this market's household budgets for housing, food, apparel, etc., to the average amount spent by all US households. An index of 100 is average. An index of 120 shows that average spending by consumers in this market is 20 percent above the national average. Consumer expenditures are estimated by Esri.



7A LifeMode Group: Ethnic Enclaves

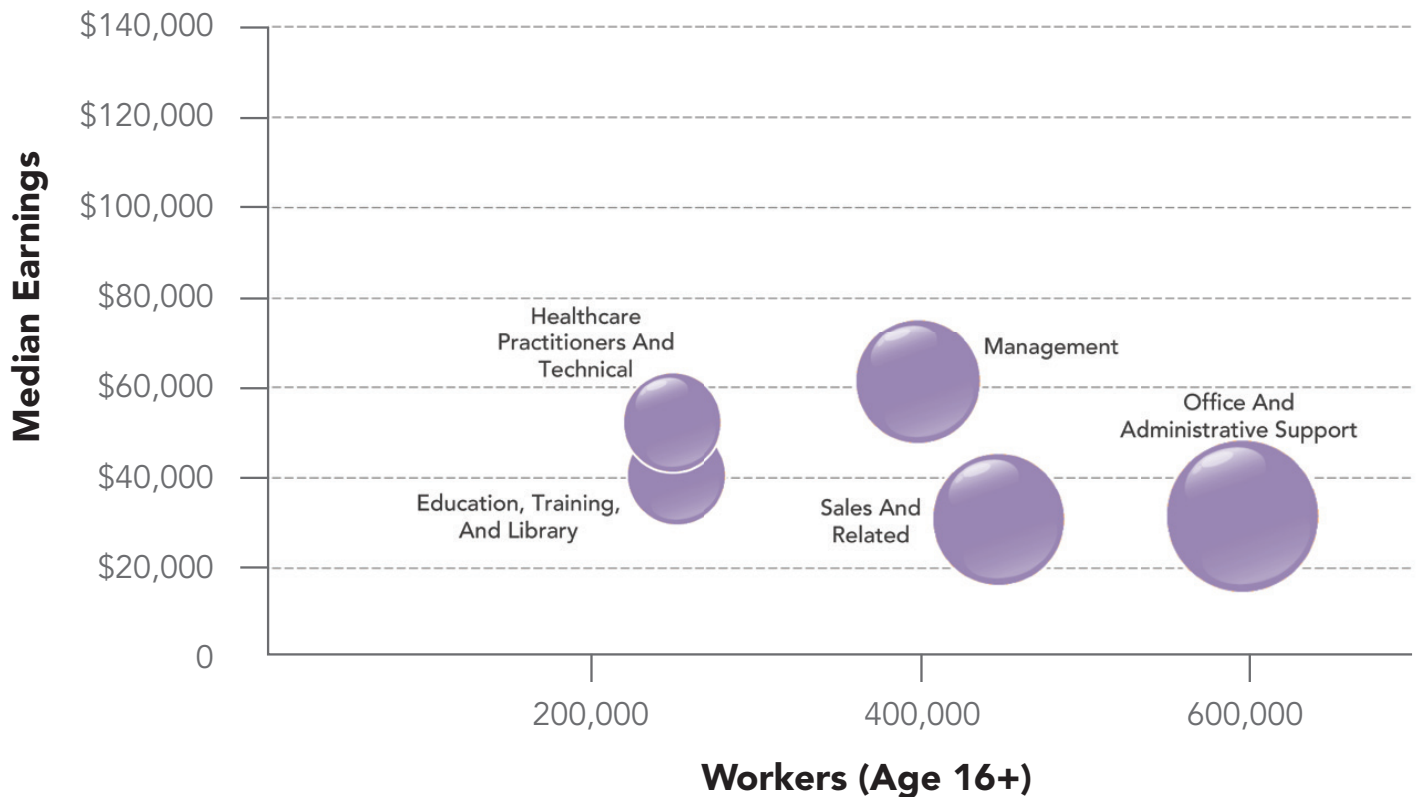
Up and Coming Families

Market Profile

- Rely on the Internet for entertainment, information, shopping, and banking.
- Prefer imported SUVs or compact cars, late models.
- Carry debt from credit card balances to student loans and mortgages, but also maintain retirement plans and make charitable contributions.
- Busy with work and family; use home and landscaping services to save time.
- Find leisure in family activities, movies at home, trips to theme parks or the zoo, and sports; from golfing, weight lifting, to taking a jog or run.

OCCUPATION BY EARNINGS

The five occupations with the highest number of workers in the market are displayed by median earnings. Data from the Census Bureau's American Community Survey.



1C LifeMode Group: Affluent Estates Boomburbs

US Households: 2,004,400
Average Household Size: 3.25

Median Age: 34.0
Median Household Income: \$113,400

WHO ARE WE?

This is the new growth market, with a profile similar to the original: young professionals with families that have opted to trade up to the newest housing in the suburbs. The original Boomburbs neighborhoods began growing in the 1990s and continued through the peak of the housing boom. Most of those neighborhoods are fully developed now. This is an affluent market but with a higher proportion of mortgages. Rapid growth still distinguishes the Boomburbs neighborhoods, although the boom is more subdued now than it was 10 years ago. So is the housing market. Residents are well-educated professionals with a running start on prosperity.

OUR NEIGHBORHOOD

- Growth markets are in the suburban periphery of large metropolitan areas.
- Young families are married with children (Index 220); average household size is 3.25.
- Home ownership is 84% (Index 134), with the highest rate of mortgages, 71.5% (Index 173).
- Primarily single-family homes, in new neighborhoods, 66% built since 2000 (Index 441).
- Median home value is \$350,000 (Index 169).
- Lower housing vacancy rate at 3.7%.
- The cost of affordable new housing comes at the expense of one of the longest commutes to work, over 30 minutes average, including a disproportionate number (33.6%) commuting across county lines (Index 141).

SOCIOECONOMIC TRAITS

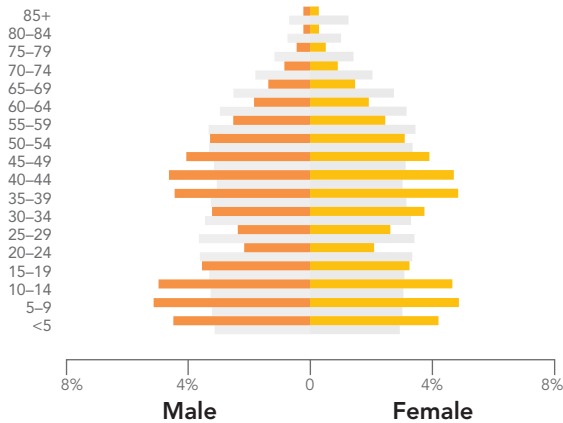
- Well educated young professionals, 55% are college graduates (Index 178).
- Unemployment is low at 3.3% (Index 61); high labor force participation at 71.3% (Index 114); most households have more than two workers (Index 124).
- Longer commute times from the suburban growth corridors have created more home workers (Index 156).
- They are well connected: own the latest devices and understand how to use them efficiently; biggest complaints—too many devices and too many intrusions on personal time.
- Financial planning is well under way for these professionals.

1C LifeMode Group: Affluent Estates Boomburbs

AGE BY SEX (Esri data)

Median Age: 34.0 US: 38.2

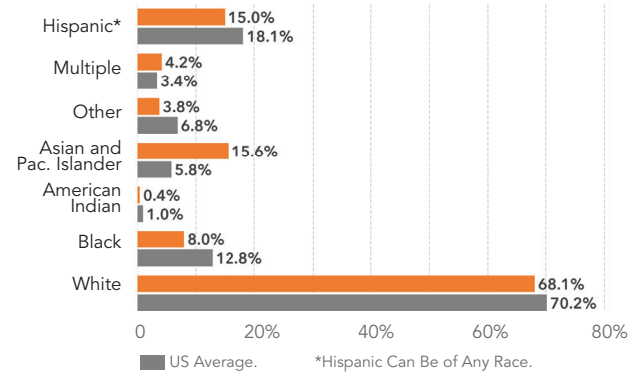
■ Indicates US



RACE AND ETHNICITY (Esri data)

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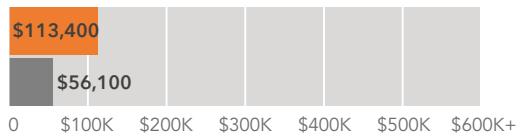
Diversity Index: 63.2 US: 64.0



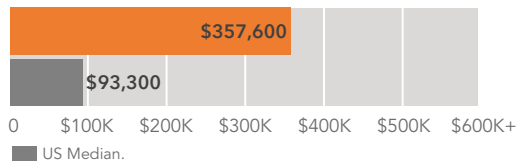
INCOME AND NET WORTH

Net worth measures total household assets (homes, vehicles, investments, etc.) less any debts, secured (e.g., mortgages) or unsecured (credit cards). Household income and net worth are estimated by Esri.

Median Household Income



Median Net Worth



HOUSING

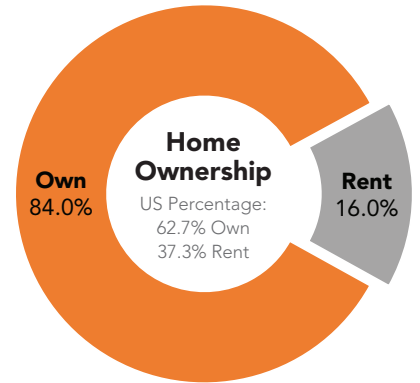
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Typical Housing:
Single Family

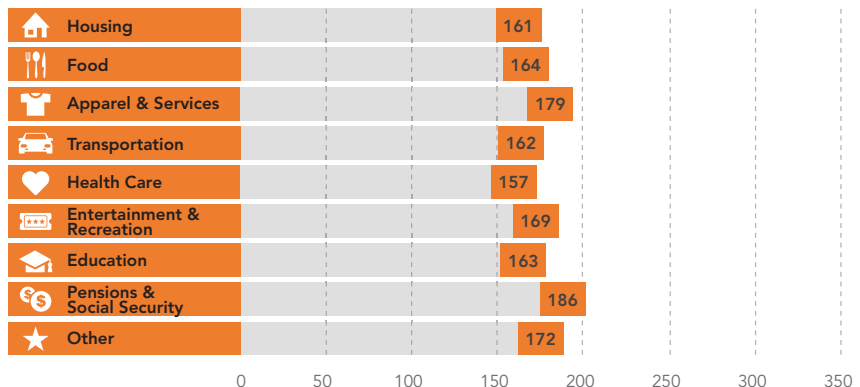
Median Value:
\$350,000

US Median: \$207,300



AVERAGE HOUSEHOLD BUDGET INDEX

The index compares the average amount spent in this market's household budgets for housing, food, apparel, etc., to the average amount spent by all US households. An index of 100 is average. An index of 120 shows that average spending by consumers in this market is 20 percent above the national average. Consumer expenditures are estimated by Esri.



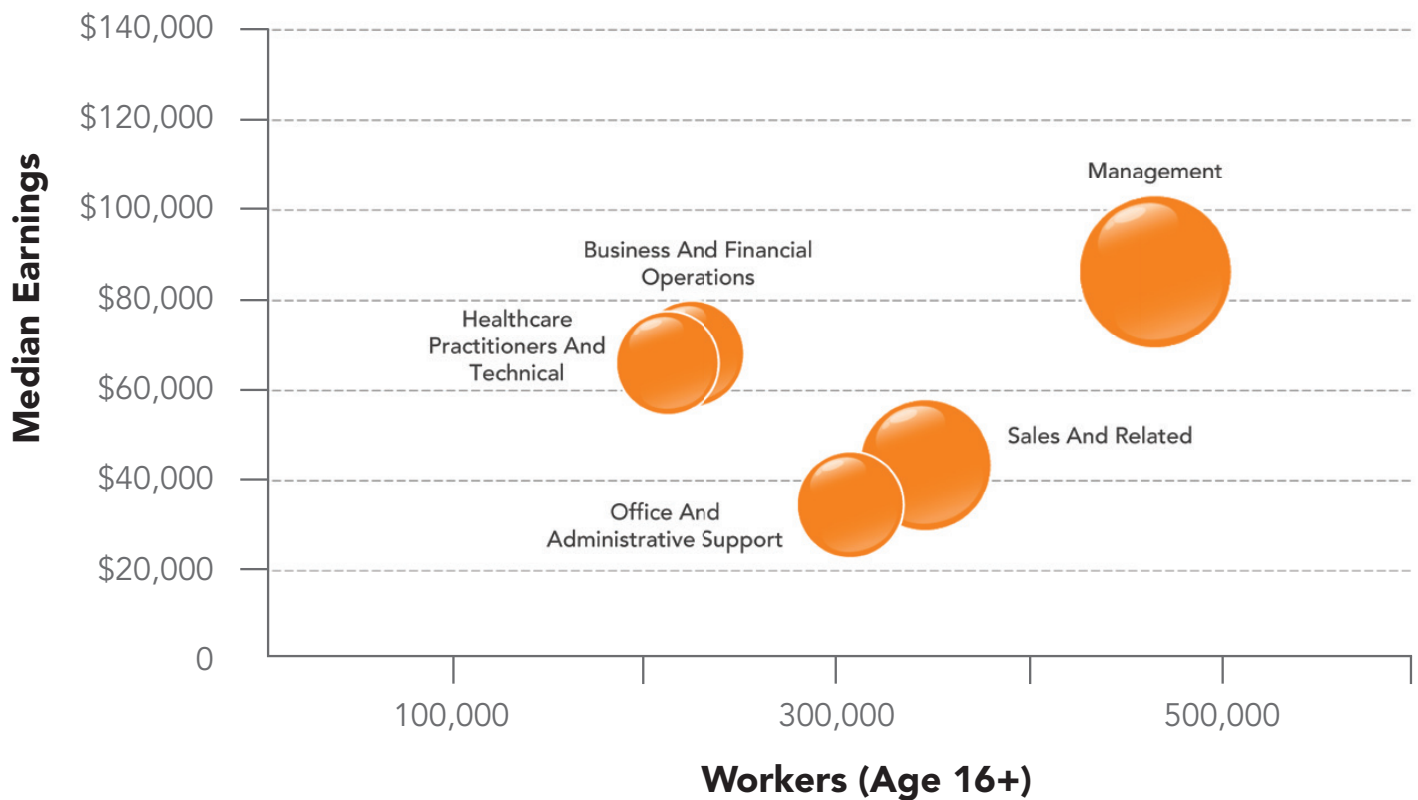
1C LifeMode Group: Affluent Estates Boomburbs

Market Profile

- Boomburbs residents prefer late model imports, primarily SUVs, and also luxury cars and minivans.
- This is one of the top markets for the latest in technology, from smartphones to tablets to Internet connectable televisions.
- Style matters in the Boomburbs, from personal appearance to their homes. These consumers are still furnishing their new homes and already remodeling.
- They like to garden but more often contract for home services.
- Physical fitness is a priority, including club memberships and home equipment.
- Leisure includes a range of activities from sports (hiking, bicycling, swimming, golf) to visits to theme parks or water parks.
- Residents are generous supporters of charitable organizations.

OCCUPATION BY EARNINGS

The five occupations with the highest number of workers in the market are displayed by median earnings. Data from the Census Bureau's American Community Survey.



2B LifeMode Group: Upscale Avenues Pleasantville

US Households: 2,718,100
Average Household Size: 2.88

Median Age: 42.6
Median Household Income: \$92,900

WHO ARE WE?

Prosperous domesticity best describes the settled denizens of Pleasantville. Situated principally in older housing in suburban areas in the Northeast (especially in New York and New Jersey) and secondarily in the West (especially in California), these slightly older couples move less than any other market. Many couples have already transitioned to empty nesters; many are still home to adult children. Families own older, single-family homes and maintain their standard of living with dual incomes. These consumers have higher incomes and home values and much higher net worth (Index 364). Older homes require upkeep; home improvement and remodeling projects are a priority—preferably done by contractors. Residents spend their spare time participating in a variety of sports or watching movies. They shop online and in a variety of stores, from upscale to discount, and use the Internet largely for financial purposes.

OUR NEIGHBORHOOD

- Suburban periphery of large metropolitan areas, primarily in Middle Atlantic or Pacific states.
- Most homes owned (and mortgaged) (Index 146).
- Households composed of older married-couple families, more without children under 18, but many with children over 18 years (Index 141).
- Older, single-family homes: two-thirds built before 1970, close to half from 1950 to 1969.
- One of the lowest percentages of vacant housing units at 4.5% (Index 39).
- Suburban households with 3 or more vehicles and a longer travel time to work (Index 132).

SOCIOECONOMIC TRAITS

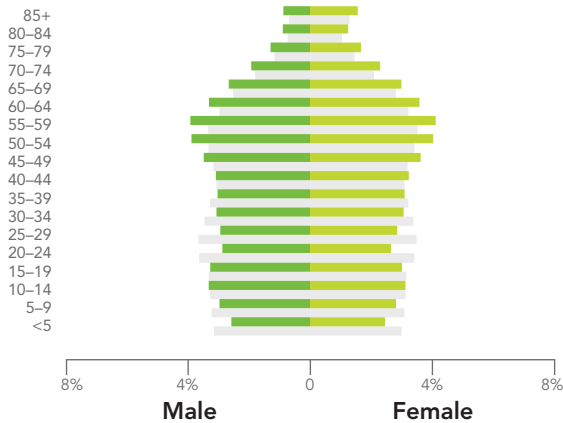
- Education: 66% college educated, 37% with a bachelor's degree or higher.
- Low unemployment at 4.6%; higher labor force participation rate at 67% (Index 107); higher proportion of HHs with 2 or more workers (Index 118).
- Many professionals in finance, information/technology, education, or management.
- Median household income denotes affluence, with income primarily from salaries, but also from investments (Index 130) or Social Security (Index 106) and retirement income (Index 122).
- Not cost-conscious, these consumers willing to spend more for quality and brands they like.
- Prefer fashion that is classic and timeless as opposed to trendy.
- Use all types of media equally (newspapers, magazines, radio, Internet, TV).

2B LifeMode Group: Upscale Avenues Pleasantville

AGE BY SEX (Esri data)

Median Age: **42.6** US: 38.2

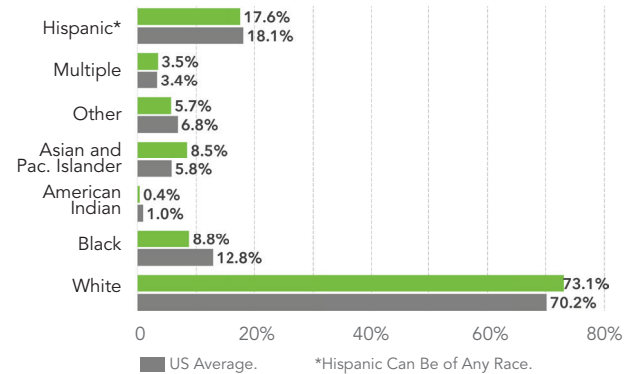
■ Indicates US



RACE AND ETHNICITY (Esri data)

The Diversity Index summarizes racial and ethnic diversity. The index shows the likelihood that two persons, chosen at random from the same area, belong to different race or ethnic groups. The index ranges from 0 (no diversity) to 100 (complete diversity).

Diversity Index: **61.0** US: 64.0



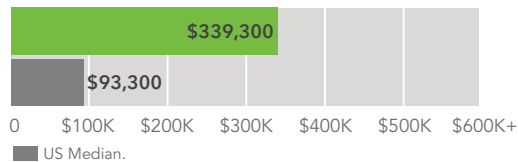
INCOME AND NET WORTH

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Median Household Income



Median Net Worth



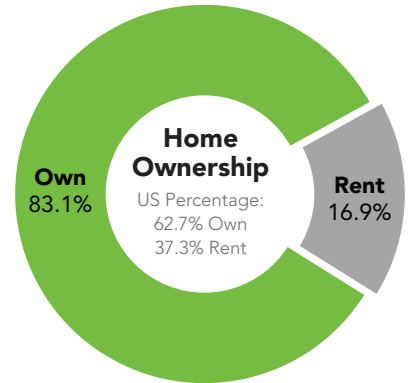
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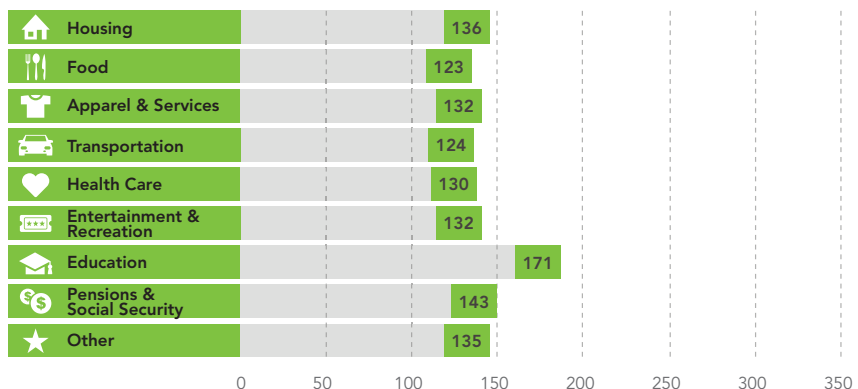
Typical Housing:
Single Family

Median Value:
\$382,000
US Median: \$207,300



AVERAGE HOUSEHOLD BUDGET INDEX

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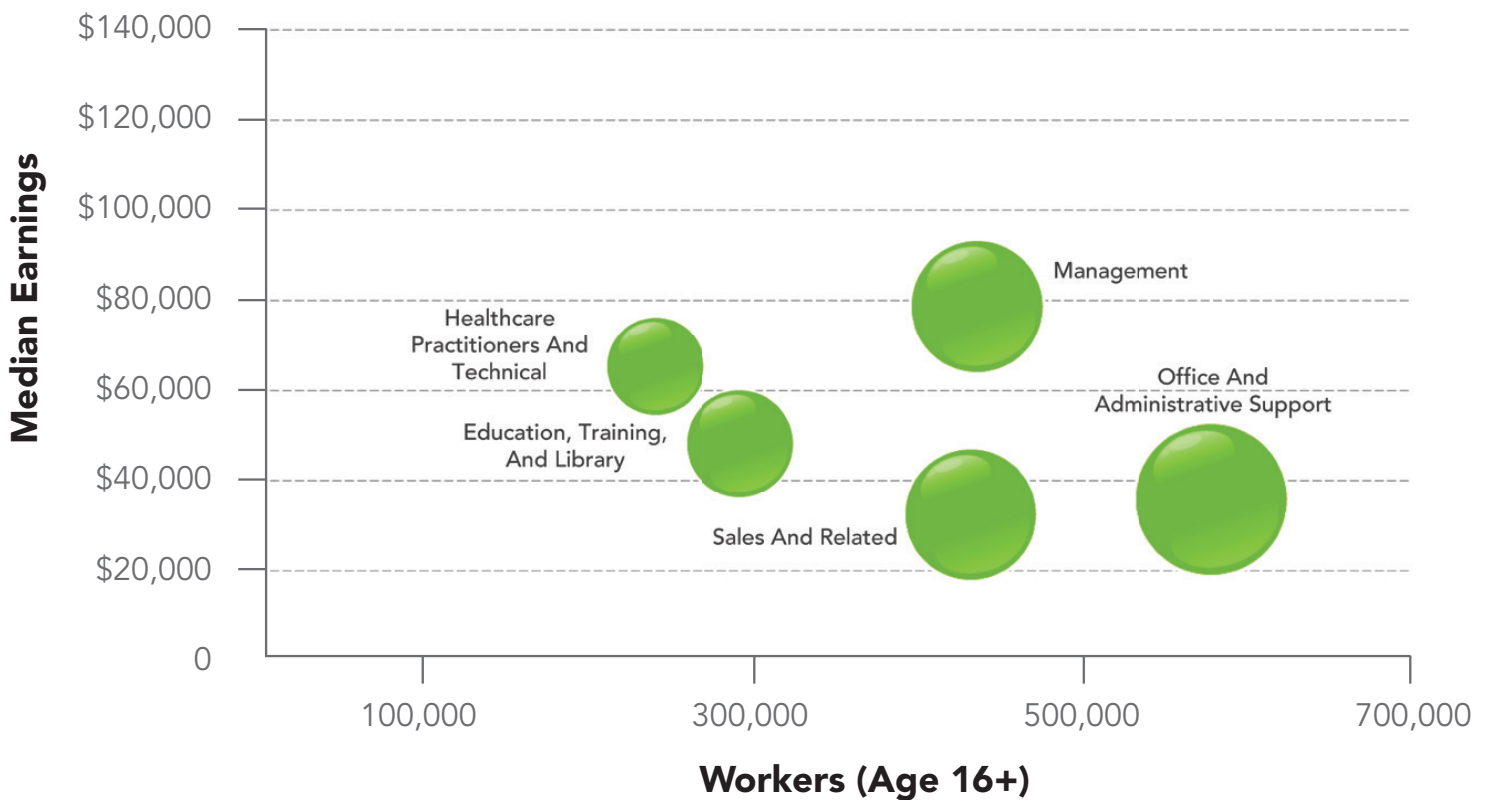
2B LifeMode Group: Upscale Avenues Pleasantville

Market Profile

- Prefer imported SUVs, serviced by a gas station or car dealer.
- Invest in conservative securities and contribute to charities.
- Work on home improvement and remodeling projects, but also hire contractors.
- Have bundled services (TV/Internet/phone).
- Access the Internet via fiber optics or cable modem, on a newer computer, to pay bills, make purchases, and track investments.
- Subscribe to premium channels (HBO, Showtime, or Starz) and use video-on-demand to watch TV shows and movies.
- Enjoy outdoor gardening, going to the beach, visiting theme parks, frequenting museums, and attending rock concerts.

OCCUPATION BY EARNINGS

The five occupations with the highest number of workers in the market are displayed by median earnings. Data from the Census Bureau's American Community Survey.



9C LifeMode Group: Senior Styles

The Elders

US Households: 910,100
Average Household Size: 1.68

Median Age: 72.3
Median Household Income: \$42,800

WHO ARE WE?

With a median age of 72.3 years, this is Tapestry Segmentation's oldest market. The Elders residents favor communities designed for senior or assisted living, primarily in warmer climates with seasonal populations. Most of these householders are homeowners, although their housing varies from mobile homes to single-family residences to high-rise apartments. These seniors are informed, independent, and involved.

OUR NEIGHBORHOOD

- Suburban periphery of metropolitan areas, primarily in the warmer climates of Florida or Arizona.
- 45% married couples without children; 44% single households; average household size, 1.68.
- Owner-occupied housing units; median home value of \$180,000 (Index 87).
- Housing mix of single-family homes (44%), town homes, and high-density apartment buildings in neighborhoods built from 1970 through 1989.
- Vacancy rates higher at 24%, due to the number of seasonal or vacation homes.
- Almost 60% of the population in group quarters on nursing home facilities.

SOCIOECONOMIC TRAITS

- Predominantly retirees, The Elders has a low labor force participation rate of 22.4%.
- Those who are still in the labor force tend to be self-employed or part-timers, commonly in real estate, retail or the arts.
- Their income derives primarily from Social Security (80% of the households), retirement, or investments (almost half of the households). Less than 30% of the households draw wage/salary income.
- Median household income is lower than the US (Index 76), but median net worth is much higher (Index 269).
- These consumers have definite opinions about their spending, focusing on price, but not at the expense of quality. They prefer to use coupons and buy American and environmentally safe products.
- Cell phones are common but primarily used to make/receive calls.

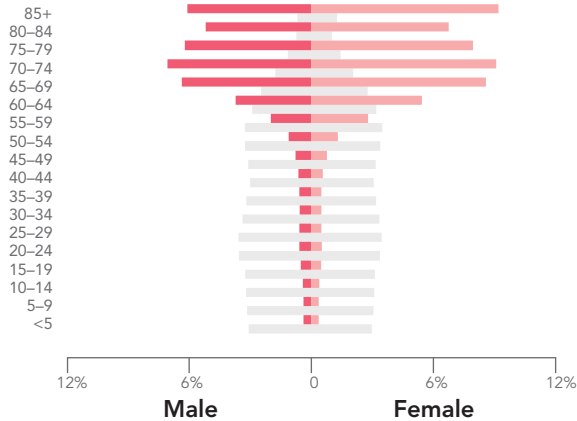
9C LifeMode Group: Senior Styles

The Elders

AGE BY SEX (Esri data)

Median Age: 72.3 US: 38.2

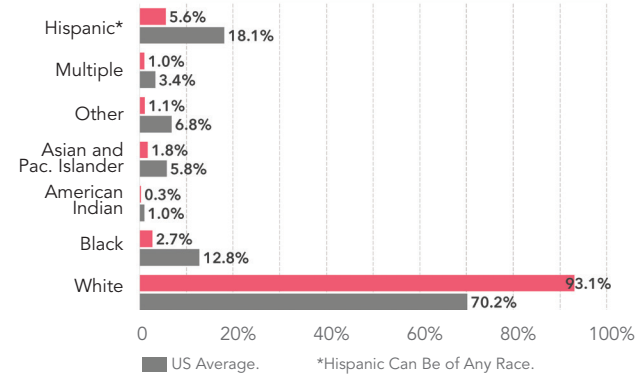
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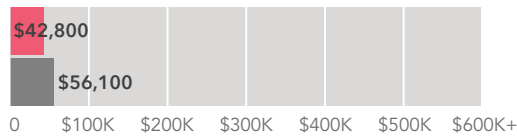
Diversity Index: 22.4 US: 64.0



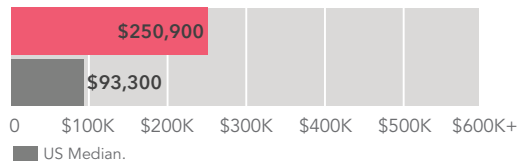
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Median Household Income



Median Net Worth



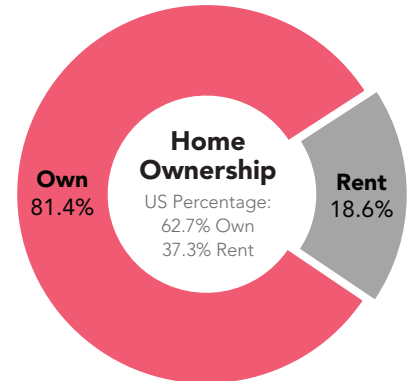
HOUSING

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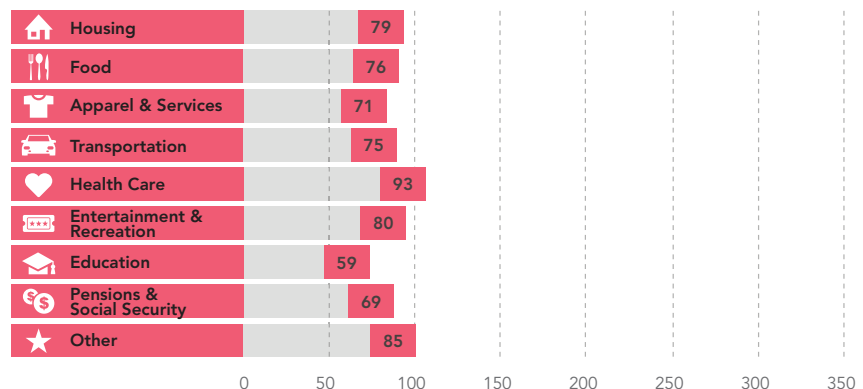
Typical Housing:
Single Family, High-Rises,
Mobile Homes/Seasonal

Median Value:
\$180,000



AVERAGE HOUSEHOLD BUDGET INDEX

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9C LifeMode Group: Senior Styles

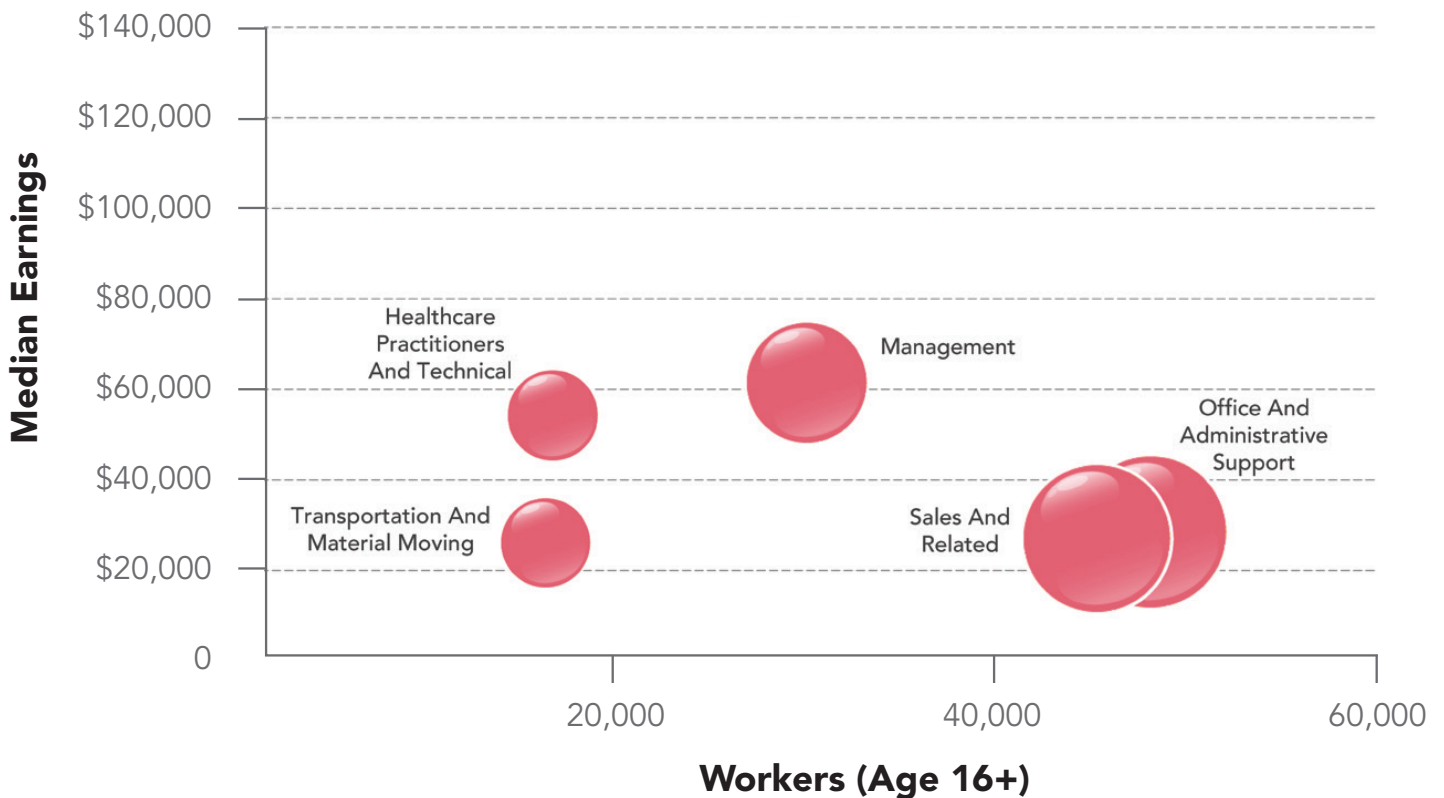
The Elders

Market Profile

- Vehicles are just a means of transportation, but their first choice is luxury sedans. Most of their cars are older (5+ years).
- They are connected via modems (cable or dial-up) on older PCs or notebooks. However, banking is commonly done in person; shopping is by phone or in person.
- Shopping includes apparel and exercise equipment.
- They are avid readers, with audio books and e-readers. Newspapers and magazines are staples for news and entertainment. Cable TV is also a must, primarily watching news or movie channels, but also golf, weather, and history channels.
- Residents are sociable seniors, partial to a variety of clubs and organizations and generous with their time and support.

OCCUPATION BY EARNINGS

The five occupations with the highest number of workers in the market are displayed by median earnings. Data from the Census Bureau's American Community Survey.



5A LifeMode Group: GenXurban Comfortable Empty Nesters

US Households: 3,024,200
Average Household Size: 2.52

Median Age: 48.0
Median Household Income: \$75,00

WHO ARE WE?

Residents in this large, growing segment are older, with nearly half of all householders aged 55 or older; many still live in the suburbs where they grew up. Most are professionals working in government, health care, or manufacturing. These Baby Boomers are earning a comfortable living and benefitting from years of prudent investing and saving. Their net worth is well above average (Index 314). Many are enjoying the transition from child rearing to retirement. They value their health and financial well-being.

OUR NEIGHBORHOOD

- Married couples, some with children, but most without (Index 149).
- Average household size slightly higher at 2.52.
- Found throughout the suburbs and small towns of metropolitan areas, where most residents own and live in single-family detached homes (Index 142).
- Most homes built between 1950 and 1990 (Index 131).
- Households generally have one or two vehicles.

SOCIOECONOMIC TRAITS

- Education: 36% college graduates; nearly 68% with some college education.
- Low unemployment at 4%; average labor force participation at 61%.
- Most households income from wages or salaries, but a third also draw income from investments (Index 150) and retirement (Index 159).
- Comfortable Empty Nesters residents physically and financially active.
- Prefer eating at home instead of dining out.
- Home maintenance a priority among these homeowners.

5A LifeMode Group: GenXurban Comfortable Empty Nesters

AGE BY SEX (Esri data)

Median Age: **48.0** US: 38.2

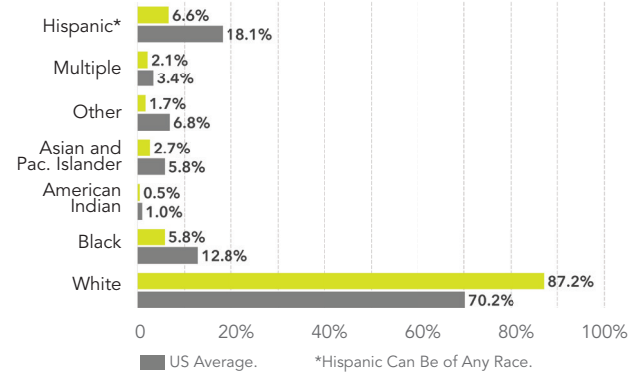
■ Indicates US



RACE AND ETHNICITY (Esri data)

The Diversity Index summarizes racial and ethnic diversity. The index shows the likelihood that two persons, chosen at random from the same area, belong to different race or ethnic groups. The index ranges from 0 (no diversity) to 100 (complete diversity).

Diversity Index: **33.0** US: 64.0



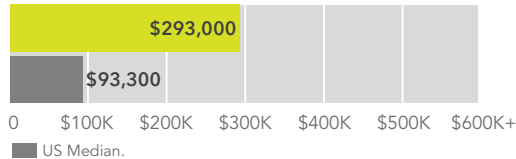
INCOME AND NET WORTH

Net worth measures total household assets (homes, vehicles, investments, etc.) less any debts, secured (e.g., mortgages) or unsecured (credit cards). Household income and net worth are estimated by Esri.

Median Household Income



Median Net Worth



HOUSING

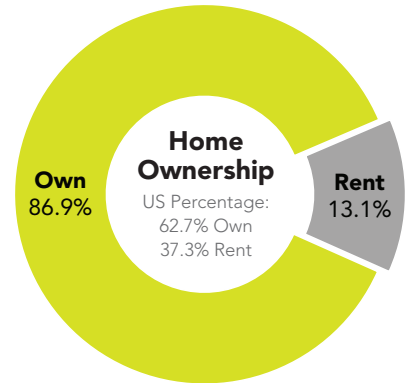
Median home value is displayed for markets that are primarily owner occupied; average rent is shown for renter-occupied markets. Tenure and home value are estimated by Esri. Housing type and average rent are from the Census Bureau's American Community Survey.



Typical Housing:
Single Family

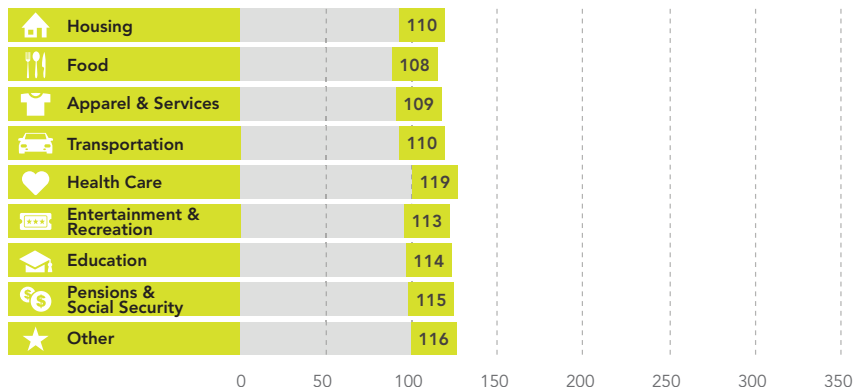
Median Value:
\$203,400

US Median: \$207,300



AVERAGE HOUSEHOLD BUDGET INDEX

The index compares the average amount spent in this market's household budgets for housing, food, apparel, etc., to the average amount spent by all US households. An index of 100 is average. An index of 120 shows that average spending by consumers in this market is 20 percent above the national average. Consumer expenditures are estimated by Esri.



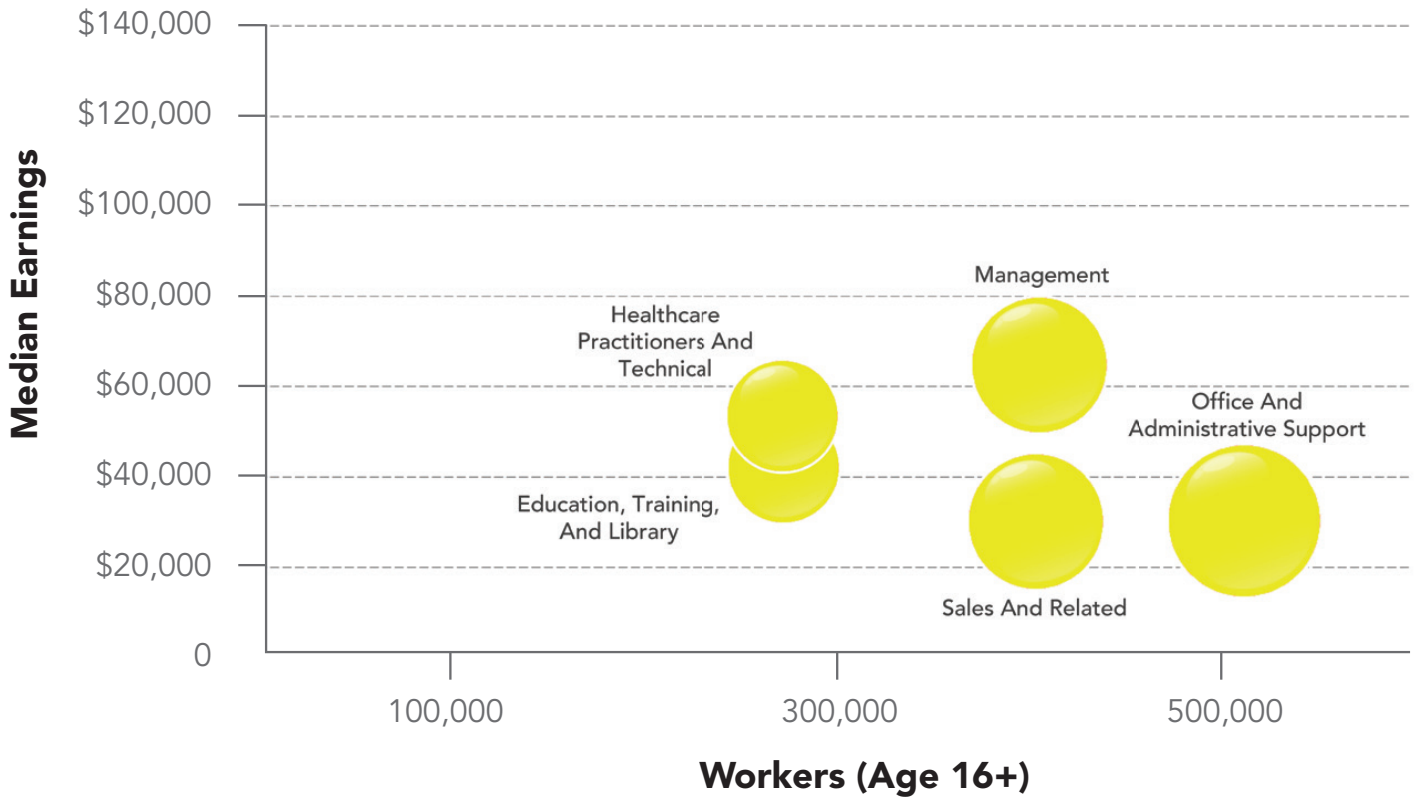
5A LifeMode Group: GenXurban Comfortable Empty Nesters

Market Profile

- Residents enjoy listening to sports radio or watching sports on television.
- Physically active, they play golf, ski, ride bicycles, and work out regularly.
- Spending a lot of time online isn't a priority, so most own older home computers.
- Financial portfolio includes stocks, certificates of deposit, mutual funds, and real estate.

OCCUPATION BY EARNINGS

The five occupations with the highest number of workers in the market are displayed by median earnings. Data from the Census Bureau's American Community Survey.





ACKNOWLEDGMENTS

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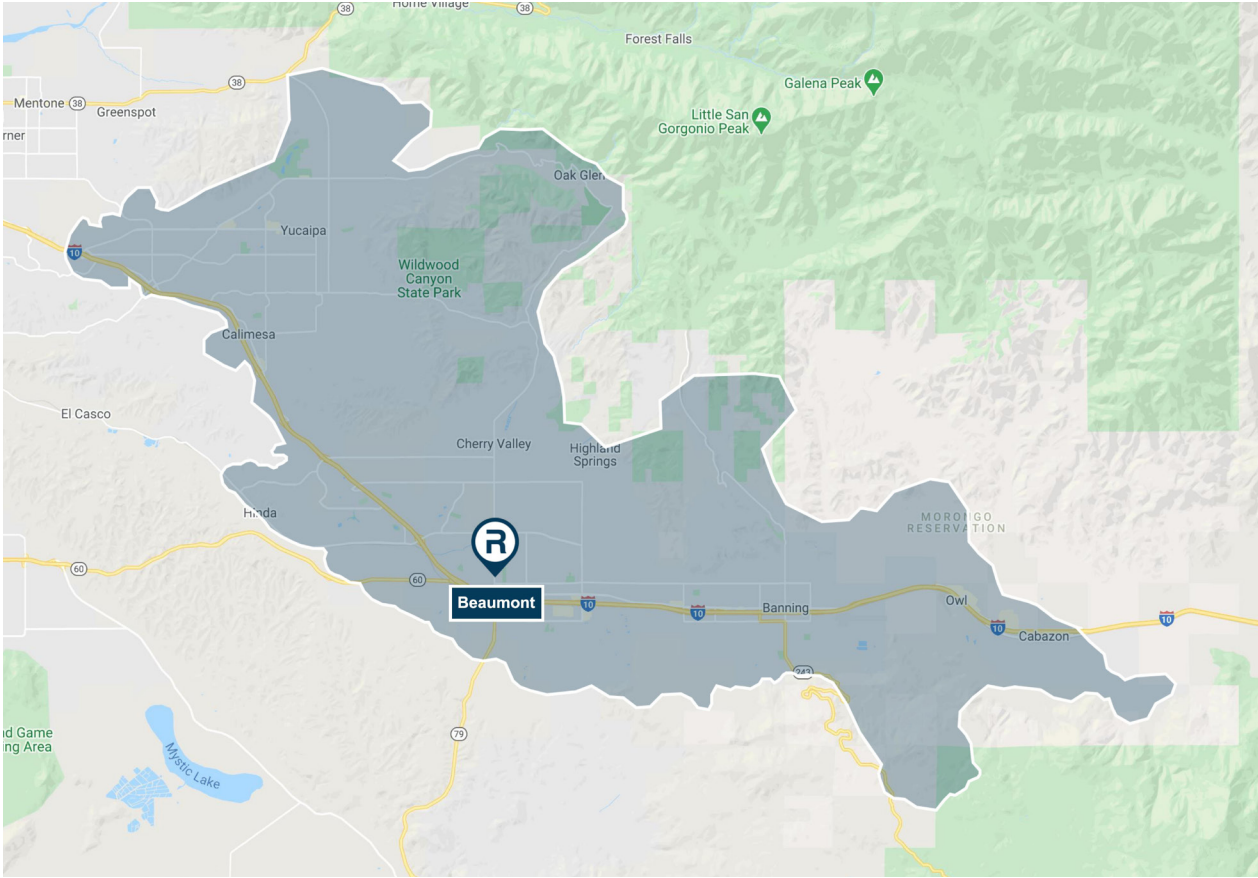


BEAUMONT, CALIFORNIA

Primary Retail Trade Area Demographic Profile



Primary Retail Trade Area



Prepared for:



City of Beaumont, CA
Kyle Warsinski
Economic Development Manager

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About The Retail Coach

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Retail:360® Process

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Primary Retail Trade Area • Demographic Profile

Beaumont, California

Item 6.

DESCRIPTION	DATA	%
Population		
2026 Projection	162,812	
2021 Estimate	155,989	
2010 Census	137,089	
2000 Census	93,345	
Growth 2021 - 2026		4.37%
Growth 2010 - 2021		13.79%
Growth 2000 - 2010		46.86%
2021 Est. Population by Single-Classification Race	155,989	
White Alone	103,409	66.29%
Black or African American Alone	7,763	4.98%
Amer. Indian and Alaska Native Alone	2,702	1.73%
Asian Alone	8,867	5.68%
Native Hawaiian and Other Pacific Island Alone	343	0.22%
Some Other Race Alone	24,135	15.47%
Two or More Races	8,770	5.62%
2021 Est. Population by Hispanic or Latino Origin	155,989	
Not Hispanic or Latino	92,113	59.05%
Hispanic or Latino	63,876	40.95%
Mexican	55,386	86.71%
Puerto Rican	841	1.32%
Cuban	385	0.60%
All Other Hispanic or Latino	7,264	11.37%
2021 Est. Hisp. or Latino Pop by Single-Class. Race	63,876	
White Alone	33,221	52.01%
Black or African American Alone	531	0.83%
American Indian and Alaska Native Alone	1,209	1.89%
Asian Alone	324	0.51%
Native Hawaiian and Other Pacific Islander Alone	44	0.07%
Some Other Race Alone	23,931	37.47%
Two or More Races	4,615	7.23%
2021 Est. Pop by Race, Asian Alone, by Category	8,867	
Chinese, except Taiwanese	1,076	12.14%
Filipino	3,330	37.56%
Japanese	434	4.90%
Asian Indian	671	7.57%
Korean	917	10.34%
Vietnamese	313	3.53%
Cambodian	159	1.79%
Hmong	692	7.80%
Laotian	184	2.08%
Thai	233	2.63%
All Other Asian Races Including 2+ Category	860	9.70%

DESCRIPTION	DATA	%
2021 Est. Population by Ancestry	155,989	
Arab	449	0.29%
Czech	291	0.19%
Danish	680	0.44%
Dutch	2,100	1.35%
English	9,357	6.00%
French (except Basque)	2,846	1.83%
French Canadian	786	0.50%
German	14,826	9.51%
Greek	284	0.18%
Hungarian	799	0.51%
Irish	10,633	6.82%
Italian	5,355	3.43%
Lithuanian	87	0.06%
United States or American	5,198	3.33%
Norwegian	1,865	1.20%
Polish	1,805	1.16%
Portuguese	552	0.35%
Russian	858	0.55%
Scottish	2,198	1.41%
Scotch-Irish	896	0.57%
Slovak	55	0.04%
Subsaharan African	987	0.63%
Swedish	1,503	0.96%
Swiss	191	0.12%
Ukrainian	201	0.13%
Welsh	493	0.32%
West Indian (except Hisp. groups)	245	0.16%
Other ancestries	73,025	46.81%
Ancestry Unclassified	17,424	11.17%
2021 Est. Pop Age 5+ by Language Spoken At Home		
Speak Only English at Home	101,782	69.68%
Speak Asian/Pacific Island Language at Home	4,234	2.90%
Speak IndoEuropean Language at Home	2,666	1.83%
Speak Spanish at Home	36,782	25.18%
Speak Other Language at Home	617	0.42%

Primary Retail Trade Area • Demographic Profile

Beaumont, California

Item 6.

DESCRIPTION	DATA	%
2021 Est. Population by Age	155,989	
Age 0 - 4	9,907	6.35%
Age 5 - 9	9,862	6.32%
Age 10 - 14	10,262	6.58%
Age 15 - 17	6,243	4.00%
Age 18 - 20	5,706	3.66%
Age 21 - 24	7,723	4.95%
Age 25 - 34	19,605	12.57%
Age 35 - 44	18,986	12.17%
Age 45 - 54	16,943	10.86%
Age 55 - 64	18,161	11.64%
Age 65 - 74	17,385	11.15%
Age 75 - 84	10,932	7.01%
Age 85 and over	4,275	2.74%
Age 16 and over	123,911	79.44%
Age 18 and over	119,715	76.75%
Age 21 and over	114,010	73.09%
Age 65 and over	32,592	20.89%
2021 Est. Median Age		39.49
2021 Est. Average Age		40.81
2021 Est. Population by Sex	155,989	
Male	76,136	48.81%
Female	79,853	51.19%

DESCRIPTION	DATA	%
2021 Est. Male Population by Age	76,136	
Age 0 - 4	5,067	6.66%
Age 5 - 9	5,024	6.60%
Age 10 - 14	5,306	6.97%
Age 15 - 17	3,184	4.18%
Age 18 - 20	2,973	3.91%
Age 21 - 24	4,004	5.26%
Age 25 - 34	9,975	13.10%
Age 35 - 44	9,326	12.25%
Age 45 - 54	8,295	10.90%
Age 55 - 64	8,637	11.34%
Age 65 - 74	7,832	10.29%
Age 75 - 84	4,757	6.25%
Age 85 and over	1,755	2.31%
2021 Est. Median Age, Male		37.64
2021 Est. Average Age, Male		39.77
2021 Est. Female Population by Age	79,853	
Age 0 - 4	4,840	6.06%
Age 5 - 9	4,837	6.06%
Age 10 - 14	4,956	6.21%
Age 15 - 17	3,059	3.83%
Age 18 - 20	2,733	3.42%
Age 21 - 24	3,719	4.66%
Age 25 - 34	9,630	12.06%
Age 35 - 44	9,660	12.10%
Age 45 - 54	8,648	10.83%
Age 55 - 64	9,524	11.93%
Age 65 - 74	9,553	11.96%
Age 75 - 84	6,175	7.73%
Age 85 and over	2,520	3.16%
2021 Est. Median Age, Female		41.30
2021 Est. Average Age, Female		41.82

Primary Retail Trade Area • Demographic Profile

Beaumont, California

Item 6.

DESCRIPTION	DATA	%
2021 Est. Pop Age 15+ by Marital Status		
Total, Never Married	37,206	29.54%
Males, Never Married	19,696	15.64%
Females, Never Married	17,510	13.90%
Married, Spouse present	58,997	46.84%
Married, Spouse absent	7,290	5.79%
Widowed	9,371	7.44%
Males Widowed	2,047	1.63%
Females Widowed	7,324	5.82%
Divorced	13,094	10.40%
Males Divorced	5,333	4.23%
Females Divorced	7,761	6.16%
2021 Est. Pop Age 25+ by Edu. Attainment		
Less than 9th grade	5,959	5.6%
Some High School, no diploma	7,964	7.5%
High School Graduate (or GED)	31,976	30.1%
Some College, no degree	26,325	24.8%
Associate Degree	10,929	10.3%
Bachelor's Degree	14,491	13.6%
Master's Degree	6,579	6.2%
Professional School Degree	1,164	1.1%
Doctorate Degree	900	0.8%
2021 Est. Pop Age 25+ by Edu. Attain., Hisp./ Lat.		
No High School Diploma	8,796	24.41%
High School Graduate	11,760	32.64%
Some College or Associate's Degree	10,807	29.99%
Bachelor's Degree or Higher	4,670	12.96%
Households		
2026 Projection	57,086	
2021 Estimate	54,782	
2010 Census	48,494	
2000 Census	34,334	
Growth 2021 - 2026		4.21%
Growth 2010 - 2021		12.97%
Growth 2000 - 2010		41.24%
2021 Est. Households by Household Type	54,782	
Family Households	39,215	71.58%
Nonfamily Households	15,567	28.42%
2021 Est. Group Quarters Population	2,467	
2021 Households by Ethnicity, Hispanic/Latino	16,600	

DESCRIPTION	DATA	%
2021 Est. Households by Household Income	54,782	
Income < \$15,000	5,183	9.46%
Income \$15,000 - \$24,999	4,535	8.28%
Income \$25,000 - \$34,999	4,509	8.23%
Income \$35,000 - \$49,999	6,380	11.65%
Income \$50,000 - \$74,999	8,897	16.24%
Income \$75,000 - \$99,999	6,917	12.63%
Income \$100,000 - \$124,999	5,428	9.91%
Income \$125,000 - \$149,999	4,160	7.59%
Income \$150,000 - \$199,999	4,424	8.08%
Income \$200,000 - \$249,999	2,015	3.68%
Income \$250,000 - \$499,999	1,700	3.10%
Income \$500,000+	634	1.16%
2021 Est. Average Household Income		\$92,157
2021 Est. Median Household Income		\$68,512
2021 Median HH Inc. by Single-Class. Race or Eth.		
White Alone		\$66,143
Black or African American Alone		\$85,144
American Indian and Alaska Native Alone		\$66,082
Asian Alone		\$83,447
Native Hawaiian and Other Pacific Islander Alone		\$63,657
Some Other Race Alone		\$69,121
Two or More Races		\$79,433
Hispanic or Latino		\$66,963
Not Hispanic or Latino		\$69,197
2021 Est. Family HH Type by Presence of Own Child.	39,215	
Married-Couple Family, own children	12,068	30.77%
Married-Couple Family, no own children	17,416	44.41%
Male Householder, own children	1,609	4.10%
Male Householder, no own children	1,422	3.63%
Female Householder, own children	3,407	8.69%
Female Householder, no own children	3,293	8.40%
2021 Est. Households by Household Size	54,782	
1-person	12,673	23.13%
2-person	17,536	32.01%
3-person	8,643	15.78%
4-person	7,385	13.48%
5-person	4,530	8.27%
6-person	2,277	4.16%
7-or-more-person	1,738	3.17%
2021 Est. Average Household Size		2.8

Primary Retail Trade Area • Demographic Profile

Beaumont, California

Item 6.

DESCRIPTION	DATA	%
2021 Est. Households by Presence of People Under 18	54,782	
Households with 1 or More People under Age 18:	19,537	35.66%
Married-Couple Family	13,234	67.74%
Other Family, Male Householder	1,929	9.87%
Other Family, Female Householder	4,211	21.55%
Nonfamily, Male Householder	110	0.56%
Nonfamily, Female Householder	53	0.27%
Households with No People under Age 18:	35,245	64.34%
Married-Couple Family	16,248	46.10%
Other Family, Male Householder	1,111	3.15%
Other Family, Female Householder	2,483	7.05%
Nonfamily, Male Householder	6,474	18.37%
Nonfamily, Female Householder	8,928	25.33%
2021 Est. Households by Number of Vehicles	54,782	
No Vehicles	2,534	4.63%
1 Vehicle	16,242	29.65%
2 Vehicles	19,538	35.67%
3 Vehicles	10,523	19.21%
4 Vehicles	3,717	6.79%
5 or more Vehicles	2,228	4.07%
2021 Est. Average Number of Vehicles		2.1
Family Households		
2026 Projection	40,869	
2021 Estimate	39,215	
2010 Census	34,657	
2000 Census	24,164	
Growth 2021 - 2026		4.22%
Growth 2010 - 2021		13.15%
Growth 2000 - 2010		43.42%
2021 Est. Families by Poverty Status	39,215	
2021 Families at or Above Poverty	35,769	91.21%
2021 Families at or Above Poverty with Children	15,558	39.67%
2021 Families Below Poverty	3,446	8.79%
2021 Families Below Poverty with Children	2,040	5.20%
2021 Est. Pop 16+ by Employment Status	123,911	
Civilian Labor Force, Employed	64,603	52.14%
Civilian Labor Force, Unemployed	3,532	2.85%
Armed Forces	70	0.06%
Not in Labor Force	55,706	44.96%

DESCRIPTION	DATA	%
2021 Est. Civ. Employed Pop 16+ by Class of Worker	63,113	
For-Profit Private Workers	41,087	65.10%
Non-Profit Private Workers	4,352	6.90%
Local Government Workers	1,131	1.79%
State Government Workers	2,631	4.17%
Federal Government Workers	7,835	12.41%
Self-Employed Workers	6,020	9.54%
Unpaid Family Workers	56	0.09%
2021 Est. Civ. Employed Pop 16+ by Occupation	63,113	
Architect/Engineer	576	0.91%
Arts/Entertainment/Sports	918	1.46%
Building Grounds Maintenance	2,274	3.60%
Business/Financial Operations	2,081	3.30%
Community/Social Services	1,212	1.92%
Computer/Mathematical	1,022	1.62%
Construction/Extraction	3,895	6.17%
Education/Training/Library	4,119	6.53%
Farming/Fishing/Forestry	394	0.62%
Food Prep/Serving	3,556	5.63%
Health Practitioner/Technician	4,913	7.78%
Healthcare Support	2,635	4.18%
Maintenance Repair	2,706	4.29%
Legal	477	0.76%
Life/Physical/Social Science	459	0.73%
Management	4,761	7.54%
Office/Admin. Support	7,581	12.01%
Production	2,919	4.63%
Protective Services	2,041	3.23%
Sales/Related	6,957	11.02%
Personal Care/Service	1,904	3.02%
Transportation/Moving	5,715	9.06%
2021 Est. Pop 16+ by Occupation Classification	63,113	
White Collar	35,076	55.58%
Blue Collar	15,235	24.14%
Service and Farm	12,803	20.29%
2021 Est. Workers Age 16+ by Transp. to Work	61,609	
Drove Alone	50,886	82.60%
Car Pooled	5,392	8.75%
Public Transportation	418	0.68%
Walked	829	1.35%
Bicycle	27	0.04%
Other Means	1,541	2.50%
Worked at Home	2,517	4.09%

Primary Retail Trade Area • Demographic Profile

Beaumont, California

Item 6.

DESCRIPTION	DATA	%
2021 Est. Workers Age 16+ by Travel Time to Work		
Less than 15 Minutes	13,976	
15 - 29 Minutes	17,572	
30 - 44 Minutes	15,249	
45 - 59 Minutes	5,581	
60 or more Minutes	6,769	
2021 Est. Avg Travel Time to Work in Minutes		33
2021 Est. Occupied Housing Units by Tenure	54,782	
Owner Occupied	40,623	74.15%
Renter Occupied	14,159	25.85%
2021 Owner Occ. HUs: Avg. Length of Residence		13.55
2021 Renter Occ. HUs: Avg. Length of Residence		6.5
2021 Est. Owner-Occupied Housing Units by Value	54,782	
Value Less than \$20,000	1,585	3.90%
Value \$20,000 - \$39,999	1,501	3.70%
Value \$40,000 - \$59,999	759	1.87%
Value \$60,000 - \$79,999	584	1.44%
Value \$80,000 - \$99,999	411	1.01%
Value \$100,000 - \$149,999	1,005	2.47%
Value \$150,000 - \$199,999	1,781	4.38%
Value \$200,000 - \$299,999	7,012	17.26%
Value \$300,000 - \$399,999	10,214	25.14%
Value \$400,000 - \$499,999	7,323	18.03%
Value \$500,000 - \$749,999	5,544	13.65%
Value \$750,000 - \$999,999	1,740	4.28%
Value \$1,000,000 or \$1,499,999	559	1.38%
Value \$1,500,000 or \$1,999,999	147	0.36%
Value \$2,000,000+	458	1.13%
2021 Est. Median All Owner-Occupied Housing Value		\$355,364
2021 Est. Housing Units by Units in Structure		
1 Unit Detached	43,532	72.97%
1 Unit Attached	1,454	2.44%
2 Units	788	1.32%
3 or 4 Units	1,331	2.23%
5 to 19 Units	1,722	2.89%
20 to 49 Units	569	0.95%
50 or More Units	753	1.26%
Mobile Home or Trailer	9,444	15.83%
Boat, RV, Van, etc.	65	0.11%

DESCRIPTION	DATA	%
2021 Est. Housing Units by Year Structure Built		
Housing Units Built 2014 or later	6,098	10.22%
Housing Units Built 2010 to 2014	1,544	2.59%
Housing Units Built 2000 to 2009	15,649	26.23%
Housing Units Built 1990 to 1999	6,125	10.27%
Housing Units Built 1980 to 1989	6,639	11.13%
Housing Units Built 1970 to 1979	7,542	12.64%
Housing Units Built 1960 to 1969	6,447	10.81%
Housing Units Built 1950 to 1959	5,870	9.84%
Housing Units Built 1940 to 1949	2,199	3.69%
Housing Unit Built 1939 or Earlier	1,544	2.59%
2021 Est. Median Year Structure Built		1989



ACKNOWLEDGMENTS

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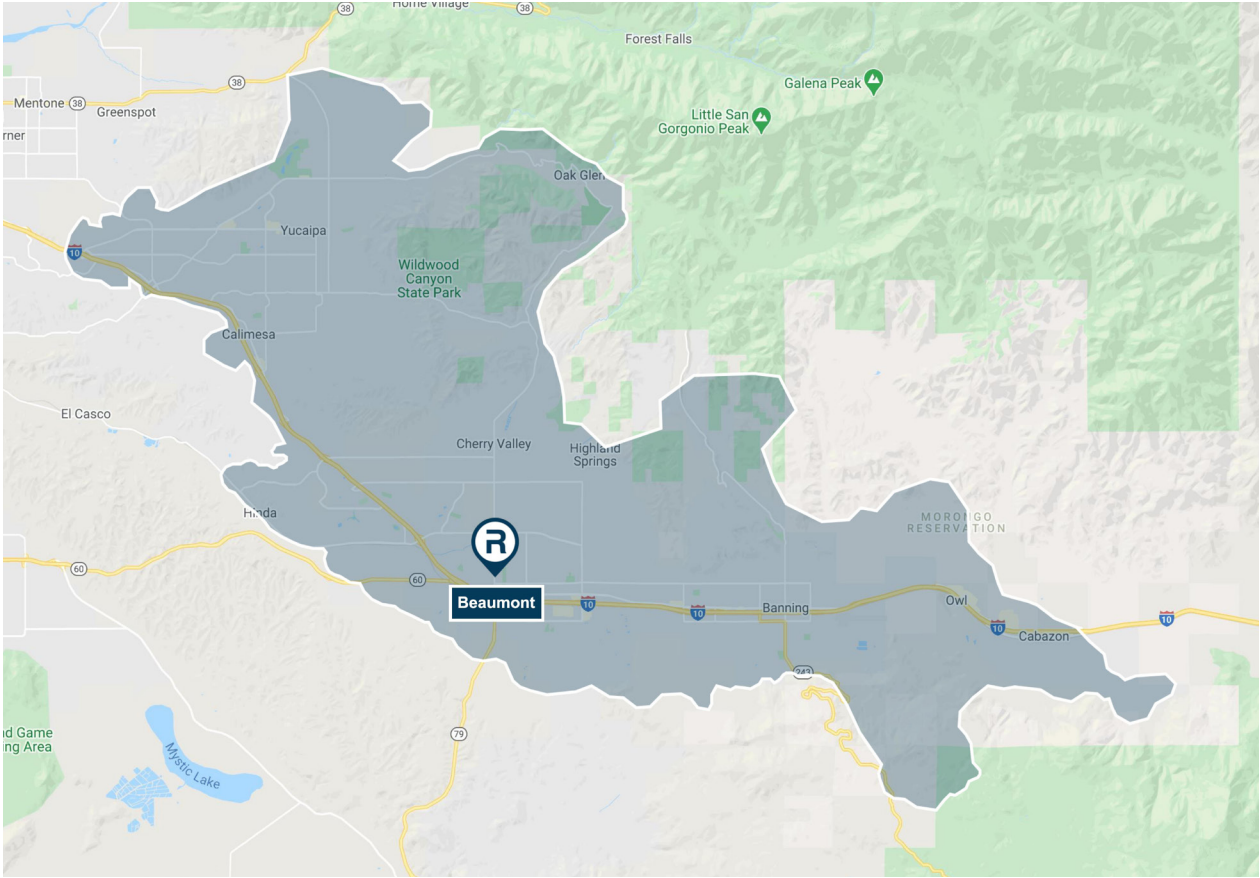


BEAUMONT, CALIFORNIA

Primary Retail Trade Area Psychographic Profile



Primary Retail Trade Area



Prepared for:



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Retail:360® Process

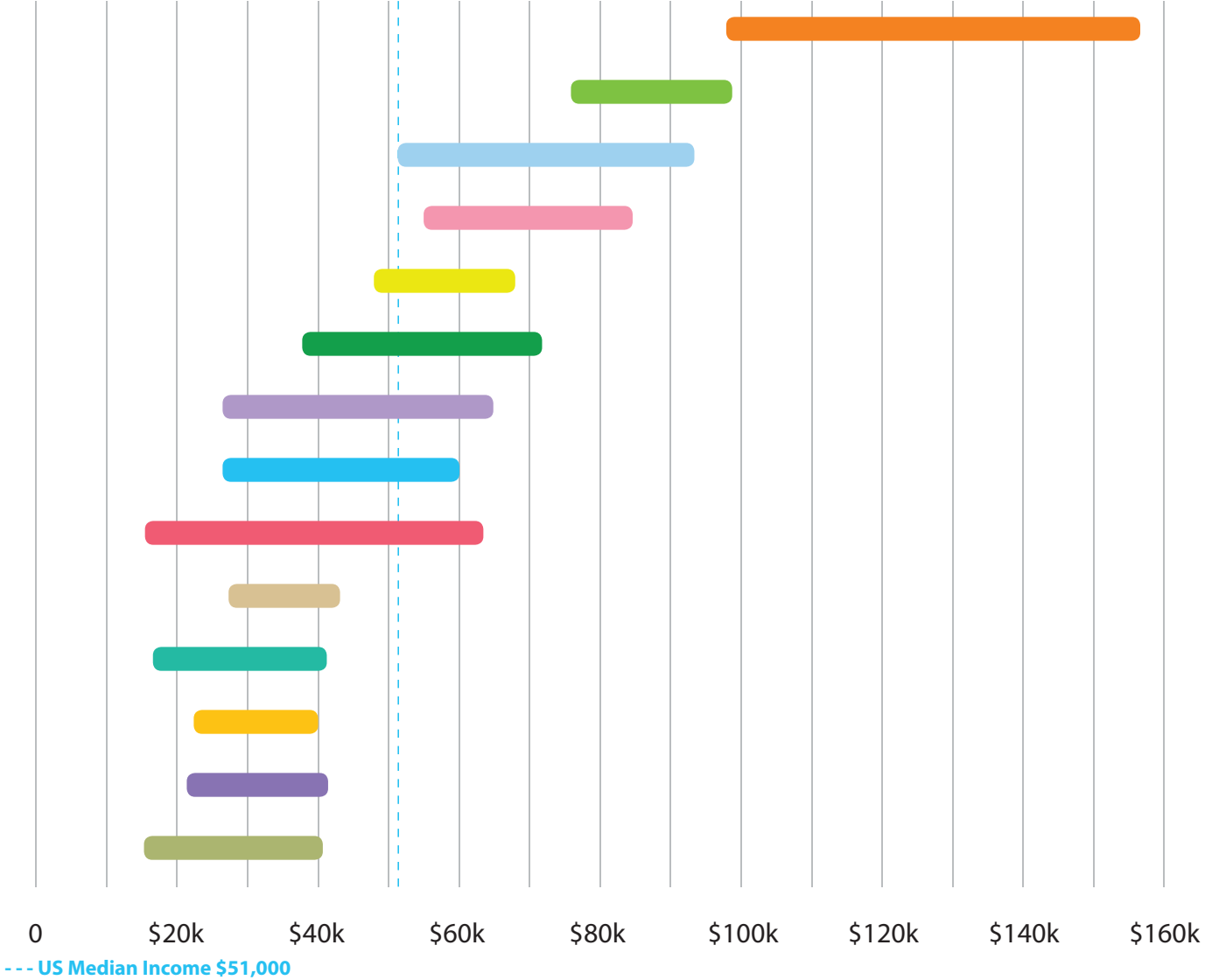
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Income Range of Lifemode Summary Groups

Beaumont, California

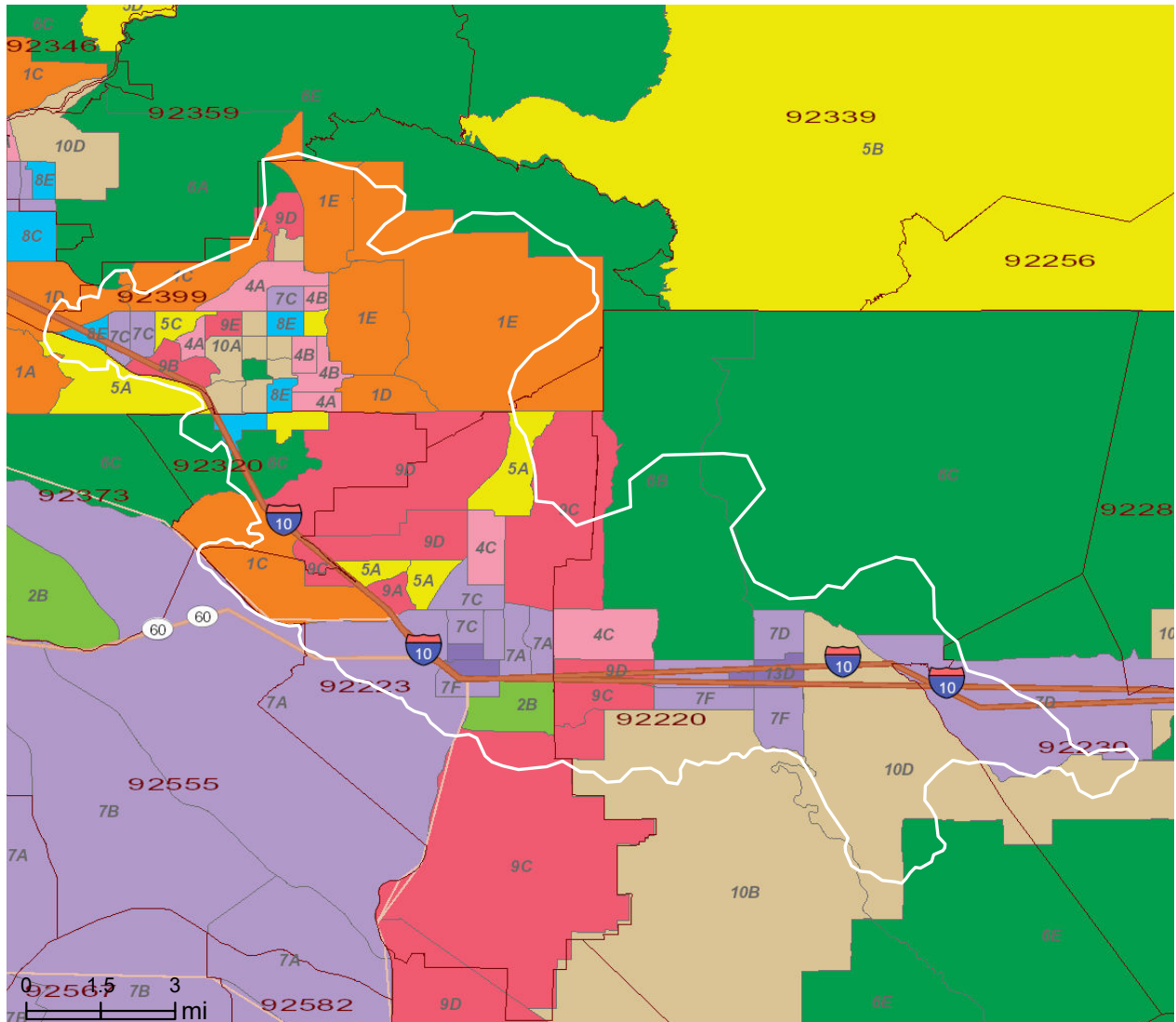


- + L1 AFFLUENT ESTATES**
Established wealth — educated, well-traveled married couples
- + L2 UPSCALE AVENUES**
Prosperous, married couples in higher density neighborhoods
- + L3 UPTOWN INDIVIDUALS**
Younger, urban singles on the move
- + L4 FAMILY LANDSCAPES**
Successful younger families in newer housing
- + L5 GENXURBAN**
Gen X in middle age; families with fewer kids and a mortgage
- + L6 COZY COUNTRY**
Empty nesters in bucolic settings
- + L7 ETHNIC ENCLAVES**
Established diversity — young, Hispanic homeowners with families

- + L8 MIDDLE GROUND**
Lifestyles of thirtysomethings
- + L9 SENIOR STYLES**
Senior lifestyles reveal the effects of saving for retirement
- + L10 RUSTIC OUTPOSTS**
Country life with older families, older homes
- + L11 MIDTOWN SINGLES**
Millennials on the move; single, diverse, and urban
- + L12 HOMETOWN**
Growing up and staying close to home; single householders
- + L13 NEXT WAVE**
Urban denizens; young, diverse, hardworking families
- + L14 SCHOLARS AND PATRIOTS**
College campuses and military neighborhoods

Primary Retail Trade Area • Lifemode Summary Groups Map

Beaumont, California



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College campuses and military neighborhoods

Primary Retail Trade Area • Top Tapestry Segments

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College campuses and military neighborhoods

	TAPESTRY SEGMENTATION	HOUSEHOLDS PERCENT	CUMULATIVE PERCENT	US HOUSEHOLDS PERCENT	CUMULATIVE PERCENT	INDEX
1	The Elders (9C)	11.8%	11.8%	0.7%	0.7%	1586
2	Down the Road (10D)	7.6%	19.4%	1.2%	1.9%	654
3	Senior Escapes (9D)	6.6%	26.0%	0.9%	2.8%	722
4	Boomburbs (1C)	6.5%	32.5%	1.8%	4.6%	365
5	Up and Coming Families (7A)	6.5%	39.0%	2.5%	7.1%	254
	Subtotal	39.0%		7.1%		
6	American Dreamers (7C)	5.4%	44.4%	1.5%	8.6%	367
7	Barrios Urbanos (7D)	5.3%	49.6%	1.0%	9.6%	507
8	Pleasantville (2B)	4.7%	54.3%	2.1%	11.7%	217
9	Soccer Moms (4A)	4.6%	58.9%	3.0%	14.7%	156
10	Southwestern Families (7F)	4.1%	63.1%	0.8%	15.5%	510
	Subtotal	24.1%		8.4%		
11	Middleburg (4C)	3.9%	67.0%	2.9%	18.4%	132
12	Fresh Ambitions (13D)	3.8%	70.8%	0.6%	19.0%	607
13	Comfortable Empty Nesters (5A)	3.8%	74.6%	2.4%	21.4%	156
14	Exurbanites (1E)	3.8%	78.4%	1.9%	23.3%	195
15	Front Porches (8E)	3.6%	81.9%	1.6%	24.9%	226
	Subtotal	18.9%		9.4%		
16	The Great Outdoors (6C)	3.0%	84.9%	1.6%	26.5%	190
17	Home Improvement (4B)	2.6%	87.5%	1.7%	28.2%	152
18	Savvy Suburbanites (1D)	2.1%	89.6%	3.0%	31.2%	70
19	Southern Satellites (10A)	1.9%	91.5%	3.2%	34.4%	59
20	Midlife Constants (5E)	1.6%	93.1%	2.5%	36.9%	66
	Subtotal	11.2%		12.0%		
	Total	93.1%		37.0%		252

9C LifeMode Group: Senior Styles

The Elders

US Households: 910,100
Average Household Size: 1.68

Median Age: 72.3
Median Household Income: \$42,800

WHO ARE WE?

With a median age of 72.3 years, this is Tapestry Segmentation's oldest market. The Elders residents favor communities designed for senior or assisted living, primarily in warmer climates with seasonal populations. Most of these householders are homeowners, although their housing varies from mobile homes to single-family residences to high-rise apartments. These seniors are informed, independent, and involved.

OUR NEIGHBORHOOD

- Suburban periphery of metropolitan areas, primarily in the warmer climates of Florida or Arizona.
- 45% married couples without children; 44% single households; average household size, 1.68.
- Owner-occupied housing units; median home value of \$180,000 (Index 87).
- Housing mix of single-family homes (44%), town homes, and high-density apartment buildings in neighborhoods built from 1970 through 1989.
- Vacancy rates higher at 24%, due to the number of seasonal or vacation homes.
- Almost 60% of the population in group quarters on nursing home facilities.

SOCIOECONOMIC TRAITS

- Predominantly retirees, The Elders has a low labor force participation rate of 22.4%.
- Those who are still in the labor force tend to be self-employed or part-timers, commonly in real estate, retail or the arts.
- Their income derives primarily from Social Security (80% of the households), retirement, or investments (almost half of the households). Less than 30% of the households draw wage/salary income.
- Median household income is lower than the US (Index 76), but median net worth is much higher (Index 269).
- These consumers have definite opinions about their spending, focusing on price, but not at the expense of quality. They prefer to use coupons and buy American and environmentally safe products.
- Cell phones are common but primarily used to make/receive calls.

9C LifeMode Group: Senior Styles

The Elders

AGE BY SEX (Esri data)

Median Age: 72.3 US: 38.2

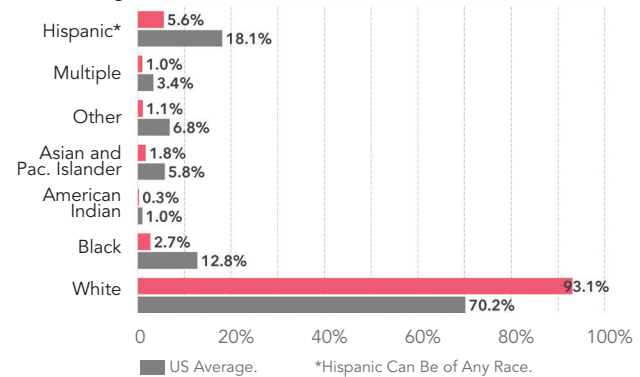
■ Indicates US



RACE AND ETHNICITY (Esri data)

The Diversity Index summarizes racial and ethnic diversity. The index shows the likelihood that two persons, chosen at random from the same area, belong to different race or ethnic groups. The index ranges from 0 (no diversity) to 100 (complete diversity).

Diversity Index: 22.4 US: 64.0



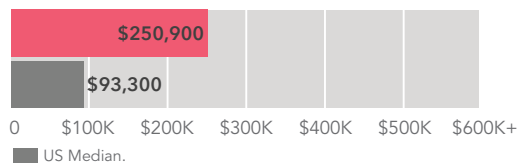
INCOME AND NET WORTH

Net worth measures total household assets (homes, vehicles, investments, etc.) less any debts, secured (e.g., mortgages) or unsecured (credit cards). Household income and net worth are estimated by Esri.

Median Household Income



Median Net Worth



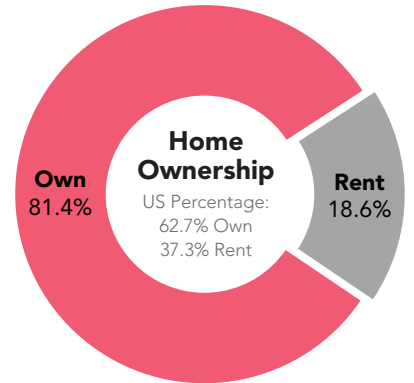
HOUSING

Median home value is displayed for markets that are primarily owner occupied; average rent is shown for renter-occupied markets. Tenure and home value are estimated by Esri. Housing type and average rent are from the Census Bureau's American Community Survey.



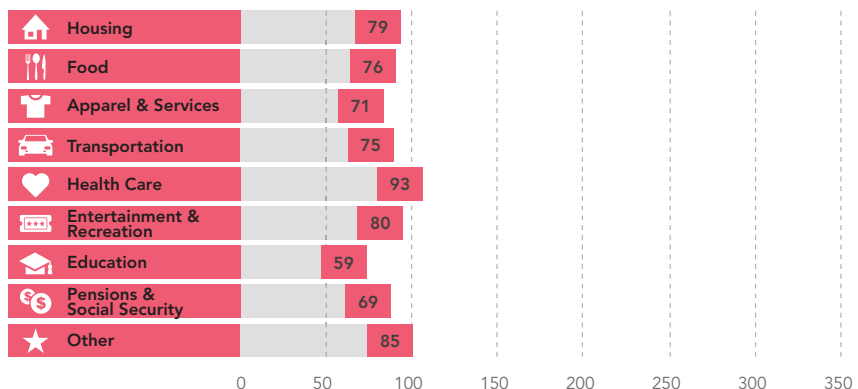
Typical Housing:
Single Family, High-Rises,
Mobile Homes/Seasonal

Median Value:
\$180,000



AVERAGE HOUSEHOLD BUDGET INDEX

The index compares the average amount spent in this market's household budgets for housing, food, apparel, etc., to the average amount spent by all US households. An index of 100 is average. An index of 120 shows that average spending by consumers in this market is 20 percent above the national average. Consumer expenditures are estimated by Esri.



9C LifeMode Group: Senior Styles

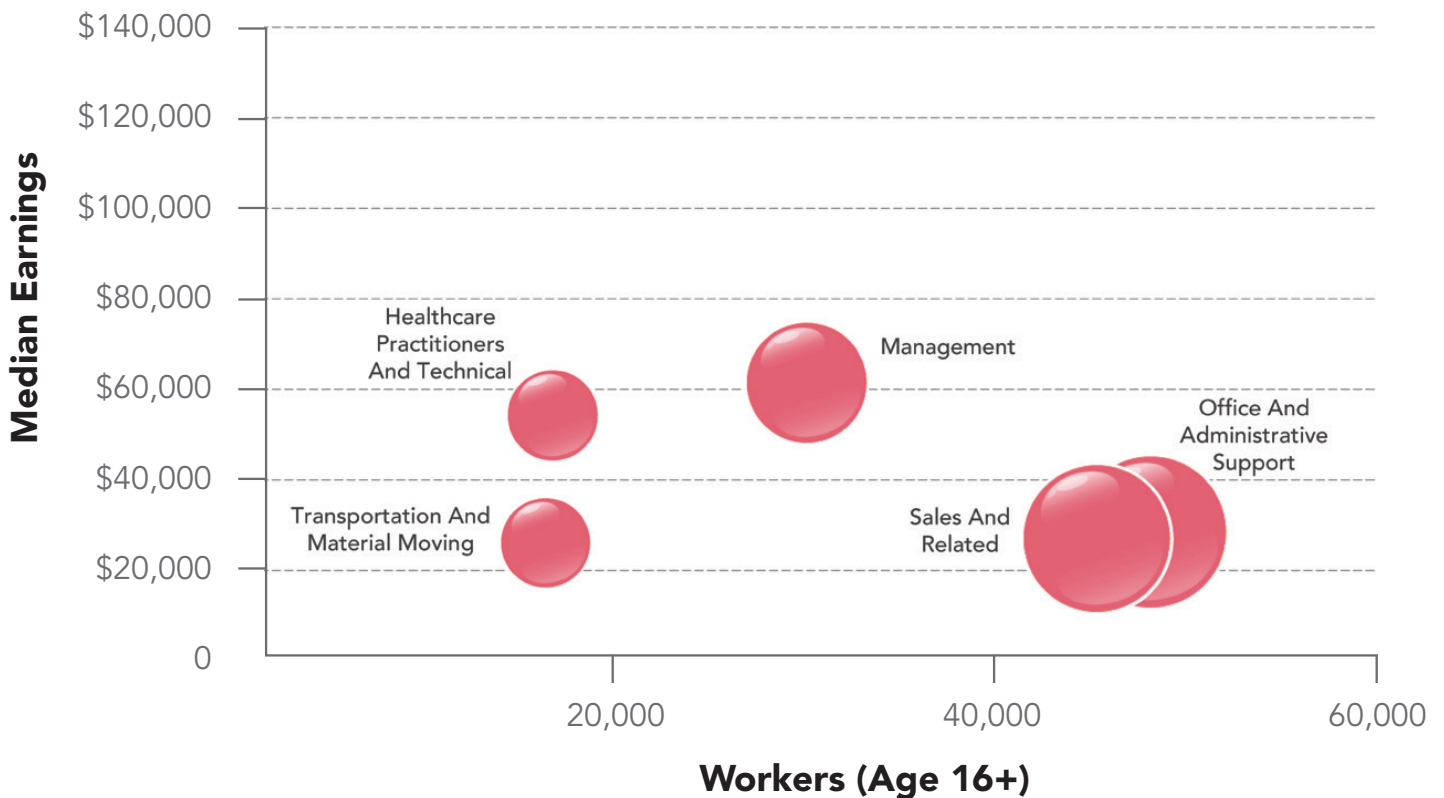
The Elders

Market Profile

- Vehicles are just a means of transportation, but their first choice is luxury sedans. Most of their cars are older (5+ years).
- They are connected via modems (cable or dial-up) on older PCs or notebooks. However, banking is commonly done in person; shopping is by phone or in person.
- Shopping includes apparel and exercise equipment.
- They are avid readers, with audio books and e-readers. Newspapers and magazines are staples for news and entertainment. Cable TV is also a must, primarily watching news or movie channels, but also golf, weather, and history channels.
- Residents are sociable seniors, partial to a variety of clubs and organizations and generous with their time and support.

OCCUPATION BY EARNINGS

The five occupations with the highest number of workers in the market are displayed by median earnings. Data from the Census Bureau's American Community Survey.



10D LifeMode Group: Rustic Outposts Down the Road

US Households: 1,406,700
Average Household Size: 2.76

Median Age: 35.0
Median Household Income: \$38,700

WHO ARE WE?

Down the Road is a mix of low-density, semirural neighborhoods in large metropolitan areas; half are located in the South, with the rest chiefly in the West and Midwest. Almost half of householders live in mobile homes; more than two-fifths live in single-family homes. These are younger, diverse communities, with the highest proportion of American Indians of any segment. These family-oriented consumers value their traditions. Workers are in service, retail trade, manufacturing, and construction industries, with higher proportions in agriculture and mining, compared to the US. This market has higher unemployment, much lower median household income and home value, and more than a fifth of households with income below poverty level.

OUR NEIGHBORHOOD

- Nearly two-thirds of households are owned.
- Family market, primarily married couples or single-parent households (Index 145).
- Close to half of all households live in mobile homes (Index 780).
- Four-fifths of households were built in 1970 or later.
- About 32% of homes are valued under \$50,000 (over 4 times the US percentage).

SOCIOECONOMIC TRAITS

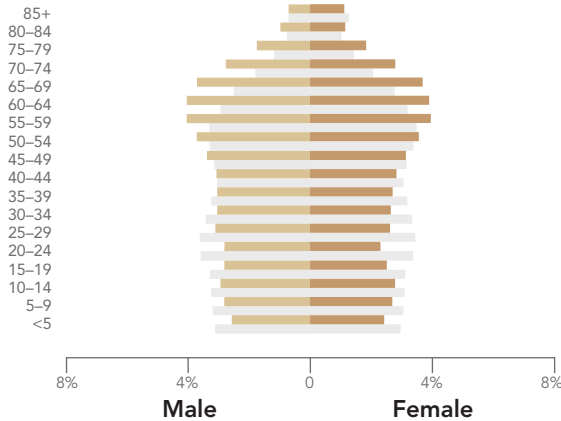
- Education completed: 36% with a high school diploma only, 41% with some college education or a degree.
- Unemployment rate is 7.8%, higher than the US rate.
- Labor force participation rate is 59.0%, slightly lower than the US.
- Family-oriented, outgoing consumers; they place importance on preserving time-honored customs.
- They put a premium on convenience rather than health and nutrition.

10D LifeMode Group: Rustic Outposts Down the Road

AGE BY SEX (Esri data)

Median Age: 45.2 US: 38.2

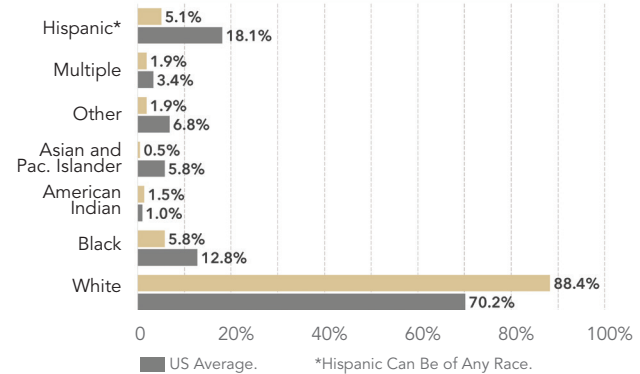
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RACE AND ETHNICITY (Esri data)

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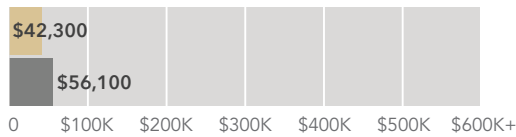
Diversity Index: 29.2 US: 64.0



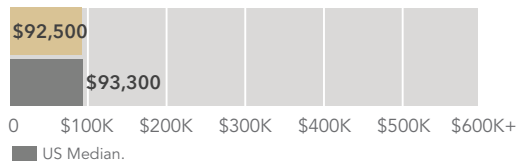
INCOME AND NET WORTH

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Median Household Income



Median Net Worth



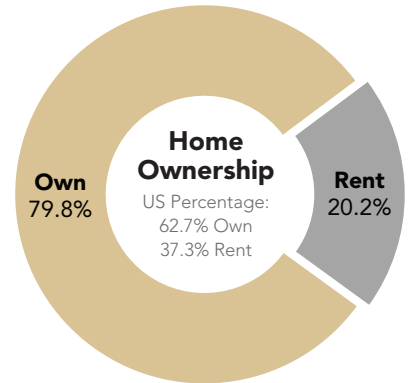
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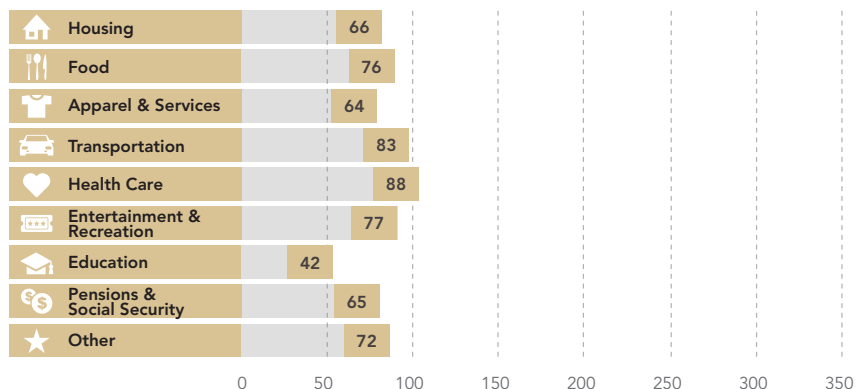
Typical Housing:
Single Family;
Mobile Homes

Median Value:
\$112,800



AVERAGE HOUSEHOLD BUDGET INDEX

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10D LifeMode Group: Rustic Outposts

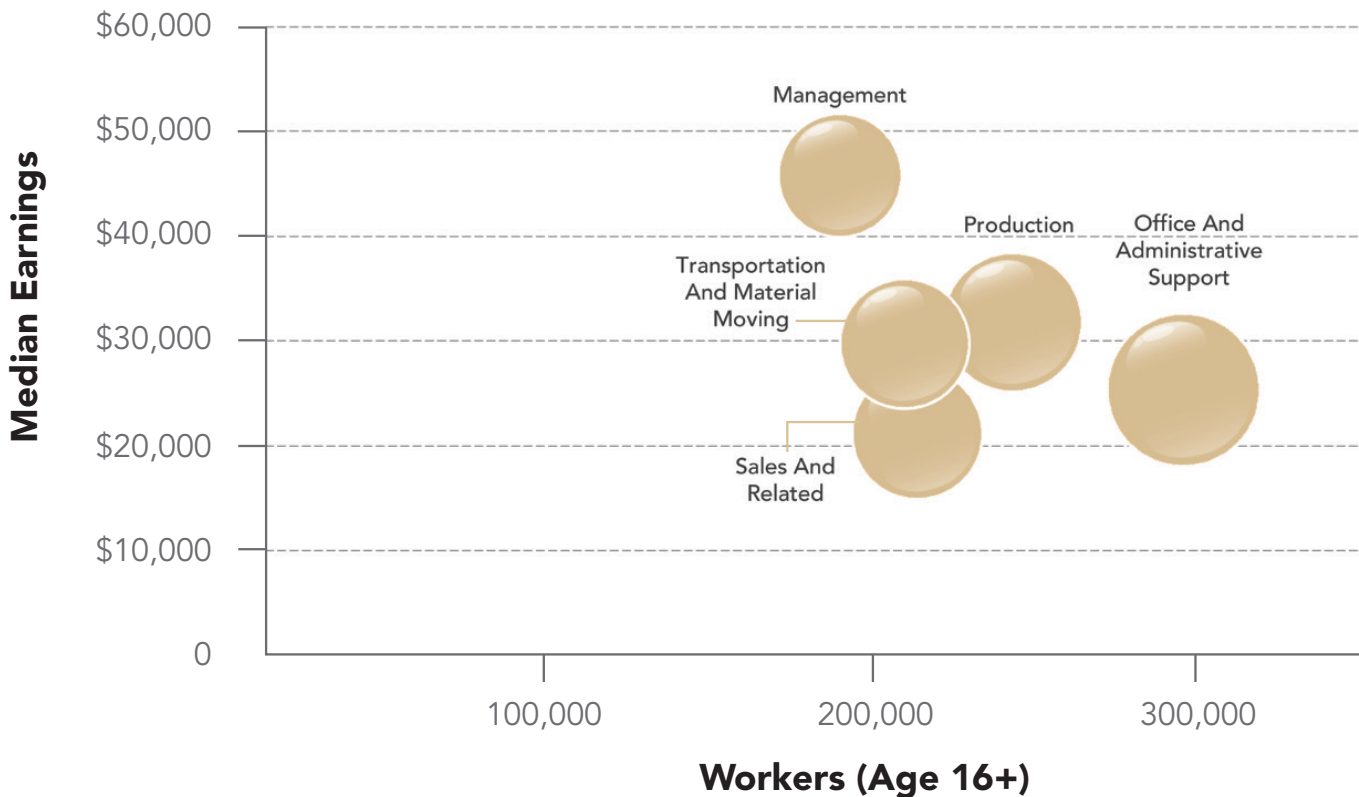
Down the Road

Market Profile

- Purchased a used vehicle in the past year, likely maintaining the vehicle themselves.
- Routinely stop by the convenience store to purchase gas, lottery tickets, and snacks.
- Participate in fishing and hunting.
- Use the Internet to stay connected with friends and play online video games.
- Listen to the radio, especially at work, with a preference for rap, R&B, and country music.
- Enjoy programs on Investigation Discovery, CMT, and Hallmark, typically watching via satellite dish.
- Often prepare quick meals, using packaged or frozen dinner entrees.
- Favorite fast food: burgers and pizza.
- Frequent Walmart Supercenters, Walgreens, dollar stores, K-Marts, and Big Lots for all their shopping needs (groceries, clothing, pharmacy, etc.).

OCCUPATION BY EARNINGS

The five occupations with the highest number of workers in the market are displayed by median earnings. Data from the Census Bureau's American Community Survey.



9D LifeMode Group: Senior Styles

Senior Escapes

US Households: 1,116,000
Average Household Size: 2.20

Median Age: 54.6
Median Household Income: \$38,700

WHO ARE WE?

Senior Escapes neighborhoods are heavily concentrated in the warmer states of Florida, California, and Arizona. These areas are highly seasonal, yet owner occupied. Many homes began as seasonal getaways and now serve as primary residences. Nearly forty percent are mobile homes; over half are single-family dwellings. About half are in unincorporated and more rural areas. Nearly one-fifth of the population is between 65 and 74 years old. Most are white and fairly conservative in their political and religious views. Residents enjoy watching TV, going on cruises, playing trivia games, bicycling, boating, and fishing. They are very conscious of their health and buy specialty foods and dietary supplements.

OUR NEIGHBORHOOD

- Neighborhoods include primary and second homes in rural or semirural settings.
- One quarter of all housing units are vacant; many are for seasonal use only.
- More than one-third of the households are married couples without children; a third are single-person households.
- More than half the homes are single family; nearly 40% are mobile homes.
- Three-quarters of all homes are owner occupied, and the majority own their homes free and clear.
- Still actively driving, most households have one or two vehicles.

SOCIOECONOMIC TRAITS

- Labor force participation is low, but more than half the households are drawing Social Security income.
- They have conservative political views.
- They spend majority of their time with spouse/significant other or alone.
- They are limited by medical conditions but still enjoy gardening and working on their vehicles.
- They take good care of vehicles, but haven't bought a new one in over five years.
- They only spend within their means, do their banking in person, and do not carry a balance on their credit card.

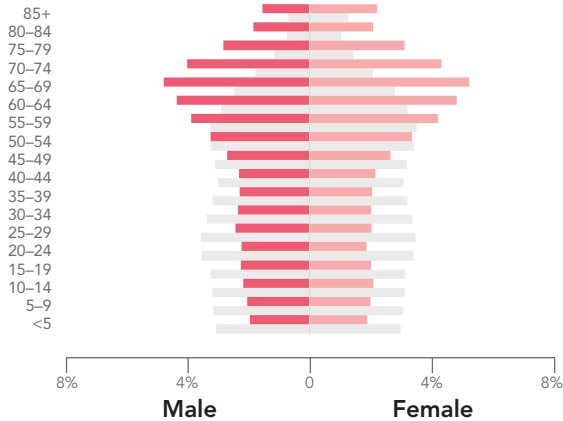
9D LifeMode Group: Senior Styles

Senior Escapes

AGE BY SEX (Esri data)

Median Age: 54.6 US: 38.2

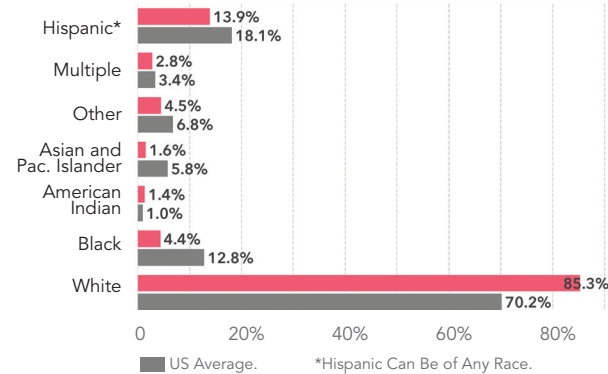
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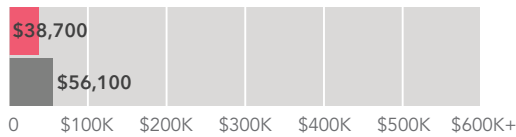
Diversity Index: 44.5 US: 64.0



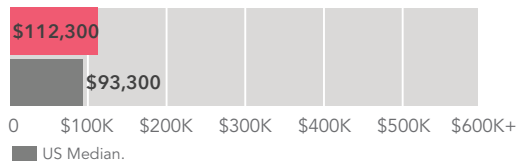
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Median Household Income



Median Net Worth



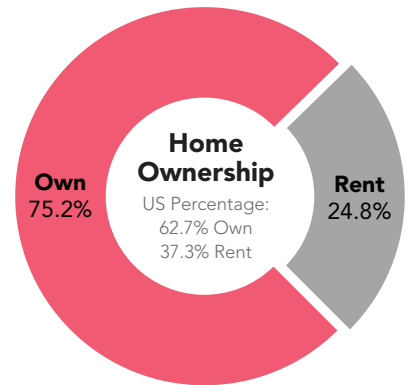
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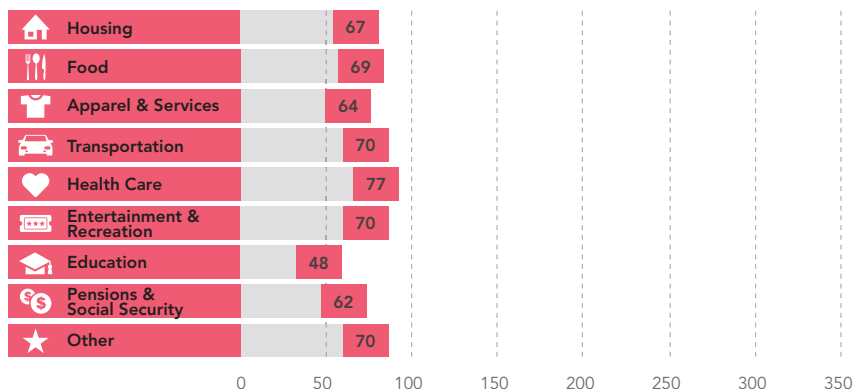
Typical Housing:
Single Family;
Mobile Homes/Seasonal

Median Value:
\$120,000



AVERAGE HOUSEHOLD BUDGET INDEX

The index compares the average amount spent in this market's household budgets for housing, food, apparel, etc., to the average amount spent by all US households. An index of 100 is average. An index of 120 shows that average spending by consumers in this market is 20 percent above the national average. Consumer expenditures are estimated by Esri.



9D LifeMode Group: Senior Styles

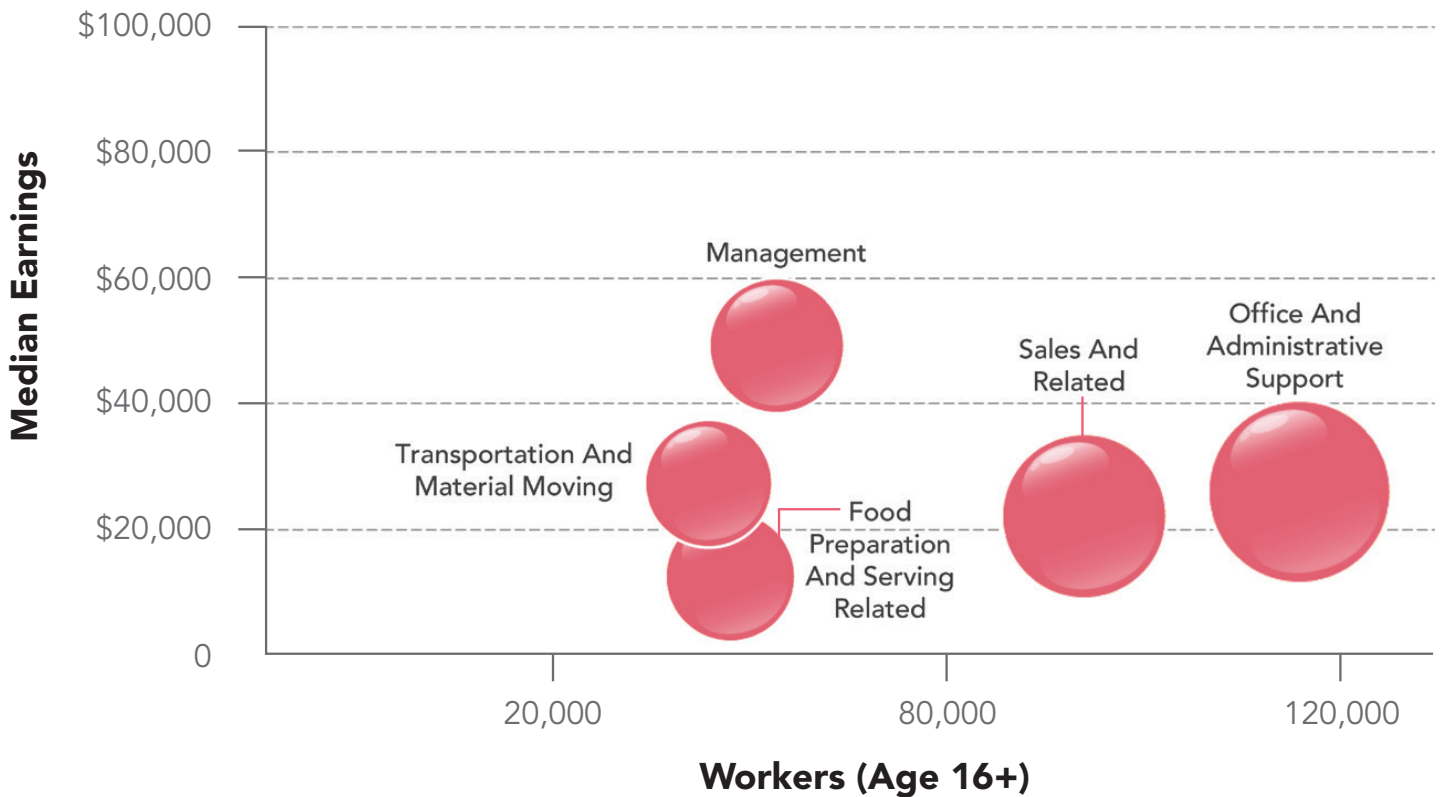
Senior Escapes

Market Profile

- Stock up on good deals, especially high-fiber, low-calorie, low-fat, and fat-free foods.
- Own 3, sometimes 4 or more TVs and watch news, sports, CMT, Hallmark, and AMC.
- Belong to veterans' clubs; maintain AARP and AAA memberships.
- Get most information from TV and the Sunday newspaper; light users of home computers and the Internet.
- Travel in the US via guided tours but weary of security issues.
- Frequently dine out at Wendy's, Golden Corral, and Cracker Barrel.

OCCUPATION BY EARNINGS

The five occupations with the highest number of workers in the market are displayed by median earnings. Data from the Census Bureau's American Community Survey.



1C LifeMode Group: Affluent Estates Boomburbs

US Households: 2,004,400
Average Household Size: 3.25

Median Age: 34.0
Median Household Income: \$113,400

WHO ARE WE?

This is the new growth market, with a profile similar to the original: young professionals with families that have opted to trade up to the newest housing in the suburbs. The original Boomburbs neighborhoods began growing in the 1990s and continued through the peak of the housing boom. Most of those neighborhoods are fully developed now. This is an affluent market but with a higher proportion of mortgages. Rapid growth still distinguishes the Boomburbs neighborhoods, although the boom is more subdued now than it was 10 years ago. So is the housing market. Residents are well-educated professionals with a running start on prosperity.

OUR NEIGHBORHOOD

- Growth markets are in the suburban periphery of large metropolitan areas.
- Young families are married with children (Index 220); average household size is 3.25.
- Home ownership is 84% (Index 134), with the highest rate of mortgages, 71.5% (Index 173).
- Primarily single-family homes, in new neighborhoods, 66% built since 2000 (Index 441).
- Median home value is \$350,000 (Index 169).
- Lower housing vacancy rate at 3.7%.
- The cost of affordable new housing comes at the expense of one of the longest commutes to work, over 30 minutes average, including a disproportionate number (33.6%) commuting across county lines (Index 141).

SOCIOECONOMIC TRAITS

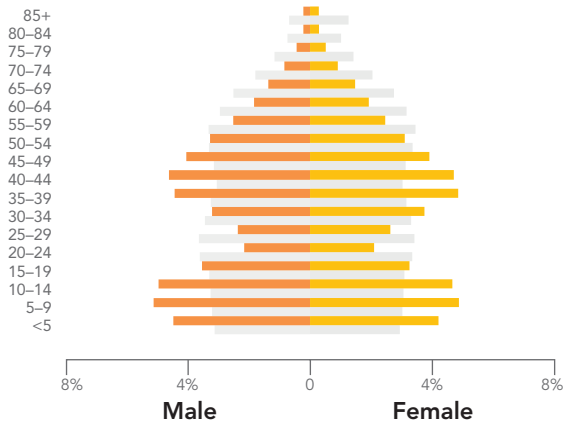
- Well educated young professionals, 55% are college graduates (Index 178).
- Unemployment is low at 3.3% (Index 61); high labor force participation at 71.3% (Index 114); most households have more than two workers (Index 124).
- Longer commute times from the suburban growth corridors have created more home workers (Index 156).
- They are well connected: own the latest devices and understand how to use them efficiently; biggest complaints—too many devices and too many intrusions on personal time.
- Financial planning is well under way for these professionals.

1C LifeMode Group: Affluent Estates Boomburbs

AGE BY SEX (Esri data)

Median Age: 34.0 US: 38.2

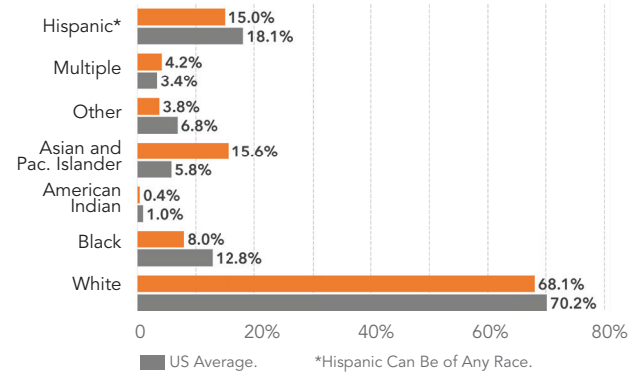
■ Indicates US



RACE AND ETHNICITY (Esri data)

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Diversity Index: 63.2 US: 64.0



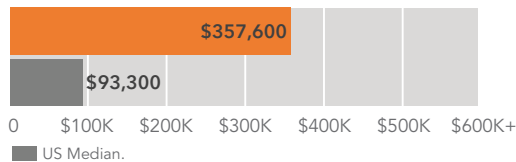
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Median Household Income



Median Net Worth



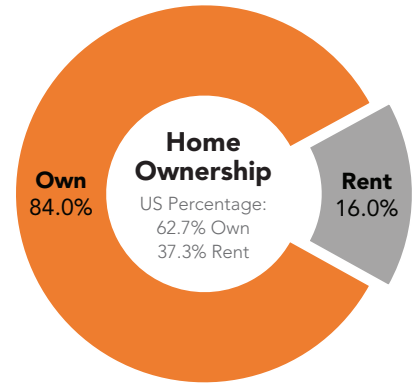
HOUSING

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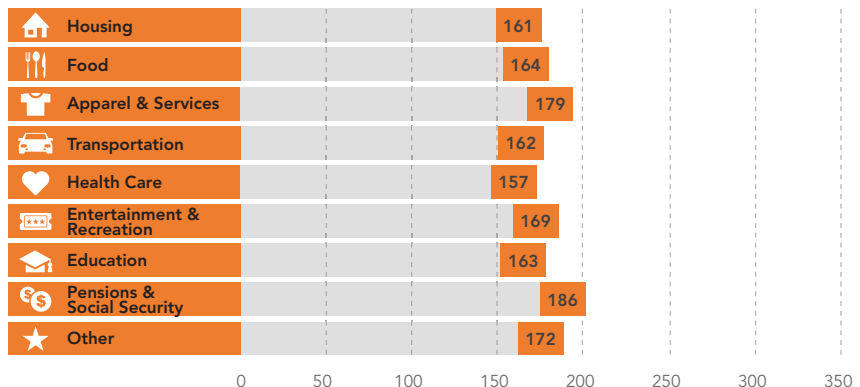
Typical Housing:
Single Family

Median Value:
\$350,000
US Median: \$207,300



AVERAGE HOUSEHOLD BUDGET INDEX

The index compares the average amount spent in this market's household budgets for housing, food, apparel, etc., to the average amount spent by all US households. An index of 100 is average. An index of 120 shows that average spending by consumers in this market is 20 percent above the national average. Consumer expenditures are estimated by Esri.



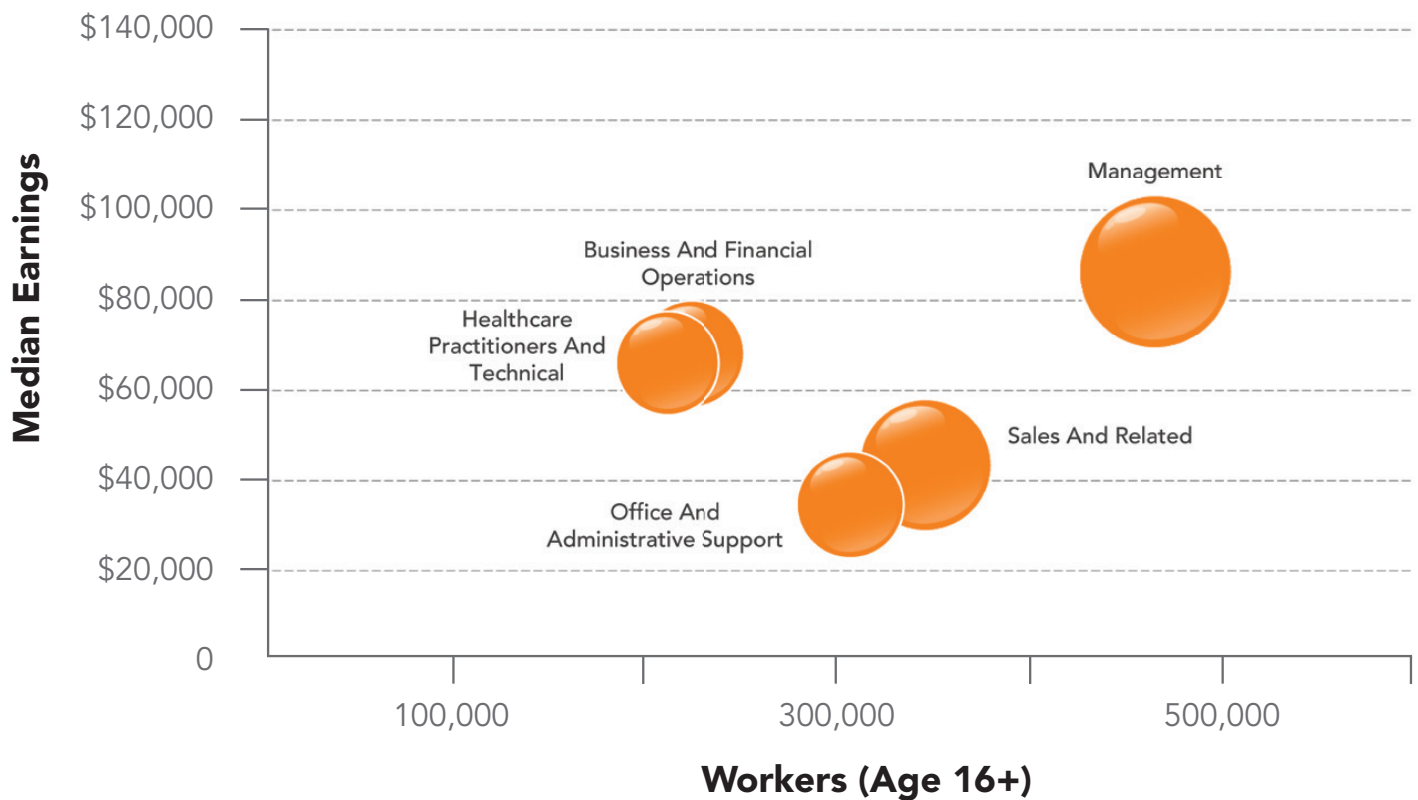
1C LifeMode Group: Affluent Estates Boomburbs

Market Profile

- Boomburbs residents prefer late model imports, primarily SUVs, and also luxury cars and minivans.
- This is one of the top markets for the latest in technology, from smartphones to tablets to Internet connectable televisions.
- Style matters in the Boomburbs, from personal appearance to their homes. These consumers are still furnishing their new homes and already remodeling.
- They like to garden but more often contract for home services.
- Physical fitness is a priority, including club memberships and home equipment.
- Leisure includes a range of activities from sports (hiking, bicycling, swimming, golf) to visits to theme parks or water parks.
- Residents are generous supporters of charitable organizations.

OCCUPATION BY EARNINGS

The five occupations with the highest number of workers in the market are displayed by median earnings. Data from the Census Bureau's American Community Survey.



7A LifeMode Group: Ethnic Enclaves

Up and Coming Families

US Households: 2,901,200
Average Household Size: 3.12

Median Age: 31.4
Median Household Income: \$72,000

WHO ARE WE?

Up and Coming Families is a market in transition—residents are younger and more mobile and ethnically diverse than the previous generation. They are ambitious, working hard to get ahead, and willing to take some risks to achieve their goals. The recession has impacted their financial well-being, but they are optimistic. Their homes are new; their families are young. And this is one of the fastest-growing markets in the country.

OUR NEIGHBORHOOD

- New suburban periphery: new families in new housing subdivisions.
- Building began in the housing boom of the 2000s and continues in this fast-growing market.
- Single-family homes with a median value of \$194,400 and a lower vacancy rate.
- The price of affordable housing: longer commute times (Index 217).

SOCIOECONOMIC TRAITS

- Education: 67% have some college education or degree(s).
- Hard-working labor force with a participation rate of 71% (Index 114) and low unemployment at 4.6% (Index 84).
- Most households (61%) have 2 or more workers.
- Careful shoppers, aware of prices, willing to shop around for the best deals and open to influence by others' opinions.
- Seek the latest and best in technology.
- Young families still feathering the nest and establishing their style.

7A LifeMode Group: Ethnic Enclaves

Up and Coming Families

AGE BY SEX (Esri data)

Median Age: **31.4** US: 38.2

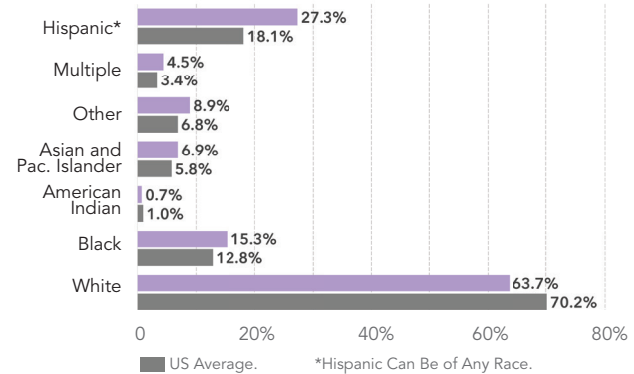
■ Indicates US



RACE AND ETHNICITY (Esri data)

The Diversity Index summarizes racial and ethnic diversity. The index shows the likelihood that two persons, chosen at random from the same area, belong to different race or ethnic groups. The index ranges from 0 (no diversity) to 100 (complete diversity).

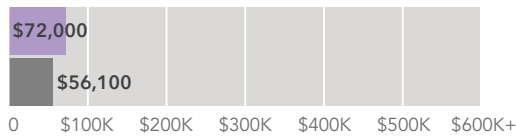
Diversity Index: **73.9** US: 64.0



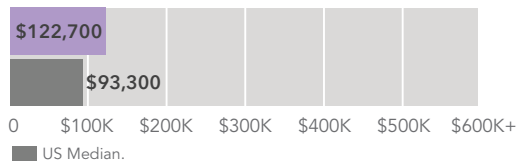
INCOME AND NET WORTH

Net worth measures total household assets (homes, vehicles, investments, etc.) less any debts, secured (e.g., mortgages) or unsecured (credit cards). Household income and net worth are estimated by Esri.

Median Household Income



Median Net Worth



HOUSING

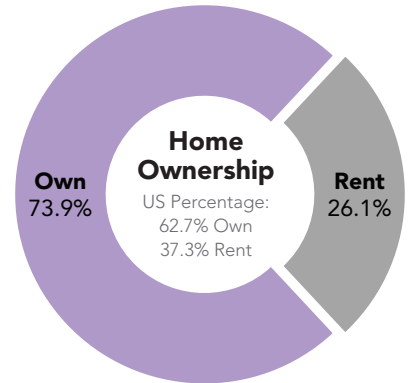
Median home value is displayed for markets that are primarily owner occupied; average rent is shown for renter-occupied markets. Tenure and home value are estimated by Esri. Housing type and average rent are from the Census Bureau's American Community Survey.



Typical Housing:
Single Family

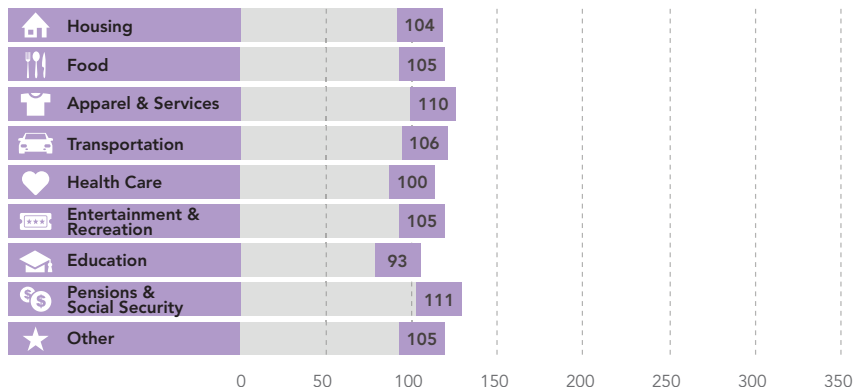
Median Value:
\$194,400

US Median: \$207,300



AVERAGE HOUSEHOLD BUDGET INDEX

The index compares the average amount spent in this market's household budgets for housing, food, apparel, etc., to the average amount spent by all US households. An index of 100 is average. An index of 120 shows that average spending by consumers in this market is 20 percent above the national average. Consumer expenditures are estimated by Esri.



7A LifeMode Group: Ethnic Enclaves

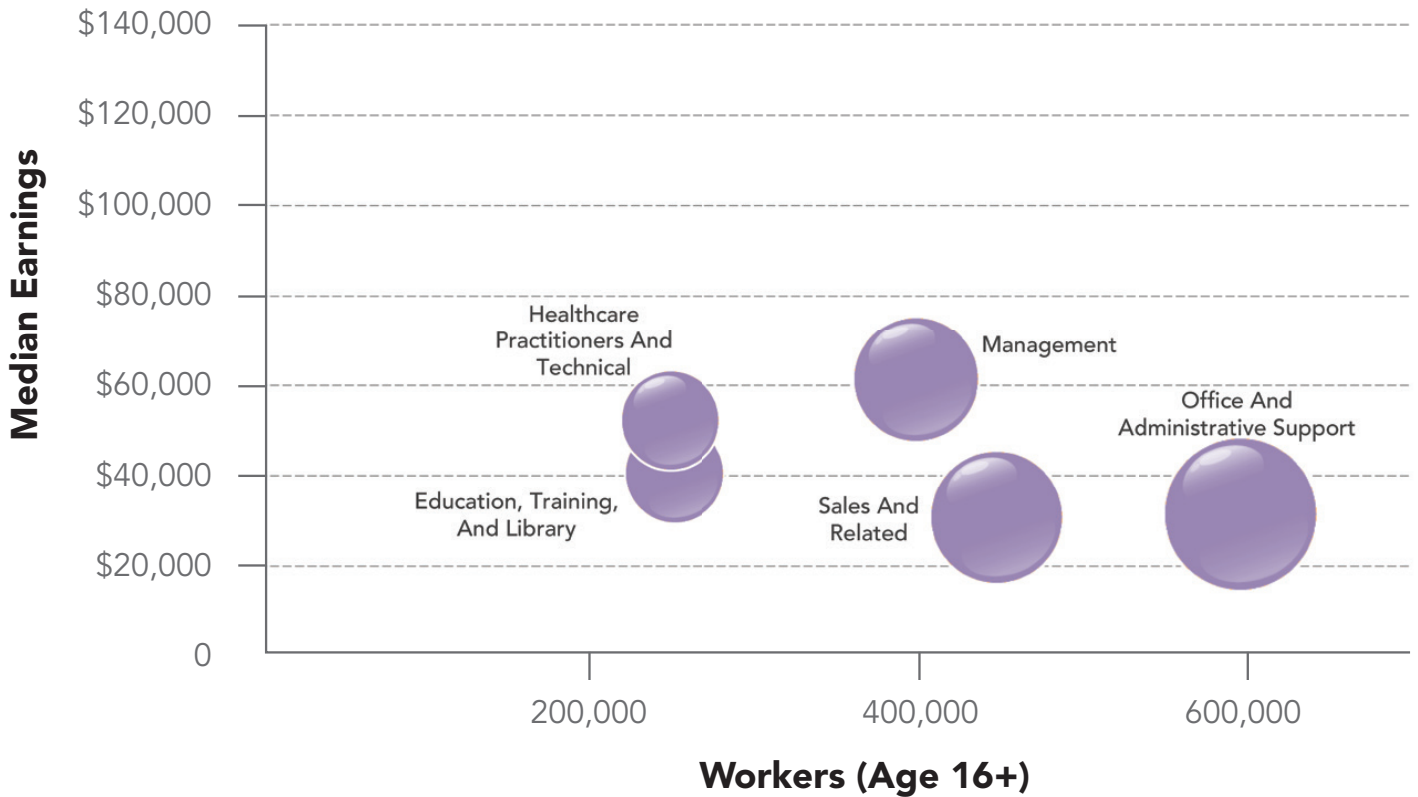
Up and Coming Families

Market Profile

- Rely on the Internet for entertainment, information, shopping, and banking.
- Prefer imported SUVs or compact cars, late models.
- Carry debt from credit card balances to student loans and mortgages, but also maintain retirement plans and make charitable contributions.
- Busy with work and family; use home and landscaping services to save time.
- Find leisure in family activities, movies at home, trips to theme parks or the zoo, and sports; from golfing, weight lifting, to taking a jog or run.

OCCUPATION BY EARNINGS

The five occupations with the highest number of workers in the market are displayed by median earnings. Data from the Census Bureau's American Community Survey.





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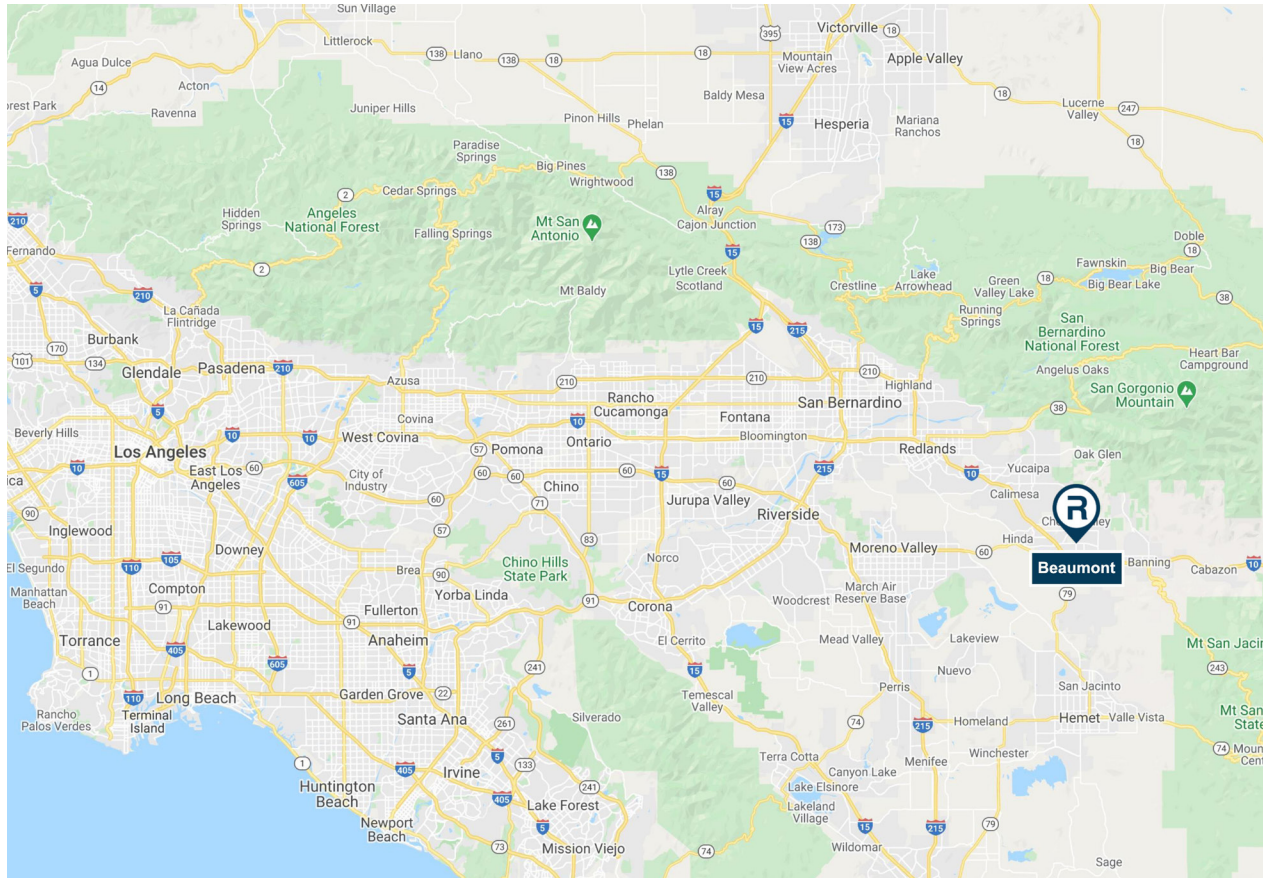


BEAUMONT, CALIFORNIA

Community Workplace Population



Community



Prepared for:



City of Beaumont, CA
 Kyle Warsinski
 Economic Development Manager

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About The Retail Coach

The Retail Coach is a national retail recruitment and development firm that combines strategy, technology, and creative expertise to develop and deliver high-impact retail recruitment and development plans to local governments, chambers of commerce, economic development organizations and private developers.

Through its unique Retail360® Process, The Retail Coach offers a dynamic system of products and services that better enable communities to maximize their retail development potential.

Retail360® Process

Providing more than simple data reports of psychographic and demographic trends, The Retail Coach goes well beyond other retail consulting and market research firms' offerings by combining current national and statewide demographics and trend data with real-world, "on-the-ground" information gathered through extensive visits to our clients' communities. Every community is different, and there is no "one size fits all" retail recruitment solution. Compiling the gathered data into client-tailored information packets that are uniquely designed for, and targeted to, specific retailers and restaurants who meet the community's needs help assure our clients that they are receiving the latest and best information for targeted retail recruitment efforts – all with personal service and coaching guidance that continues beyond the initial project scope and timeline.

Our Retail360® Process assures that communities get timely, accurate and relevant information. Translating that data into the information that retailers need and seek assures our clients even better possibilities for tremendous retail growth and success.



Community • Workplace Population

Beaumont, California

Item 6.

BUSINESS DESCRIPTION	TOTAL ESTABLISHMENTS	TOTAL EMPLOYEES	EMPLOYEES PER ESTABLISHMENT
Grand Total	1,131	8,737	8
11: Agriculture, Forestry, Fishing and Hunting	5	32	6
111: Crop Production	2	16	8
112: Animal Production and Aquaculture	2	14	7
113: Forestry and Logging	0	0	0
114: Fishing, Hunting and Trapping	0	0	0
115: Support Activities for Agriculture and Forestry	1	2	2
21: Mining, Quarrying, and Oil and Gas Extraction	1	4	4
211: Oil and Gas Extraction	1	4	4
212: Mining (except Oil and Gas)	0	0	0
213: Support Activities for Mining	0	0	0
22: Utilities	1	13	13
221: Utilities	1	13	13
23: Construction	91	362	4
236: Construction of Buildings	26	81	3
237: Heavy and Civil Engineering Construction	9	86	10
238: Specialty Trade Contractors	56	195	3
31: Manufacturing	4	177	44
311: Food Manufacturing	4	177	44
312: Beverage and Tobacco Product Manufacturing	0	0	0
313: Textile Mills	0	0	0
314: Textile Product Mills	0	0	0
315: Apparel Manufacturing	0	0	0
316: Leather and Allied Product Manufacturing	0	0	0
32: Manufacturing	5	164	33
321: Wood Product Manufacturing	1	5	5
322: Paper Manufacturing	0	0	0
323: Printing and Related Support Activities	1	2	2
324: Petroleum and Coal Products Manufacturing	0	0	0
325: Chemical Manufacturing	0	0	0
326: Plastics and Rubber Products Manufacturing	1	150	150
327: Nonmetallic Mineral Product Manufacturing	2	7	4

Community • Workplace Population

Beaumont, California

Item 6.

BUSINESS DESCRIPTION	TOTAL ESTABLISHMENTS	TOTAL EMPLOYEES	EMPLOYEES PER ESTABLISHMENT
33: Manufacturing	21	438	21
331: Primary Metal Manufacturing	0	0	0
332: Fabricated Metal Product Manufacturing	11	366	33
333: Machinery Manufacturing	1	3	3
334: Computer and Electronic Product Manufacturing	1	6	6
335: Electrical Equipment, Appliance, and Component Manufacturing	0	0	0
336: Transportation Equipment Manufacturing	1	10	10
337: Furniture and Related Product Manufacturing	2	8	4
339: Miscellaneous Manufacturing	5	45	9
42: Wholesale Trade	22	143	7
423: Merchant Wholesalers, Durable Goods	19	133	7
424: Merchant Wholesalers, Nondurable Goods	2	8	4
425: Wholesale Electronic Markets and Agents and Brokers	1	2	2
44: Retail Trade	106	1,037	10
441: Motor Vehicle and Parts Dealers	22	97	4
442: Furniture and Home Furnishings Stores	8	39	5
443: Electronics and Appliance Stores	3	106	35
444: Building Material and Garden Equipment and Supplies Dealers	19	266	14
445: Food and Beverage Stores	22	373	17
446: Health and Personal Care Stores	13	76	6
447: Gasoline Stations	15	70	5
448: Clothing and Clothing Accessories Stores	4	10	3
45: Retail Trade	49	797	16
451: Sporting Goods, Hobby, Musical Instrument, and Book Stores	6	22	4
452: General Merchandise Stores	13	677	52
453: Miscellaneous Store Retailers	20	51	3
454: Nonstore Retailers	10	47	5
48: Transportation and Warehousing	17	92	5
481: Air Transportation	0	0	0
482: Rail Transportation	0	0	0
483: Water Transportation	0	0	0
484: Truck Transportation	10	35	4
485: Transit and Ground Passenger Transportation	4	49	12
486: Pipeline Transportation	0	0	0
487: Scenic and Sightseeing Transportation	0	0	0
488: Support Activities for Transportation	3	8	3
49: Transportation and Warehousing	3	6	2
491: Postal Service	2	3	2
492: Couriers and Messengers	0	0	0
493: Warehousing and Storage	1	3	3

Community • Workplace Population

Beaumont, California

Item 6.

BUSINESS DESCRIPTION	TOTAL ESTABLISHMENTS	TOTAL EMPLOYEES	EMPLOYEES PER ESTABLISHMENT
51: Information	16	77	5
511: Publishing Industries (except Internet)	3	16	5
512: Motion Picture and Sound Recording Industries	1	2	2
515: Broadcasting (except Internet)	1	10	10
517: Telecommunications	9	38	4
518: Data Processing, Hosting, and Related Services	1	3	3
519: Other Information Services	1	8	8
52: Finance and Insurance	41	149	4
521: Monetary Authorities-Central Bank	0	0	0
522: Credit Intermediation and Related Activities	23	103	4
523: Securities, Commodity Contracts, and Other Financial Investments and Related Activities	8	22	3
524: Insurance Carriers and Related Activities	10	24	2
525: Funds, Trusts, and Other Financial Vehicles	0	0	0
53: Real Estate and Rental and Leasing	64	212	3
531: Real Estate	49	181	4
532: Rental and Leasing Services	15	31	2
533: Lessors of Nonfinancial Intangible Assets (except Copyrighted Works)	0	0	0
54: Professional, Scientific, and Technical Services	72	521	7
541: Professional, Scientific, and Technical Services	72	521	7
55: Management of Companies and Enterprises	1	3	3
551: Management of Companies and Enterprises	1	3	3
56: Administrative and Support and Waste Management and Remediation Services	26	145	6
561: Administrative and Support Services	25	143	6
562: Waste Management and Remediation Services	1	2	2
61: Educational Services	32	898	28
611: Educational Services	32	898	28
62: Health Care and Social Assistance	188	980	5
621: Ambulatory Health Care Services	139	526	4
622: Hospitals	3	23	8
623: Nursing and Residential Care Facilities	5	266	53
624: Social Assistance	41	165	4
71: Arts, Entertainment, and Recreation	21	202	10
711: Performing Arts, Spectator Sports, and Related Industries	4	10	3
712: Museums, Historical Sites, and Similar Institutions	4	15	4
713: Amusement, Gambling, and Recreation Industries	13	177	14

Community • Workplace Population

Beaumont, California

Item 6.

BUSINESS DESCRIPTION	TOTAL ESTABLISHMENTS	TOTAL EMPLOYEES	EMPLOYEES PER ESTABLISHMENT
72: Accommodation and Food Services	93	1,185	13
721: Accommodation	10	47	5
722: Food Services and Drinking Places	83	1,138	14
81: Other Services (except Public Administration)	130	525	4
811: Repair and Maintenance	40	136	3
812: Personal and Laundry Services	59	252	4
813: Religious, Grantmaking, Civic, Professional, and Similar Organizations	31	137	4
92: Public Administration	15	555	37
921: Executive, Legislative, and Other General Government Support	11	405	37
922: Justice, Public Order, and Safety Activities	3	147	49
923: Administration of Human Resource Programs	0	0	0
924: Administration of Environmental Quality Programs	0	0	0
925: Administration of Housing Programs, Urban Planning, and Community Development	0	0	0
926: Administration of Economic Programs	0	0	0
927: Space Research and Technology	0	0	0
928: National Security and International Affairs	1	3	3
99: Unassigned	107	20	0
999: Unassigned	107	20	0



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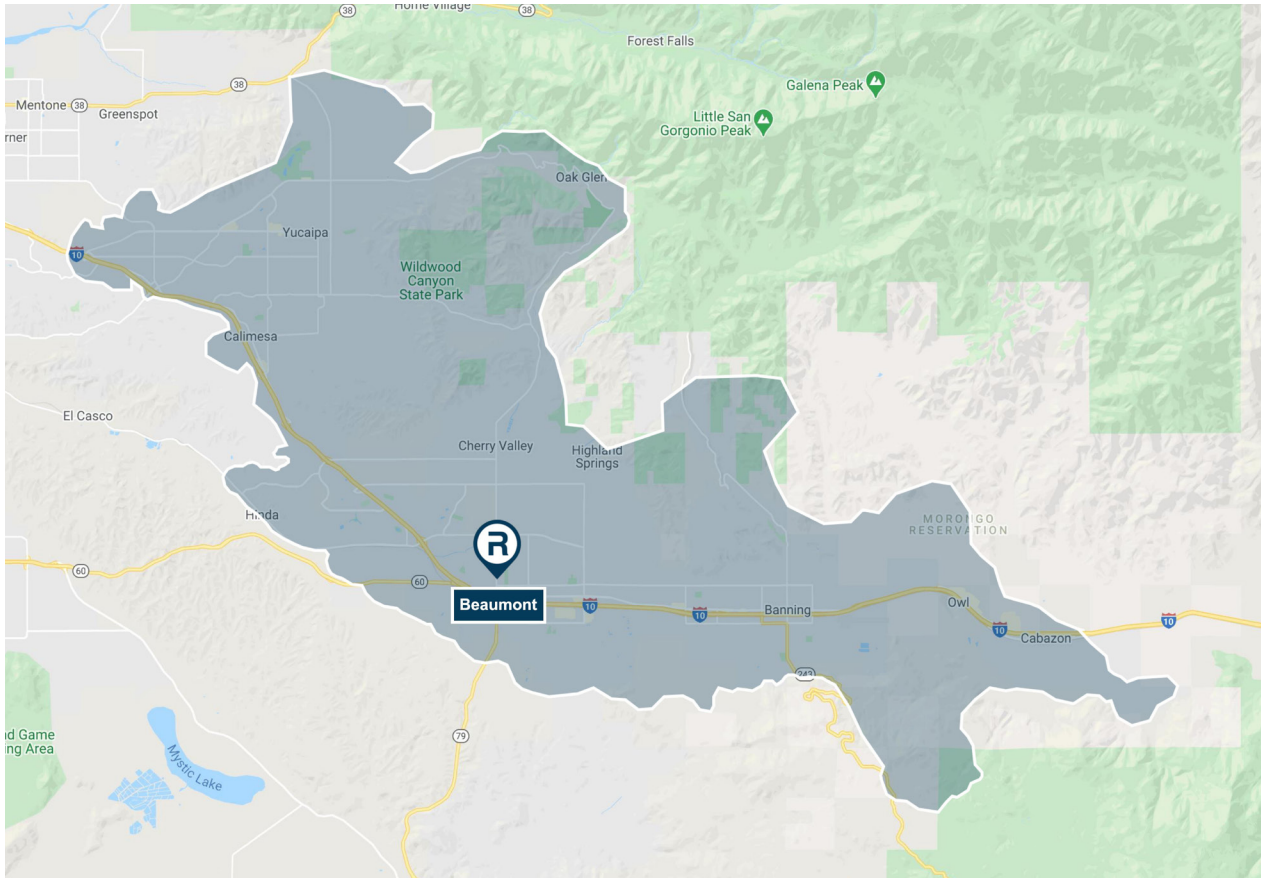
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BEAUMONT, CALIFORNIA



Primary Retail Trade Area Retail Demand Outlook

Primary Retail Trade Area



Prepared for:



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Primary Retail Trade Area • Retail Demand Outlook

Beaumont, California

Item 6.

NAICS	DESCRIPTION	2021 DEMAND	2026 DEMAND	GROWTH	CAGR (%)*
44, 45, 722	Total retail trade including food and drinking places	\$1,407,788,100	\$1,638,463,021	\$230,674,921	3.08%
441	Motor vehicle and parts dealers	\$250,560,011	\$303,110,357	\$52,550,346	3.88%
4411	Automobile dealers	\$217,405,052	\$264,320,298	\$46,915,246	3.99%
4412	Other motor vehicle dealers	\$8,865,068	\$10,977,470	\$2,112,402	4.37%
4413	Automotive parts, accessories, and tire stores	\$24,289,891	\$27,812,589	\$3,522,698	2.75%
442	Furniture and home furnishings stores	\$14,894,147	\$15,994,821	\$1,100,674	1.44%
4421	Furniture stores	\$9,161,346	\$9,792,701	\$631,355	1.34%
4422	Home furnishings stores	\$5,732,801	\$6,202,120	\$469,319	1.59%
443	Electronics and appliance stores	\$26,559,862	\$31,521,945	\$4,962,082	3.49%
443141	Household appliance stores	\$6,215,719	\$7,174,340	\$958,621	2.91%
443142	Electronics stores	\$20,344,143	\$24,347,605	\$4,003,462	3.66%
444	Building material and garden equipment and supplies dealers	\$78,865,285	\$87,668,884	\$8,803,599	2.14%
4441	Building material and supplies dealers	\$69,039,601	\$76,685,301	\$7,645,700	2.12%
44411	Home centers	\$39,394,142	\$43,828,468	\$4,434,326	2.16%
44412	Paint and wallpaper stores	\$2,524,340	\$2,806,602	\$282,262	2.14%
44413	Hardware stores	\$6,695,797	\$7,419,229	\$723,432	2.07%
44419	Other building material dealers	\$20,425,322	\$22,631,002	\$2,205,679	2.07%
4442	Lawn and garden equipment and supplies stores	\$9,825,684	\$10,983,583	\$1,157,899	2.25%
44421	Outdoor power equipment stores	\$1,846,973	\$2,046,738	\$199,765	2.08%
44422	Nursery, garden center, and farm supply stores	\$7,978,711	\$8,936,845	\$958,134	2.29%
445	Food and beverage stores	\$224,505,645	\$244,485,424	\$19,979,780	1.72%
4451	Grocery stores	\$207,555,355	\$225,734,686	\$18,179,332	1.69%
44511	Supermarkets and other grocery (except convenience) stores	\$199,385,958	\$216,835,187	\$17,449,229	1.69%
44512	Convenience stores	\$8,169,397	\$8,899,499	\$730,102	1.73%
4452	Specialty food stores	\$6,299,818	\$6,768,433	\$468,615	1.45%
4453	Beer, wine, and liquor stores	\$10,650,473	\$11,982,306	\$1,331,833	2.38%
446	Health and personal care stores	\$34,917,224	\$41,649,501	\$6,732,277	3.59%
44611	Pharmacies and drug stores	\$26,465,891	\$31,490,396	\$5,024,506	3.54%
44612	Cosmetics, beauty supplies, and perfume stores	\$1,552,720	\$1,919,489	\$366,769	4.33%
44613	Optical goods stores	\$5,446,198	\$6,490,057	\$1,043,859	3.57%
44619	Other health and personal care stores	\$1,452,415	\$1,749,559	\$297,144	3.79%
447	Gasoline stations	\$117,062,626	\$150,145,489	\$33,082,864	5.10%

Primary Retail Trade Area • Retail Demand Outlook

Beaumont, California

Item 6.

NAICS	DESCRIPTION	2021 DEMAND	2026 DEMAND	GROWTH	CAGR (%)*
448	Clothing and clothing accessories stores	\$46,309,206	\$50,539,755	\$4,230,549	1.76%
4481	Clothing stores	\$33,616,804	\$36,204,282	\$2,587,478	1.49%
44811	Men's clothing stores	\$1,424,826	\$1,533,244	\$108,418	1.48%
44812	Women's clothing stores	\$6,107,320	\$6,549,086	\$441,766	1.41%
44813	Children's and infants' clothing stores	\$1,693,585	\$1,817,858	\$124,273	1.43%
44814	Family clothing stores	\$20,739,436	\$22,388,176	\$1,648,740	1.54%
44815	Clothing accessories stores	\$1,117,309	\$1,206,876	\$89,567	1.55%
44819	Other clothing stores	\$2,534,328	\$2,709,042	\$174,714	1.34%
4482	Shoe stores	\$9,752,404	\$10,990,511	\$1,238,107	2.42%
4483	Jewelry, luggage, and leather goods stores	\$2,939,998	\$3,344,962	\$404,964	2.61%
44831	Jewelry stores	\$2,165,525	\$2,498,068	\$332,543	2.90%
44832	Luggage and leather goods stores	\$774,473	\$846,894	\$72,421	1.80%
451	Sporting goods, hobby, musical instrument, and book stores	\$18,412,626	\$21,972,196	\$3,559,570	3.60%
4511	Sporting goods, hobby, and musical instrument stores	\$14,368,561	\$17,664,190	\$3,295,629	4.22%
45111	Sporting goods stores	\$9,037,374	\$11,409,891	\$2,372,517	4.77%
45112	Hobby, toy, and game stores	\$2,608,068	\$2,915,048	\$306,980	2.25%
45113	Sewing, needlework, and piece goods stores	\$546,575	\$601,841	\$55,266	1.95%
45114	Musical instrument and supplies stores	\$2,176,544	\$2,737,411	\$560,867	4.69%
4512	Book stores and news dealers	\$4,044,065	\$4,308,006	\$263,940	1.27%
452	General merchandise stores	\$190,790,115	\$213,007,625	\$22,217,510	2.23%
4522	Department stores	\$12,145,447	\$13,509,342	\$1,363,895	2.15%
4523	Other general merchandise stores	\$178,644,668	\$199,498,284	\$20,853,615	2.23%
453	Miscellaneous store retailers	\$27,582,168	\$31,100,921	\$3,518,754	2.43%
4531	Florists	\$1,019,081	\$1,126,131	\$107,050	2.02%
4532	Office supplies, stationery, and gift stores	\$5,560,271	\$6,072,401	\$512,130	1.78%
45321	Office supplies and stationery stores	\$2,046,752	\$2,237,213	\$190,460	1.80%
45322	Gift, novelty, and souvenir stores	\$3,513,518	\$3,835,188	\$321,670	1.77%
4533	Used merchandise stores	\$5,005,984	\$5,644,215	\$638,231	2.43%
4539	Other miscellaneous store retailers	\$15,996,832	\$18,258,174	\$2,261,343	2.68%
45391	Pet and pet supplies stores	\$6,423,762	\$7,820,024	\$1,396,262	4.01%
45399	All other miscellaneous store retailers	\$9,573,070	\$10,438,150	\$865,081	1.75%
454	Non-store retailers	\$182,851,749	\$207,621,701	\$24,769,952	2.57%
722	Food services and drinking places	\$194,477,436	\$239,644,402	\$45,166,965	4.27%
7223	Special food services	\$13,562,773	\$16,730,950	\$3,168,177	4.29%
7224	Drinking places (alcoholic beverages)	\$5,220,958	\$6,170,527	\$949,570	3.40%
7225	Restaurants and other eating places	\$175,693,705	\$216,742,924	\$41,049,218	4.29%
722511	Full-service restaurants	\$83,686,896	\$102,897,693	\$19,210,796	4.22%
722513	Limited-service restaurants	\$78,023,686	\$96,594,830	\$18,571,144	4.36%
722514	Cafeterias, grill buffets, and buffets	\$1,986,413	\$2,459,726	\$473,313	4.37%
722515	Snack and nonalcoholic beverage bars	\$11,996,710	\$14,790,675	\$2,793,964	4.28%



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* Compound annual growth rate (CAGR) is the geometric progression ratio that provides a constant rate of return over the time period. CAGR dampens the effect of volatility of periodic growth.

 **TheRetailCoach**®

BEAUMONT, CALIFORNIA



Primary Retail Trade Area Gap/Opportunity Analysis

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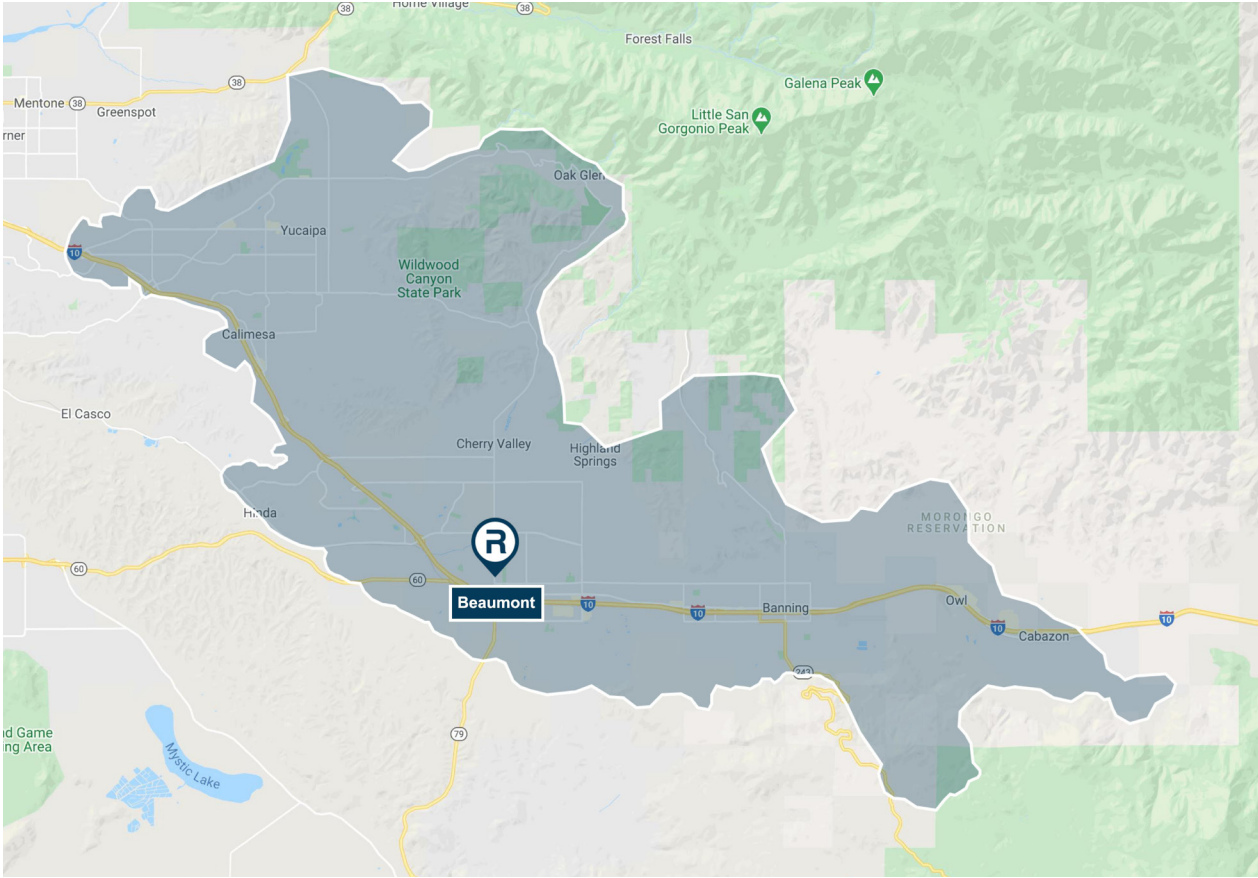
Retail:360® Process

Providing more than simple data reports of psychographic and demographic trends, The Retail Coach goes well beyond other retail consulting and market research firms' offerings by combining current national and statewide demographics and trend data with real-world, "on-the-ground" information gathered through extensive visits to our clients' communities. Every community is different, and there is no "one size fits all" retail recruitment solution. Compiling the gathered data into client-tailored information packets that are uniquely designed for, and targeted to, specific retailers and restaurants who meet the community's needs help assure our clients that they are receiving the latest and best information for targeted retail recruitment efforts – all with personal service and coaching guidance that continues beyond the initial project scope and timeline.

Our Retail:360® Process assures that communities get timely, accurate and relevant information. Translating that data into the information that retailers need and seek assures our clients even better possibilities for tremendous retail growth and success.



Primary Retail Trade Area



Prepared for:



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Primary Retail Trade Area • Gap/Opportunity Analysis

Beaumont, California

Item 6.

NAICS	DESCRIPTION	POTENTIAL SALES	ACTUAL SALES	LEAKAGE	INDEX
44, 45, 722	Total retail trade including food and drinking places	\$5,118,102,497	\$590,746,969	\$4,527,355,528	0.12
441	Motor vehicle and parts dealers	\$938,492,325	\$106,632,658	\$831,859,667	0.11
4411	Automobile dealers	\$826,204,202	\$74,567,202	\$751,637,000	0.09
4412	Other motor vehicle dealers	\$46,380,363	\$12,892,456	\$33,487,907	0.28
4413	Automotive parts, accessories, and tire stores	\$65,907,759	\$19,173,000	\$46,734,759	0.29
442	Furniture and home furnishings stores	\$99,042,429	\$6,617,139	\$92,425,290	0.07
4421	Furniture stores	\$48,132,372	\$1,396,820	\$46,735,552	0.03
4422	Home furnishings stores	\$50,910,056	\$5,220,319	\$45,689,737	0.10
443	Electronics and appliance stores	\$77,226,575	\$2,295,226	\$74,931,349	0.03
443141	Household appliance stores	\$9,709,439	\$0	\$9,709,439	0.00
443142	Electronics stores	\$67,517,136	\$2,295,226	\$65,221,910	0.03
444	Building material and garden equipment and supplies dealers	\$256,316,617	\$38,867,523	\$217,449,094	0.15
4441	Building material and supplies dealers	\$241,431,672	\$37,747,297	\$203,684,375	0.16
44411	Home centers	\$110,857,071	\$29,181,512	\$81,675,559	0.26
44412	Paint and wallpaper stores	\$17,608,679	\$0	\$17,608,679	0.00
44413	Hardware stores	\$25,352,388	\$4,505,638	\$20,846,750	0.18
44419	Other building material dealers	\$87,613,535	\$4,060,147	\$83,553,388	0.05
4442	Lawn and garden equipment and supplies stores	\$14,884,945	\$1,120,226	\$13,764,719	0.08
44421	Outdoor power equipment stores	\$1,763,481	\$592,976	\$1,170,505	0.34
44422	Nursery, garden center, and farm supply stores	\$13,121,464	\$527,250	\$12,594,214	0.04
445	Food and beverage stores	\$684,279,908	\$111,216,158	\$573,063,750	0.16
4451	Grocery stores	\$626,697,292	\$107,408,915	\$519,288,377	0.17
44511	Supermarkets and other grocery (except convenience) stores	\$605,270,905	\$103,993,251	\$501,277,654	0.17
44512	Convenience stores	\$21,426,388	\$3,415,664	\$18,010,724	0.16
4452	Specialty food stores	\$22,900,768	\$0	\$22,900,768	0.00
4453	Beer, wine, and liquor stores	\$34,681,848	\$3,807,243	\$30,874,605	0.11
446	Health and personal care stores	\$271,409,925	\$20,574,490	\$250,835,435	0.08
44611	Pharmacies and drug stores	\$215,419,429	\$18,706,315	\$196,713,114	0.09
44612	Cosmetics, beauty supplies, and perfume stores	\$23,223,853	\$1,254,165	\$21,969,688	0.05
44613	Optical goods stores	\$9,583,326	\$0	\$9,583,326	0.00
44619	Other health and personal care stores	\$23,183,317	\$614,010	\$22,569,307	0.03
447	Gasoline stations	\$309,548,824	\$81,254,632	\$228,294,192	0.26
448	Clothing and clothing accessories stores	\$273,122,742	\$3,819,442	\$269,303,300	0.01
4481	Clothing stores	\$202,323,552	\$1,083,695	\$201,239,857	0.01
44811	Men's clothing stores	\$9,385,986	\$0	\$9,385,986	0.00
44812	Women's clothing stores	\$33,718,775	\$0	\$33,718,775	0.00
44813	Children's and infants' clothing stores	\$7,169,360	\$0	\$7,169,360	0.00
44814	Family clothing stores	\$130,136,958	\$0	\$130,136,958	0.00
44815	Clothing accessories stores	\$8,795,276	\$1,083,695	\$7,711,581	0.12
44819	Other clothing stores	\$13,117,198	\$0	\$13,117,198	0.00
4482	Shoe stores	\$34,202,218	\$1,164,421	\$33,037,797	0.03
4483	Jewelry, luggage, and leather goods stores	\$36,596,972	\$1,571,326	\$35,025,646	0.04
44831	Jewelry stores	\$30,692,661	\$1,571,326	\$29,121,335	0.05
44832	Luggage and leather goods stores	\$5,904,310	\$0	\$5,904,310	0.00

Primary Retail Trade Area • Gap/Opportunity Analysis

Beaumont, California

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NAICS	DESCRIPTION	POTENTIAL SALES	ACTUAL SALES	LEAKAGE	INDEX
451	Sporting goods, hobby, musical instrument, and book stores	\$51,594,867	\$1,894,404	\$49,700,463	0.04
4511	Sporting goods, hobby, and musical instrument stores	\$44,767,951	\$1,894,404	\$42,873,547	0.04
45111	Sporting goods stores	\$27,494,799	\$1,894,404	\$25,600,395	0.07
45112	Hobby, toy, and game stores	\$9,809,439	\$0	\$9,809,439	0.00
45113	Sewing, needlework, and piece goods stores	\$3,315,808	\$0	\$3,315,808	0.00
45114	Musical instrument and supplies stores	\$4,147,904	\$0	\$4,147,904	0.00
4512	Book stores and news dealers	\$6,826,917	\$0	\$6,826,917	0.00
452	General merchandise stores	\$507,862,833	\$101,170,282	\$406,692,551	0.20
4522	Department stores	\$153,030,579	\$9,857,790	\$143,172,789	0.06
4523	Other general merchandise stores	\$354,832,254	\$91,312,492	\$263,519,762	0.26
453	Miscellaneous store retailers	\$93,578,141	\$6,604,289	\$86,973,852	0.07
4531	Florists	\$4,715,134	\$0	\$4,715,134	0.00
4532	Office supplies, stationery, and gift stores	\$22,365,279	\$688,337	\$21,676,942	0.03
45321	Office supplies and stationery stores	\$8,812,953	\$688,337	\$8,124,616	0.08
45322	Gift, novelty, and souvenir stores	\$13,552,327	\$0	\$13,552,327	0.00
4533	Used merchandise stores	\$17,132,052	\$2,765,976	\$14,366,076	0.16
4539	Other miscellaneous store retailers	\$49,365,676	\$3,149,976	\$46,215,700	0.06
45391	Pet and pet supplies stores	\$23,358,081	\$1,612,925	\$21,745,156	0.07
45399	All other miscellaneous store retailers	\$26,007,595	\$1,537,051	\$24,470,544	0.06
454	Non-store retailers	\$855,015,388	\$36,456,185	\$818,559,203	0.04
722	Food services and drinking places	\$700,611,922	\$73,344,541	\$627,267,381	0.10
7223	Special food services	\$49,730,540	\$0	\$49,730,540	0.00
7224	Drinking places (alcoholic beverages)	\$22,158,472	\$0	\$22,158,472	0.00
7225	Restaurants and other eating places	\$628,722,910	\$73,344,541	\$555,378,369	0.12
722511	Full-service restaurants	\$288,375,694	\$19,609,041	\$268,766,653	0.07
722513	Limited-service restaurants	\$273,597,434	\$49,951,643	\$223,645,791	0.18
722514	Cafeterias, grill buffets, and buffets	\$8,468,152	\$0	\$8,468,152	0.00
722515	Snack and nonalcoholic beverage bars	\$58,281,631	\$3,783,857	\$54,497,774	0.06

Primary Retail Trade Area • Demographic Profile

Beaumont, California

Item 6.

DESCRIPTION	DATA	%
Population		
2026 Projection	162,812	
2021 Estimate	155,989	
2010 Census	137,089	
2000 Census	93,345	
Growth 2021 - 2026		4.37%
Growth 2010 - 2021		13.79%
Growth 2000 - 2010		46.86%
2021 Est. Population by Single-Classification Race	155,989	
White Alone	103,409	66.29%
Black or African American Alone	7,763	4.98%
Amer. Indian and Alaska Native Alone	2,702	1.73%
Asian Alone	8,867	5.68%
Native Hawaiian and Other Pacific Island Alone	343	0.22%
Some Other Race Alone	24,135	15.47%
Two or More Races	8,770	5.62%
2021 Est. Population by Hispanic or Latino Origin	155,989	
Not Hispanic or Latino	92,113	59.05%
Hispanic or Latino	63,876	40.95%
Mexican	55,386	86.71%
Puerto Rican	841	1.32%
Cuban	385	0.60%
All Other Hispanic or Latino	7,264	11.37%
2021 Est. Hisp. or Latino Pop by Single-Class. Race	63,876	
White Alone	33,221	52.01%
Black or African American Alone	531	0.83%
American Indian and Alaska Native Alone	1,209	1.89%
Asian Alone	324	0.51%
Native Hawaiian and Other Pacific Islander Alone	44	0.07%
Some Other Race Alone	23,931	37.47%
Two or More Races	4,615	7.23%
2021 Est. Pop by Race, Asian Alone, by Category	8,867	
Chinese, except Taiwanese	1,076	12.14%
Filipino	3,330	37.56%
Japanese	434	4.90%
Asian Indian	671	7.57%
Korean	917	10.34%
Vietnamese	313	3.53%
Cambodian	159	1.79%
Hmong	692	7.80%
Laotian	184	2.08%
Thai	233	2.63%
All Other Asian Races Including 2+ Category	860	9.70%

DESCRIPTION	DATA	%
2021 Est. Population by Ancestry	155,989	
Arab	449	0.29%
Czech	291	0.19%
Danish	680	0.44%
Dutch	2,100	1.35%
English	9,357	6.00%
French (except Basque)	2,846	1.83%
French Canadian	786	0.50%
German	14,826	9.51%
Greek	284	0.18%
Hungarian	799	0.51%
Irish	10,633	6.82%
Italian	5,355	3.43%
Lithuanian	87	0.06%
United States or American	5,198	3.33%
Norwegian	1,865	1.20%
Polish	1,805	1.16%
Portuguese	552	0.35%
Russian	858	0.55%
Scottish	2,198	1.41%
Scotch-Irish	896	0.57%
Slovak	55	0.04%
Subsaharan African	987	0.63%
Swedish	1,503	0.96%
Swiss	191	0.12%
Ukrainian	201	0.13%
Welsh	493	0.32%
West Indian (except Hisp. groups)	245	0.16%
Other ancestries	73,025	46.81%
Ancestry Unclassified	17,424	11.17%
2021 Est. Pop Age 5+ by Language Spoken At Home		
Speak Only English at Home	101,782	69.68%
Speak Asian/Pacific Island Language at Home	4,234	2.90%
Speak IndoEuropean Language at Home	2,666	1.83%
Speak Spanish at Home	36,782	25.18%
Speak Other Language at Home	617	0.42%

Primary Retail Trade Area • Demographic Profile

Beaumont, California

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DESCRIPTION	DATA	%
2021 Est. Population by Age	155,989	
Age 0 - 4	9,907	6.35%
Age 5 - 9	9,862	6.32%
Age 10 - 14	10,262	6.58%
Age 15 - 17	6,243	4.00%
Age 18 - 20	5,706	3.66%
Age 21 - 24	7,723	4.95%
Age 25 - 34	19,605	12.57%
Age 35 - 44	18,986	12.17%
Age 45 - 54	16,943	10.86%
Age 55 - 64	18,161	11.64%
Age 65 - 74	17,385	11.15%
Age 75 - 84	10,932	7.01%
Age 85 and over	4,275	2.74%
Age 16 and over	123,911	79.44%
Age 18 and over	119,715	76.75%
Age 21 and over	114,010	73.09%
Age 65 and over	32,592	20.89%
2021 Est. Median Age		39.49
2021 Est. Average Age		40.81
2021 Est. Population by Sex	155,989	
Male	76,136	48.81%
Female	79,853	51.19%

DESCRIPTION	DATA	%
2021 Est. Male Population by Age	76,136	
Age 0 - 4	5,067	6.66%
Age 5 - 9	5,024	6.60%
Age 10 - 14	5,306	6.97%
Age 15 - 17	3,184	4.18%
Age 18 - 20	2,973	3.91%
Age 21 - 24	4,004	5.26%
Age 25 - 34	9,975	13.10%
Age 35 - 44	9,326	12.25%
Age 45 - 54	8,295	10.90%
Age 55 - 64	8,637	11.34%
Age 65 - 74	7,832	10.29%
Age 75 - 84	4,757	6.25%
Age 85 and over	1,755	2.31%
2021 Est. Median Age, Male		37.64
2021 Est. Average Age, Male		39.77
2021 Est. Female Population by Age	79,853	
Age 0 - 4	4,840	6.06%
Age 5 - 9	4,837	6.06%
Age 10 - 14	4,956	6.21%
Age 15 - 17	3,059	3.83%
Age 18 - 20	2,733	3.42%
Age 21 - 24	3,719	4.66%
Age 25 - 34	9,630	12.06%
Age 35 - 44	9,660	12.10%
Age 45 - 54	8,648	10.83%
Age 55 - 64	9,524	11.93%
Age 65 - 74	9,553	11.96%
Age 75 - 84	6,175	7.73%
Age 85 and over	2,520	3.16%
2021 Est. Median Age, Female		41.30
2021 Est. Average Age, Female		41.82

Primary Retail Trade Area • Demographic Profile

Beaumont, California

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DESCRIPTION	DATA	%
2021 Est. Pop Age 15+ by Marital Status		
Total, Never Married	37,206	29.54%
Males, Never Married	19,696	15.64%
Females, Never Married	17,510	13.90%
Married, Spouse present	58,997	46.84%
Married, Spouse absent	7,290	5.79%
Widowed	9,371	7.44%
Males Widowed	2,047	1.63%
Females Widowed	7,324	5.82%
Divorced	13,094	10.40%
Males Divorced	5,333	4.23%
Females Divorced	7,761	6.16%
2021 Est. Pop Age 25+ by Edu. Attainment		
Less than 9th grade	5,959	5.6%
Some High School, no diploma	7,964	7.5%
High School Graduate (or GED)	31,976	30.1%
Some College, no degree	26,325	24.8%
Associate Degree	10,929	10.3%
Bachelor's Degree	14,491	13.6%
Master's Degree	6,579	6.2%
Professional School Degree	1,164	1.1%
Doctorate Degree	900	0.8%
2021 Est. Pop Age 25+ by Edu. Attain., Hisp./ Lat.		
No High School Diploma	8,796	24.41%
High School Graduate	11,760	32.64%
Some College or Associate's Degree	10,807	29.99%
Bachelor's Degree or Higher	4,670	12.96%
Households		
2026 Projection	57,086	
2021 Estimate	54,782	
2010 Census	48,494	
2000 Census	34,334	
Growth 2021 - 2026		4.21%
Growth 2010 - 2021		12.97%
Growth 2000 - 2010		41.24%
2021 Est. Households by Household Type	54,782	
Family Households	39,215	71.58%
Nonfamily Households	15,567	28.42%
2021 Est. Group Quarters Population	2,467	
2021 Households by Ethnicity, Hispanic/Latino	16,600	

DESCRIPTION	DATA	%
2021 Est. Households by Household Income	54,782	
Income < \$15,000	5,183	9.46%
Income \$15,000 - \$24,999	4,535	8.28%
Income \$25,000 - \$34,999	4,509	8.23%
Income \$35,000 - \$49,999	6,380	11.65%
Income \$50,000 - \$74,999	8,897	16.24%
Income \$75,000 - \$99,999	6,917	12.63%
Income \$100,000 - \$124,999	5,428	9.91%
Income \$125,000 - \$149,999	4,160	7.59%
Income \$150,000 - \$199,999	4,424	8.08%
Income \$200,000 - \$249,999	2,015	3.68%
Income \$250,000 - \$499,999	1,700	3.10%
Income \$500,000+	634	1.16%
2021 Est. Average Household Income		\$92,157
2021 Est. Median Household Income		\$68,512
2021 Median HH Inc. by Single-Class. Race or Eth.		
White Alone		\$66,143
Black or African American Alone		\$85,144
American Indian and Alaska Native Alone		\$66,082
Asian Alone		\$83,447
Native Hawaiian and Other Pacific Islander Alone		\$63,657
Some Other Race Alone		\$69,121
Two or More Races		\$79,433
Hispanic or Latino		\$66,963
Not Hispanic or Latino		\$69,197
2021 Est. Family HH Type by Presence of Own Child.	39,215	
Married-Couple Family, own children	12,068	30.77%
Married-Couple Family, no own children	17,416	44.41%
Male Householder, own children	1,609	4.10%
Male Householder, no own children	1,422	3.63%
Female Householder, own children	3,407	8.69%
Female Householder, no own children	3,293	8.40%
2021 Est. Households by Household Size	54,782	
1-person	12,673	23.13%
2-person	17,536	32.01%
3-person	8,643	15.78%
4-person	7,385	13.48%
5-person	4,530	8.27%
6-person	2,277	4.16%
7-or-more-person	1,738	3.17%
2021 Est. Average Household Size		2.8

Primary Retail Trade Area • Demographic Profile

Beaumont, California

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DESCRIPTION	DATA	%
2021 Est. Households by Presence of People Under 18	54,782	
Households with 1 or More People under Age 18:	19,537	35.66%
Married-Couple Family	13,234	67.74%
Other Family, Male Householder	1,929	9.87%
Other Family, Female Householder	4,211	21.55%
Nonfamily, Male Householder	110	0.56%
Nonfamily, Female Householder	53	0.27%
Households with No People under Age 18:	35,245	64.34%
Married-Couple Family	16,248	46.10%
Other Family, Male Householder	1,111	3.15%
Other Family, Female Householder	2,483	7.05%
Nonfamily, Male Householder	6,474	18.37%
Nonfamily, Female Householder	8,928	25.33%
2021 Est. Households by Number of Vehicles	54,782	
No Vehicles	2,534	4.63%
1 Vehicle	16,242	29.65%
2 Vehicles	19,538	35.67%
3 Vehicles	10,523	19.21%
4 Vehicles	3,717	6.79%
5 or more Vehicles	2,228	4.07%
2021 Est. Average Number of Vehicles		2.1
Family Households		
2026 Projection	40,869	
2021 Estimate	39,215	
2010 Census	34,657	
2000 Census	24,164	
Growth 2021 - 2026		4.22%
Growth 2010 - 2021		13.15%
Growth 2000 - 2010		43.42%
2021 Est. Families by Poverty Status	39,215	
2021 Families at or Above Poverty	35,769	91.21%
2021 Families at or Above Poverty with Children	15,558	39.67%
2021 Families Below Poverty	3,446	8.79%
2021 Families Below Poverty with Children	2,040	5.20%
2021 Est. Pop 16+ by Employment Status	123,911	
Civilian Labor Force, Employed	64,603	52.14%
Civilian Labor Force, Unemployed	3,532	2.85%
Armed Forces	70	0.06%
Not in Labor Force	55,706	44.96%

DESCRIPTION	DATA	%
2021 Est. Civ. Employed Pop 16+ by Class of Worker	63,113	
For-Profit Private Workers	41,087	65.10%
Non-Profit Private Workers	4,352	6.90%
Local Government Workers	1,131	1.79%
State Government Workers	2,631	4.17%
Federal Government Workers	7,835	12.41%
Self-Employed Workers	6,020	9.54%
Unpaid Family Workers	56	0.09%
2021 Est. Civ. Employed Pop 16+ by Occupation	63,113	
Architect/Engineer	576	0.91%
Arts/Entertainment/Sports	918	1.46%
Building Grounds Maintenance	2,274	3.60%
Business/Financial Operations	2,081	3.30%
Community/Social Services	1,212	1.92%
Computer/Mathematical	1,022	1.62%
Construction/Extraction	3,895	6.17%
Education/Training/Library	4,119	6.53%
Farming/Fishing/Forestry	394	0.62%
Food Prep/Serving	3,556	5.63%
Health Practitioner/Technician	4,913	7.78%
Healthcare Support	2,635	4.18%
Maintenance Repair	2,706	4.29%
Legal	477	0.76%
Life/Physical/Social Science	459	0.73%
Management	4,761	7.54%
Office/Admin. Support	7,581	12.01%
Production	2,919	4.63%
Protective Services	2,041	3.23%
Sales/Related	6,957	11.02%
Personal Care/Service	1,904	3.02%
Transportation/Moving	5,715	9.06%
2021 Est. Pop 16+ by Occupation Classification	63,113	
White Collar	35,076	55.58%
Blue Collar	15,235	24.14%
Service and Farm	12,803	20.29%
2021 Est. Workers Age 16+ by Transp. to Work	61,609	
Drove Alone	50,886	82.60%
Car Pooled	5,392	8.75%
Public Transportation	418	0.68%
Walked	829	1.35%
Bicycle	27	0.04%
Other Means	1,541	2.50%
Worked at Home	2,517	4.09%

Primary Retail Trade Area • Demographic Profile

Beaumont, California

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DESCRIPTION	DATA	%
2021 Est. Workers Age 16+ by Travel Time to Work		
Less than 15 Minutes	13,976	
15 - 29 Minutes	17,572	
30 - 44 Minutes	15,249	
45 - 59 Minutes	5,581	
60 or more Minutes	6,769	
2021 Est. Avg Travel Time to Work in Minutes		33
2021 Est. Occupied Housing Units by Tenure	54,782	
Owner Occupied	40,623	74.15%
Renter Occupied	14,159	25.85%
2021 Owner Occ. HUs: Avg. Length of Residence		13.55
2021 Renter Occ. HUs: Avg. Length of Residence		6.5
2021 Est. Owner-Occupied Housing Units by Value	54,782	
Value Less than \$20,000	1,585	3.90%
Value \$20,000 - \$39,999	1,501	3.70%
Value \$40,000 - \$59,999	759	1.87%
Value \$60,000 - \$79,999	584	1.44%
Value \$80,000 - \$99,999	411	1.01%
Value \$100,000 - \$149,999	1,005	2.47%
Value \$150,000 - \$199,999	1,781	4.38%
Value \$200,000 - \$299,999	7,012	17.26%
Value \$300,000 - \$399,999	10,214	25.14%
Value \$400,000 - \$499,999	7,323	18.03%
Value \$500,000 - \$749,999	5,544	13.65%
Value \$750,000 - \$999,999	1,740	4.28%
Value \$1,000,000 or \$1,499,999	559	1.38%
Value \$1,500,000 or \$1,999,999	147	0.36%
Value \$2,000,000+	458	1.13%
2021 Est. Median All Owner-Occupied Housing Value		\$355,364
2021 Est. Housing Units by Units in Structure		
1 Unit Detached	43,532	72.97%
1 Unit Attached	1454	2.44%
2 Units	788	1.32%
3 or 4 Units	1,331	2.23%
5 to 19 Units	1,722	2.89%
20 to 49 Units	569	0.95%
50 or More Units	753	1.26%
Mobile Home or Trailer	9,444	15.83%
Boat, RV, Van, etc.	65	0.11%

DESCRIPTION	DATA	%
2021 Est. Housing Units by Year Structure Built		
Housing Units Built 2014 or later	6,098	10.22%
Housing Units Built 2010 to 2014	1,544	2.59%
Housing Units Built 2000 to 2009	15,649	26.23%
Housing Units Built 1990 to 1999	6,125	10.27%
Housing Units Built 1980 to 1989	6,639	11.13%
Housing Units Built 1970 to 1979	7,542	12.64%
Housing Units Built 1960 to 1969	6,447	10.81%
Housing Units Built 1950 to 1959	5,870	9.84%
Housing Units Built 1940 to 1949	2,199	3.69%
Housing Unit Built 1939 or Earlier	1,544	2.59%
2021 Est. Median Year Structure Built		1989



ACKNOWLEDGMENTS

The observations, conclusions and recommendations contained in this study are solely those of The Retail Coach, LLC and should not be construed to represent the opinions of others, including its clients, or any other entity prior to such entity's express approval of this study.

All information furnished is from sources deemed reliable and is submitted subject to errors, omissions, change of terms and/or conditions.

Sources used in completing this study include: infoUSA™, Applied Geographic Solutions, Environics Analytics, ESRI, U.S. Census Bureau, Economy.com, Placer.AI, Spatial Insights Inc., Urban Land Institute, CensusViewer.com, International Council of Shopping Centers, and/or U.S. Bureau of Labor and Statistics. To better represent current data, where applicable, portions of estimated actual sales may be calculated using an average sales per square foot model. Mapping data is provided by Google, Nielsen, ESRI and/or Microsoft Corporation.

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Council Update:

Retail Market Analysis & Recruitment Strategy

5/4/2021



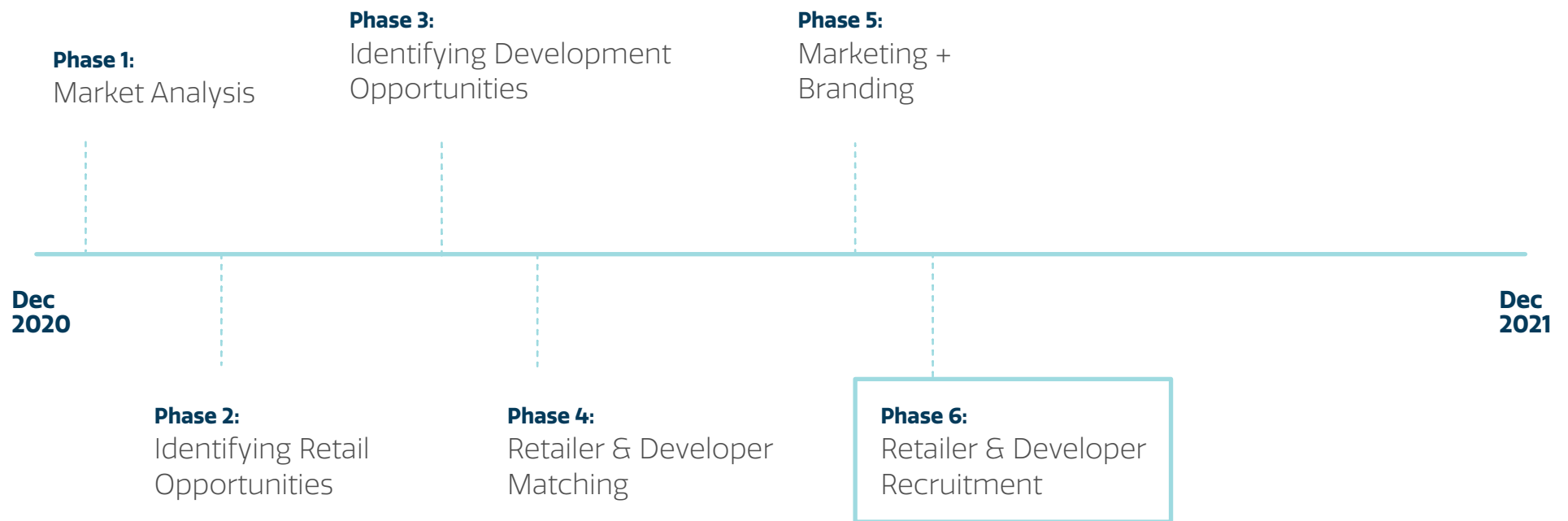
The city of Beaumont has hired The Retail Coach to provide a **Retail Market Analysis.**

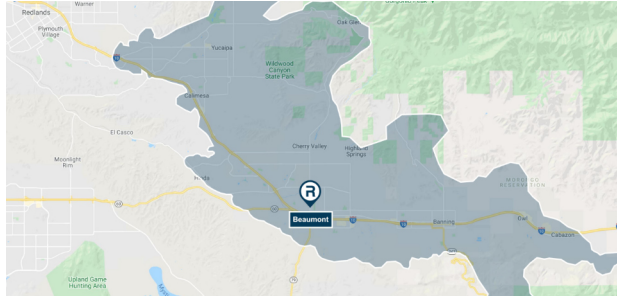
The analysis will be incorporated into the City's ongoing strategic planning efforts and used to highlight opportunities to grow or expand the City's retail base.

Key Objectives:

- **Study retail consumer activity in the City**
To better understand the Beaumont consumer base and current retail market.
- **Identify opportunities to grow/expand the City's retail base**
- **Be a resource to local business owners in Beaumont**
By providing data, consumer insights, and practical recommendations for reaching potential customers.

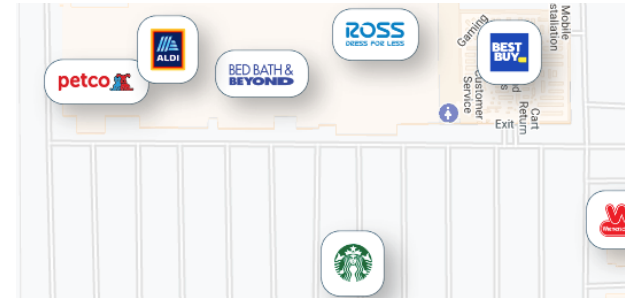
Council Update:
Scope of Work & Progress





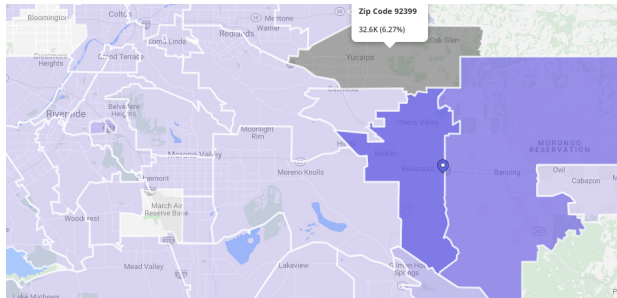
Retail Trade Area Analysis:

Where people are coming from to shop/dine in Beaumont.



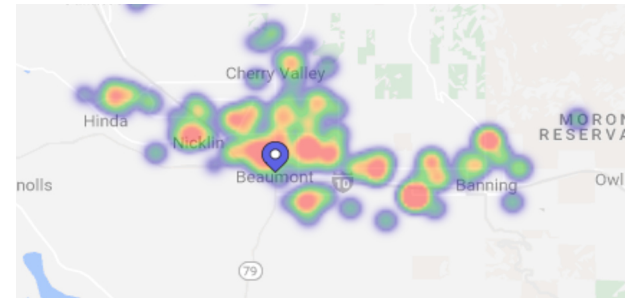
Retail Opportunities in Beaumont:

Projected demand growth across various retail sectors in Beaumont.



Zip Code Analysis:

Top zip codes people are coming from to shop/dine in Beaumont.



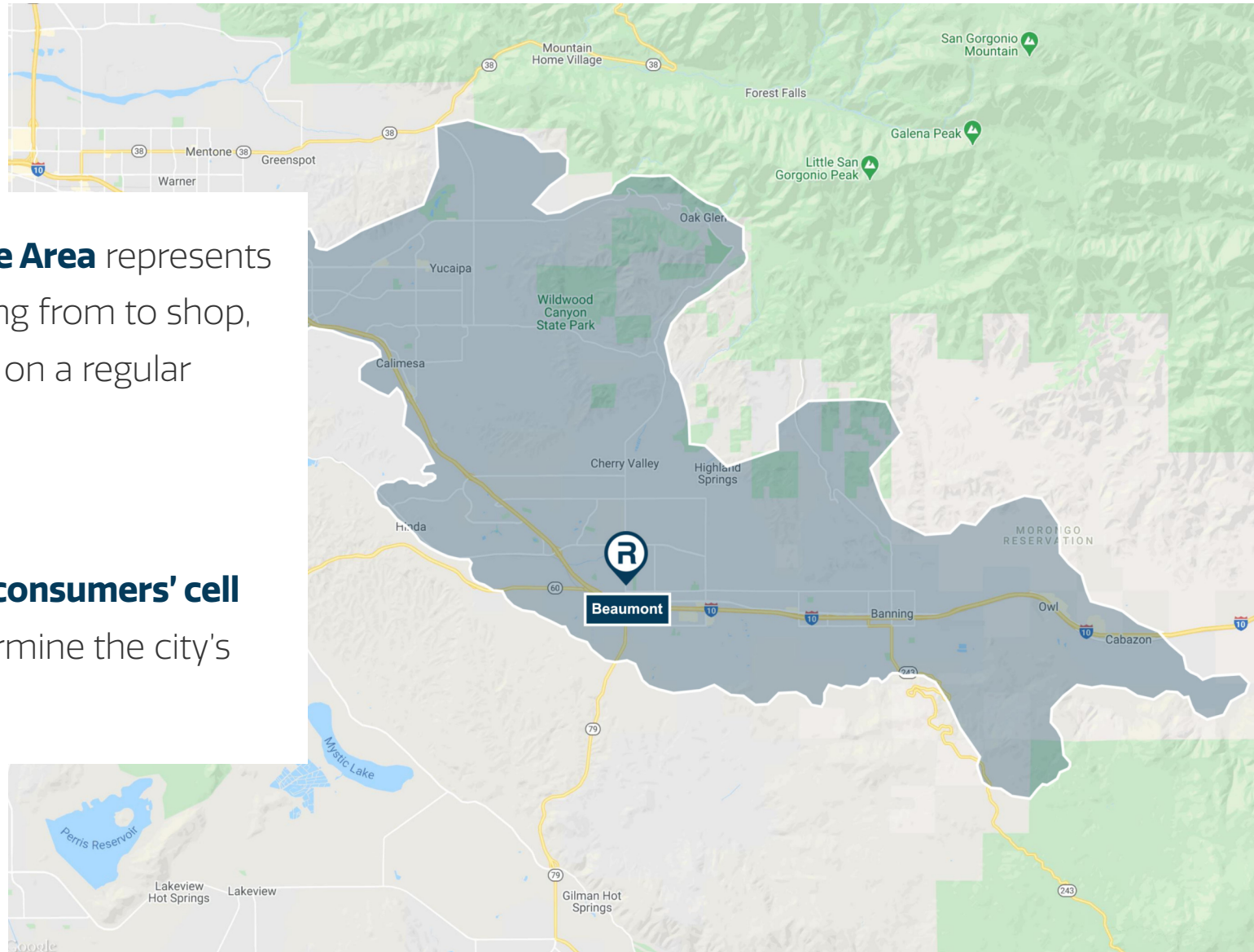
Retail Leakage Analysis:

Most frequented stores and restaurants people are going to outside of Beaumont.

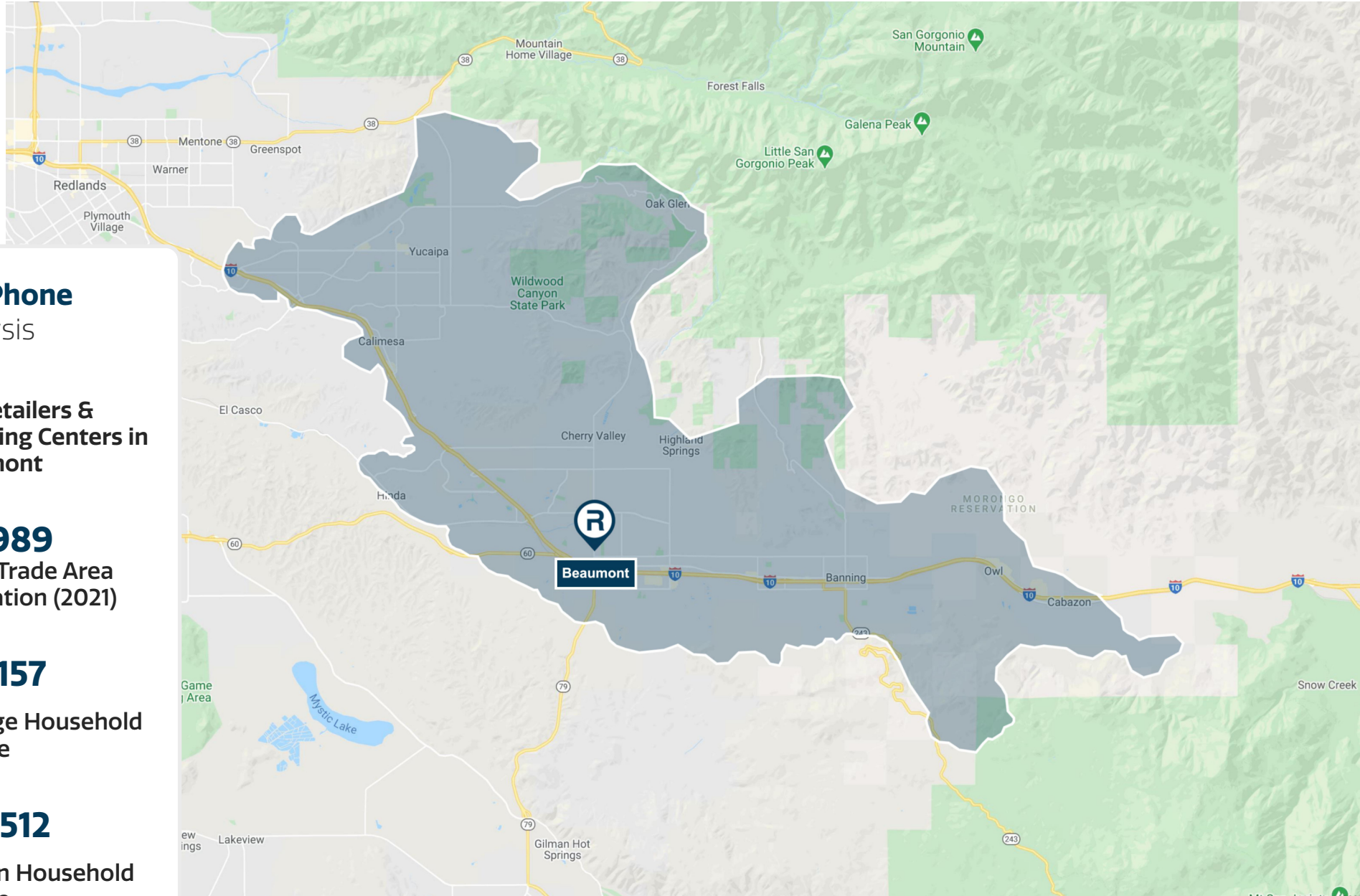
Retail Trade Area Analysis

Beaumont's **Retail Trade Area** represents where people are coming from to shop, dine, or receive services on a regular basis.

We use **GPS data from consumers' cell phones** to actually determine the city's retail trade area.



Primary Retail Trade Area



Cell Phone
Analysis

Key Retailers & Shopping Centers in Beaumont

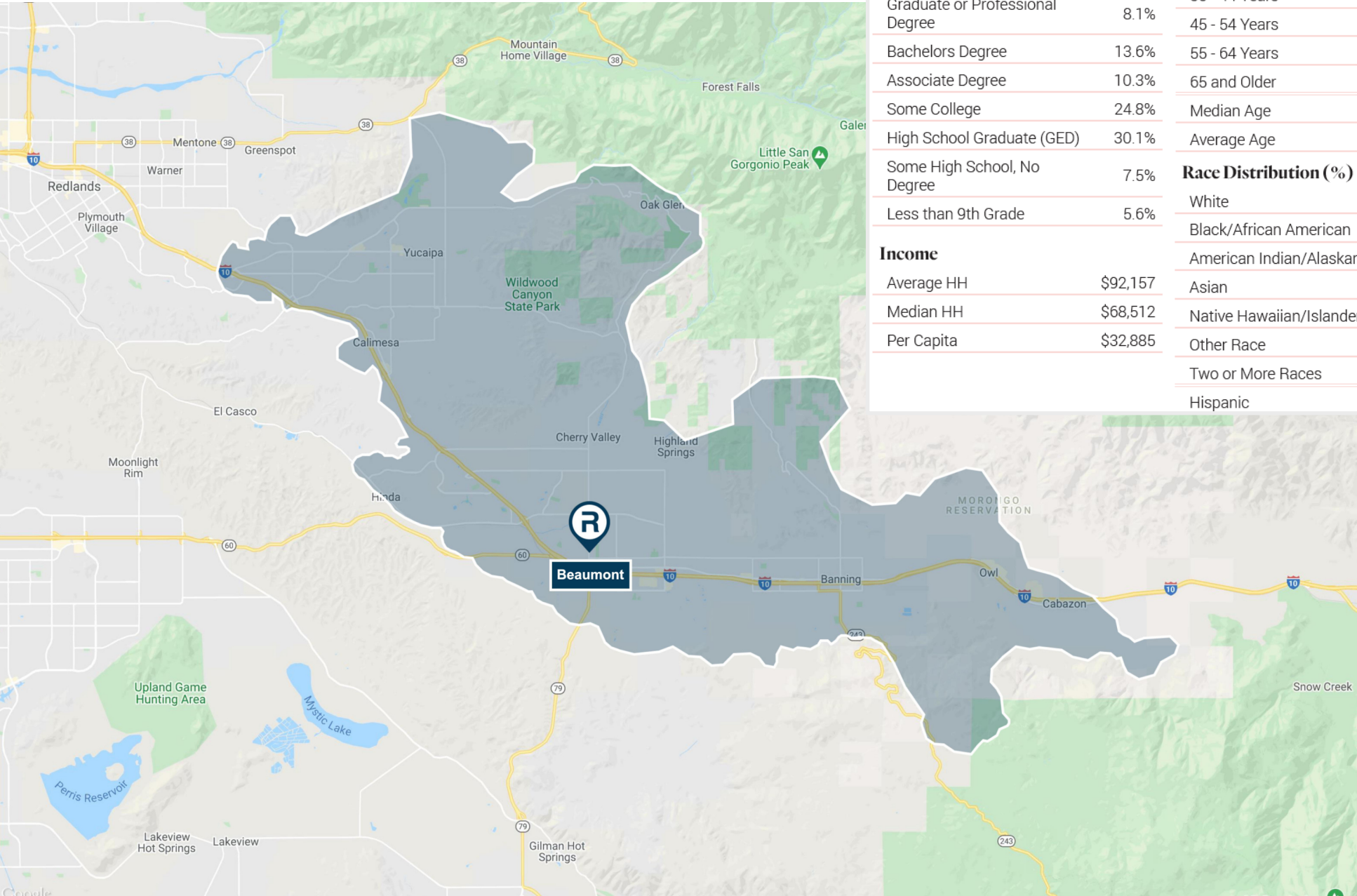
155,989
Retail Trade Area Population (2021)

\$92,157
Average Household Income

\$68,512
Median Household Income

The Beaumont Retail Market:

Primary Retail Trade Area



Population

2010	137,089
2021	155,989
2026	162,812

Age

0 - 9 Years	10.37%
10 - 17 Years	10.38%
18 - 24 Years	8.61%
25 - 34 Years	12.57%
35 - 44 Years	12.17%
45 - 54 Years	10.86%
55 - 64 Years	11.64%
65 and Older	20.89%
Median Age	39.49
Average Age	40.81

Educational Attainment (%)

Graduate or Professional Degree	8.1%
Bachelors Degree	13.6%
Associate Degree	10.3%
Some College	24.8%
High School Graduate (GED)	30.1%
Some High School, No Degree	7.5%
Less than 9th Grade	5.6%

Race Distribution (%)

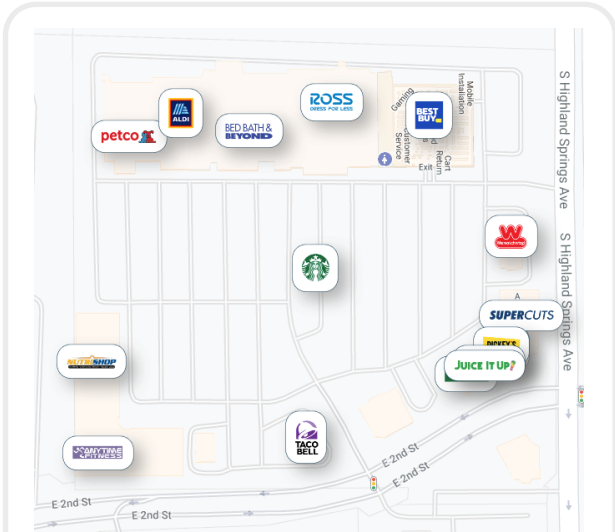
White	66.29%
Black/African American	4.98%
American Indian/Alaskan	1.73%
Asian	5.68%
Native Hawaiian/Islander	0.22%
Other Race	15.47%
Two or More Races	5.62%
Hispanic	40.95%

Income

Average HH	\$92,157
Median HH	\$68,512
Per Capita	\$32,885

Item 6.

Top Zip Codes - Shopping Centers

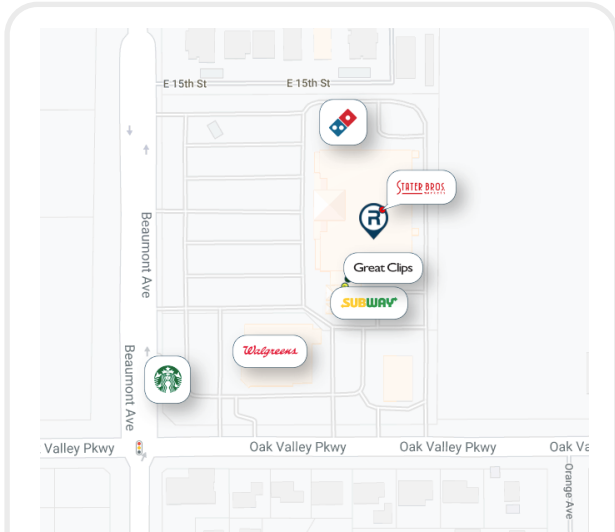


Top Zip Codes

Beaumont Marketplace

1604 2ND ST, BEAUMONT, 92223, CA

Zip Code	City State	% Of Customers
92223	Beaumont	12.97
92220	Banning	7.85
92399	Yucaipa	6.27
92583	San Jacinto	2.7
92544	Hemet	2.41
92582	San Jacinto	1.86
92240	Desert Hot Springs	1.59
92545	Hemet	1.5
92320	Calimesa	1.44
92553	Moreno Valley	1.34
92543	Hemet	1.29
92555	Moreno Valley	1.25
92346	Highland	1.18
92374	Redlands	1.12
92284	Yucca Valley	1.12
92373	Redlands	1.11



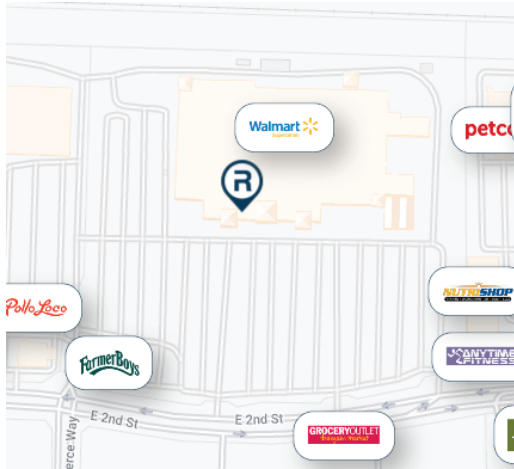
Top Zip Codes

Oak Valley Towne Center

1430 BEAUMONT AVE BEAUMONT, 92223, CA

Zip Code	City State	% Of Customers
92223	Beaumont	24.93
92220	Banning	10.52
92399	Yucaipa	5.69
92320	Calimesa	1.48
92373	Redlands	1.33
92374	Redlands	1.21
92545	Hemet	1.04
92230	Cabazon	1.02
92544	Hemet	0.9
92557	Moreno Valley	0.89
92503	Riverside	0.87
92346	Highland	0.82
92583	San Jacinto	0.81
92543	Hemet	0.73
92553	Moreno Valley	0.73
92324	Colton	0.72

Top Zip Codes - Retailers

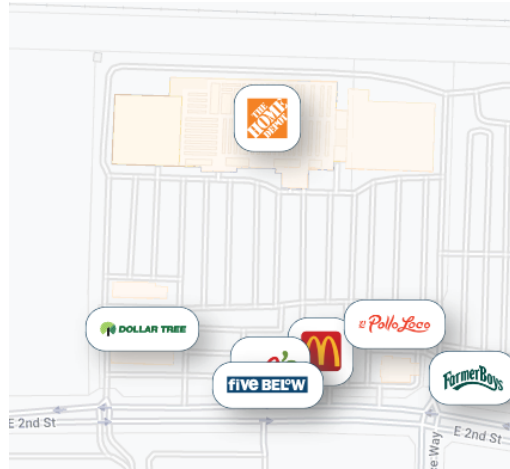


Top Zip Codes

Walmart

1540 E 2ND ST BEAUMONT, 92223, CA

Zip Code	City	% of customer
92223	Beaumont	13.1
92399	Yucaipa	9.56
92220	Banning	8.94
92240	Desert Hot Springs	2.51
92583	San Jacinto	2.17
92544	Hemet	2.11
92320	Calimesa	1.85
92374	Redlands	1.62
92582	San Jacinto	1.55
92373	Redlands	1.51
92545	Hemet	1.31
92543	Hemet	1.22
92346	Highland	1.16
92553	Moreno Valley	0.93
92230	Cabazon	0.85
92404	San Bernardino	0.8

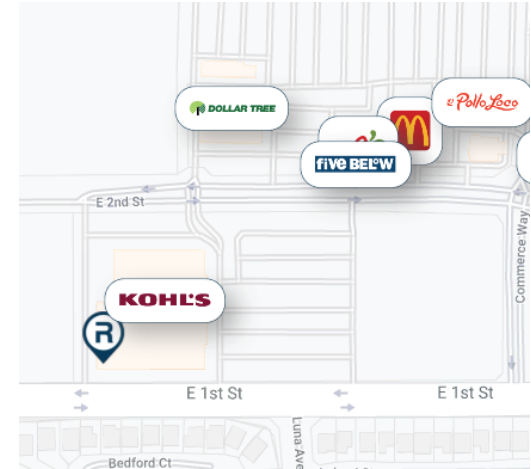


Top Zip Codes

Home Depot

1430 BEAUMONT AVE BEAUMONT, 92223, CA

Zip Code	City	% of customer
92223	Beaumont	20.53
92220	Banning	14.93
92399	Yucaipa	10.62
92320	Calimesa	2.98
92583	San Jacinto	2.88
92544	Hemet	2.26
92582	San Jacinto	1.49
92374	Redlands	1.29
92240	Desert Hot Springs	1.06
92373	Redlands	1.04
92230	Cabazon	0.99
92543	Hemet	0.78
92234	Cathedral City	0.74
92545	Hemet	0.73
92557	Moreno Valley	0.7
92555	Moreno Valley	0.69



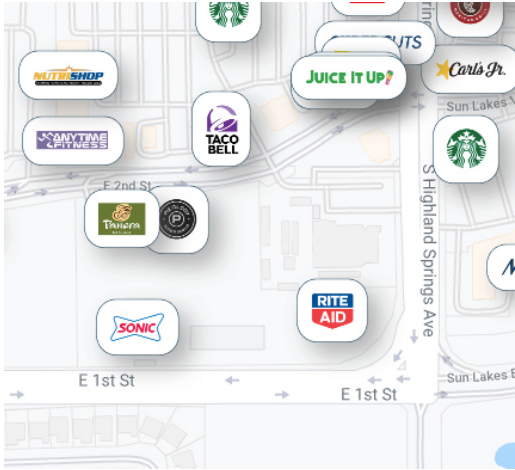
Top Zip Codes

Kohl's

1430 BEAUMONT AVE BEAUMONT, 92223, CA

Zip Code	City	% of customer
92223	Beaumont	24.16
92220	Banning	15.78
92399	Yucaipa	7.55
92583	San Jacinto	6.04
92544	Hemet	4.44
92582	San Jacinto	3.3
92545	Hemet	2.9
92543	Hemet	2.4
92320	Calimesa	2.16
92555	Moreno Valley	1.77
92230	Cabazon	1.59
92284	Yucca Valley	0.95
92240	Desert Hot Springs	0.88
92374	Redlands	0.76
92346	Highland	0.57
92373	Redlands	0.56

Top Zip Codes - Restaurants



Top Zip Codes
Panera Bread

1620 E 1ST ST BEAUMONT, 92223, CA

Zip Code	City	% of customer
92223	Beaumont	25.56
92220	Banning	17.43
92399	Yucaipa	7.32
92320	Calimesa	2.36
92583	San Jacinto	1.83
92234	Cathedral City	1.43
92374	Redlands	1.28
92545	Hemet	1.09
92373	Redlands	1.07
92230	Cabazon	1.05
92544	Hemet	0.93
92346	Highland	0.92
92582	San Jacinto	0.84
92253	La Quinta	0.83
92252	Joshua Tree	0.8
92240	Desert Hot Springs	0.77



Top Zip Codes
Raising Cane's

E 2ND ST BEAUMONT, 92223, CA

Zip Code	City	% of customer
92223	Beaumont	17.66
92220	Banning	10.16
92234	Cathedral City	6.59
92201	Indio	4.71
92583	San Jacinto	4.15
92236	Coachella	3.4
92399	Yucaipa	3.2
92240	Desert Hot Springs	1.91
92253	La Quinta	1.73
92203	Indio	1.7
92582	San Jacinto	1.53
92274	Thermal	1.45
92543	Hemet	1.21
92260	Palm Desert	1.19
92211	Palm Desert	1.17
92544	Hemet	1.12



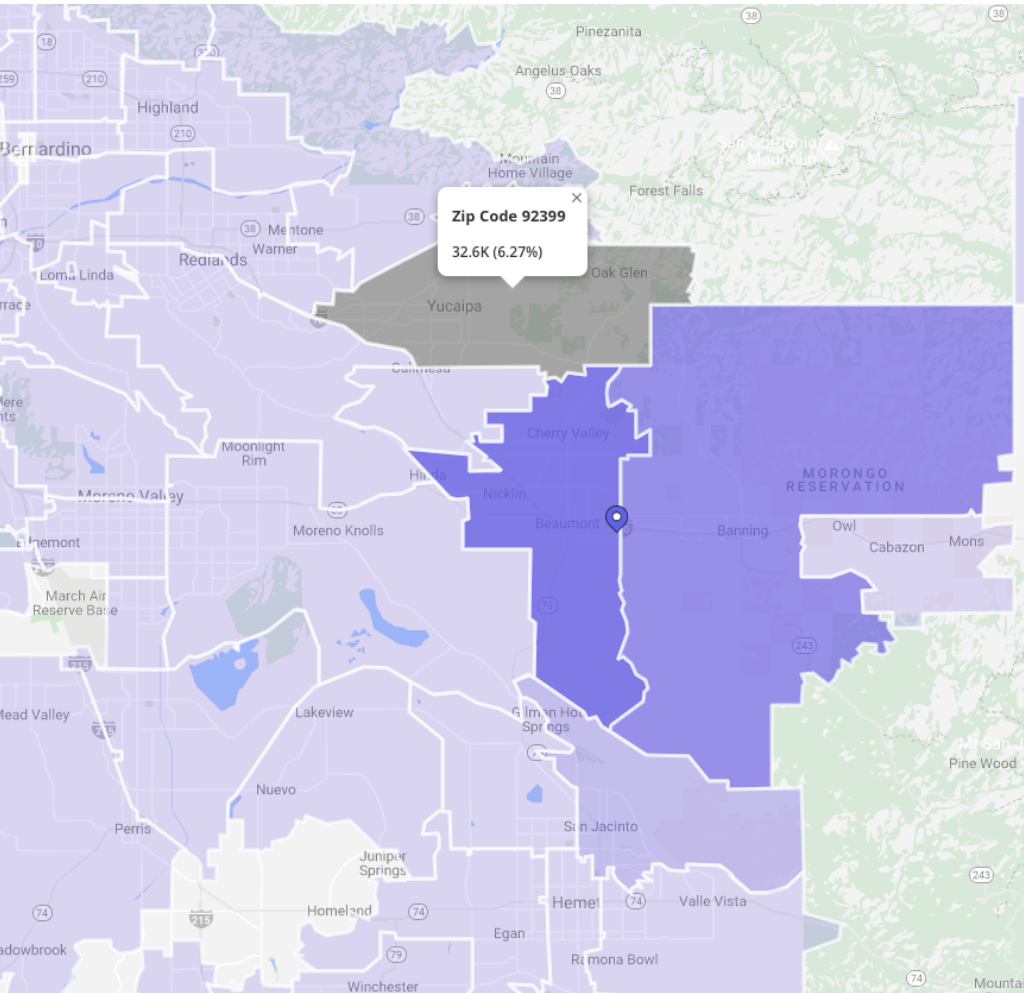
Top Zip Codes
Chili's

1490 E 2ND ST BEAUMONT, 92223, CA

Zip Code	City	% of customer
92223	Beaumont	23.43
92220	Banning	15.56
92399	Yucaipa	7.01
92583	San Jacinto	2.43
92240	Desert Hot Springs	1.92
92320	Calimesa	1.86
92544	Hemet	1.71
92284	Yucca Valley	1.66
92234	Cathedral City	1.48
92230	Cabazon	1.21
92582	San Jacinto	1.14
92201	Indio	1.03
92545	Hemet	1
92374	Redlands	0.94
92262	Palm Springs	0.84
92277	Twentynine Palms	0.82

The Beaumont Consumer: Top Zip Codes

Item 6.



Key Takeaway:

People are coming from surrounding areas to shop, dine, and get services in Beaumont.

- **Top draw areas** for Beaumont businesses:
 - Banning
 - Yucaipa
 - Calimesa
 - San Jacinto
 - Hemet
- **Opportunity:** Market to surrounding communities to grow your consumer base outside of Beaumont and just neighboring communities.

Leakage to Other Markets

Shopping Centers

Shopping Center	Category	City	% Beaumont Consumers
Tri-City Corporate Center	Mall	San Bernardino	41.27
Sun Lakes Village	Shopping Center	Banning	36.78
Citrus Plaza	Mall	Redlands	35.25
Mountain Grove at Citrus Plaza	Shopping Center	Redlands	32.13
Desert Hills Premium Outlets	Shopping Center	Cabazon	31.62
Ontario Mills	Mall	Ontario	22.15
Victoria Gardens	Shopping Center	Rancho Cucamonga	21.16
Pavilion at Redlands	Shopping Center	Redlands	20.8
Towngate Promenade	Shopping Center	Moreno Valley	20.08
Galleria at Tyler	Mall	Riverside	19.8
Moreno Valley Mall	Mall	Moreno Valley	19.33
Yucaipa Valley Center	Shopping Center	Yucaipa	17.94
Stoneridge Towne Center	Shopping Center	Moreno Valley	17.27
Redlands Town Center	Shopping Center	Redlands	16.93
Inland Center	Mall	San Bernardino	16.86
Stagecoach Plaza	Shopping Center	Banning	16.2
Orange St. Plaza	Shopping Center	Redlands	15.89
Moreno Beach Plaza	Shopping Center	Moreno Valley	15.76
Canyon Crossings	Shopping Center	Riverside	15.36
Desert Gateway	Shopping Center	Palm Desert	15.22
Orange Tree Marketplace	Shopping Center	Redlands	14.88
Page Plaza	Shopping Center	Hemet	14.5
Packinghouse District	Shopping Center	Redlands	14.09
Tri-City Redlands Shopping Center	Shopping Center	Redlands	14.08

Leakage to Other Markets

Restaurants

Shopping Center	Category	City	% Beaumont Consumers
Corky's Kitchen and Bakery - Yucaipa	American	Yucaipa	14.93
Red Robin Gourmet Burgers	Burger Joint	Redlands	10.7
Chick-fil-A	Fast Food	Redlands	10.6
In-N-Out Burger	Burger Joint	Hemet	8.01
Olive Garden	Italian	San Bernardino	7.96
BJ's Restaurant and Brewhouse	American	San Bernardino	7.48
In-N-Out Burger	Burger Joint	Thousand Palms	7.36
Baker's Drive Thru	Fast Food	Calimesa	5.65

The Beaumont Consumer:

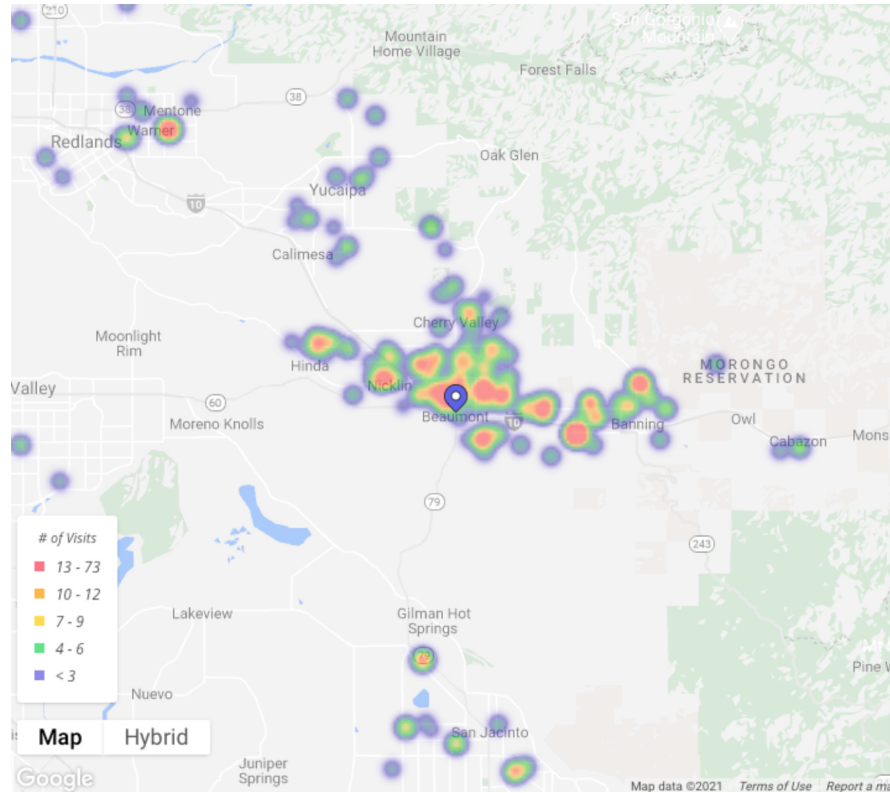
Beaumont Consumer Behavior

Item 6.

Retailer/Business

The Craft Lounge – Tap Room & Bottleshop

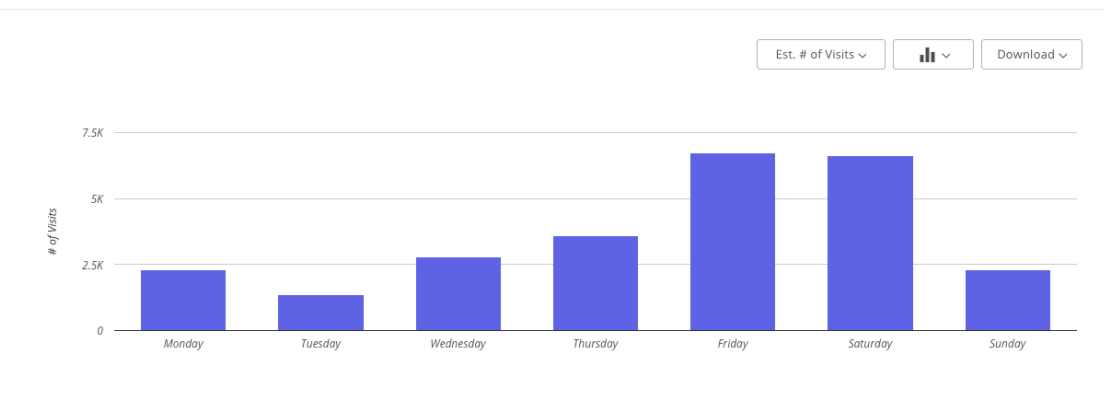
690 NORTH BEAUMONT AVENUE, BEAUMONT, 92223, CA



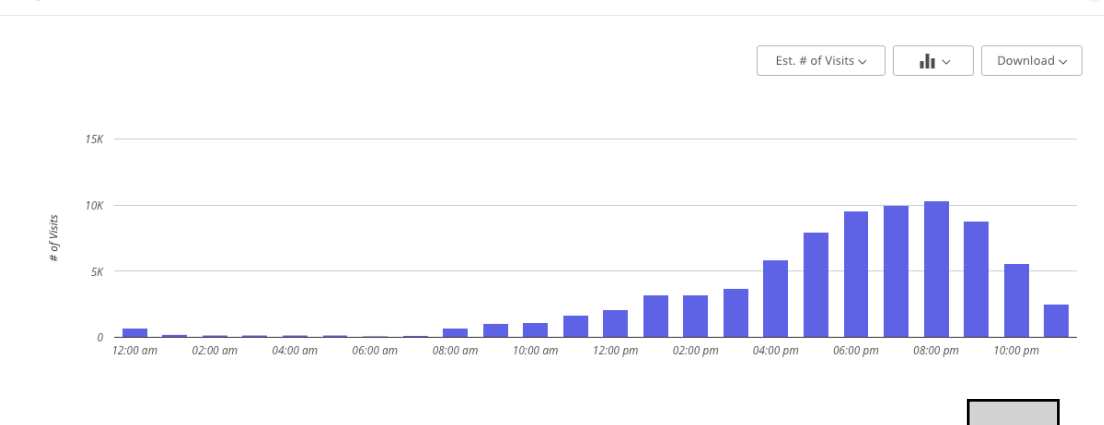
The Craft Lounge - Taproom & Bottleshop

Zip Code	City, State	% of Customers
1 92223	Beaumont, CA	40.75%
2 92220	Banning, CA	15.41%
3 92399	Yucaipa, CA	3.16%
4 92374	Redlands, CA	3.14%
5 92324	Colton, CA	2.86%
6 92506	Riverside, CA	2.66%
7 92553	Moreno Valley, CA	2.13%

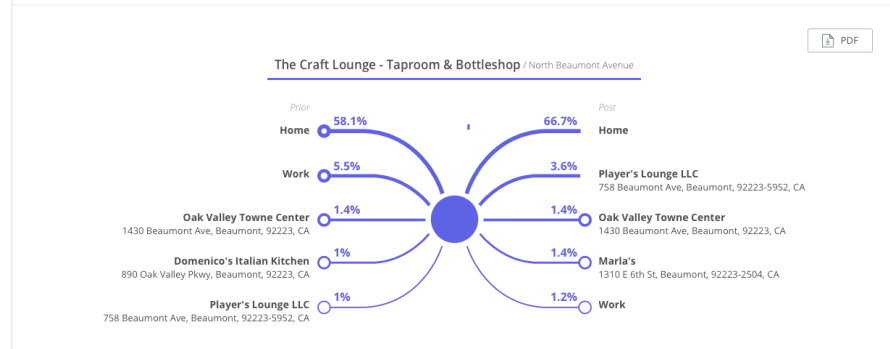
Daily Visits



Hourly Visits



Customer Journey



NAICS	DESCRIPTION	2021 DEMAND	2026 DEMAND	GROWTH	CAGR (%)*
44, 45, 722	Total retail trade including food and drinking places	\$1,407,788,100	\$1,638,463,021	\$230,674,921	3.08%
441	Motor vehicle and parts dealers	\$250,560,011	\$303,110,357	\$52,550,346	3.88%
4411	Automobile dealers	\$217,405,052	\$264,320,298	\$46,915,246	3.99%
4412	Other motor vehicle dealers	\$8,865,068	\$10,977,470	\$2,112,402	4.37%
4413	Automotive parts, accessories, and tire stores	\$24,289,891	\$27,812,589	\$3,522,698	2.75%
442	Furniture and home furnishings stores	\$14,894,147	\$15,994,821	\$1,100,674	1.44%
4421	Furniture stores	\$9,161,346	\$9,792,701	\$631,355	1.34%
4422	Home furnishings stores	\$5,732,801	\$6,202,120	\$469,319	1.59%
443	Electronics and appliance stores	\$26,559,862	\$31,521,945	\$4,962,082	3.49%
443141	Household appliance stores	\$6,215,719	\$7,174,340	\$958,621	2.91%
443142	Electronics stores	\$20,344,143	\$24,347,605	\$4,003,462	3.66%
444	Building material and garden equipment and supplies dealers	\$78,865,285	\$87,668,884	\$8,803,599	2.14%
4441	Building material and supplies dealers	\$69,039,601	\$76,685,301	\$7,645,700	2.12%
44411	Home centers	\$39,394,142	\$43,828,468	\$4,434,326	2.16%
44412	Paint and wallpaper stores	\$2,524,340	\$2,806,602	\$282,262	2.14%
44413	Hardware stores	\$6,695,797	\$7,419,229	\$723,432	2.07%
44419	Other building material dealers	\$20,425,322	\$22,631,002	\$2,205,679	2.07%
4442	Lawn and garden equipment and supplies stores	\$9,825,684	\$10,983,583	\$1,157,899	2.25%
44421	Outdoor power equipment stores	\$1,846,973	\$2,046,738	\$199,765	2.08%
44422	Nursery, garden center, and farm supply stores	\$7,978,711	\$8,936,845	\$958,134	2.29%
445	Food and beverage stores	\$224,505,645	\$244,485,424	\$19,979,780	1.72%
4451	Grocery stores	\$207,555,355	\$225,734,686	\$18,179,332	1.69%
44511	Supermarkets and other grocery (except convenience) stores	\$199,385,958	\$216,835,187	\$17,449,229	1.69%
44512	Convenience stores	\$8,169,397	\$8,899,499	\$730,102	1.73%
4452	Specialty food stores	\$6,299,818	\$6,768,433	\$468,615	1.45%
4453	Beer, wine, and liquor stores	\$10,650,473	\$11,982,306	\$1,331,833	2.38%
446	Health and personal care stores	\$34,917,224	\$41,649,501	\$6,732,277	3.59%
44611	Pharmacies and drug stores	\$26,465,891	\$31,490,396	\$5,024,506	3.54%
44612	Cosmetics, beauty supplies, and perfume stores	\$1,552,720	\$1,919,489	\$366,769	4.33%
44613	Optical goods stores	\$5,446,198	\$6,490,057	\$1,043,859	3.57%
44619	Other health and personal care stores	\$1,452,415	\$1,749,559	\$297,144	3.79%
447	Gasoline stations	\$117,062,626	\$150,145,489	\$33,082,864	5.10%

Retail Demand Growth:

Retail Opportunities

NAICS	DESCRIPTION	2021 DEMAND	2026 DEMAND	GROWTH	
448	Clothing and clothing accessories stores	\$46,309,206	\$50,539,755	\$4,230,549	Item 6.
4481	Clothing stores	\$33,616,804	\$36,204,282	\$2,587,478	1.49%
44811	Men's clothing stores	\$1,424,826	\$1,533,244	\$108,418	1.48%
44812	Women's clothing stores	\$6,107,320	\$6,549,086	\$441,766	1.41%
44813	Children's and infants' clothing stores	\$1,693,585	\$1,817,858	\$124,273	1.43%
44814	Family clothing stores	\$20,739,436	\$22,388,176	\$1,648,740	1.54%
44815	Clothing accessories stores	\$1,117,309	\$1,206,876	\$89,567	1.55%
44819	Other clothing stores	\$2,534,328	\$2,709,042	\$174,714	1.34%
4482	Shoe stores	\$9,752,404	\$10,990,511	\$1,238,107	2.42%
4483	Jewelry, luggage, and leather goods stores	\$2,939,998	\$3,344,962	\$404,964	2.61%
44831	Jewelry stores	\$2,165,525	\$2,498,068	\$332,543	2.90%
44832	Luggage and leather goods stores	\$774,473	\$846,894	\$72,421	1.80%
451	Sporting goods, hobby, musical instrument, and book stores	\$18,412,626	\$21,972,196	\$3,559,570	3.60%
4511	Sporting goods, hobby, and musical instrument stores	\$14,368,561	\$17,664,190	\$3,295,629	4.22%
45111	Sporting goods stores	\$9,037,374	\$11,409,891	\$2,372,517	4.77%
45112	Hobby, toy, and game stores	\$2,608,068	\$2,915,048	\$306,980	2.25%
45113	Sewing, needlework, and piece goods stores	\$546,575	\$601,841	\$55,266	1.95%
45114	Musical instrument and supplies stores	\$2,176,544	\$2,737,411	\$560,867	4.69%
4512	Book stores and news dealers	\$4,044,065	\$4,308,006	\$263,940	1.27%
452	General merchandise stores	\$190,790,115	\$213,007,625	\$22,217,510	2.23%
4522	Department stores	\$12,145,447	\$13,509,342	\$1,363,895	2.15%
4523	Other general merchandise stores	\$178,644,668	\$199,498,284	\$20,853,615	2.23%
453	Miscellaneous store retailers	\$27,582,168	\$31,100,921	\$3,518,754	2.43%
4531	Florists	\$1,019,081	\$1,126,131	\$107,050	2.02%
4532	Office supplies, stationery, and gift stores	\$5,560,271	\$6,072,401	\$512,130	1.78%
45321	Office supplies and stationery stores	\$2,046,752	\$2,237,213	\$190,460	1.80%
45322	Gift, novelty, and souvenir stores	\$3,513,518	\$3,835,188	\$321,670	1.77%
4533	Used merchandise stores	\$5,005,984	\$5,644,215	\$638,231	2.43%
4539	Other miscellaneous store retailers	\$15,996,832	\$18,258,174	\$2,261,343	2.68%
45391	Pet and pet supplies stores	\$6,423,762	\$7,820,024	\$1,396,262	4.01%
45399	All other miscellaneous store retailers	\$9,573,070	\$10,438,150	\$865,081	1.75%
454	Non-store retailers	\$182,851,749	\$207,621,701	\$24,769,952	2.57%
722	Food services and drinking places	\$194,477,436	\$239,644,402	\$45,166,965	4.27%
7223	Special food services	\$13,562,773	\$16,730,950	\$3,168,177	4.29%
7224	Drinking places (alcoholic beverages)	\$5,220,958	\$6,170,527	\$949,570	3.40%
7225	Restaurants and other eating places	\$175,693,705	\$216,742,924	\$41,049,218	4.29%
722511	Full-service restaurants	\$83,686,896	\$102,897,693	\$19,210,796	4.22%
722513	Limited-service restaurants	\$78,023,686	\$96,594,830	\$18,571,144	4.36%
722514	Cafeterias, grill buffets, and buffets	\$1,986,413	\$2,459,726	\$473,313	4.37%
722515	Snack and nonalcoholic beverage bars	\$11,996,710	\$14,790,675	\$2,793,964	4.28%



Staff Report

TO: Mayor and City Council Members
FROM: Kristine Day, Assistant City Manager
DATE: May 4, 2021
SUBJECT: **Review Draft Capital Improvement Plan (CIP) for Fiscal Years 2022-2026 and Prior Year Project List**

Background and Analysis:

Each year as part of the budgetary process, the City Council reviews and adopts a five-year capital improvement plan (CIP) pursuant to the California Government Code. Adoption of the CIP requires the City Council to hold a public hearing and adopt a resolution. City staff intends to bring back the CIP for formal action on June 1, 2021.

As part of this staff report, both a draft prior year project list and a draft CIP have been provided for the City Council's review and direction for any modifications. During the presentation, a full overview of projects by funding source will be provided. Some of the projects identified and listed in the plan are projects which will be constructed with restricted funds such as development impact fees.

Prior Year CIP Project List

This project list is a culmination of prior year CIP projects dating back to 2016, which are active and underway. This list indicates the status and funding source for each. Many of these projects are under design or construction. Many of the projects listed in the Prior Year CIP have moved from 5-year CIP FY2021. Projects T-02 through T-06 have been added to the City's CIP to coincide with the Transit Capital Plan.

Five Year Capital Improvement Plan FY2022-2026

Attached is the proposed CIP for City Council's review and direction on projects proposed for FY2022-2026. The proposed project list continues to provide a balance of projects City-wide including street improvements, public safety, quality of life, facility maintenance and wastewater system improvements based on the priorities of the City Council. Projects are categorized by funding source, some of which are restricted funds that must be used to increase capacity of infrastructure and for purposes consistent with the specified impact fee. City staff will provide an overview and more information on

each project during the presentation. Below is an overview of several key project categories.

Street Improvement Projects

Several street improvement projects are included with a variety of funding sources such as Measure A, SB1, CDBG, and Traffic Signal DIF. City Council approved a list of street rehabilitation and slurry seal projects at the April 20, 2021, meeting which will be funded through Measure A, SB1, General Fund and CDBG funds. Funds have been allocated this fiscal year to perform necessary traffic studies as well as associated improvements to address traffic congestion, circulation capacity and public safety. CDBG funds have been programmed to enhance the street rehabilitation program in the City core and other eligible segments of town. This will increase street maintenance roughly \$130,000 annually.

Public Safety Projects

The aging facilities of the Police Department will require new facilities in the future. A feasibility study is in progress to provide facility space planning, conceptual drawings, and construction cost estimates to allow the City Council to plan for this facility in the future. Included in the CIP is placeholder of \$40 million for a new facility in the future funding category.

Quality of Life Projects

\$250,000 from CFD funds have been added for Phase 2 of the Playground Shade Covers Project as an estimated cost for 2 additional permanent shade structures in the park system.

Wastewater System

The wastewater master plan is currently underway and will provide a list of system improvements which will be incorporated into future CIPs. A workshop presenting the Wastewater Master Plan to the City Council is anticipated in July 2021, with an integrated CIP between the lift stations, collection system and the wastewater treatment plant. The mitigation of inflow and infiltration of storm water into the wastewater system continues to be an identified need. Funds have been programmed over several fiscal years to address this issue.

Also included is the design and construction of the 16" force main from the Mesa Lift Station to the wastewater treatment plant as well as the pump replacement for the lift station build out. The design portion of this project is anticipated to be approximately \$450,000 and probable construction costs to be around \$4.75 million. These projects have been added to FY2022 and FY2023.

Once the new plant is fully operational and the wastewater master plan is complete, a new rate study will be needed, and those funds have been programmed for FY2022. Additionally, in FY2024 and FY2026, large replacement maintenance items for the RO system and the UV system at the treatment plant have been included.

Internal Service Fund - Buildings

In December 2020, City Council approved the creation of the Internal Service Fund for building maintenance and placed \$3.5 million of seed funding to start needed maintenance projects. Projects slated for FY2022 include maintenance to City Hall including the roof, HVAC replacements, fire system update associated with office space remodels, bathroom updates and window replacements for Building B. Fire Station 66 will undergo HVAC replacements along with duct cleaning/repair/replacements. The Police Station will replace HVAC units and replacement of lifted concrete around the building. Lastly, irrigation replacement with smart technology for better management of the irrigation system citywide has been included for FY2022.

Fiscal Impact:

The Finance Department has reviewed both the draft prior year CIP project list and the draft five-year CIP. All projects on the prior year project list are funded or awaiting grant dollars for construction. Funding for projects listed in the FY2022 column can be fully funded with the identified funding source. City staff estimates that it cost approximately \$9,750 to prepare this report.

Recommended Action:

Review the Draft Capital Improvement Plan for FY 2022-2026 and the Prior Year Project List and provide direction to City staff.

Attachments:

- A. Draft Prior Year CIP Project List
- B. Draft Five Year Capital Improvement Plan FY 2022-2026

**City of Beaumont
Prior Year CIP Projects**

Project #	Project Name	Budget Allocation	Status	Funding Source
104	CF104 City Hall and BLDG B	\$ 1,000,000	Construction	Basic Services DIF
2016-003	Potrero Interchange- Phase 1 & 2	\$ 66,600,664	Phase 1 Complete, Phase 2 Seeking Funds	Grants/ Developer Contributions
2017-001	Pennsylvania Avenue/Ramp Additions	\$ 3,950,000	In design	Road & Bridge DIF
2017-005	WWTP Exp PH 1 & Advanced R	\$ 67,235,187	In construction	Bonds, WW DIF, Recycled Water DIF, CFD
2017-006	Brine Pipeline to San Bernardino	\$ 40,572,639	In construction	Bonds, WW DIF, Recycled Water DIF, CFD
2017-009	Pennsylvania Widening	\$ 4,018,000	In Design	TUMF, Road & Bridge DIF
2017-012	Pennsylvania Ave/UPR Grade Separation	\$ 1,500,000	In Design	Railroad DIF
2017-027	Oak Valley/I-10 Interchange Design	\$ 7,000,000	Design	TUMF, Grants
2017-028	Potrero Fire Station	\$ 8,650,000	Design	Fire Station DIF, General Fund, Bonds
2019-004	CNG Station	\$ 2,830,156	Design	Transit Grants
2019-009	2nd Street Extension Feasibility / Design	\$ 200,000	Design	Road & Bridge
2019-010	PLC Upgrade Construction	\$ 700,000	Construction	WW Funds, CFD
2019-012	WQMP & WWTP Permit	\$ 50,000	In process	WW Funds
2019-013	Wastewater Master Plan	\$ 350,000	In process	WW Funds
2019-018	PLC Upgrade Design	\$ 50,000	Design	WW Funds
2019-019	Beaumont Master Drainage Plan - Line 2 Stage 1	\$ 5,000,000	Design	Grant
R-01	Oak Valley Pkwy Expansion I10-Desert Lawn Phase 2	\$ 600,000	Design	Road & Bridge DIF
R-02	Citywide Traffic Signal Upgrade & Capacity Improvement Phase 1	\$ 150,000	Design/Construction	Traffic Signal DIF
P-01	Stewart Park Splash Park	\$ 1,145,000	Design	Community Park DIF
P-02	Rangel Park Splash Park	\$ 500,000	Design	Neighborhood DIF
P-03	Nicklaus Park Splash Park	\$ 850,000	Design	Neighborhood DIF
P-04	Sports Park Field Lighting and Field Expansion	\$ 1,000,000	Design	Regional Park DIF
P-05	Nicklaus Park Field Lighting and Field Expansion	\$ 900,000	Design	Regional Park DIF
P-06	Sports Park Support Building for Leagues	\$ 300,000	Design	Recreation Facilities DIF
P-07	Nicklaus Park Support Building for Leagues	\$ 300,000	Design	Recreation Facilities DIF
P-08	Nicklaus Park Skate Park	\$ 300,000	Design	Recreation Facilities DIF
PS-01	New Police Station Feasibility Study	\$ 250,000	RFP	Police Facilities Mitigation DIF
P-10	Stewart Park Redevelopment and Skate Park	\$ 2,250,000	Design	CFD
PS-02	Police Station Renovations	\$ 250,000	Construction	CFD
PS-03	Fire Station Renovations	\$ 250,000	Construction	CFD
P-09	Playground Shade Covers - Phase 1	\$ 250,000	Design	CFD
P-11	Rangel Park - Ball Field Lights, Electrical and Playground	\$ 867,213	Design	CFD, CDBG
R-03	Annual Citywide Street Rehabilitation and Maintenance 20/21	\$ 2,141,201	Design	Measure A
R-04	Annual Citywide Street Rehabilitation and Maintenance 20/21	\$ 1,436,733	Design	SB1
CD-01	SB2 Grant - Housing Code Updates	\$ 160,000	In process	Grant
CD-02	Leap Grant - Housing Element Update	\$ 150,000	In process	Grant
P-13	Three Rings Ranch Park Improvements	\$ 177,952	Design	Grant
T-01	Electric Shuttle Vehicles	\$ 272,673	In process	Transit Grants
T-02	Fleet Maintenance and Operations Facility - Construction	\$ 1,220,667	Design	Transit Grants
T-03	Bus Stop Rehabilitation & Passenger Amenities	\$ 179,443	Construction	Transit Grants
T-04	Shop Building Maintenance	\$ 55,524	Construction	Transit Grants
T-05	Bus Wraps/ Brand Logo Update- Phase 1	\$ 101,950	In process	Transit Grants
T-06	Shop Tools and Lifts	\$ 11,974	In process	Transit Grants
R-05	2020 Mid Year Street Enhancement Program	\$ 3,500,000	Construction	General Fund
R-06	2021 Mid Year Street Enhancement Program	\$ 2,000,000	Design	General Fund
R-07	Cherry Channel Drainage Project	\$ 500,000	Design	General Fund
F-01	City Hall Landscaping and Painting	\$ 250,000	Design	General Fund
WW-01	I&I Rehabilitation Project - Phase 1	\$ 200,000	In process	Wastewater
		\$ 232,226,977		

Five Year Capital Improvement Plan FY 22-26

Funding Source: TUMF

Project Name	Project Number	FY21/22	FY22/23	FY23/24	FY24/25	FY25/26	Future Funding	TOTAL
TOTAL		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Funding Source: Basic Services DIF

Project Name	Project Number	FY21/22	FY22/23	FY23/24	FY24/25	FY25/26	Future Funding	TOTAL
New City Hall							\$ 18,000,000	\$ 18,000,000
TOTAL		\$ -	\$ -	\$ -	\$ -	\$ -	\$ 18,000,000	\$ 18,000,000

Funding Source: Road & Bridge DIF

Project Name	Project Number	FY21/22	FY22/23	FY23/24	FY24/25	FY25/26	Future Funding	TOTAL
2nd Street Extension Construction							\$ 5,000,000	\$ 5,000,000
1st Street Widening Penn to Beaumont Ave Design & Construction							\$ 1,600,000	\$ 1,600,000
TOTAL		\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,600,000	\$ 6,600,000

Funding Source: Traffic Signal DIF

Project Name	Project Number	FY21/22	FY22/23	FY23/24	FY24/25	FY25/26	Future Funding	TOTAL
Citywide Traffic Signal Upgrade & Capacity Improvement Phase 2		\$ 150,000						\$ 150,000
Citywide Traffic Signal Upgrade & Capacity Improvement Phase 3			\$ 150,000					\$ 150,000
Citywide Traffic Signal Upgrade & Capacity Improvement Phase 4				\$ 150,000				\$ 150,000
Citywide Traffic Signal Upgrade & Capacity Improvement Phase 5					\$ 150,000			\$ 150,000
TOTAL		\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ -	\$ -	\$ 600,000

Funding Source: Community Park DIF

Project Name	Project Number	FY21/22	FY22/23	FY23/24	FY24/25	FY25/26	Future Funding	TOTAL
								\$ -
TOTAL		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Funding Source: Neighborhood Park DIF

Project Name	Project Number	FY21/22	FY22/23	FY23/24	FY24/25	FY25/26	Future Funding	TOTAL
								\$ -
TOTAL		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Funding Source: Regional Park DIF

Project Name	Project Number	FY21/22	FY22/23	FY23/24	FY24/25	FY25/26	Future Funding	TOTAL
								\$ -
TOTAL		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Funding Source: Recreation Facilities DIF

Project Name	Project Number	FY21/22	FY22/23	FY23/24	FY24/25	FY25/26	Future Funding	TOTAL
								\$ -
								\$ -
TOTAL		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Funding Source: Fire Station DIF

Project Name	Project Number	FY21/22	FY22/23	FY23/24	FY24/25	FY25/26	Future Funding	TOTAL
TOTAL		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Funding Source: Police Facilities Mitigation DIF

Project Name	Project Number	FY21/22	FY22/23	FY23/24	FY24/25	FY25/26	Future Funding	TOTAL
								\$ -
TOTAL		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Funding Source: Public Safety CFD

Project Name	Project Number	FY21/22	FY22/23	FY23/24	FY24/25	FY25/26	Future Funding	TOTAL
		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Funding Source: CFD

Project Name	Project Number	FY21/22	FY22/23	FY23/24	FY24/25	FY25/26	Future Funding	TOTAL
Playground Shade Covers - Phase 2		\$ 250,000						\$ 250,000
Downtown Plaza			\$ 1,500,000					\$ 1,500,000
TOTAL		\$ 250,000	\$ 1,500,000	\$ -	\$ -	\$ -	\$ -	\$ 1,750,000

Funding Source: Measure A

Project Name	Project Number	FY21/22	FY22/23	FY23/24	FY24/25	FY25/26	Future Funding	TOTAL
Annual Citywide Street Rehabilitation and Maintenance 21/22		\$ 1,060,000						\$ 1,060,000
Annual Citywide Street Rehabilitation and Maintenance 22/23			\$ 535,500					\$ 535,500
Annual Citywide Street Rehabilitation and Maintenance 23/24				\$ 541,000				\$ 541,000
Annual Citywide Street Rehabilitation and Maintenance 24/25					\$ 546,500			\$ 546,500
Annual Citywide Street Rehabilitation and Maintenance 25/26						\$ 552,000		\$ 552,000
TOTAL		\$ 1,060,000	\$ 535,500	\$ 541,000	\$ 546,500	\$ 552,000	\$ -	\$ 3,235,000

Funding Source: RMRA/SB 1

Project Name	Project Number	FY21/22	FY22/23	FY23/24	FY24/25	FY25/26	Future Funding	TOTAL
Annual Citywide Street Rehabilitation and Maintenance 21/22		\$ 863,763						\$ 863,763
Annual Citywide Street Rehabilitation and Maintenance 22/23			\$ 892,435					\$ 892,435
Annual Citywide Street Rehabilitation and Maintenance 23/24				\$ 900,840				\$ 900,840
Annual Citywide Street Rehabilitation and Maintenance 24/25					\$ 898,837			\$ 898,837
Annual Citywide Street Rehabilitation and Maintenance 25/26						\$ 908,101		\$ 908,101
TOTAL		\$ 863,763	\$ 892,435	\$ 900,840	\$ 898,837	\$ 908,101	\$ -	\$ 4,463,976

Funding Source: Grants

Project Name	Project Number	FY21/22	FY22/23	FY23/24	FY24/25	FY25/26	Future Funding	TOTAL
Pennsylvania Ave/UPRR Grade Separation - Construction							\$ 34,000,000	\$ 34,000,000
California Ave/UPRR Grade Separation - Construction							\$ 34,000,000	\$ 34,000,000
Oak Valley/I-10 Interchange - Construction							\$ 65,000,000	\$ 65,000,000
TOTAL		\$ -	\$ -	\$ -	\$ -	\$ -	\$ 133,000,000	\$ 133,000,000

Funding Source: Transit Grants

Project Name	Project Number	FY21/22	FY22/23	FY23/24	FY24/25	FY25/26	Future Funding	TOTAL
CNG Fueling Station			\$ 500,000					\$ 500,000
Fleet Maintenance and Operations Facility Construction				\$ 1,000,000				\$ 1,000,000
Passenger Amenities Project			\$ 100,000					\$ 100,000
Vehicle Replacements - Phase 1		\$ 1,400,000						\$ 1,400,000
Vehicle Replacements - Phase 2			\$ 1,400,000					\$ 1,400,000
Vehicle Replacements - Phase 3				\$ 1,400,000				\$ 1,400,000
Fleet Video Cameras		\$ 110,000						\$ 110,000
Paratransit Scheduling Software		\$ 14,000						\$ 14,000
Shop Tools and Lifts		\$ 60,000						\$ 60,000
TOTAL		\$ 1,584,000	\$ 2,000,000	\$ 2,400,000	\$ -	\$ -	\$ -	\$ 5,984,000

Funding Source: Asset Forfeiture

Project Name	Project Number	FY21/22	FY21/22	FY22/23	FY23/24	FY24/25	Future Funding	TOTAL
TOTAL		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Funding Source: CDBG Grants

Project Name	Project Number	FY21/22	FY22/23	FY23/24	FY24/25	FY25/26	Future Funding	TOTAL
Citywide Street Improvements 21/22 - CDBG		\$ 130,000						\$ 130,000
Citywide Street Improvements 22/23 - CDBG			\$ 130,000					\$ 130,000
Citywide Street Improvements 23/24 - CDBG				\$ 130,000				\$ 130,000
Citywide Street Improvements 24/25 - CDBG					\$ 130,000			\$ 130,000
Citywide Street Improvements 25/26 - CDBG						\$ 130,000		\$ 130,000
TOTAL		\$ 130,000	\$ 130,000	\$ 130,000	\$ 130,000	\$ 130,000	\$ -	\$ 650,000

Funding Source: General Fund

Project Name	Project Number	FY21/22	FY22/23	FY23/24	FY24/25	FY25/26	Future Funding	TOTAL
Storm Drain Facilities							\$ 1,000,000	\$ 1,000,000
Storm Drain Master Plan							\$ 500,000	\$ 500,000
Parking Garage Facility - Downtown							\$ 10,000,000	\$ 10,000,000
New Police Station Facility							\$ 40,000,000	\$ 40,000,000
TOTAL		\$ -	\$ -	\$ -	\$ -	\$ -	\$ 51,500,000	\$ 51,500,000

Funding Source: Wastewater

Project Name	Project Number	FY21/22	FY22/23	FY23/24	FY24/25	FY25/26	Future Funding	TOTAL
I&I Rehabilitation Project - Phase 2 - Flow Meters		\$ 200,000						\$ 200,000

I&I Rehabilitation Project - Phase 3			\$ 200,000					\$ 200,000
Wastewater Rate Study		\$ 200,000						\$ 200,000
UV Bulb Replacement				\$ 50,000	\$ 50,000	\$ 50,000		\$ 150,000
RO Module Replacement						\$ 300,000		\$ 300,000
TOTAL		\$ 400,000	\$ 200,000	\$ -	\$ 50,000	\$ 300,000	\$ -	\$ 950,000

Funding Source: Wastewater DIF

Project Name	Project Number	FY21/22	FY22/23	FY23/24	FY24/25	FY25/26	Future Funding	TOTAL
16" Mesa Force Main and Pump Replacement Design		\$ 450,000						\$ 450,000
16" Mesa Force Main Construction			\$ 4,000,000					\$ 4,000,000
Mesa Lift Station Pump Replacement Construction			\$ 750,000					\$ 750,000
TOTAL		\$ 450,000	\$ 4,750,000	\$ -	\$ -	\$ -	\$ -	\$ 5,200,000

Funding Source: Internal Service Fund- Buildings

Project Name	Project Number	FY21/22	FY22/23	FY23/24	FY24/25	FY25/26	Future Funding	TOTAL
City Hall Roofing		\$ 313,071						\$ 313,071
City Hall Fire System Upgrades - Remodeled Spaces		\$ 403,504						\$ 403,504
City Hall Bathrooms		\$ 100,000						\$ 100,000
City Hall HVACs - Gym and Remodeled Spaces		\$ 275,812						\$ 275,812
Fire Station 66 - HVAC		\$ 49,399						\$ 49,399
Police Station - HVAC		\$ 157,791						\$ 157,791
Police Station - Concrete Walkway Trip Hazards		\$ 25,000						\$ 25,000
Grounds Smart Irrigation		\$ 109,000						\$ 109,000
Building B - Window Replacement		\$ 26,000						\$ 26,000
TOTAL		\$ 1,459,577	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,459,577

Streets/ Roads	R
Parks	P
Public Safety	PS
Community Development	CD
Transit	T
Wastewater	WW
Facilities	F



Staff Report

TO: City Council
FROM: Jeff Mohlenkamp, Finance Director
DATE: May 4, 2021
SUBJECT: Fiscal Year 2022 City Wide Budget

Background and Analysis:

The City prepares an annual budget that must be adopted by June 30, 2021. The budget estimates the resources that will be available to meet City operational and capital needs. It then allocates those resources to meet those needs across the City operating departments and to address priority capital projects.

This is the first draft of the FY2022 budget to review and discuss. The target date for adoption by City Council is June 15, 2021.

This first review of the budget is structured as follows:

- **General Fund Overview** – An overview of the primary operating funds including a comparison of the revenues and expenses for FY2021 and FY2022 to highlight variances;
- **General Fund Expenditure Highlights by Department** - A summary of General Fund department budgets including highlights of material changes and enhancements;
- **Wastewater Fund Overview** – An overview of the Wastewater Fund including changes to revenues and expenditures plus highlights of enhancements;
- **Other Funds Overview** – An overview of all other funds that support operations and that support capital projects; and
- **Internal Service Fund Programs and FY2022 Budgeted Expenditures** – A review of the newly created Internal Service Funds.

General Fund Overview

The General Fund includes the majority of City operations. Revenues supporting the General Fund come from taxes, charges for services, CFD services fees and other miscellaneous sources. Expenses include public safety, community services,

engineering/public works and street maintenance, community development, building safety and administration.

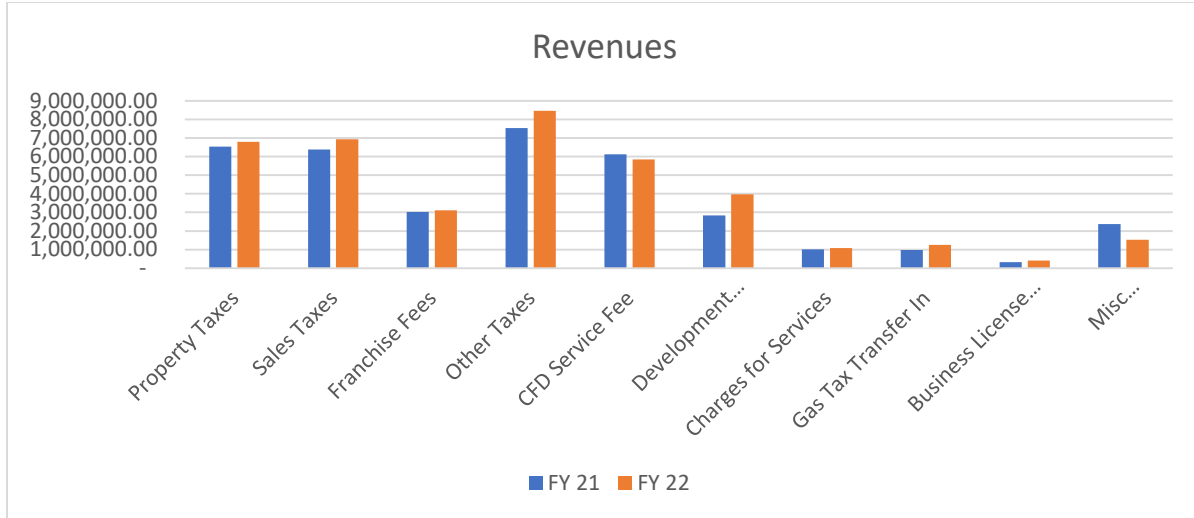
The budget for FY2022 projects total revenues of \$39,372,812 and total expenditures of \$38,598,061 for a budgeted surplus of \$774,751. The total expenditures include certain enhancements that programs new positions and additional operating costs. These enhancements are summarized for each major City function in the following section of this report and also detailed in Attachment C.

General Fund Revenues

For FY2022, tax revenues of \$25.3 million are projected representing 64.2% of General Fund revenues. CFD service fee revenues of \$5.85 million are estimated representing 15% of General Fund revenues. Development related revenues projected to be \$4.0 million representing 10% of General Fund revenues. The balance of General Fund revenues are derived from charges for services, other transfers in from other sources and miscellaneous revenues.

Revenue Type	FY2022 Budget	% of Total Revenues
Taxes	\$25,295,395	64.2%
CFD Service Fees	\$ 5,845,595	15.0%
Development Revenues	\$ 3,980,025	10.0%
Charges for Services	\$ 1,080,914	2.8%
Gas Tax Transfer In	\$ 1,242,846	3.2%
Business License Fees	\$ 405,000	1.0%
Misc Revenues/ Transfers	\$ 1,523,037	3.8%
Total Revenues	<u>\$39,372,812</u>	<u>100 %</u>

General Fund revenues have increased from the FY2021 budget by \$2.26 million or 6.1%. This is led primarily by projected growth in property tax revenues, sales tax revenues and increases in projected development related revenues.



A schedule providing General Fund revenues for FY2020, FY2021 as well as the proposed FY2022 budget is included as Attachment A.

General Fund Expenses

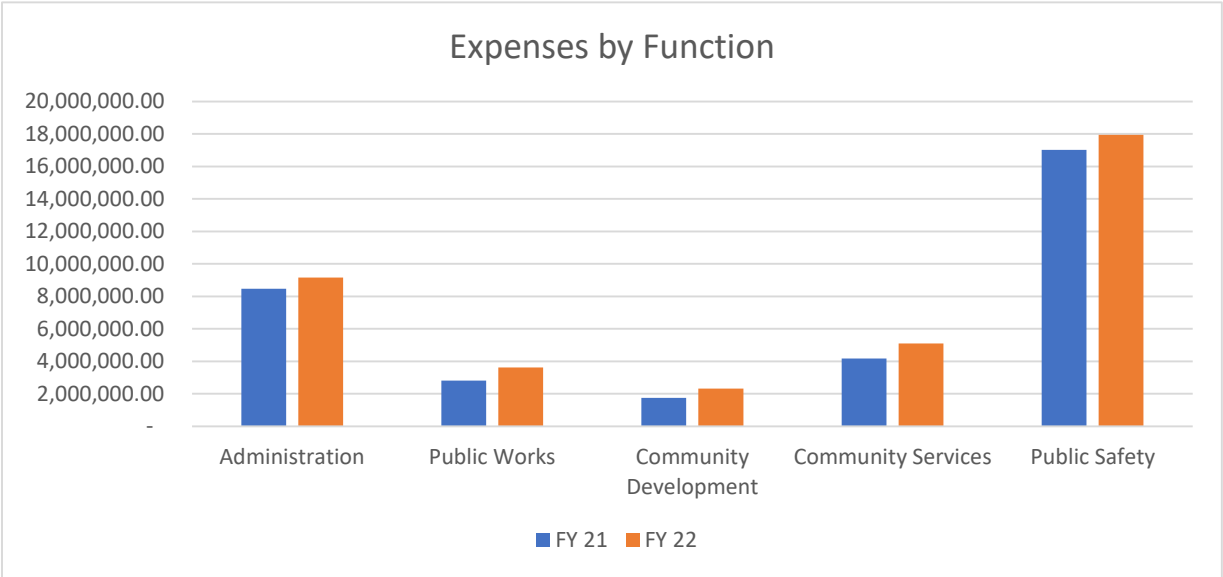
Programmed General Fund expenses are \$38.5 million. This represents an increase of \$4.2 million or 12.2% compared FY2021. The table below indicates changes from FY2021 to FY2022.

Expenditure Type	FY2021 (adjusted) (1)	FY2022	Difference	% Increase
Personnel Costs	\$19,731,364	\$21,654,542	\$1,923,178	9.7%
Operating Expenses	\$13,985,895	\$15,428,070	\$1,442,175	10.3%
Capital Improvements	\$ 488,816	\$ 920,178	\$ 431,362	88.3%
Contingency	\$ 150,000	\$ 150,000	\$0	0%
Transfers Out	\$ 31,000	\$ 445,271	\$ 414,271	1336%%
Total	\$34,387,075	\$38,598,061	\$4,210,986	12.2%

This includes budget adjustments made during FY2021 to add back positions and to adjust the operating budget. It excludes allocations for one-time items authorized by the City Council in September 2020 and March 2021 for additional vehicles, equipment, and capital projects. These adjustments are made to provide for a better comparison from year to year.

Explanation of Budgeted Expense Changes from FY2021 to FY2022:

- **Personnel** – the primary drivers of this increase include restoration of remaining frozen positions, adjustment to payroll and payroll related expenses pursuant to the City’s multi-year fiscal forecast, and enhancement requests for new positions and related costs;
- **Operating Expense** – the primary driver is increases in contracted plan check and inspections related to development activity, which are directly offset by fees and increases in utility charges and maintenance for City parks. Other contract related increases, including insurance costs, increases in credit card fees, investment management services and increases in contractual services. The remainder of the increase is enhancement requests for additional operating costs;
- **Capital Improvements** – the increases are directly related to transfers to the newly created internal service funds. The transfers for vehicle replacement and information technology (I.T.) equipment are new for FY 2022. These are discussed in detail later in this report; and
- **Transfers** – transfers to the Facility Maintenance Internal Service Fund and the Equipment Internal Service fund are the reason for the increase in transfers out of the General Fund.



A summary of General Fund expenditures by department is included as Attachment B.

General Fund Expenditure Highlights by Department

Administration - Administration, City Council, City Clerk, Risk/Human Resources, Information Technology, Legal and Finance

	FY 2021 Budget	FY 2022 Budget	Variance
Personnel	\$3,326,413	\$3,625,023	\$ 296,610
Operating	\$4,832,768	\$5,340,960	\$ 508,192
Capital Improvements	\$ 150,000	\$ 40,744	(\$109,256)
Contingency	\$ 150,000	\$150,000	\$0
Total Expenditures	\$8,459,181	\$9,156,727	\$ 697,546

Budget Highlights

- All budgets made necessary contributions to the internal service funds;
- Increases in contract service for investment management, credit card fees and insurance costs;
- Legal cost increases from \$1,250,000 to \$1,500,000; and
- Enhancements: 1 New IT Desktop Analyst position, reclassification of one existing Senior Accountant to Assistant Finance Director and several operating enhancements – total requested enhancements - \$192,995.

Public Works - Engineering/ Public Works and Street Maintenance

	FY 2021 Budget	FY 2022 Budget	Variance
Personnel	\$1,609,738	\$1,880,553	\$ 270,815
Operating	\$1,168,830	\$1,522,773	\$ 353,943
Capital Improvements	\$ 38,332	\$ 213,703	\$ 175,371
Total Expenditures	\$2,816,900	\$3,617,029	\$ 800,129

Budget Highlights

- All budgets made necessary contributions to the internal service funds;
- Increases in contract service for plan checking, inspections and traffic engineering – the majority of these expense increases will be recoverable via development fees and revenue estimates for fees have been adjusted accordingly;

- Increase in budget to manage street lights as Solera has been added to City responsibility which will be paid through CFD special assessments; and
- Enhancements: 2 New Street Maintenance Worker positions and new survey equipment – total requested enhancements - \$324,748.

Community Development - Community Development, Community Enhancement, Building and Safety

	FY 2021 Budget	FY 2022 Budget	Variance
Personnel	\$1,358,383	\$1,439,197	\$ 80,814
Operating	\$ 387,980	\$ 853,070	\$465,090
Capital Improvements	\$ 0	\$ 25,589	\$ 25,589
Total Expenditures	\$1,746,363	\$2,317,856	\$571,493

Budget Highlights

- All budgets made necessary contributions to the internal service funds; and
- Increases in contracted plan check and inspection services to accommodate expected increases in development activity – these costs are recoverable via building related fees and revenue estimates have been adjusted accordingly.

Community Services – Community Services, Parks and Grounds Maintenance, Building Maintenance

	FY 2021 Budget	FY 2022 Budget	Variance
Personnel	\$2,307,943	\$2,635,795	\$ 327,852
Operating	\$1,590,684	\$2,335,968	\$ 745,284
Capital Improvements	\$275,500	\$123,497	(\$ 152,003)
Total Expenditures	\$4,174,127	\$5,095,260	\$ 921,133

Budget Highlights

- All budgets made necessary contributions to the internal service funds;
- Remaining frozen positions restored for FY 2022 - includes 2 Park Maintenance Positions and 4 part time Recreation Specialists;
- Increased allocation for routine building maintenance;

- Increased utility costs and chemicals for splash pads at Rangel and Michelson Parks;
- Increased spending for maintenance of parks and right of way to include additional tree trimming, bark, hydroseeding, new planting, etc; and
- Enhancements: no new positions are requested, several operating cost increases, including improvements for park maintenance and right of way maintenance are included – total requested enhancements - \$417,391.

Public Safety - Police Department, Police Support, Fire Services, Animal Control, K-9, Emergency Operations

	FY 2021 Budget	FY 2022 Budget	Variance
Personnel	\$11,088,087	\$12,073,974	\$ 985,887
Operating	\$ 5,508,864	\$ 5,375,299	(\$133,565)
Capital Improvements	\$ 409,759	\$ 499,187	\$ 89,428
Total Expenditures	\$17,006,710	\$17,948,460	\$941,750

Budget Highlights

- Remaining frozen police officer position restored, other positions restored during mid-year budget adjustments budgeted for the full year;
- Increase in spending for special department supplies to purchase, including tasers, body armor, weapons, etc;
- Increase in fuel costs to support additional special duty assignments and additional vehicles;
- Fire Services contract reduced from \$4.5 million to \$4.0 million due to a reduction in the contract amount and to more closely approximate historical spending patterns;
- Emergency management - \$91,900 added to support contract emergency management services;
- K-9 budget doubles with an expansion of the K-9 program previously authorized by the City Council to add an additional dog for FY 2022; and
- Enhancements: 3 New Police Officer positions, 1 Support Services Specialist, 1 Officer Trainee, upgrade of 2 Police Officer positions to Corporals – total enhancement request - \$706,883.

A detailed listing of all enhancement requests, including the new positions, is included in Attachment C.

Wastewater Fund Overview

The Wastewater Fund provides for the day-to-day operations of the sewer system, equipment needs and the servicing of debt service. Revenues supporting wastewater operations come primarily from sewer fee payments from customers. Expenses include personnel costs, operating costs, equipment related costs, transfers to support capital projects, debt service payments and an overhead transfer to the General Fund.

The budget for FY 2022 provides for revenues of \$11,781,500 and expenditures of \$11,781,500 for a balanced budget. Expenses include enhancement requests totaling \$493,344 detailed below.

The revenue increase is driven by a 5% increase in rates that begins July 1, 2021, and projected growth of new residential and non-residential accounts.

Wastewater Expenses

Budgeted expenses for the wastewater system increase from \$10,892,800 in FY2021 to \$11,781,500 in FY2022. This represents an increase of \$888,700 or 8.2%.

Type of Expense	FY2021*	FY2022	Increase/ (Decrease)	% Increase
Personnel	\$ 1,859,549	\$ 2,167,400	\$ 307,851	16.6%
Operating	\$ 3,134,022	\$ 3,478,057	\$ 344,035	11.0%
Capital Improvements	\$ 153,638	\$ 413,638	\$ 260,000	169.2%
Contingency	\$ 103,804	\$ 100,000	(\$ 3,804)	(3.7%)
Transfer Out	\$ 5,641,787	\$ 5,622,405	(\$ 19,382)	0%
Total	\$10,892,800	\$11,781,500	\$ 888,700	8.2%

*Added 3 positions at mid-year at a prorated cost.

Explanation of change in expenses:

- **Personnel costs** – full year costs of mid-year added positions during FY2021 and adjustments to payroll and payroll related expenses pursuant to the City's multi-year fiscal forecast;
- **Operating costs** – increases in contract services, equipment leasing/rental, supplies and repairs and maintenance. These costs are partially offset by projected decreases in utility costs;
- **Capital** – ongoing equipment needs;

- **Enhancements** – included in the schedule and detailed below totaling \$493,344; and
- **Transfer Out** – while debt service costs increase slightly in FY2022, additional funds, \$500,583 are transferred in from development impact fees (DIF) to support this payment.

A schedule summarizing the revenues and expenditures in the Wastewater Fund is included in Attachment D.

Wastewater Recommended Budget Enhancements

The enhancement requests for Wastewater include one new position, a vehicle, other equipment and some operating costs as follows:

• Utilities General Manager	\$288,344 (includes all operating costs)
• Jetter Truck	\$175,000 (for collection line maintenance)
• Water Buffalo	\$ 10,000 (mounted tank for spill cleanup)
• Root control	<u>\$ 20,000</u> (ongoing operating costs for root control)
Total	<u>\$493,344</u>

Attachment E includes additional detail regarding these recommended enhancements.

Other Funds Overview

Operating Funds

Operating funds of the City also include special revenue funds that help support the operations of the City. These include special revenues that must be tracked in their own funds due to either the restrictions of their uses or for reporting purposes.

Other Fund activity is a complex component of the overall budget. Attachment F summarizes the activity discussed below.

The beginning fund balances of operating funds for FY2021 total \$40.2 million with FY2022 projected revenue being \$58.3 million and projected expenditures being \$60.3 million for a projected total ending balance of \$38.2 million. Out of this total, City Council has committed funds of \$10.6 million resulting in a projected unrestricted ending balance of \$27.6 million. The FY2022 planned budgeted revenues are \$61.5 million and planned budgeted expenditures of \$60.4 million, resulting in a projected ending balance of \$28.7 million with \$21.8 million being unrestricted.

Total Operating Funds FY 21 Beg Balance	FY2021 Projected Ending Balance	FY2022 Budgeted Revenues	FY2022 Budgeted Expenditures	FY2022 Projected Ending Fund Balance
\$40,237,793	\$27,632,017	\$61,541,712	\$60,442,780	\$28,730,949

Internal Service Funds

Internal Service funds include the newly allocated internal service funds approved by Council on December 15, 2020. A projected ending fund balance for FY2021 is \$6.3 million. After including the FY2022 budgeted revenues of \$1.2 million and budgeted expenditures of \$2.6 million a projected ending fund balance of \$4.9 million is projected at the end of FY2022.

Total Internal Service Funds Beg Balance	FY2021 Projected Ending Balance	FY2022 Budgeted Revenues	FY2022 Budgeted Expenditures	FY2022 Projected Ending Fund Balance
\$0	\$6,300,000	\$1,239,280	\$2,593,794	\$4,945,486

Capital Projects Funds

Capital projects funds include the General Capital Projects that contains the activity of the majority of the capital improvement plan (CIP) projects and the Enterprise Capital funds which hold the capital assets of the Wastewater and Transit Funds separately from the operating funds. Tracking and accounting for actual construction occurs within this fund.

These funds use transfers in to cover the costs of the capital projects for each fund in amounts equal to project costs. Ending fund balances of these funds are a reflection in timing of the completion of CIP projects and assets held for enterprise funds. These funds are dedicated to specific projects shown in the CIP adopted by the City Council after a duly advertised public hearing. These funds may not be moved to other projects or purposes without City Council first amending the CIP.

Capital Improvement Funding

The CIP funds are available for the City to use for capital improvement or maintenance. These funds are restricted by the type of improvement they can be used for and have expenses either captured within the fund or are transferred to support the CIP in the Capital Projects Fund.

The beginning fund balances for FY2021 total \$15.9 million with projected revenues of \$2.7 million and projected expenses of \$11.1 million with a projected ending balance of \$7.5 million. The FY2022 budgeted revenues of \$2.4 million and budgeted expenditures of \$2.5 million leave these funds at an estimated FY2022 ending fund balance of \$7.4 million.

Total Capital Improvement Funds Beg Balance	FY 21 Projected Ending Balance	FY22 Budgeted Revenues	FY 22 Budgeted Expenditures	FY 22 Projected Ending Fund Balance
\$15,945,977	\$7,552,927	\$2,447,088	\$2,589,263	\$7,410,752

Capital Expansion Funding

Capital expansion funding includes all the development impact fee funds that are restricted to be used only to expand infrastructure to mitigate the impacts of development and cannot be used for maintenance projects.

These revenues are held in separate funds based on the fee collected and had a cumulative FY2021 beginning balance of \$25.4 million with projected revenues of \$4.2 million and projected capital projects expenditures of \$18.6 million with a projected ending balance of \$11 million. The FY2022 budgeted revenues of \$6.5 million and budgeted project expenditures of \$1.1 million leave these funds with an estimated FY2022 ending balance of \$16.5 million available for allocation to eligible CIP expansion projects.

Total Capital Expansion Funds Beg Balance	FY2021 Projected Ending Balance	FY2022 Budgeted Revenues	FY2022 Budgeted Expenditures	FY2022 Projected Ending Fund Balance
\$25,477,423	\$11,090,621	\$6,557,719	\$1,100,583	\$16,547,757

Debt Service Funds

The debt service funds consist of the CFD facilities debt service fund and the Beaumont Financing Authority funds. These funds are used for issuing debt and collecting special assessments to cover debt service payments. These balances include the cash held at the trustee, investments in CFD bonds and the liabilities owed to bond holders. These funds are not eligible for allocation and are only used in tracking and paying for CFD supported debt service payments.

Internal Service Fund Programs and FY2022 Budgeted Expenditures

On December 15, 2020, the City Council allocated unassigned funds from the CFD Administrative Fund to establish four internal service funds (ISF) as follows:

- **Facility Maintenance/ Replacement Fund** – to provide for major maintenance of City facilities and to accumulate funds to assist in potential replacement of facilities - \$3.5 million allocated,
- **Vehicle Replacement Fund** – to provide for replacement of existing vehicle inventory and for acquisition of new vehicles - \$1.4 million allocated,
- **I.T. Equipment Replacement Fund** – to provide for replacement of equipment and information technology infrastructure - \$800,000 allocated, and
- **Equipment Replacement Fund** – to provide for replacement of non-I.T. equipment and for the acquisition of new equipment when approved - \$600,000 allocated.

Following the allocation of these funds, City staff has developed models for the vehicle replacement and I.T. equipment funds. The Facility Maintenance fund and General Equipment fund will be partially implemented with a transfer into these ISFs but no direct attachment to the department budgets. These models will be further developed and fully implemented in conjunction with the FY2023 budget.

The developed models for vehicles and I.T. equipment identify the vehicles and I.T. equipment needs projected for the next 10 years. The facility maintenance model looks forward 30 years to identify expected maintenance needs. This analysis allows City staff to then calculate and program funds sufficient to ensure they are adequately capitalized. Steps have been taken to ensure the funds have adequate balances to provide a reserve if financial challenges required a pause in contributions to the funds. An annual allocation to the internal service funds for FY2022 is initially determined to be as follows:

- Vehicle Replacement ISF \$464,894 annual contribution, and
- IT Equipment Replacement ISF \$250,500 annual contribution.

These contributions will come from the various department budgets and will be reassessed annually based on actual expenditures and re-evaluation of projected future expenditures.

FY 2022 Planned Expenditures from the Internal Service Funds

Vehicle Internal Service Fund

The model for the vehicle ISF provides for replacement of vehicles on a schedule based on age and mileage. All vehicles will be evaluated using these criteria and also by evaluating the cost of maintenance and gas consumption to determine the appropriate replacement time frame. There will typically be some vehicles that need to be replaced before the targeted age and mileage threshold and others that can be extended beyond the established schedule.

The City fleet will require an initial catch up in the first two years of operating the ISF due to aged vehicles. For FY2022, the budget provides for replacing 22 vehicles at a cost of \$898,217. Future years are projected to require lower expenditure levels.

Information Technology Internal Service Fund

The model for the I.T. ISF provides for the replacement of I.T. equipment and infrastructure on a scheduled basis. At this time, software and other related costs are not included in the ISF. Equipment will be replaced on the regular schedule to ensure system reliability.

The replacement model is based upon research of other cities and is in line with best practices. Planned expenditures from the I.T. ISF for FY2022 are \$236,000.

Information technology projects for FY2022 include:

- Data Center Maintenance and Improvements - \$50,000,
- Inspector Vehicle mobile technology - \$36,000,
- Camera Maintenance and Updating - \$42,000,
- Application management and security maintenance - \$44,000, and
- Evidence server upgrade (PD) – 64,000.

Facility Maintenance Internal Service Fund

The model for the Facility Maintenance ISF is being finalized. There is a significant backlog of large maintenance projects at City Hall, the Police Department and the Fire Station. For FY2022, several CIP projects will be created to address some of this backlog. These projects will be funded from a transfer from the Facility Maintenance ISF. The CIP projects to be funded from the Facility Maintenance ISF total \$1,459,577 and are detailed in the CIP report to be discussed as a separate agenda item.

For FY2022, City staff is recommending an allocation of \$250,000 to the Facility Maintenance ISF as this approximates future annual allocation needs. This transfer is included in budgeted transfers out of the General Fund.

Equipment Replacement Internal Service Fund

This fund will be used for the replacement of existing equipment and purchase of new equipment. This model has not yet been developed and no expenditures are currently planned from this fund for FY2022. City staff is recommending an allocation of \$150,000 to this fund as this approximates historical annual spending on equipment. This transfer is included in budgeted transfers out of the General Fund.

Fiscal Impact:

This first meeting regarding the FY2022 Budget is intended to seek guidance from the City Council regarding the proposed budget. No fiscal impact is anticipated from this discussion. City staff estimates it cost approximately \$58,500 to prepare this report.

Recommended Action:

Review the proposed FY 2022 Budget and provide direction to City staff.

Attachments:

- A. FY 2022 General Fund Revenues
- B. FY 2022 General Fund Expenditures by Department
- C. FY 2022 General Fund – proposed budget Enhancements
- D. FY 2022 Wastewater Fund – Revenues and Expenditures
- E. FY 2022 Wastewater Fund – proposed budget Enhancements
- F. FY 2022 All Funds Summary



City of Beaumont, CA

Item 8.
Budget Worksheet
Group Summary

For Fiscal: 2021-2022 Period Ending: 06/30/2022

SubCategor...	Defined Budgets					
	2019-2020 Total Budget	2019-2020 Total Activity	2020-2021 Total Budget	2020-2021 Total Activity	2021-2022 Total Budget	2021-2022 YTD Activity
Fund: 100 - GENERAL FUND						
Revenue						
Category: 40 - TAXES						
400 - Real Property Taxes	4,823,562.00	5,855,207.39	6,174,605.00	3,761,325.25	6,516,588.00	0.00
403 - Personal Property Taxes	228,000.00	254,416.12	267,137.00	210,630.22	277,822.00	0.00
406 - Franchise Fees	7,953,875.00	8,074,503.93	3,019,846.00	2,401,200.76	3,111,474.00	0.00
409 - Sales Taxes	5,436,227.01	6,593,629.85	6,375,048.00	4,378,474.95	6,926,638.00	0.00
420 - Other Taxes	6,896,380.86	6,964,756.83	7,533,745.00	4,380,029.98	8,462,873.00	0.00
Category: 40 - TAXES Total:	25,338,044.87	27,742,514.12	23,370,381.00	15,131,661.16	25,295,395.00	0.00
Category: 41 - LICENSES						
430 - Business Licenses	214,221.00	337,993.21	325,000.00	222,248.28	405,000.00	0.00
Category: 41 - LICENSES Total:	214,221.00	337,993.21	325,000.00	222,248.28	405,000.00	0.00
Category: 42 - PERMITS						
450 - Building Permits	3,349,500.00	2,134,649.88	2,200,000.00	1,300,963.57	2,857,250.00	0.00
453 - Inspections	1,080,100.00	270,960.79	210,000.00	200,150.70	376,200.00	0.00
456 - Other Permits	738,285.00	561,801.25	417,500.00	388,397.73	746,575.00	0.00
515 - Public Works	0.00	-75,974.50	0.00	0.00	0.00	0.00
Category: 42 - PERMITS Total:	5,167,885.00	2,891,437.42	2,827,500.00	1,889,512.00	3,980,025.00	0.00
Category: 45 - INTERGOVERNMENTAL						
465 - State	21,288.00	0.00	0.00	0.00	0.00	0.00
470 - Local	0.00	2,549.65	0.00	0.00	0.00	0.00
Category: 45 - INTERGOVERNMENTAL Total:	21,288.00	2,549.65	0.00	0.00	0.00	0.00
Category: 47 - CHARGES FOR SERVICE						
500 - Sanitation	0.00	131,257.25	0.00	101,363.14	0.00	0.00
505 - Animal Control	118,000.00	112,083.38	119,450.00	66,233.22	111,564.00	0.00
510 - Community Development	5,000.00	5,526.00	5,500.00	4,316.00	6,135.00	0.00
515 - Public Works	13,000.00	11,398.00	7,900.00	49,237.06	15,500.00	0.00
525 - Abatements	66,000.00	68,021.58	54,500.00	41,121.35	67,399.00	0.00
530 - Public Safety	259,460.21	403,344.09	537,850.00	184,589.84	450,496.00	0.00
535 - Facilities	125,000.00	107,306.26	125,000.00	72,424.53	131,020.00	0.00
540 - Programs	110,500.00	72,542.00	20,000.00	2,085.00	18,750.00	0.00
545 - Other	68,450.00	270,977.46	148,200.00	76,756.05	280,050.00	0.00
Category: 47 - CHARGES FOR SERVICE Total:	765,410.21	1,182,456.02	1,018,400.00	598,126.19	1,080,914.00	0.00

Budget Worksheet

For Fiscal: 2021-2022 Period Ending Item 8. 2

Defined Budgets

SubCategor...	2019-2020 Total Budget	2019-2020 Total Activity	2020-2021 Total Budget	2020-2021 Total Activity	2021-2022 Total Budget	2021-2022 YTD Activity
Category: 50 - FINES AND FORFEITURES						
555 - Vehicle	111,780.00	79,266.72	70,000.00	51,087.05	76,608.00	0.00
557 - Other	22,070.00	38,370.92	45,000.00	36,778.89	52,195.00	0.00
Category: 50 - FINES AND FORFEITURES Total:	133,850.00	117,637.64	115,000.00	87,865.94	128,803.00	0.00
Category: 53 - COST RECOVERY						
465 - State	0.00	26,259.52	25,000.00	0.00	20,000.00	0.00
565 - Other Income	0.00	511,985.10	334,000.00	5,824.68	225,000.00	0.00
Category: 53 - COST RECOVERY Total:	0.00	538,244.62	359,000.00	5,824.68	245,000.00	0.00
Category: 54 - MISCELLANEOUS REVENUES						
560 - Investment Earnings	1,000.00	191,115.55	170,000.00	47,218.19	275,000.00	0.00
565 - Other Income	146,500.00	432,586.61	154,500.00	189,406.17	161,500.00	0.00
Category: 54 - MISCELLANEOUS REVENUES Total:	147,500.00	623,702.16	324,500.00	236,624.36	436,500.00	0.00
Category: 58 - OTHER FINANCING SOURCES						
595 - Sale of Assets	5,000.00	33,430.98	15,000.00	0.00	0.00	0.00
Category: 58 - OTHER FINANCING SOURCES Total:	5,000.00	33,430.98	15,000.00	0.00	0.00	0.00
Category: 90 - TRANSFERS						
900 - Transfers	6,121,237.00	6,258,158.82	8,757,651.00	3,945,158.86	7,801,175.00	0.00
Category: 90 - TRANSFERS Total:	6,121,237.00	6,258,158.82	8,757,651.00	3,945,158.86	7,801,175.00	0.00
Revenue Total:	37,914,436.08	39,728,124.64	37,112,432.00	22,117,021.47	39,372,812.00	0.00
Fund: 100 - GENERAL FUND Total:	37,914,436.08	39,728,124.64	37,112,432.00	22,117,021.47	39,372,812.00	0.00
Report Total:	37,914,436.08	39,728,124.64	37,112,432.00	22,117,021.47	39,372,812.00	0.00

Fund Summary

Defined Budgets

Fund	2019-2020 Total Budget	2019-2020 Total Activity	2020-2021 Total Budget	2020-2021 Total Activity	2021-2022 Total Budget	2021-2022 YTD Activity
100 - GENERAL FUND	37,914,436.08	39,728,124.64	37,112,432.00	22,117,021.47	39,372,812.00	0.00
Report Total:	37,914,436.08	39,728,124.64	37,112,432.00	22,117,021.47	39,372,812.00	0.00



Categor...	Defined Budgets					
	2019-2020 Total Budget	2019-2020 Total Activity	2020-2021 Total Budget	2020-2021 Total Activity	2021-2022 Total Budget	2021-2022 YTD Activity
Fund: 100 - GENERAL FUND						
Expense						
Department: 0000 - NON-DEPARTMENTAL						
60 - PERSONNEL SERVICES	0.00	0.00	60,000.00	0.00	0.00	0.00
65 - OPERATING COSTS	0.00	33,473.98	462,569.00	394,294.00	0.00	0.00
70 - CAPITAL IMPROVEMENTS	0.00	0.00	82,000.00	6,512.85	0.00	0.00
90 - TRANSFERS	154,000.00	71,553.64	6,955,545.20	270,954.99	445,271.00	0.00
Department: 0000 - NON-DEPARTMENTAL Total:	154,000.00	105,027.62	7,560,114.20	671,761.84	445,271.00	0.00
Department: 1050 - CITY COUNCIL						
60 - PERSONNEL SERVICES	27,153.00	26,805.83	27,153.00	19,105.37	27,153.00	0.00
65 - OPERATING COSTS	72,347.00	59,251.98	21,760.00	2,096.31	15,900.00	0.00
Department: 1050 - CITY COUNCIL Total:	99,500.00	86,057.81	48,913.00	21,201.68	43,053.00	0.00
Department: 1150 - CITY CLERK						
60 - PERSONNEL SERVICES	157,801.00	130,539.66	159,829.00	102,639.88	171,322.00	0.00
65 - OPERATING COSTS	16,705.00	18,360.12	69,865.00	3,971.59	22,750.00	0.00
70 - CAPITAL IMPROVEMENTS	0.00	0.00	0.00	0.00	21,127.00	0.00
Department: 1150 - CITY CLERK Total:	174,506.00	148,899.78	229,694.00	106,611.47	215,199.00	0.00
Department: 1200 - ADMINISTRATION						
60 - PERSONNEL SERVICES	1,285,409.00	1,344,606.24	1,358,401.00	1,069,904.69	1,420,497.00	0.00
65 - OPERATING COSTS	-237,039.00	-173,799.44	535,896.00	467,939.04	556,638.00	0.00
70 - CAPITAL IMPROVEMENTS	0.00	0.00	0.00	0.00	13,581.00	0.00
77 - CONTINGENCY	47,960.79	0.00	150,001.00	0.00	150,000.00	0.00
Department: 1200 - ADMINISTRATION Total:	1,096,330.79	1,170,806.80	2,044,298.00	1,537,843.73	2,140,716.00	0.00
Department: 1225 - FINANCE AND BUDGETING						
60 - PERSONNEL SERVICES	866,314.00	765,549.64	883,766.00	653,913.76	932,137.00	0.00
65 - OPERATING COSTS	99,525.00	198,944.05	239,568.00	196,081.11	319,550.00	0.00
70 - CAPITAL IMPROVEMENTS	0.00	0.00	0.00	0.00	9,054.00	0.00
Department: 1225 - FINANCE AND BUDGETING Total:	965,839.00	964,493.69	1,123,334.00	849,994.87	1,260,741.00	0.00
Department: 1230 - I.T.						
60 - PERSONNEL SERVICES	390,767.00	295,745.80	401,270.00	276,728.40	538,002.00	0.00
65 - OPERATING COSTS	768,275.00	673,573.21	1,092,479.00	639,320.73	1,032,063.00	0.00
70 - CAPITAL IMPROVEMENTS	0.00	0.00	150,000.00	151,026.10	6,036.00	0.00
Department: 1230 - I.T. Total:	1,159,042.00	969,319.01	1,643,749.00	1,067,075.23	1,576,101.00	0.00

Defined Budgets

Categor...	2019-2020 Total Budget	2019-2020 Total Activity	2020-2021 Total Budget	2020-2021 Total Activity	2021-2022 Total Budget	2021-2022 YTD Activity
Department: 1240 - RISK AND HUMAN RESOURCES						
60 - PERSONNEL SERVICES	426,707.00	442,020.96	495,994.00	303,838.50	535,912.00	0.00
65 - OPERATING COSTS	1,223,402.00	1,239,756.82	1,622,700.00	1,662,783.21	1,894,059.00	0.00
70 - CAPITAL IMPROVEMENTS	0.00	0.00	0.00	0.00	4,527.00	0.00
Department: 1240 - RISK AND HUMAN RESOURCES Total:	1,650,109.00	1,681,777.78	2,118,694.00	1,966,621.71	2,434,498.00	0.00
Department: 1300 - LEGAL						
65 - OPERATING COSTS	750,454.00	1,424,505.40	1,250,500.00	1,112,421.93	1,500,000.00	0.00
Department: 1300 - LEGAL Total:	750,454.00	1,424,505.40	1,250,500.00	1,112,421.93	1,500,000.00	0.00
Department: 1350 - COMMUNITY DEVELOPMENT						
60 - PERSONNEL SERVICES	378,403.00	350,855.77	371,753.00	274,975.35	405,937.00	0.00
65 - OPERATING COSTS	146,207.00	63,195.22	107,241.00	42,016.55	113,400.00	0.00
70 - CAPITAL IMPROVEMENTS	0.00	0.00	0.00	0.00	6,791.00	0.00
Department: 1350 - COMMUNITY DEVELOPMENT Total:	524,610.00	414,050.99	478,994.00	316,991.90	526,128.00	0.00
Department: 1550 - COMMUNITY SERVICES						
60 - PERSONNEL SERVICES	599,309.00	499,435.01	438,612.00	304,099.51	521,870.00	0.00
65 - OPERATING COSTS	151,110.00	53,067.59	50,200.00	26,071.77	172,285.00	0.00
70 - CAPITAL IMPROVEMENTS	12,000.00	0.00	0.00	0.00	10,563.00	0.00
Department: 1550 - COMMUNITY SERVICES Total:	762,419.00	552,502.60	488,812.00	330,171.28	704,718.00	0.00
Department: 2000 - ANIMAL CONTROL						
60 - PERSONNEL SERVICES	240,388.00	229,648.83	255,180.00	173,975.17	263,131.00	0.00
65 - OPERATING COSTS	77,816.00	61,790.97	69,713.00	35,256.27	69,505.00	0.00
70 - CAPITAL IMPROVEMENTS	0.00	0.00	42,823.68	0.00	11,546.00	0.00
Department: 2000 - ANIMAL CONTROL Total:	318,204.00	291,439.80	367,716.68	209,231.44	344,182.00	0.00
Department: 2030 - COMMUNITY ENHANCEMENT						
60 - PERSONNEL SERVICES	236,809.00	224,944.73	250,155.00	165,522.42	257,031.00	0.00
65 - OPERATING COSTS	58,597.00	93,726.31	57,626.00	15,649.52	64,490.00	0.00
Department: 2030 - COMMUNITY ENHANCEMENT Total:	295,406.00	318,671.04	307,781.00	181,171.94	321,521.00	0.00
Department: 2040 - PUBLIC SAFETY - OES						
65 - OPERATING COSTS	6,000.00	0.00	0.00	0.00	91,900.00	0.00
Department: 2040 - PUBLIC SAFETY - OES Total:	6,000.00	0.00	0.00	0.00	91,900.00	0.00
Department: 2050 - POLICE						
60 - PERSONNEL SERVICES	9,502,900.00	9,307,187.71	9,180,814.00	6,536,040.53	10,003,740.00	0.00
65 - OPERATING COSTS	800,059.00	788,429.28	852,728.00	690,513.12	1,127,150.00	0.00
70 - CAPITAL IMPROVEMENTS	252,688.36	216,560.91	366,935.32	349,938.02	443,944.00	0.00
Department: 2050 - POLICE Total:	10,555,647.36	10,312,177.90	10,400,477.32	7,576,491.67	11,574,834.00	0.00
Department: 2080 - K-9						
65 - OPERATING COSTS	5,900.00	3,473.60	5,550.00	1,052.15	11,100.00	0.00
Department: 2080 - K-9 Total:	5,900.00	3,473.60	5,550.00	1,052.15	11,100.00	0.00

Defined Budgets

Categor...	2019-2020 Total Budget	2019-2020 Total Activity	2020-2021 Total Budget	2020-2021 Total Activity	2021-2022 Total Budget	2021-2022 YTD Activity
Department: 2090 - POLICE SUPPORT						
60 - PERSONNEL SERVICES	1,688,736.00	1,480,503.27	1,652,093.00	1,115,416.82	1,807,103.00	0.00
65 - OPERATING COSTS	8,215.00	5,296.54	1,565.00	1,858.51	15,563.00	0.00
70 - CAPITAL IMPROVEMENTS	0.00	0.00	0.00	0.00	33,199.00	0.00
Department: 2090 - POLICE SUPPORT Total:	1,696,951.00	1,485,799.81	1,653,658.00	1,117,275.33	1,855,865.00	0.00
Department: 2100 - FIRE						
65 - OPERATING COSTS	4,420,400.00	4,123,312.10	4,579,308.00	2,074,108.18	4,060,081.00	0.00
70 - CAPITAL IMPROVEMENTS	0.00	0.00	0.00	0.00	10,498.00	0.00
Department: 2100 - FIRE Total:	4,420,400.00	4,123,312.10	4,579,308.00	2,074,108.18	4,070,579.00	0.00
Department: 2150 - BUILDING AND SAFETY						
60 - PERSONNEL SERVICES	621,779.00	512,168.94	736,475.00	461,835.54	776,229.00	0.00
65 - OPERATING COSTS	670,955.00	443,909.63	223,113.00	61,329.12	675,180.00	0.00
70 - CAPITAL IMPROVEMENTS	0.00	24,322.54	0.00	0.00	18,798.00	0.00
Department: 2150 - BUILDING AND SAFETY Total:	1,292,734.00	980,401.11	959,588.00	523,164.66	1,470,207.00	0.00
Department: 3100 - ENGINEERING AND PUBLIC WORKS						
60 - PERSONNEL SERVICES	728,284.00	620,086.22	975,853.00	647,676.47	1,100,249.00	0.00
65 - OPERATING COSTS	507,721.00	451,357.23	176,090.00	131,707.67	424,190.00	0.00
70 - CAPITAL IMPROVEMENTS	60,000.00	56,149.87	0.00	0.00	59,440.00	0.00
Department: 3100 - ENGINEERING AND PUBLIC WORKS Total:	1,296,005.00	1,127,593.32	1,151,943.00	779,384.14	1,583,879.00	0.00
Department: 3250 - STREET MAINTENANCE						
60 - PERSONNEL SERVICES	535,773.00	512,647.28	633,884.99	349,769.78	780,304.00	0.00
65 - OPERATING COSTS	1,115,557.00	923,935.38	992,740.00	687,773.40	1,098,583.00	0.00
70 - CAPITAL IMPROVEMENTS	38,331.72	43,373.22	38,332.00	28,748.79	158,140.00	0.00
Department: 3250 - STREET MAINTENANCE Total:	1,689,661.72	1,479,955.88	1,664,956.99	1,066,291.97	2,037,027.00	0.00
Department: 6000 - BUILDING MAINTENANCE						
65 - OPERATING COSTS	519,342.56	511,434.81	434,764.00	326,727.10	487,926.00	0.00
70 - CAPITAL IMPROVEMENTS	6,038.44	6,465.81	0.00	0.00	0.00	0.00
Department: 6000 - BUILDING MAINTENANCE Total:	525,381.00	517,900.62	434,764.00	326,727.10	487,926.00	0.00
Department: 6050 - PARKS AND GROUNDS MAINT						
60 - PERSONNEL SERVICES	2,081,094.00	1,774,945.17	1,869,331.00	1,305,936.81	2,113,925.00	0.00
65 - OPERATING COSTS	1,234,211.00	1,099,974.70	1,105,720.00	880,464.05	1,675,757.00	0.00
70 - CAPITAL IMPROVEMENTS	98,950.00	47,727.45	275,500.00	53,423.40	112,934.00	0.00
Department: 6050 - PARKS AND GROUNDS MAINT Total:	3,414,255.00	2,922,647.32	3,250,551.00	2,239,824.26	3,902,616.00	0.00
Department: 6150 - CITY POOL						
60 - PERSONNEL SERVICES	32,381.00	38,582.13	0.00	0.00	0.00	0.00
65 - OPERATING COSTS	28,700.00	22,579.46	15,000.00	0.00	0.00	0.00

Budget Worksheet

For Fiscal: 2021-2022 Period Ending Item 8. 2

Defined Budgets

Categor...	2019-2020 Total Budget	2019-2020 Total Activity	2020-2021 Total Budget	2020-2021 Total Activity	2021-2022 Total Budget	2021-2022 YTD Activity
Department: 6150 - CITY POOL Total:	61,081.00	61,161.59	15,000.00	0.00	0.00	0.00
Expense Total:	32,914,435.87	31,141,975.57	41,778,396.19	24,075,418.48	38,598,061.00	0.00
Fund: 100 - GENERAL FUND Total:	32,914,435.87	31,141,975.57	41,778,396.19	24,075,418.48	38,598,061.00	0.00
Report Total:	32,914,435.87	31,141,975.57	41,778,396.19	24,075,418.48	38,598,061.00	0.00

Fund Summary

Defined Budgets

Fund	2019-2020 Total Budget	2019-2020 Total Activity	2020-2021 Total Budget	2020-2021 Total Activity	2021-2022 Total Budget	2021-2022 YTD Activity
100 - GENERAL FUND	32,914,435.87	31,141,975.57	41,778,396.19	24,075,418.48	38,598,061.00	0.00
Report Total:	32,914,435.87	31,141,975.57	41,778,396.19	24,075,418.48	38,598,061.00	0.00

**FY 2022 Budget Preparation
General Fund Summary of Enhancement Requests**

<i>New Position Requests in Enhancements Recommended by the City Manager -</i>	\$ 1,092,376.00
<i>Operating Cost Enhancements Recommended by the City Manager -</i>	\$ 549,641.00
Total Enhancements Recommended -	\$ 1,642,017.00

Expenditure Group	Department	Cost of Proposed Enhancement	Type of Request	Summary of Request	Explanation of Need for the Enhancement
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ENHANCEMENT REQUESTS - NEW POSITIONS (and position related costs)

Public Safety	Police Department - 2090	\$ 10,820	<i>Upgrade of Position</i>	Convert Police Services Analyst to Management Analyst Position	This position currently has duties that justify an increase in the position level and this upgrade will allow for assignment of additional responsibilities.
	Police Department - 2050	\$ 551,837	<i>New Positions/Upgrades</i>	Adds 3 new police officer positions, adds a PD trainee position and upgrades two police officer positions to corporals	These positions are requested to keep pace with the growth in the City and to ensure public safety services continue to meet the demands going forward.
	(combined with above)	\$ 55,992	<i>New Position - Operating costs</i>	Provides for the non-personnel costs for the positions above	If the new police department positions are approved, these costs will be necessary to ensure continuity of services.
	Police Support -2090	\$ 88,234	<i>New Position</i>	Add 1 Support Services Specialist	This position is requested to meet the ongoing demands of City growth and to support the added sworn officers.
Administration	Info Tech - 1230	\$ 90,962	<i>New Position</i>	Additional Desktop Analyst	This position is requested to meet the growth in the City and the increasing reliance on technology to conduct our work. It is essential to allow existing staff to deal with matters of increasing complexity.
	(combined with above)	\$ 2,040	<i>New Position - Operating costs</i>	Non Personnel costs for Desktop Analyst	These costs will be necessary if the new IT analyst position is approved.
	Finance - 1225	\$ 12,743	<i>Position Upgrade</i>	Conversion of a Senior Accountant to Asst Finance Director position	This provides for improved flexibility in dealing with the complicated workload in the Finance Department.
Public Works	Streets Maintenance - 3250	\$ 187,128	<i>New Positions</i>	Add two Street Maintenance Workers	These new positions will allow the City to make progress in addressing street maintenance needs.
	(combined with above)	\$ 90,000	<i>New position - Operating costs</i>	Vehicles associated with new Street Maintenance Worker positions (2)	If the new positions are approved, these vehicles will be needed to conduct daily work. If approved, these new vehicles will be purchased out of the ISF and reduce the GF allocation required. It is in this request to demonstrate the full cost of adding these positions.
	(combined with above)	\$ 2,620	<i>New Position - Operating costs</i>	Operating Costs associated with new Street Maintenance Worker positions	Additional costs needed if street maintenance positions are approved.
Total Personnel		\$ 1,092,376			

ENHANCEMENTS - OPERATING COSTS

Administration	City Clerk - 1150	\$ 7,000	<i>operating</i>	Electronic imaging service- scanning	This will allow for completion of scanning to improve record keeping and transparency
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	Administration - 1200	\$ 15,000	Operating	My City App - mobile friendly ability to share and receive information from the public	This provides an easier method for citizens to access content and to find the services they are seeking.
	Administration -1200	\$ 15,000	Operating	Economic Dev Market Data Service - Buxton Scout Srv	This provides for significant improvement in data and analysis that will be useful for business expansion and retention efforts. Information will be obtained to allow for a more targeted economic development strategy.
	Administration -1200	\$ 10,000	Operating	Economic Development Website	This provides for the setup of an economic development website to improve attraction and retention of businesses.
	Administration -1200	\$ 5,000	Operating	Citywide Banner Program - provides for putting up physical banners at selected street intersections	This provides for enhancement of City Pride.
	Admin - 1200	1,250	Operating	New Events for the City	
	Finance - 1225	\$ 12,000	operating	Budget Book Software	This will allow the Finance Department to make additional strides in providing a seamless financial package. It will allow for central consolidation of financial information in a clear and understandable manner. To address audit finding and to allow for City fee adjustments
	Finance -1225	22,000	Operating	Cost allocation study	
Community Services	Parks and Grounds - 6050	\$ 7,200	Operating	Replant Ring Ranch Road landscaping and replace irrigation	This will provide for City beautification in the Ring Ranch Road area.
	Parks and Recreation - 1550	\$ 12,980	Operating	Funds community events and activities that are new to the budget	This will provide for several new programs, including pickleball, E sports league, senior lunch and learn, movie nights, screen and sound company.
	Parks and Rec - 1550	2,500	Operating	Annual inspections and maintenance of basketball hoops	
	Parks and Grounds - 6050	75,000	Operating	Increased Tree Trimming	This will allow for significant improvements in the ability to trim trees throughout the City
	Parks and Grounds - 6050	66,000	Operating	New Maint Costs for Parks (increase over \$25k current budget)	
	Parks and Grounds - 6050	133,526	Operating	Improve the appearance and functionality of City right of way areas.	Improvements to right of way management. This will include cleanup and replanting
	Parks and Grounds - 6050	114,126	Operating	Increased spending for park management	More work is needed and areas are growing with new parks including brick dusting baseball fields, installing backflow cages, installing more wood mulch and hydroseeding on top of the amount we're already doing.
	Parks and Grounds - 6050	6,059	Operating	Turf Management Training for parks staff	Increase in training budget needed because Turf management training is more expensive and we are building a library of manuals and books for employees to check out and use for certifications.
Public Works	Public Works - 3100	\$ 45,000	Operating/ Equipment	New survey equipment	This will allow the City to have improved equipment for construction activities.
	Operating Total	549,641			



City of Beaumont, CA

Budget Worksheet

Wastewater Fund

Item 8.

SubCategory	FY 2021 Budget	FY 2022 Proposed Budget
Fund: 700 - WASTEWATER FUND		
Revenue		
Category: 50 - FINES AND FORFEITURES		
557 - Other	\$ -	\$ 5,000
Category: 50 - FINES AND FORFEITURES Total:	\$ -	\$ 5,000
Category: 53 - COST RECOVERY		
565 - Other Income	\$ 6,300	\$ 5,000
Category: 53 - COST RECOVERY Total:	\$ 6,300	\$ 5,000
Category: 54 - MISCELLANEOUS REVENUES		
560 - Investment Earnings	\$ 37,500	\$ 100,000
Category: 54 - MISCELLANEOUS REVENUES Total:	\$ 37,500	\$ 100,000
Category: 56 - PROPRIETARY REVENUES		
570 - WasteWater	\$ 10,849,000	\$ 11,671,500
Category: 56 - PROPRIETARY REVENUES Total:	\$ 10,849,000	\$ 11,671,500
Revenue Total:	\$ 10,892,800	\$ 11,781,500
Expense		
Category: 60 - PERSONNEL SERVICES		
600 - SALARIES AND WAGES	\$ 1,340,577	\$ 1,557,349
610 - BENEFITS	\$ 501,401	\$ 576,339
615 - OTHER	\$ 17,572	\$ 21,412
699 - OTHER	\$ 1,500	\$ 12,300
Category: 60 - PERSONNEL SERVICES Total:	\$ 1,861,049	\$ 2,167,400
Category: 65 - OPERATING COSTS		
650 - UTILITIES	\$ 827,821	\$ 767,796
655 - ADMINISTRATIVE	\$ 291,216	\$ 187,475
660 - FLEET COSTS	\$ 31,980	\$ 34,820
670 - REPAIRS AND MAINTENANCE	\$ 60,695	\$ 96,200
675 - SUPPLIES	\$ 379,610	\$ 553,900
690 - CONTRACTUAL SERVICES	\$ 1,062,563	\$ 1,188,816
699 - OTHER	\$ 478,637	\$ 649,050
Category: 65 - OPERATING COSTS Total:	\$ 3,132,522	\$ 3,478,057
Category: 70 - CAPITAL IMPROVEMENTS		
700 - EQUIPMENT	\$ 153,638	\$ 198,638
705 - VEHICLE	\$ -	\$ 215,000
750 - OTHER	\$ 103,804	\$ 100,000
Category: 70 - CAPITAL IMPROVEMENTS Total:	\$ 257,442	\$ 513,638
Category: 90 - TRANSFERS		
900 - Transfers	\$ 5,641,787	\$ 5,622,405
Category: 90 - TRANSFERS Total:	\$ 5,641,787	\$ 5,622,405
Expense Total:	\$ 10,892,800	\$ 11,781,500
Fund: 700 - WASTEWATER FUND Surplus (Deficit):	\$ -	\$ -

Waste Water Fund - Recommended Enhancements

Department	Enhancement Amount	Type of Request	Description	Explanation of Enhancement Request
Wastewater - 4050	\$ 175,000	Vehicle	Jetter Truck for Collections Department - this provides improved access to lines	This will provide for greater access to restricted or encroached areas the Vactor truck cannot reach. Many areas of the original downtown area have alley ways that are difficult to access. This will provide for improved access.
	\$ 20,000	Operating	Root control application to gravity sewer mains	Sewer root intrusion is seen throughout the system. The majority of calls are the result of root related problems.
	\$ 10,000	Operating	Water Buffalo - mounted water tank with pump for spill cleanup and other uses	This mobile tank will be used for clean-ups and wash downs. It can be used in locations where water access is unavailable.
	\$ 244,614	New Position	Utilities General Manager	This provides for expanded authority as the City's waste water system continues to grow and as the City moves toward Title 22 water recovery and deployment. This growing department has a significant level of infrastructure projects, dealing with City growth, regulatory demands that require additional managerial resources.
	\$ 43,730	Operating	Operating Costs associated with new GM position	These costs will be necessary, this includes purchasing of a new vehicle at an estimated cost of \$40,000
Total of Recommended Items		\$ 493,344		

City of Beaumont
Fund Balances and Projections
For Budget 2020-2021

Operating

Fund	FY 20-21				Committed Funds to Projects & Other	Projected End/Beq Fund		Projected Restricted Balance	Estimated Unrestricted
	Beginning Fund Balance	Projected Revenues	Projected Expenses	Projected Revenues		Balance	Balance		
100 - General Fund	21,398,226.71	36,927,151.00	32,811,787.00	3,203,162.94	9,891,270.20	15,622,320.51	3,203,162.94	15,622,320.51	
120 - Self Insurance	2,667,433.94	537,425.00	1,696.00	19,411.73		3,203,162.94	19,411.73		
110 - Successor Agency	19,411.73								
200 - Gas Tax		1,131,048.00	1,131,048.00						
220 - COPS		367,812.37	147,589.85	172,833.97		342,568.25	342,568.25		
225 - Asset Seizures (State)		290,939.00	8,655.15	1,899.65		297,694.50	297,694.50		
230 - Asset Seizure (Federal)		6,027.44	4,542.00			10,569.44	10,569.44		
240 - Other Special Revenue		163,173.34	30,796.05	37,886.99		155,982.40	155,982.40		
250 - CFD (Admin)		8,312,829.33	1,598,785.00	8,479,322.00		1,432,292.33	1,432,292.33		
255 - CFD (Maint)		534,499.25	3,895,009.00	3,895,009.00		534,499.25	534,499.25		
260 - CFD (Public Safety)		545,140.14	571,020.00	571,020.00		545,140.14	545,140.14		
700 - Wastewater		5,588,339.00	10,740,500.00	10,173,970.00	688,343.43	5,466,525.57		5,466,525.57	
750 - Transit		342,111.00	2,742,273.00	3,084,384.00					
860 - Evidence		1,850.04				1,850.04			
Total	40,237,793.29	58,334,794.05	60,360,956.61	10,579,613.63		27,632,017.10	4,031,239.30	18,134,252.23	

Internal Service Funds

Fund	FY 20-21				Committed Funds to Projects & Other	Projected End/Beq Fund		Projected Restricted Balance	Estimated Unrestricted
	Beginning Fund Balance	Projected Revenues	Projected Expenses	Projected Revenues		Balance	Balance		
600 - Internal Service Funds		6,300,000.00				6,300,000.00	6,300,000.00		
Total		6,300,000.00				6,300,000.00	6,300,000.00		

Capital Projects Funds

Fund	FY 20-21				Committed Funds to Projects & Other	Projected End/Beq Fund		Projected Restricted Balance	Estimated Unrestricted
	Beginning Fund Balance	Projected Revenues	Projected Expenses	Projected Revenues		Balance	Balance		
500 - General Capital Projects	308,862.81	38,454,113.19	38,762,976.00	2,242,304.39		134,256,948.00	134,256,948.00		
710 - Wastewater Capital Projects	134,256,948.00	20,329,177.07	20,329,177.07	2,242,304.39		2,242,304.39	2,242,304.39		
760 - Transit Capital Projects	2,242,304.39	1,321,894.00	1,321,894.00						
Total	136,808,115.20	60,105,184.26	60,414,047.07			136,499,252.39	136,499,252.39		

Capital Improvement Funding

Fund	FY 20-21			FY 20-21			Estimated	
	Beginning Fund Balance	Projected Revenues	Projected Expenses	Projected End/Bei Fund Balance	Projected Restricted Balance	Unrestricted/Unallocated Balance	Unrestricted	Unallocated
201 - SB1	551,819.94	1,060,685.38	1,501,468.52	111,036.80	111,036.80	-	-	-
202 - Measure A	1,348,379.01	1,010,100.00	2,210,589.78	147,889.23	147,889.23	-	-	-
205 - Motor Vehicle Subvention (AB2766)	474,840.40	38,164.17	86,996.05	426,008.52	426,008.52	-	-	-
210 - PEG	21,481.25	21,205.61	24,800.00	17,886.86	17,886.86	-	-	-
215 - CDBG	-	425,038.00	425,038.00	-	-	-	-	-
265 - CHD (Facilities)	-	1,000.00	-	214,021.06	214,021.06	-	-	-
505 - Equipment Replacement	13,336,435.58	203,389.00	6,903,739.16	6,636,085.42	6,636,085.42	-	-	-
510 - CFD	15,945,977.24	2,759,582.16	11,152,631.51	7,552,927.89	7,552,927.89	-	-	-
Total								

Capital Expansion Funding

Fund	FY 20-21			FY 20-21			Estimated	
	Beginning Fund Balance	Projected Revenues	Projected Expenses	Projected End/Bei Fund Balance	Projected Restricted Balance	Unrestricted/Unallocated Balance	Unrestricted	Unallocated
550 - Other Mitigation	11,591.08	46.64	11,637.72	241,367.30	241,367.30	-	-	-
552 - Basic Services Mitigation	906,841.09	114,990.00	780,463.79	490,631.68	490,631.68	-	-	-
554 - General Plan Mitigation	(102,411.18)	176,292.44	73,881.26	1,535,923.43	1,535,923.43	-	-	-
555 - Recreational Facilities Mitigation	990,203.68	400,428.00	900,000.00	1,312,334.85	1,312,334.85	-	-	-
556 - Traffic Signal Mitigation	1,610,687.99	80,243.54	155,008.10	712,859.53	712,859.53	-	-	-
558 - Railroad Crossing Mitigation	2,187,044.64	91,292.70	966,002.49	459,904.85	459,904.85	-	-	-
559 - Police Facilities Mitigation	824,133.92	138,725.61	250,000.00	3,536,343.49	3,536,343.49	-	-	-
560 - Fire Station Mitigation	4,246,940.66	173,122.28	3,960,158.09	(45,671.83)	(45,671.83)	-	-	-
562 - Road and Bridge Mitigation	7,488,166.94	735,509.79	4,687,333.24	(1,009,257.87)	(1,009,257.87)	-	-	-
564 - Recycled Water Mitigation	2,196,269.30	221,153.66	2,463,094.79	(185,604.92)	(185,604.92)	-	-	-
566 - Emergency Preparedness Mitigation	(1,206,257.97)	197,000.10	-	33,267.04	33,267.04	-	-	-
567 - Community Park Mitigation	792,899.52	166,495.56	1,145,000.00	(188,683.16)	(188,683.16)	-	-	-
568 - Regional Park Mitigation	1,933,267.04	-	1,900,000.00	(7,073.68)	(7,073.68)	-	-	-
569 - Neighborhood Parks Mitigation	959,828.43	201,488.42	1,350,000.00	4,204,280.50	4,204,280.50	-	-	-
570 - Pass Thru DIF	(7,073.68)	-	-	11,090,621.20	11,090,621.20	-	-	-
705 - Wastewater Mitigation	2,645,291.72	1,558,988.78	-	11,090,621.20	11,090,621.20	-	-	-
Total Revenues	25,477,423.18	4,255,777.50	18,642,579.48	11,090,621.20	11,090,621.20	-	-	-

Debt Service

Fund	FY 20-21			FY 20-21			Estimated	
	Beginning Fund Balance	Projected Revenues	Projected Expenses	Projected End/Bei Fund Balance	Projected Restricted Balance	Unrestricted/Unallocated Balance	Unrestricted	Unallocated
840 - CFD	(220,886,149.72)	19,387,441.00	19,387,441.00	(213,066,298.72)	(213,066,298.72)	-	-	-
850 - BFA	87,382,384.81	6,293,649.00	6,293,649.00	83,582,384.81	83,582,384.81	-	-	-
855 - BPIA	5,384,639.21	410,400.00	410,400.00	5,094,639.21	5,094,639.21	-	-	-

City of Beaumont
Fund Balances and Projections
For Budget 2020-2021

Operating

Fund	FY 21-22		Projected Ending Fund Balance	Projected Restricted	Estimated Unrestricted
	Budgeted Revenues	Budgeted Expenses			
100 - General Fund	39,372,812.00	38,598,061.00	16,397,071.51	3,203,162.94	16,397,071.51
120 - Self Insurance			3,203,162.94		
110 - Successor Agency			19,411.73	19,411.73	
200 - Gas Tax	1,242,846.00	1,242,846.00	-		-
220 - COPS	153,000.00	62,734.00	432,834.25	432,834.25	
225 - Asset Seizures (State)	4,500.00		302,194.50	302,194.50	
230 - Asset Seizure (Federal)			10,569.44	10,569.44	
240 - Other Special Revenue			175,282.40	175,282.40	
250 - CFD (Admin)	53,400.00	34,100.00	1,432,292.33	1,432,292.33	
255 - CFD (Main)	1,532,960.00	1,532,960.00	534,499.25	534,499.25	
260 - CFD (Public Safety)	4,049,142.00	4,049,142.00	545,140.14	545,140.14	
700 - Wastewater	605,588.00	605,588.00	5,466,525.57	210,115.00	5,466,525.57
750 - Transit	11,781,500.00	11,781,500.00	210,115.00		
860 - Evidence	2,745,964.00	2,535,849.00	1,850.04	1,850.04	
Total	61,541,712.00	60,442,780.00	28,730,949.10	6,867,352.02	21,863,597.08

Internal Service Funds

Fund	FY 21-22		Projected Ending Fund Balance	Projected Restricted	Estimated Unrestricted
	Budgeted Revenues	Budgeted Expenses			
600 - Internal Service Funds	1,239,280.00	2,593,794.00	4,945,486.00	4,945,486.00	
Total	1,239,280.00	2,593,794.00	4,945,486.00	4,945,486.00	

Capital Projects Funds

Fund	FY 21-22		Projected Ending Fund Balance	Projected Restricted	Estimated Unrestricted
	Budgeted Revenues	Budgeted Expenses			
500 - General Capital Projects	3,783,340.00	3,783,340.00	-	-	
710 - Wastewater Capital Projects	5,922,988.00	5,922,988.00	134,256,948.00	134,256,948.00	
760 - Transit Capital Projects	1,584,000.00	1,584,000.00	2,242,304.39	2,242,304.39	
Total	11,290,328.00	11,290,328.00	136,499,252.39	136,499,252.39	

Capital Improvement Funding

	FY 21-22		FY 21-22		FY 21-22	
	Budgeted Revenues	Budgeted Expenses	Projected Ending Fund Balance	Projected Restricted	Unrestricted/Unallocated	Estimated
Fund						
201 - SB1	947,983.00	863,763.00	195,256.80	195,256.80	-	-
202 - Measure A	1,063,000.00	1,060,000.00	150,889.23	150,889.23	-	-
205 - Motor Vehicle Subvention (AB2766)	62,500.00	266,000.00	222,508.52	222,508.52	-	-
210 - PEG	25,920.00	19,500.00	24,306.86	24,306.86	-	-
215 - CD8G	130,000.00	130,000.00	-	-	-	-
265 - CFD (Facilities)	-	-	-	-	-	-
505 - Equipment Replacement	-	-	214,021.06	214,021.06	-	-
510 - CFD	217,685.00	250,000.00	6,603,770.42	6,603,770.42	-	-
Total	2,447,088.00	2,589,263.00	7,410,752.89	7,410,752.89	-	-

Capital Expansion Funding

	FY 21-22		FY 21-22		FY 21-22	
	Budgeted Revenues	Budgeted Expenses	Projected Ending Fund Balance	Projected Restricted (1)	Estimated Unrestricted	
Fund						
550 - Other Mitigation	186,298.00	-	427,665.30	427,665.30	-	-
552 - Basic Services Mitigation	21,950.00	-	21,950.00	21,950.00	-	-
554 - General Plan Mitigation	314,655.00	-	805,286.68	805,286.68	-	-
555 - Recreational Facilities Mitigation	125,178.00	150,000.00	1,511,101.43	1,511,101.43	-	-
556 - Traffic Signal Mitigation	137,492.00	-	1,449,826.85	1,449,826.85	-	-
558 - Railroad Crossing Mitigation	216,980.00	-	929,839.53	929,839.53	-	-
559 - Police Facilities Mitigation	269,799.00	-	729,703.85	729,703.85	-	-
560 - Fire Station Mitigation	1,100,917.00	-	4,637,260.49	4,637,260.49	-	-
562 - Road and Bridge Mitigation	346,822.00	-	301,150.17	301,150.17	-	-
564 - Recycled Water Mitigation	310,093.00	-	(699,164.87)	(699,164.87)	-	-
566 - Emergency Preparedness Mitigation	510,117.00	-	324,512.08	324,512.08	-	-
567 - Community Park Mitigation	10,500.00	-	43,767.04	43,767.04	-	-
568 - Regional Park Mitigation	617,259.00	-	428,575.85	428,575.85	-	-
569 - Neighborhood Parks Mitigation	-	-	(7,073.68)	(7,073.68)	-	-
570 - Pass Thru DIF	-	-	-	-	-	-
705 - Wastewater Mitigation	2,389,659.00	950,583.00	5,643,356.50	5,643,356.50	-	-
Total Revenues	6,557,719.00	1,100,583.00	16,547,757.20	16,547,757.20	-	-

(1) These funds are restricted as they are only available for DIF qualifying projects/ as of 4-07-2021 they have not been allocated to a qualifying project.

	FY 21-22		FY 21-22		FY 21-22	
	Budgeted Revenues	Budgeted Expenses	Projected Ending Fund Balance	Projected Restricted	Estimated Unrestricted	
Fund						
840 - CFD	19,601,527.00	19,601,527.00	(203,403,567.72)	(203,403,567.72)	-	-
850 - BFA	5,806,506.00	5,806,506.00	80,367,384.81	80,367,384.81	-	-
855 - BPIA	1,465,773.00	1,465,773.00	4,279,639.21	4,279,639.21	-	-
Total	21,873,806.00	21,873,806.00	(118,756,543.70)	(118,756,543.70)	-	-

Debt Service

840 - CFD

850 - BFA

855 - BPIA



Staff Report

TO: City Council

FROM: Christina Taylor, Community Development Director

DATE: May 4, 2021

SUBJECT: **Discussion and Direction on Proposed Development Standards Related to Public Storage Facilities, Moving and Storage Establishments, Automobile Parking Facilities (Including Recreational Vehicles), Truck Stops and Terminals and Building and Storage Yards**

Background and Analysis:

On October 15, 2019, the City Council adopted Interim Urgency Ordinance No. 1111 for a Moratorium on public storage facilities, moving and storage establishments, automobile parking facilities, recreational vehicle parking, truck stops and terminals and building storage yards. On November 19, 2019, the City Council adopted Ordinance No. 1114 for an extension of ten (10) months and fifteen (15) days of the temporary moratorium. On October 6, 2020, City Council approved the final one (1) year extension of the ordinance and directed City staff to bring back development standards for these uses.

When requesting enactment of the moratorium, City staff cited the City's Economic Development Strategic Plan (EDSP) goals and also requested the moratorium remain in place until the General Plan Update was complete. The new General Plan took effect January 3, 2021, and the goals in the General Plan work to support the goals of the EDSP.

The EDSP goals include:

1. Develop an economically balanced community;
2. Recruit new business, while retaining and expanding local business, that promote growth of primary jobs and/or sales tax revenue;
3. Develop an online economic development presence to provide business owners and site selectors resources they need;
4. Create a quality of place that establishes Beaumont as a community to build and grow a business, as well as attract and retain talent;

5. Connect with and assist local small business start-ups and entrepreneurs;
6. Ongoing review of development review processes and identify streamlining and efficiency techniques;
7. Work with regional workforce development partners to provide needed resources to the area and begin to develop a retraining program for positions under threat of automation; and
8. Leverage the City's strengths to maximize business opportunities.

The General Plan Economic Development and Business Growth goals are much more comprehensive and are included as an attachment to this report. A few of the relevant goals from the list include:

5.1.1 Support economic growth that provides quality employment opportunities to balance Beaumont's jobs with its housing supply;

5.1.2 Recruit and retain emerging growth industries (industries with significant employment and performance potential) that provide revenues to the City and jobs to the community, including health care, education, and professional services; and

5.2.1 Align economic development efforts with the labor pool to increase the number of jobs filled by Beaumont residents. This policy relies on having a diversity of high-quality job types for residents of different ages, education levels and skill sets to generate a more consistent and sustainable economy.

According to the Self-Storage Association (selfstorage.org), self-storage facilities employ an average of 3.5 persons per facility. The average size of a self-storage facility in the United States is 56,900 square feet and 52% of self-storage facilities are located in suburban areas such as Beaumont. The average employment rate of 3.5 persons per facility is far below what typical commercial or industrial development employs. All of the self-storage or RV storage facilities in the City of Beaumont are on parcels of at least 1 acre up to parcels of approximately 9 acres. In analyzing the information from the Self-Storage Association, goals and policies of the General Plan and the EDSP, looking at the available vacant land within the City boundaries and tracking the number of inquiries the Planning Department receives about establishing storage facilities, City staff has identified that the goals and policies established by City Council may be difficult to achieve if the uses identified in the moratorium are left without further regulation.

City staff has preliminarily analyzed storage regulations for cities in Riverside, San Bernardino and Los Angeles Counties in preparation of regulations for the uses addressed in the moratorium. Cities vary in their approach, but they typically include standards such as regulation of building height, size or floor area ratio, landscaping,

parcel size or type, separation distance, enclosed structures, location (zoning) and approval process.

City	Use	Zone	Permitted, CUP or Not Permitted	Development Standards & Design Guidelines
Rialto	Storage Yards	Industrial Park	P	Setbacks, separation from other uses, landscaping, height, screening, enclosed structure and design guidelines
	Truck Terminal	Industrial Park	CUP	
	Automobile parking lots when contiguous to commercial and industrial uses		CUP	
Eastvale	Mini Storage	Com/Man	CUP/P	Code section just for mini-storage, setbacks, screening, enclosed structure, comprehensive design guidelines
	Storage Yards	Manufacturing	Permitted	
	Trailer & Boat Storage, Vehicle Storage enclosed building	Manufacturing	Permitted	
	Outdoor Trailer & Boat Storage, Vehicle Storage	Manufacturing	CUP	
Corona	RV Storage Indoor or Outdoor	M zones	CUP	Among more restrictive, Uses only allowed in M-zones, setbacks, screening, comprehensive design guidelines
	Outdoor Storage yard	M-2 & M-3	P	
	Storage Facility, Self Storage	M-1	CUP	
	Truck Terminals	M-2, M-3	P	
Banning	RV Storage	I or BP	P	Among least restrictive, no design guidelines, development standards, landscaping and screening
	Building Materials Storage	GC, HSC, BP	P	
	Construction Storage, Indoor and/or Outdoor	I, BP, IMR	P/CUP/CUP	
	Storage, Including Self-storage	I, BP	CUP	
	Truck Yard or Terminal	I, AI, BP	CUP	
Hemet	Mini-Storage	CM, M-1, M-2	CUP	Among more restrictive. Code section just for storage facilities, separation requirements, landscaping and
	Storage & Service Yard Including Vehicle Storage	CM, M-1	CUP	
	RV Storage	M-1	CUP	

				design guidelines, outdoor display subject to special approval
Perris	Equipment Storage	LI, GI	P	More restrictive.
	Mini-Storage	BP, LI, GI	CUP/P/P	Design guidelines, screening and
	Outdoor Storage	LI, GI	CUP	CUP required, development standards, FAR .75 max
	Truck Terminal, yard	LI, GI	CUP/P	
	Vehicle Storage	LI, GI	CUP/P	
Riverside (City)	Commercial Storage/Mini-Warehouse	Commercial Storage Overlay Zone		Among most restrictive. Storage Overlay Zone. No outdoor storage except RV's, Designed to preserve viable commercial land, allows storage on parcels of odd shape, environmentally constrained or as buffer uses
	Outdoor Storage yard	CG, BMP, I	CUP	
	Truck Terminal	I, AI, AIR	Permitted	
Jurupa Valley	Mini-Storage/Self-Storage/Vehicle & Equipment Storage	IP, MM/ MH	P/CUP	Zoning Code section specific to mini-storage. Development standards, screening, fencing, landscape
Temecula	Mini-Storage	BP, Com, LI	P/CUP	Special development standards, 65% max lo coverage, landscaping, design standards
Riverside (County)	Vehicle/RV Storage	IP, MM	Permitted	Development standards, screening, lighting
	Materials storage yard	M-SC,	Permitted	
	Mini-Warehouses	C-1, C-P (CUP Req) I-P, M-SC, M-M & M-H	CUP or Permitted	Code section specific to mini-warehouse, development and operational standards

Los Angeles (County)	Self- Storage Facilities	Commercial/Manufacturing zones	Permitted or CUP	min 1 ac lot, max lot coverage 50%, outdoor storage not visible from any adjacent property or ROW
El Monte	Self-Storage Facilities, Auto storage	C-2, C-3	CUP	Development standards, comprehensive design guidelines
	Outdoor Storage	Commercial or Industrial Zones	Incidental	<25% of lot area, screened, not visible from ROW, incidental to use
Inglewood	Self-Storage, Auto/RV storage,	M-1, M-1 Limited	Special Use Permit	Development standards, special finding, screening, setbacks, landscape
	Contractor Storage	Heavy Commercial		Development standards
Mission Viejo	Self-storage, Indoor	Business Park/Industrial	Special Development Plan	More restrictive. Special use permit required, all storage contained in enclosed structure, development standards, subject to architectural and design review
	Outdoor storage yard, RV Storage	Business Park/Industrial	CUP	
Fullerton	Self-Storage, Auto/RV storage,	Industrial	Permitted	Development standards, landscaping, setbacks
Pasadena	Outdoor Storage/Vehicle Storage	CG, I	CUP	Development standards, commercial façade standards
	Self-Storage	Not Permitted		Not in permitted use table, addressed only in non-conforming use section of code
Lancaster	Self-Storage, Truck Terminals	Industrial zones	Permitted	Development standards, design guidelines

In the City of Beaumont, self-storage facilities are currently permitted only in the manufacturing (M) zone. Truck terminals, auto parking facilities and building/contractor storage yards are either permitted or conditionally permitted in the City's commercial or manufacturing zones. The City of Beaumont's existing development standards regulate building setbacks, floor area ratio, landscaping, parking and structure height. As part of the General Plan update, the City has newly implemented basic design guidelines for commercial areas outside of the downtown area plan. There are no design guidelines for the manufacturing (M) zone.

City staff believes the uses identified in the moratorium are allowed in the appropriate zones and the approval processes are adequate. Also, the newly implemented development standards are mostly adequate to address on-site development concerns. However, in addition to the development standards currently in place. City staff recommends implementing additional standards to address the following:

- Minimum distance between similar uses;
- Maximum lot size for use;
- Allowing self-storage or storage yard uses and vehicle terminals only on irregularly shaped parcels not viable for other type of development;
- Requiring storage yards to be contained entirely within an enclosed structure; and
- Require enhanced screening measures such as solid masonry wall and/or mature landscaping for contractor storage, parking and vehicle storage uses.

Fiscal Impact:

City staff time to conduct preliminary research and prepare this staff report is estimated to be \$1,250.

Recommended Action:

Provide direction to City staff on additional development standards for uses identified in Ordinance 1111.

Attachments:

- A. General Plan Economic Development and Business Growth Goals and Policies
- B. Zoning Map

GOALS + POLICIES

ECONOMIC DEVELOPMENT + BUSINESS GROWTH

Goal 5.1: A dynamic local economy that attracts diverse business and investment.

Policies:

- 5.1.1** Support economic growth that provides quality employment opportunities to balance Beaumont’s jobs with its housing supply.
- 5.1.2** Recruit and retain emerging growth industries (industries with significant employment and performance potential) that provide revenues to the City and jobs to the community, including health care, education, and professional services.
- 5.1.3** Encourage the development of business clusters with a diverse mix of uses to ensure economic vitality and to minimize the impact of industry-specific downturns on the local economy.
- 5.1.4** Encourage growth and expansion of businesses and employment centers near public transit to increase transportation options for employees and limit traffic congestion.
- 5.1.5** Maintain a regulatory environment that is business friendly, easy to navigate, flexible and encourages growth consistent with the General Plan.
- 5.1.6** Support marketing and business recruitment programs that emphasize Beaumont’s unique economic opportunities, including transportation access, demographics, and environment.
- 5.1.7** Support a variety of revitalization and improvement programs focused on placemaking and beautification, such as façade improvements, public gathering places, public art, and community events. (Also see Land Use and Community Design Element)
- 5.1.8** Align City investment, including capital projects, with areas of desired economic growth and business attraction in the existing commercial and industrial areas, Employment District and Urban Villages.
- 5.1.9** Establish a list of available or “shovel-ready” sites in consultation with property owners and provide the list to interested developers and businesses seeking sites in the city.
- 5.1.10** Continually monitor local and regional emerging growth industry trends to enable quick response to economic changes, including and modifying retention and recruitment efforts.

Goal 5.2: A growing economy that provides high-quality educational and expanded workforce opportunities for all residents.

Policies:

- 5.2.1** Align economic development efforts with the labor pool to increase the number of jobs filled by Beaumont residents. This policy relies on having a diversity of high-quality job types for residents of different ages, education levels and skill sets to generate a more consistent and sustainable economy.

- 5.2.2** Institute job training, education, and workforce development programs to prepare Beaumont residents for high-quality jobs.
- 5.2.3** Create incentives and programs to attract young professionals from the region’s institutions of higher learning, and from outside the region, as members of the local workforce or business owners.
- 5.2.4** Create incentives and programs to attract local or outside entrepreneurs that bring innovative new businesses and startups to Beaumont.
- 5.2.5** Work with local universities and colleges to support job training and workforce development programs.
- 5.2.6** Participate in and support regional workforce partnerships and retraining programs.

Goal 5.3: An inclusive community with expansive opportunities for the disadvantaged.

Policies:

- 5.3.1** Partner with the Beaumont Library District to promote educational programs that teach children, teens, and adults with low literacy to improve reading skills, improve English conversational skills, and provide homework support.
- 5.3.2** Support creation of adult education and training programs, including English language classes, vocational training, and financial literacy programs that empower residents to save, budget, build credit, and explore investment opportunities.
- 5.3.3** Promote free or low-cost child and family enrichment programs and afterschool supplemental education programs.
- 5.3.4** Support a high-quality, universal system of early childhood education, especially in low income communities.
- 5.3.5** Support participation in youth training and employment programs as a strategy to improve educational attainment and generate professional aspirations.

Goal 5.4: A community that supports the growth and prosperity of local businesses.

Policies:

- 5.4.1** Explore programs that promote and support local, small and minority-owned businesses, thus contributing to the City’s economic and employment base.
- 5.4.2** Support small businesses located in the city, including “mom and pop” shops that are unique to Beaumont by offering small business education, and incentives (grants or low-interest loans) for façade improvement programs.
- 5.4.3** Encourage investment and focus revitalization efforts in Downtown and along Beaumont Avenue and Second Street corridors to have the most positive impact on existing businesses and to capitalize on the potential of a walkable mixed-use commercial center in the community.
- 5.4.4** Establish a business outreach program that builds relationships with small businesses and local retailers to regularly communicate about topics such as the availability of small business owner training programs.

- 5.4.5** Adopt development regulations that promote flexible workspaces that can be shared among commercial and/or educational tenants to support entrepreneurship, affordability, sharing of resources, appeal to start-ups and/or spin-offs from regional institutions of higher learning, and the modern workforce.

Goal 5.5: A community with vibrant shopping areas.

Policies:

- 5.5.1** Promote Beaumont as a desirable retail location that can satisfy the growing community's needs, as well as needs of the region, and can withstand competition from online retailers.
- 5.5.2** Attract retail establishments to Downtown, Urban Village districts and commercial areas that will capture resident spending, which would otherwise be spent outside of Beaumont.
- 5.5.3** Cluster and leverage different retail environments to establish vibrant shopping areas that provide a range of goods and services and create synergy of experience and convenience for customers. Examples include regional commercial uses in the Second Street corridor, small-scale pedestrian friendly retail and restaurant uses in Downtown, and specialty and lifestyle retail in the Urban Village districts.
- 5.5.4** Attract retail businesses and services that are consistent in character with the unique retail environments in Beaumont; for example, those that utilize smaller shops and/or smaller storefronts along the Downtown segments of Sixth Street.
- 5.5.5** Attract unique restaurants and food and beverage businesses in the Downtown area to distinguish Downtown from the freeway-oriented, quick-service restaurants along the Interstate 10.
- 5.5.6** Support retailers in responding to changing retail conditions, particularly e-commerce growth.
- 5.5.7** Create development regulations that facilitate adaptive reuse of older buildings.

Goal 5.6: A collaborative community that advances economic development goals through partnerships.

Policies:

- 5.6.1** Support and participate in regional economic development efforts, such as the Riverside County Economic Development Agency's programs and events.
- 5.6.2** Build partnerships with business groups, organizations, property owners, and others to develop programs that benefit the broader Beaumont business community.
- 5.6.3** Work with the Chamber of Commerce to develop a "Shop Local" Program.
- 5.6.4** Develop public-private partnerships with high-growth industry partners to support educational and workforce training opportunities, particularly to assist low-income and disadvantaged populations in competing for career opportunities in growth industries.
- 5.6.5** Partner with local and regional agencies and educational institutions (e.g., UC Riverside, CSU San Bernardino, Loma Linda University, Brandman University, Mt. San Jacinto College, Moreno Valley College, College of the Desert, Beaumont Adult

School, etc.) to offer courses or training that prepare students and/or workers for jobs and to promote entrepreneurial efforts that bring new businesses to Beaumont.

VISITATION + TOURISM

Goal 5.7: A unique destination that celebrates Beaumont’s location, history, and community.

Policies:

- 5.7.1** Promote and market Beaumont as a destination by offering recreational opportunities, cultural and historic landmarks and regional shopping and dining attractions.
- 5.7.2** Work with local organizations to develop a variety of special activities and events that attracts visitors to Beaumont, as well as engages residents.
- 5.7.3** Encourage the development of quality lodging, restaurants, and meeting facilities to meet the needs of businesses, residents and their guests and to bring visitors to the community.
- 5.7.4** Support the development of businesses that provide visitor-oriented services.
- 5.7.5** Support the attraction and clustering of complementary outdoor recreation related businesses that offer visitor serving amenities such as bicycle rentals and camping/hiking supply retail establishments.
- 5.7.6** Support the growth of the eco-tourism industry in Jack Rabbit and Potrero Reserve by preserving as open space and recreation areas
- 5.7.7** Allow a variety of lodging opportunities including, campgrounds, luxury yurts, and residential short-term rentals in addition to hotels and motels.
- 5.7.8** Promote the City as a location for filming in Riverside County in cooperation with the Riverside County Film Commission.

FISCAL SUSTAINABILITY

Goal 5.8: A financially stable community.

Policies:

- 5.8.1** Support development that is fiscally sustainable and provides the City with a diverse tax base to sustain municipal services.
- 5.8.2** Promote development and growth that contributes to a balanced budget and the efficient distribution of public services.
- 5.8.3** Require new development to pay its fair share of required improvements, including maintenance costs, to public facilities and services through impact fees and other financial and regulatory mechanisms such as benefit assessment districts (BADs) or community facilities districts (CFDs).
- 5.8.4** Require fiscal impact analysis for development proposals requiring a General Plan amendment or annexation to assess citywide impacts and to identify any burden such project might create for the City.
- 5.8.5** Maintain fees and charges appropriate for offsetting the cost of providing services. Balance the costs of providing services with the needs of the community.

Goal 5.9: A community with sustainable and improved infrastructure.

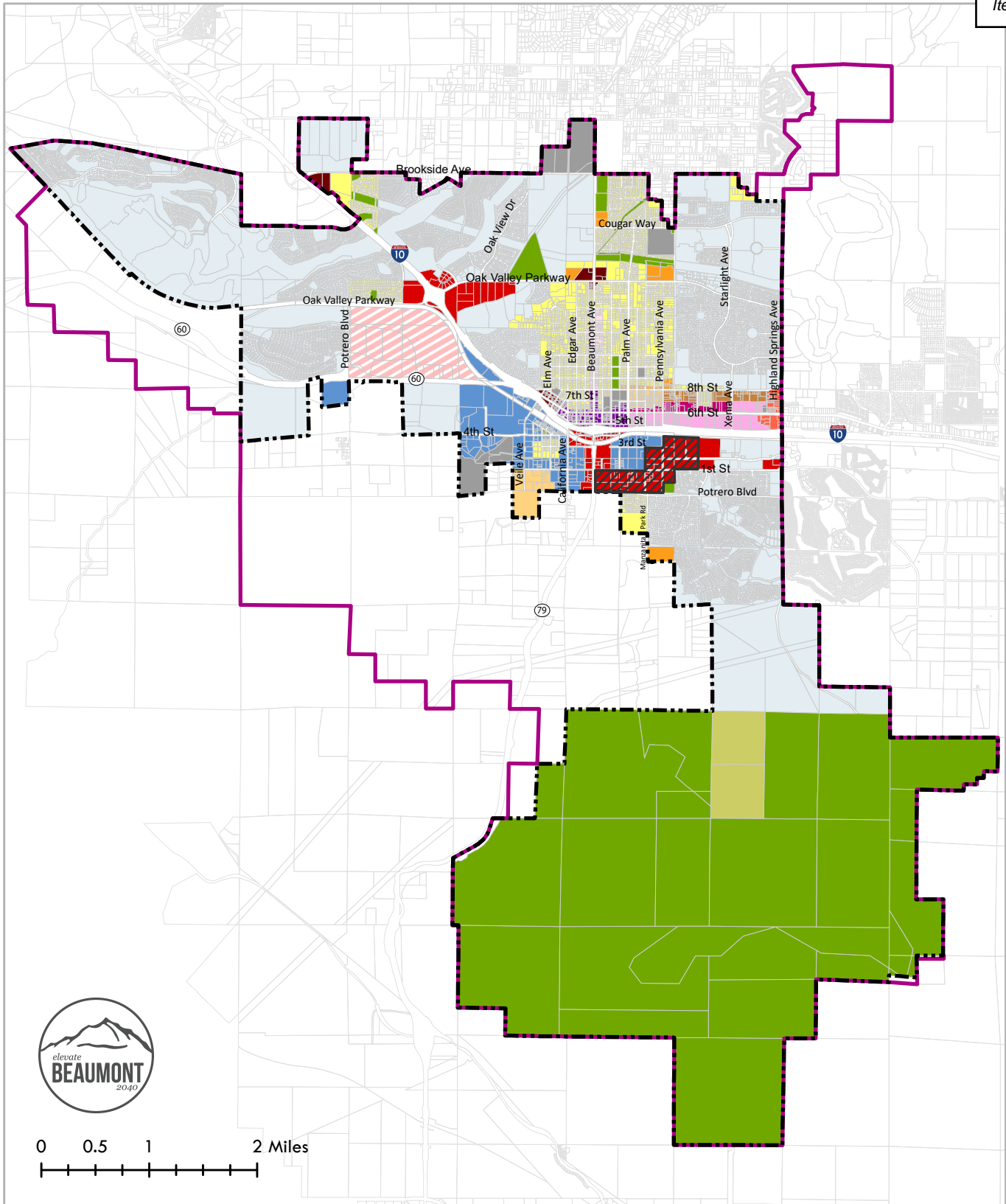
Policies:

- 5.9.1** Promote reliable and innovative methods for financing infrastructure without unduly transferring the cost burden to the residential or business community. Methods include community facilities districts (CFDs), business improvement districts (BIDs), grants, tax credits, development agreements, public-private partnerships, Enhanced Infrastructure Financing Districts (EIFDs), and crowdfunding.
- 5.9.2** Continually evaluate potential opportunities to diversify revenue to attain sustainable funding levels for City services and maintaining City infrastructure.
- 5.9.3** Support local businesses and economic development by improving Beaumont's infrastructure including well-maintained streets, transit improvements, adequate water and sewer services and communications infrastructure.
- 5.9.4** Focus City investment in new and enhanced infrastructure and public realm improvements (e.g., streetscape, lighting, signage, etc.) in the Downtown and areas targeted for future growth, such as mixed-use and employment districts.

Goal 5.10: A fiscally responsible and transparent community.

Policies:

- 5.10.1** Require any non-budgeted, non-emergency expenditure to have an identified corresponding revenue source.
- 5.10.2** Establish a policy for reserves and maintain adequate reserves to insulate the City's budget from economy downturns and unforeseen expenses.
- 5.10.3** Institute and continue to enhance responsible financial management policies, practices and internal controls.
- 5.10.4** Improve and maintain a good credit rating for the City.
- 5.10.5** Aggressively pursue collection of tax monies and ensure accurate and timely collection of tax revenues.
- 5.10.6** Provide decision-makers timely notification of cash insufficiency and actions needed to ensure fiscal sustainability.
- 5.10.7** Correspond regularly with bond rating agencies about the City's financial condition and follow a policy of full disclosure on financial reports and bond prospectus.
- 5.10.8** Continue to utilize the Transparency Portal on the City's website to promote transparent government operations.



CITY OF BEAUMONT ZONING

- City Boundary
- Sphere of Influence
- TOD Overlay
- Specific Plan
- Urban Village
- Residential Rural
- Residential Single Family
- Residential Traditional Neighborhood
- Residential Multiple Family
- Downtown Residential Multifamily
- Sixth Street Mixed Use - Residential
- Sixth Street Mixed Use
- Beaumont Mixed Use
- Downtown Mixed Use
- Local Commercial
- Community Commercial
- Commercial Neighborhood
- Recreation/Conservation
- Manufacturing
- Public Facilities



Staff Report

TO: City Council
FROM: Thaxton Van Belle, Chief Plant Operator
DATE: May 4, 2021
SUBJECT: Ratification of Emergency Repair Costs to Lower Oak Valley Lift Station

Background and Analysis:

During a routine status and health check of the sewer collection system, City staff became aware of an impending pump failure at the Lower Oak Lift Station off Palmer Ave. The pump was pulled for inspection and it was determined that the pump could be saved and rebuilt versus acquiring a new pump at a cost exceeding \$68,000.

This report seeks City Council ratification of the costs for emergency repairs of the Lower Oak Valley Lift Station initiated April 2021. A quote was provided and a purchase order was issued to Xylem Water Solutions USA, Inc., in the amount of \$39,621.28. These repairs will be funded using contingency funds within the Wastewater budget line item 700-4050-8040-0000.

This repair was initiated on an emergency basis due to the lack of full redundancy and the need to rectify the problem in a timely manner.

Fiscal Impact:

The cost of the emergency repair is quoted to be \$39,621.28. A summary of parts, repairs and a listing of costs is included as Attachment A. City staff estimates it cost approximately \$195 to prepare this staff report.

Recommended Action:

Ratify the cost of emergency repairs completed and paid to Xylem Water Solutions USA, Inc., in an amount not to exceed \$40,000.

Attachments:

- A. Invoice for repair from Xylem Water Solutions USA, Inc.



PRODUCT REPAIR / SERVICE ESTIMATE

Estimate #: R2021-LAB-0031

Date: 4/15/2021

Page 1 of 5

Tag #: 2437

JobName: City of Beaumont

Customer Information

Company Name: CITY OF BEAUMONT

Contact: Kevin Lee

Address

Telephone:

550 E 6TH ST

Telephone:

BEAUMONT CA92223

Fax:

Email:

Following is an estimate prepared for you regarding the repair of your Flygt pump.

Product Identification

Product Number: 3300.091-5620

Serial Number: 3300.091-0620017

Model: 3300

Impeller Code: 464

HP: 88

Volts: 0

Phases: 3

Inspection Information

Inspected By: Rick Heaton

Motor Data: Wire Configuration: U1:Red V1:Black W1:White

Megger to ground: R INF B INF W INF

Resistance through cable: RB .5 RW .5 BW .6

Stator Condition: Good

Shaft Condition: Good

Oil Condition: Unusable

Inspection Plugs:

Sensors:

FLS

CLS

KLIX

Bearing

Cable

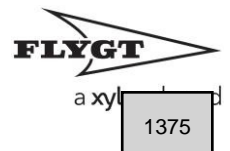
Hydraulic: Impeller/Propeller Condition: Unusable

Cable Condition: Good

Volute Condition: Unusable

Cable Length:

Hydraulic Type: C





PRODUCT REPAIR / SERVICE ESTIMATE

Estimate #: R2021-LAB-0031

Date: 4/15/2021

Page 2 of 5

Tag #: 2437

JobName: City of Beaumont

Installation

Type: P

Control

Discharge Size: 6

MFV

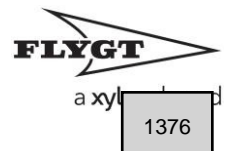
Primary Requirement: Impeller wear

Repair/Service Requirements and remarks

Parts, Labor and Other Charges

Parts:

Qty	PartNo	Description	Sell Price	Total Price
1	426 82 00	TERMINAL BOARD UNIT	\$554.00	\$554.00
1	279 76 01	PIPE,BRASS	\$66.00	\$66.00
1	374 81 03	PLATE,LOCKING 304	\$16.00	\$16.00
2	81 73 42	SCREW,SLOTTED M4 X 12 SS	\$2.80	\$5.60
1	393 03 00	WASHER,STEEL	\$28.00	\$28.00
1	391 32 00	COVER,STEEL	\$50.00	\$50.00
1	504 78 11	CABLE UNIT	\$158.00	\$158.00
1	518 89 02	DETECTOR,LEAKAGE UNIT FLS	\$248.00	\$248.00
1	601 89 24	KIT,REPAIR BASIC 3300.180	\$8,173.00	\$8,173.00
1	319 36 20	VOLUTE,HT 6" UVF FV CI	\$7,714.00	\$7,714.00
1	319 38 00	RING,WEAR STATIONARY STEEL/NBR	\$519.00	\$519.00
1	434 50 00	COVER,SUCTION CI	\$3,908.00	\$3,908.00
1	481 72 13	IMPELLER,C HT 335MM CI 3300	\$4,817.00	\$4,817.00
1	84 59 12	ASSEMBLY,LOCKING 55X85	\$327.00	\$327.00
8	82 01 11	SCREW,ALLEN M16 X 70 SS	\$63.00	\$504.00
2	81 41 55	SCREW,HEX M12 X 30 SS	\$5.70	\$11.40
1	433 56 00	COVER,CI	\$166.00	\$166.00
2	82 27 28	NUT,LOCK HEX M10 SS	\$4.60	\$9.20





PRODUCT REPAIR / SERVICE ESTIMATE

Estimate #: R2021-LAB-0031

Date: 4/15/2021

Page 3 of 5

Tag #: 2437

JobName: City of Beaumont

1	502 53 00	GASKET,NBR	\$90.00	\$90.00
2	80 95 07	STUD,M10 X 47 SS	\$24.00	\$48.00
85	94 21 11	CABLE,SUBCAB AWG 1/3-2-1-GC+ 41.7MM	\$66.00	\$5,610.00
1	84 44 19	GROMMET,CR 43ID 60OD 26L	\$166.00	\$166.00
		Block Price		\$33,188.20
		Total Price		\$33,188.20

Labor and Other Charges:

Qty	PartNo	Description	Sell Price	Total Price
24	14-69 00 00A	LABOR,SVC FLYGT,NO TAX Z1-TP MODELS: 3000,7000,8000	\$153.00	\$3,672.00
1	14-69 00 21D	ENV FEE >50HP TP ENVIRONMENTAL FEE	\$98.00	\$98.00
1	14-69 00 24B	SHOP SUPPLIES-LARGE PUMPS TP MISC SHOP SUPPLIES FOR REPAIR	\$91.00	\$91.00
		Total Price		\$3,861.00

Total Price: \$37,049.20

Product Replacement

Product Number:

Estimated Delivery: Weeks

Cost of New Unit:

Description:

Terms

Please note: If additional repair requirements are identified during service, the total cost of your repair may change. Should this occur, we will contact you for approval before proceeding.

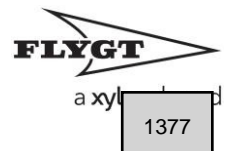
A signed Purchase Order or approval below must be received before any repair work can begin.

If repaired unit is not picked up or delivered within 5 days of completion, the repair will be invoiced.

Taxes: The prices quoted above do not include any state, federal, or local sales tax or use taxes. Any such taxes



Flygt Products
 11161 Harrel Street , Mira Loma CA 91752
 PH: (951) 332-3668
 FX: (951) 332-3679





PRODUCT REPAIR / SERVICE ESTIMATE

Estimate #: R2021-LAB-0031

Date: 4/15/2021

Page 4 of 5

Tag #: 2437

JobName: City of Beaumont

as applicable must be added to the quoted prices.

Terms of delivery: Freight PP/Add Actual

Validity: This Quote is valid for thirty (30) days.

Terms of payment: Net 30 Standard

Warranty: Parts used for this repair carry a 12 month warranty.

This Quote does not include freight charges.

If this product is not repaired or replaced, a fee of \$291.00 will be charged for labor required for the inspection performed.

PLEASE NOTE: IF WE DO NOT HAVE A RESPONSE FROM YOU WITH IN 30 DAYS; WE WILL INVOICE YOU \$351.00 FOR TIME & LABOR HOURS OUR SERVICE DEPARTMENT HAS ALREADY SPENT IN PERFORMING THE TEARDOWN & INSPECTION OF YOUR PRODUCT. YOUR PROMPT ATTENTION & RESPONSE IS GREATLY APPRECIATED. THANK YOU.

Thank you for the opportunity to provide this quotation. Please contact us if there are any questions.

Manny Padilla Jr.

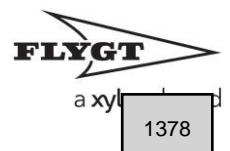
Phone: 562.760.9258

Fax:

Email: manny.padilla@xylem.com



Flygt Products
11161 Harrel Street , Mira Loma CA 91752
PH: (951) 332-3668
FX: (951) 332-3679





PRODUCT REPAIR / SERVICE ESTIMATE

Estimate #: R2021-LAB-0031

Date: 4/15/2021

Page 5 of 5

Tag #: 2437

JobName: City of Beaumont

Customer Approval

Complete and sign this Approval and return to Xylem Water Solutions USA, Inc with, or in place of, your Purchase Order

I authorize Xylem Water Solutions USA, Inc to proceed for the amount shown above.

Repair

Replacement

Customer Name: _____

Date: _____

Customer Signature: _____

PO #: _____

Ship To:

Will Pick Up

Deliver

Ship To

Ship/Delivery Address:

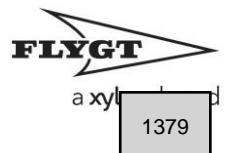
Bill To:

Taxable:

Yes

No

Tax Exemption Certificate must be on file or tax will be applied to the invoice.





Staff Report

TO: Mayor and City Council
FROM: Sean Thuilliez, Chief of Police
DATE: May 4, 2021
SUBJECT: Approval of the Fiscal Year 2021 Local Responsibility Area Wildland Protection Reimbursement Agreement

Background and Analysis:

The City contracts with the California Department of Forestry and Fire Protection (CalFIRE) for fire protection of 1,173 acres of designated wildland area that is within the boundaries of the City. Wildland areas that are within incorporated cities, fire protection districts, and special districts with fire suppression responsibility are referred to as Local Responsibility Areas (LRA). All fire suppression activities and responsibilities within LRA wildland areas are the responsibility of the local agency. The current contract with CalFIRE expires on June 30, 2021.

Wildland fires within the areas incorporated within the City are frequent. Wildland fires are considered one of the highest natural disaster risks that the City faces. The City is in an extremely wind prone area and it is not uncommon for fires to grow beyond the local capability of the resources assigned to protect the City. When a wildland fire grows beyond the ability and capability of local resources, assistance is requested from CalFIRE to provide wildland engine companies, inmate hand crews, bulldozers, and aircraft.

Without an agreement for protection of wildlands within an LRA between the City and the State of California, these resources are then considered assistance-by-hire and the City is liable for the cost from the time of dispatch.

In an effort to reduce the City's liability for the cost of wildland fire suppression in the LRA, the City can enter into a Local Responsibility Area Wildland Fire Protection Agreement (Agreement) with CalFIRE, for protection of wildlands within the City. This Agreement will provide state resources to control a wildland fire at no additional cost to the City. CalFIRE will provide fire protection to the LRA as if they were still the sole agency with fire suppression responsibility. This Agreement will provide unlimited use of

state engine companies, inmate hand crews, bulldozers, and aircraft to supplement the daily level of fire protection provided to the City by the County of Riverside.

Fiscal Impact:

The cost to enter into the Agreement with CalFIRE is \$33.55 per acre plus a 12.01% administrative charge. The total annual cost for the 1,173 acres being covered is \$44,080.58. City staff estimates it cost approximately \$146 to prepare this staff report.

Recommended Action:

Waive the full reading and approve by title only, "A Resolution of the City Council of the City of Beaumont, California, approving an Agreement with the California Department of Forestry and Fire Protection for Services from July 1, 2021 through June 30, 2022, for Fire Protection Services within the Local Responsibility Areas within the City," and

Authorized the Mayor to sign the FY2022 agreement with CalFIRE for fire protection services within the Local Responsibility Areas within the City.

Attachments:

1. LRA Wildland Protection Agreement
2. Resolution for wildland protection services from CalFIRE
3. Wildland Operating Plan
4. WPA Response Plan
5. LRA Map
6. Reimbursement Agreement
7. LRA Agreement Summary

Contract Name: **City of Beaumont**
Contract #: **3CA05357**
Page #:

LOCAL RESPONSIBILITY AREA (LRA) WILDLAND PROTECTION REIMBURSEMENT AGREEMENT

Program Cost Account (PCA #) 39016

THIS IS THE BUDGET PLAN FOR THE LOCAL RESPONSIBILITY AREA (LRA)
WILDLAND FIRE PROTECTION REIMBURSEMENT AGREEMENT BETWEEN THE
STATE OF CALIFORNIA, DEPARTMENT OF FORESTRY & FIRE PROTECTION (CAL FIRE)
AND THE CITY/TOWN OF Beaumont A LOCAL AGENCY
FOR THE 2021/2022 FISCAL YEAR

AGREEMENT COST CALCULATIONS:

Number of Acres 1173

General Fund Reimbursement	\$ 12.49	\$ 14,650.77
Unit Budget	\$ 21.06	\$ 24,703.38
Sub-Total		\$ 39,354.15
Admin Rate	12.01%	\$ 4,726.43
Total Protection Cost		\$ 44,080.58

Comments Section:

RESOLUTION NO. 2021-

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF BEAUMONT, CALIFORNIA, APPROVING AN AGREEMENT WITH THE CALIFORNIA DEPARTMENT OF FORESTRY AND FIRE PROTECTION FOR SERVICES FROM JULY 1, 2021 THROUGH JUNE 30, 2022 FOR FIRE PROTECTION SERVICES WITHIN THE LOCAL RESPONSIBILITY AREAS WITHIN THE CITY.

WHEREAS, City of Beaumont was incorporated in 1912, as a general law City of the State of California; and

WHEREAS, the City has fire protection responsibility for certain wildlands areas within the city designated as Local Responsibility Areas (LRA); and

WHEREAS, the City Council desires to enter into an agreement with the State of California for fire protection services within the LRA.

NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Beaumont that:

Section 1. that the City Council of the City of Beaumont does hereby approve the agreement with the California Department of Forestry and Fire Protection (CAL FIRE) from July 1, 2021 to June 30, 2022;

Section 2. that the City Manager of the City of Beaumont is hereby authorized to sign and execute said agreement on behalf of the City of Beaumont

Section 3. If any section, subsection, subdivision, sentence, clause, phrase, word, or portion of this resolution is, for any reason, held to be invalid by the decision of any court of competent jurisdiction, such decision shall not affect the validity of the remaining portions of this resolution and each section, subsection, subdivision, sentence, clause, phrase, word or portion thereof, irrespective of the fact that any one or more sections, subsections, subdivision, sentences, clauses, phrases, words, or portions thereof be declared invalid.

PASSED, APPROVED AND ADOPTED at a regular meeting of the City Council of the City of Beaumont, California, held on the 4th day of May, 2021, by the following roll call vote:

AYES
NOES
ABSENT
ABSTAIN

Mike Lara, Mayor

ATTEST:
(SEAL)

Nicole Wheelwright, Deputy City Clerk

APPROVED AS TO FORM:

John Pinkney, City Attorney



Wildland Operating Plan
Between
The City of Beaumont
and
CAL FIRE/Riverside Unit.

OPERATING PLAN

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5. Procedures.....	12
6. Administration.....	14
7. Fire Prevention.....	14
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APPENDIX

Preplanned Initial Attack Response – Riverside Ranger Unit.....	E-1
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OPERATING PLAN

1. OVERVIEW

This Operating Plan, hereinafter referred to as PLAN, is between the California Department of Forestry & Fire Protection, Riverside Unit, hereinafter referred to as CAL FIRE and the City of Beaumont, Beaumont Fire Department, hereinafter referred to as CITY. It has been developed to specifically address the Agreement for Protection of Wildlands within a Local Agency, hereinafter referred to as AGREEMENT, between CAL FIRE and CITY for wildland fire protection within the city limits.

2. AUTHORITY

The PLAN is required of both CAL FIRE and CITY as part of the AGREEMENT dated July 1, 2018.

3. PURPOSE

This PLAN will provide the Unit Chief of CAL FIRE and the CITY a means for executing the AGREEMENT and is hereby attached as Exhibit E with appendices E-1 to that AGREEMENT.

4. DEFINITIONS AND RESTRICTIONS

See AGREEMENT for definitions and descriptions of general terms. This PLAN does not allow either agency to operate outside the limitations in the AGREEMENT.

5. PROCEDURES

- A. Fire Reporting/Reports-When CITY receives a report of a wildfire within the area of the AGREEMENT, it shall promptly notify the Riverside Unit Emergency Command Center (ECC). Each agency will process their appropriate reports and make the information available, upon request of the other agency, in no more than 60 days.
- B. Incident Management-The Incident Command System (ICS) will be used to manage wildfires within the area of the AGREEMENT. Unified Command will be implemented with a CAL FIRE representative and a CITY representative.

- C. Fires within the area of the AGREEMENT-Each agency will maintain a preplanned initial attack response (PIAR) for fires within the area of the AGREEMENT. See Appendices E-1. Immediate cooperation between agency dispatch centers will occur to ensure prompt response of appropriate resources into the area of the fire. CAL FIRE resources will be ordered according to the terms of the AGREEMENT through the ECC. Any augmentation of the preplanned response, with CAL FIRE resources, shall be authorized by a CAL FIRE Incident Commander or Agency Representative. Augmentation of the preplanned response may require a post incident audit. The audit will seek to demonstrate that adjacent CAL FIRE Direct Protection Areas (DPA's) were threatened, or that the augmentation was justified on a cost efficiency basis. Local government and private resources will be ordered through the CITY dispatch center (DISPATCH) to ensure proper utilization of the Master Mutual Aid Agreement.
- D. Mutual Aid-All initial attack resources will be considered mutual aid for the purpose of this AGREEMENT.
- E. Initial Attack-Initial attack resources will always be based on the closest resources concept identified in the PIAR. See Appendices E-1.
- F. Move-Up & Cover-Station coverage will be exchanged between both agencies when appropriate. To prevent long-term coverage problems to either agency, the covering agency's engines will be replaced with the covered agency's resources as soon as it is practical to do so.
- G. Fire Information: Unified Command-
 - 1. Both agencies will enter into a unified command structure to manage the incident by establishing a common set of incident objectives and strategies. This will be accomplished without losing or abdicating agency authority, responsibility or accountability. A Unified Ordering Point will be identified and established.
 - 2. Representatives of both agencies will meet as needed to discuss procedures governing and locations of potential Information Centers. Both agencies will strive to maintain a roster of certified Public Information Officers for use during emergencies.
 - 3. The Unified Command will determine which agency will provide the Lead Information Officer. Normally, it will be the agency with the greatest commitment of resources on the incident.

H. Representatives of CAL FIRE and CITY, of the rank of Battalion Chief or higher, may order resources directly from the ECC or DISPATCH when an immediate need arises. These resources may include engines, fire crews and bulldozers in accordance with the AGREEMENT. Resources sent in response to these requests will conform to the closet resources concept

6. ADMINISTRATION

The CAL FIRE Unit Chief and the CITY Fire Chief, or their designees, along with representatives from the CAL FIRE ECC and CITY DISPATCH will meet annually to discuss, review, and update the following items; procedures for reporting fires, procedures to dispatch resources to fires within the area of the AGREEMENT, procedures to dispatch resources to fires along the boundaries of the area of the AGREEMENT, and exchange general or specific information which may affect the other agency.

7. FIRE PREVENTION

A. POLICY

All fire prevention activities conducted on lands within the area of the AGREEMENT will be consistent with both agencies guidelines. CAL FIRE and CITY will be expected to conduct a year-round, aggressive fire prevention program using guidelines within CAL FIRE Handbook 9000 and CITY Fire Prevention Guidelines. This will include, but is not limited to, annual analysis and planning sessions to generate an active fire prevention plan.

1. Public Information Program-This will include all types of fire prevention news releases through the available media. Other methods will include public meetings, fairs, rodeos, parades, services clubs and a regular schedule of school programs for all grades.
2. Protection/Planning Issues-Although the responsibility for enforcing fire safe ordinances pertaining to improvements in wildland areas within the city limits is the responsibility of CITY, a CAL FIRE representative will be available upon request to comment on these issues and assist in the enforcement of related ordinances.
3. Hazard Reduction Inspections
 - a. Home Inspection – CAL FIRE will work directly with CITY to enforce Public Resources Code (PRC) Sections 4291, 4446, 4442, 4123, or the Uniform Fire Code sections when applicable.
 - b. Power line Inspections – CAL FIRE will work directly with CITY inspecting power lines over 750 volts, using PRC 4292 and 4293 as a guide.

B. RESPONSIBILITY

CAL FIRE and CITY personnel will, in the performance of their duties, give full consideration to the prevention of fires and public education. Both agencies will allow staff to establish attainable fire prevention goals.

C. EXISTING AND PROJECTED DEMAND

Fire Prevention and suppression are the primary roles for both agencies. If the demand for services increases in the future, both agencies will develop more intensive programs. Fire protection and prevention will be influenced by the following factors:

1. Increased recreational use.
2. Increased residential and commercial development.
3. Increased utilization of vacation residences.
4. Industrial activity.

D. OBJECTIVES

The primary objective of the fire prevention plan is the reduction of fire suppression expenditures and damages from human-caused fires. The secondary objective is a current and comprehensive public education program for fire safety awareness and code enforcement.

E. RECOMMENDED ACTIONS

Both agencies will actively pursue public awareness programs through the following:

1. Public Education
 - a. School programs, ages K-12
 - b. Roadside sign program
 - c. Timely newspaper articles concerning fire awareness
 - d. Attendance at various local events which lend themselves to fire prevention displays.

2. Code Enforcement

- a. Active PRC 4291 home inspection program in target areas.
- b. Enforcement of the Fire Safe Ordinances as they apply to construction in watershed areas. CAL FIRE will take an advisory role with the CITY Fire Marshal within the areas of the AGREEMENT.

F. FUEL MODIFICATION

Both agencies will continue to encourage individual property owners and property owner associations to establish and maintain a healthy fuel complex through the following:

- 1. Prescribed burning through available programs.
- 2. Forest practice inspections.
- 3. Fuel modification using mechanized systems, fire crews, and local resources.
- 4. Biomass programs to control stems per acre, and remove dead and down materials.

G. BURNING PERMITS

Burning permits will be required in the city limits consistent with those guidelines established in adjacent areas. This will provide consistency in the burn hours and any controls needed for the overall program.

1. Burning Permit Issuance

The CITY has the responsibility of issuing burn permits within the city limits and the area of the AGREEMENT. Both agencies will agree to and establish burn permit guidelines by April 1 of each year. The guidelines will follow those established by CAL FIRE to ensure consistency in the burn programs in both the CITY and areas adjacent to CAL FIRE.

2. Suspension of Permit Procedures

The suspension of burning permits in the area of the AGREEMENT will be directly related to the burning permit suspension procedures outside the area of the AGREEMENT to ensure area-wide consistency. Suspensions will be based on input from CAL FIRE and CITY.

H. MONITORING AND EVALUATION

Periodic monitoring and evaluation of the PLAN will provide the opportunity to make orderly and timely amendments and revisions of the PLAN. Monitoring will determine if the:

1. PLAN is being followed.
2. PLAN objectives are being met.
3. PLAN is achieving desired results.

8. APPROVAL:

This PLAN is approved and authorized as Exhibit B Attachment 3 of the AGREEMENT between CAL FIRE and CITY:

FOR CAL FIRE:

California Department of Forestry
& Fire Protection
Riverside Unit
210 W. San Jacinto Ave
Perris, CA 92570

FOR CITY:

City of Beaumont
550 East 6th Street
Beaumont CA. 92223

Bill Weiser, Unit Chief

Todd Parton, City Manager

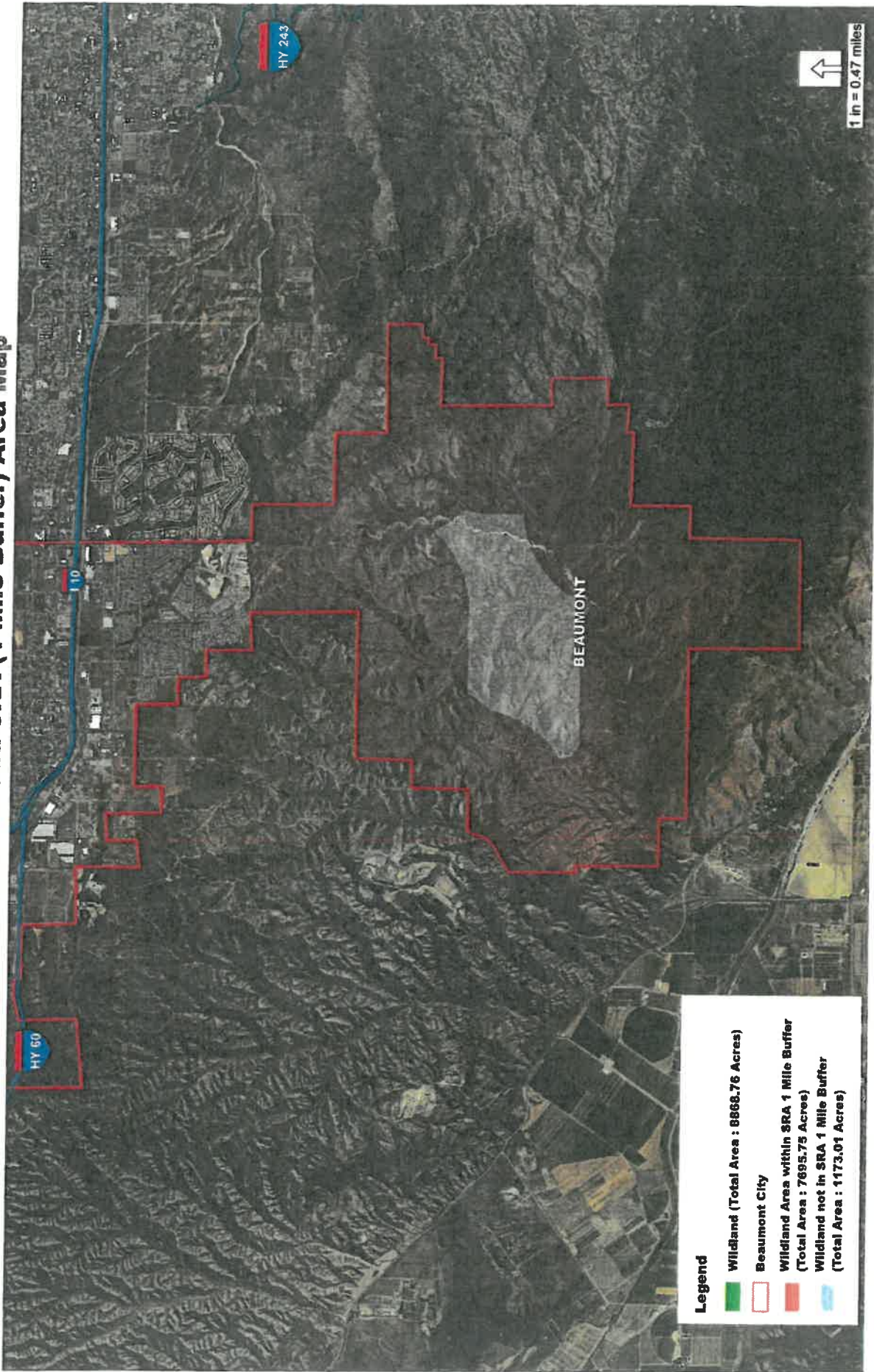
**STANDARD RESPONSE PLAN FOR VEGETATION FIRES
 CALFIRE RRU AND CITY OF BEAUMONT**

E-1

CALFIRE WPA VEGETATION RESPONSE	BC	E	AA	AT	COP	DOZ	CREW	WT
LOW	1	3						
MED	2	5%	1	2	1	2	2	1
HIGH	2	10%	1	2	1	2	4	1
CITY OF BEAUMONT VEGETATION RESPONSE								
LOW	1	3						
MED	1	3						
HIGH	1	3						

% ~ MUST include 3 type 3 engines on a MED and 4 type 3 engines on a HIG

Beaumont Wildland and SRA (1 Mile Buffer) Area Map



Item 11.

Item 14.

566

1394

STATE OF CALIFORNIA
COOPERATIVE FIRE PROGRAMS
LOCAL RESPONSIBILITY AREA WILDLAND PROTECTION
REIMBURSEMENT AGREEMENT
 LG-W REV 11/2020

AGREEMENT NUMBER	3CA05357
REGISTRATION NUMBER:	

1. This Agreement is entered into between the State Agency and the Local Agency named below:

STATE AGENCY'S NAME
 California Department of Forestry and Fire Protection – (CAL FIRE)

LOCAL AGENCY'S NAME
 City of Beaumont

2. The term of this Agreement is: **July 1, 2021** through **June 30, 2022**



3. The maximum amount of this Agreement is: **\$ 44,080.58**
 Forty four thousand eighty dollars and fifty eight cents

4. The parties agree to comply with the terms and conditions of the following exhibits which are by this reference made a part of the Agreement.

Exhibit A – Scope of Work – Includes page 2 (contact page) in count for Exhibit A	2 pages
Exhibit B – Budget Detail and Payment Provisions	2 pages
Exhibit C* – General Terms and Conditions; DGS GTC Version: 04/2017	0 pages
Exhibit D – Special Terms and Conditions (Attached hereto as part of this Agreement)	1 pages
Exhibit E – Additional Provisions	12 pages

Items shown with an Asterisk (), are hereby incorporated by reference and made part of this Agreement as if attached hereto.
 General Terms and Conditions can be viewed at: <http://www.dgs.ca.gov/ols>

IN WITNESS WHEREOF, this Agreement has been executed by the parties hereto.

LOCAL AGENCY		California Department of General Services Use Only
LOCAL AGENCY'S NAME City of Beaumont		
BY (Authorized Signature) 	DATE SIGNED(Do not type)	
PRINTED NAME AND TITLE OF PERSON SIGNING Todd Parton		
ADDRESS 550 East 6 th St. Beaumont, CA 92223		
STATE OF CALIFORNIA		
AGENCY NAME California Department of Forestry and Fire Protection		
BY (Authorized Signature) 	DATE SIGNED(Do not type)	
PRINTED NAME AND TITLE OF PERSON SIGNING Chris Anthony, Assistant Deputy Director, Cooperative Fire Protection, Training & Safety		

Contractor Name: City of Beaumont

Contract No: **3CA05357**

- 2 -

ADDRESS P.O. Box 944246, Sacramento, CA 94244-2460

Contractor Name: City of Beaumont

Contract No: 3CA05357

- 3 -

EXHIBIT A

COOPERATIVE FIRE PROGRAMS

AGREEMENT FOR PROTECTION OF WILDLANDS WITHIN LOCAL AGENCY RESPONSIBILITY AREA

1. The project representatives during the term of this Agreement will be:

CAL FIRE Unit Chief:	Riverside Unit	Local Agency:	City of Beaumont
Name:	Bill Weiser	Name:	Todd Parton
Phone:	951-940-6900	Phone:	951-769-8520
Fax:	951-940-6910	Fax:	951-769-8526

All required correspondence shall be sent through U.S. Postal Service by certified mail and directed to:

CAL FIRE Unit Chief:	Bill Weiser	Local Agency:	City of Beaumont
Section/Unit:	Riverside Unit	Section/Unit:	City Manager
Attention:	John Cortez	Attention:	Todd Parton
Address:	210 W. San Jacinto Av. Perris, CA 92570	Address:	550 East 6 th St. Beaumont, CA 92223
Phone:	951-940-6900	Phone:	951-769-8526
Fax:	951-940-6910	Fax:	951-769-8526

Send an additional copy of all correspondence to:

**CAL FIRE
Cooperative Fire Services
P.O. Box 944246
Sacramento, CA 94244-2460**

2. AUTHORIZATION

This Agreement is entered into this 1st day of July, 2021, by and between the State of California, hereinafter called STATE and City of Beaumont, County of Riverside, State of California, hereinafter called Local Agency through its duly authorized officers. As used herein, Director shall mean Director of the California Department of Forestry and Fire Protection (CAL FIRE). Where the standard clauses for example in Exhibit C, use the word "Contractor" that word shall mean LOCAL AGENCY as LOCAL AGENCY is used in this Agreement.

Section 4142 of the Public Resources Code provides that the Director may enter into cooperative Agreements with local jurisdictions for the purpose of providing wildland fire protection.

3. SCOPE OF WORK

LOCAL AGENCY has the responsibility for protection of life, property, and wildland areas comprising 1173 acres of land as indicated on the map included under Exhibit E and desires to contract with the STATE to provide wildland fire protection to said area.

STATE has the ability to provide wildland fire protection for said area, of the type and degree, which it now provides on adjacent State Responsibility Areas.

Contractor Name: City of Beaumont

Contract No: 3CA05357

- 4 -

4. SERVICES BY STATE

- A. STATE shall provide wildland fire protection for the areas defined in the above section.
- B. For those areas, which are adjacent to State Responsibility Area, STATE will provide wildland fire protection at the same level of service it now provides on adjacent State Responsibility Area.
- C. For those areas (islands), which are not adjacent to State Responsibility Area, the wildland fire protection provided by the STATE will be limited to those resources identified in the preplanned wildland response for the respective area. Any resources beyond those specified in the preplanned wildland response are assistance by hire and the financial responsibility of the LOCAL AGENCY.

5. ADMINISTRATION

- A. LOCAL AGENCY agrees that STATE may dispatch fire protection resources available under this Agreement to other areas of the state when needed at the sole discretion of STATE.
- B. STATE response will be subject to availability of resources.
- C. Incident Management within the contract area shall conform to current Incident Command System criteria for Unified Command.
- D. STATE and LOCAL AGENCY shall, through established dispatch procedures, immediately notify each other of any fire incident within the contract area.

6. MUTUAL AID

LOCAL AGENCY shall provide mutual aid response into the contract area for wildfires. Structural fire protection remains the jurisdictional and financial responsibility of LOCAL AGENCY.

7. ENTIRE AGREEMENT

This Agreement contains the whole Agreement between the parties. It cancels and supersedes any previous Agreement for the same or similar services.

EXHIBIT B

BUDGET DETAIL, INVOICING, PAYMENT AND RECONCILIATION

1. Invoicing and Payment:

- A. LOCAL AGENCY shall pay STATE for providing said protection at the rate of \$33.55 per acre, plus an 12.01% administrative charge for a total of \$44,080.58 upon presentation of an invoice by STATE. The rate per acre and administrative charge will be calculated by STATE prior to January 1, of each year and annually thereafter, for the succeeding fiscal year subject to approval by LOCAL AGENCY. This Agreement shall be amended each fiscal year to reflect new rates.
- B. STATE shall provide thirty (30) day written notice to LOCAL AGENCY of the cost per acre and the administrative charge to be assessed for each subsequent fiscal year during the term of this Agreement; LOCAL AGENCY shall have thirty (30) days to approve said rate; if written approval is not received by STATE within said period, STATE's obligations hereunder shall terminate; LOCAL AGENCY shall be liable for all amounts due up to and including the date of such termination.
- C. To minimize the need for reconciliation payment is expected in full after the LOCAL AGENCY receives the STATE invoice. Payments made by the LOCAL AGENCY will cover the protection rate per acre and the administrative charge for the protection services rendered by STATE and including any other costs as provided herein, giving credit for all payments made by LOCAL AGENCY and claiming the balance due to STATE, if any, or refunding to LOCAL AGENCY the amount of any overpayment.

2. Budget Contingency Clause

- A. If the LOCAL AGENCY's governing authority does not appropriate sufficient funds for the current year or any subsequent years covered under this Agreement, which results in an inability to pay the STATE for the services specified in this Agreement, the LOCAL AGENCY shall promptly notify the STATE and this Agreement will terminate pursuant to the notice periods required herein.
- B. If funding for any fiscal year is reduced or deleted by the LOCAL AGENCY for purposes of this program, the LOCAL AGENCY shall promptly notify the STATE, and the STATE shall have the option to either cancel this Agreement with no liability occurring to the STATE, or offer an agreement amendment to LOCAL AGENCY to reflect the reduced amount, pursuant to the notice terms herein
- C. If the STATE Budget Act does not appropriate sufficient funds to provide the services for the current year or any subsequent years covered under this Agreement, which results in an inability to provide the services specified in this Agreement to the LOCAL AGENCY, the STATE shall promptly notify the LOCAL AGENCY, and this Agreement will terminate pursuant to the notice periods required herein.
- D. If funding for any fiscal year is reduced or deleted by the STATE Budget Act for purposes of this program, the STATE shall promptly notify the LOCAL AGENCY, and the LOCAL AGENCY shall have the option to either cancel this Agreement with no liability occurring to the LOCAL

Contractor Name: City of Beaumont

Contract No: **3CA05357**

- 6 -

AGENCY, or offer an agreement amendment to LOCAL AGENCY to reflect the reduced services, pursuant to the notice terms herein.

- E. Notwithstanding the foregoing provisions in paragraphs A and B above, the LOCAL AGENCY shall remain responsible for payment for all services actually rendered by the STATE under this Agreement regardless of LOCAL AGENCY funding being reduced, deleted or not otherwise appropriated for this program. The LOCAL AGENCY shall promptly notify the STATE in writing of any budgetary changes that would impact this Agreement.
- F. LOCAL AGENCY and STATE agree that this Budget Contingency Clause shall not relieve or excuse either party from its obligation(s) to provide timely notice as may be required elsewhere in this Agreement.

Contractor Name: City of Beaumont

Contract No: 3CA05357

- 7 -

EXHIBIT D**SPECIAL TERMS AND CONDITIONS****1. Cancellation**

Failure of either party to meet any of the terms and conditions of this Agreement, including non-payment of monies due hereunder, shall be cause for the termination of this Agreement; such termination shall become effective upon written receipt of 30 day notice of cancellation.

2. Audit

If the Agreement is over \$10,000, the parties shall, in accordance with Government Code Section 10532, be subject to examination and audit of the State Auditor General for a period of three (3) years after final payment under the Agreement. Examination and audit shall be confined to those matters connected with performance of the Agreement including, but not limited to, cost of administering the Agreement. The Contractor warrants by execution of this Agreement, that no person or selling agency has been employed or retained to solicit or secure this Agreement upon Agreement or understanding.

3. Operating Plan

Prior to April 1 of each year, STATE and LOCAL AGENCY shall establish a joint Operating Plan for the contract area, which shall be attached after Exhibit E. If LOCAL AGENCY received its structural fire protection from another local agency, the local agency providing the structural fire protection must be party to the Operating Plan.

4. Extension of Agreement

Unless there is written notice by LOCAL AGENCY to terminate this Agreement STATE shall extend this Agreement for a single one-year period from the original termination date. The cost of services provided by STATE during the extended period shall be based upon the rates published for the fiscal year in which the extended period falls had a new Agreement been entered into.

5. Modification

This Agreement may be amended at any time by written mutual consent of the parties hereto.

6. Indemnification

Each party, to the extent permitted by law, agrees to indemnify and hold harmless the other party, its officers, agents, and employees from any and all claims and losses accruing or resulting to any person, firm or corporation who may be injured or damaged by the indemnifying party.

Contractor Name: City of Beaumont

Contract No: **3CA05357**

- 8 -

EXHIBIT E

ADDITIONAL PROVISIONS

Attachments

- Budget Plan
- Topographic Map
- Operating Plan
- Annual Report

STATE OF CALIFORNIA
AGREEMENT SUMMARY

STD 215 (Rev. 05/2017)

AGREEMENT NUMBER 3CA05357	AMENDMENT Item 11.
--	------------------------------

CHECK HERE IF ADDITIONAL PAGES ARE ATTACHED

1. CONTRACTOR'S NAME City of Beaumont		2. FEDERAL I.D. NUMBER
3. AGENCY TRANSMITTING AGREEMENT Forestry and Fire Protection	4. DIVISION, BUREAU, OR OTHER UNIT Riverside Unit (RRU)	5. AGENCY BILLING CODE 013312
6a. CONTRACT ANALYST NAME Lev Karshstedt	6b. EMAIL lev.karshstedt@fire.ca.gov	6c. PHONE NUMBER (916) 654-6833
7. HAS YOUR AGENCY CONTRACTED FOR THESE SERVICES BEFORE? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (If Yes, enter prior Contractor Name and Agreement Number) PRIOR CONTRACTOR NAME: City of Beaumont PRIOR AGREEMENT NUMBER: 3CA04805		

8. BRIEF DESCRIPTION OF SERVICES
 Wildland Services.

9. AGREEMENT OUTLINE (Include reason for Agreement: Identify specific problem, administrative requirement, program need or other circumstances making the Agreement necessary; include special or unusual terms and conditions.)
 California Department of Forestry and Fire Protection (CAL FIRE) shall provide fire protection services to Public Resources Code Sections 4142 and/or 4144

The Local Government Wildland/Agreement falls under two exceptions listed in the DGS Administrative Order 06-06-1.
 "The Contract is an interagency or revenue/reimbursement agreement, there are reasonable factors that caused the delay, and it is in the State's best interest to process the contract or amendment."

"The Contract involves another governmental entity, and an Action or inaction of that other governmental entity delayed Timely processing of the contract of amendment by the State."

10. PAYMENT TERMS (More than one may apply)

Monthly Flat Rate Quarterly One-Time Payment Progress Payment
 Itemized Invoice Withhold _____ % Advanced Payment Not To Exceed _____ or _____ %
 Reimbursement / Revenue
 Other (Explain)

11. PROJECTED EXPENDITURES

FUND TITLE	ITEM	FISCAL YEAR	CHAPTER	STATUTE	PROJECTED EXPENDITURES
Reimbursement		21/22			\$44,080.58
OBJECT CODE 3100-39016				AGREEMENT TOTAL	\$44,080.58

STATE OF CALIFORNIA
AGREEMENT SUMMARY

STD 215 (Rev. 05/2017)

AGREEMENT NUMBER 3CA05357	AMENDMENT Item 11.
--	------------------------------

OPTIONAL USE

AMOUNT ENCUMBERED BY THIS DOCUMENT

I certify upon my own personal knowledge that the budgeted funds for the current budget year are available for the period and purpose of the expenditure stated above.

PRIOR AMOUNT ENCUMBERED FOR THIS AGREEMENT

TOTAL AMOUNT ENCUMBERED TO DATE

ACCOUNTING OFFICER'S SIGNATURE	ACCOUNTING OFFICER'S NAME (Print or Type)	DATE SIGNED
--------------------------------	---	-------------

12. AGREEMENT

AGREEMENT	TERM FROM	TERM THROUGH	TOTAL COST OF THIS TRANSACTION	BID, SOLE SOURCE, EXEMPT
Original	7/1/21	6/30/22	\$44,080.58	EXEMPT
Amendment 1				
Amendment 2				
TOTAL			\$44,080.58	

13. BIDDING METHOD USED

- Request for Proposal (RFP) (Attach justification if secondary method is used)
 Use of Master Service Agreement
 Invitation for Bid (IFB)
 Exempt from Bidding (Give authority for exempt status)
 Sole Source Contract (Attach STD. 821)
 Other (Explain) Reimbursement

Note: Proof of advertisement in the State Contracts Register or an approved form STD. 821, Contract Advertising Exemption Request, must be attached

14. SUMMARY OF BIDS (List of bidders, bid amount and small business status) (If an amendment, sole source, or exempt, leave blank)

15. IF AWARD OF AGREEMENT IS TO OTHER THAN THE LOWER BIDDER, EXPLAIN REASON(S) (If an amendment, sole source, or exempt, leave blank)

16. WHAT IS THE BASIS FOR DETERMINING THAT THE PRICE OR RATE IS REASONABLE?
 Not Applicable. This is a reimbursement agreement with a local agency.

17a. JUSTIFICATION FOR CONTRACTING OUT (Check one)

- Contracting out is based on cost savings per Government Code 19130(a). The State Personnel Board has been so notified.
 Contracting out is justified based on Government Code 19130(b). When this box is checked, a completed JUSTIFICATION - CALIFORNIA CODE OF REGULATIONS, TITLE 2, SECTION 547.60 must be attached to this document.

17b. EMPLOYEE BARGAINING UNIT NOTIFICATION

- By checking this box, I hereby certify compliance with Government Code section 19132(b)(1).

AUTHORIZED SIGNATURE	SIGNER'S NAME (Print or Type)	DATE SIGNED
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18. FOR AGREEMENTS IN EXCESS OF \$5,000: Has the letting of the agreement been reported to the Department of Fair Employment and Housing? <input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A	22. REQUIRED RESOLUTIONS ARE ATTACHED <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A 23. IS THIS A SMALL BUSINESS AND/OR A DISABLED VETERAN BUSINESS CERTIFIED BY DGS? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes SB/DVBE Certification Number: _____
19. HAVE CONFLICT OF INTEREST ISSUES BEEN IDENTIFIED AND RESOLVED AS REQUIRED BY THE STATE CONTRACT MANUAL SECTION 7.10? <input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A	
20. FOR CONSULTING AGREEMENTS: Did you review any contractor evaluations on file with the DGS Legal Office? <input type="checkbox"/> None on file <input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A	
21. IS A SIGNED COPY OF THE FOLLOWING ON FILE AT YOUR AGENCY FOR THIS CONTRACTOR? A. Contractor Certification Clauses <input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A B. STD 204 Vendor Data Record <input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A	

24. ARE DISABLED VETERANS BUSINESS ENTERPRISE GOALS REQUIRED? (If an amendment, explain changes if any) No (Explain below) Yes _____ % of Agreement
 Local government agreements are exempt from DVBE requirements per SCM Section 8.12 D.

AGREEMENT SUMMARY

STD 215 (Rev. 05/2017)

AGREEMENT NUMBER

3CA05357

AMENDMENT

Item 11.

25. IS THIS AGREEMENT (WITH AMENDMENTS) FOR A PERIOD OF TIME LONGER THAN THREE YEARS?

No

Yes (If Yes, provide justification below)

This is an ongoing fire protection agreement in which CAL FIRE provides services to and is reimbursed by a local agency. Local agency has control over the approval based on fiscal and board restraints; this includes an extension clause to enable CAL FIRE to provide continuous, uninterrupted protection to local agency.

I certify that all copies of the referenced Agreement will conform to the original agreement sent to the Department of General Services.

SIGNATURE

NAME/TITLE (Print or Type)

DATE SIGNED

AGREEMENT SUMMARY

STD 215 (Rev. 05/2017)

AGREEMENT NUMBER

3CA05357

AMENDMENT

Item 11.

JUSTIFICATION - CALIFORNIA CODE OF REGULATIONS, TITLE 2, SECTION 547.60

In the space provided below, the undersigned authorized state representative documents, with specificity and detailed factual information, the reasons why the contract satisfies one or more of the conditions set forth in Government Code section 19130(b). Please specify the applicable subsection. Attach extra pages if necessary.

This is a reimbursement agreement - 19130(b) does not apply.

The undersigned represents that, based upon his or her personal knowledge, information or belief the above justification correctly reflects the reasons why the contract satisfies Government Code section 19130(b).

SIGNATURE	NAME/TITLE(<i>Print or Type</i>)	DATE SIGNED	
PHONE NUMBER	STREET ADDRESS		
EMAIL	CITY	STATE	ZIP



Staff Report

TO: City Council
FROM: Sean Thuilliez, Chief of Police
DATE: May 4, 2021
SUBJECT: Police Department Vehicle Purchase Adjustment

Background and Analysis:

On March 16, 2021, City Council approved the purchase of a Ford F-350 truck from Ken Grody Ford for use as an animal control vehicle. A purchase order was issued and the process of acquiring the truck was initiated.

Unfortunately, the incorrect vehicle specifications were used to calculate the costs of the vehicle. Ken Grody Ford recognized the error in price (\$32,423.18) and corrected the pricing to reflect the actual cost, which is \$40,307.25.

A comparison of quotes with the corrected price from Ken Grody Ford is provided in the table below.

Vendor	Vehicle	Quote
Southbay Ford	(1) Ford F-350 Truck	\$42,246.75
Raceway Ford	(1) Ford F-350 Truck	\$42,586.14
Ken Grody Ford	(1) Ford F-350 Truck	\$40,307.25

Fiscal Impact:

The difference of what was previously approved by City Council is \$7,884.07. City staff estimates it cost approximately \$98 to prepare this staff report.

Recommended Action:

Authorize the additional cost of \$7,884.07 for the adjusted total of \$40,307.25 for the purchase of a Ford F-350 from Ken Grody Ford.

Attachments:

- A. Raceway Ford Quote
- B. Southbay Ford Quote
- C. Ken Grody Ford Quote

Raceway Ford
5900 Sycamore Canyon Blvd
Riverside, CA 92507
(951) 784-1000



RACEWAY FORD
5900 Sycamore Canyon Blvd
Riverside, CA 92507
P.O. Box (951) 784-1000
www.racewayford.com
Go Further

Date: 02/09/2021 Salesperson: Lewis, Brock
Deal Number: 84126
FEB 9 21 1:37:06 PM
www.racewayford.com

Find Number 84126 Salesperson Lewis, Brock Date 02/09/2021

Buyer Beaumont Police Department Co Buyer _____

Address 660 Orange Avenue City Beaumont State CA Zip 92223

Home (951) 572-3900 Work _____ Cell _____ Email rgalletta@beaumontpd.org

New/Used _____ Stock# _____ Year 0 Make _____ Model _____

Mileage 0 Color _____ VIN# _____

TRADE INFORMATION

Year: 0 Make: _____ Model: _____

VIN#: _____

Mileage: _____ Color: _____

PRICE: \$ 47780.00

Additional Accessories: _____

Payment Disclosure for Purchase

Interest Rate: 0.00

Payment Frequency: Cash Deal

Number of Payments: 0

Days to 1st Pmnt: 0

First Payment Date: 02/09/2021

Payment/Amt Due: 0 42,586.14

Disclosure Summary for Purchase

Price	47,780.00
Less Discount	-8,782.00
Vehicle Price	38,998.00
Trade Value	0.00
Trade Difference	38,998.00
Accessories	0.00
Sub Total	38,998.00
Tax	3,424.14
Documentation Fee	85.00
	0.00
	0.00
Trade Payoff	0.00
TriVIN Fee	29.00
License Fees	0.00
Title/Reg Fees	0.00
Tire Fee	0.00
Smog Fee	50.00
Total	42,586.14
Less Down Payment	0.00
Amount Due	42,586.14

Salesperson cannot accept this offer or obligate seller in any manner whatsoever. THIS OFFER IS NOT BINDING UNTIL ACCEPTED IN WRITING BY OFFICER OR SALES MANAGER OF DEALERSHIP



02-06-2021

BEAUMONT POLICE DEPARTMENT

660 Orange Avenue

Beaumont Ca 92223

ATTENTION: lieutenant, Robert Galletta,

RFQ 2022 FORD F350 EXTENDED CAB PICK UP CHASSIS

Selling Price-----\$39102.00

Sales Tax-----3030.00

Lic./Fees/E-PLATES-----114.75

Total-----\$42,246.75

Terms net 30

Delivery 22 to 24 weeks

THANK YOU,

Truman Williams -Fleet and Municipal Sales

IMS2 CNGP530 VEHICLE ORDER CON

VIRTC1DP

VEHICLE ORDER CONFIRMATION

CNGP530
==>

02/06/21 16:48:26

Dealer:

F-SERIES SD

Page: 1 of 2

Order No: 1234 Priority: E4 Ord FIN: QH227 Order Type: 5B Price Level: 115
Ord PEP: 613A Cust/Flt Name: BEAUMONT PO Number:

X3A	F350 XLT SC S58	\$43460	RETAIL
Z1	164" WHEELBASE		
3	OXFORD WHITE		
S	40/20/40 CLOTH		
613A	MEDIUM EARTH GR		
	PREF EQUIP PKG		
	.XLT TRIM		
	.AMFM/MP3/CLK		
996	.6.2L EFI V8 ENG	NC	
44G	10-SPD AUTOMATC	NC	
X3E	LT275/65BSWAS18	390	
66D	3.73 ELOCKING	(625)	
	PU BOX DELETE		
	JOB #1 BUILD		
	FRT LICENSE BKT	NC	

16T ALL WTHR NO CRP RETAIL \$130
166 CARPET DELETE (50)
425 10900# GVWR PKG
512 50 STATE EMISS NC 295
595 SPARE TIRE/WHL2 130
60C FOG LAMPS 115
JACK LANE DPRT WARN

TOTAL BASE AND OPTIONS 46595
TOTAL 46595
THIS IS NOT AN INVOICE

* MORE ORDER INFO NEXT PAGE *
F8=Next
F2=Return to Order
F3/F12=Veh Ord Menu
F1=Help
F4=Submit F5=Add to Library
S006 - MORE DATA IS AVAILABLE.

2,6

IMS2 CNGP530 VEHICLE ORDER CON

VIRTC1DP  02/06/21 16:48:34

VEHICLE ORDER CONFIRMATION

CNGP530
==>

Dealer:

Order No: 1234 Priority: E4 Ord FIN: QH227 Order Type: 5B Price Level: 115
Ord PEP: 613A Cust/Flt Name: BEAUMONT PO Number:
F-SERIES SD

RETAIL

- 63R RR STAB W/ AUX \$125
- 66S UPFITTER SWITCH 165
- 67D 200/240 AMP ALT NC 140
- 76C EX BACKUP ALARM 210
- 86M DUAL BATTERY 415
- 872 RR CAM & PREP K
- SP FLT ACCT CR
- FUEL CHARGE
- PRICED DORA NC
- DEST AND DELIV 1695

TOTAL BASE AND OPTIONS 46595
TOTAL 46595

THIS IS NOT AN INVOICE

F1=Help F2=Return to Order F7=Prev
 F4=Submit F5=Add to Library F3/F12=Veh Ord Menu
 S099 -

KEN GROSSY FORD

1FT8X3B69 MED80420 NB

D/C CERT CERT TRD RAMP BUMP CAMP BOOK EXPL

C

ME D80420

2108

9-NORMAL, NB, 1.02429, MC191

KTP-002429 CA

California Air Resources Board

Environmental Performance

Flexible-Fuel Vehicle Classline Ethanol (E85)

These ratings are not directly comparable to the U.S. EPA/DOT light-duty vehicle label ratings. For information on how to compare, please see www.arb.ca.gov/ep_label.

Protect the environment. Choose vehicles with higher ratings:



Using alternative fuels may change scores.

Vehicle emissions are a primary contributor to climate change and smog. Ratings are determined by the California Air Resources Board based on this vehicle's measured emissions.



The FordPass Connect™ modern is active and sending vehicle data (e.g., diagnostics) to Ford. See in-vehicle settings for connectivity options. FordPass Connect™ service and FordPass™ App required for certain remote features (see App Terms for more information). Connected service and related feature functionality is subject to availability and network availability. FordPass™ App requires a compatible smartphone with an internet connection. Features and availability may vary by model and region. FordPass™ App is not available in all countries. Message and data rates may apply. See your local Ford website for our privacy policy.

FORD PROTECT

Insist on Ford Protect! The only extended service plan fully backed by Ford and honored at every Ford dealership in the U.S., Canada and Mexico. See your Ford Dealer or visit www.fordowner.com.



EXTERIOR
OXFORD WHITE

INTERIOR
MEDIUM EARTH GRAY VINYL

- FUNCTIONAL**
- 4-WHEEL ANTILOCK BRAKE SYS
 - 4-DISK CONNECT 4GMIFI
 - HILL START ASSIST
 - JEWEL EFFECT HEADLAMPS
 - MANUAL LOCKING HUBS
 - MONO BEAM COIL SPRING FRNT
 - MYKEY®
 - REAR VIEW CAMERA
 - NA W/BOX DLT
- SAFETY/SECURITY**
- ADVANCE TRAC® WITH RSC®
 - AIRBAGS - SAFETY CANOPY®
 - BELT PRECLIP™ AIR BAGS
 - SECURILOCK™ ANTI-THIEF SYS
 - SOS POST-CRASH ALERT SYS™
- WARRANTY**
- 3YR/36,000 BUMPER / BUMPER
 - 5YR/60,000 POWERTRAIN
 - 5YR/100,000 ROADSIDE ASSIST
 - 5YR/100,000 DIESEL ENGINE

PRICE INFORMATION

BASE PRICE \$41,060.00

TOTAL OPTIONS/OTHER 4,070.00

TOTAL VEHICLE & OPTIONS/OTHER DESTINATION & DELIVERY 45,150.00

1,065.00



INCLUDED ON THIS VEHICLE

OPTIONAL EQUIPMENT/OTHER

- 10-SPEED POWERTRAIN PKG-6T0A
- 1727E/2M/186 GSW ALL TERRAIN
- 3.7L ELECTRONIC LOCKING AXLE
- POWER EQUIPMENT GROUP
- FRONT LICENSE PLATE BRACKET
- XL DECOR PACKAGE
- FX4 OFF-ROAD PACKAGE
- SKID PLATES
- PLATFORM RUNNING BOARDS
- 11500# GVWR PACKAGE
- 50 STATE EMISSIONS
- 110V/400W OUTLET
- SPARE TIRE AND WHEEL
- TRAILER BRAKE CONTROLLER
- TELESCOPIC TT MIRR-PWR/RTD
- CENTER HIGH MOUNT STOP LAMP
- FOG LAMPS
- JACK
- STEEL ROAD WHEELS-16"
- UPFITTER SWITCHES
- POWER WINDOWS (R/T) ALTR
- FREEDOM ASSIST W/AEB
- XL VALUE PACKAGE
- CRUISE CONTROL

TOTAL MSRP \$46,845.00

Whether you decide to lease or finance your vehicle, you'll find the choices that are right for you. See your dealer for details or visit www.ford.com/finance.

FORD CREDIT

MC191 N RB 2X 115 002429 03 19 21

STANDARD EQUIPMENT INCLUDED AT NO EXTRA CHARGE

EXTERIOR

- ROOF RAILGATE MOLDS
- DIRT HANDLER BELT
- HEADLAMPS - AUTOLAMP
- (ON/OFF)
- LOCKING REMOVABLE TAILGATE
- PICKUP BOX, TIE DOWN HOOKS
- NA W/BOX DLT
- SPARE TIRE AND WHEEL LOCK
- NA W/BOX DLT
- TOW HOOKS
- TRAILER SWAY CONTROL
- WIPERS - INTERMITTENT

INTERIOR

- 8-WAY FOLD-UP REAR BENCH
- AIR COND, MANUAL FRONT
- DRIVER SEAT, MANUAL LUMBAR
- OUTSIDE TEMP DISPLAY
- PARTICULATE AIR FILTER
- STEERING - TILT/TELESCOPIC
- WHEEL WITH AUDIO
- VINYL SUN VISORS

EXTERIOR

- 8-WAY FOLD-UP REAR BENCH
- AIR COND, MANUAL FRONT
- DRIVER SEAT, MANUAL LUMBAR
- OUTSIDE TEMP DISPLAY
- PARTICULATE AIR FILTER
- STEERING - TILT/TELESCOPIC
- WHEEL WITH AUDIO
- VINYL SUN VISORS

INTERIOR

- 4-WHEEL ANTILOCK BRAKE SYS
- 4-DISK CONNECT 4GMIFI
- HILL START ASSIST
- JEWEL EFFECT HEADLAMPS
- MANUAL LOCKING HUBS
- MONO BEAM COIL SPRING FRNT
- MYKEY®
- REAR VIEW CAMERA
- NA W/BOX DLT

PRICE INFORMATION

BASE PRICE \$41,060.00

TOTAL OPTIONS/OTHER 4,070.00

TOTAL VEHICLE & OPTIONS/OTHER DESTINATION & DELIVERY 45,150.00

1,065.00

INCLUDED ON THIS VEHICLE

OPTIONAL EQUIPMENT/OTHER

- 10-SPEED POWERTRAIN PKG-6T0A
- 1727E/2M/186 GSW ALL TERRAIN
- 3.7L ELECTRONIC LOCKING AXLE
- POWER EQUIPMENT GROUP
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- 50 STATE EMISSIONS
- 110V/400W OUTLET
- SPARE TIRE AND WHEEL
- TRAILER BRAKE CONTROLLER
- TELESCOPIC TT MIRR-PWR/RTD
- CENTER HIGH MOUNT STOP LAMP
- FOG LAMPS
- JACK
- STEEL ROAD WHEELS-16"
- UPFITTER SWITCHES
- POWER WINDOWS (R/T) ALTR
- FREEDOM ASSIST W/AEB
- XL VALUE PACKAGE
- CRUISE CONTROL

CONVOY

ITEM #: 71-D498 OT 2

This label is affixed pursuant to the Federal Automobile Information Disclosure Act, Gasoline, License, and Title Fees, State and Local taxes are not included. Dealer installed options or accessories are not included unless listed above.

Item 12.

04/21/2021

Business Office
CITY OF BEAUMONT
 550 E. 6TH STREET BEAUMONT, CA, 92223
 Home: 951-769-8520 Cell:
 Email:
 County:



Stock # **24904**
N 21 FORD SUPER DUTY F-35
1FT8X3B69MED80420

Deal Information Deal Status:

Retail Lease

List	46845.00	Rebate		AMOS/Opt		Sale Date	04/27/21
Price	37700.00	APR		Insurance		Deliver	04/21/21
Down		Term	1	Accessories		First Payment	04/27/21
Trade		Days		Serv Cont		Lender	
Payoff	2921.75	Tax	2921.75	Fee\$/Lender	8.75	Cash Sale--Fleet	
Function		Tax Group	Riverside	Payment/Options	40530.50 M	Discount	9145.00

Other / Salespeople

Odometer	6	Permit#/Exp		Salesperson1	289	F&I Manager	PE
Trade Desc				Salesperson2	513	Sales Manager	KK
PDI							
CG3672FI0WP4575					289		40630X50A008MSRP46845

Save Exit Cancel



Staff Report

TO: City Council

FROM: Doug Story, Assistant Director of Community Services

DATE May 4, 2021

SUBJECT: Approve the Purchase of Two (2) F150 Super Crew Trucks and Three (3) F250 Trucks in the Amount of \$140,100 from Fairview Ford

Background and Analysis:

On March 16, 2021, City Council approved operating budget adjustments to the FY2021 General Fund that included the purchase of five replacement vehicles for the Grounds and Building Maintenance Department fleet.

The department requests City Council approval for the purchase of two F150 super crew trucks and three F250 crew trucks. In accordance with the City's purchasing policy, City staff requested quotes from multiple Ford dealerships of which only two dealerships submitted quotes. These quotes were reviewed by City staff and it was determined that Fairview Ford was the lowest bidder as summarized in the table below.

Vendor	Vehicle	Quote
Fairview Ford	2 Ford F150 trucks and 3 Ford F250 trucks	\$140,097.20
Sunrise Ford	2 Ford F150 trucks and 3 Ford F250 trucks	\$147,538.05

Fiscal Impact:

The total cost of purchasing 5 replacement trucks is \$140,097.20 and will be funded from account 100-6050-8060-0000. City staff estimates that it cost approximately \$975 to prepare this report.

Recommended Action:

Approve the purchase of two F150 super crew trucks and three F250 regular crew trucks in the amount of \$140,097.20 from Fairview Ford.

Attachments:

- A. Quotes received

Item 13.

F.150 S/C
SHORT BED



FAIRVIEW FORD SALES, INC
FLEET AND TRUCK CENTER
740 WEST 2ND STREET
P O BOX 1390
SAN BERNARDINO CA 92402
PHONE #:(909) 386-0281 FAX #:(909) 386-0292

VEHICLE ORDER CONFIRMATION

03/26/21 17:08:20

Dealer: F71156

Page: 1 of 2

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2021 F-150

Order No: 0000 Priority: F4 Ord FIN: QH227 Order Type: 5B Price Level: 130

Ord PEP: 101A Cust/Flt Name: BEAUMONT

PO Number:

	RETAIL		RETAIL
X1C	F150 4X2 S/C	\$33025	6325# GVWR
	145" WHEELBASE (6 1/2' BED)		CA BOARD FEES NC
YZ	OXFORD WHITE		FRT LICENSE BKT NC
C	CLOTH 40/20/40	425	50 STATE EMISS NC
S	MED DARK SLATE	53B	CLASS IV HITCH 205
101A	EQUIP GRP	2280	794 PRICE CONCESSN
	.XL SERIES		
	.POWER EQUIP GRP		TOTAL BASE AND OPTIONS 38400
	.CRUISE CONTROL		XL HIGH DISCOUNT (750)
	.REV SENSING SYS		TOTAL 37650
	.17"SILVER STEEL		
99P	2.7L V6 ECOBST	1195	
44G	ELEC 10-SPDAUTO		
	.245/70R-17 A/S		
X19	3.55 REG AXLE	NC	

VEHICLE ORDER CONFIRMATION

03/26/21 17:08:28

Dealer: F71156

Page: 2 of 2

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2021 F-150

Order No: 0000 Priority: F4 Ord FIN: QH227 Order Type: 5B Price Level: 130

Ord PEP: 101A Cust/Flt Name: BEAUMONT

PO Number:

	RETAIL		RETAIL
	REMARKS TRAILER		
	SP FLT ACCT CR		
	FUEL CHARGE		
	PRICED DORA	NC	
	DEST AND DELIV	1695	
	TOTAL BASE AND OPTIONS	38400	
	XL HIGH DISCOUNT	(750)	
	TOTAL	37650	

SALES PRICE \$ 25,996⁰⁰

7.75% SALES TAX @ \$ 2014⁶⁹

CAL. TIRE FEE @ \$ 825

DMV 8 EXEMPT

TOTAL @ \$ 28,019⁴⁴

EACH 1417

F.250 REG. Item 13.

LONG BED



FAIRVIEW FORD SALES, INC
FLEET AND TRUCK CENTER
740 WEST 2ND STREET
P O BOX 1390

SAN BERNARDINO CA 92402

PHONE #:(909) 386-0281 FAX #:(909) 386-0292

VEHICLE ORDER CONFIRMATION

03/26/21 17:19:23

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Dealer: F71156

2022 F-SERIES SD

Page: 1 of 2

Order No: 0000 Priority: G4 Ord FIN: QH227 Order Type: 5B Price Level: 215
Ord PEP: 600A Cust/Flt Name: BEAUMONT PO Number:

RETAIL		RETAIL	
F2A	F250 4X2 SD R/C \$34700	TRAILER TOW PKG	
	142" WHEELBASE (8 BED)	FRT LICENSE BKT	NC
Z1	OXFORD WHITE	10000# GVWR PKG	
A	VNYL 40/20/40	50 STATE EMISS	NC
S	MEDIUM EARTH GR	512 SPARE TIRE/WHL2	NC
600A	PREF EQUIP PKG	525 CRUISE CONTROL	235
	.XL TRIM	TELE TT MIR-PWR	
572	.DUAL ZONE EATC NC		
	.AMFM/MP3/CLK	TOTAL BASE AND OPTIONS	37545
996	.6.2L EFI V8 ENG NC	TOTAL	37545
44S	6-SPD AUTOMATIC NC		
TD8	.LT245 BSW AS 17		
X37	3.73 REG AXLE NC		
90L	PWR EQUIP GROUP 915		
	JOB #1 BUILD		

VEHICLE ORDER CONFIRMATION

03/26/21 17:19:31

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Dealer: F71156

2022 F-SERIES SD

Page: 2 of 2

Order No: 0000 Priority: G4 Ord FIN: QH227 Order Type: 5B Price Level: 215
Ord PEP: 600A Cust/Flt Name: BEAUMONT PO Number:

RETAIL		RETAIL	
794	JACK		
	PRICE CONCESSN		
	REMARKS TRAILER		
	SP FLT ACCT CR		
	FUEL CHARGE		
	PRICED DORA NC		
	DEST AND DELIV 1695		
TOTAL	BASE AND OPTIONS	37545	
TOTAL	TOTAL	37545	

SALES PRICE @ \$25,996⁰⁰

7.75% SALES TAX @ \$2014⁶⁹

CAL. TIRE FEE @ \$875

DMV @ EXEMPT

TOTAL @ \$28,019⁴⁴

EACH 1418



Disclaimer: This window sticker is only representative of the information contained on an actual window sticker, and may or may not match the actual window sticker on the vehicle itself. Please see your retailer for further information.

Vehicle Description

F-150

2021 F150 4X2 S/C
3.3L V6 PFDI
ELEC TEN-SPEED AUTO W/TOW MODE

VIN 1FTEX1CB9MK D82611

Exterior
OXFORD WHITE

Interior
MEDIUM DARK SLATECLOTH 40/20/40
FRONT SEAT

Standard Equipment INCLUDED AT NO EXTRA CHARGE

EXTERIOR

- . EASY FUEL® CAPLESS FILLER
- . HALOGEN HEADLAMPS
- . HEADLAMPS - AUTOLAMP
- . LOCKING REMOVABLE TAILGATE
- . REAR, 170-DEGREE DOOR
- . WIPERS- INTERMITTENT

INTERIOR

- . 60/40 FOLD-UP REAR BENCH
- . DUAL SUNVISORS
- . COMPASS, TRIP COMPUTER
- . TILT/TELESCOPE STR COLUMN

FUNCTIONAL

- . AUTO START STOP TECH
- . DYNAMIC HITCH ASSIST
- . FORDPASS CONNECT 4G
- . GAS-CHARGED SHOCKS
- . OUTBOARD MNTD REAR SHOCKS
- . PWR RACK AND PINION STEER
- . SELECTSHIFT®

SAFETY/SECURITY

- . AIRBAGS - FRONT SEAT
- . AIRBAGS - SAFETY CANOPY®
- . SECURILOCK® ANTI-THEFT SYS
- . TIRE PRESSURE MONIT SYS

WARRANTY

- . 5YR/100,000 DIESEL ENGINE
- . 5YR/60,000 ROADSIDE ASSIST

- . DAYTIME RUNNING LAMPS
- . FULLY BOXED STEEL FRAME
- . HEADLAMPS - AUTO HIGH BEAM (ON/OFF)
- . PICKUP BOX TIE DOWN HOOKS
- . TRAILER SWAY CONTROL
- . 4" PRODUCTIVITY SCREEN SEAT
- . MESSAGE CTR: OUTSIDE TEMP,
- . POWERPOINTS - 12V
- . AUTO HOLD
- . CURVE CONTROL
- . FAIL-SAFE COOLING SYSTEM
- . HOTSPOT TELEMATICS MODEM
- . HILL START ASSIST
- . PRE-COLLISION ASSIST W/AEB
- . REAR VIEW CAMERA
- . ADVANCETRAC® WITH RSC®
- . MOUNTED SIDE IMPACT
- . CTR HIGH MOUNT STOP LAMP
- . SOS POST-CRASH ALERT SYS
- . 3YR/36,000 BUMPER / BUMPER
- . 5YR/60,000 POWERTRAIN
- . 8YR/100,000 HYBRID BATTERY

Price Information

STANDARD VEHICLE PRICE MSRP \$33,025

Included on this Vehicle

EQUIPMENT GROUP 101A 2,280
 XL SERIES
 XL POWER EQUIPMENT GROUP
 CRUISE CONTROL
 REVERSE SENSING SYSTEM

Optional Equipment

2021 MODEL YEAR
 OXFORD WHITE
 DARK SLATE CLOTH 40/20/40
 .17" SILVER STEEL WHEELS
 3.3L V6 PFDI
 ELEC TEN-SPEED AUTO W/TOW MODE
 .245/70R 17 BSW ALL-SEASON
 3.55 RATIO REGULAR AXLE
 6250# GVWR PACKAGE
 FRONT LICENSE PLATE BRACKET
 50 STATE EMISSIONS
 CLASS IV TRAILER HITCH 205
 FLEX FUEL VEHICLE

TOTAL VEHICLE & OPTIONS 35,510
 DESTINATION & DELIVERY 1,695

TOTAL BEFORE DISCOUNTS 37,205
 XL HIGH DISCOUNT -750
TOTAL SAVINGS -750

TOTAL MSRP \$36,455

Disclaimer: Option pricing will be blank for any item that is priced as 0 or "No Charge".

27,045
 Doc Fee 85
 TAX 2102.58
 DMV-Wire 30 -
 Tire Fee 875
 29,276.33

Vehicle Engine Information

Actual mileage will vary with options, driving conditions, driving habits and vehicle's condition. Results reported to EPA indicate that the majority of vehicles with these estimates will achieve between _ and _ mpg in the city and between _ and _ mpg on the highway. For Comparison Shopping all vehicles classified as have been issued mileage ratings from _ to _ mpg city and _ to _ mpg highway.



CITY MPG 20
 HIGHWAY MPG 24

Estimated Annual Fuel Cost: \$



Ford Extended Service Plan is the ONLY service contract backed by Ford and honored by the Ford and Lincoln dealers. Ask your dealer for prices and additional details or see our website at www.Ford-ESP.com.



Disclaimer: This window sticker is only representative of the information contained on an actual window sticker, and may or may not match the actual window sticker on the vehicle itself. Please see your retailer for further information.

Vehicle Description

F-SERIES
SD

2021 F250 4X2 SD R/C
6.2L EFI V-8 ENGINE
6-SPEED AUTOMATIC TRANS G

VIN 1FTBF2A61ME C55111

Exterior

OXFORD WHITE

Interior

MEDIUM EARTH GRAY VINYL 40/20/40 SEATS

Standard Equipment INCLUDED AT NO EXTRA CHARGE

EXTERIOR

- . DOOR HANDLES - BLACK (ON/OFF)
- . PICKUP BOX, TIE DOWN HOOKS
- . SPARE TIRE AND WHEEL LOCK
- . TOW HOOKS
- . WIPERS- INTERMITTENT

INTERIOR

- . DRIVER SEAT-MANUAL LUMBAR
- . PARTICULATE AIR FILTER
- . WHEEL WITH AUDIO

FUNCTIONAL

- . FORDPASS CONNECT 4GWI-FI
- . HILL START ASSIST
- . MYKEY®
- . NA W/BOX DLT
- . FRT SUSPENSION W/STAB BAR

SAFETY/SECURITY

- . AIRBAGS - SAFETY CANOPY®
- . DRIVER/PASSENGER AIR BAGS
- . SOS POST-CRASH ALERT SYS

WARRANTY

- . 5YR/100,000 DIESEL ENGINE
- . 5YR/60,000 ROADSIDE ASSIST

- . BOX RAIL/TAILGATE MOLDINGS
- . HEADLAMPS - AUTOLAMP
- . LOCKING REMOVABLE TAILGATE
- . -NA W/BOX DLT
- . -NA W/BOX DLT
- . TRAILER SWAY CONTROL
- . AIR COND, MANUAL FRONT
- . OUTSIDE TEMP DISPLAY
- . STEERING - TILT/TELESCOPIC
- . VINYL SUN VISORS
- . 4-WHEEL ANTILOCK BRAKE SYS
- . HOTSPOT TELEMATICS MODEM
- . JEWEL EFFECT HEADLAMPS
- . REAR VIEW CAMERA
- . TWIN-T-BEAM INDEPENDENT
- . ADVANCETRAC® WITH RSC®
- . BELT-MINDER CHIME
- . SECURILOCK® ANTI-THEFT SYS
- . 3YR/36,000 BUMPER / BUMPER
- . 5YR/60,000 POWERTRAIN

Price Information

STANDARD VEHICLE PRICE

MSRP

\$34,230

Optional Equipment

- 2021 MODEL YEAR
- OXFORD WHITE
- MEDIUM EARTH GRAY VINYL PREFERRED EQUIPMENT PKG.600A
- . XL TRIM
- . AIR CONDITIONING - CFC FREE
- . AM/FM STEREO MP3/CLK
- . 6.2L EFI V-8 ENGINE
- . 6-SPEED AUTOMATIC TRANS G
- . LT245/75R17E BSW ALL-SEASON 3.73 RATIO REGULAR AXLE
- POWER EQUIPMENT GROUP 865
- JOB #1 ORDER
- TRAILER TOWING PACKAGE
- FLEET ADVERTISING CREDIT
- FRONT LICENSE PLATE BRACKET
- XL DECOR PACKAGE
- 10000# GVWR PACKAGE
- 50 STATE EMISSIONS
- SPARE TIRE AND WHEEL
- TELESCPNG TT MIRR-PWR/HTD JACK
- XL VALUE PACKAGE 395
- . CRUISE CONTROL

TOTAL VEHICLE & OPTIONS 35,490
DESTINATION & DELIVERY 1,695

TOTAL MSRP \$37,185

Disclaimer: Option pricing will be blank for any item that is priced as 0 or "No Charge".

26,787
 Doc Fee 85
 TAX 2,754.³⁸
 DMV Wire 30-
 Tire Fee 8⁷⁵

29,665.13/kx
Vehicle Engine Information

Actual mileage will vary with options, driving conditions, driving habits and vehicle's condition. Results reported to EPA indicate that the majority of vehicles with these estimates will achieve between _ and _ mpg in the city and between _ and _ mpg on the highway. For Comparison Shopping all vehicles classified as _ have been issued mileage ratings from _ to _ mpg city and _ to _ mpg highway.

3 currently available



Estimated Annual Fuel Cost: \$

CITY MPG 0
HIGHWAY MPG 0



Ford Extended Service Plan is the ONLY service contract backed by Ford and honored by the Ford r see our website at

Tim Osborn
Fleet Manager

WHERE INTEGRITY HAS MEANING
16005 Valley Blvd.
Fontana, CA 92335

(951) 833-0724 Cell
(909) 822-4401 Phone
tosborn@sunriseford.com



Staff Report

TO: City Council

FROM: Elizabeth Gibbs, Community Services Director

DATE: May 04, 2021

SUBJECT: **Award of Public Works Agreement for Stewart Park Pool and Pavilion Demolition Project to Weaver Grading Inc. in an Amount Not-to-Exceed \$60,200**

Background and Analysis:

On January 19, 2021, City Council directed City staff to move forward with a draft Stewart Park conceptual plan. Stewart Park enhancements include the replacement of the current Beaumont Plunge Pool with a state-of-the-art spray pad. Demolition of the pool and pavilion structures are now required. City staff has already completed the in-house demolition of the pool shell which had major leaks and failures.

Beaumont Municipal Code Chapter 3.01.070 requires a Notice of Inviting Sealed Bids for public projects be published for notification. This notice was published on April 19, 2021, and required the attendance of a pre-bid meeting and job walk on April 21, 2021. Three bids were received as follows:

Resource Environmental - \$182,050,
 Epsilon Engineering - \$118,286, and
 Weaver Grading - \$60,200.

The scope of work included in this agreement includes the demolition of the remaining pool facility, locker rooms, restrooms, pool decking, block walls, pavilion, dressing rooms, stage and the disposal of all debris. A security fence with privacy screening will be erected around the work site.

Fiscal Impact:

The total project amount is \$60,200 and will be funded from Capital Improvement Project P-01. City staff estimates it cost approximately \$536 to prepare this staff report.

Recommended Action:

Award a Public Works Agreement for Stewart Park Pool and Pavilion Demolition Project to Weaver Grading Inc. in an Amount Not-to-Exceed \$60,200, Authorize the City Manager to approve any change orders up to \$6,020, and Authorize the City Manager to execute the Agreement on behalf of the City.

Attachments:

- A. Public Works Agreement
- B. Map of Work Site

CITY OF BEAUMONT

PUBLIC WORKS AGREEMENT

This PUBLIC WORKS AGREEMENT (“Agreement”) is made and effective MAY 5, 2021 by and between the City of Beaumont, a municipal corporation (“CITY”), and WEAVER GRADING INC. - CSLB NUMBER 703974 (“CONTRACTOR”). In consideration of the mutual covenants and conditions set forth herein, the parties agree as follows:

I. SCOPE OF WORK

The CONTRACTOR shall perform within the time set forth in Article 2 of this Agreement and shall furnish all labor, materials, equipment, tools, utility services, and transportation and perform and complete all work required in connection with the STEWART PARK POOL AND PAVILION DEMOLITION PROJECT (hereinafter “Project”).

CITY’s Invitation for Bids (“Invitation”) for the Project, dated April 19, 2021, and CONTRACTOR’s Bid in response to the Invitation, dated April 28, 2021, are attached hereto as Exhibits “A” and “B”, respectively and incorporated herein by this reference. The Scope of Work for the Project is set forth in the Invitation. In the event that any terms of the Bid are different from the Invitation for Bids, the Invitation for Bids shall control. Any additional terms in the Bid that purport to bind the City to any additional terms not contained in this Agreement and related attachments shall not be binding on the City.

By entering into this Agreement, CONTRACTOR acknowledges that there may be other contractors on the site whose work will be coordinated with that of its own. CONTRACTOR expressly warrants and agrees that it will cooperate with other contractors and will do nothing to delay, hinder, or interfere with the work of other separate contractors, the CITY, the Construction Manager, the Engineer, or utilities. CONTRACTOR also expressly agrees that, in the event its work is hindered, delayed, interfered with, or otherwise affected by a separate contractor, its sole remedy will be a direct action against the separate contractor. To the extent allowed by law, the CONTRACTOR will have no remedy, and hereby expressly waives any remedy against the CITY, the Construction Manager (if any), and the Engineer on account of delay, hindrance, interference or other events.

II. TIME FOR PROJECT COMPLETION

All of CONTRACTOR’s work on the Project shall be completed within durations established for the individual activities as set forth in the Project Construction Schedule, attached hereto as Exhibit “C” and incorporated herein by this reference. All work shall commence ten (10) calendar days after receiving a written Notice of Award from the CITY or Construction Manager, if a Construction Manager is employed by CITY on the Project. CONTRACTOR shall refer to the invitations for bids, and Project Plans and

Specifications, all of which, as set forth below, are incorporated herein by reference, for contractual obligations regarding individual activity durations.

III. THE CONTRACT SUM

The CITY shall pay to the CONTRACTOR for the performance of this Agreement, subject to any additions and deductions provided in the Project documents, the lump sum of \$ 60,200.00 ("Contract Sum"). Except for change orders approved by City as provided in this Agreement, Contractor shall complete the Project for an amount not to exceed the Contract Sum.

IV. PROGRESS PAYMENTS

Based upon Applications for Payment submitted to the Engineer by the CONTRACTOR and Certificates for Payment issued by the Engineer, the CITY shall make progress payments on account of the Contract Sum to the CONTRACTOR as provided in the General Conditions, which are fully incorporated into this Agreement by this reference.

This Agreement is subject to the provisions of Article 1.7 (commencing at Section 20104.50) of Division 2, Part 3 of the Public Contract Code regarding prompt payment of contractors by local governments. Article 1.7 mandates certain procedures for the payment of undisputed and properly submitted payment requests within 30 days after receipt, for the review of payment requests, for notice to Contractor of improper payment requests, and provides for the payment of interest on progress payment requests which are not timely made in accordance with that Article. This Agreement hereby incorporates the provisions of Article 1.7 as though fully set forth herein.

V. INDEMNITY, DEFENSE AND HOLD HARMLESS AGREEMENT

CONTRACTOR shall indemnify, defend with legal counsel approved by CITY, and hold harmless CITY, its officers, officials, employees and volunteers from and against all liability, loss, damage, expense, cost (including without limitation reasonable legal counsel fees, expert fees and all other costs and fees of litigation) of every nature arising out of or in connection with CONTRACTOR's negligence, recklessness or willful misconduct in the performance of work hereunder or its failure to comply with any of its obligations contained in this Agreement, except such loss or damage which is caused by the sole or active negligence or willful misconduct of the CITY. Should conflict of interest principles preclude a single legal counsel from representing both CITY and CONTRACTOR, or should CITY otherwise find CONTRACTOR's legal counsel unacceptable, then CONTRACTOR shall reimburse the CITY its costs of defense, including without limitation reasonable legal counsels fees, expert fees and all other costs and fees of litigation. The CONTRACTOR shall promptly pay any final judgment rendered against the CITY (and its officers, officials, employees and volunteers) with respect to claims determined by a trier of fact to have been the result of the CONTRACTOR's negligent, reckless or wrongful performance. It is expressly understood and agreed that the foregoing provisions are intended to be as broad and

inclusive as is permitted by the law of the State of California and will survive termination of this Agreement.

CONTRACTOR obligations under this section apply regardless of whether or not such claim, charge, damage, demand, action, proceeding, loss, stop notice, cost, expense, judgment, civil fine or penalty, or liability was caused in part or contributed to by an Indemnitee. However, without affecting the rights of CITY under any provision of this agreement, CONTRACTOR shall not be required to indemnify and hold harmless CITY for liability attributable to the active negligence of CITY, provided such active negligence is determined by agreement between the parties or by the findings of a court of competent jurisdiction. In instances where CITY is shown to have been actively negligent and where CITY active negligence accounts for only a percentage of the liability involved, the obligation of CONTRACTOR will be for that entire portion or percentage of liability not attributable to the active negligence of CITY.

VI. PREVAILING WAGES

- A. Contractor shall comply with all applicable laws and regulations relating to prevailing wages. Wage rates for this Project shall be in accordance with the “General Wage Determination Made By the Director of Industrial Relations Pursuant To California Labor Code, Part 7, Chapter 1, Article 2, Sections 1770, 1773 and 1773.1”, for Riverside County. Wage rates shall conform with those posted at Beaumont City Hall and the Project site.
- B. The following Labor Code sections are hereby referenced and made a part of this Agreement:
1. Section 1775 - Penalty for Failure to Comply with Prevailing Wage Rates.
 2. Section 1777.4 - Apprenticeship Requirements.
 3. Section 1777.5 - Apprenticeship Requirements.
 4. Section 1813 - Penalty for Failure to Pay Overtime.
 5. Sections 1810 and 1811 - Working Hour Restrictions.
 6. Section 1775 - Payroll Records.
 7. Section 1773.8 - Travel and Subsistence Pay.

VII. RECORD AUDIT

In accordance with Government Code, Section 8546.7, records of both the CITY and the CONTRACTOR shall be subject to examination and audit by the Auditor General for a period of three (3) years after final payment.

VIII. FINAL PAYMENT

Final payment, constituting the entire unpaid balance of the Agreement Sum, shall be paid by the CITY to the CONTRACTOR no sooner than thirty-five (35) days after a Notice of Completion has been recorded, unless otherwise stipulated in the Notice of

Completion, provided the work has then been completed, the Agreement fully performed, and a final Certificate for Payment has been issued by the Engineer.

IX. CONTRACTOR'S FAILURE TO PROCURE COMPLETION OF PROJECT

In the event CONTRACTOR fails to furnish tools, equipment, or labor in the necessary quantity or quality, or fails to prosecute the work or any part thereof contemplated by this Agreement in a diligent and workmanlike manner, and if the CONTRACTOR for a period of three (3) calendar days after receipt of written demand from CITY or its designated representative to do so, fails to furnish tools, equipment, or labor in the necessary quantity or quality, and to prosecute its work and all parts thereof in a diligent and workmanlike manner, or after commencing to do so within said three (3) calendar days, fails to continue to do so; then the CITY may exclude the CONTRACTOR from the premises, or any portion thereof, and take possession of said premises or any portion thereof, together with all material and equipment thereon, and may complete the work contemplated by this Agreement or any portion of said work, either by furnishing the tools, equipment, labor or material necessary, or by letting the unfinished portion of said work, or the portion taken over by the CITY to another contractor or by a combination of such methods. In any event, the procuring of the completion of said work, or the portion thereof taken over by the CITY, shall be a charge against the CONTRACTOR, and may be deducted from any money due or becoming due to CONTRACTOR from the CITY, or the CONTRACTOR shall pay the CITY the amount of said charge, or the portion thereof unsatisfied. The sureties provided for under this Agreement shall become liable for payment should CONTRACTOR fail to pay in full any said cost incurred by the CITY.

X. INSURANCE

Prior to the beginning of and throughout the duration of the Project, CONTRACTOR and its subcontractors shall maintain insurance in conformance with the requirements set forth below. Attached hereto as **Exhibit "D"** are copies of Certificates of Insurance and the waiver of subrogation endorsement as required by Section 6.B.1. CONTRACTOR will use existing coverage to comply with these requirements. If that existing coverage does not meet the requirements set forth herein, CONTRACTOR agrees to amend, supplement or endorse the existing coverage to do so.

CONTRACTOR acknowledges that the insurance coverage and policy limits set forth in this section constitute the minimum amount of coverage required. Any insurance proceeds available to CONTRACTOR or its subcontractors in excess of the limits and coverage identified in this Agreement and which is applicable to a given loss, claim or demand, will be equally available to CITY.

A. Types of Insurance

Without limiting CONTRACTOR's indemnification of CITY, and prior to commencement of Work, CONTRACTOR shall obtain, provide and maintain at its own

expense during the term of this Agreement, policies of insurance of the type and amounts described below and in a form satisfactory to CITY:

1. **General liability insurance.** CONTRACTOR shall maintain commercial general liability insurance with coverage at least as broad as Insurance Services Office form CG 00 01, in an amount not less than \$1,000,000 per occurrence, \$2,000,000 general aggregate, for bodily injury, personal injury, and property damage, and a \$2,000,000 completed operations aggregate. The policy must include contractual liability that has not been amended. Any endorsement restricting standard ISO “insured contract” language will not be accepted.
2. **Automobile liability insurance.** CONTRACTOR shall maintain automobile insurance at least as broad as Insurance Services Office form CA 00 01 covering bodily injury and property damage for all activities of the CONTRACTOR arising out of or in connection with Work to be performed under this Agreement, including coverage for any owned, hired, non-owned or rented vehicles, in an amount not less than \$1,000,000 combined single limit for each accident.
3. **Umbrella or excess liability insurance.** If CONTRACTOR is using umbrella coverage to meet part of its liability insurance requirements under Paragraph 1 of this Section, CONTRACTOR shall obtain and maintain an umbrella or excess liability insurance that will provide bodily injury, personal injury, completed operations and property damage liability coverage at least as broad as the primary coverages set forth above, including commercial general liability and employer’s liability. Such policy or policies shall include the following terms and conditions:
 - A drop down feature requiring the policy to respond in the event that any primary insurance that would otherwise have applied proves to be uncollectable in whole or in part for any reason;
 - Pay on behalf of wording as opposed to reimbursement;
 - Concurrency of effective dates with primary policies;
 - Policies shall “follow form” to the underlying primary policies; and
 - Insureds under primary policies shall also be insureds under the umbrella or excess policies.
4. **Workers’ compensation insurance.** CONTRACTOR shall maintain Workers’ Compensation Insurance (Statutory Limits) and Employer’s Liability Insurance (with limits of at least \$1,000,000) for CONTRACTOR’s employees in accordance with the laws of the State of California, Section 3700 of the Labor Code. In addition, CONTRACTOR shall require each subcontractor to similarly maintain Workers’ Compensation Insurance and Employer’s Liability Insurance in accordance with the laws of the State of California, Section 3700 for all of the subcontractor’s employees.

CONTRACTOR shall submit to CITY, along with the certificate of insurance, a Waiver of Subrogation endorsement in favor of CITY, its officers, agents, employees and volunteers.

- 5. Pollution liability insurance.** Environmental Impairment Liability Insurance shall be written on a CONTRACTOR's Pollution Liability form or other form acceptable to CITY providing coverage for liability arising out of sudden, accidental and gradual pollution and remediation. The policy limit shall be no less than \$1,000,000 dollars per claim and in the aggregate. All activities contemplated in this Agreement shall be specifically scheduled on the policy as "covered operations." The policy shall provide coverage for the hauling of waste from the project site to the final disposal location, including non-owned disposal sites.

Products/completed operations coverage shall extend a minimum of three (3) years after project completion. Coverage shall be included on behalf of the insured for covered claims arising out of the actions of independent contractors. If the insured is using subcontractors, the Policy must include work performed "by or on behalf" of the insured. Policy shall contain no language that would invalidate or remove the insurer's duty to defend or indemnify for claims or suits expressly excluded from coverage. Policy shall specifically provide for a duty to defend on the part of the insurer. The CITY, its officials, officers, agents, and employees, shall be included as insureds under the policy.

- 6. Builder's risk insurance.** Upon commencement of construction and with approval of CITY, CONTRACTOR shall obtain and maintain builder's risk insurance for the entire duration of the Project until only the CITY has an insurable interest. The Builder's Risk coverage shall include the coverages as specified below.

The named insureds shall be CONTRACTOR and CITY, including its officers, officials, employees, and agents. All Subcontractors (excluding those solely responsible for design Work) of any tier and suppliers shall be included as additional insureds as their interests may appear. CONTRACTOR shall not be required to maintain property insurance for any portion of the Project following transfer of control thereof to CITY. The policy shall contain a provision that all proceeds from the builder's risk policy shall be made payable to the CITY. The CITY will act as a fiduciary for all other interests in the Project.

Policy shall be provided for replacement value on an "all risk" basis for the completed value of the project. There shall be no coinsurance penalty or provisional limit provision in any such policy. Policy must include: (1) coverage for any ensuing loss from faulty workmanship, Nonconforming Work, omission or deficiency in design or specifications; (2) coverage against machinery accidents and operational testing; (3) coverage for removal of

debris, and insuring the buildings, structures, machinery, equipment, materials, facilities, fixtures and all other properties constituting a part of the Project; (4) Ordinance or law coverage for contingent rebuilding, demolition, and increased costs of construction; (5) transit coverage (unless insured by the supplier or receiving contractor), with sub-limits sufficient to insure the full replacement value of any key equipment item; (6) Ocean marine cargo coverage insuring any Project materials or supplies, if applicable; (7) coverage with sub-limits sufficient to insure the full replacement value of any property or equipment stored either on or off the Site or any staging area. Such insurance shall be on a form acceptable to CITY to ensure adequacy of terms and sublimits and shall be submitted to the CITY prior to commencement of construction.

B. Other provisions or requirements

1. **Proof of insurance.** CONTRACTOR shall provide certificates of insurance to CITY as evidence of the insurance coverage required herein, along with a waiver of subrogation endorsement for workers' compensation. Insurance certificates and endorsements must be approved by CITY's risk manager prior to commencement of performance. Current certification of insurance shall be kept on file with CITY at all times during the term of this contract. CITY reserves the right to require complete, certified copies of all required insurance policies, at any time.
2. **Duration of coverage.** CONTRACTOR shall procure and maintain for the duration of the contract insurance against claims for injuries to persons or damages to property, which may arise from or in connection with the performance of the Work hereunder by CONTRACTOR, his agents, representatives, employees or subcontractors. CONTRACTOR must maintain general liability and umbrella or excess liability insurance for as long as there is a statutory exposure to completed operations claims. CITY and its officers, officials, employees, and agents shall continue as additional insureds under such policies.
3. **Primary/noncontributing.** Coverage provided by CONTRACTOR shall be primary and any insurance or self-insurance procured or maintained by CITY shall not be required to contribute with it. The limits of insurance required herein may be satisfied by a combination of primary and umbrella or excess insurance. Any umbrella or excess insurance shall contain or be endorsed to contain a provision that such coverage shall also apply on a primary and non-contributory basis for the benefit of CITY before the CITY's own insurance or self-insurance shall be called upon to protect it as a named insured.
4. **CITY's rights of enforcement.** In the event any policy of insurance required under this Agreement does not comply with these requirements or is canceled and not replaced, CITY has the right but not the duty to obtain the insurance it

deems necessary and any premium paid by CITY will be promptly reimbursed by CONTRACTOR or CITY will withhold amounts sufficient to pay premium from CONTRACTOR payments. In the alternative, CITY may cancel this Agreement.

5. **Acceptable insurers.** All insurance policies shall be issued by an insurance company currently authorized by the Insurance Commissioner to transact business of insurance or is on the List of Approved Surplus Line Insurers in the State of California, with an assigned policyholders' Rating of A- (or higher) and Financial Size Category Class VII (or larger) in accordance with the latest edition of Best's Key Rating Guide, unless otherwise approved by the CITY's risk manager.
6. **Waiver of subrogation.** All insurance coverage maintained or procured pursuant to this agreement shall be endorsed to waive subrogation against CITY, its elected or appointed officers, agents, officials, employees and volunteers or shall specifically allow CONTRACTOR or others providing insurance evidence in compliance with these specifications to waive their right of recovery prior to a loss. CONTRACTOR hereby waives its own right of recovery against CITY, and shall require similar written express waivers and insurance clauses from each of its subconsultants.
7. **Enforcement of contract provisions (non estoppel).** CONTRACTOR acknowledges and agrees that any actual or alleged failure on the part of the CITY to inform CONTRACTOR of non-compliance with any requirement imposes no additional obligations on the CITY nor does it waive any rights hereunder.
8. **Requirements not limiting.** Requirements of specific coverage features or limits contained in this Section are not intended as a limitation on coverage, limits or other requirements, or a waiver of any coverage normally provided by any insurance. Specific reference to a given coverage feature is for purposes of clarification only as it pertains to a given issue and is not intended by any party or insured to be all inclusive, or to the exclusion of other coverage, or a waiver of any type. If the CONTRACTOR maintains higher limits than the minimums shown above, the CITY requires and shall be entitled to coverage for the higher limits maintained by the CONTRACTOR. Any available insurance proceeds in excess of the specified minimum limits of insurance and coverage shall be available to the CITY.
9. **Notice of cancellation.** CONTRACTOR agrees to oblige its insurance agent or broker and insurers to provide to CITY with a thirty (30) day notice of cancellation (except for nonpayment for which a ten (10) day notice is required) or nonrenewal of coverage for each required coverage.

- 10. Additional insured status.** General liability policies shall provide or be endorsed to provide that CITY and its officers, officials, employees, agents, and volunteers shall be additional insureds under such policies. This provision shall also apply to any excess/umbrella liability policies.
- 11. Prohibition of undisclosed coverage limitations.** None of the coverages required herein will be in compliance with these requirements if they include any limiting endorsement of any kind that has not been first submitted to CITY and approved of in writing.
- 12. Separation of insureds.** A severability of interests provision must apply for all additional insureds ensuring that CONTRACTOR's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the insurer's limits of liability. The policy(ies) shall not contain any cross-liability exclusions.
- 13. Pass through clause.** CONTRACTOR agrees to ensure that its subconsultants, subcontractors, and any other party involved with the project who is brought onto or involved in the project by CONTRACTOR, provide the same minimum insurance coverage and endorsements required of CONTRACTOR. CONTRACTOR agrees to monitor and review all such coverage and assumes all responsibility for ensuring that such coverage is provided in conformity with the requirements of this section. CONTRACTOR agrees that upon request, all agreements with consultants, subcontractors, and others engaged in the project will be submitted to CITY for review.
- 14. CITY's right to revise requirements.** The CITY reserves the right at any time during the term of the contract to change the amounts and types of insurance required by giving the CONTRACTOR a ninety (90) day advance written notice of such change. If such change results in substantial additional cost to the CONTRACTOR, the CITY and CONTRACTOR may renegotiate CONTRACTOR's compensation.
- 15. Self-insured retentions.** Any self-insured retentions must be declared to and approved by CITY. CITY reserves the right to require that self-insured retentions be eliminated, lowered, or replaced by a deductible. Self-insurance will not be considered to comply with these specifications unless approved by CITY.
- 16. Timely notice of claims.** CONTRACTOR shall give CITY prompt and timely notice of claims made or suits instituted that arise out of or result from CONTRACTOR's performance under this Agreement, and that involve or may involve coverage under any of the required liability policies.
- 17. Additional insurance.** CONTRACTOR shall also procure and maintain, at its own cost and expense, any additional kinds of insurance, which in its own

judgment may be necessary for its proper protection and prosecution of the Work.

XI. CONTRACTOR'S LICENSE

CONTRACTOR must possess at the time of commencing work and throughout the Project duration, a Contractor's License, issued by the State of California, which is current and in good standing. CONTRACTOR shall ensure that any subcontractor working on the Project possesses at the time of commencing work and throughout the Project duration, a Contractor's License, issued by the State of California, which is current and in good standing.

XII. REGISTRATION REQUIREMENTS

A. Pursuant to Section 1771.1(a) of the Labor Code:

“A contractor or subcontractor shall not be qualified to bid on, be listed in a bid proposal, subject to the requirements of Section 4104 of the Public Contract Code, or engage in the performance of any contract for public work, as defined in this chapter, unless currently registered and qualified to perform public work pursuant to Section 1725.5. It is not a violation of this section for an unregistered contractor to submit a bid that is authorized by Section 7029.1 of the Business and Professions Code or by Section 10164 or 20103.5 of the Public Contract Code, provided the contractor is registered to perform public work pursuant to Section 1725.5 at the time the contract is awarded.”

B. CONTRACTOR must be registered with the Department of Industrial Relations (DIR) of the State of California in order to be eligible to work on public works projects. CONTRACTOR must ensure registration with the DIR that is active and in good standing.

C. No contractor or subcontractor may be listed on a bid proposal for a public works project (submitted on or after March 1, 2015) unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5 [with limited exceptions from this requirement for bid purposes only under Labor Code section 1771.1(a)].

No contractor or subcontractor may be awarded a contract for public work on a public works project (awarded on or after April 1, 2015) unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5.

This project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.

D. The CONTRACTOR is not subject to public works requirements (including registration with the DIR) if the public works project is under \$1,000, unless the CITY knows that the same CONTRACTOR will be awarded total project costs in excess of \$1,000 for a given year.

XIII. CORPORATION IN GOOD STANDING

If CONTRACTOR is a corporation, the undersigned hereby represents and warrants that the corporation is duly incorporated and in good standing in the State of California, and that MARK BENJAMIN WEAVER whose title is CEO/PRESIDENT is authorized to act for and bind the corporation.

XIV. PROVISIONS REQUIRED BY LAW

Each and every provision of law and clause required by law to be inserted in this Agreement shall be deemed to be inserted herein and the Agreement shall be read and enforced as though it were included herein, and if through mistake or otherwise any such provision is not inserted, or is not currently inserted, then upon application of either party the Agreement shall forthwith be physically amended to make such insertion or correction.

XV. SUBSURFACE HAZARDOUS MATERIALS

- A. In the event trenches or other excavations extend deeper than four (4) feet below the surface, the CONTRACTOR shall promptly, and before the following conditions are disturbed, notify the CITY in writing of any:
1. Material that the CONTRACTOR believes may be material that is hazardous waste, as defined in Section 25117 of the Health and Safety Code that is required to be removed to a Class I, Class II or Class III disposal site in accordance with the provisions of existing law.
 2. Subsurface or latent physical conditions at the site differing from those indicated.
 3. Unknown physical conditions at the site of any unusual nature, different materially from those ordinarily encountered and generally recognized as inherent in the Work or the character provided for in the CONTRACT.
- B. Upon receipt of said notification the CITY will investigate the conditions, and if it finds that the conditions do materially so differ, or do involve hazardous waste, and cause a decrease or increase in the CONTRACTOR's cost of or the time required for performance of any part of the work, the CITY will issue a change order under the procedures described in the General Conditions.
- C. In the event that a dispute arises between the CITY and the CONTRACTOR whether the conditions materially differ or involve hazardous waste or cause a decrease or increase in the CONTRACTOR's cost of or time required for performance of any part of the work, the CONTRACTOR shall not be excused from any scheduled completion date provided for by the Agreement, but shall proceed with all work to be performed under the Agreement. The CONTRACTOR shall retain any and all rights provided either by Agreement or

by law which pertain to the resolution of disputes and protests between the contracting parties.

XVI. COMPONENT PARTS OF THE CONTRACT

This Agreement entered into consists of the following CONTRACT DOCUMENTS, all of which are component parts of the Agreement as if herein set out in full or attached hereto:

- | | |
|--|---|
| <input type="checkbox"/> Notice Inviting Bids | <input type="checkbox"/> Information Required of Bidder |
| <input type="checkbox"/> Scope of Work Summary | <input type="checkbox"/> Construction Services Agreement |
| <input type="checkbox"/> Information for Bidders | <input type="checkbox"/> Certificate Regarding Worker's |
| <input type="checkbox"/> Bid Form | <input type="checkbox"/> Compensation |
| <input type="checkbox"/> Non-Collusion Affidavit | <input type="checkbox"/> Drug-free Workplace Certification |
| <input type="checkbox"/> Site Visit Certification | <input type="checkbox"/> Plans and Specifications |
| <input type="checkbox"/> Faithful Performance Bond | <input type="checkbox"/> Addenda |
| <input type="checkbox"/> Labor and Materials Payment Bond | <input type="checkbox"/> Drawings |
| <input type="checkbox"/> General and Supplemental Conditions | <input type="checkbox"/> Change Orders |
| <input type="checkbox"/> Special Conditions | <input type="checkbox"/> Shop Drawing Transmittals |
| <input type="checkbox"/> Project Construction Schedule | <input type="checkbox"/> Contractor's Certificate Regarding |
| <input type="checkbox"/> Proposed Subcontractors | <input type="checkbox"/> Non-Asbestos Containing Materials |
| <input type="checkbox"/> Bid Bond | |

All of the above-named CONTRACT DOCUMENTS are intended to be complementary. Work required by one of the above-named CONTRACT DOCUMENTS and not by others shall be done as if required by all.

XVII. ENTIRE CONTRACT

This Agreement constitutes the entire contract of the parties. No other agreements or contracts, whether oral or written, pertaining to the work to be performed, exists between the parties. This Agreement can be modified only by an amendment in writing, signed by both parties.

[Signatures on following page.]

SIGNATURE PAGE TO
CITY OF BEAUMONT
PUBLIC WORKS AGREEMENT

CITY:

CITY OF BEAUMONT

By: _____
Todd Parton, City Manager

CONTRACTOR:

WEAVER GRADING, INC

By: _____

Print Name: _____

Title: _____

CITY OF BEAUMONT
PUBLIC WORKS AGREEMENT

EXHIBIT "A"

INVITATION FOR BID

THE PRESS-ENTERPRISE

1825 Chicago Ave, Suite 100
Riverside, CA 92507
951-684-1200
951-368-9018 FAX

**PROOF OF PUBLICATION
(2010, 2015.5 C.C.P)**

Publication(s): The Press-Enterprise

PROOF OF PUBLICATION OF

Ad Desc.: Notice Inviting Bids Pool Demo /

I am a citizen of the United States. I am over the age of eighteen years and not a party to or interested in the above entitled matter. I am an authorized representative of THE PRESS-ENTERPRISE, a newspaper in general circulation, printed and published daily in the County of Riverside, and which newspaper has been adjudicated a newspaper of general circulation by the Superior Court of the County of Riverside, State of California, under date of April 25, 1952, Case Number 54446, under date of March 29, 1957, Case Number 65673, under date of August 25, 1995, Case Number 267864, and under date of September 16, 2013, Case Number RIC 1309013; that the notice, of which the annexed is a printed copy, has been published in said newspaper in accordance with the instructions of the person(s) requesting publication, and not in any supplement thereof on the following dates, to wit:

04/18/2021

I certify (or declare) under penalty of perjury that the foregoing is true and correct.

Date: April 18, 2021
At: Riverside, California



Legal Advertising Representative, The Press-Enterprise

BEAUMONT, CITY OF / LEGAL
550 E SIXTH ST
BEAUMONT, CA 92223

Ad Number: 0011455758-01

P.O. Number:

Ad Copy:

Item 14.

CITY OF BEAUMONT NOTICE INVITING BIDS

The City of Beaumont, Community Services Department ("City") will receive bids for the **Stewart Park Pool and Pavilion Demolition Project** at CITY HALL (located at 550 E. 6th Street, Beaumont, California, 92223), no later than **3:00 P.M., Wednesday April 28, 2021**, at which time or thereafter said bids will be opened and read aloud. Bids received after this time will be returned unopened. Bids shall be valid for 60 calendar days after the bid opening date.

A **mandatory pre-bid meeting** will be held on **Wednesday, April 21, 2021** at 9:00 AM at Stewart Park Municipal Pool, 985 Maple Ave., Beaumont, California. Bids will not be accepted from any bidder who does not attend or remain for the duration of the mandatory pre-bid meeting.

Bids must be submitted on the City's Bid Forms. Bids must be prepared on the approved Bid forms and in the manner prescribed in the Instructions to Bidders. Bids must be submitted in a sealed envelope which is plainly marked on the outside with the following: **"ATTN.: SEALED BID FOR STEWART PARK POOL AND PAVILLION DEMO PROJECT."**

WORK: Demo and remove entire pavilion and pool area, including concrete, brick wall, pool building footings, retaining wall, dressing rooms, and stage. The work also includes clearing and haul off of all material.

For further information, please see the form titled "Notice of Requirement for Affirmative Action to Ensure Equal Employment Opportunity (Executive Order 11246)" within the Bid Documents. The City of Beaumont hereby affirmatively ensures that minority business enterprises will be afforded full opportunity to submit Bids in response to this Notice, and that minorities nor minority business enterprises will not be discriminated against on the basis of race, color, national origin, ancestry, sex, or religion in any consideration leading to the award of contract.

Bidders may obtain a copy of the Contract Documents at **City Hall** beginning Monday, April 19, 2021. The documents can also be downloaded from City Website (www.beaumontca.gov) and reviewed.

Once the contract is awarded there will be a **Pre-Construction Conference** at a determined date for the awarded bidder.

Each bid shall be accompanied by, the non-collusion affidavit, the list of proposed subcontractors, and all additional documentation required by the Instructions to Bidders.

Each bidder shall be a licensed contractor pursuant to the Business and Professions Code and shall be licensed in the following appropriate classification(s) of contractor's license(s), for the work bid upon, and must maintain the license(s) throughout the duration of the Contract: Bidders shall possess the following California Contractor's license in order to perform the Work of this Project: **Class "A"** or a letter from **Contractor's Licensing Board** outlining the combination of various licenses necessary to perform all the work at the time the bid is submitted to the City.

Pursuant to Public Contract Code Section 3400(b), if the City has made any findings designating certain materials, products, things, or services by specific brand or trade name, such findings and the materials, products, things, or services and their specific brand or trade names will be set forth in the Special Conditions.

Award of Contract: The City shall award the Contract for the Project to the lowest responsive, responsible bidder as determined from the base bid alone by the City. The City reserves the right to reject any or all bids or to waive any irregularities or informalities in any bids or in the bidding process.

For further information contact the following persons;
Doug Story, Community Services Department
(951) 769-8520, or by FAX at (951) 769-8526
E-mail: dstory@beaumontca.gov

Press-Enterprise: 4/18

CITY OF BEAUMONT
PUBLIC WORKS AGREEMENT

EXHIBIT "B"

CONTRACTOR'S BID SCHEDULE AND SCOPE OF WORK

**Stewart Park Pool and Pavilion Demolition Project
Mandatory Pre Bid Meeting
Wednesday, April 21, 2021, 9:00 am**

Each prospective bidder is responsible for fully acquainting itself with the conditions of the Project Site, as well as those relating to the construction and labor of the Project, to fully understand the facilities, difficulties and restrictions which may impact the cost or effort required to complete the Project.

Bids will be received by City of Beaumont at the address shown in the Notice Inviting Bids up to the date and time shown therein. City will leave unopened any Bid received after the specified date and time, and any such unopened Bid will be returned to the Bidder. It is the Bidder's sole responsibility to ensure that its Bid is received as specified. Bids may be submitted earlier than the dates(s) and time(s) indicated.

Bids will be opened at the date and time stated in the Notice Inviting Bids, and the amount of each Bid will be read aloud and recorded. All Bidders may, if they desire, attend the opening of Bids. City may in its sole discretion, elect to postpone the opening of the submitted Bids. City reserves the right to reject any or all Bids and to waive any informality or irregularity in any Bid. In the event of a discrepancy between the written amount of the Bid Price and the numerical amount of the Bid Price, the written amount shall govern.

Once all Bids are opened and reviewed to determine the lowest responsive and responsible Bidder, City of Beaumont may award the contract. Once the CITY notifies the Bidder of the award, the Bidder will have ten (10) consecutive calendar days from the date of this notification to execute the Contract and supply the CITY with all of the required documents and certifications. Regardless whether the Bidder supplies the required documents and certifications in a timely manner, the Contract time will begin to run ten (10) calendar days from the date of the notification. Once the CITY receives all of the properly drafted and executed documents and certifications from the Bidder, CITY shall issue a Notice to Proceed to that Bidder.

The successful bidder shall procure the insurance in the form and in the amount specified in the Contract Documents.

City of Beaumont has obtained from the Director of the Department of Industrial Relations the general prevailing rate of per diem wages in the locality in which this work is to be performed for each craft or type of worker needed to execute the Contract. These rates are available online at <http://www.dir.ca.gov/dlsr>. Bidders are advised that a copy of these rates must be posted by the successful Bidder at the job site(s).

BID FORM

NAME OF BIDDER: Weaver Grading Inc

The undersigned, hereby declare that we have carefully examined the location of the proposed Work, and have read and examined the Contract Documents, including all plans, specifications, and all addenda, if any, for the following Project:

Stewart Park Pool and Pavilion Demolition Project

BID SCHEDULE

Item No.	Item Description	Unit	Quantity	Unit Price	Cost
1	Mobilization	LS	1	500-	500.00
2	Demobilization	LS	1	500-	500.00
3	Demolition of Pool	LS	1	10,400	10,400.00
4	Demolition of Pavilion	LS	1	5,800	5,800.00
5	Clearing and Haul Off of All Material	LS	1	38,000	38,000.00
6	Temporary Fencing with Privacy Screening	LS	1	5,000	5,000.00
				Total	60,200.00

In case of discrepancy between the unit price and the item cost set forth for a unit basis item, the unit price shall prevail and, shall be utilized as the basis for determining the lowest responsive, responsible bidder. However, if the amount set forth as a unit price is ambiguous, unintelligible or uncertain for any cause, or is omitted, or is the same amount as the entry in the "Item Cost" column, then the amount set forth in the "Item Cost" column for the item shall prevail and shall be divided by the estimated quantity for the item and the price thus obtained shall be the unit price. Final payment shall be determined by the Engineer from measured quantities of work performed based upon the unit price.

TOTAL BID PRICE (BASED ON BID SCHEDULE TOTAL OF UNIT PRICES):

\$ 60,200.00

Sixty thousand two hundred

Total Bid Price in Written Form

In case of discrepancy between the written price and the numerical price, the written price shall prevail.

The undersigned agrees that this Bid Form constitutes a firm offer to City of Beaumont which cannot be withdrawn for the number of calendar days indicated in the Notice Inviting Bids from and after the bid opening, or until a Contract for the Work is fully executed by City of Beaumont and a third party, whichever is earlier.

The Contract duration shall commence on the date stated in City of Beaumont's Notice to Proceed, and shall be completed by the Contractor in the time specified in the Contract Documents. In no case shall the Contractor commence construction prior to the date stated in City of Beaumont's Notice to Proceed.

Mark Weaver - MWA
Name/Signature

President
Title

4-28-2021
Date

CITY OF BEAUMONT
ADDENDUM NO. 1
TO THE BIDDING DOCUMENTS & CONTRACT,
STEWART PARK POOL AND PAVILION DEMOLITION PROJECT

Bidders are advised that the BID SCHEDULE for the above referenced project are hereby amended in the following manner and the following manner only:

1. Include temporary fencing with privacy screening (Item No. 6) around the construction site as noted with the yellow line in the attached map.

Dated: April 23, 2021

By: 
Doug Story, Assistant Director of Community Services

By: Weaver Grading Inc.
(Bidder's Company Name)

Date Received by Bidder:

4-26-2021


(Bidder's Signature)

Mark Weaver
(Type or Print Name)

Bidder shall include a signed copy of this Addendum No. 1 with the bid proposal.

CITY OF BEAUMONT
PUBLIC WORKS AGREEMENT

EXHIBIT "C"

Project Construction Schedule

All work must be completed by June 30, 2021

CITY OF BEAUMONT
PUBLIC WORKS AGREEMENT

EXHIBIT "D"

Insurance Certificates and Endorsements



WEAVGRA-01

SKWON

DATE (MM/DD/YYYY)
10/23/2020

CERTIFICATE OF LIABILITY INSURANCE

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER
Weingarten & Hough, Inc.
1555 South Palm Canyon Dr. #D101
Palm Springs, CA 92264

CONTACT NAME:
PHONE (A/C, No, Ext): (760) 325-2526 FAX (A/C, No): (760) 322-5970
E-MAIL ADDRESS:

INSURED
Weaver Grading, Inc.
P.O. Box 67
Beaumont, CA 92223

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A: Financial Pacific Insurance Company	31453
INSURER B: Insurance Company of the West	27847
INSURER C:	
INSURER D:	
INSURER E:	
INSURER F:	

COVERAGES CERTIFICATE NUMBER: REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL	SUBR	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:		X	60448157	6/18/2020	6/18/2021	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Each occurrence) \$ 100,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COM/OP AGG \$ 2,000,000 COMBINED SINGLE LIMIT (Each accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ EACH OCCURRENCE \$ 1,000,000 AGGREGATE \$ 3,000,000 <input checked="" type="checkbox"/> PER STAT <input type="checkbox"/> OTHER
A	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY			60448157	6/18/2020	6/18/2021	BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ EACH OCCURRENCE \$ 1,000,000 AGGREGATE \$ 3,000,000
A	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$			60448157	6/18/2020	6/18/2021	EACH OCCURRENCE \$ 1,000,000 AGGREGATE \$ 3,000,000
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY <input checked="" type="checkbox"/> Y/N ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below		N/A	WVE5050494 01	9/4/2020	9/4/2021	<input checked="" type="checkbox"/> PER STAT <input type="checkbox"/> OTHER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
City of Beaumont is an Additional Insured when required by a written contract.

CERTIFICATE HOLDER

CANCELLATION

City of Beaumont
550 E 6th Street
Beaumont, CA 92223

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

J.H.H.





Staff Report

TO: City Council
FROM: Kari Mendoza, Administrative Services Director
DATE: May 4, 2021
SUBJECT: Approval of Compensation Plan and Salary Table

Background and Analysis:

The attached compensation plan has been adjusted to account for all 2021 minimum wage requirements and negotiated salary increases in current labor agreements between Police Managers as Individuals and Managers/Professional/Technical as Individuals and the City of Beaumont. These groups received a negotiated 2.5% cost of living increase across the board pursuant to the current memorandums of understanding.

All positions authorized by City Council since the last adoption of the compensation plan on August 18, 2020, have been added to the schedule. These positions include the HR/Payroll Technician, Support Services Supervisor, Assistant Director of Public Works/Assistant City Engineer and Transit Operations Manager.

Fiscal Impact:

All negotiated salary increases were adopted in FY2021 budget. City staff estimates it cost approximately \$1,950 to prepare this report.

Recommended Action:

Approval of the Compensation Plan and Salary Table.

Attachments:

- A. Compensation Plan and Salary Table
- B. Salary Table



- COMPENSATION PLAN -

Adopted by City Council May 4, 2021

Position	MOU Assigned To	Salary Range	
		First Step	Top Step
Account Technician	SEIU	44	54
Administrative Services Director	Employment Contract	84	94
Administrative Services Manager	Professional/Technical/Manager	64	74
Animal Control Officer I	SEIU	44	54
Animal Control Officer II	SEIU	48	58
Assistant City Manager	Employment Contract	95	105
Assistant Director of Community Services	Professional/Technical/Manager	71	81
Assistant Director of Public Works/ Assistant City Engineer	Professional/Technical/Manager	76	86
Budget Specialist	Professional/Technical/Manager	60	70
Building/Grounds/Maintenance Supervisor	Professional/Technical/Manager	57	67
Building/Grounds/Maintenance Worker	SEIU	38	48
Building Inspector	SEIU	52	62
Building Permit Technician I	SEIU	40	50
Building Permit Technician II	SEIU	46	56
Building Plans Examiner	SEIU	54	64
Bus Driver – Lead	SEIU	38	48
Bus Driver I	SEIU	32	42
Bus Driver II	SEIU	38	48
Chief Building Official	Professional/Technical/Manager	82	92
Chief of Police	Employment Contract	94	104
Chief Plant Operator – Wastewater	Professional/Technical/Manager	77	87
City Engineer / Public Works Director	Employment Contract	92	102
City Manager	Employment Contract	102	112
Community Enhancement Officer I	SEIU	46	56
Community Enhancement Officer II	SEIU	50	60
Community Development Director	Employment Contract	84	94
Community Services Director	Employment Contract	82	92
Community Services Manager	Professional/Technical/Manager	58	68
Customer Service Coordinator I	SEIU	32	42
Customer Service Coordinator II	SEIU	38	48
Deputy Chief of Police	Police Management	92	102
Deputy City Clerk	Professional/Technical/Manager	64	74
Economic Development Manager	Professional/Technical/Manager	72	82
Engineering Development Technician I	SEIU	40	50
Engineering Development Technician II	SEIU	46	56
Executive Assistant	Professional/Technical/Manager	44	54
Finance Director	Employment Contract	84	94
Information Technology Manager	Professional/Technical/Manager	73	83
HR/Payroll Technician	SEIU	42	52
IT Analyst I	SEIU	41	51

Position	MOU Assigned To	Salary Range	
		First Step	Top Step
IT Analyst II	SEIU	49	59
Lead Building/Grounds Maintenance Worker	SEIU	44	54
Lead Dispatcher	POA	47	57
Mechanic	SEIU	44	54
Management Analyst	SEIU	58	68
Planning Manager	Professional/Technical/Manager	68	78
Police Cadet		24	24
Police Corporal	Police Officers Association	63	73
Police Lieutenant	Police Management	83	93
Police Officer	Police Officers Association	57	67
Police Sergeant	Police Officers Association	69	79
Police Services Analyst	Police Officers Association	55	65
Principal Engineer	Professional/Technical/Manager	70	80
Public Safety Dispatcher I	Police Officers Association	35	45
Public Safety Dispatcher II	Police Officers Association	41	51
Police Trainee		43	43
Public Works Inspector	SEIU	57	67
Recreation Specialist	SEIU	21	31
Senior Accountant	Professional/Technical/Manager	68	78
Solid Waste Recycling Manager	Professional/Technical/Manager	60	70
Special Projects/Press Information Officer	Professional/Technical/Manager	60	70
Street Maintenance Supervisor	Professional/Technical/Manager	50	60
Street Maintenance Worker	SEIU	44	54
Support Services Specialist I	Police Officers Association	29	39
Support Services Specialist II	Police Officers Association	35	45
Support Services Supervisor	Police Officers Association	55	65
Transit Operations Manager	Professional/Technical/Manager	66	76
Vehicle Maintenance Supervisor	Professional/Technical/Manager	50	60
Wastewater Collection System Worker I	SEIU	44	54
Wastewater Collection System Worker II	SEIU	48	58
Wastewater Plant Operator I	SEIU	45	55
Wastewater Plant Operator II	SEIU	51	61
Wastewater Plant Operator III	SEIU	55	65
Wastewater Plant Operator IV	SEIU	59	69
Wastewater Plant Operator V	SEIU	63	73
Wastewater Plant Supervisor	Professional/Technical/Manager	65	75

City of Beaumont

Salary Range Table Effective 5/4/2021

Step	Annual	Monthly	Bi-Weekly	Hourly
0	\$ 17,638.44	\$ 1,469.87	\$ 678.40	\$ 8.48
1	\$ 18,075.24	\$ 1,506.27	\$ 695.20	\$ 8.69
2	\$ 18,532.80	\$ 1,544.40	\$ 712.80	\$ 8.91
3	\$ 18,990.36	\$ 1,582.53	\$ 730.40	\$ 9.13
4	\$ 19,468.80	\$ 1,622.40	\$ 748.80	\$ 9.36
5	\$ 19,947.24	\$ 1,662.27	\$ 767.20	\$ 9.59
6	\$ 20,446.44	\$ 1,703.87	\$ 786.40	\$ 9.83
7	\$ 20,966.40	\$ 1,747.20	\$ 806.40	\$ 10.08
8	\$ 21,486.36	\$ 1,790.53	\$ 826.40	\$ 10.33
9	\$ 22,027.20	\$ 1,835.60	\$ 847.20	\$ 10.59
10	\$ 22,588.80	\$ 1,882.40	\$ 868.80	\$ 10.86
11	\$ 23,150.40	\$ 1,929.20	\$ 890.40	\$ 11.13
12	\$ 23,712.00	\$ 1,976.00	\$ 912.00	\$ 11.40
13	\$ 24,315.24	\$ 2,026.27	\$ 935.20	\$ 11.69
14	\$ 24,918.36	\$ 2,076.53	\$ 958.40	\$ 11.98
15	\$ 25,542.36	\$ 2,128.53	\$ 982.40	\$ 12.28
16	\$ 26,187.24	\$ 2,182.27	\$ 1,007.20	\$ 12.59
17	\$ 26,832.00	\$ 2,236.00	\$ 1,032.00	\$ 12.90
18	\$ 27,518.40	\$ 2,293.20	\$ 1,058.40	\$ 13.23
19	\$ 28,204.80	\$ 2,350.40	\$ 1,084.80	\$ 13.56
20	\$ 28,911.96	\$ 2,409.33	\$ 1,112.00	\$ 13.90
21	\$ 29,619.24	\$ 2,468.27	\$ 1,139.20	\$ 14.24
22	\$ 30,368.04	\$ 2,530.67	\$ 1,168.00	\$ 14.60
23	\$ 31,116.84	\$ 2,593.07	\$ 1,196.80	\$ 14.96
24	\$ 31,907.16	\$ 2,658.93	\$ 1,227.20	\$ 15.34
25	\$ 32,697.60	\$ 2,724.80	\$ 1,257.60	\$ 15.72
26	\$ 33,508.80	\$ 2,792.40	\$ 1,288.80	\$ 16.11
27	\$ 34,361.64	\$ 2,863.47	\$ 1,321.60	\$ 16.52
28	\$ 35,214.36	\$ 2,934.53	\$ 1,354.40	\$ 16.93
29	\$ 36,087.96	\$ 3,007.33	\$ 1,388.00	\$ 17.35
30	\$ 37,003.20	\$ 3,083.60	\$ 1,423.20	\$ 17.79
31	\$ 37,918.44	\$ 3,159.87	\$ 1,458.40	\$ 18.23
32	\$ 38,875.20	\$ 3,239.60	\$ 1,495.20	\$ 18.69
33	\$ 39,852.84	\$ 3,321.07	\$ 1,532.80	\$ 19.16
34	\$ 40,830.36	\$ 3,402.53	\$ 1,570.40	\$ 19.63
35	\$ 41,849.64	\$ 3,487.47	\$ 1,609.60	\$ 20.12
36	\$ 42,910.44	\$ 3,575.87	\$ 1,650.40	\$ 20.63
37	\$ 43,971.24	\$ 3,664.27	\$ 1,691.20	\$ 21.14
38	\$ 45,073.56	\$ 3,756.13	\$ 1,733.60	\$ 21.67
39	\$ 46,196.76	\$ 3,849.73	\$ 1,776.80	\$ 22.21
40	\$ 47,361.60	\$ 3,946.80	\$ 1,821.60	\$ 22.77
41	\$ 48,547.20	\$ 4,045.60	\$ 1,867.20	\$ 23.34
42	\$ 49,753.56	\$ 4,146.13	\$ 1,913.60	\$ 23.92
43	\$ 51,001.56	\$ 4,250.13	\$ 1,961.60	\$ 24.52
44	\$ 52,270.44	\$ 4,355.87	\$ 2,010.40	\$ 25.13
45	\$ 53,580.84	\$ 4,465.07	\$ 2,060.80	\$ 25.76
46	\$ 54,932.76	\$ 4,577.73	\$ 2,112.80	\$ 26.41
47	\$ 56,305.56	\$ 4,692.13	\$ 2,165.60	\$ 27.07
48	\$ 57,699.24	\$ 4,808.27	\$ 2,219.20	\$ 27.74
49	\$ 59,155.20	\$ 4,929.60	\$ 2,275.20	\$ 28.44
50	\$ 60,632.04	\$ 5,052.67	\$ 2,332.00	\$ 29.15
51	\$ 62,150.40	\$ 5,179.20	\$ 2,390.40	\$ 29.88
52	\$ 63,689.64	\$ 5,307.47	\$ 2,449.60	\$ 30.62
53	\$ 65,291.16	\$ 5,440.93	\$ 2,511.20	\$ 31.39
54	\$ 66,913.56	\$ 5,576.13	\$ 2,573.60	\$ 32.17
55	\$ 68,598.36	\$ 5,716.53	\$ 2,638.40	\$ 32.98
56	\$ 70,304.04	\$ 5,858.67	\$ 2,704.00	\$ 33.80

Step	Annual	Monthly	Bi-Weekly	Hourly
57	\$ 72,072.00	\$ 6,006.00	\$ 2,772.00	\$ 34.65
58	\$ 73,860.84	\$ 6,155.07	\$ 2,840.80	\$ 35.51
59	\$ 75,711.96	\$ 6,309.33	\$ 2,912.00	\$ 36.40
60	\$ 77,604.84	\$ 6,467.07	\$ 2,984.80	\$ 37.31
61	\$ 79,539.24	\$ 6,628.27	\$ 3,059.20	\$ 38.24
62	\$ 81,536.04	\$ 6,794.67	\$ 3,136.00	\$ 39.20
63	\$ 83,574.36	\$ 6,964.53	\$ 3,214.40	\$ 40.18
64	\$ 85,654.44	\$ 7,137.87	\$ 3,294.40	\$ 41.18
65	\$ 87,796.80	\$ 7,316.40	\$ 3,376.80	\$ 42.21
66	\$ 90,001.56	\$ 7,500.13	\$ 3,461.60	\$ 43.27
67	\$ 92,247.96	\$ 7,687.33	\$ 3,548.00	\$ 44.35
68	\$ 94,556.76	\$ 7,879.73	\$ 3,636.80	\$ 45.46
69	\$ 96,927.96	\$ 8,077.33	\$ 3,728.00	\$ 46.60
70	\$ 99,361.56	\$ 8,280.13	\$ 3,821.60	\$ 47.77
71	\$ 101,816.04	\$ 8,484.67	\$ 3,916.00	\$ 48.95
72	\$ 104,374.44	\$ 8,697.87	\$ 4,014.40	\$ 50.18
73	\$ 106,974.36	\$ 8,914.53	\$ 4,114.40	\$ 51.43
74	\$ 109,657.56	\$ 9,138.13	\$ 4,217.60	\$ 52.72
75	\$ 112,403.16	\$ 9,366.93	\$ 4,323.20	\$ 54.04
76	\$ 115,211.16	\$ 9,600.93	\$ 4,431.20	\$ 55.39
77	\$ 118,081.56	\$ 9,840.13	\$ 4,541.60	\$ 56.77
78	\$ 121,035.24	\$ 10,086.27	\$ 4,655.20	\$ 58.19
79	\$ 124,071.96	\$ 10,339.33	\$ 4,772.00	\$ 59.65
80	\$ 127,171.20	\$ 10,597.60	\$ 4,891.20	\$ 61.14
81	\$ 130,353.60	\$ 10,862.80	\$ 5,013.60	\$ 62.67
82	\$ 133,598.40	\$ 11,133.20	\$ 5,138.40	\$ 64.23
83	\$ 136,947.24	\$ 11,412.27	\$ 5,267.20	\$ 65.84
84	\$ 140,358.36	\$ 11,696.53	\$ 5,398.40	\$ 67.48
85	\$ 143,873.64	\$ 11,989.47	\$ 5,533.60	\$ 69.17
86	\$ 147,471.96	\$ 12,289.33	\$ 5,672.00	\$ 70.90
87	\$ 151,153.56	\$ 12,596.13	\$ 5,813.60	\$ 72.67
88	\$ 154,939.20	\$ 12,911.60	\$ 5,959.20	\$ 74.49
89	\$ 158,808.00	\$ 13,234.00	\$ 6,108.00	\$ 76.35
90	\$ 162,780.84	\$ 13,565.07	\$ 6,260.80	\$ 78.26
91	\$ 166,857.60	\$ 13,904.80	\$ 6,417.60	\$ 80.22
92	\$ 171,017.64	\$ 14,251.47	\$ 6,577.60	\$ 82.22
93	\$ 175,302.36	\$ 14,608.53	\$ 6,742.40	\$ 84.28
94	\$ 179,691.24	\$ 14,974.27	\$ 6,911.20	\$ 86.39
95	\$ 184,163.16	\$ 15,346.93	\$ 7,083.20	\$ 88.54
96	\$ 188,780.76	\$ 15,731.73	\$ 7,260.80	\$ 90.76
97	\$ 193,502.40	\$ 16,125.20	\$ 7,442.40	\$ 93.03
98	\$ 198,327.96	\$ 16,527.33	\$ 7,628.00	\$ 95.35
99	\$ 203,299.20	\$ 16,941.60	\$ 7,819.20	\$ 97.74
100	\$ 208,374.36	\$ 17,364.53	\$ 8,014.40	\$ 100.18
101	\$ 213,574.44	\$ 17,797.87	\$ 8,214.40	\$ 102.68
102	\$ 218,919.96	\$ 18,243.33	\$ 8,420.00	\$ 105.25
103	\$ 224,390.40	\$ 18,699.20	\$ 8,630.40	\$ 107.88
104	\$ 230,006.40	\$ 19,167.20	\$ 8,846.40	\$ 110.58
105	\$ 235,747.20	\$ 19,645.60	\$ 9,067.20	\$ 113.34
106	\$ 241,633.56	\$ 20,136.13	\$ 9,293.60	\$ 116.17
107	\$ 247,665.60	\$ 20,638.80	\$ 9,525.60	\$ 119.07
108	\$ 253,863.96	\$ 21,155.33	\$ 9,764.00	\$ 122.05
109	\$ 260,208.00	\$ 21,684.00	\$ 10,008.00	\$ 125.10
110	\$ 266,718.36	\$ 22,226.53	\$ 10,258.40	\$ 128.21
111	\$ 273,395.16	\$ 22,782.93	\$ 10,515.20	\$ 131.44
112	\$ 280,238.40	\$ 23,353.20	\$ 10,778.40	\$ 134.73
113	\$ 287,247.96	\$ 23,937.33	\$ 11,048.00	\$ 138.10



#ACITYELEVATED

DEPARTMENT PROJECTS

SCHEDULE UPDATES

April 2021

CITY CLERK



CITY CLERK'S OFFICE PROJECT SCHEDULE April 2021

- **Records Indexing**
 - Records inventory and clean up – COMPLETE
 - Laserfiche user-friendly clean up – IN PROGRESS
- **Public Records Requests for the Month of March**

Public Records Requests for the Month

Requestor	No. of Requests	Date Received	Response Date	Response Update	Status	Staff Time Allocated
R. Vejar	3	Mar 1, 2021	Mar 11, 2021		Complete	1 hr
N. Aquino	6	Mar 1, 2021	Mar 11, 2021		Complete	1 hr
H. Choate	1	Mar 2, 2021	Mar 2, 2021		Complete	.5 hrs
A. McGloin	3	Mar 4, 2021	Mar 8, 2021		Complete	1 hr
L. Corbet	5	Mar 5, 2021	Mar 8, 2021		Complete	1 hr
J. McNeil	3	Mar 9, 2021	Mar 9, 2021		Complete	1 hr
G. Sonstein	4	Mar 9, 2021	Mar 16, 2021		Complete	1.5 hr + legal time
S. Kim	1	Mar 11, 2021	Mar 25, 2021		Complete	.75
B. Young	1	Mar 18, 2021	Mar 18, 2021		Complete	.75 hr
J. Perrick	1	Mar 21, 2021	Mar 29, 2021		Complete	.75 hr
S. Kokonas	2	Mar 23, 2021	Mar 31, 2021		Complete	1.5 hrs + legal time
A. Kapanicas	3	Mar 24, 2021	April 5, 2021	April 20, 2021	Complete	1.5 hrs + legal time
A. Kapanicas	1	Mar 24, 2021	April 5, 2021	April 20, 2021	Complete	1 hr + legal time

Requestor	No. of Requests	Date Received	Response Date	Response Update	Status	Staff Time Allocated
A. Kapanicas	2	Mar 24, 2021	April 5, 2021	April 20, 2021	Complete	.50 hr + legal time
J. Woolf	1	Mar 26, 2021	Mar 29, 2021		Complete	.75 hrs
J. Dillon	1	Mar 27, 2021	Mar 29, 2021		Completed	.50 hrs.
A. Kapanicas	1	Mar 30, 2021	April 12, 2021		Completed	1.5hrs + legal time

Extended Time Required Public Records Requests

Requestor	No. of Requests	Requested Documents	Date Received	Response Update	Status	Staff Time Allocated	Costs Associated
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Monthly Totals for December

No. of Requests	No. of Completed Requests	Staff Time Allocated
39	39	16.5 hrs

COMMUNITY DEVELOPMENT



COMMUNITY DEVELOPMENT UPDATE April 2021

- Housing Element Update – Kick-off meeting was held March 18
 - A contract modification will be brought to Council in May to include some additional items covered by the grant funding.
 - Site selection process has been completed and program discussions are underway
- Ordinance Updates
 - Accessory Dwelling Unit Ordinance will be included in the Housing Element Update to comply with State law – will be updated utilizing SB2 funding,
- Storage Moratorium – Set to expire October 2021.
 - Staff is presenting ideas for discussion at Council May 4, and will bring back items accordingly
- MSHCP – Western Riverside County Multiple Species Habitat Conservation Plan
 - Several DBESPs for projects have been submitted for review.
 - Fee update adopted in April takes effect July 1, 2021.
- Planning Commission
 - The next Planning Commission meeting will be May 11, 2021.
- SB2 - Grant application
 - GRANT AWARDED: LEAP Grant funding (round two of SB2 funding) in the amount of \$150,000. Contract is executed and funds available for the Housing Element Update
 - GRANT AWARDED - \$160,000. Contract is executed and funds will be available for the Housing Element Update.
 - First reimbursement to be submitted in May.
- SCAG
 - Applied for Sustainable Communities Grant \$1.25M. Grant awards will be announced May 2021.
- Code Enforcement – recruitment has closed for Code Enforcement Officer position
- Building and Safety Department Data
 - <http://www.ci.beaumont.ca.us/DocumentCenter/View/2428>



Project Status Report

Project Number	Date Submitted	Applicant	Project Location	Project Description	Project Status	Anticipated PC Hearing Date	Anticipated CC Hearing Date
07-ENV-001		Legacy Highlands SP	s/o SR 60 w/o Beaumont Ave.	Court required remedy of EIR deficiencies	PRDEIR available for public review and comment through 1/28/21		
CUP2021-0056	March 2021	Jacob Bell	945 E. 6th Street	Automotive Repair	Review Complete	5/2021	
CUP2021-0057	April 2021	Artashes Balyan	1691 E. 6th Street	Recycling Center	Review Complete	5/2021	
PP2020-0317	10/12/2020	John Dykes McClure Machine	North side of 1st Street, East of Viele	17,000sf concrete tilt-up industrial building	Environmental under review	Summer 2021	NA
SP2019-0003, PLAN2019-0283, PLAN2019-0284, ENV2019-0008	04/08/2019	JRT BP 1LLC	West of Jack Rabbit Trail, south of SR-60	Annexation, Specific Plan, GPA, EIR for development of 622 acres	Kick-off meeting 5-2-2019 NOP under review, scoping meeting held 09/17/20, meeting with wildlife agencies 1/21/21	2021	2022
CUP2109-0033&34 PP2019-0209	06/03/2019	Jaswinder Singh Sondh	NWC Pennsylvania Ave & I-10	Proposed gas station, C-market with alcohol sales, quick service restaurant and car wash	Staff review of proposed revisions, CEQA review, CalTrans Issues		NA
ENV2019-0009	07/18/2019	ASM Beaumont Potrero Logistics	s/o SR 60 e/o Hidden Canyon just west of Potrero	Industrial development ~500K sf, would require annexation for small piece of land & entitlement process (ASM)	NOP/EIR Scoping Meeting held June 4, 2020, DEIR being prepared, access issues being addressed	2021	2021
PP2019-0222 PM2019-0006 CUP2019-0037 & 38	07/30/2019	Ari Miller, Santiago Holdings	NWC Beaumont Ave & Oak Valley Pkwy	Retail center w/possible grocery anchor, drive-thru restaurants, retail & gas station	Staff review, possible increase to anchor tenant pad	2021	NA
CUP2020-0049 & PP2020-0280	05/12/2020	Ali Harb	655, 675 & 695 Highland Springs	Remodel and new construction	Resubmittal, scheduled for DRC 1/7/21, MND being prepared	May 2021	NA



CUP2020-0052	08/04/2020	Carrie Long	60 S. Palm	Pet Resort (Kennels & related facilities)	Working out easement issues and improvements with PW	NA
PLAN2020-0544	12/2/2020	Terra-Gen	248 Viele	Battery Storage Facility	Formal application received, DRC 4/29/21	
PLAN2020-0550	12/11/20	Land Engineering Consultants	SWC Oak Valley Pkwy & Beaumont Ave.	2-Story Medical Office building with subterranean parking	Staff review - preliminary submittal	
PLAN2020-0548	12/10/20	TAIT	449 E. 4th Street	Re-use of Denny's building	Staff review- preliminary submittal	
CUP2020-0055	12/11/20	Zendejas	w/s of Beaumont Ave., s/o 1st Street	Zendejas drive-thru restaurant	DRC complete, pending ADA discussion	May/June 2021
CUP2020-0045	03/27/2020	Ramona's Mexican Restaurant	Ramona's Mexican Restaurant	Ramona's Custom Brews	Comments sent to applicant, pending revisions, On Hold per applicants request	NA
CUP2017-0001	05/24/2017	Colorado River Mobile Homes, LLC	36805 Brookside Ave.	Brookside RV Storage	Continued at applicants request	Continued indefinitely per applicants request

Inquiries/Discussions/Not Filed

Location	Description
North side of Xenia between 6th and 8th	Market rate, multi-family apartment project 100+ units proposed
Oak Valley Parkway & Golf Club Drive	Restaurants & Retail Center
E/S of Potrero N/O SR 60 (Denley)	Mixed use development with residential, commercial & retail SP, EIR & Tract Maps required
South of 1st Street at termination of Viele including property to the west and south	Mixed use development with residential, commercial/retail and possible industrial on outer edge. Annexation, GPA, SP, EIR & Tract Maps required
Beaumont Avenue & 1st Street	38-acre mixed use development with apartments, modular homes & retail/commercial - would require GPA, SP, Tract Map, MND or EIR (Thrifty Oil)
East side of SR79 south of the City limits	~350 acres, request may include annexation for development of industrial and business park



South side of 3rd Street west of Beaumont Avenue, East of Euclid Avenue

6 industrial buildings, 3 for warehouses and 3 for multi-tenant commercial use

Item 16.



COMMUNITY SERVICES_TRANSIT



COMMUNITY SERVICES-TRANSIT April 2021

Recreation

Upcoming Events

- Drive-In Movie Night – April 2nd at 7:30pm
 - Movie shown – “Hop”
 - 60 cars with families participated
 - Coordinating with BCVPRD
- New Recreation Software launched for online registration of events – beaumontca.recdesk.com

Ongoing Programs (In-person)

- Senior meals drive-through handout (in partnership with Family Services Association)
 - Every Thursday at 10:00 am – Beaumont Civic Center (moved to accommodate vaccine clinic)
 - Thursday, April 1, 2021: Easter Cookie and Ice cream given by the Easter Bunny to each senior. Free masks to all who received meals. Completed, 50 meals given out
- COVID vaccine clinic
- Chair Yoga: Beginning: May 11 – every Tuesday & Thursday at City Hall Gym
- Gentle Yoga: Beginning: Wednesday, May 12 At the CRC

Virtual Programs (Online)

- Fit after 50 exercise classes – Every Monday and Wednesday at 9:15 a.m.
- E-Sports league – online gaming league/competition – April 2nd – On going
- Chalk your Walk Challenge: April 5-9. Contest Winner: Caitlin Dunn
- April Spotlight: Virtual Programming
- Weekly Challenge: Earth Day April 22. Color contest
- Earth Day & Arbor Day: FREE Seed packets for planting – Sports Park 4/26/21

Spotlight on Social Media

- Employee Spotlight- Richard Conde, Bldg & Grounds maintenance worker
- Service Spotlight- Landscaping
 - Landscaping Stetson Park upgrade project
- Park Spotlight – Pocket Parks

Parks

Nicklaus Park

- Restrooms opened to public – April 12th
- Gates at dog park scheduled to be replaced – In-Progress
- Tree Inventory (for future tree trimming) - Complete

Mt. View Park (Sundance)

- Trimmed all palm trees – Complete
- Tree Inventory (for future tree trimming) - Complete

Wildflower Park (Sundance)

- Planting 50 new rose bushes
- Ribbon Cutting of new display board for Anna Hause Elementary students to display their artwork - Complete
- Tree Inventory (for future tree trimming) - Complete
- New mulch in and around rose bushes

DeForge Park (Seneca Springs)

- Restrooms opened to public – April 12th
- Soccer goal repaired
- Tree Inventory (for future tree trimming) - Complete

Fallen Heroes Park (Oak Valley Greens)

- Restrooms opened to public – April 12th
- Tree Inventory (for future tree trimming) - Complete

Stetson

- Removing dead plant material - Complete
- New plants (150) installed - Complete
- Large irrigation upgrade - Complete
- New sod – Complete
- Mulch scheduled for early May
- Tree Inventory (for future tree trimming) - Complete

Sports Park

- Restrooms opened to public – April 12th
- Tree Inventory (for future tree trimming) – Complete
- Main line break repaired and irrigation back on line
- Breakers for Football Field lights replaced

Stewart Park

- Restrooms opened to public – April 12th
- Remove concrete bleachers- In-progress
- Walk through with Edison for future project – Complete
- Pre Bid and Bid Opening for Pool and Pavilion Demolition Project – Complete

- Tree Inventory (for future tree trimming) – Complete
- Geotechnical survey contract awarded

Three Rings

- Installed 20 yards of playground mulch - Complete
- Tree Inventory (for future tree trimming) - Complete

Trevino Park

- Irrigation upgrade of 40 sprinkler heads and updating valves
- Tree Inventory (for future tree trimming) - Complete

Shadow Creek Park

- CDF clearing and weed abating drainage channel- Complete
- Tree Inventory (for future tree trimming) - Complete

Palmer Park

- Tree Inventory (for future tree trimming) - Complete

Grounds Maintenance

Rights-of-Way

- Graffiti Removal – Ten (10) locations
- Cherry Channel walking path irrigation replacement – underway
- Seneca Springs Pkwy clearing pine needles and debris in preparation for new mulch install

Open Space and City Owned Lots

- Three Rings Ranch Lift Station
 - Graffiti removal and homeless encampment clean up – Complete
- Weed Abatement Program
 - Coordinating with CDF – not available until May due to internal training program

Building Maintenance

Civic Center (includes public parking lot)

- Tree Inventory (for future tree trimming) – Complete
- Heating Unit in CM Office/City Clerk repaired

Fire Station 66

- Roof Weather guard sealant system – Complete
- Irrigation upgrade
- Sod installed
- AC Unit repaired, quote for new units being obtained

Police Department

- Enhance lighting in parking lot – In-Progress
- Obtaining quotes for minor roof repair to modular building
- Tree Inventory (for future tree trimming) - Complete

Chatigny Recreation Center

- HVAC System Upgrade Pre Bid Walk Through - Complete
- Tree Inventory (for future tree trimming) – Complete
- New drywall in elevator Mechanical Room after water leak – In-Progress
- Repurposed table and benches from pool to CRC
- New mulch installed at entry and around palm trees

Grounds and Building Maintenance Yard

- Alarm/Security System Upgrade to include camera system

Transit

Operations

- Route 3 resumed service on April 19th
- Free fare promotion continues

Updates

- S RTP
 - Public Hearing – April 20th – Complete
 - 1st draft narrative submitted to RCTC April 21st
- Bus wrapping project – 95% complete
- CHP inspection May 19th
- EV Charging Station use is increasing. March had the most usage so far: 37 unique drivers, charging for 126 sessions.

Spotlight on Social Media

- Employee Spotlight- Enrique Ybanez – Vehicle Maintenance Department

Capital Improvement Plan Projects

Stewart Park Project – 3.95M

- City Council approved conceptual plan January 19th
- Geotechnical survey contract awarded
- Historical Society requests two separate items in the park be preserved

- Council approved
- Asbestos Survey - completed
- Demolition Work of Pool and Pavilion Buildings
 - Bid opening – April 28th
- Meeting held with Water Odyssey
 - Contract awarded for design
- Street vacation of 10th Street
 - Scheduled for City Council approval

Rangel Park Ballfield Lights, Electrical and Playground - \$500,000

- Geotechnical engineering – complete
- Electrical engineering bids due May 5th

Playground Shade Covers Phase I - \$250,000

- Design completed – going to RFP
 - Wildflower Park – Phase I
 - Mt. View Park – Phase II

Fire Station Rehabilitation - \$250,000

- Re-roof project – complete
 - Final building inspection and approval - completed

Compressed Natural Gas Fueling Station

- So Cal Gas meeting to discuss tariff agreement – completed
- Presentation to Council coming soon.

Bus Shelter Project- Walmart

- RFP to be published on May 20th for demolition and construction of new facilities and amenities at Walmart.
- Request for PO going to Council May 20th to purchase bus shelters and amenities.
- Anticipate a presentation to Council to award the contract in July 2021

Grants

- Carl Moyer Program – SCAQMD - \$600,000
 - Application approved at January 15th meeting
 - Additional funds to be used for CNG station
- Prop 68 Per Capita Grant - \$177,952
 - Approved by City Council to apply for funding to improve Three Rings Ranch Park
- Circle 4 Tree Planting Grant
 - CaUFC (California Urban Forest Council) will provide the City approximately 70-100 15-gallon trees which will include stock and labor to ensure proper installation by volunteers and WCA, Inc (West Coast Arborist).

ECONOMIC DEVELOPMENT



ECONOMIC DEVELOPMENT

April 2021

RFPs Underway

Major Projects

Retail Market Analysis

- Work is underway with The Retail Coach
 - Retail Market Analysis Complete
 - Small Business workshop (Virtual) held on January 26th
 - City is promoting this service to all small businesses in the City
 - Site Profiles underway
 - Attraction is underway
 - Update to Council on May 4th, 2021

Covid-19 Response

- Back to Business Committee
 - Business Survey
 - Resident Survey
 - Business Outreach
 - Stay updated with State Guidelines and Reopening plans
 - COVID-19 Complaint Business Package
 - Small Business Grant Program – Round 2 funding has been distributed
- American Rescue Plan
 - Provides direct funding to each City in two payments
 - Reviewing eligible uses for these funds
 - Funds must be expended by 2024
- Major Employer Discussions
 - ICON is seeing a huge increase in orders and shipping
 - Wolverine has leveled out
 - CJ Foods and Rudolph Foods still operating
 - Priority Pallet is starting to recover
 - Amazon is fully operational
- Business Resource Information is available on City website
 - Reopening plan guidance docs for each industry
 - Disaster loans, Small business grants and Paycheck Protection Program links
 - Utility benefit info
 - Small business development assistance
 - Programs to help small business retool and adapt their business plan and strategy
- Beaumont Eats program – Supplies of barricades and Ez-ups are available to interested businesses through an application process.
- Revised sales tax projections and project absorption for FY21
 - Expand modeling on sales and property taxes for impacts from COVID-19

- Update recession indicator model with new datasets
- Legislative Review of State and Federal mandates and programs related to COVID-19
- Go-Biz Small Business Grant Program (\$25k) would expand by 4x if the State's budget passes as proposed. Info is available on the City business resource website.

Retail Recruitment Strategy

- Review of information and needs associated with establishment of the program
- Retail recruitment has changed, and the City's efforts must adapt to stay competitive
- Continue to review and come up with ideas on streamlining permit process
- Market Analysis to be completed 2Q 2021
- Working to revamp Economic Development portion of the website to include data and info site selectors and corporate execs are looking for

Economic Development Strategic Plan

- Partnership established with UCR for business and entrepreneur development
- Potential partnership with CVEP for business development and resource seminars
- Partnerships developed for datasets and review of statistics
 - UCR
 - Working on MSJCC
- Targeted Industry Groups
 - Fulfillment centers, high-tech manufacturing, additive manufacturing, healthcare, renewable energy sources, logistics technology clusters
 - Hotels, entertainment outlets, sit-down restaurants, retail businesses
 - Market Analysis will kickstart this effort using new datasets and industry matching
- Monthly workforce training events held each month on 2nd Thursday (suspended due to Covid-19)
- Focus has shifted towards Retail recruitment and Marketing functions for 2021

Downtown Campus/Facilities Master Plan Project

- Pending Downtown Specific Plan Update

Sales Tax and Property Tax Review

- Review and analyze quarterly sales tax and annual property tax revenues
- Make suggestions and action plans on results
- Targeted sectors, business outliers and discrepancies
- Growth projections
- Incorporate this data into the multi-year fiscal model and annual budget
- Property tax dataset from years 2000-2018 – completed
- Working through revenue models based on home sales and sales tax updates

Economic Fiscal Impact Model Review (part of General Plan Update)

- Review inputs and test model
- Run various test projects to determine calibration

Budget Modeling and Review

- Working with city manager to develop a robust and sound fiscal model based on a true data set that can be trusted
- The model will be able to project future revenues and growth projections to make better financial choices today

- Working on economic indicator review for downturn/recession planning opportunities
- Partnership with Claremont McKenna College Professor in Economics Dr. Keil
- Developing commercial /industrial absorption model with revenues
- Working on expense model per development type
- Recession indicator model
- New required revenues model under development, based on new fiscal forecast deficit in 2024
- Models being revised to account for COVID-19 effects
- Updating At-Risk Business Model to determine budget impacts of potential closures
- Recession Indicator Model previously created being reviewed to track leading indicators

Coordination with Multiple Departments on Projects

- Work on current / future projects, capital projects, Capital Improvement Plan, Design Review Committee, review of Planning applications and projects
- Serve as city liaison for private industry for each city department

Economic Development Committee – Next meeting April 14, 2021

- Update from Retail Coach on work completed and attraction efforts

Lobbyist Services

- Track legislation, lobby on city's behalf, gain access to funding and grants
- Coordinates meetings with City Council, staff and legislators or key department staff in CA or DC
- Working with Townsend on funding opportunities and availability
- 2021 Legislation Session tracking has begun
- Tracking State and Federal mandates and funding programs related to Covid-19
- Priority projects identified as Potrero Interchange Phase II and Pennsylvania Ave widening for potential infrastructure bills
- Potrero Interchange Phase II has made Congressman Ruiz's short list for submittal to the Transportation Committee for hopeful inclusion in the American Jobs Plan

Foreign Trade Zone

- Working with City of Palm Springs to potentially expand their zone to include Beaumont
- Develop strategy to work through US Customs to get the approval of alternative site framework application
- Working on next steps. Palm Springs has not made this a top priority.
- A path forward has been determined but will require community support (\$) or funding from businesses intending to utilize the zone
- Staff is waiting on City of Palm Springs for information required for us to contact each business and discuss details

Business Retention and Expansion Events

- Programming next series of events and training seminars for post pandemic
- Partnering with UCR, RivCo EDA and Coachella Valley Economic Partnership
- Contact small companies in need of assistance and resources
- Retraining Program

Potrero Interchange PH2

- Meeting with Federal EDA to discuss funding availability
- Meeting with RCTC to discuss project status
- Submitted Grant / earmark request to Congressman Ruiz for inclusion in the American Jobs Plan

Cooperative Meetings with Beaumont Chamber of Commerce

- Discuss meeting/event schedule for remainder of year
- Partner to create value added business events

Current Development Projects (building now)

Sundance Corp Center

- Building 1 and 2 almost completed
- Building 3 under construction
- Working to fill remaining retail/in-line space

San Gorgonio Specific Plan

- Commercial property between 1st and 2nd streets from Kohls to Center Pointe (across from Walmart)
- Most attraction efforts are completed: Last Building is finalizing Deal with Sherman Williams
- Now Open: Planet Fitness and America's Best Contact & Eyeglasses
- Opening soon: Ulta Beauty (April 2nd)
- Building in progress are Cinema West, and
- Now open are Grocery Outlet, In-N-Out, Raising Cane's, Five Below, Jersey Mikes, El Mariachi Mexican Take-Out, Bright Now Dental, and AT&T Store
- Building is continuing and most tenants are still planning on opening this year, restrictions permitting.

Major Development Projects - Potential

Denley – Beaumont Village Specific Plan

- 300-acre specific plan with Commercial/Residential/ Mixed use project
- Between Oak Valley Parkway and SR 60, east of Potrero Blvd.
- Project meetings on-going as of January 2020
- Entire project is not included in BCVWD Urban Water Management Plan

Crossroads Logistics - Amazon

- Amazon construction completed and facility is now in operation
- Revised job numbers from Amazon is now 3,300 for this facility
- Initial projection was 750-1000 direct jobs created

Crossroads II Logistics (Hidden Canyon)

- McDonald Property Group is new owner
- Had multiple meetings with interested parties (developers and end users)
- Working to attract targeted industry groups per the EDSP
- Currently working on tenants for the 1 million sq. ft. building
- Have a lead on the second building as well

Commercial property at Oak Valley Parkway / Beaumont Avenue

- Working with landowner and broker to attract key tenants for the center
- Current leads are Farmer Boys, 7-Eleven with gas, drive-thru Starbucks

Commercial property at Oak Valley Parkway / Desert Lawn Drive

- Project submitted with new Gas Station and Drive Thru restaurant

Commercial property at Eighth Street / Highland Springs Avenue

- Small 1.5-acre site
- Current leads are 7-Eleven with gas and quick service restaurant

Other Project Leads

Miscellaneous leads for projects that I have worked on in the last 12 months. These range from simple phone calls to complete meetings with developers, architects and engineers.

- Commercial property at Oak Valley Parkway / I-10
- Commercial property at Oak Valley Parkway / Golf Club Drive
- Commercial property at Beaumont Avenue / 1st Street
- Commercial property at Pennsylvania / 6th Street
- Commercial property at Pennsylvania / 1st Street
- Commercial property at 6th Street and Xenia Avenue
- Residential property at 6th Street and Xenia Avenue

Other Items

- Hotel Incentive Package
- City Incentive Package/Policy
- Downtown Parking Ordinance
- Top 10 Commercial Broker meeting program
- Development of Chamber of Commerce partnership
- US EDA – Potrero PH2 Grant
- Food Truck Ordinance review
- Young Professional Networking Program
- Business of the month program with Chamber of Commerce has been created

FINANCE



FINANCE DEPARTMENT

April 2021

SPECIAL PROJECTS

- Tyler software
 - Payroll/HR Module – this project will consolidate payroll and HR within the primary City financial system. The City Council approved funding for this project at the December 15, 2020 meeting. This project will move forward with implementation contemplated by July or August 2021.
 - Fixed Assets Module – the City Council approved acquisition of this software at its December 15th meeting. This module will be implemented by July or August 2021.
 - Exploring alternative solution to Business License software needs
 - Tracking Accounts receivable through Tyler
- FEMA grant – application submitted successfully by the City. Costs associated with responding to the Covid-19 emergency are being tracked and documented. The City has submitted several projects and expects to submit additional projects in the first quarter of calendar 2021. Initial funding decisions should occur in April 2021.
- CARE (COVID Relief Fund) – the City is eligible to receive up to \$635K in Federal Funding through the State. As of November 19, 2020, City has received all of these funds. Following the receipt of Federal funds, the City Council created a General Fund supported Covid Relief program in the same amount as the Federal funds received.
 - Business Grant awards are complete and funds have been disbursed. The Council decided to move forward with a second round of funding. The second round of business grants was processed and payments issued on March 19, 2021.
 - Household assistance applications have been received and payments have been issued to qualifying households.
 - To date, approximately \$400K of these funds have been expended.
- 2020-21 Overhead Allocation and Transfers -overhead transfers completed for 1st, 2nd and 3rd quarters. Other transfers and position spits are completed through the second quarter.
- Internal Service Funds – the CC approved the creation of 4 new internal service funds.

This includes:

- Facility Maintenance/ Replacement Fund
- Vehicle Replacement Fund
- Equipment Replacement Fund
- IT Equipment Replacement Fund

These funds will be incorporated into the FY 2022 budget process with allocations to the funds from departments based on a utilization basis.

- New processes and procedures
 - Cal Card application has been approved. Policies and procedures are developed, and cards have been issued to the Wastewater team and to the Police Department as well as Administration. Cards have been issued to all departments that have requested access.

- Investment policy/ Investment process – the policy has been approved by City Council an investment advisor selected. The setup work in underway and active investment using the new advisor is expected to begin by early April 2021.
- Compliance with Developer Agreements
 - KHOV
 - Fee credits for prepaid Sewer Capacity DIF reconciled monthly (overpayment has been identified – refund to developer completed)
 - Park fee credits reconciled monthly
 - All Bond proceeds available to KHOV for 2016-4 have been paid
 - Pardee
 - Park fee credits and prepaid DIF reconciled monthly.
 - IA 8F bonds issued and proceeds sent to Pardee.
 - Pardee was billed and has paid prepayment for FY 2021 after DIF and TUMF credits were included in the computations.
 - Pardee requested and was paid the Paygo funds from IA 8F
 - RSI
 - Fee credits for prepaid Road and Bridge DIF completed
- Compliance with TUMF Credit Agreements
 - Pardee
 - Potrero Phase II
 - Pennsylvania Widening
 - Oak Valley Interchange
 - Lassen
 - 4th Street Extension (Grading)
 - Crossroads
 - 4th Street Extension (Paving)
- Processing of CFD Prepayment Requests
 - Program restarted October 2017
 - Process “dark” from 6/1 through 9/30 for tax roll assessment processing
 - Received #18 requests to date (two received in Oct 2020)
 - Received #17 full payoffs to date
 - Total \$279,224.03 for debt service
 - Total \$10,739.38 for future facilities
 - All funds transferred to Trustee for retirement of bonds
 - Bonds retired to date = \$136,000
- Management of Existing Bonds
 - Special District Report for Beaumont Finance Authority Due 01/31/21 – report completed
 - Next Debt Service Payment Due 03-01-21 - COMPLETED
- Refunding Bond Issuance completed for IA 8C and IA 17B
- Bonds issued for CFD 2019-1
- SCO Filings Due for FY20
 - All filings complete.
- AQMD FY20 filing – completed
- File FY 2020-21 City Budget with the County of Riverside – completed
- CFD Assessments Costs (Parks/Maintenance/Administration)
 - Reporting CFD Revenues Generated by IA – Recording in the general ledger as received from the County of Riverside

- Segregation of funds: #250 Administration, #255 Maintenance, #260 Public Safety, #265 Facilities, #510 Pay-Go, #840 Bond Debt Service, #850 BFA, #855 BPIA
- Demonstrate Means/Methods for CFD Fund Allocations – Working on best way to identify/capture data:
 - Park Maintenance
 - Parkway Maintenance
 - Public Safety
 - Other

This project will be re-initiated and considered as part of the cost allocation project this summer.

- IA 8F – Bonds issued – net proceeds approx. \$12.3 million sent to Pardee in compliance with settlement agreement and acquisition agreement. The vast majority is a return of DIF and TUMF fees.
- Pardee – pay go reimbursement request filed for Area 2016-2 – request of \$340,726 – Completed
- Pension Liability Analysis and Options – reviewed by CC at the March 3, 2020 meeting. The City Council allocated \$2.5 million in General Fund reserves to be used in addressing the pension liability. Staff will provide the CC with an overview of options including pros and cons of those options. This will be planned for July or August 2021.
- FY 21/22 Budget – Staff will begin the budget process for the FY 2021-22 budget beginning in January 2021. A proposed timeline was provided to the CC at its January 5, 2021 meeting. The budget will be presented to the CC at its April 20, 2021 meeting for initial review and direction.

ONGOING WORK

Bank reconciliations (all banks and trustee accounts)

**NOTE: Citibank Operating Account reconciled through 3/31/21
Payroll and Workers Comp Accts reconciled through 3/31/21
All other accounts reconciled through 3/31/21.
All Trustee accounts reconciled through 2/28/21**

Daily cash receipts data transfer into the general ledger

Weekly accounts payable processing

Timely recording of payroll and related entries

Review and reconciliation of all DIF monthly

Review, reporting of MSHCP and TUMF monthly

General ledger review and reclassifications as needed

Review of budget to actual activities

Monthly financial reporting to Finance Committee and City Council

Review and analysis of Project accounting monthly

- Review of project budgets to CIP
- Reconciliation of revenues recorded
- Reconciliation of expenses incurred with Public Works
- Reconciliation with general ledger entries

Development of Policies and Procedures (continuous)

Transparency

- General ledgers are redacted and uploaded
- Wilmington Trust statements are being held due to redaction issues-ONLY available to view over the counter
- Paid vendor invoices are scanned and uploaded to portal within reasonable time frame
- Bank statements and reconciliations uploaded through January 2021
- All Bond fund requisitions are redacted and uploaded

UPCOMING PROJECTS

Business license program management

Cost Allocation – need to update for both grant indirect rate purposes and for fee adjustments

Inventory management – for equipment this will be updated during the summer of 2021 using the new Fixed Assets module

Travel Policy – needs to be created

Further Automation of Accounts Payable and Accounts Receivable processing

A complete review of all financial policies will be undertaken during FY 2021 to determine missing elements and needed updates.

GRANTS

The Community Development Department took on the task of tracking all grants received by the City and coordinated with the Finance Department. A complete listing of existing Grants and projected Grants was provided to the Finance Committee and City Council in June 2020. This listing will be updated and maintained.

INFORMATION TECHNOLOGY



INFORMATION TECHNOLOGY APRIL 2021

Tyler Upgrades – IN PROGRESS

- Tyler App for Public Utility payment - Completed.
- New EMV machines replaced with new processor- Completed.
- Customer Service Portal Live for Public to pay for permits over web – Completed.
- New Payroll Software – In progress

Wastewater Plant –IN PROGRESS

- Looking at for better access to SCADA.
- New Internet Upgrade and phones system Install – In progress

CAD\RMS System for Public Safety (PD)– IN PROGRESS

- NG911 ATOS install and testing
- New Internet line for Riv Co installed
- Additional vehicle retrofit with CAD access.
- Vehicle Location Service being tested.

Albert Chatigny Community Center AC Controls

- Testing new AC controls with Directive from Parks & Rec.

IT Strategic Plan – IN PROGRESS

- Creating an IT strategic plan for City Manager.
- Looking at efficient ways to save city money on telco services.
- Provide GIS assessment -added to Budget request.
- Identify needs for City of Beaumont post Covid-19. Will include in strategy.
- Looking at options to bring a third party for holistic assessment of needs.
Meeting to discuss budget and ongoing projects to align to Beaumont's vision.

Zoom Meetings – IN PROGRESS

- Continue to use due to covid-19 restrictions.
- Completed closed session Zoom Room.

PUBLIC INFORMATION



PUBLIC INFORMATION PROJECTS UPDATE April 2021

Item 16.

Projects

- Revised the monthly Beaumont Breeze in eNewsletter
 - Name change due to Four Seasons Newsletter being of a similar name
 - Next special print edition coming out in July to focus on parks and rec

- National Bike Month
 - Monthly events/challenges
 - May 1 | Small Business Saturday Ride
 - May 2 - 8 | Star Wars Ride - Tie Fighter Challenge
 - May 9 - 15 | Ride Where the Pros Ride
 - May 16 - 22 | Design a helmet contest
 - May 21 | Bike to Work Day
 - May 23 - 30 | Bike Scavenger Hunt
 - Bike Month Bingo | all month!
 - Bike safety video with police department
 - Social media engagement
 - Visit BeaumontCa.gov/Bike for details

- Branding Phase 2
 - Initiated project with JPW Communications for design of secondary branding elements
 - Draft designs will be presented to Council in May
 - Project estimated to be complete by June
 -

- Advertising/Misc. Outreach
 - Mayor's Minute videos – monthly
 - New electronic signboard – updating as needed
 - In-person classes at the CRC – yoga and Fit after 50
 - CIP project updates
 - COVID-19 Business Assistance

- City Hall Renovations Paint and Landscaping
 - Colors chosen for exterior paint
 - Landscape palette designed – mimics Sundance

Social Media Followers

*What is the Difference Between **Likes** and Follows? ... A Like is a person who has chosen to attach their name to your Page as a fan. A **follower** is a person who has chosen to receive the updates that you post in their news feed (subject to the Facebook algorithm of course).*

- Facebook

- City Account – 8,796 Followers (+508 in April)
 - 104 individuals Direct Messaged (DM) us in 2020
 - Highest performing post in April: RivCo meets Orange Tier
 - Reach: 3,500
- Parks and Recreation – 1,000 Followers (+58 in April)
 - Highest performing post in April: Chalk Your Walk entries
 - Reach: 1,200
- Transit – 278 Followers (+25 in April)
 - Highest performing post in April: Employee Spotlight – Meet Enrique
 - Reach: 97
- Twitter
 - 2,628 Followers
- Instagram
 - 3,246 Followers
- Nextdoor
 - 11,790 Followers
 - 51% of Beaumont households

Misc.

- eNewsletter/ News releases
 - 3,178 registered contacts
- Utility bill inserts – 18,000 accounts
- Notification sign-ups
 - calendar of events - 1,633
 - City Council – 747
 - EDC – 229
 - FAC – 161
 - Planning Commission – 593
 - Construction Updates – 1,259
 - Homepage news - 202

Local Events

May 11 – 12 | Blood Drive at Chamber of Commerce

May 15 | Car show at Noble Creek Park

May 21-23 | Citywide Yard Sale

June 4 | Cherry Jubilee and Gift Basket Raffle

PUBLIC WORKS



PUBLIC WORKS UPDATE April, 2021

- Pavement Rehabilitation
 - Project Notice of Completion accepted by CC September 1st.
 - Engineering currently in planning stage for FY 20/21 Pavement Management Program.
 - ~~Staff to bring list of proposed streets to CC on 04/20.~~
 - Staff preparing bid package based on preliminary streets list presented to CC on 04/20 and feedback obtained therein.
 - Anticipated bid release in May and awarding of contract in July.

- Sewer System Master Plan
 - Data request from Consultant has been completed and fulfilled.
 - Mesa Lift station survey is complete, consultant preparing accurate “as-built” record drawings and is at 95% development.
 - City-wide Hydraulic Model initial draft has been reviewed and new development projections are being loaded.
 - Lift Station assessment draft has been reviewed and comments provided.
 - Population and development projections are complete.
 - Data collection and assessment of Wastewater System is complete.
 - System wide condition/capacity assessments are complete.
 - Capital Improvement Plan Development is 95% complete.
 - Upon completion, staff will schedule CC item and/or workshop to discuss with Council. Anticipated CC workshop end of June/early July.

- 2020 Mid-Year Street Maintenance and Rehabilitation Project
 - In coordination with CC item from 09/01 regarding allocation of bond proceeds, staff has prepared a bid package to rehabilitate several City streets, primarily in the downtown area.
 - Staff has worked with Contractor and added Beaumont Avenue rehabilitation from Cougar to Brookside, as well as Grace Avenue from 1st Street to 3rd Street within existing budget.
 - Grace has been completed
 - Beaumont Ave. construction paving will be completed by 04/02
 - ~~Match has commenced construction and will be complete with all streets receiving overlay, mill and overlay, and leveling course early 2021. Streets identified for slurry seal will be delayed until March/April in order to target warmer weather and ensure maximum adhesion and longevity.~~
 - Pavement rehabilitation is complete. Minor punch list items and striping remain.

- Highland Springs Interchange
 - Cooperative Agreement with the City, RCTC, and Banning for the preparation of a Project Study Report (PSR) for the Highland Springs Interchange Project approved
 - RCTC is the lead in preparing the report with input from both the City of Beaumont and Banning.
 - Funding for the PSR from WRCOG settlement.
 - Updated Project Traffic Forecasting and Operational Analysis (TFOA) has been submitted to Caltrans.
 - The Preliminary Environmental Analysis Report (PEAR) has commenced. Expected completion is April 2021. (pending)
 - Completion of PSR is expected to be June of 2021.
 - Planning stages to keep project moving and facilitate next stage (Project Approval/Environmental Document, PAED) have been initiated.
 - Staff planning presentation on 05/18 to provide update with RCTC, as well as seek CC approval on first amendment to existing contract authorizing the PAED phase.

- Potrero Phase 2
 - Staff looking at potential further phasing of interchange ramp construction. Potential modifications include revising proposed 6 ramp interchange (4 on-ramps & 2 off-ramps) to a 4-ramp interchange and delaying additional 2 on-ramps to future date in which traffic volumes warrant construction.
 - Staff looking at other grant opportunities, potential funding solutions.
 - ~~Trade Corridor Enhancement Program (TCEP) grant application has been submitted. \$33M has been requested and awardment of grant expected to be by end of calendar year.~~
 - ~~Announcements read on 11/16/20. City was unsuccessful.~~
 - ~~Staff now back to pushing Caltrans for phased approach.~~
 - Staff in active correspondence with Caltrans management to discuss phased approach. Approach to path forward anticipated soon.
 - Focus meeting with Caltrans on 04/09 to lay out specific steps in order phase the ramp construction as noted in first bullet item.
 - Direction has been provided to determine feasibility of modified approach.
 - Traffic Analysis to be revised to ensure modified approach will operate at appropriate level of service for 15 years

- Highland Springs Signal Timing
 - ~~Staff working with the City of Banning on an MOU to coordinate signal timing of 6 intersections along Highland Springs to help alleviate congestion.~~
 - ~~Submittal to Caltrans will be first week of April~~
 - Concurrence has been received, and three-party MOU between Banning, Beaumont, and Caltrans was approved at the 12/01/2020 CC meeting.
 - Maintenance agreement between Beaumont and Banning was approved at the 12/15/2020 CC Meeting.
 - Kick-off meeting has been held and staff currently preparing proposed timing for affected intersections for Caltrans review.
 - Proposed timing has been submitted to Caltrans for review. Comments expected within 2 weeks.

- Pennsylvania Avenue Widening
 - Technical studies have been prepared, which now includes completion of Traffic Impact Analysis which needed to comply with Vehicle Miles Traveled (VMT) criteria.
 - Environmental consultant released to prepare CEQA document 06/20
 - Draft environmental document completed and under review.
 - Updated packages have been submitted to both UPRR and Cal Trans
 - Comments have been received and responded to.
 - Draft environmental document complete and pending public notification.

- Pennsylvania Avenue Railroad Grade Separation ~ No Change
 - Consultant directed to perform cost analysis for Riverside County Flood Control District master plan storm drain improvements as part of project. Staff able to get Flood Control to authorize up to \$5.3M in current budget.
 - Proposed design allows improvements to stay within Pennsylvania Ave., potentially avoiding significant environmental constraints associated with realigning outside City right-of-way. Feasibility is being confirmed.
 - Consultant is working on the 35% plans, specifications, and engineering.
 - Current contract has limited consultants' obligation to 35% design. Staff is searching for additional funding to engage consultant to complete design.

- Pennsylvania Avenue Interchange ~ No Change
 - Staff has had several meetings lately regarding traffic analysis and future compliance with Vehicle Miles Traveled (VMT) guidelines.
 - Caltrans will allow City to be lead agency for environmental clearance which should help facilitate project.
 - Staff has been able to obtain Caltrans concurrence regarding project study radius and intersection identification. City will not be required to include projects outside of our jurisdiction. Additionally, the recently completed traffic model runs for our General Plan can be utilized for study horizon year data saving time and cost of additional modeling.
 - Traffic Operations Analysis Report (TOAR) being revised to include recent General Plan traffic model runs.

- West Side Fire Station
 - Consultant has submitted for third review of complete design package (Civil, Architectural, and Landscape) which has been reviewed and returned for minor corrections.
 - Several environmental studies and reports are currently underway, including:
 - Habitat Assessment and Constraints Analysis
 - Biological Resources Report
 - Determination of Biologically Equivalent or Superior Preservation (DBESP)
 - Jurisdictional Delineation
 - Staff currently flying Request for Qualifications (RFQ) in order to pre-qualify prospective bidders.
 - RFQ's have been submitted and are currently under staff review
 - Draft environmental document expected to be publicly noticed in May.

- Line 2, Stage 1 Drainage Project
 - Cooperative funding agreement was approved by CC on 09/01 and also approved from Riverside County Board of Supervisors
 - ~~Beaumont staff and Riverside County Flood Control (RCFC) interviewed the top 3 consultants the week of 09/14 - 09/18~~
 - Professional Services Agreement awarded to EXP at the 12/15/2020 CC meeting.
 - Contract has been executed and kick-off meeting set for 03/10.
 - Project has kicked off. Consultant initial step is to address any downstream limitations (Seneca wash) and identify potential mitigations.

- Second Street Extension
 - Phase 1 of project complete which included
 - Preliminary design
 - Preliminary cost estimate
 - Preliminary environmental assessment
 - Phase 2 of project kicked off as authorized by CC on 03/16/21 meeting.

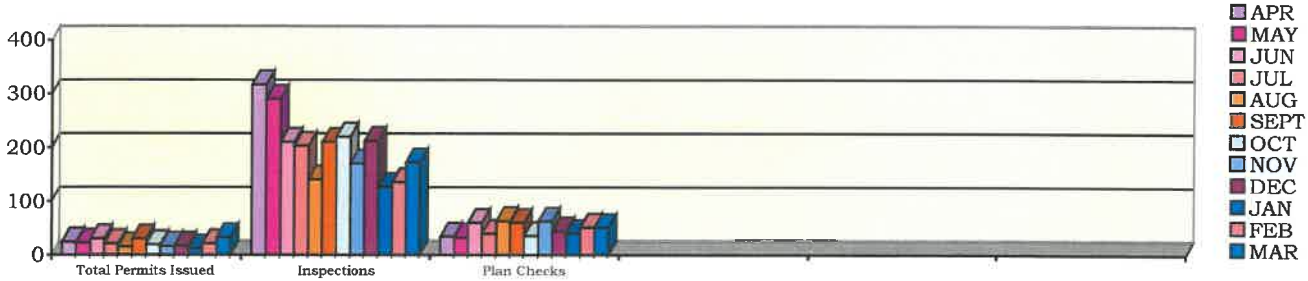
- By the Numbers ~ Running 12 month total of permits and inspections
 - Includes the following:
 - Encroachment permits issued.
 - Offsite improvement permits associated with residential developments issued.
 - Offsite improvement permits associated with commercial developments issued.
 - Commercial development inspections.
 - Residential development inspections.
 - Commercial development plan checks.
 - Residential development plan checks.



PUBLIC WORKS

MONTHLY PERMIT INFORMATION

RUNNING 12 MONTHS



	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	IAN	FEB	MAR
Permit Information												
Encroachment - Issued	24	22	31	19	12	22	14	9	14	7	21	24
Residential Improvements	0	0	2	1	3	4	5	6	0	3	0	8
Commercial Improvements	0	0	1	1	0	4	0	1	3	1	0	0
TOTAL	24	22	34	21	15	30	19	16	17	11	21	32
Inspections												
Commercial	183	106	79	97	53	109	86	73	35	48	31	40
Residential	134	184	106	106	87	101	134	97	177	78	104	132
TOTAL	317	290	185	203	140	210	220	170	212	126	135	172
Plan Checks												
Commercial	10	18	21	12	14	15	10	46	6	4	14	10
Residential	24	14	29	27	49	45	25	16	38	35	37	40
TOTAL	34	32	50	39	63	60	35	62	44	39	51	50

FY 20/21
 FY 19/20

This information is gathered from monthly reports and inspection records. Permits issued as of March 31, 2021.