# Town of Paradise Town Council Meeting Agenda 6:00 PM - February 14, 2023 

Town of Paradise Council Chamber - 5555 Skyway, Paradise, CA

Mayor, Greg Bolin
Vice Mayor, Rose Tryon
Council Member, Steve Crowder
Council Member, Steve "Woody" Culleton
Council Member, Ron Lassonde

## Meeting Procedures

Town Manager, Kevin Phillips
Town Attorney, Scott E. Huber
Town Clerk/Elections Official, Dina Volenski
CDD, Planning \& Onsite, Susan Hartman
CDD, Building \& Code Enforcement, Tony Lindsey Finance Director/Town Treasurer - Ross Gilb Public Works Director/Town Engineer, Marc Mattox Division Chief, CAL FIRE/Paradise Fire, Patrick Purvis Chief of Police, Eric Reinbold
Recovery \& Economic Development Director, Colette Curtis Human Resources \& Risk Management Director, Crystal Peters Information Systems Director, Luis Marquez
I. The Mayor is the Presiding Chair and is responsible for maintaining an orderly meeting. The Mayor calls the meeting to order and introduces each item on the agenda.
II. The Town staff then provides a report to Council and answers questions from the Council.
III. Citizens are encouraged to participate in the meeting process and are provided several opportunities to address Council. Any speaker addressing the Council is limited to three minutes per speaker - fifteen minutes per agenda item
A. If you wish to address the Council regarding a specific agenda item, please complete a "Request to Address Council" card and give it to the Town Clerk prior to the beginning of the meeting. This process is voluntary and allows for citizens to be called to the speaker podium in alphabetical order. Comments and questions from the public must be directed to the Presiding Chair and Town Council Members (please do not address staff.) Town staff is available to address citizen concerns Monday through Thursday at Town Hall between the hours of 8am and 5pm.
B. If you wish to address Council regarding an item not on the agenda, you may do so under Item 4, "Public Communication." Again, please fill out a card and give it to the Town Clerk before the meeting. State Law prohibits Council action on items not listed on a public agenda.

In compliance with the Americans with Disabilities Act (ADA) Compliance, persons who need special accommodations to participate in the Town Council meeting may contact the Town Clerk at least three business days prior to the date of the meeting to provide time for any such accommodation.

## 1. OPENING

1a. Call to Order
1b. Pledge of Allegiance to the Flag of the United States of America
1c. Invocation
1d. Roll Call
1e. Proclamation recognizing Senator Dianne Feinstein, Senator Alex Padilla and Congressman Doug LaMalfa for their assistance in securing funding for the Roe Road Project.

1f. Proclamation recognizing Alliance For Workforce Development.
1g. Special recognition is awarded to sworn and non-sworn police personnel and volunteers for their exemplary contributions to the department.

Police Officer of the Year: Officer Derek Archuleta
Civilian Employee of the Year: Support Services Supervisor Jeannette Huggins
VIP of the Year: Frank Dodini
PASH Volunteer of the Year: Richard Abbott
1h. Camp Fire Recovery Updates - Written reports are included in the agenda packet.
p6 Colette Curtis, Recovery and Economic Development Director Recovery Projects, Advocacy, Economic Recovery and Development, Communications and Emergency Operations.
p9 Marc Mattox, Public Works Director/Town Engineer - Infrastructure and sewer Update
p11 Tony Lindsey, CDD-Building and Code Enforcement - Code Enforcement Update
p17 Kate Anderson, Business and Housing Manager - Business and Housing Update

## 2. CONSENT CALENDAR

One roll call vote is taken for all items. Consent items are considered to be routine business that does not call for discussion.

2a. p19 Approve the Regular, January 10, 2023 and Special, January 17, 2023 meeting minutes of the Paradise Town Council.

2b. p26 Approve January 2023 Cash Disbursements in the amount of \$3,196,412.63

2c. p34 Declaring the attached itemized list of equipment from the Fire Department as surplus property; and, adopt Resolution No. 2023-04, "A Resolution of the Town Council of the Town of Paradise Declaring Certain Property to be Surplus and Authorizing Disposal Thereof".

2d. p38 Adopt Resolution No. 2023-05, "A Resolution of the Town Council of Town of Paradise accepting the work performed under the On-System

Culvert Repair Project (Contract No. 7301.CON) Performed by Escheman Construction Company."

2e. p41 Adopt Resolution No. 2023-06, "A Resolution of the Town Council of the Town of Paradise Amending and Re-Adopting Conflict of Interest Code for the Agencies and Departments of the Town of Paradise Which Incorporate by Reference the Fair Political Practices Commission's Standard Model Conflict of Interest."

2f. p48 Adopt Resolution No. 2023-07, "A Resolution of the Town Council of Town of Paradise Accepting the Work Performed Under the Off-System Culvert Repair Project (Contract No. 8408.CON) Performed by Allen Gill Construction, Inc."

2g. p51 Review and file the 2nd Quarter Investment Report for the Fiscal Year Ending June 30, 2023.

## 3. ITEMS REMOVED FROM CONSENT CALENDAR

## 4. PUBLIC COMMUNICATION

For matters that are not on the Council business agenda, speakers are allowed three (3) minutes to address the Council. The Town Council is prohibited from taking action on matters that are not listed on the public agenda. The Council may briefly respond for clarification and may refer the matter to the Town staff.

## 5. PUBLIC HEARINGS - None

## 6. COUNCIL CONSIDERATION

Action items are presented by staff and the vote of each Council Member must be announced. A roll call vote is taken for each item on the action calendar. Citizens are allowed three (3) minutes to comment on agenda items.

6a. p73 Review the updated Federal Advocacy Platform and provide comments to staff.

6b. p90 1. Consider concurring with the recommendation of the interview panel; and, 2. Appoint applicant Charles Homan to fill the existing vacancy on the Planning Commission (effective immediately with term to expire June 30, 2024; or, 3. Consider an alternative direction. (ROLL CALL VOTE)

6c. p92 1. Consider approving the formation of a public services sub-committee to consider input and requests for public services funding; and, 2. Appoint two Council members to the public services sub-committee. (ROLL CALL VOTE)

6d. p94 1. Consider reviewing and approving the proposed Inter-Municipal Agreement and authorize the Town Manager to execute following review and approval by the Town Attorney, City of Chico City Council and City Attorney; and 2. Authorize the Town Manager to approve minor adjustments to the Inter-Municipal Agreement as requested by the City of Chico during its review and consideration process; and 3. Direct staff to continue the next steps in the Paradise Sewer Project including supporting the City of Chico
in an application to the Butte Local Agency Formation Commission for the extension of wastewater treatment services to the Town of Paradise; or, 4. Provide alternative action. (ROLL CALL VOTE)

6e. p366 Upon conclusion of public discussion of this agenda item: 1. Consider establishing a standing committee of the Town Council entitled "Legislative Committee" and appoint two members of the Council to the serve on the committee, including setting policies and priorities of the committee; or, 2. Provide an alternative directive to Town staff.

6f. p368 1. Consider reviewing and filing the financial information provided by staff concerning the FY 2022-23 operating and capital budgets; and
2. Approve position control from 1.0 to 0.9 FTE for the Senior Accountant position; and
3. Approve position control from 0.6 to 0.9 FTE for the Administrative Assistant (Public Works) position; and
4. Approve the job classification of Engineering Intern and add this new position to the salary pay plan and position control; and
5. Approve the job classification of Accounting Analyst and add this new position to the salary pay plan and position control; and
6. Adopt Resolution No. 2023-__, "A Resolution of the Town Council of the Town of Paradise, California adopting the amended Salary Pay Plan for Town of Paradise Employees for the Fiscal Year 2022-2023; and
7. Approve staff recommended budget adjustments. (ROLL CALL VOTE)

6g. p458 1. Consider reviewing and approving the Memorandum of Understanding (MOU) with local non-profits for lot acquisition for affordable homeownership; and, 2. Adopt Resolution No. 2023-__ "A Resolution of the Town Council of the Town of Paradise Directing the Method of Purchase of Lots for the Construction of Affordable Housing and Making Findings Related Thereto." (ROLL CALL VOTE)

6h. p464 Provide direction regarding future spending of transient occupancy tax revenues.

## 7. COUNCIL INITIATED ITEMS AND REPORTS

7a. Council initiated agenda items
7a1. Discuss enforcement of professional landscapers blowing and leaving the leaves in the street. (BOLIN)

7b. Council reports on committee representation
7c. Future Agenda Items

## 8. STAFF COMMUNICATION

8a. Town Manager Report

- Community Development Director


## 9. CLOSED SESSION - None

10. ADJOURNMENT

| STATE OF CALIFORNIA ) |
| :--- |
| COUNTY OF BUTTE ) |
| I declare under penalty of perjury that I am employed by the Town of Paradise in |
| the Town Clerk's Department and that I posted this Agenda on the bulletin Board |
| both inside and outside of Town Hall on the following date: |
|  |
| TOWN/ASSISTANT TOWN CLERK SIGNATURE |

Town of Paradise
Council Agenda Summary
Agenda Item: 1(h)
Date: February 14, 2023

## ORIGINATED BY:

Colette Curtis, Recovery and Economic Development Director

## REVIEWED BY:

SUBJECT:
LONG TERM
Kevin Phillips, Town Manager
Monthly Recovery Update
Yes RECOVERY PLAN:

## COUNCIL ACTION REQUESTED:

1. None

## Background:

This report continues the Monthly Updates provided to keep the Town Council apprised of important developments related to the recovery of the Town of Paradise from the Camp Fire. Included in this update are items related to recovery projects, advocacy economic recovery and development, communications and emergency operations.

## Analysis:

## ECONOMC DEVELOPMENT

## Business Assistance Programs

- Business Investment Grant (BIG) Program
- 112 applications received during the application period.
- 15 applicants were selected through a lottery process. Application numbers were chosen at random by a number generator.
- Checks are being sent out as selected businesses return their required paperwork.
- Commercial Sign Removal Program
- Application period opened January $16^{\text {th }} 2023$.
- 2 applications have been received to date.


## Business Retention and Attraction

- Big Lots opened in the old Rite Aid Building on Dec. 1st.
- A national clothing retailer is planning to occupy the other side of the old Kmart building, next to Tractor Supply. Staff has been working with the development staff for the retailer.
- Paradise Brew Werks, a local microbrewery, is moving forward with plans to establish themselves in Town. They have acquired property on Skyway (old Big 5 Property).


## CDBG-DR Economic Development

- The Butte County allocation for CDBG DR Economic Development has been announced at $\$ 18.7$ million.
- The Notice of Funding Availability (NOFA) is expected to be released in March 2023, and we will have more information on what projects will be eligible.
- In preparation, the Town is working with our regional workforce partners on potential projects.


## RECOVERY

## Category 4 Tree Removal Program

- We opened the program to applicants on July 25th and received 577 applicants. This represents 1,014 acres of private property across the Town.
- The assessment Phase has been completed. Nearly 11,000 standing dead trees have been identified, tagged and catalogued for review by FEMA/CaIOES
- Phase 2 continues to be in Federal Environmental Review. The draft Environmental Assessment is now complete and in final review with FEMA.
- Tree cutting process would commence after full phase 2 approval of submitted tree inventory.
- We are finalizing the plan for tree removal and anticipate bringing that to council in March.


## Early Warning System

- The Early Warning System was fully approved in April 2022 and a contract was awarded in July 2022.
- Our contractor has ordered long lead-time materials and is working on coordinating utilities for each of the 21 sites.
- We are working with PPRD and PUSD on formal agreements for the towers which are on their property.
- We are working to survey tower sites in public right-of-ways to confirm locations.
- We are finalizing the power access in partnership with PG\&E. Materials will begin arriving in early March and we anticipate construction beginning soon after.


## Residential Ignition Resistant Retrofit Program

- Undergoing Federal Environmental Review. The draft Environmental Assessment is now complete and in final review with FEMA.
- All other Town required action items are complete
- We are in the middle of the procurement process for a lead management contractor to assist in finishing the phase 1 criteria and opening applications to the public by the end of March.


## Hazardous Fuels Reduction Program

- Undergoing Federal Environmental Review. The draft Environmental Assessment is now complete and in final review with FEMA.
- All other Town required action items are complete.


## Defensible Space Code Enforcement

- Undergoing Federal Environmental Review. The draft Environmental Assessment is now complete and in final review with FEMA.
- All other Town required action items are complete.


## Abatement Update

- We continue to move forward with the $\sim 100$ properties that are not compliant with the hazardous tree ordinance utilizing a complaint driven legal abatement process.


## COMMUNICATIONS

- TOP POP Events
- In order to build community in Paradise during the $5^{\text {th }}$ anniversary year after the Camp Fire, the Town is hosting 12 months of pop-up events around town.
- These events are a way to help acknowledge the progress and rebuilding over the last 5 years.
- Each month, different pop-up events will take place around town, with a local partner organization hosting the event.
- In January, the Paradise Equilibrium Center hosted the first TOP POP event, inviting residents to share their New Year's resolutions for the Town.
- Community Relations Committee (CRC)
- The CRC continues to meet monthly and has recently added new members representing the Gold Nugget Museum and Paradise Art Center.
- Upcoming Recovery Events
- Staff is planning a media event for the installation of the Early Warning System towers in January or February 2023.


## EMERGENCY MANAGEMENT

- A full scale EOC exercise is in the initial planning stages for Spring or early Summer 2023
o The exercise will involve the community and cooperator agencies
o A months long information and education campaign will precede the exercise
o The Early Warning System will be utilized as part of the exercise


## Financial Impact:

None.

## TOWN OF PARADISE

## Council Agenda Summary

Date: February 14, 2023
Agenda No. 1(h)
ORIGINATED BY: Marc Mattox, Public Works Director / Town Engineer
REVIEWED BY:
Kevin Phillips, Town Manager
SUBJECT:
Camp Fire Recovery Updates - Infrastructure

## COUNCIL ACTION REQUESTED:

1. None, written monthly update only.

## Background:

This report continues the Monthly Disaster Recovery Updates provided to keep the Town Council apprised of important developments related to the recovery of the Town of Paradise from the Camp Fire.

## Analysis:

## Road Rehabilitation

As previously covered in related Agenda Summaries and Updates, the Town of Paradise has secured funding from both FEMA and Federal Highways Administration for the purposes of road rehabilitation associated with Camp Fire damages from the fire itself, debris removal and tree removal operations. These projects cover all Town of Paradise publicly owned and maintained roadways.

A revised paving plan has been published here:
https://www.google.com/maps/d/u/0/viewer?mid=1w-PjuvtL5rmmOj EM-4IFaj7sV-YVRs\&\|=39.763511840651375\%2C-121.61120815000001\&z=13

This paving plan informs residents of which roads are expected to be paved in which calendar year. The plan will be updated frequently as actual field conditions change.

The first project in this series, Skyway between Crossroads and Westchester Way is nearing full closeout, anticipated to be considered by Council in March 2023.

Further, the Town has awarded a contract for about half of 2023's paving schedule, with the remaining half of work pending FEMA's review of the Town's Improved Project request.

## Paradise Sewer Project

## Efforts for Past Month:

- Previous Updates:
- The Central Valley Regional Water Quality Control Board (Regional Board) hosts meetings of the Sewer Regionalization Project Advisory Committee (SRPAC). The SRPAC last met on March 21, 2022 at the City of Chico council chambers and
finalized the first draft of the Principles of Agreement (POA). The POA served as a starting point for drafting an inter-municipal agreement (IMA) between Paradise and Chico to address treatment of Paradise wastewater at the Chico Water Pollution Control Plant. Information about SRPAC meetings, including agendas and meeting minutes, are at www. paradisesewer.com.
- The 30-day appeal period for the Final EIR closed on December 8, 2022. No appeals were filed.
- Continued to update the project's public website (www.paradisesewer.com).
- Continued working with City of Chico staff to finalize the draft IMA.
- Continued funding application efforts with the State and CDBG-DR.

Efforts for Next Month:

- Present the IMA to the Paradise Town Council on February 14 and Chico City Council on February 21 during regular Council meetings for their respective consideration.
- Continue funding application efforts and funding due diligence.

Town of Paradise
Council Agenda Summary
Agenda Item: 1(h)
Date: February $14^{\text {th }}, 2023$

ORIGINATED BY:
REVIEWED BY:
SUBJECT:
LONG-TERM RECOVERY PLAN:

Tony Lindsey, Community Development Director, Building \& Code Enforcement
Kevin Philips, Town Manager
Camp Fire Recovery Updates - Code Enforcement
No

## COUNCIL ACTION REQUESTED:

1. Code Enforcement Update

## Background:

The mission of the Code Enforcement Division is to promote and maintain a safe and desirable living and working environment. We help maintain and improve the quality of our community by administering a fair and unbiased enforcement program to correct violations of municipal codes and land use requirements. We work with residents, neighborhood associations, public service agencies, and other Town departments to:

- Facilitate voluntary compliance with Town codes.
- Empower community self-help programs.
- Develop public outreach programs.
- Establish community priorities for enforcement programs.


## Analysis:

Code Enforcement receives complaints of violations from staff and general community members. Each complaint is investigated and verified by our Officers.

Temporary Use Permits (TUPs) issued under Urgency Ordinance 612 as of $1 / 31 / 2023=256$ (Exhibit A):

- 37 - Parcels with RV Storage only
- 219 - Parcels permitted to occupy an RV (125 currently occupied)
- 20 - Accessory structures (Sheds, Shops, Non-habitable)
- 3-Months before Ordinance 612 expiration, informational notifications were distributed by certified and first-class mail to the current owners and emailed to all applicants. Information was also delivered to each site, either hand-delivered or posted. Notice attached. (Exhibit C)

RV Code Enforcement activity for the reporting period (Dec 22 ${ }^{\text {nd }}-$ Feb $2^{\text {nd }}$ ) (Exhibit B) :

- Occupied sites without TUPs - 36
- Occupied sites with TUP Violations - 1
- Compliance gained/RV cases closed - 11
- 6 RVs removed
- 5 Violations resolved (3 building permit issued)
- Civil Abatement Cases have been forwarded to Town Attorney - 43. Twenty-five cases have been resolved, and 18 remain eligible for action.

The Community Enhancement Outreach Team, consisting of Fire Prevention, Police, Housing, Disaster Case Managers (DCMs), and Code Enforcement staff, visited 25 RV sites. The team contacted 21 community members in January:

- 7 were tenants and did not own property
- 14 owner-occupied
- 0 purchased the property post-Camp Fire
- 9 supplied contact information to DCM staff

Other Code Enforcement Items:

- Abandoned Vehicle Authority abatements - 11
- Nine vehicles voluntarily abated
- Two vehicles Towed
- Complaints regarding waste and refuse, zoning, building without a permit, camping, fire hazards, vehicles, vending, no garbage service, grading, etc.

Fire Prevention is built upon the philosophy of three main objectives: Education, Engineering, and Enforcement. Fire Prevention is vital in the community and our continued economic development. Our defensible space and hazardous fuel management ordinance require property owners to keep their parcels fire-safe, whether they live in Town or not. The Fire Prevention staff performs weed abatement inspections on 11,100 parcels within our community.

Beginning April $1^{\text {st }}$, 2022, the Town started requiring property title transfers to obtain a Certificate of Compliance with our Defensible Space regulations. During January:

- Clearance requests received - 67
- First inspection compliance rate $-64 \%$
- Certificates issued - 54
- Land Surveyor's Certifications on file - 17

The following is the number of town-wide Defensible Space Program inspections completed as of $2 / 22 / 2023$ :

- Compliant - 7,733 (approx. 70\%)
- Non-compliant - 3,119 (not including active code enforcement cases)
- Code Enforcement Referrals for citation - 237 Active Code Cases
- 17 - Commercial parcels, 220 - Residential parcels

EXHIBIT A TUPs under ORD 612 1/31/2023


ㄷ. RV TUP STORAGE 37
(-2) RV TUP ISSUED 219, 125 ACTUALLY OCCUPIED

## EXHIBIT B TUP Violations 1/31/2023



January 31, 2023

MAILING LABEL

## *IMPORTANT INFORMATION $-2^{\text {nd }}$ NOTICE* <br> RV Temporary Use Permit - Town of Paradise Urgency Ordinance No. 612

We are contacting you again because a temporary recreational vehicle (RV) permit was issued for the property referenced above following the 2018 Camp Fire. With the expiration of the Urgency Ordinance scheduled for April 30, 2023, we wanted to make sure each permit holder was aware of the following important dates:

- August 10, 2021 - Paradise Town Council extended the deadline for the Urgency Ordinance, and the RV permits, until April 30, 2023.
- January 1, 2023 - The new 2022 California Building Codes became effective statewide. Rebuild submittals will need to comply with the new 2022 building codes.
- April 30, 2023 - The Urgency Ordinance and temporary RV permits will expire. A rebuild permit for a permanent dwelling must be issued to continue to keep an RV on the property beyond this date.

On the back of this notice are rebuilding resources if you need assistance. If you would like to speak to someone in person, our Business \& Housing Division staff at Town Hall (5555 Skyway) are available MondayThursday to help explain different rebuilding programs that you may be eligible for. In addition, the State's ReCoverCA rebuilds grant program has representatives available at the Building Resiliency Center ( 6295 Skyway) on the $1^{\text {st }}$ and $3^{\text {rd }}$ Wednesday of every month, from 9:00 a.m. to 2:00 p.m., to meet with residents interested in their grant program.

## We want to hear from you!

- If you are under contract with a builder, plans designer, or other rebuild professionals, please get in touch with us through the phone number or email below so that our records can be updated, showing your progress towards rebuilding.
- Please let us know if you have property title issues to overcome.
- Please let us know if you have not received your determination notice from PG\&E or the first payment.

We understand recovery after the fire is complex, and we are here to assist in any way we can in connecting you with the tools and resources you need to transition to permanent housing. If you have any questions about this notice, please get in touch with our Planning Division staff at (530) 872-6291 ext. 411 or planning@townofparadise.com

## Rebuilding Resources

## Help Central

http://helpcentral.org/ or call 211 or text your zip code to 898211

- Get connected with area resources
- If you are a Camp Fire survivor, connect with a Disaster Case Manager


## USDA Section 502 Direct Loan

https://eligibility.sc.egov.usda.gov/ (530) 534-0112

- Income-limits apply
- Value-limits apply
- Available to former renters or homeowners


## CalVet

https://www.calvet.ca.gov/HomeLoans
or 866-653-2510

- Available to veterans
- No minimum credit scores
- No income limits
- Available to former renters or homeowners


## Town of Paradise First-Time Home Buyer

## Program

https://www.townofparadise.com/housing/page/firs
t-time-home-buyer-program

- Down payment assistance to purchase a standing home in Paradise
- Income-limits apply
- Value-limits apply
- Available to former renters or homeowners


## ReCoverCA

https://www.hcd.ca.gov/grants-and-
funding/recoverca

- Federal grants for rebuild
- Available to former homeowners
- Income-limits apply


## Town of Paradise Owner-Occupied

## Rehabilitation Loan

https://www.townofparadise.com/housing/page/ow ner-occupied-housing-rehabilitation-andreconstruction

- Up to $\$ 150,000$, deferred loan, for rebuilding or repairing a home in Paradise
- Income-limits apply
- Value-limits apply
- Available to homeowners (must have been on the title at the time of the fire)


## Rebuild Paradise Foundation

https://www.rebuildparadise.org/

- Grants to reimburse costs for a survey, architecture/engineering fees, water expenses
- Grants up to $\$ 7,500$ to repair or replace septic
- Income-limits apply
- Available to homeowners and former renters in Paradise
- Pre-approved building plans


## Community Housing Improvement Program (CHIP)

- https://chiphousing.org/ or call (530)8916931
- Self-help rebuild program and the waiting list for Paradise Community Village apartments
Habitat For Humanity
https://www.buttehabitat.org/
(530) 332-0821 or info@buttehabitat.org
- Self-help build program, available to former homeowners and people who were renting

Town of Paradise
Council Agenda Summary
Agenda Item: 1(h)
Date: February 14, 2023

## ORIGINATED BY: <br> Kate Anderson, Housing Program Manager

REVIEWED BY:
SUBJECT:
Kevin Phillips, Town Manager
Housing Recovery Update
LONG TERM
No
RECOVERY PLAN:

## COUNCIL ACTION REQUESTED:

1. None

## Background:

This report provide the Town Council with an update of Housing activities. A summary of the programs, with overall interest and change from the last month, follows.

Analysis:
We have $\mathbf{2 9 . 3}$ \% (+0.2) of our pre-disaster housing stock to-date ( 1,377 surviving units $+2,143$ new CofOs to-date [+35 from last month] = 3,320 habitable dwellings / 12,015 housing units before the Camp Fire). An additional $800(+11)$ permits have been issued but have not received their CofO yet.

## Town of Paradise Owner-Occupied Rehabilitation/Reconstruction Program (\$21 million)

- This program helps homeowners rehabilitate or reconstruct their home.
- To-date $28(+1)$ homes rebuilt, $22(-1)$ under construction and $36(-3)$ in the application process.

State of California/ReCoverCA: Owner-Occupied Rehabilitation/Reconstruction Program (\$47 million across state)

- Grants of up to $\$ 500,000$ for property owners.
- To-date $5(+0)$ home rebuilt, $9(+0)$ permits issued, 2 (+0) have been submitted for plan review, 1,232 (+0) surveys received.


## Town of Paradise First-Time Homebuyer Program (\$2 million)

- Helping to make home ownership more affordable by providing assistance toward the purchase price and closing costs of an owner-occupied, affordable housing unit.
- Working with Habitat and CHIP to accept land for self-help affordable homeownership.
- To-date $12(+4)$ homes purchased and $32(-7)$ applications in process. Lots of interest from local lenders and realtors.


## Town of Paradise Septic Grant Program $(\$ 570,000)$

- Grants up to $\$ 17,000$ to assist Camp Fire survivors to repair or replace septic systems damaged or destroyed during the Camp Fire or subsequent clean-up efforts.
- To-date 29 (+2), applications in process, 7 (+1) applications approved, 13 (+0) completed.

CDBG-DR Multifamily Rental Housing Program (\$55 million)

- Goal is to create affordable rental housing
- Large projects (8+ units): 8 project received totaling 368 units and \$64,377,157 requested (oversubscribed); 7 projects will be funded.

HOME Infill New Construction (\$700,000)

- Create affordable housing for first-time homebuyers.
- Working with North Valley Housing Trust to accept land for program.
- HCD has let us know that we received the award but this program is still suspended.

CDBG (2022 Annual Allocation: $\$ 107,537+$ Prior unspent awards: $\$ 548,325.35+$ Program Income: $\$ 126,956.67)$

- Timeliness issue continues; a minimum of $\$ 621,513.52$ must be spent by May $1,2023$.
- Skyway sidewalk project $=\$ 600,000$ to be completed by March
- Property acquisition for affordable homeownership $=\$ 135,771$ to be purchased by April
- Public services (B\&GC, Meal on Wheels and PRPD) $=\$ 12,098.25$ by April
- Program administration $=\$ 16,130.25$ by April
- CV funds (separate from above) ear-marked for Economic Development $=\$ 208,244$ awarded, of which $\$ 166,595.20$ must be spent.


## Financial Impact:

None.

## TOWN COUNCIL Meeting Minutes

## 6:00 PM - January 10, 2023

## 1. OPENING

The Regular meeting of the Paradise Town Council was called to order by Mayor Bolin at 6:00 p.m. in the Town Council Chamber located at 5555 Skyway, Paradise, California who led the Pledge of Allegiance to the Flag of the United States of America. An invocation was offered by Council Member Culleton.

COUNCIL MEMBERS PRESENT: Steve Crowder, Steve "Woody" Culleton, Rose Tryon and Greg Bolin, Mayor

COUNCIL MEMBERS ABSENT: Ron Lassonde
STAFF PRESENT: Town Manager Kevin Phillips, Town Attorney Scott E. Huber, Town Clerk/Elections Official Dina Volenski, Finance Director/Town Treasurer Ross Gilb, Information Systems Director Luis Marquez, Public Works Director/Town Engineer Marc Mattox, Community Development Director Tony Lindsey, Recovery and Economic Development Director Colette Curtis, Business and Housing Manager Kate Anderson, Recovery and Economic Development Project Manager Brian Solecki, Police Chief Eric Reinbold, and Fire Chief Patrick Purvis.

Mayor Bolin stated that in order for the Council to discuss and make the recommendation of declaring a Local Emergency within the Town of Paradise, as a result of the recent winter storms, the item must be formally added to the agenda. It takes two thirds vote to add the item to the agenda, or if less than two thirds are present a unanimous vote of those present.

As such, Council is requested to take the following actions:
Pursuant to Government Code Section 54954.2(b)(2) the Town Council finds that there is a need to take immediate action and that the need came to the attention of the Town after the posting of the agenda concerning the following item:

1(a)1. 1. Consider declaring the existence of a Local Emergency within the Town of Paradise as a result of the recent storms; and, 2. Adopt Resolution No. 2023-03, "A Resolution of the Town Council of the Town of Paradise Proclaiming the Existence of a Local Emergency."

Motion by Tryon, seconded by Crowder, the Town Council finds that there is a need to take immediate action and that the need came to the attention of the Town after the posting of the agenda and added Agenda Item 1(a)1 to the agenda. Roll call vote was unanimous with Lassonde absent and not voting.

Motion by Tryon, seconded by Culleton, 1. Declared the existence of a Local Emergency within the Town of Paradise as a result of the recent storms; and, 2. Adopted Resolution No. 2023-03, "A Resolution of the Town Council of the Town of Paradise Proclaiming the Existence of a Local Emergency." Roll call vote was unanimous with Lassonde absent and not voting. (420-50-054)

1a. Mayor Bolin presented the 2022 Recognitions for Employee Service to the Town of Paradise. (630-20-022)

## 15 Years

Kate Anderson - Business and Housing Services
Shirley Kamm - Animal Control - (Not present)
Eric Reinbold - Police Department

## 5 Years

Hunter Carmassi - Engineering Department - (Not present)
1b. Camp Fire Recovery Updates - Written reports are included in the agenda packet. (110-60-061)

Colette Curtis, Recovery and Economic Development Director - Recovery projects, Advocacy, Economic Recovery and Development, Communications and Emergency Operations.

Marc Mattox, Public Works Director/Town Engineer - Infrastructure and Sewer Update.

Tony Lindsey, CDD-Building and Code Enforcement - Code Enforcement Update

Kate Anderson, Business and Housing Manager - Business and Housing Update

## 2. CONSENT CALENDAR

MOTION by Crowder, seconded by Culleton, approved consent calendar items 2 a through $\mathrm{2b}$. Roll call vote was unanimous with Lassonde absent and not voting.
2a. Approved the Special and Regular minutes of the December 13, 2022, Town Council meeting.
2b. Approved December 2022 Cash Disbursements in the amount of $\$ 3,684,830.18$. (310-10-034)
3. ITEMS REMOVED FROM CONSENT CALENDAR - None

## 4. PUBLIC COMMUNICATION

1. Ward Habriel commented on recipients of the weed abatement letters and Fire Station 83.
2. Jon Remalia commented on Public Works' diligence and good work throughout the storms. He also commented on the Devil Mountain Brigade's exclusion from the Gold Nugget Day Parade.
3. Carrie Max commented on the end of the RV Urgency Ordinance.

## 5. PUBLIC HEARINGS - None

## 6. COUNCIL CONSIDERATION

6a. Police Chief Reinbold provided an overview of the proposed MOU with Paradise Unified School District to implement and support a School Resource Officer position.

1. Mimi Brown, a counselor for PUSD, spoke in favor of this item.
2. Melissa Brown, a Paradise High School alumni, shared an experience of being attacked in the bathroom while she was attending Paradise High School and spoke in favor of this item.

MOTION by Culleton, seconded by Crowder Adopted Resolution No. 2023-01, "A Resolution of The Town Council of The Town of Paradise Making Findings Concerning Executing an MOU with the Paradise Unified School District to Implement and Support a School Resource Officer Position." Roll call vote was unanimous with Lassonde absent and not voting. (480-60-014, 510-20-369)

6b. Town Manager Phillips and Town Attorney Scott Huber presented on the Town owned property located at 5560 Berry Creek Drive that was purchased in 2000 with DCBG funding for community park usage. A plan was previously established to create Berry Creek Park, however, in 2002 Town Council approved renaming Berry Creek Park to Larry Estes Memorial Park and naming the playing field Ralph Dorville Field. Paradise Little League's has inquired about the use of the property.

Council provided direction to staff to bring the dialogue to PRPD and Paradise Little League to determine if they were interested in collaborating on this property and consider discussing a lease for joint use.

6c. Public Works Director/Town Engineer Marc Mattox provided an overview of the On-System Roadway Rehabilitation - Pearson (Phase2) project.

1. Jon Remalia asked whether the Town could require the contractor to bore the pipe through rather than disturbing the surface.

MOTION by Culleton, seconded by Tryon 1. Adopted Resolution No. 2023-02, "A Resolution of the Town Council of the Town of Paradise Awarding Contract No. 7303.2.CON, On-System Roadway Rehabilitation Pearson (Phase 2) to Baldwin Contracting Company, Inc. dba Knife River Construction in the amount of their base bid; and, 2. Authorized the Town Manager to execute an agreement with Baldwin Contracting Company, Inc. dba Knife River Construction in the amount of their base bid plus additive
bid \#1 relating to Contract No. 7303.2.CON and to approved contingency expenditures not exceeding 10\%. Roll call vote was unanimous with Lassonde absent and not voting. (950-40-054, 510-20-368)

6d. Town Council discussed clarifying whether the appointed position for the Butte County and Vector Control District board should be a two or four-year appointment.

1. Melissa Schuster provided a report from the Butte County Mosquito and Vector Control District board where she is a Council appointed representative.

MOTION by Crowder, seconded by Culleton, approved the Butte County Mosquito and Vector Control District Board appointment as a four-year term. Roll call vote was unanimous with Lassonde absent and not voting. (120-10-010)

6e. Town Attorney Scott Huber presented on the proposed ordinance relating to abatement warrants, injunctions and Civil Penalties. Mr. Huber clarified that this ordinance would be used as an additional tool of last resort and that it is possible it will not apply to occupied dwellings.

1. Ward Habriel commented on this item.

MOTION by Culleton, seconded by Crowder, waived second reading of the entire Town Ordinance No. 623 and approved reading by title only; and, adopted Town Ordinance No. 623, "An Ordinance Amending Paradise Municipal Code Section 8.04.020.1 Relating to Abatement Warrants, Injunctions and Civil Penalties." Roll call vote was unanimous with Lassonde absent and not voting. (540-16-192)

## 7. COUNCIL INITIATED ITEMS AND REPORTS

7a1. Council Member Culleton presented a proposal to create an Art Committee to promote the Town of Paradise as an art community destination.

1. Melissa Schuster spoke in favor of this item.
2. Mimi Brown spoke in favor of this item.
3. Mark Thorp spoke in favor of this item.
4. Kathy Dysert spoke in favor of this item.
5. Melissa Brown spoke in favor of this item.

Council provided staff with direction to bring back an outline of parameters to establish an Art Committee.

7a2. Discuss enforcement of professional landscapers blowing and leaving the leaves in the street (BOLIN) - This item was tabled until more information is received regarding the issue.

7a3. Council Member Tryon introduced the creation of a Legislative Committee to work with State and Federal Advocates. Town Council provided direction to staff to bring back an outline of parameters for a Legislative Committee.

7b. Council reports on committee representation:
Vice Mayor Tryon attended the Solid Waste Management meeting and reported that the green waste yard will continue on Fridays and Saturdays.

Council Member Culleton attended the Solid Waste Management meeting and reported the Consortium of Care Committee meetings have been postponed.

Council Member Crowder attended the Board of Realtors meeting and the swearing-in of Animal Control Supervisor Mollie St John.

Mayor Bolin attended the swearing-in of Animal Control Supervisor Mollie St John and reported that LAFCo was cancelled this month.

7c. Future Agenda Items - None

## 8. STAFF COMMUNICATION

8a. Town Manager Phillips reported that the Town received rebuild applications from $7^{\text {th }}$ Day Adventist Church, and the Calvary Baptist Church; Rental Guys has applied for building permits for upper Skyway; Three (3) affordable housing projects are in plan review; the EV Parking Stations are in plan check; IBHS will present as a guest speaker at the Building Stakeholders Meeting on February $1^{\text {st }}$ and reported an increase in singlefamily homes and multi-family home applications for the month of December.
9. CLOSED SESSION - None

## 10. ADJOURNMENT

Mayor Bolin adjourned the meeting at 8:02 p.m.
Date approved:
$B y:$
Attest:

## MINUTES

PARADISE TOWN COUNCIL
SPECIAL MEETING - 3:00 PM - January 17, 2023

## 1. OPENING

The Special meeting of the Paradise Town Council was called to order by Mayor Bolin at 3:00 p.m. in the Council Chambers located at 5555 Skyway, Paradise, California who led the Pledge of Allegiance to the Flag of the United States of America.

COUNCIL MEMBERS PRESENT: Steve Crowder, Steve "Woody" Culleton, Ron Lassonde, Rose Tryon and Greg Bolin, Mayor.

COUNCIL MEMBERS ABSENT: None
STAFF PRESENT: Town Manager Kevin Phillips, Town Clerk/Elections Official Dina Volenski, Town Attorney Scott E. Huber (via Teams), Recovery \& Economic Development Director Colette Curtis, Finance Director/Town Treasurer Ross Gilb, and Information Systems Director Luis Marquez.

Vice Mayor Tryon requested that agenda item 3a be moved to the top of the agenda. All Town Council concurred to move item 3 a to the top of the agenda.

## 3. COUNCIL INITIATED

3a. Vice Mayor Tryon presented this item asking that all Town Council sign a letter showing support for Congressman LaMalfa and Thompson's bill to exclude Fire Victim's settlement funds from federal taxes.

MOTION by Culleton, seconded by Tryon, approved a letter of support from the Town Council supporting Congressman LaMalfa and Thompson's bill to exclude Fire Victim's settlements from federal taxes. Roll call vote was unanimous. (550-30-001, 180-30-100)

## 2. COUNCIL CONSIDERATION

2a. Council Member Crowder provided an overview of the purpose of the Washington D.C. trip to advocate on the bill introduced by Congressman LaMalfa and Thompson to exclude Fire Victims settlement funds from Federal taxes. Town of Paradise federal lobbyist Kristi More answered questions about the necessity of visiting DC in both February and March and strategies regarding the best timing on advocating these issues to Congress.

1. Jon Remalia spoke in favor of this item.

MOTION by Tryon, seconded by Culleton, approved a trip to be taken by Council Member Steve Crowder to Washington DC to advocate for HR 176 (tax burden relief for wildfire claimants) and a budget adjustment, not to exceed $\$ 1,500$, to fund the trip from the Town Council budget with input from Vice Mayor Tryon. (Receipts to be provided upon return for reimbursement) Roll call vote was unanimous. (340-40-016)

## 4. ADJOURNMENT

Mayor Bolin adjourned the Council meeting at 3:48 p.m.
Date approved:

By:

Greg Bolin, Mayor

Attest:
$\overline{\text { Dina Volenski, CMC, Town Clerk }}$

# TOWN OF PARADISE 

 CASH DISBURSEMENTS REPORTFOR THE PERIOD OF
January 1, 2023 - January 31, 2023

## CASH DISBURSEMENTS REPORT

## January 1, 2023 - January 31, 2023

| Check Date | Pay Period End Description | Amount | Total |
| :---: | :---: | :---: | :---: |
| 1/6/2023 | 1/1/2023 Net Payroll - Direct Deposits and Checks | \$ 203,418.88 |  |
| 1/20/2023 | 1/15/2023 Net Payroll - Direct Deposits and Checks | 218,223.89 |  |
|  |  |  | \$ 421,642.77 |
| Accounts Payable |  |  |  |
| Payroll Vendors: Taxes, PERS, Dues, Insurance, Etc. |  | 390,654.58 |  |
| Operations Vendors: Supplies, Contracts, Utilities, Etc. |  | \$ 2,384,115.28 |  |
|  | TOTAL CASH DISBURSEMENTS ACCOUNTS PAYABLE |  | 2,774,769.86 |
|  | GRAND TOTAL CASH DISBURSEMENTS |  | \$ 3,196,412.63 |
| APPROVED BY: |  |  |  |
|  | Kevin Phillips, Town Manager |  |  |
|  | APPROVED BY: |  |  |
|  | Ross Gilb, Finance Director / Town Treasurer |  |  |

Payment Register
From Payment Date: 1/1/2023 - To Payment Date: 1/31/2023

| Number | Date | Status | Void Reason | Reconciled/ <br> Voided Date | Source | Payee Name | Transaction Amount | Reconciled Amount | Difference |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AP - US Bank TOP AP Checking |  |  |  |  |  |  |  |  |  |
| Check |  |  |  |  |  |  |  |  |  |
| 82477 | 01/04/2023 | Open |  |  | Accounts Payable | De Lage Landen Public Finance LLC | \$781.25 |  |  |
| 82478 | 01/04/2023 | Open |  |  | Accounts Payable | ENTERPRISE FM TRUST | \$1,073.32 |  |  |
| 82479 | 01/04/2023 | Open |  |  | Accounts Payable | SBA Monarch Towers III LLC | \$166.50 |  |  |
| 82480 | 01/11/2023 | Open |  |  | Accounts Payable | ICMA 457 - MissionSquare | \$2,952.08 |  |  |
| 82481 | 01/11/2023 | Open |  |  | Accounts Payable | STATE DISBURSEMENT UNIT | \$194.76 |  |  |
| 82482 | 01/12/2023 | Open |  |  | Accounts Payable | Adams Ashby Group, Inc. | \$53,325.00 |  |  |
| 82483 | 01/12/2023 | Open |  |  | Accounts Payable | ADVANCED DOCUMENT CONCEPTS | \$18.89 |  |  |
| 82484 | 01/12/2023 | Open |  |  | Accounts Payable | Akin, David | \$345.00 |  |  |
| 82485 | 01/12/2023 | Open |  |  | Accounts Payable | All-American Construction, Inc. | \$159,463.20 |  |  |
| 82486 | 01/12/2023 | Open |  |  | Accounts Payable | Allen Gill Construction, Inc. | \$197,437.90 |  |  |
| 82487 | 01/12/2023 | Open |  |  | Accounts Payable | ANIMAL HOSPITALVETMOBILE | \$75.00 |  |  |
| 82488 | 01/12/2023 | Open |  |  | Accounts Payable | Archuleta, Derek, S | \$396.75 |  |  |
| 82489 | 01/12/2023 | Open |  |  | Accounts Payable | AT\&T MOBILITY | \$79.54 |  |  |
| 82490 | 01/12/2023 | Open |  |  | Accounts Payable | AT\&T MOBILITY | \$176.55 |  |  |
| 82491 | 01/12/2023 | Open |  |  | Accounts Payable | Batteries Plus Bulbs | \$193.81 |  |  |
| 82492 | 01/12/2023 | Open |  |  | Accounts Payable | Big O Tires | \$100.00 |  |  |
| 82493 | 01/12/2023 | Open |  |  | Accounts Payable | Biometrics4ALL, Inc | \$1,379.76 |  |  |
| 82494 | 01/12/2023 | Open |  |  | Accounts Payable | Blue Flamingo Marketing Advocates | \$4,345.56 |  |  |
| 82495 | 01/12/2023 | Open |  |  | Accounts Payable | Bunch Electrical | \$2,930.00 |  |  |
| 82496 | 01/12/2023 | Open |  |  | Accounts Payable | BUTTE CO RECORDER | \$344.00 |  |  |
| 82497 | 01/12/2023 | Open |  |  | Accounts Payable | BUTTE COUNTY ELECTIONS DIVISION | \$12,907.63 |  |  |
| 82498 | 01/12/2023 | Open |  |  | Accounts Payable | California Assoc of Sanitation Agencies | \$950.00 |  |  |
| 82499 | 01/12/2023 | Open |  |  | Accounts Payable | CALIFORNIA BUILDING STANDARDS COMMISSION | \$901.80 |  |  |
| 82500 | 01/12/2023 | Open |  |  | Accounts Payable | CALIFORNIA STATE DEPARTMENT OF CONSERVATION | \$3,061.58 |  |  |
| 82501 | 01/12/2023 | Open |  |  | Accounts Payable | Carmassi, Hunter, C | \$121.25 |  |  |
| 82502 | 01/12/2023 | Open |  |  | Accounts Payable | COMCASt Cable | \$401.40 |  |  |
| 82503 | 01/12/2023 | Open |  |  | Accounts Payable | COMCAST CABLE | \$416.40 |  |  |
| 82504 | 01/12/2023 | Open |  |  | Accounts Payable | COMCASt CAbLE | \$416.40 |  |  |
| 82505 | 01/12/2023 | Open |  |  | Accounts Payable | COMCASt Cable | \$148.40 |  |  |
| 82506 | 01/12/2023 | Open |  |  | Accounts Payable | Creative Composition Inc | \$81.32 |  |  |
| 82507 | 01/12/2023 | Open |  |  | Accounts Payable | DOBRICH \& SONS SEPTIC | \$1,092.50 |  |  |
| 82508 | 01/12/2023 | Open |  |  | Accounts Payable | Eidhammer, Trenton | \$345.00 |  |  |
| 82509 | 01/12/2023 | Open |  |  | Accounts Payable | Elk Grove Auto / Winner Chevrolet | \$63,955.69 |  |  |
| 82510 | 01/12/2023 | Open |  |  | Accounts Payable | Escheman Construction Company | \$101,394.58 |  |  |
| 82511 | 01/12/2023 | Open |  |  | Accounts Payable | EXECUTIVE HOMES | \$11,000.00 |  |  |
| 82512 | 01/12/2023 | Open |  |  | Accounts Payable | FIDELITY NATIONAL TITLE COMPANY - CHICO | \$100,000.00 |  |  |
| 82513 | 01/12/2023 | Open |  |  | Accounts Payable | Fisher, Joshua | \$86.00 |  |  |
| 82514 | 01/12/2023 | Open |  |  | Accounts Payable | FRANKLIN CONSTRUCTION COMPANY | \$1,129.02 |  |  |
| 82515 | 01/12/2023 | Open |  |  | Accounts Payable | Golden State Emergency Vehicle Service, Inc. | \$194.13 |  |  |
| 82516 | 01/12/2023 | Open |  |  | Accounts Payable | GOVERNOR'S OFFICE OF EMERGENCY SERVICES | \$92.00 |  |  |
| 82517 | 01/12/2023 | Open |  |  | Accounts Payable | GREEN RIDGE LANDSCAPING | \$5,296.00 |  |  |
| 82518 | 01/12/2023 | Open |  |  | Accounts Payable | Guardian Public Safety Background Investigations | \$1,450.00 |  |  |
| 82519 | 01/12/2023 | Open |  |  | Accounts Payable | I.M.P.A.C. PAYMENTS IMPAC GOV SVCS/US BANCORP | \$10,191.03 |  |  |
| 82520 | 01/12/2023 | Open |  |  | Accounts Payable | J.J.R. Enterprises Inc | \$1,060.87 |  |  |
| 82521 | 01/12/2023 | Open |  |  | Accounts Payable | James or Lavenia Riotto | \$400.00 |  |  |
| 82522 | 01/12/2023 | Open |  |  | Accounts Payable | JC NELSON SUPPLY COMPANY | \$323.92 |  |  |
| 82523 | 01/12/2023 | Open |  |  | Accounts Payable | Jennifer Arbuckle | \$6,675.00 |  |  |

Payment Register
From Payment Date: 1/1/2023 - To Payment Date: 1/31/2023

| Number | Date | Status | Void Reason | Reconciled/ Voided Date | Source | Payee Name | Transaction Amount | Reconciled Amount | Difference |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AP - US Bank TOP AP Checking |  |  |  |  |  |  |  |  |  |
| Check |  |  |  |  |  |  |  |  |  |
| 82524 | 01/12/2023 | Open |  |  | Accounts Payable | JOHNNY ON THE SPOT PORTABLES | \$186.45 |  |  |
| 82525 | 01/12/2023 | Open |  |  | Accounts Payable | Kevin Sharrah Designs | \$3,667.05 |  |  |
| 82526 | 01/12/2023 | Open |  |  | Accounts Payable | KNIFE RIVER CONSTRUCTION | \$333,856.13 |  |  |
| 82527 | 01/12/2023 | Open |  |  | Accounts Payable | KNIFE RIVER CONSTRUCTION | \$98,274.69 |  |  |
| 82528 | 01/12/2023 | Open |  |  | Accounts Payable | Lash's Glass | \$6,725.40 |  |  |
| 82529 | 01/12/2023 | Open |  |  | Accounts Payable | LIFE ASSIST INC | \$463.22 |  |  |
| 82530 | 01/12/2023 | Open |  |  | Accounts Payable | LOCATE PLUS CORPORATION | \$60.50 |  |  |
| 82531 | 01/12/2023 | Open |  |  | Accounts Payable | Look Ahead Veterinary Services | \$457.06 |  |  |
| 82532 | 01/12/2023 | Open |  |  | Accounts Payable | Mark Thomas \& Company Inc | \$8,975.44 |  |  |
| 82533 | 01/12/2023 | Open |  |  | Accounts Payable | Mennonite Disaster Service | \$7,713.00 |  |  |
| 82534 | 01/12/2023 | Open |  |  | Accounts Payable | Meyers Police K-9 Training, LLC | \$4,500.00 |  |  |
| 82535 | 01/12/2023 | Open |  |  | Accounts Payable | Mt Shasta Spring Water Co., Inc | \$388.32 |  |  |
| 82536 | 01/12/2023 | Open |  |  | Accounts Payable | MUNIMETRIX SYSTEMS CORP | \$39.99 |  |  |
| 82537 | 01/12/2023 | Open |  |  | Accounts Payable | NCCSIF TREASURER | \$63,211.75 |  |  |
| 82538 | 01/12/2023 | Open |  |  | Accounts Payable | North State Tire Co. Inc. | \$522.95 |  |  |
| 82539 | 01/12/2023 | Open |  |  | Accounts Payable | NORTHERN RECYCLING \& WASTE SERVICES, INC. | \$946.86 |  |  |
| 82540 | 01/12/2023 | Open |  |  | Accounts Payable | NORTHGATE PETROLEUM CO | \$9,022.79 |  |  |
| 82541 | 01/12/2023 | Open |  |  | Accounts Payable | NV5, Inc. | \$11,566.13 |  |  |
| 82542 | 01/12/2023 | Open |  |  | Accounts Payable | NV5, Inc. | \$20,225.31 |  |  |
| 82543 | 01/12/2023 | Open |  |  | Accounts Payable | NV5, Inc. | \$6,082.31 |  |  |
| 82544 | 01/12/2023 | Open |  |  | Accounts Payable | O'REILLY AUTO PARTS | \$422.94 |  |  |
| 82545 | 01/12/2023 | Open |  |  | Accounts Payable | OFFICE DEPOT ACCT\#36233169 | \$1,029.44 |  |  |
| 82546 | 01/12/2023 | Open |  |  | Accounts Payable | PACIFIC GAS \& ELECTRIC | \$1,302.04 |  |  |
| 82547 | 01/12/2023 | Open |  |  | Accounts Payable | PARADISE POST | \$825.45 |  |  |
| 82548 | 01/12/2023 | Open |  |  | Accounts Payable | PETTY CASH, CHRISTINA SHOEMAKER | \$8.74 |  |  |
| 82549 | 01/12/2023 | Open |  |  | Accounts Payable | PICKERING, ROBERT | \$75.00 |  |  |
| 82550 | 01/12/2023 | Open |  |  | Accounts Payable | Psomas | \$16,965.57 |  |  |
| 82551 | 01/12/2023 | Open |  |  | Accounts Payable | Psomas | \$3,070.73 |  |  |
| 82552 | 01/12/2023 | Open |  |  | Accounts Payable | Psomas | \$3,540.97 |  |  |
| 82553 | 01/12/2023 | Open |  |  | Accounts Payable | Psomas | \$24,920.52 |  |  |
| 82554 | 01/12/2023 | Open |  |  | Accounts Payable | Psomas | \$92,178.37 |  |  |
| 82555 | 01/12/2023 | Open |  |  | Accounts Payable | Psomas | \$54,552.14 |  |  |
| 82556 | 01/12/2023 | Open |  |  | Accounts Payable | R B SPENCER INC | \$10,655.00 |  |  |
| 82557 | 01/12/2023 | Open |  |  | Accounts Payable | RE CONSTRUCTION | \$15,030.00 |  |  |
| 82558 | 01/12/2023 | Open |  |  | Accounts Payable | RENTAL GUYS - CHICO | \$107.25 |  |  |
| 82559 | 01/12/2023 | Open |  |  | Accounts Payable | Riebes Auto Parts- Motorpool | \$283.41 |  |  |
| 82560 | 01/12/2023 | Open |  |  | Accounts Payable | Sigler Pest Control | \$50.00 |  |  |
| 82561 | 01/12/2023 | Open |  |  | Accounts Payable | SKYWAY TOOL CENTER | \$635.79 |  |  |
| 82562 | 01/12/2023 | Open |  |  | Accounts Payable | SONSRAY MACHINERY LLC | \$106,270.38 |  |  |
| 82563 | 01/12/2023 | Open |  |  | Accounts Payable | Specialized Pavement Marking, LLC | \$73,611.71 |  |  |
| 82564 | 01/12/2023 | Open |  |  | Accounts Payable | Spherion Staffing | \$1,892.63 |  |  |
| 82565 | 01/12/2023 | Open |  |  | Accounts Payable | STERICYCLE, INC. | \$492.12 |  |  |
| 82566 | 01/12/2023 | Open |  |  | Accounts Payable | Stratii | \$9,545.16 |  |  |
| 82567 | 01/12/2023 | Open |  |  | Accounts Payable | Stratton, Brock | \$548.50 |  |  |
| 82568 | 01/12/2023 | Open |  |  | Accounts Payable | t Mobile usa, inc. | \$1,370.97 |  |  |
| 82569 | 01/12/2023 | Open |  |  | Accounts Payable | Tahoe Pure Water Co. | \$59.00 |  |  |
| 82570 | 01/12/2023 | Open |  |  | Accounts Payable | thomas ace hardware - Eng. DEPT. | \$355.97 |  |  |

Payment Register
From Payment Date: 1/1/2023 - To Payment Date: 1/31/2023

| Number | Date | Status | Void Reason | Reconciled/ <br> Voided Date | Source | Payee Name | Transaction Amount | Reconciled Amount | Difference |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AP - US Bank TOP AP Checking |  |  |  |  |  |  |  |  |  |
| Check |  |  |  |  |  |  |  |  |  |
| 82571 | 01/12/2023 | Open |  |  | Accounts Payable | thomas ace hardware - FIre dept. | \$58.31 |  |  |
| 82572 | 01/12/2023 | Open |  |  | Accounts Payable | THOMAS ACE HARDWARE - MOTORPOOL | \$152.43 |  |  |
| 82573 | 01/12/2023 | Open |  |  | Accounts Payable | thomas ace hardware - Police dept. | \$28.78 |  |  |
| 82574 | 01/12/2023 | Open |  |  | Accounts Payable | TRUEPOINT SOLUTIONS, LLC | \$1,237.50 |  |  |
| 82575 | 01/12/2023 | Open |  |  | Accounts Payable | Tuck, Kevin | \$74.00 |  |  |
| 82576 | 01/12/2023 | Open |  |  | Accounts Payable | VERIZON WIRELESS | \$1,204.66 |  |  |
| 82577 | 01/12/2023 | Open |  |  | Accounts Payable | Walters, Perry | \$59.00 |  |  |
| 82578 | 01/12/2023 | Open |  |  | Accounts Payable | White Glove Cleaning Svc Inc, Theresa Contreras | \$5,610.00 |  |  |
| 82579 | 01/12/2023 | Open |  |  | Accounts Payable | WILKEY, JOHN | \$203.50 |  |  |
| 82580 | 01/12/2023 | Open |  |  | Accounts Payable | WITTMEIER AUTO CENTER | \$27.89 |  |  |
| 82581 | 01/12/2023 | Open |  |  | Accounts Payable | Wood, Montana, S | \$396.75 |  |  |
| 82582 | 01/12/2023 | Open |  |  | Accounts Payable | Wood Rodgers, Inc. | \$126.60 |  |  |
| 82583 | 01/12/2023 | Open |  |  | Accounts Payable | Aflac | \$57.98 |  |  |
| 82584 | 01/12/2023 | Open |  |  | Accounts Payable | Met Life | \$11,528.15 |  |  |
| 82585 | 01/12/2023 | Open |  |  | Accounts Payable | OPERATING ENGINEERS | \$1,003.00 |  |  |
| 82586 | 01/12/2023 | Open |  |  | Accounts Payable | PARADISE POLICE OFFICERS ASSOCIATION | \$1,820.96 |  |  |
| 82587 | 01/12/2023 | Open |  |  | Accounts Payable | SUN LIFE INSURANCE | \$6,927.63 |  |  |
| 82588 | 01/12/2023 | Open |  |  | Accounts Payable | SUPERIOR VISION SVC NGLIC | \$858.47 |  |  |
| 82589 | 01/12/2023 | Open |  |  | Accounts Payable | TOP CONFIDENTIAL MID MGMT ASSOCIATION | \$80.00 |  |  |
| 82590 | 01/24/2023 | Open |  |  | Accounts Payable | ICMA 457 - MissionSquare | \$2,952.08 |  |  |
| 82591 | 01/24/2023 | Open |  |  | Accounts Payable | STATE DISbursement unit | \$194.76 |  |  |
| 82592 | 01/26/2023 | Open |  |  | Accounts Payable | 4LEAF, Inc | \$28,545.00 |  |  |
| 82593 | 01/26/2023 | Open |  |  | Accounts Payable | ACCESS INFORMATION PROTECTED | \$263.64 |  |  |
| 82594 | 01/26/2023 | Open |  |  | Accounts Payable | Allen Gill Construction, Inc. | \$33,778.71 |  |  |
| 82595 | 01/26/2023 | Open |  |  | Accounts Payable | Asbury Environmental Services | \$452.80 |  |  |
| 82596 | 01/26/2023 | Open |  |  | Accounts Payable | AT\&T \& CALNET3-CIRCUIT LINES | \$859.90 |  |  |
| 82597 | 01/26/2023 | Open |  |  | Accounts Payable | AT\&T \& CALNET3-CIRCUIT LINES | \$110.79 |  |  |
| 82598 | 01/26/2023 | Open |  |  | Accounts Payable | AT\&T MOBILITY | \$89.46 |  |  |
| 82599 | 01/26/2023 | Open |  |  | Accounts Payable | AT\&T Wireless Services | \$2,248.13 |  |  |
| 82600 | 01/26/2023 | Open |  |  | Accounts Payable | AT\&T/CALNET3 - REPEATER LINES | \$212.09 |  |  |
| 82601 | 01/26/2023 | Open |  |  | Accounts Payable | AT\&T/CALNET3-COMMUNITY PARK | \$19.61 |  |  |
| 82602 | 01/26/2023 | Open |  |  | Accounts Payable | AT\&T/CALNET3 - Summary | \$2,212.33 |  |  |
| 82603 | 01/26/2023 | Open |  |  | Accounts Payable | AT\&T/CALNET3 - Summary | \$24.12 |  |  |
| 82604 | 01/26/2023 | Open |  |  | Accounts Payable | AT\&T/CALNET3-TH/FDPD FIBER LINES | \$1,136.08 |  |  |
| 82605 | 01/26/2023 | Open |  |  | Accounts Payable | AWARDS COMPANY | \$158.52 |  |  |
| 82606 | 01/26/2023 | Open |  |  | Accounts Payable | Baker, Heavenlea | \$15.00 |  |  |
| 82607 | 01/26/2023 | Open |  |  | Accounts Payable | Bear Electrical Systems, Inc | \$2,900.00 |  |  |
| 82608 | 01/26/2023 | Open |  |  | Accounts Payable | BIDWELL TITLE \& ESCROW | \$175.00 |  |  |
| 82609 | 01/26/2023 | Open |  |  | Accounts Payable | BIDWELL TITLE \& ESCROW | \$175.00 |  |  |
| 82610 | 01/26/2023 | Open |  |  | Accounts Payable | Bidwell Truck \& Auto | \$6,719.43 |  |  |
| 82611 | 01/26/2023 | Open |  |  | Accounts Payable | Big O Tires | \$155.00 |  |  |
| 82612 | 01/26/2023 | Open |  |  | Accounts Payable | Blue Flamingo Marketing Advocates | \$1,897.36 |  |  |
| 82613 | 01/26/2023 | Open |  |  | Accounts Payable | Bob Walters Jr. Construction Inc. | \$76,500.00 |  |  |
| 82614 | 01/26/2023 | Open |  |  | Accounts Payable | Broad \& Gusman | \$4,000.00 |  |  |
| 82615 | 01/26/2023 | Open |  |  | Accounts Payable | Bug Smart | \$41.00 |  |  |
| 82616 | 01/26/2023 | Open |  |  | Accounts Payable | BUTTE CO SHERIFF'S OFFICE | \$95,765.92 |  |  |
| 82617 | 01/26/2023 | Open |  |  | Accounts Payable | Butte County Construction Inc | \$25,446.66 |  |  |

Payment Register
From Payment Date: 1/1/2023 - To Payment Date: 1/31/2023

| Number | Date | Status | Void Reason | Reconciled/ Voided Date | Source | Payee Name | Transaction Amount | Reconciled Amount | Difference |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AP - US Bank TOP AP Checking |  |  |  |  |  |  |  |  |  |
| Check |  |  |  |  |  |  |  |  |  |
| 82618 | 01/26/2023 | Open |  |  | Accounts Payable | California Building Officials (CALBO) | \$780.00 |  |  |
| 82619 | 01/26/2023 | Open |  |  | Accounts Payable | CALIFORNIA CRIMINAL JUSTICE WARRANT SERVS. | \$100.00 |  |  |
| 82620 | 01/26/2023 | Open |  |  | Accounts Payable | CALIFORNIA STATE DEPARTMENT OF JUSTICE | \$437.00 |  |  |
| 82621 | 01/26/2023 | Open |  |  | Accounts Payable | COMCASt CAble | \$401.40 |  |  |
| 82622 | 01/26/2023 | Open |  |  | Accounts Payable | COMCASt CAbLE | \$431.40 |  |  |
| 82623 | 01/26/2023 | Open |  |  | Accounts Payable | Computershare | \$4,000.00 |  |  |
| 82624 | 01/26/2023 | Open |  |  | Accounts Payable | Creative Composition Inc | \$85.80 |  |  |
| 82625 | 01/26/2023 | Open |  |  | Accounts Payable | Crossfire Tree \& Vegetation Services | \$1,100.00 |  |  |
| 82626 | 01/26/2023 | Open |  |  | Accounts Payable | DFM ASSOCIATES | \$71.44 |  |  |
| 82627 | 01/26/2023 | Open |  |  | Accounts Payable | Dokken Engineering, Inc. | \$68,937.49 |  |  |
| 82628 | 01/26/2023 | Open |  |  | Accounts Payable | Door Company Inc, The | \$9,839.00 |  |  |
| 82629 | 01/26/2023 | Open |  |  | Accounts Payable | dURHAM PENTZ TRUCK CENTER | \$160.94 |  |  |
| 82630 | 01/26/2023 | Open |  |  | Accounts Payable | Elegant Homes | \$5,250.00 |  |  |
| 82631 | 01/26/2023 | Open |  |  | Accounts Payable | Elegant Homes | \$800.00 |  |  |
| 82632 | 01/26/2023 | Open |  |  | Accounts Payable | ELLIS ART \& ENGINEERING | \$327.28 |  |  |
| 82633 | 01/26/2023 | Open |  |  | Accounts Payable | ENTENMANN-ROVIN COMPANY | \$258.70 |  |  |
| 82634 | 01/26/2023 | Open |  |  | Accounts Payable | Entersect | \$109.95 |  |  |
| 82635 | 01/26/2023 | Open |  |  | Accounts Payable | Escheman Construction Company | \$17,579.38 |  |  |
| 82636 | 01/26/2023 | Open |  |  | Accounts Payable | Evans Consoles Incorporated | \$6,960.00 |  |  |
| 82637 | 01/26/2023 | Open |  |  | Accounts Payable | EVERGREEN JANITORIAL SUPPLY, INC. | \$604.37 |  |  |
| 82638 | 01/26/2023 | Open |  |  | Accounts Payable | Golden State Emergency Vehicle Service, Inc. | \$7,845.25 |  |  |
| 82639 | 01/26/2023 | Open |  |  | Accounts Payable | Granicher Appraisals, Inc | \$400.00 |  |  |
| 82640 | 01/26/2023 | Open |  |  | Accounts Payable | GREAT AMERICA LEASING CORP. | \$129.31 |  |  |
| 82641 | 01/26/2023 | Open |  |  | Accounts Payable | Guardian Public Safety Background Investigations | \$750.00 |  |  |
| 82642 | 01/26/2023 | Open |  |  | Accounts Payable | HDR Engineering, Inc | \$37,909.34 |  |  |
| 82643 | 01/26/2023 | Open |  |  | Accounts Payable | HDR Engineering, Inc | \$23,949.64 |  |  |
| 82644 | 01/26/2023 | Open |  |  | Accounts Payable | HLP, INC / CHAMELEON SOFTWARE PRODUCTS | \$18.90 |  |  |
| 82645 | 01/26/2023 | Open |  |  | Accounts Payable | Hope Crisis Response Network, Inc | \$15,000.00 |  |  |
| 82646 | 01/26/2023 | Open |  |  | Accounts Payable | Hope Crisis Response Network, Inc | \$20,150.00 |  |  |
| 82647 | 01/26/2023 | Open |  |  | Accounts Payable | I.M.P.A.C. PAYMENTS IMPAC GOV SVCS/US BANCORP | \$4,124.53 |  |  |
| 82648 | 01/26/2023 | Open |  |  | Accounts Payable | INTERNATIONAL INSTITUTE OF MUNICIPAL CLERKS | \$125.00 |  |  |
| 82649 | 01/26/2023 | Open |  |  | Accounts Payable | InTERSTATE SALES | \$971.65 |  |  |
| 82650 | 01/26/2023 | Open |  |  | Accounts Payable | James or Lavenia Riotto | \$250.00 |  |  |
| 82651 | 01/26/2023 | Open |  |  | Accounts Payable | JOURNYX, INC. | \$1,000.00 |  |  |
| 82652 | 01/26/2023 | Open |  |  | Accounts Payable | KNIFE RIVER CONSTRUCTION | \$871.90 |  |  |
| 82653 | 01/26/2023 | Open |  |  | Accounts Payable | KNIFE RIVER CONSTRUCTION | \$482.84 |  |  |
| 82654 | 01/26/2023 | Open |  |  | Accounts Payable | koefran industries | \$1,200.00 |  |  |
| 82655 | 01/26/2023 | Open |  |  | Accounts Payable | L.N. CURTIS \& SONS | \$508.50 |  |  |
| 82656 | 01/26/2023 | Open |  |  | Accounts Payable | LAUTZENHISER'S STATIONERY, inc. | \$358.89 |  |  |
| 82657 | 01/26/2023 | Open |  |  | Accounts Payable | Lindsey, Anthony | \$147.79 |  |  |
| 82658 | 01/26/2023 | Open |  |  | Accounts Payable | Look Ahead Veterinary Services | \$607.17 |  |  |
| 82659 | 01/26/2023 | Open |  |  | Accounts Payable | Mark Thomas \& Company Inc | \$3,433.20 |  |  |
| 82660 | 01/26/2023 | Open |  |  | Accounts Payable | Mark Thomas \& Company Inc | \$4,488.82 |  |  |
| 82661 | 01/26/2023 | Open |  |  | Accounts Payable | Meyers Police K-9 Training, LLC | \$150.00 |  |  |
| 82662 | 01/26/2023 | Open |  |  | Accounts Payable | MOBILE MININC | \$475.93 |  |  |
| 82663 | 01/26/2023 | Open |  |  | Accounts Payable | MORGAN TREE SERVICE | \$1,500.00 |  |  |
| 82664 | 01/26/2023 | Open |  |  | Accounts Payable | Mt Shasta Spring Water Co., Inc | \$94.53 |  |  |

Payment Register

| From Payment Date: 1/1/2023 - To Payment Date: 1/31/2023 |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number | Date | Status | Void Reason | Reconciled/ Voided Date | Source | Payee Name | Transaction Amount | Reconciled Amount | Difference |
| AP - US Bank TOP AP Checking |  |  |  |  |  |  |  |  |  |
| Check |  |  |  |  |  |  |  |  |  |
| 82665 | 01/26/2023 | Open |  |  | Accounts Payable | NORTHGATE PETROLEUM CO | \$7,312.55 |  |  |
| 82666 | 01/26/2023 | Open |  |  | Accounts Payable | NORTHSTAR | \$1,996.00 |  |  |
| 82667 | 01/26/2023 | Open |  |  | Accounts Payable | O'REILLY AUTO PARTS | \$38.35 |  |  |
| 82668 | 01/26/2023 | Open |  |  | Accounts Payable | OFFICE DEPOT ACCT\#36233169 | \$161.40 |  |  |
| 82669 | 01/26/2023 | Open |  |  | Accounts Payable | PACIFIC GAS \& ELECTRIC | \$18,096.81 |  |  |
| 82670 | 01/26/2023 | Open |  |  | Accounts Payable | PARADISE IRRIGATION DIST | \$2,348.92 |  |  |
| 82671 | 01/26/2023 | Open |  |  | Accounts Payable | PARADISE POST | \$142.38 |  |  |
| 82672 | 01/26/2023 | Open |  |  | Accounts Payable | Riebes Auto Parts- Motorpool | \$728.27 |  |  |
| 82673 | 01/26/2023 | Open |  |  | Accounts Payable | SACRAMENTO REGIONAL PUBLIC SAFETY TRAINING CTR. | \$266.00 |  |  |
| 82674 | 01/26/2023 | Open |  |  | Accounts Payable | Servpro of South Shasta County | \$6,012.99 |  |  |
| 82675 | 01/26/2023 | Open |  |  | Accounts Payable | Shasta Cascade Chapter ICC | \$250.00 |  |  |
| 82676 | 01/26/2023 | Open |  |  | Accounts Payable | Shelby's Pest Control, Inc. | \$100.00 |  |  |
| 82677 | 01/26/2023 | Open |  |  | Accounts Payable | Specialized Pavement Marking, LLC | \$21,486.66 |  |  |
| 82678 | 01/26/2023 | Open |  |  | Accounts Payable | Spherion Staffing | \$3,659.78 |  |  |
| 82679 | 01/26/2023 | Open |  |  | Accounts Payable | SUTTER BUTTES COMMUNICATIONS, INC. | \$5,056.53 |  |  |
| 82680 | 01/26/2023 | Open |  |  | Accounts Payable | Tahoe Pure Water Co. | \$54.00 |  |  |
| 82681 | 01/26/2023 | Open |  |  | Accounts Payable | thomas ace hardware - Eng. Dept. | \$116.05 |  |  |
| 82682 | 01/26/2023 | Open |  |  | Accounts Payable | THOMAS ACE HARDWARE - FIRE DEPT. | \$39.52 |  |  |
| 82683 | 01/26/2023 | Open |  |  | Accounts Payable | THOMAS ACE HARDWARE - MOTORPOOL | \$69.81 |  |  |
| 82684 | 01/26/2023 | Open |  |  | Accounts Payable | THOMAS ACE HARDWARE - POLICE DEPT. | \$31.27 |  |  |
| 82685 | 01/26/2023 | Open |  |  | Accounts Payable | Tri Flame Propane | \$966.40 |  |  |
| 82686 | 01/26/2023 | Open |  |  | Accounts Payable | TUCKER PEST CONTROL INC | \$90.00 |  |  |
| 82687 | 01/26/2023 | Open |  |  | Accounts Payable | ULINE | \$113.62 |  |  |
| 82688 | 01/26/2023 | Open |  |  | Accounts Payable | VERIZON WIRELESS | \$247.32 |  |  |
| 82689 | 01/26/2023 | Open |  |  | Accounts Payable | VERIZON WIRELESS | \$342.09 |  |  |
| 82690 | 01/26/2023 | Open |  |  | Accounts Payable | Westlake Ace Hardware | \$36.08 |  |  |
| 82691 | 01/26/2023 | Open |  |  | Accounts Payable | WITtMEIER AUTO CENTER | \$47.87 |  |  |
| 82692 | 01/26/2023 | Open |  |  | Accounts Payable | CHUCK PATERSON TOYOTA | \$32,637.20 |  |  |
| Type Check Totals: |  |  |  |  | 216 Transactions |  | \$2,412,685.15 |  |  |
| EFT |  |  |  |  |  |  |  |  |  |
| 1381 | 01/05/2023 | Open |  |  | Accounts Payable | Employment development department | \$9,449.36 |  |  |
| 1382 | 01/05/2023 | Open |  |  | Accounts Payable | internal revenue service | \$34,019.03 |  |  |
| 1383 | 01/11/2023 | Open |  |  | Accounts Payable | CALPERS - RETIREMENT | \$51,961.61 |  |  |
| 1384 | 01/11/2023 | Open |  |  | Accounts Payable | ING LIFE INS \& ANNUITY COMPANY | \$8,475.76 |  |  |
| 1385 | 01/10/2023 | Open |  |  | Accounts Payable | CALPERS | \$148,501.49 |  |  |
| 1386 | 01/19/2023 | Open |  |  | Accounts Payable | Employment development department | \$10,772.10 |  |  |
| 1387 | 01/19/2023 | Open |  |  | Accounts Payable | internal revenue service | \$37,990.49 |  |  |
| 1388 | 01/24/2023 | Open |  |  | Accounts Payable | CALPERS-RETIREMENT | \$52,289.11 |  |  |
| 1389 | 01/24/2023 | Open |  |  | Accounts Payable | ING LIFE INS \& ANNUITY COMPANY | \$8,625.76 |  |  |
| Type EFT Totals: |  |  |  |  | 9 Transactions |  | \$362,084.71 |  |  |

town of paradise
Payment Register
From Payment Date: 1/1/2023 - To Payment Date: 1/31/2023

| Number | Date Status | Void Reason | Reconciled/ Voided Date | Source | Payee Name |  | Transaction Amount | Reconciled Amount |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\overline{\text { AP - US Bank TOP AP Checking }}$ |  |  |  |  |  |  |  |  |
| Check |  |  |  |  |  |  |  |  |
|  |  |  |  | Total | 216 | \$2,412,685.15 |  | \$0.00 |
|  |  |  | EFTs | Status | Count | Transaction Amount |  | Reconciled Amount |
|  |  |  |  | Open | 9 | \$362,084.71 |  | \$0.00 |
|  |  |  |  | Reconciled | 0 | \$0.00 |  | \$0.00 |
|  |  |  |  | Voided | 0 | \$0.00 |  | \$0.00 |
|  |  |  |  | Total | 9 | \$362,084.71 |  | \$0.00 |
|  |  |  | All | Status | Count | Transaction Amount |  | Reconciled Amount |
|  |  |  |  | Open | 225 | \$2,774,769.86 |  | \$0.00 |
|  |  |  |  | Reconciled | 0 | \$0.00 |  | \$0.00 |
|  |  |  |  | Voided | 0 | \$0.00 |  | \$0.00 |
|  |  |  |  | Stopped | 0 | \$0.00 |  | \$0.00 |
|  |  |  |  | Total | 225 | \$2,774,769.86 |  | \$0.00 |

Town of Paradise
Council Agenda Summary
Agenda Item: 2(c)

ORIGINATED BY:

REVIEWED BY:
SUBJECT:

February 14, 2023

Rick Manson, Paradise Fire Department Battalion Chief
Kevin Phillips, Town Manager
Deceleration of Certain Town Equipment from the Fire Department to be Surplus

## LONG TERM

No. RECOVERY PLAN:

COUNCIL ACTION REQUESTED:

1. Declare the attached itemized list of equipment from the Fire Department as surplus property; and,
2. Adopt Resolution No. 2023- , "A Resolution of the Town Council of the Town of Paradise Declaring Certain Property to be Surplus and Authorizing Disposal Thereof".

## Background:

The Paradise Fire Department has continued to replace equipment that has reached the end of its service life or has become outdated due to advances in technology. Practice has been that the Town retain replaced equipment to be used as a backup in the event of an equipment failure. The Fire Department is now in a position where the reserves are sufficient to support the Department's mission and the surplus list is recommended for disposal.

## Analysis:

The Fire Department is in possession of the items on the attached itemized list, Exhibit "A", and request authorization for disposal.

## Financial Impact:

Disposal of the declared items retain no value and will have no impact on the General Fund.

## Exhibit "A" Paradise Fire Department Surplus Items:

(1) Garmin Nuvi GPS Unit- No Serial or Town \#
(2) Go Pro Camera w/accessories- No Serial or Town \#
(7) Kenwood TK-272 Radios B3900282 7060054030500961 402012514020101470600539 70600538
(1) Kenwood TK-272 Radio Charging Base
(1) Porta Count Plus Gas Calibrator 080202006
(1) Industrial Scientific Gas Calibrator 11032xy003
(1) Minolta Maxxum 5xi Camera 17207950
(1) Qualcomm Global Star SAT Phone N107M35LL
(2) Motorola Programmer for Minitor 5 Radio Pagers
(20) Motorola Minitor 5 Radio Pagers 136WJW6813 136WHN2573 136WGS1190 136WHN2556 136WKQ4713 136WJW6809 136WKQ4716 136WHJ7505 136WKQ4714 136WJG4249 136WHA6117 136WJW6814 136WHN2557 136WGS9192 136WHN2552 136WJY4366 136WJY4362 136WJY4361 136WJY4363 0091
(15) Motorola Minitor 5 Radio Batteries-NO SERIAL OR TOWN \#
(13) Motorola Minitor 5 Radio Charging Base 07862066920786100076048080669305680 019740356509930029270087805675
(3) Relm BK Radio Battery Holder-NO SERIAL OR TOWN \#
(2) Kenwood KBP-1 Radio Battery Case-NO SERIAL OR TOWN \#
(3) Kenwood TK-260 Radio Batteries- NO SERIAL OR TOWN \#
(3) MSA TIC (Thermal Imaging Camera)
(4) MSA Evolution TIC (Thermal Imaging Camera) Base

## TOWN OF PARADISE

 RESOLUTION NO. 2023-04
## A RESOLUTION OF THE TOWN COUNCIL OF THE TOWN OF PARADISE DECLARING CERTAIN TOWN PROPERTY TO BE SURPLUS AND AUTHORIZING DISPOSAL THEREOF

WHEREAS, the Town of Paradise wishes to dispose of certain equipment from the Fire Department through public auction, internet sale, salvage or other legal method that is no longer functional or necessary to the Town's operations.

## NOW, THEREFORE, BE IT RESOLVED BY THE TOWN COUNCIL OF THE TOWN OF PARADISE AS FOLLOWS:

Section 1. The Town hereby declares Fire Department property surplus as set forth in Exhibit "A" attached hereto and made a part hereof by reference.

Section 2. Pursuant to Paradise Municipal Code Section 2.45.130, the Town Manager is hereby authorized to dispose of the property set forth in Section 1 through public auction, internet, sale, salvage, donation or other legal method.

PASSED AND ADOPTED by the Town Council of the Town of Paradise on this $14^{\text {th }}$ day of February, 2023, by the following vote:

AYES:
NOES:
ABSENT:
ABSTAIN:
By:


## ATTEST:

Dina Volenski, CMC, Town Clerk
APPROVED AS TO FORM:

Scott E. Huber, Town Attorney

## TOWN OF PARADISE RESOLUTION 2023-04

## EXHIBIT "A"

(1) Garmin Nuvi GPS Unit- No Serial or Town \#
(2) Go Pro Camera w/accessories- No Serial or Town \#
(7) Kenwood TK-272 Radios

B3900282 7060054030500961
402012514020101470600539
70600538
(1) Kenwood TK-272 Radio Charging Base
(1) Porta Count Plus Gas Calibrator 080202006
(1) Industrial Scientific Gas Calibrator 11032xy003
(1) Minolta Maxxum 5xi Camera 17207950
(1) Qualcomm Global Star SAT Phone N107M35LL
(2) Motorola Programmer for Minitor 5 Radio Pagers
(20) Motorola Minitor 5 Radio Pagers 136WJW6813 136WHN2573 136WGS1190 136WHN2556
136WKQ4713 136WJW6809 136WKQ4716 136WHJ7505
136WKQ4714 136WJG4249 136WHA6117 136WJW6814
136WHN2557 136WGS9192 136WHN2552 136WJY4366

136WJY4362 136WJY4361 136WJY4363 0091
(15) Motorola Minitor 5 Radio Batteries-NO SERIAL OR TOWN \#
(13) Motorola Minitor 5 Radio Charging Base
$\begin{array}{lllllll}07862 & 06692 & 07861 & 00076 & 04808 & 06693 & 05680\end{array}$
$0197403565099300292700878 \quad 05675$
(3) Relm BK Radio Battery Holder-NO SERIAL OR TOWN \#
(2) Kenwood KBP-1 Radio Battery Case-NO SERIAL OR TOWN \#
(3) Kenwood TK-260 Radio Batteries- NO SERIAL OR TOWN \#
(3) MSA TIC (Thermal Imaging Camera)
(4) MSA Evolution TIC Base

Town of Paradise
Council Agenda Summary
Agenda Item: 2(d)
Date: February 14, 2023

ORIGINATED BY:
REVIEWED BY:
SUBJECT:

LONG TERM RECOVERY PLAN:

Jessica Erdahl, Sr. Capital Projects Manager
Kevin Phillips, Town Manager
On-System Culvert Repair Project - Construction Contract Acceptance

Yes, Tier 1

## COUNCIL ACTION REQUESTED:

1. Consider adopting Resolution No. 2023-_, A Resolution of the Town Council of Town of Paradise accepting the work performed under the On-System Culvert Repair Project (Contract No. 7301.CON) Performed by Escheman Construction Company." (ROLL CALL VOTE)

## Background:

As a result of the 2018 Camp Fire, numerous on-system HDPE culverts were damaged. Immediately following the disaster, the Town identified fifteen (15) on-system culverts, initially, that needed emergency opening (EO) repairs. EO repairs were completed between December 2018 and June 2019. Subsequent assessments identified twenty-five (25) additional locations that were damaged and in need of permanent restoration.

The Town coordinated with Caltrans and Federal Highways Administration (FHWA) to secure Emergency Relief permanent restoration funding to repair the damaged infrastructure town wide. Through the Emergency Relief Program, the Town of Paradise has been approved for \$922,950 for the on-system culvert repair project. The approved project is located on Federal-Aid "OnSystem" roads - meaning the Town's primary collectors and arterials such as Skyway, Clark, Pearson, Elliott, Bille, Wagstaff, Pentz, etc.

On December 11, 2018, Paradise Town Council awarded a contract to Mark Thomas to perform engineering services on disaster related projects. Subsequently, in July 2020, task orders were issued to perform civil design services on the culvert repair project.

On October 12, 2021 Paradise Town Council adopted a resolution approving the Plans \& Specifications for the On-System culvert repair project. Council further directed staff to advertise for bids.

On January 11, 2022 Paradise Town Council awarded contract No 7301.CON On-System Culvert Repair Project to Escheman Construction Company in the amount of their base bid \$595,398.51 and approved contingency expenditures not exceeding 10\%.

## Analysis:

Construction efforts began on March 14, 2022 and the project was substantially complete on

September 27, 2022.

## Financial Impact:

The total estimated construction cost of the Project, including a 10\% contingency, was $\$ 652,738.36$. The actual total construction cost is $\$ 735,636.55$. Actual construction expenditures exceeded the $10 \%$ contingency due to additional damage caused by the Camp Fire not previously included in the contract quantities, as well as unforeseen environmental requirements. Escheman Construction Company's bid was below available construction funding; therefore, ER funds are available to cover these additional costs. Project expenditures and a funding summary is detailed below:

| Contract Items | Participating Reimb. Ratio | Total Cost |  | ER |  | Local Match |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Construction Contract - Actuals | 88.53\% | \$ | 735,636.55 | \$ | 651,259.04 | \$ | 84,377.51 |
| Construction Management - Estimated | 88.53\% | \$ | 110,000.00 | \$ | 97,383.00 | \$ | 12,617.00 |
| Total |  | \$ | 845,636.55 | \$ | 748,642.04 | \$ | 96,994.51 |
| Available Funding CON/CE |  | \$ | 847,900.00 | \$ | 750,645.87 | \$ | 97,254.13 |
| Balance |  | \$ | 2,263.45 | \$ | 2,003.83 | \$ | 259.62 |

## Attachments:

A. Resolutions

## RESOLUTION NO. 2023-05

# RESOLUTION OF THE TOWN COUNCIL OF TOWN OF PARADISE ACCEPTING THE WORK PERFORMED UNDER THE ON-SYSTEM CULVERT REPAIR PROJECT (CONTRACT NO. 7301.CON) PERFORMED BY ESCHEMAN CONSTRUCTION COMPANY 

WHEREAS, the Town of Paradise has heretofore contracted with Escheman Construction Company for certain work performed under that certain project known as the On-System Culvert Repair Project, being Contract No. 7301.CON; and

WHEREAS, said work of improvements, as called for by the contract between the Town of Paradise and Escheman Construction Company, referable to said project was completed on December 29, 2022 to the satisfaction of the Town; and

WHEREAS, there has been posted a bond insuring the work of improvements from a maintenance standpoint for a period of one year from and after completion.

NOW, THEREFORE, BE IT RESOLVED AND ORDERED by the Town Council of the Town of Paradise that it hereby accepts the work performed on those certain improvements, the subject of a contract between the Town of Paradise and Escheman Construction Company, known and referred to as the On-System Culvert Repair Project.

THE FOREGOING RESOLUTION WAS DULY AND REGULARLY INTRODUCED, PASSED, AND ADOPTED by the Town Council of the Town of Paradise at a regular meeting thereof held on the $14^{\text {th }}$ day of February 2023.

## AYES:

NOES:

## ABSENT:

## ATTEST:

Dina Volenski, CMC, Town Clerk

## APPROVED AS TO FORM:

[^0]Town of Paradise
Council Agenda Summary
Agenda Item: 2(e)
Date: February 14, 2023

ORIGINATED BY: Dina Volenski, Town Clerk<br>REVIEWED BY:<br>SUBJECT:<br>LONG TERM<br>Kevin Phillips, Town Manager<br>Amendment to positions listed in the Town of Paradise Conflict of Interest Code<br>No<br>RECOVERY PLAN:

## COUNCIL ACTION REQUESTED:

1. Adopt Resolution No. 2023-_, A Resolution of the Town Council of the Town of Paradise Amending and Re-Adopting Conflict of Interest Code for the Agencies and Departments of the Town of Paradise Which Incorporate by Reference the Fair Political Practices Commission's Standard Model Conflict of Interest.

## Background:

Government Code Section 87300, et seq., requires every local government agency to adopt and promulgate a Conflict of Interest Code that sets forth Town officials/employees who make decisions that might benefit them financially and, as such, must publicly disclose certain financial interests. The proposed resolution incorporates by reference the Fair Political Practices Commission adopted regulation (2 Cal. Code of Reg., Section 18730) which contains the terms of a standard model Conflict of Interest Code.

## Analysis:

Upon review, it was determined that Appendix B to the Town Conflict of Interest Code needs to be revised to amend and update several positions/titles due to the Reclassification and addition of new positions over the last two years and also update the appropriate disclosure categories.

## Financial Impact:

None

TOWN OF PARADISE RESOLUTION NO. 2023-

## A RESOLUTION OF THE TOWN COUNCIL OF THE TOWN OF PARADISE AMENDING AND READOPTING CONFLICT OF INTEREST CODE FOR THE AGENCIES AND DEPARTMENTS OF THE TOWN OF PARADISE WHICH INCORPORATE BY REFERENCE THE FAIR POLITICAL PRACTICES COMMISSION'S STANDARD MODEL CONFLICT OF INTEREST

WHEREAS, the Political Reform Act, Government Code Section 87300, et seq., requires every local government agency to adopt and promulgate a Conflict of Interest Code; and

WHEREAS, the Fair Political Practices Commission has adopted a regulation, 2 Cal. Code of Reg., Section 18730, which contains the terms of a standard model Conflict of Interest Code, which can be incorporated by reference, and which will be amended to conform to amendments in the Political Reform Act; and

WHEREAS, this Town Council has determined that the attached Appendices A, B and C accurately set forth those positions which should be designated and the categories of financial interests which should be made reportable;

## NOW, THEREFORE, BE IT RESOLVED BY THE TOWN COUNCIL OF THE TOWN OF PARADISE AS FOLLOWS:

1. The provisions of Title 2 of the California Code of Regulations Section 18730 and any amendment to it duly adopted by the Fair Political Practices Commission along with the attached Appendices in which Town officials and employees are designated and disclosure categories are set forth, are hereby amended and re-adopted and incorporated by reference and constitute the Conflict of Interest Codes of the Town of Paradise.
2. Persons holding designated positions shall file statements of economic interest pursuant to Section 18730. All designated employees shall file their statement with the Paradise Town Clerk to whom the Town Council hereby delegates the authority to carry out the duties of filing officer.
3. Statements of economic interest for members of the Town Council, Planning Commission, Town Manager, Town Attorney, Finance Director/Town Treasurer shall be filed with the Town Clerk who shall make and retain a copy and forward the original of these statements to the Fair Political Practices Commission.

TOWN OF PARADISE
RESOLUTION NO. 2023-
A RESOLUTION OF THE TOWN COUNCIL OF THE TOWN OF PARADISE AMENDING AND RE-ADOPTING CONFLICT OF INTEREST CODE FOR THE AGENCIES AND DEPARTMENTS OF THE TOWN OF PARADISE WHICH INCORPORATE BY REFERENCE THE FAIR POLITICAL PRACTICES COMMISSION'S STANDARD MODEL CONFLICT OF INTEREST

PASSED AND ADOPTED by the Town Council of the Town of Paradise this 14th day of February, 2023, by the following vote:

AYES:
NOES:
ABSENT:
NOT VOTING:

ATTEST:

Dina Volenski, CMC, Town Clerk

APPROVED AS TO FORM:

Scott E. Huber, Town Attorney

## APPENDIX A <br> RESOLUTION NO. 2023-

## GENERAL PROVISIONS

When a designated employee is required to disclose investments and sources of incomes, he/she need only disclose investments in business entities and sources of income which do business in the Town of Paradise, plan to do business in the Town of Paradise or have done business in the Town of Paradise within the past two years. In addition to other activities, a business entity is doing business within the Town of Paradise if it owns real property within the Town limits. When a designated employee is required to disclose interests in real property, he need only disclose real property which is located in whole or in part within, or no more than two miles outside, the boundaries of the Town of Paradise or within two miles of any land owned or used by the Town of Paradise.

Designated employees shall disclose their financial interest pursuant to the appropriate disclosure category as indicated in Appendix B.

## DISCLOSURE CATEGORIES

## Category 1: Designated Employees Whose Duties are Broad and Indefinable

All sources of income, interests in real property, and investments and business positions in business entities.

## Category 2: Designated Employees Whose Duties Involve Contracting or Purchasing

Contracts or makes purchases for entire agency: Investments and business positions in business entities and sources of income which provide services, supplies, materials, machinery or equipment of the type utilized by the agency.

Contracts or makes purchases for specific department within the agency: Investments and business positions in business entities and sources of income which provide services, supplies, materials, machinery or equipment of the type utilized by the designated employee's department or division.

## Category 3: Designated Employees Whose Duties Involve Regulatory, Permit, or Licensing Powers

All investments and business positions in business entities and sources of income which are subject to the regulatory permit or licensing authority of the Town.

## Category 4: Designated Employees Whose Decisions May Affect Real Property Interests

Investments and business positions in business entities and sources of income which engage in land development, construction or the acquisition or sale of real property, and all interests in real property.

## APPENDIX B RESOLUTION 2023-

Town Council ..... 1
Successor Agency to Paradise Redevelopment Agency Directors ..... 1
Planning Commissioners ..... 1
Measure V Oversight Committee ..... 1
Town Manager/Successor Agency Manager ..... 1
Assistant Town Manager ..... 1
Assistant to the Town Manager ..... 1
Town Attorney/Successor Agency Counsel ..... 1
Finance Director/Town Treasurer-/Successor Agency Finance Director ..... 1
Town Clerk/Elections Official/Successor Agency Clerk Secretary ..... 1
Human Resources/Risk Management Director ..... 1
Recovery and Economic Development Director ..... 1
Recovery and Economic Development Project Manager ..... 1
Housing Program Supervisor Manager ..... 4
Housing Program Analyst Technician ..... 4
Information Systems-Director ..... 2
Fleet Services Supervisor ..... 2
Senior Mechanic ..... 2
Chief of Police ..... 1
Police Lieutenant ..... 2
Fire Chief ..... 1
Fire Battalion Chief ..... 2
Building Official/ Fire Marshall ..... 3
Community Development Director (CDD) -Onsite ..... 1
Community Development Director (CDD) -Building ..... 1
Community Development Manager ..... 2
Assistant/Associate Planner ..... 1
Senior Planner ..... 1
Senior Supervising Code Enforcement Officer ..... 3
Code Enforcement Officer I/II ..... 3
CDD Permit Coordinator ..... 3
Fire Inspectors I/II ..... 3
Construction Inspector I/II ..... 3
Building/Onsite Inspector I/II ..... 3
Assistant Onsite Sanitary Official ..... 3
Senior Building/Onsite Inspector ..... 3
Senior Accountant ..... 3
Accounting Manager ..... 3
Accountant ..... 3
Public Works Director/Town Engineer ..... 1
Assistant/Associate Engineer ..... 3
Senior Planner ..... 1
Principal Engineer ..... 3
Engineering Division Manager ..... 3
Capital Projects Manager ..... 1
Senior Capital Project Manager ..... 1
Infrastructure Program Manager ..... 3
Public Works Manager ..... 2

## APPENDIX C <br> RESOLUTION NO. 2023-

## Consultant/Contract Employee Disclosure Category

Consultants/contract employees shall be included in the list of designated employees and shall disclose pursuant to the broadest disclosure category in the code subject to the following limitation:

The Town Attorney may determine in writing that a particular consultant, although a "designated position," is hired to perform a range of duties that is limited in scope and thus is not required to fully comply with the disclosure requirements described in this section. Such written determination shall include a description of the consultant's/contractor's duties and, based upon that description, a statement of the extent of disclosure requirements. The Town Attorney's determination is a public record and shall be retained for public inspection in the same manner and location as this Conflict of Interest Code.

Town of Paradise
Council Agenda Summary
Agenda Item: 2(f)
Date: February 14, 2023

ORIGINATED BY:
REVIEWED BY:
SUBJECT:

LONG TERM RECOVERY PLAN:

Jessica Erdahl, Sr. Capital Projects Manager
Kevin Phillips, Town Manager
Off-System Culvert Repair Project - Construction
Contract Acceptance
Yes, Tier 1

## COUNCIL ACTION REQUESTED:

1. Consider adopting Resolution No.2023-_, A Resolution of the Town Council of Town of Paradise Accepting the Work Performed Under the Off-System Culvert Repair Project (Contract No. 8408.CON) Performed by Allen Gill Construction, Inc. (ROLL CALL VOTE)

## Background:

As a result of the 2018 Camp Fire, numerous off-system HDPE culverts were damaged. Immediately following the disaster, the Town identified two (2) off-system culverts, initially, that needed emergency opening (EO) repairs. EO repairs were completed in January 2019. Subsequent assessments identified twenty-five (25) additional locations that were damaged and in need of permanent restoration.

On November 10, 2020, Paradise Town Council awarded master on-call contracts to Mark Thomas, Dokken Engineering, GHD, Inc., Wood Rodgers, Inc. and Dewberry Drake Haglan to perform on-call professional civil engineering services for a variety of local, state, and federallyfunded projects. Subsequently, in February 2021, a task order was issued to Dokken Engineering, to perform civil design services on the Off-System Culvert Replacement Project.

The overall scope of work for the Project can be summarized as follows:

- Repair Camp Fire damaged off-system culverts to achieve a pre-fire condition.

On June 14, 2022 Paradise Town Council adopted a resolution approving the Plans \& Specifications for the Off-System Culvert Repair Project. Council further directed staff to advertise for bids.

On July 12, 2022 Paradise Town Council awarded contract No 8408.CON On-System Culvert Repair Project to Allen Gill Construction, Inc. in the amount of their base bid \$478,901.00 and approved contingency expenditures not exceeding 10\%.

## Analysis:

Construction efforts began on October 18, 2022 and the project was substantially complete on January 20, 2023.

## Financial Impact:

The total estimated construction cost of the Project, including a 10\% contingency, was $\$ 526,791.10$. The actual total construction cost is $\$ 494,096.09$. Project expenditures and a funding summary is detailed below:

Staff Report Actuals- Construction and CM

| Contract Items | Participating <br> Reimb. Ratio | Total Cost |  | FEMA |  | Local Match |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Construction Contract - Actuals | 93.75\% | \$ | 494,096.09 | \$ | 463,215.08 | \$ | 30,881.01 |
| Construction Management - Estimated | 93.75\% | \$ | 100,000.00 | \$ | 93,750.00 | \$ | 6,250.00 |
| Total |  | \$ | 594,096.09 | \$ | 556,965.08 | \$ | 37,131.01 |
| Available Funding CON/CE |  | \$ | 607,790.00 | \$ | 569,803.13 | \$ | 37,986.88 |
| Balance |  | \$ | 13,693.91 | \$ | 12,838.04 | \$ | 855.87 |

## Attachments:

A. Resolutions

## RESOLUTION NO. 2023-07

## RESOLUTION OF THE TOWN COUNCIL OF TOWN OF PARADISE ACCEPTING THE WORK PERFORMED UNDER THE OFF-SYSTEM CULVERT REPAIR PROJECT (CONTRACT NO. 8408.CON) PERFORMED BY ALLEN GILL CONSTRUCTION, INC.

WHEREAS, the Town of Paradise has heretofore contracted with Allen Gill Construction, Inc. for certain work performed under that certain project known as the OffSystem Culvert Repair Project, being Contract No. 8408.CON; and

WHEREAS, said work of improvements, as called for by the contract between the Town of Paradise and Allen Gill Construction, Inc., referable to said project was completed on January 20, 2022 to the satisfaction of the Town; and

WHEREAS, there has been posted a bond insuring the work of improvements from a maintenance standpoint for a period of one year from and after completion.

NOW, THEREFORE, BE IT RESOLVED AND ORDERED by the Town Council of the Town of Paradise that it hereby accepts the work performed on those certain improvements, the subject of a contract between the Town of Paradise and Allen Gill Construction, Inc., known and referred to as the Off-System Culvert Repair Project.

THE FOREGOING RESOLUTION WAS DULY AND REGULARLY INTRODUCED, PASSED, AND ADOPTED by the Town Council of the Town of Paradise at a regular meeting thereof held on the $14^{\text {th }}$ day of February 2023.

AYES:

NOES:

ABSENT:

Greg Bolin, Mayor

ATTEST:

Dina Volenski, CMC, Town Clerk

APPROVED AS TO FORM:

Scott E. Huber, Town Attorney

Town of Paradise
Council Agenda Summary
Agenda Item: 2(g)

Date: February 14, 2023

ORIGINATED BY:
REVIEWED BY:
SUBJECT:

Ross Gilb, Finance Director/Town Treasurer
Kevin Phillips, Town Manager
Quarterly Investment Report

## COUNCIL ACTION REQUESTED:

Review and file the 2nd Quarter Investment Report for the Fiscal Year Ending June 30, 2023.

## Background:

Attached is the report on the Town's cash and investments for the quarter ended December 31, 2022.

A US Bank checking account is currently being used for payroll, accounts payable and other operating purposes. Most accounts payable disbursements are drawn through checks, and most payroll disbursements are processed through direct deposit. Deposits are fully collateralized. With COVID-19 and the impacts to the economy, the credit rate is currently less than $0.01 \%$.

The Town received a $\$ 5$ million cash advance from CaIOES in December 2018 for projects and restoration that will be funded through FEMA's public assistance grant program. As FEMA eligible expenses and/or projects are completed, funds are transferred to the Town operating checking account to fund those activities. The remaining advance funds are required to be held in a non-interest-bearing account. A US Bank non-interest-bearing checking account was established to track the funds. As of December 31, 2022, the remaining funds yet to be drawn upon was $\$ 1,672,356$. Additional funds are expected to be received into this account during the current and following fiscal years as the Town secures additional reimbursement for ongoing FEMA public assistance grants.

The Town has historically primarily utilized the State of California managed Local Agency Investment Fund (LAIF) for investment of General Fund cash in excess of immediately needed operating capital. LAIF provides for same day liquidity as funds can be transferred electronically through computer authorization between LAIF and the Town checking account. LAIF has also provided historically competitive yields, with an average return of $2.07 \%$ for the quarter ended December 31, 2022. LAIF has been a great investment option for the Town's General Fund short term reserves.

To provide additional opportunity for asset diversification, during the quarter ended September 30, 2022, the Town began utilizing the California Cooperative Liquid Assets Securities System
(California CLASS) in conjunction with the aforementioned investment accounts to hold shortterm reserves. California CLASS is a joint exercise of powers entity authorized under Section 6509.7, California Government Code. California CLASS is a pooled investment option that was created via a joint exercise of powers agreement (JPA Agreement) by and among California public agencies. California CLASS provides the Town with a convenient method for investing in highquality, short- to medium-term securities carefully selected to optimize interest earnings while maximizing safety and liquidity. The California CLASS Prime fund has provided the Town with an opportunity to strengthen and diversify its cash management programs in accordance with the safety, liquidity, and yield hierarchy that governs the investment of public funds. During the second quarter of the fiscal year, CLASS has provided a very competitive yield, with an average return of 3.69\% for the quarter ended December 31, 2022.

In July 2020, the Town received a net settlement from PG\&E related to the 2018 Camp Fire in the amount of $\$ 219,187,262$. Since that time, the Town continues to utilize two investment vehicles to manage these funds. Securities purchases are held in a custodial account with US Bank. The Town has contracted with Meeder Investments to assist with management of these funds. Excess funds that are not invested in specific securities are held in the State of California managed Local Agency Investment Fund (LAIF). These funds are held separate from the Town's General Fund LAIF account. Future use of these funds continues to be evaluated through a longterm fiscal sustainability model. Based on current rebuild rates and revenue growth trends, at this time it is expected that at least $80 \%$ of the total fund balance will be required to be utilized for long-term revenue backfill to ensure continued fiscal sustainability.

During the second quarter of the 2022-23 fiscal year, the Town transferred a total of $\$ 8,400,000$ from the combined LAIF and CLASS accounts to the Town's US Bank operating account in order to fund operations for the quarter.

In June of 2011, the Town established an irrevocable trust to begin funding the future obligations associated with retiree health as required by GASB 45. The funds are being managed by SelfInsured Schools of California (SISC) and can only be used for the payment of retiree health benefits.

## Financial Impact:

Total investment earnings for the quarter ended December 31, 2022 was $\$ 505,702$. Total investment earnings for the 2022-23 fiscal year to date was $\$ 841,726$, which trends in line with total budgeted investment earnings for the 2022-23 fiscal year in the amount of $\$ 1,100,000$.

For Quarter Ended December 31, 2022

| Investment | Type | For Quarter Ended December 31, 2022 |  |  |  |  | For Quarter Ended September 30, 2022 |  |  | Net Change |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Yield | Book Value | Market Value |  | Interest Earnings | Yield | Book Value | Market Value |  |
| US Bank | Checking | 0.00\% | 2,377,091.20 | 2,377,091.20 |  |  | 0.00\% | 2,945,582.69 | 2,945,582.69 | (568,491.49) |
| US Bank - Cal OES Advance | Checking | 0.00\% | 1,672,356.86 | 1,672,356.86 |  | - | 0.00\% | 1,672,356.86 | 1,672,356.86 |  |
| Local Agency Investment Fund (LAIF) (General Fund) | Savings | 2.07\% | 3,294,671.13 | 3,233,354.86 | * | 17,211.25 | 1.35\% | 3,283,498.59 | 3,220,327.24 | 13,027.62 |
| Local Agency Investment Fund (LAIF) (PG\&E Settlement Fund) | Savings | 2.07\% | 38,525.65 | 37,808.66 |  | 8,595.44 | 1.35\% | 5,404,571.20 | 5,300,592.45 | (5,262,783.79) |
| California CLASS Prime Fund | Savings | 3.69\% | 6,091,237.19 | 6,090,935.67 | ** | 69,816.34 | 2.14\% | 7,021,420.85 | 7,020,309.64 | (929,373.97) |
| US Bank Custodial Investment Account | Various**** | 1.20\% | 198,230,559.54 | 183,713,261.86 | *** | 410,079.59 | 1.02\% | 199,845,464.82 | 184,132,633.48 | (419,371.62) |
| SISC GASB 45 Trust B | Various | 0.00\% | 254,534.13 | 254,534.13 |  | - | 0.00\% | 254,534.13 | 254,534.13 | - |
| Fiscal Agents \& Petty Cash | Other | 0.00\% | 1,350.00 | 1,350.00 |  | - - | 0.00\% | 1,350.00 | 1,350.00 | (71609825) |
|  | Totals |  | 211,960,325.70 | 197,380,693.24 |  | 505,702.62 |  | 220,428,779.14 | 204,547,686.49 | (7,166,993.25) |


| Total Quarterly Earnings on Accrual Basis |
| :--- |
| Year-to-Date Earnings (July 1st - June 30th |

*Market Value determined by LAIF
** Market Value determined by California CLASS Prime Fund
.**Market Value determined by US Bank
."** Detail investment type listing attached

In compliance with the California Code Section 53646; the Treasurer of the Town of Paradise herby certifies
that sufficient investment liquidity and anticipated revenues are available to meet the Town's budgeted expenditure requirements for the next six months.

Investments in the report meet the requirements of the Town of Paradise's adopted investment policy.
Respectfully submitted
/s/
Ross Gilb
Finance Director/Town Treasurer

## TOWN OF PARADISE

INVESTMENT BALANCES AT A GLANCE
For Quarter Ended December 31, 2022

| Investment Type | Total |  |
| :--- | ---: | ---: |
| LAIF (General) | $\$$ | $3,233,354.86$ |
| LAIF (PGE Settlement Funds) |  | $37,808.66$ |
| California CLASS Prime Fund |  | $6,090,935.67$ |
| US Bank Bank Operations |  | $2,377,091.20$ |
| US Bank Custodial Investment Fund | $183,713,261.86$ |  |
| Cal OES Advance | $1,672,356.86$ |  |
| GASB 45 Trust |  | $254,534.13$ |
| Petty Cash |  | $1,350.00$ |
| Grand Total | $\$$ | $197,380,693.24$ |



## TOWN OF PARADISE

Timeline of Investment Market Value Balances (in millions)
From Fiscal Year 2017/18 to Fiscal Year 2022/23


Town of Paradise Operating Account

## PORTFOLIO SUMMARY

MEEDER

## As of December 31, 2022

Beginning Book Value
Contributions

## Withdrawals

Prior Month Management Fees
Prior Month Custodian Fees
Realized Gains/Losses
199,845,464.85
(2,000,000.00)
$(16,500.00)$
$(4,600.87)$
68,925.62
Purchased Interest
$(3,884.03)$
Gross Interest Earnings
341,153.97
198,230,559.54

PORTFOLIO CHARACTERISTICS
Portfolio Yield to Maturity $1.20 \%$
Portfolio Effective Duration 2.01 yrs

Weighted Average Maturity 2.09 yrs

## PROJECTED MONTHLY INCOME SCHEDULE

300,000


## MATURITY DISTRIBUTION



CREDIT QUALITY


Town of Paradise Operating Account

As of December 31, 2022

| CUSIP | Security Description | Trade Date/ Settlement Date | Par Value | Principal Cost/ Purchased Interest | Total Cost | Yield at Cost | Maturity/ Duration | Market Price/ Market Value | Unrealized Gain/ (Loss) | $\%$ of Assets | Moody's/ S\&P Rating |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cash and Cash Equivalents |  |  |  |  |  |  |  |  |  |  |  |
| 00266CASH | LAIF-PG\&E | $\begin{aligned} & 12 / 30 / 2022 \\ & 12 / 30 / 2022 \end{aligned}$ | \$38,525.65 | \$38,525.65 | \$38,525.65 | 2.23\% | $\begin{aligned} & 0.003 \\ & 0.003 \end{aligned}$ | $\begin{array}{r} \$ 1.00 \\ \$ 38,525.65 \end{array}$ | \$0.00 | 0.02\% | NR |
| 31846 V 567 | First American Funds, Inc. | $\begin{aligned} & 12 / 30 / 2022 \\ & 12 / 30 / 2022 \end{aligned}$ | \$21,977.55 | \$21,977.55 | \$21,977.55 | 4.06\% | $\begin{aligned} & 0.003 \\ & 0.003 \end{aligned}$ | $\begin{array}{r} \$ 1.00 \\ \$ 21,977.55 \end{array}$ | \$0.00 | 0.01\% | AAAm |
| 00343CASH | California CLASS Prime Fund | $\begin{aligned} & 12 / 30 / 2022 \\ & 12 / 30 / 2022 \end{aligned}$ | \$6,091,237.19 | \$6,091,237.19 | \$6,091,237.19 | 4.20\% | $\begin{aligned} & 0.003 \\ & 0.003 \end{aligned}$ | $\begin{array}{r} \$ 1.00 \\ \$ 6,091,237.19 \end{array}$ | \$0.00 | 3.21\% |  |
|  | SubTotal |  | \$6,151,740.39 | \$6,151,740.39 | \$6,151,740.39 | 4.19\% |  | \$6,151,740.39 | \$0.00 | 3.24\% |  |

## Agency Bond

| 3133ENEX4 | $\begin{aligned} & \text { FFCB 0.550\% } \\ & 11 / 24 / 2023 \end{aligned}$ | $\begin{aligned} & 1 / 12 / 2022 \\ & 1 / 13 / 2022 \end{aligned}$ | \$2,000,000.00 | \$1,986,954.00 | \$1,986,954.00 | 0.90\% | $\begin{aligned} & 0.901 \\ & 0.879 \end{aligned}$ | $\begin{array}{r} \$ 96.10 \\ \$ 1,921,940.00 \end{array}$ | (\$65,014.00) | 1.01\% | Aaa <br> AA+ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3133EMLV2 | $\begin{aligned} & \text { FFCB 0.270\% } \\ & 04 / 05 / 2024 \end{aligned}$ | $\begin{aligned} & 1 / 5 / 2021 \\ & 1 / 6 / 2021 \end{aligned}$ | \$5,000,000.00 | \$4,996,250.00 | \$4,996,250.00 | 0.29\% | $\begin{aligned} & 1.266 \\ & 1.234 \end{aligned}$ | $\begin{array}{r} \$ 94.23 \\ \$ 4,711,350.00 \end{array}$ | (\$284,900.00) | 2.48\% | Aaa AA+ |
| 3135G06E8 | $\begin{aligned} & \text { FNMA 0.420\% } \\ & 11 / 18 / 2024 \end{aligned}$ | $\begin{aligned} & 11 / 23 / 2020 \\ & 11 / 24 / 2020 \end{aligned}$ | \$5,000,000.00 | \$4,996,250.00 | \$4,996,250.00 | 0.44\% | $\begin{aligned} & 1.888 \\ & 1.836 \end{aligned}$ | $\begin{array}{r} \$ 92.08 \\ \$ 4,603,900.00 \end{array}$ | (\$392,350.00) | 2.43\% | Aaa AA+ |
| 3134GXDZ4 | $\begin{aligned} & \text { FMCC 0.450\% } \\ & 11 / 25 / 2024 \end{aligned}$ | $\begin{aligned} & 11 / 25 / 2020 \\ & 11 / 30 / 2020 \end{aligned}$ | \$3,000,000.00 | \$2,999,550.00 | \$2,999,550.00 | 0.45\% | $\begin{aligned} & 1.907 \\ & 1.856 \end{aligned}$ | $\begin{array}{r} \$ 92.27 \\ \$ 2,768,070.00 \end{array}$ | (\$231,480.00) | 1.46\% | Aaa AA+ |
| 3134GXJQ8 | FMCC 0.320\% 01/06/2025 | $\begin{aligned} & 1 / 27 / 2021 \\ & 1 / 28 / 2021 \end{aligned}$ | \$1,750,000.00 | \$1,749,125.00 | \$1,749,125.00 | 0.33\% | $\begin{aligned} & 2.022 \\ & 1.967 \end{aligned}$ | $\begin{array}{r} \$ 91.66 \\ \$ 1,604,085.00 \end{array}$ | (\$145,040.00) | 0.84\% | Aaa AA+ |
| 3130AKQF6 | $\begin{aligned} & \text { FHLB 0.400\% } \\ & 01 / 27 / 2025 \end{aligned}$ | $\begin{aligned} & 1 / 19 / 2021 \\ & 1 / 27 / 2021 \end{aligned}$ | \$2,500,000.00 | \$2,499,250.00 | \$2,499,250.00 | 0.41\% | $\begin{aligned} & 2.079 \\ & 2.020 \end{aligned}$ | $\begin{array}{r} \$ 91.52 \\ \$ 2,288,100.00 \end{array}$ | (\$211,150.00) | 1.21\% | Aaa AA+ |
| 3134GXKU7 | $\begin{aligned} & \text { FMCC 0.375\% } \\ & 01 / 29 / 2025 \end{aligned}$ | $\begin{aligned} & 1 / 11 / 2021 \\ & 1 / 29 / 2021 \end{aligned}$ | \$3,500,000.00 | \$3,495,450.00 | \$3,495,450.00 | 0.41\% | $\begin{aligned} & 2.085 \\ & 2.027 \end{aligned}$ | $\begin{array}{r} \$ 91.55 \\ \$ 3,204,285.00 \end{array}$ | (\$291,165.00) | 1.69\% | Aaa AA+ |
| 3134GXCV4 | FMCC 0.500\% 05/30/2025 | $\begin{aligned} & 11 / 19 / 2020 \\ & 11 / 30 / 2020 \end{aligned}$ | \$5,000,000.00 | \$5,000,000.00 | \$5,000,000.00 | 0.50\% | $\begin{aligned} & 2.416 \\ & 2.348 \end{aligned}$ | $\begin{array}{r} \$ 90.77 \\ \$ 4,538,300.00 \end{array}$ | (\$461,700.00) | 2.39\% | Aaa AA+ |
| 3133EMDZ2 | $\begin{aligned} & \text { FFCB 0.520\% } \\ & 10 / 21 / 2025 \end{aligned}$ | $\begin{aligned} & 11 / 19 / 2020 \\ & 11 / 20 / 2020 \end{aligned}$ | \$5,000,000.00 | \$4,986,000.00 | \$4,986,000.00 | 0.58\% | $\begin{aligned} & 2.811 \\ & 2.722 \end{aligned}$ | $\begin{array}{r} \$ 89.62 \\ \$ 4,480,950.00 \end{array}$ | (\$505,050.00) | 2.36\% | Aaa <br> AA+ |
| 3135GA2A8 | FNMA 0.580\% 10/28/2025 | $\begin{aligned} & 12 / 21 / 2020 \\ & 12 / 22 / 2020 \end{aligned}$ | \$5,000,000.00 | \$5,013,800.00 | \$5,013,800.00 | 0.43\% | $\begin{aligned} & 2.830 \\ & 2.737 \end{aligned}$ | $\begin{array}{r} \$ 89.73 \\ \$ 4,486,300.00 \end{array}$ | (\$527,500.00) | 2.36\% | Aaa AA+ |
| 3134GXFA7 | FMCC 0.650\% <br> 11/26/2025 | $\begin{aligned} & 11 / 24 / 2020 \\ & 11 / 30 / 2020 \end{aligned}$ | \$3,000,000.00 | \$3,000,000.00 | \$3,000,000.00 | 0.65\% | $\begin{aligned} & 2.910 \\ & 2.810 \end{aligned}$ | $\begin{array}{r} \$ 89.68 \\ \$ 2,690,490.00 \end{array}$ | (\$309,510.00) | 1.42\% | Aaa AA+ |
| 3134GXFV1 | $\begin{aligned} & \text { FMCC 0.625\% } \\ & 12 / 17 / 2025 \end{aligned}$ | $\begin{gathered} 12 / 3 / 2020 \\ 12 / 17 / 2020 \end{gathered}$ | \$2,500,000.00 | \$2,498,750.00 | \$2,498,750.00 | 0.64\% | $\begin{aligned} & 2.967 \\ & 2.868 \end{aligned}$ | $\begin{array}{r} \$ 89.10 \\ \$ 2,227,600.00 \end{array}$ | (\$271,150.00) | 1.17\% | Aaa AA+ |

Town of Paradise Operating Account

As of December 31, 2022

| CUSIP | Security Description | Trade Date/ Settlement Date | Par Value | Principal Cost/ Purchased Interest | Total Cost | Yield at Cost | Maturity/ Duration | Market Price/ Market Value | Unrealized Gain/ (Loss) | $\%$ of Assets | $\begin{array}{\|c} \text { Moody's/ } \\ \text { S\&P } \\ \text { Rating } \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3135G06Q1 | FNMA 0.640\% $12 / 30 / 2025$ | $\begin{aligned} & 12 / 23 / 2020 \\ & 12 / 30 / 2020 \end{aligned}$ | \$3,000,000.00 | \$3,003,750.00 | \$3,003,750.00 | 0.61\% | $\begin{aligned} & 3.003 \\ & 2.880 \end{aligned}$ | $\begin{array}{r} \$ 88.96 \\ \$ 2,668,650.00 \end{array}$ | $(\$ 335,100.00)$ | 1.41\% | Aaa AA+ |
| 3133EMMR0 | $\begin{aligned} & \text { FFCB 0.470\% } \\ & 01 / 12 / 2026 \end{aligned}$ | $\begin{gathered} 1 / 5 / 2021 \\ 1 / 12 / 2021 \end{gathered}$ | \$2,340,000.00 | \$2,336,536.80 | \$2,336,536.80 | 0.50\% | $\begin{aligned} & 3.038 \\ & 2.937 \end{aligned}$ | $\begin{array}{r} \$ 88.82 \\ \$ 2,078,458.20 \end{array}$ | (\$258,078.60) | 1.09\% | Aaa AA+ |
| 31422B6K1 | AGM 0.480\% 01/15/2026 | $\begin{gathered} \text { 1/7/2021 } \\ 1 / 15 / 2021 \end{gathered}$ | \$3,500,000.00 | \$3,496,500.00 | \$3,496,500.00 | 0.50\% | $\begin{aligned} & 3.047 \\ & 2.955 \end{aligned}$ | $\begin{array}{r} \$ 89.61 \\ \$ 3,136,175.00 \end{array}$ | (\$360,325.00) | 1.65\% |  |
| 3135G06R9 | $\begin{aligned} & \text { FNMA 0.550\% } \\ & 01 / 28 / 2026 \end{aligned}$ | $\begin{gathered} 1 / 5 / 2021 \\ 1 / 28 / 2021 \end{gathered}$ | \$3,000,000.00 | \$3,000,000.00 | \$3,000,000.00 | 0.55\% | $\begin{aligned} & 3.082 \\ & 2.974 \end{aligned}$ | $\begin{array}{r} \$ 88.91 \\ \$ 2,667,330.00 \end{array}$ | (\$332,670.00) | 1.41\% | Aaa AA+ |
| 3130ATUS4 | $\begin{aligned} & \text { FHLB 4.250\% } \\ & \text { 12/10/2027 } \end{aligned}$ | $\begin{aligned} & 12 / 20 / 2022 \\ & 12 / 21 / 2022 \end{aligned}$ | \$700,000.00 | $\begin{array}{r} \$ 710,829.00 \\ \$ 3,884.03 \end{array}$ | \$714,713.03 | 3.90\% | $\begin{aligned} & 4.948 \\ & 4.394 \end{aligned}$ | $\begin{array}{r} \$ 100.79 \\ \$ 705,509.00 \end{array}$ | (\$5,320.00) | 0.37\% | Aaa AA+ |
|  | SubTotal |  | \$55,790,000.00 | $\begin{array}{r} \$ 55,768,994.80 \\ \$ 3,884.03 \end{array}$ | \$55,772,878.83 | 0.54\% |  | \$50,781,492.20 | (\$4,987,502.60) | 26.75\% |  |
| Commercial | aper |  |  |  |  |  |  |  |  |  |  |
| 62479MNQ2 | MUFG Bank, Ltd. 01/24/2023 | $\begin{aligned} & 8 / 24 / 2022 \\ & 8 / 25 / 2022 \end{aligned}$ | \$1,000,000.00 | \$985,982.22 | \$985,982.22 | 3.37\% | $\begin{aligned} & 0.068 \\ & 0.070 \end{aligned}$ | $\begin{array}{r} \$ 99.69 \\ \$ 996,940.00 \end{array}$ | \$10,957.78 | 0.53\% | $\begin{aligned} & \mathrm{P}-1 \\ & \mathrm{~A}-1 \end{aligned}$ |
| 7426M3NW5 | Private Export <br> Funding Corporation $01 / 30 / 2023$ | $\begin{aligned} & 11 / 9 / 2022 \\ & 11 / 9 / 2022 \end{aligned}$ | \$1,100,000.00 | \$1,089,551.83 | \$1,089,551.83 | 4.21\% | $\begin{aligned} & 0.085 \\ & 0.086 \end{aligned}$ | $\begin{array}{r} \$ 99.62 \\ \$ 1,095,765.00 \end{array}$ | \$6,213.17 | 0.58\% | $\begin{aligned} & \mathrm{P}-1 \\ & \mathrm{NR} \end{aligned}$ |
| 09659KP61 | BNP Paribas 02/06/2023 | $\begin{aligned} & 8 / 4 / 2022 \\ & 8 / 5 / 2022 \end{aligned}$ | \$1,400,000.00 | \$1,375,466.94 | \$1,375,466.94 | 3.47\% | $\begin{aligned} & 0.104 \\ & 0.104 \end{aligned}$ | $\begin{array}{r} \$ 99.53 \\ \$ 1,393,392.00 \end{array}$ | \$17,925.06 | 0.73\% | $\begin{aligned} & \mathrm{P}-1 \\ & \mathrm{~A}-1 \end{aligned}$ |
| 69372BPE4 | PACCAR Financial Corp. 02/14/2023 | $\begin{aligned} & 11 / 14 / 2022 \\ & 11 / 14 / 2022 \end{aligned}$ | \$1,100,000.00 | \$1,087,912.22 | \$1,087,912.22 | 4.35\% | $\begin{aligned} & 0.126 \\ & 0.126 \end{aligned}$ | $\begin{array}{r} \$ 99.43 \\ \$ 1,093,719.00 \end{array}$ | \$5,806.78 | 0.58\% | $\begin{aligned} & \mathrm{P}-1 \\ & \mathrm{~A}-1 \end{aligned}$ |
| 62479MPQ0 | MUFG Bank, Ltd. 02/24/2023 | $\begin{aligned} & 8 / 24 / 2022 \\ & 8 / 25 / 2022 \end{aligned}$ | \$1,000,000.00 | \$982,310.00 | \$982,310.00 | 3.54\% | $\begin{aligned} & 0.153 \\ & 0.152 \end{aligned}$ | $\begin{array}{r} \$ 99.31 \\ \$ 993,050.00 \end{array}$ | \$10,740.00 | 0.52\% | $\begin{aligned} & \mathrm{P}-1 \\ & \mathrm{~A}-1 \end{aligned}$ |
| 2254EBPT2 | $\begin{aligned} & \text { Credit Suisse AG } \\ & 02 / 27 / 2023 \end{aligned}$ | $\begin{aligned} & 6 / 2 / 2022 \\ & 6 / 2 / 2022 \end{aligned}$ | \$875,000.00 | \$857,937.50 | \$857,937.50 | 2.65\% | $\begin{aligned} & 0.162 \\ & 0.160 \end{aligned}$ | $\begin{array}{r} \$ 99.27 \\ \$ 868,586.25 \end{array}$ | \$10,648.75 | 0.46\% | $\begin{aligned} & \text { NR } \\ & \text { A-2 } \end{aligned}$ |
| 53948BQL6 | Lloyds Bank Corporate Markets PLC 03/20/2023 | $\begin{aligned} & 8 / 24 / 2022 \\ & 8 / 25 / 2022 \end{aligned}$ | \$2,000,000.00 | \$1,959,175.00 | \$1,959,175.00 | 3.62\% | $\begin{aligned} & 0.219 \\ & 0.217 \end{aligned}$ | $\begin{array}{r} \$ 98.98 \\ \$ 1,979,640.00 \end{array}$ | \$20,465.00 | 1.04\% | $\begin{aligned} & \mathrm{P}-1 \\ & \mathrm{~A}-1 \end{aligned}$ |
| 62479MRQ8 | MUFG Bank, Ltd. 04/24/2023 | $\begin{aligned} & 8 / 24 / 2022 \\ & 8 / 25 / 2022 \end{aligned}$ | \$1,300,000.00 | \$1,268,277.83 | \$1,268,277.83 | 3.72\% | $\begin{aligned} & 0.315 \\ & 0.310 \end{aligned}$ | $\begin{array}{r} \$ 98.50 \\ \$ 1,280,435.00 \end{array}$ | \$12,157.17 | 0.67\% | $\begin{aligned} & \mathrm{P}-1 \\ & \mathrm{~A}-1 \end{aligned}$ |
| 62479MRR6 | MUFG Bank, Ltd. 04/25/2023 | $\begin{aligned} & 8 / 25 / 2022 \\ & 8 / 26 / 2022 \end{aligned}$ | \$1,750,000.00 | \$1,707,297.08 | \$1,707,297.08 | 3.72\% | $\begin{aligned} & 0.318 \\ & 0.312 \end{aligned}$ | $\begin{array}{r} \$ 98.48 \\ \$ 1,723,435.00 \end{array}$ | \$16,137.92 | 0.91\% | $\begin{aligned} & \mathrm{P}-1 \\ & \mathrm{~A}-1 \end{aligned}$ |
| 62479MS12 | MUFG Bank, Ltd. 05/01/2023 | $\begin{aligned} & 8 / 4 / 2022 \\ & 8 / 5 / 2022 \end{aligned}$ | \$500,000.00 | \$486,624.72 | \$486,624.72 | 3.68\% | $\begin{aligned} & 0.334 \\ & 0.328 \end{aligned}$ | $\begin{array}{r} \$ 98.35 \\ \$ 491,765.00 \end{array}$ | \$5,140.28 | 0.26\% | $\begin{aligned} & \mathrm{P}-1 \\ & \mathrm{~A}-1 \end{aligned}$ |

Town of Paradise Operating Account

As of December 31, 2022

| CUSIP | Security Description | Trade Date/ Settlement Date | Par Value | Principal Cost/ Purchased Interest | Total Cost | Yield at Cost | Maturity/ Duration | Market Price/ Market Value | Unrealized Gain/ (Loss) | \% of Assets | $\begin{gathered} \text { Moody's/ } \\ \text { S\&P } \\ \text { Rating } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 21687BSP7 | Cooperatieve Rabobank U.A. 05/23/2023 | $\begin{aligned} & 8 / 24 / 2022 \\ & 8 / 26 / 2022 \end{aligned}$ | \$1,500,000.00 | \$1,459,050.00 | \$1,459,050.00 | 3.74\% | $\begin{aligned} & 0.395 \\ & 0.387 \end{aligned}$ | $\begin{array}{r} \$ 98.06 \\ \$ 1,470,840.00 \end{array}$ | \$11,790.00 | 0.77\% | $\begin{aligned} & \mathrm{P}-1 \\ & \mathrm{~A}-1 \end{aligned}$ |
| 46640QTC5 | $\begin{aligned} & \text { J.P. Morgan } \\ & \text { Securities LLC } \\ & 06 / 12 / 2023 \end{aligned}$ | $\begin{aligned} & 10 / 11 / 2022 \\ & 10 / 11 / 2022 \end{aligned}$ | \$2,700,000.00 | \$2,615,454.00 | \$2,615,454.00 | 4.77\% | $\begin{aligned} & 0.449 \\ & 0.440 \end{aligned}$ | $\begin{array}{r} \$ 97.73 \\ \$ 2,638,737.00 \end{array}$ | \$23,283.00 | 1.39\% | $\begin{aligned} & \mathrm{P}-1 \\ & \mathrm{~A}-1 \end{aligned}$ |
| 46640QTG6 | $\begin{aligned} & \text { J.P. Morgan } \\ & \text { Securities LLC } \\ & 06 / 16 / 2023 \end{aligned}$ | $\begin{aligned} & 9 / 19 / 2022 \\ & 9 / 19 / 2022 \end{aligned}$ | \$3,510,000.00 | \$3,396,276.00 | \$3,396,276.00 | 4.46\% | $\begin{aligned} & 0.460 \\ & 0.451 \end{aligned}$ | $\begin{array}{r} \$ 97.68 \\ \$ 3,428,427.60 \end{array}$ | \$32,151.60 | 1.81\% | $\begin{aligned} & \mathrm{P}-1 \\ & \mathrm{~A}-1 \end{aligned}$ |
| 21687BVE8 | Cooperatieve Rabobank U.A. 08/14/2023 | $\begin{aligned} & 12 / 12 / 2022 \\ & 12 / 13 / 2022 \end{aligned}$ | \$1,240,000.00 | \$1,197,305.42 | \$1,197,305.42 | 5.26\% | $\begin{aligned} & 0.622 \\ & 0.607 \end{aligned}$ | $\begin{array}{r} \$ 96.75 \\ \$ 1,199,737.20 \end{array}$ | \$2,431.78 | 0.63\% | $\begin{aligned} & \mathrm{P}-1 \\ & \mathrm{~A}-1 \end{aligned}$ |
|  | SubTotal |  | \$20,975,000.00 | \$20,468,620.76 | \$20,468,620.76 | 4.03\% |  | \$20,654,469.05 | \$185,848.29 | 10.88\% |  |
| Corporate Bond |  |  |  |  |  |  |  |  |  |  |  |
| 06406RAM9 | The Bank of New York Mellon Corporation 1.850\% 01/27/2023 | $\begin{gathered} 3 / 8 / 2022 \\ 3 / 10 / 2022 \end{gathered}$ | \$500,000.00 | \$501,480.00 | \$501,480.00 | 1.48\% | $\begin{aligned} & 0.077 \\ & 0.078 \end{aligned}$ | $\begin{array}{r} \$ 99.78 \\ \$ 498,885.00 \end{array}$ | (\$2,595.00) | 0.26\% | $\mathrm{A} 1$ |
| 17330PSX8 | Citigroup Global Markets Holdings Inc. 3.750\% 07/20/2023 | $\begin{gathered} \text { 7/8/2022 } \\ 7 / 20 / 2022 \end{gathered}$ | \$1,950,000.00 | \$1,950,000.00 | \$1,950,000.00 | 3.75\% | $\begin{aligned} & 0.553 \\ & 0.534 \end{aligned}$ | $\begin{array}{r} \$ 98.81 \\ \$ 1,926,795.00 \end{array}$ | (\$23,205.00) | 1.01\% | $\begin{gathered} \text { A2 } \\ \text { A } \end{gathered}$ |
| 89236THF5 | Toyota Motor Credit Corporation 0.500\% 08/14/2023 | $\begin{aligned} & 11 / 24 / 2020 \\ & 11 / 27 / 2020 \end{aligned}$ | \$3,025,000.00 | \$3,033,152.38 | \$3,033,152.38 | 0.40\% | $\begin{aligned} & 0.622 \\ & 0.607 \end{aligned}$ | $\begin{array}{r} \$ 97.30 \\ \$ 2,943,355.25 \end{array}$ | (\$89,797.13) | 1.55\% | $\begin{aligned} & \text { A1 } \\ & \text { A+ } \end{aligned}$ |
| 17330Y4T4 | Citigroup Global Markets Holdings Inc. 5.500\% 10/31/2023 | $\begin{aligned} & 10 / 26 / 2022 \\ & 10 / 31 / 2022 \end{aligned}$ | \$2,700,000.00 | \$2,700,000.00 | \$2,700,000.00 | 5.50\% | $\begin{aligned} & 0.836 \\ & 0.791 \end{aligned}$ | $\begin{array}{r} \$ 99.16 \\ \$ 2,677,185.00 \end{array}$ | (\$22,815.00) | 1.41\% | $\begin{gathered} \text { A2 } \\ \text { A } \end{gathered}$ |
| 06406RAP2 | The Bank of New York Mellon Corporation 0.350\% 12/07/2023 | $\begin{aligned} & 8 / 18 / 2021 \\ & 8 / 20 / 2021 \end{aligned}$ | \$1,200,000.00 | \$1,200,000.00 | \$1,200,000.00 | 0.35\% | $\begin{aligned} & 0.937 \\ & 0.915 \end{aligned}$ | $\begin{array}{r} \$ 95.88 \\ \$ 1,150,512.00 \end{array}$ | (\$49,488.00) | 0.61\% | $\begin{gathered} \text { A1 } \\ \text { A } \end{gathered}$ |
| 89236THU2 | Toyota Motor Credit Corporation 0.450\% 01/11/2024 | $\begin{gathered} 1 / 7 / 2021 \\ 1 / 11 / 2021 \end{gathered}$ | \$4,000,000.00 | \$4,004,160.00 | \$4,004,160.00 | 0.42\% | $\begin{aligned} & 1.033 \\ & 1.007 \end{aligned}$ | $\begin{array}{r} \$ 95.73 \\ \$ 3,829,000.00 \end{array}$ | (\$175,160.00) | 2.02\% | $\begin{aligned} & \text { A1 } \\ & \text { A+ } \end{aligned}$ |
| 023135BW5 | Amazon.com, Inc. 0.450\% 05/12/2024 | $\begin{aligned} & 5 / 11 / 2021 \\ & 5 / 13 / 2021 \end{aligned}$ | \$2,000,000.00 | \$1,999,220.00 | \$1,999,220.00 | 0.46\% | $\begin{aligned} & 1.367 \\ & 1.332 \end{aligned}$ | $\begin{array}{r} \$ 94.28 \\ \$ 1,885,540.00 \end{array}$ | (\$113,680.00) | 0.99\% | $\begin{aligned} & \text { A1 } \\ & \text { AA } \end{aligned}$ |

Town of Paradise Operating Account

As of December 31, 2022

| CUSIP | Security Description | Trade Date/ Settlement Date | Par Value | Principal Cost/ Purchased Interest | Total Cost | Yield at Cost | Maturity/ <br> Duration | Market Price/ Market Value | Unrealized Gain/ (Loss) | $\%$ of Assets | $\begin{array}{\|c} \text { Moody's/ } \\ \text { S\&P } \\ \text { Rating } \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 89236TJG1 | Toyota Motor Credit Corporation 0.500\% 06/14/2024 | $\begin{gathered} 6 / 4 / 2021 \\ 6 / 14 / 2021 \end{gathered}$ | \$1,500,000.00 | \$1,500,000.00 | \$1,500,000.00 | 0.50\% | $\begin{aligned} & 1.458 \\ & 1.418 \end{aligned}$ | $\begin{array}{r} \$ 93.57 \\ \$ 1,403,580.00 \end{array}$ | $(\$ 96,420.00)$ | 0.74\% | $\begin{aligned} & \text { A1 } \\ & \text { A+ } \end{aligned}$ |
| 14913R2P1 | Caterpillar Financial Services Corporation 0.600\% 09/13/2024 | $\begin{aligned} & 9 / 9 / 2021 \\ & 9 / 14 / 2021 \end{aligned}$ | \$420,000.00 | \$420,151.20 | \$420,151.20 | 0.59\% | $\begin{aligned} & 1.707 \\ & 1.659 \end{aligned}$ | $\begin{array}{r} \$ 93.40 \\ \$ 392,284.20 \end{array}$ | (\$27,867.00) | 0.21\% | $\begin{gathered} \text { A2 } \\ \text { A } \end{gathered}$ |
| 14913R2P1 | Caterpillar Financial Services Corporation 0.600\% 09/13/2024 | $\begin{gathered} 9 / 8 / 2021 \\ 9 / 14 / 2021 \end{gathered}$ | \$480,000.00 | \$480,240.00 | \$480,240.00 | 0.58\% | $\begin{aligned} & 1.707 \\ & 1.659 \end{aligned}$ | $\begin{array}{r} \$ 93.40 \\ \$ 448,324.80 \end{array}$ | (\$31,915.20) | 0.24\% | $\begin{gathered} \text { A2 } \\ \text { A } \end{gathered}$ |
| 69371 RR99 | PACCAR Financial Corp. 3.550\% 08/11/2025 | $\begin{aligned} & 8 / 10 / 2022 \\ & 8 / 12 / 2022 \end{aligned}$ | \$2,000,000.00 | $\begin{array}{r} \$ 2,002,020.00 \\ \$ 197.22 \end{array}$ | \$2,002,217.22 | 3.51\% | $\begin{aligned} & 2.616 \\ & 2.429 \end{aligned}$ | $\begin{array}{r} \$ 97.37 \\ \$ 1,947,420.00 \end{array}$ | (\$54,600.00) | 1.03\% | $\begin{aligned} & \text { A1 } \\ & \text { A+ } \end{aligned}$ |
| 478160CN2 | Johnson \& Johnson 0.550\% 09/01/2025 | $\begin{aligned} & 1 / 12 / 2021 \\ & 1 / 14 / 2021 \end{aligned}$ | \$3,000,000.00 | \$2,992,050.00 | \$2,992,050.00 | 0.61\% | $\begin{aligned} & 2.674 \\ & 2.593 \end{aligned}$ | $\begin{array}{r} \$ 90.47 \\ \$ 2,713,980.00 \end{array}$ | (\$278,070.00) | 1.43\% | Aaa AAA |
| 037833EB2 | Apple Inc. 0.700\% 02/08/2026 | $\begin{aligned} & 2 / 2 / 2021 \\ & 2 / 8 / 2021 \end{aligned}$ | \$5,000,000.00 | \$4,988,750.00 | \$4,988,750.00 | 0.75\% | $\begin{aligned} & 3.112 \\ & 3.000 \end{aligned}$ | $\begin{array}{r} \$ 88.91 \\ \$ 4,445,350.00 \end{array}$ | (\$543,400.00) | 2.34\% | Aaa AA+ |
| 14913R2Q9 | Caterpillar Financial Services Corporation 1.150\% 09/14/2026 | $\begin{aligned} & 9 / 17 / 2021 \\ & 9 / 21 / 2021 \end{aligned}$ | \$2,500,000.00 | \$2,506,275.00 | \$2,506,275.00 | 1.10\% | $\begin{aligned} & 3.710 \\ & 3.538 \end{aligned}$ | $\begin{array}{r} \$ 88.46 \\ \$ 2,211,475.00 \end{array}$ | (\$294,800.00) | 1.16\% | $\begin{gathered} \text { A2 } \\ \text { A } \end{gathered}$ |
| 24422EWD7 | John Deere Capital Corporation 2.350\% 03/08/2027 | $\begin{gathered} 3 / 8 / 2022 \\ 3 / 10 / 2022 \end{gathered}$ | \$1,500,000.00 | \$1,497,345.00 | \$1,497,345.00 | 2.39\% | $\begin{aligned} & 4.189 \\ & 3.876 \end{aligned}$ | $\begin{array}{r} \$ 91.21 \\ \$ 1,368,195.00 \end{array}$ | (\$129,150.00) | 0.72\% | $\begin{gathered} \mathrm{A} 2 \\ \mathrm{~A} \end{gathered}$ |
| 89236TJZ9 | Toyota Motor Credit Corporation 3.050\% 03/22/2027 | $\begin{aligned} & 3 / 18 / 2022 \\ & 3 / 22 / 2022 \end{aligned}$ | \$1,750,000.00 | \$1,757,752.50 | \$1,757,752.50 | 2.95\% | $\begin{aligned} & 4.227 \\ & 3.858 \end{aligned}$ | $\begin{array}{r} \$ 93.49 \\ \$ 1,635,987.50 \end{array}$ | (\$121,765.00) | 0.86\% | $\begin{aligned} & \text { A1 } \\ & \text { A+ } \end{aligned}$ |
| 023135CF1 | Amazon.com, Inc. $3.300 \% \text { 04/13/2027 }$ | $\begin{aligned} & 5 / 17 / 2022 \\ & 5 / 19 / 2022 \end{aligned}$ | \$2,000,000.00 | \$1,982,220.00 | \$1,982,220.00 | 3.50\% | $\begin{aligned} & 4.288 \\ & 3.873 \end{aligned}$ | $\begin{array}{r} \$ 95.18 \\ \$ 1,903,640.00 \end{array}$ | (\$78,580.00) | 1.00\% | $\begin{aligned} & \mathrm{A} 1 \\ & \mathrm{AA} \end{aligned}$ |
|  | SubTotal |  | \$35,525,000.00 | $\begin{array}{r} \$ 35,514,816.08 \\ \$ 197.22 \end{array}$ | \$35,515,013.30 | 1.71\% |  | \$33,381,508.75 | (\$2,133,307.33) | 17.58\% |  |
| Municipal Bond |  |  |  |  |  |  |  |  |  |  |  |
| 757696AP4 | Redondo Beach Community Financing Authority, City of 0.415\% 05/01/2023 | $\begin{gathered} 7 / 2 / 2021 \\ 7 / 15 / 2021 \end{gathered}$ | \$850,000.00 | \$850,000.00 | \$850,000.00 | 0.42\% | $\begin{aligned} & 0.334 \\ & 0.329 \end{aligned}$ | $\begin{array}{r} \$ 98.61 \\ \$ 838,159.50 \end{array}$ | (\$11,840.50) | 0.44\% | AA |

Town of Paradise Operating Account

As of December 31, 2022

| CUSIP | Security Description | Trade Date/ Settlement Date | Par Value | Principal Cost/ Purchased Interest | Total Cost | Yield at Cost | Maturity/ <br> Duration | Market Price/ Market Value | Unrealized Gain/ (Loss) | \% of Assets | Moody's/ S\&P Rating |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38122NA51 | Golden State <br> Tobacco <br> Securitization <br> Corporation 0.672\% <br> 06/01/2023 | $\begin{aligned} & 10 / 6 / 2021 \\ & 10 / 8 / 2021 \end{aligned}$ | \$2,300,000.00 | \$2,307,314.00 | \$2,307,314.00 | 0.48\% | $\begin{aligned} & 0.419 \\ & 0.411 \end{aligned}$ | $\begin{array}{r} \$ 98.36 \\ \$ 2,262,234.00 \end{array}$ | (\$45,080.00) | 1.19\% | $\begin{gathered} \mathrm{Aa3} \\ \mathrm{~A}+ \end{gathered}$ |
| 482124SM7 | Jurupa Unified School District 0.421\% 08/01/2023 | $\begin{gathered} 4 / 13 / 2021 \\ 5 / 4 / 2021 \end{gathered}$ | \$1,895,000.00 | \$1,895,000.00 | \$1,895,000.00 | 0.42\% | $\begin{aligned} & 0.586 \\ & 0.574 \end{aligned}$ | $\begin{array}{r} \$ 97.63 \\ \$ 1,850,069.55 \end{array}$ | (\$44,930.45) | 0.97\% | Aa3 |
| 03667PHC9 | Antelope Valley Community College District 0.282\% 08/01/2023 | $\begin{aligned} & 8 / 11 / 2021 \\ & 8 / 31 / 2021 \end{aligned}$ | \$320,000.00 | \$320,000.00 | \$320,000.00 | 0.28\% | $\begin{aligned} & 0.586 \\ & 0.574 \end{aligned}$ | $\begin{array}{r} \$ 97.53 \\ \$ 312,080.00 \end{array}$ | (\$7,920.00) | 0.16\% | $\begin{gathered} \mathrm{Aa} 2 \\ \mathrm{AA} \end{gathered}$ |
| 626905PN7 | Murrieta Valley Unified School District 0.449\% 09/01/2023 | $\begin{aligned} & 7 / 15 / 2021 \\ & 7 / 28 / 2021 \end{aligned}$ | \$500,000.00 | \$500,000.00 | \$500,000.00 | 0.45\% | $\begin{aligned} & 0.671 \\ & 0.657 \end{aligned}$ | $\begin{array}{r} \$ 97.34 \\ \$ 486,710.00 \end{array}$ | (\$13,290.00) | 0.26\% | Aa2 |
| 953321 AB2 | West Hollywood <br> Community <br> Development <br> Commission 0.493\% <br> 09/01/2023 | $\begin{aligned} & 7 / 16 / 2021 \\ & 7 / 29 / 2021 \end{aligned}$ | \$250,000.00 | \$250,000.00 | \$250,000.00 | 0.49\% | $\begin{aligned} & 0.671 \\ & 0.656 \end{aligned}$ | $\begin{array}{r} \$ 97.21 \\ \$ 243,032.50 \end{array}$ | (\$6,967.50) | 0.13\% | AA- |
| 797686EL2 | The San Francisco <br> Municipal <br> Transportation <br> Agency 0.389\% <br> 03/01/2024 | $\begin{aligned} & 9 / 16 / 2021 \\ & 9 / 20 / 2021 \end{aligned}$ | \$500,000.00 | \$498,650.00 | \$498,650.00 | 0.50\% | $\begin{aligned} & 1.170 \\ & 1.141 \end{aligned}$ | $\begin{array}{r} \$ 95.13 \\ \$ 475,650.00 \end{array}$ | (\$23,000.00) | 0.25\% | $\begin{gathered} \mathrm{Aa3} \\ \mathrm{~A}+ \end{gathered}$ |
| 072024WP3 | Bay Area Toll Authority 2.254\% 04/01/2024 | $\begin{aligned} & 1 / 6 / 2021 \\ & 1 / 8 / 2021 \end{aligned}$ | \$800,000.00 | \$845,696.00 | \$845,696.00 | 0.47\% | $\begin{aligned} & 1.255 \\ & 1.213 \end{aligned}$ | $\begin{array}{r} \$ 97.45 \\ \$ 779,608.00 \end{array}$ | (\$66,088.00) | 0.41\% | Aa3 <br> AA |
| 797412DL4 | San Diego County Water Authority 0.593\% 05/01/2024 | $\begin{aligned} & 11 / 24 / 2020 \\ & 11 / 27 / 2020 \end{aligned}$ | \$1,000,000.00 | \$1,003,490.00 | \$1,003,490.00 | 0.49\% | $\begin{aligned} & 1.337 \\ & 1.303 \end{aligned}$ | $\begin{array}{r} \$ 94.87 \\ \$ 948,680.00 \end{array}$ | (\$54,810.00) | 0.50\% | Aa2 <br> AAA |
| 757696AQ2 | Redondo Beach - <br> Community <br> Financing Authority, <br> City of $0.741 \%$ <br> 05/01/2024 | $\begin{gathered} 7 / 2 / 2021 \\ 7 / 15 / 2021 \end{gathered}$ | \$1,435,000.00 | \$1,435,000.00 | \$1,435,000.00 | 0.74\% | $\begin{aligned} & 1.337 \\ & 1.301 \end{aligned}$ | $\begin{array}{r} \$ 94.78 \\ \$ 1,360,049.95 \end{array}$ | (\$74,950.05) | 0.72\% | AA |
| 798153ND0 | San Jose, City of 0.844\% 06/01/2024 | $\begin{aligned} & 4 / 16 / 2021 \\ & 4 / 20 / 2021 \end{aligned}$ | \$705,000.00 | \$710,731.65 | \$710,731.65 | 0.58\% | $\begin{aligned} & 1.422 \\ & 1.383 \end{aligned}$ | $\begin{array}{r} \$ 94.53 \\ \$ 666,415.35 \end{array}$ | (\$44,316.30) | 0.35\% | $\begin{gathered} \mathrm{Aa} 2 \\ \mathrm{AA} \end{gathered}$ |
| 79773KBF0 | San Francisco, City \& County of 0.616\% 06/15/2024 | $\begin{gathered} 11 / 20 / 2020 \\ 12 / 8 / 2020 \end{gathered}$ | \$250,000.00 | \$250,000.00 | \$250,000.00 | 0.62\% | $\begin{aligned} & 1.460 \\ & 1.422 \end{aligned}$ | $\begin{array}{r} \$ 94.06 \\ \$ 235,137.50 \end{array}$ | (\$14,862.50) | 0.12\% | Aaa <br> AAA |

Town of Paradise Operating Account

As of December 31, 2022

| CUSIP | Security Description | Trade Date/ Settlement Date | Par Value | Principal Cost/ Purchased Interest | Total Cost | Yield at Cost | Maturity/ Duration | Market Price/ Market Value | Unrealized Gain/ (Loss) | \% of Assets | $\begin{array}{\|l\|} \text { Moody's/s } \\ \text { S\&P } \\ \text { Rating } \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 119174AC4 | Buena Park, City of 0.595\% 07/01/2024 | $\begin{aligned} & 8 / 18 / 2021 \\ & 8 / 31 / 2021 \end{aligned}$ | \$1,000,000.00 | \$1,000,000.00 | \$1,000,000.00 | 0.60\% | $\begin{aligned} & 1.504 \\ & 1.461 \end{aligned}$ | $\begin{array}{r} \$ 93.92 \\ \$ 939,230.00 \end{array}$ | (\$60,770.00) | 0.49\% | AA+ |
| 969268DF5 | William S. Hart Union High School District 0.607\% 08/01/2024 | $\begin{aligned} & 12 / 10 / 2020 \\ & 12 / 23 / 2020 \end{aligned}$ | \$2,250,000.00 | \$2,250,000.00 | \$2,250,000.00 | 0.61\% | $\begin{aligned} & 1.589 \\ & 1.544 \end{aligned}$ | $\begin{array}{r} \$ 93.76 \\ \$ 2,109,600.00 \end{array}$ | (\$140,400.00) | 1.11\% | Aa2 |
| 798186N73 | San Jose Unified School District 0.383\% 08/01/2024 | $\begin{gathered} \text { 1/8/2021 } \\ \text { 1/20/2021 } \end{gathered}$ | \$535,000.00 | \$535,000.00 | \$535,000.00 | 0.38\% | $\begin{aligned} & 1.589 \\ & 1.549 \end{aligned}$ | $\begin{array}{r} \$ 93.83 \\ \$ 501,974.45 \end{array}$ | (\$33,025.55) | 0.26\% | Aaa <br> AA+ |
| 482124SN5 | Jurupa Unified School District 0.625\% 08/01/2024 | $\begin{gathered} 4 / 13 / 2021 \\ 5 / 4 / 2021 \end{gathered}$ | \$500,000.00 | \$500,000.00 | \$500,000.00 | 0.63\% | $\begin{aligned} & 1.589 \\ & 1.544 \end{aligned}$ | $\begin{array}{r} \$ 93.92 \\ \$ 469,605.00 \end{array}$ | (\$30,395.00) | 0.25\% | Aa3 |
| 03667PHD7 | Antelope Valley Community College District 0.545\% 08/01/2024 | $\begin{aligned} & 8 / 11 / 2021 \\ & 8 / 31 / 2021 \end{aligned}$ | \$225,000.00 | \$225,000.00 | \$225,000.00 | 0.55\% | $\begin{aligned} & 1.589 \\ & 1.545 \end{aligned}$ | $\begin{array}{r} \$ 93.78 \\ \$ 211,009.50 \end{array}$ | (\$13,990.50) | 0.11\% | Aa2 <br> AA |
| 20056XAA6 | Commerce, City of 0.667\% 08/01/2024 | $\begin{aligned} & 8 / 25 / 2021 \\ & 8 / 31 / 2021 \end{aligned}$ | \$525,000.00 | \$525,000.00 | \$525,000.00 | 0.67\% | $\begin{aligned} & 1.589 \\ & 1.542 \end{aligned}$ | $\begin{array}{r} \$ 93.62 \\ \$ 491,526.00 \end{array}$ | (\$33,474.00) | 0.26\% | AA- |
| 206849GM7 | Conejo Valley Unified School District 0.702\% 08/01/2024 | $\begin{aligned} & 9 / 1 / 2021 \\ & 9 / 22 / 2021 \end{aligned}$ | \$200,000.00 | \$200,000.00 | \$200,000.00 | 0.70\% | $\begin{aligned} & 1.589 \\ & 1.543 \end{aligned}$ | $\begin{array}{r} \$ 94.04 \\ \$ 188,074.00 \end{array}$ | (\$11,926.00) | 0.10\% | Aa3 |
| 223047AC5 | Covina, City of $0.738 \% ~ 08 / 01 / 2024$ | $\begin{aligned} & \text { 10/6/2021 } \\ & 10 / 8 / 2021 \end{aligned}$ | \$1,000,000.00 | \$999,490.00 | \$999,490.00 | 0.76\% | $\begin{aligned} & 1.589 \\ & 1.540 \end{aligned}$ | $\begin{array}{r} \$ 93.73 \\ \$ 937,300.00 \end{array}$ | (\$62,190.00) | 0.49\% | AA |
| 155105NM7 | Central School <br> District School <br> Facilities <br> Corporation 1.022\% 08/01/2024 | $\begin{gathered} 11 / 17 / 2021 \\ 12 / 9 / 2021 \end{gathered}$ | \$280,000.00 | \$280,000.00 | \$280,000.00 | 1.02\% | $\begin{aligned} & 1.589 \\ & 1.547 \end{aligned}$ | $\begin{array}{r} \$ 96.26 \\ \$ 269,533.60 \end{array}$ | (\$10,466.40) | 0.14\% | Aa3 <br> AA |
| 802649TH6 | Santa Rosa, City of 0.827\% 09/01/2024 | $\begin{gathered} 11 / 24 / 2020 \\ 12 / 1 / 2020 \end{gathered}$ | \$1,000,000.00 | \$1,010,410.00 | \$1,010,410.00 | 0.55\% | $\begin{aligned} & 1.674 \\ & 1.623 \end{aligned}$ | $\begin{array}{r} \$ 93.83 \\ \$ 938,310.00 \end{array}$ | (\$72,100.00) | 0.49\% | AA |
| 21976THGO | Corona-Norco Unified School District 0.667\% 09/01/2024 | $\begin{aligned} & 4 / 23 / 2021 \\ & 5 / 13 / 2021 \end{aligned}$ | \$2,480,000.00 | \$2,480,000.00 | \$2,480,000.00 | 0.67\% | $\begin{aligned} & 1.674 \\ & 1.623 \end{aligned}$ | $\begin{array}{r} \$ 93.14 \\ \$ 2,309,896.80 \end{array}$ | (\$170,103.20) | 1.22\% | AA- |
| 626905PP2 | Murrieta Valley Unified School District 0.698\% 09/01/2024 | $\begin{aligned} & 7 / 15 / 2021 \\ & 7 / 28 / 2021 \end{aligned}$ | \$500,000.00 | \$500,000.00 | \$500,000.00 | 0.70\% | $\begin{aligned} & 1.674 \\ & 1.626 \end{aligned}$ | $\begin{array}{r} \$ 93.79 \\ \$ 468,970.00 \end{array}$ | (\$31,030.00) | 0.25\% | Aa2 |
| 797299MM3 | San Diego, City of 1.450\% 10/15/2024 | $\begin{aligned} & 4 / 12 / 2021 \\ & 4 / 14 / 2021 \end{aligned}$ | \$900,000.00 | \$921,672.00 | \$921,672.00 | 0.75\% | $\begin{aligned} & 1.795 \\ & 1.731 \end{aligned}$ | $\begin{array}{r} \$ 94.26 \\ \$ 848,358.00 \end{array}$ | (\$73,314.00) | 0.45\% | AA- |

Town of Paradise Operating Account

As of December 31, 2022

| CUSIP | Security Description | Trade Date/ Settlement Date | Par Value | Principal Cost/ Purchased Interest | Total Cost | Yield at Cost | Maturity/ <br> Duration | Market Price/ Market Value | Unrealized Gain/ (Loss) | \% of Assets | $\begin{gathered} \text { Moody's/ } \\ \text { S\&P } \\ \text { Rating } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 79771FAX5 | San Francisco, City \& County of $0.723 \%$ 11/01/2024 | $\begin{aligned} & 1 / 4 / 2021 \\ & 1 / 6 / 2021 \end{aligned}$ | \$1,455,000.00 | \$1,474,453.35 | \$1,474,453.35 | 0.37\% | $\begin{aligned} & 1.841 \\ & 1.791 \end{aligned}$ | $\begin{array}{r} \$ 93.63 \\ \$ 1,362,345.60 \end{array}$ | (\$112,107.75) | 0.72\% | Aa2 <br> AA- |
| 649791RA0 | New York, State of 0.910\% 03/15/2025 | $\begin{aligned} & 4 / 19 / 2021 \\ & 4 / 21 / 2021 \end{aligned}$ | \$1,000,000.00 | \$1,007,440.00 | \$1,007,440.00 | 0.72\% | $\begin{aligned} & 2.208 \\ & 2.135 \end{aligned}$ | $\begin{array}{r} \$ 92.33 \\ \$ 923,300.00 \end{array}$ | (\$84,140.00) | 0.49\% | Aa1 AA+ |
| 13063DGB8 | California, State of 3.375\% 04/01/2025 | $\begin{aligned} & 12 / 23 / 2020 \\ & 12 / 28 / 2020 \end{aligned}$ | \$475,000.00 | \$531,610.50 | \$531,610.50 | 0.54\% | $\begin{aligned} & 2.255 \\ & 2.124 \end{aligned}$ | $\begin{array}{r} \$ 97.57 \\ \$ 463,438.50 \end{array}$ | $(\$ 68,172.00)$ | 0.24\% | Aa2 <br> AA- |
| 797412DM2 | San Diego County Water Authority 0.743\% 05/01/2025 | $\begin{aligned} & 11 / 24 / 2020 \\ & 11 / 27 / 2020 \end{aligned}$ | \$1,075,000.00 | \$1,081,987.50 | \$1,081,987.50 | 0.59\% | $\begin{aligned} & 2.337 \\ & 2.263 \end{aligned}$ | $\begin{array}{r} \$ 91.36 \\ \$ 982,098.50 \end{array}$ | (\$99,889.00) | 0.52\% | Aa2 <br> AAA |
| 68609TWD6 | Oregon, State of 0.895\% 05/01/2025 | $\begin{gathered} 12 / 8 / 2020 \\ 12 / 10 / 2020 \end{gathered}$ | \$1,750,000.00 | \$1,780,887.50 | \$1,780,887.50 | 0.49\% | $\begin{aligned} & 2.337 \\ & 2.262 \end{aligned}$ | $\begin{array}{r} \$ 92.15 \\ \$ 1,612,555.00 \end{array}$ | (\$168,332.50) | 0.85\% | Aa1 AA+ |
| 91412HGE7 | The Regents of the University of California 0.883\% 05/15/2025 | $\begin{aligned} & 12 / 15 / 2020 \\ & 12 / 17 / 2020 \end{aligned}$ | \$1,425,000.00 | \$1,442,199.75 | \$1,442,199.75 | 0.61\% | $\begin{aligned} & 2.375 \\ & 2.298 \end{aligned}$ | $\begin{array}{r} \$ 91.76 \\ \$ 1,307,622.75 \end{array}$ | (\$134,577.00) | 0.69\% | Aa2 <br> AA |
| 91412HGE7 | The Regents of the University of California 0.883\% 05/15/2025 | $\begin{aligned} & 12 / 21 / 2020 \\ & 12 / 23 / 2020 \end{aligned}$ | \$1,355,000.00 | \$1,372,736.95 | \$1,372,736.95 | 0.58\% | $\begin{aligned} & 2.375 \\ & 2.298 \end{aligned}$ | $\begin{array}{r} \$ 91.76 \\ \$ 1,243,388.65 \end{array}$ | (\$129,348.30) | 0.65\% | Aa2 <br> AA |
| 91412HGE7 | The Regents of the University of California 0.883\% 05/15/2025 | $\begin{aligned} & 1 / 20 / 2021 \\ & 1 / 22 / 2021 \end{aligned}$ | \$3,000,000.00 | \$3,047,880.00 | \$3,047,880.00 | 0.51\% | $\begin{aligned} & 2.375 \\ & 2.298 \end{aligned}$ | $\begin{array}{r} \$ 91.76 \\ \$ 2,752,890.00 \end{array}$ | (\$294,990.00) | 1.45\% | $\begin{gathered} \mathrm{Aa} 2 \\ \mathrm{AA} \end{gathered}$ |
| 546417DQ6 | State of Louisiana $0.840 \% \text { 06/01/2025 }$ | $\begin{aligned} & 8 / 24 / 2021 \\ & 8 / 26 / 2021 \end{aligned}$ | \$400,000.00 | \$401,512.00 | \$401,512.00 | 0.74\% | $\begin{aligned} & 2.422 \\ & 2.347 \end{aligned}$ | $\begin{array}{r} \$ 91.91 \\ \$ 367,656.00 \end{array}$ | (\$33,856.00) | 0.19\% | Aa2 <br> AA- |
| 79773KBG8 | San Francisco, City \& County of 0.766\% 06/15/2025 | $\begin{gathered} 11 / 20 / 2020 \\ 12 / 8 / 2020 \end{gathered}$ | \$200,000.00 | \$200,000.00 | \$200,000.00 | 0.77\% | $\begin{aligned} & 2.460 \\ & 2.384 \end{aligned}$ | $\begin{array}{r} \$ 91.07 \\ \$ 182,140.00 \end{array}$ | (\$17,860.00) | 0.10\% | Aaa <br> AAA |
| 574193TR9 | Maryland, State of 0.660\% 08/01/2025 | $\begin{aligned} & 11 / 18 / 2020 \\ & 11 / 20 / 2020 \end{aligned}$ | \$3,000,000.00 | \$3,014,580.00 | \$3,014,580.00 | 0.56\% | $\begin{aligned} & 2.589 \\ & 2.505 \end{aligned}$ | $\begin{array}{r} \$ 90.76 \\ \$ 2,722,800.00 \end{array}$ | (\$291,780.00) | 1.43\% | Aaa AAA |
| 56781RJJ7 | Marin Community College District 5.000\% 08/01/2025 | $\begin{aligned} & 11 / 25 / 2020 \\ & 11 / 30 / 2020 \end{aligned}$ | \$2,280,000.00 | \$2,742,270.00 | \$2,742,270.00 | 0.59\% | $\begin{aligned} & 2.589 \\ & 2.357 \end{aligned}$ | $\begin{array}{r} \$ 100.85 \\ \$ 2,299,311.60 \end{array}$ | (\$442,958.40) | 1.21\% | Aaa AAA |
| 969268DG3 | William S. Hart Union High School District 0.757\% 08/01/2025 | $\begin{aligned} & 12 / 10 / 2020 \\ & 12 / 23 / 2020 \end{aligned}$ | \$1,000,000.00 | \$1,000,000.00 | \$1,000,000.00 | 0.76\% | $\begin{aligned} & 2.589 \\ & 2.496 \end{aligned}$ | $\begin{array}{r} \$ 90.11 \\ \$ 901,110.00 \end{array}$ | $(\$ 98,890.00)$ | 0.47\% | Aa2 |

Town of Paradise Operating Account

As of December 31, 2022

| CUSIP | Security Description | Trade Date/ Settlement Date | Par Value | Principal Cost/ Purchased Interest | Total Cost | Yield at Cost | Maturity/ Duration | Market Price/ Market Value | Unrealized Gain/ (Loss) | \% of Assets | $\begin{array}{\|l} \text { Moody's/ } \\ \text { S\&P } \\ \text { Rating } \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 798186N81 | San Jose Unified School District 0.558\% 08/01/2025 | $\begin{gathered} \text { 1/8/2021 } \\ 1 / 20 / 2021 \end{gathered}$ | \$1,000,000.00 | \$1,000,000.00 | \$1,000,000.00 | 0.56\% | $\begin{aligned} & 2.589 \\ & 2.508 \end{aligned}$ | $\begin{array}{r} \$ 90.42 \\ \$ 904,240.00 \end{array}$ | (\$95,760.00) | 0.48\% | Aaa AA+ |
| 482124SP0 | Jurupa Unified School District 1.059\% 08/01/2025 | $\begin{gathered} 5 / 27 / 2021 \\ 6 / 1 / 2021 \end{gathered}$ | \$500,000.00 | \$504,265.00 | \$504,265.00 | 0.85\% | $\begin{aligned} & 2.589 \\ & 2.487 \end{aligned}$ | $\begin{array}{r} \$ 91.15 \\ \$ 455,740.00 \end{array}$ | (\$48,525.00) | 0.24\% | Aa3 |
| 03667PHE5 | Antelope Valley Community College District 0.866\% 08/01/2025 | $\begin{aligned} & 8 / 11 / 2021 \\ & 8 / 31 / 2021 \end{aligned}$ | \$170,000.00 | \$170,000.00 | \$170,000.00 | 0.87\% | $\begin{aligned} & 2.589 \\ & 2.494 \end{aligned}$ | $\begin{array}{r} \$ 90.73 \\ \$ 154,247.80 \end{array}$ | (\$15,752.20) | 0.08\% | $\begin{gathered} \mathrm{Aa} 2 \\ \mathrm{AA} \end{gathered}$ |
| 206849GN5 | Conejo Valley Unified School District 0.974\% 08/01/2025 | $\begin{gathered} 9 / 1 / 2021 \\ 9 / 22 / 2021 \end{gathered}$ | \$205,000.00 | \$205,000.00 | \$205,000.00 | 0.97\% | $\begin{aligned} & 2.589 \\ & 2.490 \end{aligned}$ | $\begin{array}{r} \$ 90.94 \\ \$ 186,435.20 \end{array}$ | $(\$ 18,564.80)$ | 0.10\% | Aa3 |
| 802649TJ2 | Santa Rosa, City of 0.977\% 09/01/2025 | $\begin{gathered} 11 / 24 / 2020 \\ 12 / 1 / 2020 \end{gathered}$ | \$1,530,000.00 | \$1,554,357.60 | \$1,554,357.60 | 0.64\% | $\begin{aligned} & 2.674 \\ & 2.572 \end{aligned}$ | $\begin{array}{r} \$ 90.52 \\ \$ 1,384,940.70 \end{array}$ | (\$169,416.90) | 0.73\% | AA |
| 50420BDE9 | La Quinta, City of 1.168\% 09/01/2025 | $\begin{gathered} 4 / 8 / 2021 \\ 4 / 14 / 2021 \end{gathered}$ | \$2,000,000.00 | \$2,022,960.00 | \$2,022,960.00 | 0.90\% | $\begin{aligned} & 2.674 \\ & 2.561 \end{aligned}$ | $\begin{array}{r} \$ 90.45 \\ \$ 1,809,040.00 \end{array}$ | (\$213,920.00) | 0.95\% | AA- |
| 419792ZL3 | Hawaii, State of 0.852\% 10/01/2025 | $\begin{aligned} & 11 / 19 / 2020 \\ & 11 / 23 / 2020 \end{aligned}$ | \$5,000,000.00 | \$5,052,250.00 | \$5,052,250.00 | 0.63\% | $\begin{aligned} & 2.756 \\ & 2.660 \end{aligned}$ | $\begin{array}{r} \$ 90.54 \\ \$ 4,526,900.00 \end{array}$ | (\$525,350.00) | 2.38\% | $\begin{aligned} & \mathrm{Aa} 2 \\ & \mathrm{AA}+ \end{aligned}$ |
| 13034AL65 | California <br> Infrastructure and Economic Development Bank <br> 0.765\% 10/01/2025 | $\begin{gathered} 12 / 8 / 2020 \\ 12 / 17 / 2020 \end{gathered}$ | \$1,000,000.00 | \$1,007,250.00 | \$1,007,250.00 | 0.61\% | $\begin{aligned} & 2.756 \\ & 2.663 \end{aligned}$ | $\begin{array}{r} \$ 90.22 \\ \$ 902,200.00 \end{array}$ | (\$105,050.00) | 0.48\% | AAA |
| 21969AAE2 | Corona, City of 1.361\% 05/01/2026 | $\begin{gathered} 9 / 30 / 2021 \\ 10 / 14 / 2021 \end{gathered}$ | \$860,000.00 | \$860,000.00 | \$860,000.00 | 1.36\% | $\begin{aligned} & 3.337 \\ & 3.178 \end{aligned}$ | $\begin{array}{r} \$ 88.95 \\ \$ 764,987.20 \end{array}$ | (\$95,012.80) | 0.40\% | AA+ |
| 21969AAE2 | Corona, City of 1.361\% 05/01/2026 | $\begin{gathered} \text { 10/5/2021 } \\ 10 / 14 / 2021 \end{gathered}$ | \$1,065,000.00 | \$1,071,336.75 | \$1,071,336.75 | 1.23\% | $\begin{aligned} & 3.337 \\ & 3.178 \end{aligned}$ | $\begin{array}{r} \$ 88.95 \\ \$ 947,338.80 \end{array}$ | (\$123,997.95) | 0.50\% | AA+ |
| 20772KNX3 | Connecticut, State of 1.123\% 06/01/2026 | $\begin{aligned} & 6 / 4 / 2021 \\ & 6 / 9 / 2021 \end{aligned}$ | \$2,200,000.00 | \$2,213,090.00 | \$2,213,090.00 | 1.00\% | $\begin{aligned} & 3.422 \\ & 3.279 \end{aligned}$ | $\begin{array}{r} \$ 88.93 \\ \$ 1,956,394.00 \end{array}$ | (\$256,696.00) | 1.03\% | Aa3 <br> AA- |
| 80182AAE9 | Santa Cruz, County of 1.024\% 06/01/2026 | $\begin{aligned} & 9 / 21 / 2021 \\ & 9 / 23 / 2021 \end{aligned}$ | \$1,060,000.00 | \$1,060,763.20 | \$1,060,763.20 | 1.01\% | $\begin{aligned} & 3.422 \\ & 3.284 \end{aligned}$ | $\begin{array}{r} \$ 88.65 \\ \$ 939,700.60 \end{array}$ | (\$121,062.60) | 0.49\% | AAA |
| 80182AAE9 | Santa Cruz, County of 1.024\% 06/01/2026 | $\begin{aligned} & 9 / 28 / 2021 \\ & 9 / 30 / 2021 \end{aligned}$ | \$1,075,000.00 | \$1,071,237.50 | \$1,071,237.50 | 1.10\% | $\begin{aligned} & 3.422 \\ & 3.284 \end{aligned}$ | $\begin{array}{r} \$ 88.65 \\ \$ 952,998.25 \end{array}$ | (\$118,239.25) | 0.50\% | AAA |
| 696735QQ5 | Palmdale School District 1.071\% 08/01/2026 | $\begin{aligned} & 8 / 6 / 2021 \\ & 9 / 2 / 2021 \end{aligned}$ | \$250,000.00 | \$250,000.00 | \$250,000.00 | 1.07\% | $\begin{aligned} & 3.589 \\ & 3.422 \end{aligned}$ | $\begin{array}{r} \$ 87.81 \\ \$ 219,525.00 \end{array}$ | (\$30,475.00) | 0.12\% | Aa3 |

Town of Paradise Operating Account

## As of December 31, 2022

| CUSIP | Security Description | Trade Date/ Settlement Date | Par Value | Principal Cost/ Purchased Interest | Total Cost | Yield at Cost | Maturity/ Duration | Market Price/ Market Value | Unrealized Gain/ (Loss) | \% of Assets | Moody's/ S\&P Rating |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 20056XAC2 | Commerce, City of 1.212\% 08/01/2026 | $\begin{aligned} & 8 / 25 / 2021 \\ & 8 / 31 / 2021 \end{aligned}$ | \$525,000.00 | \$525,000.00 | \$525,000.00 | 1.21\% | $\begin{aligned} & 3.589 \\ & 3.407 \end{aligned}$ | $\begin{array}{r} \$ 87.52 \\ \$ 459,464.25 \end{array}$ | (\$65,535.75) | 0.24\% | AA- |
|  | SubTotal |  | \$59,055,000.00 | \$59,957,521.25 | \$59,957,521.25 | 0.65\% |  | \$54,826,022.10 | (\$5,131,499.15) | 28.88\% |  |

## Municipal Note

| 91412HJL8 | The Regents of the University of California 0.670\% 05/15/2025 | $\begin{aligned} & 2 / 24 / 2021 \\ & 3 / 10 / 2021 \end{aligned}$ | \$1,500,000.00 | \$1,500,000.00 | \$1,500,000.00 | 0.67\% | $\begin{aligned} & 2.375 \\ & 2.303 \end{aligned}$ | $\begin{array}{r} \$ 91.17 \\ \$ 1,367,475.00 \end{array}$ | (\$132,525.00) | 0.72\% | $\begin{gathered} \mathrm{Aa} 2 \\ \mathrm{AA} \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | SubTotal |  | \$1,500,000.00 | \$1,500,000.00 | \$1,500,000.00 | 0.67\% |  | \$1,367,475,00 |  |  |  |


| Negotiable Certificate of Deposit |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 90348JS76 | UBS Bank USA 0.350\% 09/11/2023 | $\begin{gathered} 8 / 31 / 2021 \\ 9 / 9 / 2021 \end{gathered}$ | \$249,000.00 | \$248,626.50 | \$248,626.50 | 0.43\% | $\begin{aligned} & 0.699 \\ & 0.684 \end{aligned}$ | $\begin{array}{r} \$ 97.11 \\ \$ 241,806.39 \end{array}$ | (\$6,820.11) | 0.13\% |
| 856285XE6 | State Bank of India $0.400 \% \text { 09/18/2023 }$ | $\begin{aligned} & 9 / 17 / 2021 \\ & 9 / 21 / 2021 \end{aligned}$ | \$249,000.00 | \$248,738.55 | \$248,738.55 | 0.45\% | $\begin{aligned} & 0.718 \\ & 0.703 \end{aligned}$ | $\begin{array}{r} \$ 97.10 \\ \$ 241,779.00 \end{array}$ | (\$6,959.55) | 0.13\% |
| 87165HC32 | Synchrony Bank 0.550\% 09/03/2024 | $\begin{gathered} 8 / 31 / 2021 \\ 9 / 3 / 2021 \end{gathered}$ | \$249,000.00 | \$248,253.00 | \$248,253.00 | 0.65\% | $\begin{aligned} & 1.679 \\ & 1.634 \end{aligned}$ | $\begin{array}{r} \$ 93.51 \\ \$ 232,829.94 \end{array}$ | (\$15,423.06) | 0.12\% |
| 89235MLN9 | Toyota Financial Savings Bank 0.650\% 09/09/2024 | $\begin{gathered} \text { 8/31/2021 } \\ 9 / 9 / 2021 \end{gathered}$ | \$249,000.00 | \$248,377.50 | \$248,377.50 | 0.73\% | $\begin{aligned} & 1.696 \\ & 1.648 \end{aligned}$ | $\begin{array}{r} \$ 93.61 \\ \$ 233,078.94 \end{array}$ | (\$15,298.56) | 0.12\% |
| 649447VM8 | Flagstar Bank, National Association. 0.650\% 09/10/2024 | $\begin{aligned} & 8 / 30 / 2021 \\ & 9 / 10 / 2021 \end{aligned}$ | \$249,000.00 | \$248,564.25 | \$248,564.25 | 0.71\% | $\begin{aligned} & 1.699 \\ & 1.651 \end{aligned}$ | $\begin{array}{r} \$ 93.60 \\ \$ 233,054.04 \end{array}$ | (\$15,510.21) | 0.12\% |
| 05580AE67 | BMW Bank of North America 0.650\% 10/08/2024 | $\begin{aligned} & 9 / 30 / 2021 \\ & 10 / 8 / 2021 \end{aligned}$ | \$249,000.00 | \$248,315.25 | \$248,315.25 | 0.74\% | $\begin{aligned} & 1.775 \\ & 1.726 \end{aligned}$ | $\begin{array}{r} \$ 93.31 \\ \$ 232,344.39 \end{array}$ | (\$15,970.86) | 0.12\% |
| 7954507A7 | Sallie Mae Bank 1.000\% 07/14/2026 | $\begin{aligned} & 7 / 14 / 2021 \\ & 7 / 16 / 2021 \end{aligned}$ | \$248,000.00 | \$246,760.00 | \$246,760.00 | 1.10\% | $\begin{aligned} & 3.540 \\ & 3.383 \end{aligned}$ | $\begin{array}{r} \$ 88.46 \\ \$ 219,375.84 \end{array}$ | (\$27,384.16) | 0.12\% |
| 38149MZJ5 | Goldman Sachs Bank USA Holdings LLC 1.050\% 09/08/2026 | $\begin{gathered} 8 / 31 / 2021 \\ 9 / 8 / 2021 \end{gathered}$ | \$249,000.00 | \$247,879.50 | \$247,879.50 | 1.14\% | $\begin{aligned} & 3.693 \\ & 3.529 \end{aligned}$ | $\begin{array}{r} \$ 88.18 \\ \$ 219,575.67 \end{array}$ | $(\$ 28,303.83)$ | 0.12\% |
|  | SubTotal |  | \$1,991,000.00 | \$1,985,514.55 | \$1,985,514.55 | 0.74\% |  | \$1,853,844.21 | (\$131,670.34) | 0.98\% |

Town of Paradise Operating Account

## As of December 31, 2022

| CUSIP | Security Description | Trade Date/ Settlement Date | Par Value | Principal Cost/ Purchased Interest | Total Cost | Yield at Cost | Maturity/ Duration | Market Price/ Market Value | Unrealized Gain/ (Loss) | \% of Assets | Moody's/ S\&P Rating |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Supranational |  |  |  |  |  |  |  |  |  |  |  |
| 45818WDD5 | $\begin{aligned} & \text { IADB 0.39\% } \\ & 04 / 16 / 2024 \end{aligned}$ | $\begin{aligned} & 4 / 8 / 2021 \\ & 4 / 16 / 2021 \end{aligned}$ | \$3,000,000.00 | \$3,000,270.00 | \$3,000,270.00 | 0.39\% | $\begin{aligned} & 1.296 \\ & 1.265 \end{aligned}$ | $\begin{array}{r} \$ 94.72 \\ \$ 2,841,480.00 \end{array}$ | (\$158,790.00) | 1.50\% | Aaa AA+ |
| 459058JA2 | $\begin{aligned} & \text { IBRD 0.750\% } \\ & 03 / 11 / 2025 \end{aligned}$ | $\begin{aligned} & 3 / 4 / 2021 \\ & 3 / 9 / 2021 \end{aligned}$ | \$3,150,000.00 | \$3,167,671.50 | \$3,167,671.50 | 0.61\% | $\begin{aligned} & 2.197 \\ & 2.130 \end{aligned}$ | $\begin{array}{r} \$ 92.46 \\ \$ 2,912,584.50 \end{array}$ | (\$255,087.00) | 1.53\% | Aaa AA+ |
| 459058JL8 | $\begin{aligned} & \text { IBRD 0.500\% } \\ & 10 / 28 / 2025 \end{aligned}$ | $\begin{aligned} & 2 / 3 / 2021 \\ & 2 / 8 / 2021 \end{aligned}$ | \$5,000,000.00 | \$4,994,200.00 | \$4,994,200.00 | 0.52\% | $\begin{aligned} & 2.830 \\ & 2.749 \end{aligned}$ | $\begin{array}{r} \$ 89.95 \\ \$ 4,497,650.00 \end{array}$ | (\$496,550.00) | 2.37\% | Aaa AA+ |
| 459058JS3 | IBRD 0.650\% 02/10/2026 | $\begin{gathered} 5 / 27 / 2021 \\ 6 / 1 / 2021 \end{gathered}$ | \$2,000,000.00 | \$1,981,720.00 | \$1,981,720.00 | 0.85\% | $\begin{aligned} & 3.118 \\ & 2.996 \end{aligned}$ | $\begin{array}{r} \$ 86.92 \\ \$ 1,738,400.00 \end{array}$ | (\$243,320.00) | 0.92\% | Aaa <br> AA+ |
| 45950VPU4 | $\begin{aligned} & \text { IFC 0.75\% } \\ & 03 / 23 / 2026 \end{aligned}$ | $\begin{gathered} 3 / 4 / 2021 \\ 3 / 23 / 2021 \end{gathered}$ | \$2,000,000.00 | \$1,994,880.00 | \$1,994,880.00 | 0.80\% | $\begin{aligned} & 3.230 \\ & 3.175 \end{aligned}$ | $\begin{array}{r} \$ 89.17 \\ \$ 1,783,420.00 \end{array}$ | (\$211,460.00) | 0.94\% | Aaa AA+ |
|  | SubTotal |  | \$15,150,000.00 | \$15,138,741.50 | \$15,138,741.50 | 0.59\% |  | \$13,773,534.50 | (\$1,365,207.00) | 7.26\% |  |


| U.S. Treasury Note |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 91282CCP4 | UST 0.625\% 07/31/2026 | $\begin{aligned} & 9 / 23 / 2021 \\ & 9 / 24 / 2021 \end{aligned}$ | \$2,500,000.00 | \$2,462,792.97 | \$2,462,792.97 | 0.94\% | $\begin{aligned} & 3.586 \\ & 3.463 \end{aligned}$ | $\begin{array}{r} \$ 88.47 \\ \$ 2,211,725.00 \end{array}$ | (\$251,067.97) | 1.17\% | Aaa <br> AA+ |
| 91282CCW9 | $\begin{aligned} & \text { UST 0.750\% } \\ & 08 / 31 / 2026 \end{aligned}$ | $\begin{aligned} & 9 / 23 / 2021 \\ & 9 / 24 / 2021 \end{aligned}$ | \$2,500,000.00 | \$2,481,054.69 | \$2,481,054.69 | 0.91\% | $\begin{aligned} & 3.671 \\ & 3.537 \end{aligned}$ | $\begin{array}{r} \$ 88.68 \\ \$ 2,217,100.00 \end{array}$ | (\$263,954.69) | 1.17\% | Aaa <br> AA+ |
| 91282CCZ2 | UST 0.875\% 09/30/2026 | $\begin{aligned} & 9 / 28 / 2021 \\ & 9 / 30 / 2021 \end{aligned}$ | \$2,950,000.00 | \$2,930,525.39 | \$2,930,525.39 | 1.01\% | $\begin{aligned} & 3.753 \\ & 3.610 \end{aligned}$ | $\begin{array}{r} \$ 88.95 \\ \$ 2,624,113.50 \end{array}$ | (\$306,411.89) | 1.38\% | Aaa <br> AA+ |
|  | SubTotal |  | \$7,950,000.00 | \$7,874,373.05 | \$7,874,373.05 | 0.96\% |  | \$7,052,938.50 | (\$821,434.55) | 3.72\% |  |
| Grand Total |  |  | \$204,087,740.39 | $\begin{array}{r} \text { \$204,360,322.38 } \\ \$ 4,081.25 \end{array}$ | \$204,364,403.63 | 1.30\% |  | \$189,843,024.70 | 4,517,297.68) | 100.00\% |  |

Town of Paradise Operating Account

## TRANSACTION STATEMENT

As of December 31, 2022

| Transaction Type | Trade Date | Settlement Date | CUSIP | Security Description | Par Value | Principal Amount | Purchased Interest | Total Cost | Yield at Cost |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Purchase |  |  |  |  |  |  |  |  |  |
| Purchase | 10/11/2022 | 10/11/2022 | 46640QTC5 | J.P. Morgan Securities LLC 06/12/2023 | 2,700,000.00 | 2,615,454.00 |  | 2,615,454.00 | 4.77\% |
| Purchase | 10/26/2022 | 10/31/2022 | 17330Y4T4 | Citigroup Global Markets Holdings Inc. 5.500\% 10/31/2023 | 2,700,000.00 | 2,700,000.00 |  | 2,700,000.00 | 5.50\% |
| Purchase | 11/9/2022 | 11/9/2022 | 7426M3NW5 | Private Export Funding Corporation 01/30/2023 | 1,100,000.00 | 1,089,551.83 |  | 1,089,551.83 | 4.21\% |
| Purchase | 11/14/2022 | 11/14/2022 | 69372BPE4 | PACCAR Financial Corp. 02/14/2023 | 1,100,000.00 | 1,087,912.22 |  | 1,087,912.22 | 4.35\% |
| Purchase | 11/14/2022 | 11/15/2022 | 912796YY9 | UST 12/13/2022 | 1,000,000.00 | 997,209.72 |  | 997,209.72 | 3.65\% |
| Purchase | 12/12/2022 | 12/13/2022 | 21687BVE8 | Cooperatieve Rabobank U.A. 08/14/2023 | 1,240,000.00 | 1,197,305.42 |  | 1,197,305.42 | 5.26\% |
| Purchase | 12/20/2022 | 12/21/2022 | 3130ATUS4 | $\begin{aligned} & \text { FHLB } 4.250 \% \\ & 12 / 10 / 2027 \end{aligned}$ | 700,000.00 | 710,829.00 | 3,884.03 | 714,713.03 | 3.90\% |
| Total |  |  |  |  | 10,540,000.00 | 10,398,262.19 | 3,884.03 | 10,402,146.22 |  |

Town of Paradise Operating Account
TRANSACTION STATEMENT
MEEDER
As of December 31, 2022


As of December 31, 2022

| Transaction Type | Payment Date | Settlement Date | CUSIP | Security Description | Interest Received |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Interest/Dividends | 10/5/2022 | 10/5/2022 | 3133EMLV2 | FFCB 0.270\% 04/05/2024 | 6,750.00 |
| Interest/Dividends | 10/11/2022 | 10/11/2022 | 05580AE67 | BMW Bank of North America 0.650\% 10/08/2024 | 811.47 |
| Interest/Dividends | 10/11/2022 | 10/11/2022 | 90348JS76 | UBS Bank USA 0.350\% 09/11/2023 | 71.63 |
| Interest/Dividends | 10/13/2022 | 10/13/2022 | 023135CF1 | Amazon.com, Inc. 3.300\% 04/13/2027 | 33,000.00 |
| Interest/Dividends | 10/17/2022 | 10/17/2022 | 45818WDD5 | IADB 0.39\% 04/16/2024 | 5,850.00 |
| Interest/Dividends | 10/17/2022 | 10/17/2022 | 797299MM3 | San Diego, City of 1.450\% 10/15/2024 | 6,525.00 |
| Interest/Dividends | 10/20/2022 | 10/20/2022 | 17330PSX8 | Citigroup Global Markets Holdings Inc. 3.750\% 07/20/2023 | 6,093.75 |
| Interest/Dividends | 10/21/2022 | 10/21/2022 | 3133EMDZ2 | FFCB 0.520\% 10/21/2025 | 13,000.00 |
| Interest/Dividends | 10/28/2022 | 10/28/2022 | 3135GA2A8 | FNMA 0.580\% 10/28/2025 | 14,500.00 |
| Interest/Dividends | 10/28/2022 | 10/28/2022 | 459058JL8 | IBRD 0.500\% 10/28/2025 | 12,500.00 |
| Interest/Dividends | 11/1/2022 | 11/1/2022 | 797412DM2 | San Diego County Water Authority 0.743\% 05/01/2025 | 3,993.63 |
| Interest/Dividends | 11/1/2022 | 11/1/2022 | 797412DL4 | San Diego County Water Authority 0.593\% 05/01/2024 | 2,965.00 |
| Interest/Dividends | 11/1/2022 | 11/1/2022 | 68609TWD6 | Oregon, State of 0.895\% 05/01/2025 | 7,831.25 |
| Interest/Dividends | 11/1/2022 | 11/1/2022 | 79771FAX5 | San Francisco, City \& County of 0.723\% 11/01/2024 | 5,259.83 |
| Interest/Dividends | 11/1/2022 | 11/1/2022 | 757696AP4 | Redondo Beach - Community Financing Authority, City of 0.415\% 05/01/2023 | 1,763.75 |
| Interest/Dividends | 11/1/2022 | 11/1/2022 | 757696AQ2 | Redondo Beach - Community Financing Authority, City of 0.741\% 05/01/2024 | 5,316.68 |
| Interest/Dividends | 11/1/2022 | 11/1/2022 | 21969AAE2 | Corona, City of $1.361 \%$ 05/01/2026 | 13,099.63 |
| Interest/Dividends | 11/1/2022 | 11/1/2022 | 31846 V 567 | First American Funds, Inc. | 2,508.75 |
| Interest/Dividends | 11/9/2022 | 11/9/2022 | 90348JS76 | UBS Bank USA 0.350\% 09/11/2023 | 74.02 |

## As of December 31, 2022

| Transaction Type | Payment Date | Settlement Date | CUSIP | Security Description | Interest Received |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Interest/Dividends | 11/14/2022 | 11/14/2022 | 023135BW5 | Amazon.com, Inc. 0.450\% 05/12/2024 | 4,500.00 |
| Interest/Dividends | 11/15/2022 | 11/15/2022 | 91412HGE7 | The Regents of the University of California 0.883\% 05/15/2025 | 25,518.70 |
| Interest/Dividends | 11/15/2022 | 11/15/2022 | 91412HJL8 | The Regents of the University of California 0.670\% 05/15/2025 | 5,025.00 |
| Interest/Dividends | 11/18/2022 | 11/18/2022 | 3135G06E8 | FNMA 0.420\% 11/18/2024 | 10,500.00 |
| Interest/Dividends | 11/21/2022 | 11/21/2022 | 17330PSX8 | Citigroup Global Markets Holdings Inc. 3.750\% 07/20/2023 | 6,093.75 |
| Interest/Dividends | 11/25/2022 | 11/25/2022 | 3134GXDZ4 | FMCC 0.450\% 11/25/2024 | 6,750.00 |
| Interest/Dividends | 11/25/2022 | 11/25/2022 | 3133ENEX4 | FFCB 0.550\% 11/24/2023 | 5,500.00 |
| Interest/Dividends | 11/28/2022 | 11/28/2022 | 3134GXFA7 | FMCC 0.650\% 11/26/2025 | 9,750.00 |
| Interest/Dividends | 11/30/2022 | 11/30/2022 | 3134GXCV4 | FMCC 0.500\% 05/30/2025 | 12,500.00 |
| Interest/Dividends | 12/1/2022 | 12/1/2022 | 798153ND0 | San Jose, City of 0.844\% 06/01/2024 | 2,975.10 |
| Interest/Dividends | 12/1/2022 | 12/1/2022 | 20772KNX3 | Connecticut, State of 1.123\% 06/01/2026 | 12,353.00 |
| Interest/Dividends | 12/1/2022 | 12/1/2022 | 546417DQ6 | State of Louisiana 0.840\% 06/01/2025 | 1,680.00 |
| Interest/Dividends | 12/1/2022 | 12/1/2022 | 80182AAE9 | Santa Cruz, County of 1.024\% 06/01/2026 | 10,931.20 |
| Interest/Dividends | 12/1/2022 | 12/1/2022 | 38122NA51 | Golden State Tobacco Securitization Corporation 0.672\% 06/01/2023 | 7,728.00 |
| Interest/Dividends | 12/1/2022 | 12/1/2022 | 31846 V 567 | First American Funds, Inc. | 3,832.89 |
| Interest/Dividends | 12/7/2022 | 12/7/2022 | 06406RAP2 | The Bank of New York Mellon Corporation 0.350\% 12/07/2023 | 2,100.00 |
| Interest/Dividends | 12/9/2022 | 12/9/2022 | 90348 JS76 | UBS Bank USA 0.350\% 09/11/2023 | 71.63 |
| Interest/Dividends | 12/14/2022 | 12/14/2022 | 89236TJG1 | Toyota Motor Credit Corporation 0.500\% 06/14/2024 | 3,750.00 |
| Interest/Dividends | 12/15/2022 | 12/15/2022 | 79773KBF0 | San Francisco, City \& County of 0.616\% 06/15/2024 | 770.00 |

5 Memorial Drive, Dublin Ohio 43017 | 866-633-3371 | www.meederpublicfunds.com

Town of Paradise Operating Account
TRANSACTION STATEMENT
MEEDER
As of December 31, 2022

| Transaction Type | Payment Date | Settlement Date | CUSIP | Security Description | Interest Received |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Interest/Dividends | 12/15/2022 | 12/15/2022 | 79773KBG8 | San Francisco, City \& County of 0.766\% 06/15/2025 | 766.00 |
| Interest/Dividends | 12/19/2022 | 12/19/2022 | 3134GXFV1 | FMCC 0.625\% 12/17/2025 | 7,812.50 |
| Interest/Dividends | 12/20/2022 | 12/20/2022 | 17330PSX8 | Citigroup Global Markets Holdings Inc. 3.750\% 07/20/2023 | 6,093.75 |
| Interest/Dividends | 12/21/2022 | 12/21/2022 | 31846 V 567 | First American Funds, Inc. | 0.76 |
| Interest/Dividends | 12/21/2022 | 12/21/2022 | 31846 V 567 | First American Funds, Inc. | 0.13 |
| Interest/Dividends | 12/30/2022 | 12/30/2022 | 3135G06Q1 | FNMA 0.640\% 12/30/2025 | 9,600.00 |

Town of Paradise Operating Account
TRANSACTION STATEMENT

As of December 31, 2022

| Transaction Type | Trade Date | Settlement Date | Transaction Description | Amount |
| :---: | :---: | :---: | :---: | :---: |
| Custodian Fee |  |  |  |  |
| Custodian Fee | 10/25/2022 | 10/25/2022 | Cash Out | $(1,544.64)$ |
| Custodian Fee | 11/28/2022 | 11/28/2022 | Cash Out | $(1,532.53)$ |
| Custodian Fee | 12/27/2022 | 12/27/2022 | Cash Out | $(1,523.70)$ |
| Total |  |  |  | (4,600.87) |

## Management Fee

|  | Management Fee | $10 / 17 / 2022$ | $10 / 17 / 2022$ | Cash Out |
| :--- | :--- | :--- | :--- | :--- |
|  |  |  | $(5,500.00)$ |  |
| Management Fee | $11 / 18 / 2022$ | $11 / 18 / 2022$ | Cash Out |  |
| Management Fee | $12 / 28 / 2022$ | $12 / 28 / 2022$ | Cash Out |  |
| Total |  |  |  | $(5,500.00)$ |


| Withdrawal |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
| Withdrawal | $11 / 9 / 2022$ | $11 / 9 / 2022$ | Cash Out |  |
| Total |  |  |  |  |

Town of Paradise
Council Agenda Summary
Date: February 14, 2023

## ORIGINATED BY:

## REVIEWED BY:

SUBJECT:
LONG TERM
Colette Curtis, Recovery and Economic Development Director

Kevin Phillips, Town Manager
Federal Advocacy Platform Update
Yes
RECOVERY PLAN:

## COUNCIL ACTION REQUESTED:

1. Review the updated Federal Advocacy Platform and provide comments to staff.

## Background:

On December 8, 2020, Town Council approved a Federal Advocacy Platform which documented recovery successes, immediate needs, as well as long term needs and policy considerations. This document has been utilized by Council and staff in our legislative advocacy for funding and other policy needs during recovery from the 2018 Camp Fire.

## Analysis:

The Federal Advocacy Platform should be updated regularly to ensure the platform remains current for use by Council and Staff. Two years after the first platform was approved, it is time to update the document with our successes to date as well as current short- and long-term needs. The attached platform includes the achievements in recovery over the last two years, as well as the existing needs to address the barriers our community faces.

## Financial Impact:

This item has no impact to the general fund. The platform was drafted by Town staff and by the Ferguson Group through the Town's existing contract.

Attachments: Updated Federal Advocacy Platform


## TOWN OF PARADISE, CA

2023 FEDERAL PLATFORM AND PRIORITIES


On November 8, 2018, the Camp Fire left the Town of Paradise largely destroyed, forever changing the future of the community. The Town is focused on rebuilding the community into a safer, stronger, and more resilient Town. The federal government has been crucial to the Town's recovery thus far and will continue to play a key role as Paradise rebuilds for the future. The Town's 2023 Federal Platform and Priorities highlights the successes of the Town's partnership with the federal government and outlines how this partnership can be used to address the critical recovery needs that remain.

## TOWN OF PARADISE

## THE TOWN

- Incorporated on November 27, 1979
- Located in Butte County, CA
- Home of the longest running harvest festival in California


THE PEOPLE

- 9,000 residents (2022)
- 26,218 residents (preCamp Fire)
- 4,600 Daytime Population


## Greg Bolin

Mayor
Rose Tryon
Vice Mayor
Steve Crowder
Councilmember
Steve "Woody" Culleton
Councilmember
Ron Lassonde
Councilmember

Kevin Phillips
Town Manager

Paradise Town Hall
5555 Skyway
Paradise, CA 95969
(530) 872-6291
www.townofparadise.com


## INFRASTRUCTURE NEEDS

## SEWER SYSTEM

Secure funding to support the construction of the Paradise Sewer Project, unlocking the missing piece of the Town's affordable housing and economic recoveries.

For a number of years, the Town has pursued a municipal solution for wastewater treatment to address failed septic systems that have degraded local groundwater quality and constrained affordable housing, essential community services, and related economic growth. Reliance on septic systems has resulted in two areas of concern: environmental impacts and economic impediment. Failed septic systems release untreated wastewater into groundwater or at the ground surface, resulting in environmental degradation and public health risk due to water contamination or exposure to untreated wastewater. Economically, the lack of a sewer system has suppressed the development of a sustainable business community by limiting the size and types of businesses that can affordably operate in the community. Development of affordable housing and workforce housing also has been hindered as larger housing facilities require more sewer treatment capacity than a traditional septic system can provide within the available parcel sizes. As a result of these concerns, the Town worked diligently for more than 50 years, even prior to its incorporation in 1979, to identify a feasible wastewater treatment solution for the community, with a priority to provide service to those commercial and densely populated residential areas with failed and failing septic systems.

Prior to the 2018 Camp Fire, the Town struggled to support a thriving economy, in part due to the lack of sewer availability. Conditions since the 2018 Camp Fire are amplified with even fewer businesses able to open or reopen due to septic failures or required upgrades that are cost prohibitive. Commercial parcels in Town are generally small in size and concentrated in a core commercial area that provides limited space for septic tanks and leach fields. These restrictions are compounded by siting restrictions such as high groundwater and poor drainage due to the local soil composition. As a result, existing Town businesses have been severely constrained due to their septic system discharge exceeding the available capacity of the land itself, while new businesses are often forced to open elsewhere due to the limitations placed on them to operate with an on-site septic system. Three primary objectives and associated goals drove the development of the Proposed Project:

- Provide long-term, efficient, reliable treatment of wastewater in a cost-effective, environmentally beneficial manner to current and returning Town residents, in a manner acceptable to the RWQCB and other permitting agencies:
- Accommodate regrowth while reducing further environmental degradation of groundwater and surface water from failing septic systems
- Reduce the public health risk associated with failing septic systems.
- Generate economic recovery by eliminating septic-related capacity limitations, as well as the general burden of on-site wastewater management for businesses:
- Promote the return or arrival of essential community services and businesses by removing restrictions caused by on-site septic systems.
- Provide for the ability to construct and maintain affordable housing, specifically multifamily housing:

Support centralizing affordable higher-density housing to Paradise's urban core, along major evacuation routes.

The Town of Paradise has a certified Final Programmatic Environmental Impact report to construct both the core collection system and export pipeline to the City of Chico's existing Water Pollution Control Plant, about 18 miles east of Paradise. Utilizing a regional approach is the most cost effective and feasible solution for the project.
The Town anticipates a funding shortfall of about $\$ 48 \mathrm{M}$ after other funding programs have been secured.


## EVACUATION INFRASTRUCTURE

> Seek additional funding opportunities for the improved resiliency of critical evacuation routes within Paradise as well as those arterial roads that provide access to and from the Town.

The Town of Paradise is situated along a ridge, constrained by two canyons, presenting limited circulation and evacuation routes. Accordingly, the 2018 Camp Fire demonstrated this constraint with long delays due to local and regional constraints. In the Town's recovery, the Town of Paradise utilized an Economic Development Administration grant to complete the 2022 Transportation Master Plan. This plan, guided by the Town's original 2019 Long Term Recovery Plan, aimed to organize public input, identify critical projects and position the Town to secure additional funding for implementation.

As a result, 48 unique evacuation route projects were identified with an unmet funding need over $\$ 625 \mathrm{M}$. These projects would increase capacity on existing roadways, connect new roadways for improved circulation, address dead-end roads and create an interconnected multi-use path system which can double as emergency evacuation assets. With these projects fully vetted and studied in the Transportation Master Plan, the Town's overall unmet needs were submitted for consideration in the 2018 California Wildfires (DR-4407) Community Development Block Grant Disaster Recovery (CDBG-DR) Infrastructure Program. These overall
funds are appropriated by Congress to the United States Department of Housing and Urban Development (HUD) and administered by California Housing \& Community Development (HCD). Recognizing unmet infrastructure recovery needs, HCD allocated $\$ 317,428,488$ of the CDBG-DR funding to the Disaster Recovery Infrastructure Program (DR-Infrastructure). DR-Infrastructure projects are funded to assist with meeting the unmet infrastructure needs of local communities. Of this total allocation, the Town of Paradise has been awarded $\$ 199.5 \mathrm{M}$ towards eligible infrastructure projects, including unfunded disaster recovery match requirements such as FEMA Public Assistance and Hazard Mitigation Grant Program Projects.

While the CDBG-DR allocation will be instrumental in making progress towards a safer community, over $\$ 320 \mathrm{M}$ in critical evacuation infrastructure projects remain unfunded.

Concurrently, the Town of Paradise plans to submit our Roe Road Extension Phase 2 Project to the United States Department of Transportation's (USDOT) 2023 Rebuilding American Infrastructure with Sustainability and Equity (RAISE) competitive grant program. This project is vital to our recovery and serves an Area of Persistent Poverty or Historically Disadvantaged Communities pursuant to the program guidelines.

The Town is requesting $\$ 8$ million in RAISE funding for the Project Approval and Environmental Document, as well as for Plans, Specifications, and Estimates for the Project. The Project will construct a new 1-mile three-lane roadway extending from South Libby Road to Clark Road/State Route 191, and will include a Class I multi-use pathway that also serves as emergency vehicle access, Americans with Disabilities Act curb ramps, and storm drainage infrastructure. This Project is part of a larger effort to construct a new east-west roadway between Skyway and Pentz Road to improve circulation and connectivity throughout the Town, provide alternative ingress/egress routes for residential neighborhoods, and provide additional evacuation capacity during disaster events. Doing so will improve safety, environmental sustainability, quality of life, and mobility in the Town, as well as increase the area's resiliency toward future emergencies and climate induced events.

## STORMWATER AND DRAINAGE SYSTEM

$\checkmark$
Secure funding opportunities to upgrade and redevelop the current stormwater and drainage system in Paradise.

As the community of Paradise continues to rebuild, providing for adequate stormwater and drainage will be critical to the redevelopment processes. Sustainable stormwater and drainage investments would decrease the quantity of runoff and improve the quality of water. A study has been completed to assess the condition of the Town's storm drain system as well as critical needs and priorities. The 2022 Storm Drain Master Plan identifies over \$25M in unfunded projects necessary to support a multi-hazard hardened community recovery.

## ECONOMIC RECOVERY NEEDS <br> ECONOMIC DEVELOPMENT STRATEGY

Pursue funding through the Economic Development Agency (EDA) for an Economic Development Strategy Document to jump start economic recovery.

The Town of Paradise experienced severe economic damage and financial instability as a result of the Camp Fire and seeks to develop an economic strategy for recovery. A regional and commercial market study have been completed, and now Paradise needs a strategy document to analyze this data and make recommendations for action to rebuild a sustainable economy. The goals of this strategy document will be to support the current construction economy, prioritize steps to recruit and attract businesses, and identify funding and incentives to jump start economic recovery.


## WORKFORCE DEVELOPMENT

Secure funding through CDBG DR Workforce Development and other sources for a Workforce Training Center and other programs.

The Camp Fire resulted in a loss of jobs and businesses for many in Paradise, while at the same time creating the need for a strong construction-related workforce to rebuild the community. CDBG DR Workforce Development funding has been allocated to Butte County in the amount of $\$ 18.7$ Million. The Town of Paradise is working on a project that will include a construction trades training center, including a training program for 3D printing technology to print homes using concrete. This innovative center will focus on training the
next generation of workforce utilizing traditional and cutting-edge technology for a resilient future. The Town intends to submit an Notice of Intent for this project once the application period for the CDBG DR Workforce Development funding opens. It is anticipated additional funding will be needed for this and other related workforce development projects within the community.

## DIRECT BUSINESS ASSISTANCE AND INCENTIVES

Secure funding for businesses affected by the disaster to re-open in the community as well as incentives to new businesses investing in Paradise.

Paradise businesses were devastated by the Camp Fire, first through the physical loss of structures, and then through the loss of their customers as the population of Paradise went from over 26,000 to just over 4,000 overnight. Those businesses that were able to reopen in the four years since the fire have struggled to remain solvent with the smaller
 population, in addition to complications caused by the COVID 19 Pandemic. Many businesses closed by the fire have been unable to reopen as their owners deal with the personal and financial ramifications of the fire, as well as complicated and protracted insurance issues. In addition, businesses that may have otherwise been interested in opening in Paradise have been dissuaded by the drop in population and some of the infrastructure barriers that are part of a fire-impacted community.

The Town of Paradise is looking for funding to provide to businesses, that were affected by the fire to help them remain open, to help those who have been unable reopen do so, and to incentivize new businesses to invest in Paradise.

## HOUSING AND TRANSIT NEEDS HOUSING DEVELOPMENT

Support funding for the rebuilding of all types of housing in the Town.

The majority of housing that existed in Paradise pre-fire was older, single-family homes, duplexes and mobile homes, both in parks and on private land. The fire destroyed $90 \%$ of the Town's housing stock and replacement costs are currently so high that homeowners and landlords are unable to rebuild their units. Paradise needs more housing of all types, including affordable multifamily housing. The lack of a sewer system has been a major barrier to this type of housing in the past, however with the current sewer project underway, affordable multifamily housing is achievable.


Currently, CDBG-DR funds are being utilized to rebuild single-family and multifamily housing, however the need is greater than the current funding available. Funding for workforce housing ( $80 \%-120 \% \mathrm{AMI}$ ) is also greatly needed, for reconstruction and first-time homebuyer. In addition, more funding toward local Community Development Financial Institutions (CDFIs), housing trusts and land trusts would assist considerably with our ability to create programs (such as first-time homebuilders, contractor loan programs, etc.) to rebuild all types of housing lost to in the disaster.

## PUBLIC TRANSPORTATION

Support funding for Butte County Association of Governments to explore and expand additional transit needs in Paradise.

The Town of Paradise is working with the Butte County Association of Governments to plan for the future of public transportation in Paradise to include:

- Continue exploring unmet transit needs in Paradise along corridors that service and provide increased access to employment, housing, and education.
- Expanding paratransit services to meet the needs of our population accessing medical and essential community services within the boundaries of Butte County and together with transportation options to adjoining communities.


## COMMUNITY NEEDS

## HEALTHCARE

,
Support the return of a full range of health care, including emergency services and hospital.
The Camp Fire severely impacted health care services in Paradise, and since November 2018, the Town has been without a hospital or Emergency Room. Prior to the fire, the hospital was the largest employer in Paradise, and served not only the Paradise population, but also the surrounding unincorporated communities as well as being a destination location for cancer and birthing services. The lack of a full hospital and emergency room is a barrier to recovery, and the Town is focused on working with any provider who is interested in investing in the Paradise community into the future.

## RESIDENT FIRE MITIGATION EDUCATION


#### Abstract

Pursue federal funding opportunities for the center including DOI's Joint Fire Science Program, USDA's State and Private Forestry: Cohesive Fire Strategy Program, and FEMA's Assistance to Firefighters Grant Program.

Paradise should be a location for the study of fire safety, fire hazard area ecology, disaster recovery best practices, hardening research, vocational training, building in harmony with nature, etc. The Town of Paradise would like to pursue partnerships with educational institutions that could lead to programs and a potential space downtown. Chico State has expressed interest in creating a healing recovery and resiliency center and Paradise should partner with Chico State to do this. With Chico State as the lead for this project, Paradise should seek subsequent funding to support their development of the center.


## WILDFIRE RISK REDUCTION BUFFER

Support Paradise Recreation and Parks District in their efforts to secure funding for the acquisition and maintenance of land supporting the creation of significant wildfire buffer areas.

Fire breaks are a key element of community-wide fire safety and serve as an instrumental mitigation measure with long-term impact. Implement and maintain a buffer zone between development and the wildlands to reduce fire risk, especially on the east side of town. As fuels are reduced, these areas can also double as an opportunity for hiking trails. The soon to be released IBHS Wildfire Prepared Community Standards are expected to include buffer zones as a fundamental mitigation measure.
It is anticipated that the creation of a fire break that fully surrounds the Town of Paradise would help reduce insurance costs by up to $40 \%$. As well, initial cost benefit analysis research shows a 4:1 return on investment from damage reduction over 30 years with a fire break just on the eastern edge of Town. In addition to insurance reductions, a fire break could serve several functions beyond a protective barrier and passive green space. Other uses include: active park spaces, extended trail networks, and potential business opportunities that take responsible care of the town's boundary.

# POLICY RECOMMENDATIONS TAX EXEMPTION FOR SETTLEMENT PAYMENTS 

Support H.R. 176 to exempt federal taxation on settlement payments for Camp Fire Survivors.
Having experienced the most devastating fire in California history, survivors of the Camp Fire are doing their best to recover. With Pacific Gas and Electric (PG\&E) being found responsible for the fire, many survivors entered into a lawsuit to help them recover financially when insurance and other resources fell far short of what would be needed to rebuild. These survivors are still waiting, 4 years later, for these funds to be fully distributed. Once received, without H.R. 176, those funds would be taxed as income.
The State of California has already determined that to ask survivors of this tragedy to pay tax on these funds would be unjust and has passed A.B. 1249 exempting these funds from state taxes.

Camp Fire survivors are doing their best to move on with their lives, rebuild, and thrive. Resources to rebuild are scarce, and as prices rise due to inflation and supply chain issues, the cost of rebuilding is higher each day that goes by. Exempting PG\&E settlement funds from federal taxes through H.R. 176 would help these survivors rebuild and make sure the funds they have available can all go towards that goal.

## PRIVATE ROAD DESIGNATION BY FEMA

## Explore potential options which would allow the Town to facilitate Camp Fire repairs to privately owned roadways.

Within the incorporated Town of Paradise exists about 550 unique private roadways totaling over 65 roadway miles. These roadways have been similarly impacted by the 2018 Camp Fire as public roads. Private roads were subject to damage caused by the fire itself, comprehensive debris removal operations, hazard tree removal operations and recovery/reconstruction activities. While public roadways have been determined eligible to receive public assistance through FEMA and Federal Highways Administration, private roadway owners have no recourse for damage restoration costs.

## DISASTER ZONE DESIGNATION

Advocate for the establishment of a Disaster Zone designation for communities with significant destruction in the aftermath of a major natural disaster.

The Town of Paradise was devastated by the amount of destruction from the Camp Fire and faces a long road ahead for full economic recovery as the residential and business communities are rebuilt and reestablished. Building upon the Opportunity Zone program, the establishment of a Disaster Zone would help communities face rebuilding with support from federal agencies as well as private industry to spur the long-term investment needed for a full recovery. Assistance provided to communities under a Disaster Zone designation should also include direct federal assistance for grant administration as well as an expedited

## POST-DISASTER RECOVERY EFFICIENCIES

. Advocate for the implementation of efficient processes and procedures that allow local, state, and federal agencies to respond quickly after a disaster and enable them to accelerate planning for and implementation of projects and programs that are vital to a community's immediate and long-term recovery efforts.

Post-disaster recovery efforts after the Camp Fire required close coordination between the Town, state agencies, and federal agencies, not to mention the Town's citizens, employees, contractors, and partners. The Town found that, at times, laborious and tedious processes to access federal and state resources often slowed down the implementation timeline for much needed recovery projects and programs. For instance, implementation of the Government Hazard Tree Removal Program was delayed several times in 2020 due to protests on the tree-felling bidding process. The delays resulted in the hazardous trees remaining a threat to the people and property in Paradise, delaying reconstruction in some cases, and resulting in trees falling and damaging standing homes and rebuilds.

## CENTRALIZED FEDERAL FUNDING APPLICATION

R Advocate for the establishment of a centralized disaster aid application process that provides simple and efficient access to federal resources for public agencies, business, and citizens in the aftermath of a major natural disaster.

In the days, weeks, and months that followed the Camp Fire, the Town, its residents, and its businesses applied for federal assistance from a variety of sources, including from the Federal Emergency Management Agency, the Small Business Administration, and other federal agencies. Each agency and each program required a different application process and documentation which created a laborious process for not only the Town, but also for Paradise citizens. Establishing one centralized portal that gathers information and documentation once from applicants would create a more efficient flow of information, services, and assistance.

## FEDERAL ROLE IN PERMANENT HOUSING AID FOR DISASTER SURVIVORS

## Advocate for Congressional evaluation of how and when federal agencies should assist disaster survivors in attaining permanent housing.

Section 408 of the Stafford Act (42 USC 5174) provides FEMA with the authority to provide financial or direct assistance for permanent housing construction in "insular areas outside the continental United States and in other remote locations in cases in which-(A) no alternative housing resources are not available; and (B) the types of temporary housing assistance...are unavailable, infeasible, or not cost-effective." If temporary housing assistance is not available, feasible, or cost-effective, FEMA should be able to assist with providing permanent housing solutions or at a minimum helping survivors attain permanent housing in the continental
U.S. as well. In addition, a 2019 CRS report titled "Disaster Housing Assistance: Homeland Security Issues in the 116th Congress," (IN11054) states that "FEMA provides temporary housing assistance to meet shortterm and interim disaster housing needs; however, clearly defining the use of these programs and identifying a process to assist some disaster survivors with attaining permanent housing may be needed to comprehensively address disaster housing needs throughout all phases of recovery."

## SUCCESSES

## CONGRESSIONAL PRIORITY PROJECTS

Paradise was supported by our Senators Feinstein and Padilla, and Congressman LaMalfa in their Congressional Priority Projects. \$1.8 Million was allocated to the Town for the Roe Road Extension Phase 1 Project, which will improve evacuation by connecting multiple long dead-end streets in Town. The Town of Paradise also received $\$ 615,000$ to replace Police Radios lost in the fire, improving public safety for our residents.

## WALKABLE AND WORKABLE DOWNTOWN

Paradise was awarded funding for sidewalks, lighting, landscaping, and drainage facilities in the central business district. The Town utilized this investment to help revitalize the central business district of Paradise by increasing the downtown area's walkability and workability, through public transportation and recreational opportunities.

## PUBLIC SAFETY AND LAW ENFORCEMENT

The Town's public safety and law enforcement agencies were critical during the response to the Camp Fire event and remain a critical element of our recovery efforts. Since the disaster, the Town has rebuilt critical public safety buildings and restored damaged fleets, and continues to invest in upgrades to aging and damaged technologies for the Town's police and fire departments.

## EMERGENCY NOTIFICATION SYSTEM

As part of the Town's Long-Term Community Recovery Plan, the Town prioritized the installation of an early warning system that would improve the existing voluntary notification system, implement a mass notification system, and create an audible/alarm notification system. The system will allow the Town to communicate specific messages for emergency events, including the presence of a fire, as well as provide redundant and timeline alerts in addition to existing notification tools. The Town secured a Hazard Mitigation Grant to develop a Design \& Scoping Plan for the project and has been authorized to start construction activities. It is anticipated a complete system, comprised of 21 individual towers will be ready for use in summer 2023.

## ROADWAY DAMAGE RESTORATION

Combined support between FEMA Public Assistance and Federal Highways Administration's Emergency Relief Program, the Town of Paradise has secured and commenced delivery of $\$ 93 \mathrm{M}$ in roadway rehabilitation projects. These projects are critical to the Town's recovery and will provide basic infrastructure restoration to pre-fire conditions.

## * EDA TRANSPORTATION MASTER PLAN

As noted elsewhere in this document, the Town of Paradise was awarded a critical Economic Development Administration planning grant to prepare the 2022 Transportation Master Plan. This $\$ 1.8 \mathrm{M}$ grant allowed the Town to perform invaluable public outreach, complete detailed studies and scope projects the Town depends on for a full recovery. It cannot be understated the value of this "gap" funding project has served, now having leveraged nearly $\$ 250 \mathrm{M}$ in returns between multiple State and federal grant programs.

## CDBG-DR ALLOCATIONS FOR MULTI-FAMILY HOUSING AND INFRASTRUCTURE

To date, over $\$ 250$ Million has been allocated to the Town of Paradise for Multi-Family Housing and Infrastructure projects. $\$ 55$ Million in multi-family housing projects are working their way through the permitting process, and we anticipate over 290 new affordable housing units through these efforts. $\$ 199$ Million in infrastructure funding is being allocated to priority evacuation projects to increase evacuation capacity and safety for residents.

## WATER SYSTEM INFRASTRUCTURE

The Town of Paradise supported the Paradise Irrigation District (PID) in its mission to restore potable water to the area. In order to repair the water system, PID sampled all service laterals and mains in the distribution system for volatile organic compounds, replaced contaminated service laterals, and restored potable water service to the system.

## FEMA COST SHARE INCREASE FOR <br> CATEGORIES A \& B

Camp Fire emergency response and debris removal needs are extraordinary. While final costs of these activities are still unknown, they are estimated to be millions of dollars. This does not include the expense of staff and employee time, which is non-reimbursable under Federal Emergency Management Agency's (FEMA's) Public Assistance Program. The Town's share of the local match required for Categories A (debris removal) and B (emergency response) continues to climb, with required local matches far exceeding local resources. Understanding the exceptional nature of the damages produced by the Camp Fire, Congress approved an increase in the federal share of assistance for Category A \& B damages under FEMA's Public Assistance Program from 75\% to 90\% in Section 309 of the Consolidated Appropriations Act, 2019.

## * FEMA COST SHARE FOR CATEGORIES C - G

The current reimbursement rate for FEMA Public Assistance Categories C-G is $75 \%$. The Town anticipates one of its largest expenditures in recovery efforts to be the repair and replacement of damaged roads. Public roadways fall under FEMA's jurisdiction under Category C (roads). Early estimates predict total road repairs to be in the tens of millions of dollars, putting the Town's share at a level that could exceed its annual operating budget for normal road maintenance. The final cost of needed road repairs will not be known until further in the recovery effort as truck and freight movement in and out of the Town for debris removal, tree removal, and reconstruction continue. An increase in the federal cost share of FEMA Public Assistance funding would significantly reduce the Town's unmet funding needs.

## RURAL COMMUNITY DESIGNATION

After the Camp Fire, the Town of Paradise's population fell from 26,800 to approximately 2,034 . Paradise's original population exceeded thresholds for grant and loan programs offered by the U.S. Department of Agriculture (USDA). However, the post Camp Fire population met USDA population requirements. In order to help bridge the gap between the official population counts for the Town, Congress approved legislative language in Section 108 the FY 2019 Additional Supplemental Appropriations for Disaster Relief Act (P.L. 116-20) that allowed the Governor to designate the Town as rural in nature until a revised population count was conducted as part of the 2020 Census. The designation qualified the Town to apply for immediate assistance under the USDA Rural Development programs.

## REMOVAL OF STANDING BURNT TREES

The removal of standing burnt trees was critical to the overall recovery of the Town as tens of thousands of trees needed to be removed. Historically, FEMA has not funded the removal of standing burnt trees on private property that were threatening the public right-of-way. The Town worked with FEMA to explain how critical the removal of these trees is to the safety and recovery of the Town. In 2019, FEMA approved the use of Public Assistance Program funding for the removal of standing burnt trees located on private property that are threatening a public right-of-way.

## USDA GRANT FOR BUILDING RESILIENCY CENTER

After the Camp Fire, the Town needed a place that could be used as a one-stop-shop for residents who are rebuilding or considering rebuilding in the Town of Paradise. USDA awarded the Town a $\$ 148,300$ grant to renovate a building donated by the Bank of America for use as the Town's "Building Resiliency Center" (BRC). The BRC was one of the first major community projects completed since the Camp Fire. The Town's building department is located inside the BRC, where residents can ask questions, apply for permits, and get all the information they need to rebuild their home. The BRC also offers housing counseling services to help residents understand grants and other resources available for their housing needs. Further, USDA supported the procurement of the following equipment:

Fire Engine
Police Department Community Services Officer Vehicle
Animal Control Truck
Street Sweeper
Two Code Enforcement Vehicles
Brush Chipper
Skid Steer
Four Public Works Trucks
Vacuum Excavator

These items replaced equipment lost in the fire as well as equipment to manage the new post-fire landscape.


Town of Paradise
Council Agenda Summary
Agenda Item: 6(b)
Date: February 14, 2023

ORIGINATED BY:
REVIEWED BY:
SUBJECT:

LONG TERM RECOVERY PLAN:

Dina Volenski, Town Clerk/Elections Official
Kevin Phillips, Town Manager
Town Council Appointment to fill one vacancy on the Paradise Planning Commission No

COUNCIL ACTION REQUESTED: Council Members Crowder and Lassonde, the Planning Commission Interview Panel, recommend the following:

Consider concurring with the recommendation of the interview panel; and,

1. Appoint applicant Charles Homan to fill the existing vacancy on the Planning Commission (effective immediately with term to expire June 30, 2024; or,
2. Consider an alternative direction.

## Background:

On December 13, 2022, the Town Council approved the Notice of Vacancy and application and authorized staff to advertise the existing vacancy on the Planning Commission due to the Election of Ron Lassonde to the Paradise Town Council. Advertising for the position included posting on the Town's website, Facebook page, a public notice and the Weekly Recovery update. An application deadline of January 12, 2023 at 5:00 p.m. was set; Council Members Crowder and Lassonde were appointed to serve as the interview committee; staff was directed to provide suggested questions and a scoring matrix for the candidates; interviews were scheduled for January 25, 2023; and appointment to the vacancy at the February 14, 2023 Regular Town Council meeting.

Nine applications were received, but one individual withdrew their name from the interview process due to a potential conflict of interest. Interviews were conducted on January 25, 2023 with the following applicants:

- Raymond Gary Hendra
- Lee Brown
- Josh Fisher
- Speri Machuga
- Dee Riley
- Charles Holman
- Linda Reynolds
- Clariece Tally


## Analysis:

The interview committee unanimously recommends appointing Charles Holman to the Planning Commission, effective immediately. Additionally, the following applicants are recommended to be alternates for potential future vacancies.

- Josh Fisher
- Dee Riley
- Clariece Tally

Financial Impact:
None

Town of Paradise
Council Agenda Summary
Agenda Item: 6(c)
Date: February 14, 2023

## ORIGINATED BY:

REVIEWED BY:
SUBJECT:

Kate Anderson, Housing Program Manager<br>Kevin Phillips, Town Manager<br>Community Development Block Grant Program<br>(CDBG) 2023-2024 Subrecipient Committee<br>Appointment

LONG TERM
No.
RECOVERY PLAN:
COUNCIL ACTION REQUESTED:

1. Approve the formation of a public services sub-committee to consider input and requests for public services funding; and
2. Appoint two Council members to the public services subcommittee.

## Background:

The Town of Paradise has been a U.S. Department of Housing and Development (HUD) entitlement city since 1994. HUD awards grants to entitlement community grantees to carry out a wide range of community development activities directed toward revitalizing neighborhoods, economic development, and providing improved community facilities and services.

Entitlement communities develop their own programs and funding priorities. However, grantees must give maximum feasible priority to activities which benefit low- and moderate-income persons. A grantee may also carry out activities which aid in the prevention or elimination of slums or blight. Additionally, grantees may fund activities when the grantee certifies that the activities meet other community development needs having a particular urgency because existing conditions pose a serious and immediate threat to the health or welfare of the community where other financial resources are not available to meet such needs. CDBG funds may not be used for activities which do not meet these broad national objectives.

HUD determines the amount of each entitlement grant by a statutory dual formula which uses several objective measures of community needs, including the extent of poverty, population, housing overcrowding, age of housing and population growth lag in relationship to other metropolitan areas.

Public Services Funding Process: As part of the Community Development Block Grant (CDBG) Annual Plan process, the Town Council may elect, but is not required, to allocate up to $15 \%$ of its Program Year funding for public services agencies. The agencies must be legal, non-profit organizations that provide services to low- and moderate-income residents.

In the past, the Town Council directed staff to establish a sub-committee consisting of two council representatives and two staff members to hold preliminary interviews with interested subrecipients. The purpose of the subcommittee was to meet with the subrecipients and make a formal recommendation to the Council for final approval.

## Analysis:

Although the Town has some discretion on how the funds are used, there are many restrictions, conditions, and objectives that must be met. Community Development Block Grant funds for public services must be a new service; or be a quantifiable increase in the level of an existing service; may not replace local or state monies to fund an essential service; may not fund payments made to individuals for basic needs; and may not fund a political activity. The activity funded must also:

1. Benefit low- and moderate-income persons,
2. Aid in the prevention or elimination of slums or blight; or,
3. Meet community development needs having a particular urgency.

## Financial Impact:

The impact of this agenda item and subsequent actions related to the CDBG Program is positive. It will result in the award of approximately $\$ 107,537.00$ in federal funds as we estimate the Town may receive approximately the same amount of funding as last year, of which, \$16,130 can be granted to subrecipients.

Town of Paradise
Council Agenda Summary
Agenda Item: 6(d)
Date: February 14, 2023

ORIGINATED BY:
REVIEWED BY:
SUBJECT:
LONG TERM RECOVERY PLAN:

Marc Mattox, Public Works Director \&Town Engineer Ashley Stanley, Engineering Division Manager Kevin Phillips, Town Manager
Paradise Sewer Project - Inter-Municipal Agreement
Yes, Tier 1 "Sewer"

## COUNCIL ACTION REQUESTED:

a) Review and approve the proposed Inter-Municipal Agreement and authorize the Town Manager to execute following review and approval by the Town Attorney, City of Chico City Council and City Attorney; and
b) Authorize the Town Manager to approve minor adjustments to the Inter-Municipal Agreement as requested by the City of Chico during its review and consideration process; and
c) Direct staff to continue the next steps in the Paradise Sewer Project including supporting the City of Chico in an application to the Butte Local Agency Formation Commission for the extension of wastewater treatment services to the Town of Paradise; or
d) Provide alternative action (ROLL CALL VOTE)

## Background:

Since its incorporation in 1979, the Town has sought a formal wastewater treatment solution for the community, with service for commercial and densely populated residential areas being a priority. Failed and failing septic systems create public health and environmental concerns and have limited economic growth. Prior to the Camp Fire, which almost completely destroyed the town in 2018, Paradise was the largest unsewered community in California. The Town has prepared numerous studies to address its need for a centralized wastewater treatment solution, and in its most recent study, the Town identified a proposed sewer service area. The proposed sewer service area includes the Town's commercial corridors, and as described in the 2017 feasibility study, it represented the area that had the most septic systems that had failed or were projected to fail by 2022.

The Paradise Sewer Project consists of three primary components: Core Collection System, Export Pipeline System, and Extended Collection System. The Core Collection System would support the centralized businesses and housing in Town, including approximately 1,500 parcels along the Skyway, Clark Road, and Pearson Road corridors. The proposed Export Pipeline System would start at the southern end of the Core Collection System as a gravity sewer line and would continue southwest approximately 18 miles_to the City of Chico for connection to the Chico Water Pollution Control Plant. Other than the Town of Paradise flow, no other connections will be
allowed to the export pipeline. The Extended Collection System would be an extension of the Core Collection System that would allow collection of sewage from parcels outside the Core Collection System, but within the Town limits.

Concurrent to the preparation of the Programmatic Environmental Impact Report, a Sewer Regionalization Project Advisory Committee (SRPAC) was formed. The role of the Advisory Committee is to develop principles of agreement for the City to provide the Town with wastewater treatment services. The Advisory Committee will also monitor overall progress of the project including the EIR process and associated public comment periods as well as provide updates and recommendations back to the two Councils.

The SRPAC met numerous times between April 2021 and March 2022, soliciting public and stakeholder feedback along the way. The SRPAC methodically addressed the draft Principles of Agreement during these open meetings.

The Principles of Agreement prepared with the SRPAC outlined key parameters of a potential agreement such as ensuring that ratepayers for Chico are not financially responsible for any aspect of Paradise's treatment needs, in addition to a potential connection payment from the Town of Paradise to the City of Chico, agreed at $\$ 14.9$ million, to support the existing plant and capacity related needs.

The Principles of Agreement also set forth a requirement that the Paradise Sewer Project only serves properties within the Town of Paradise Town Limits.

The Principles of Agreement created by the SRPAC were approved as Draft, without comments by both Paradise Town Council (April 2022) and Chico City Council (May 2022) and received no public comments in the 30-day public noticing period. The Principles were finalized in June 2022 by respective Town and City Councils with direction for staff to start preparing the formal InterMunicipal Agreement (IMA) for execution between the Town of Paradise and City of Chico following the certification of the Project's Final Programmatic Environmental Impact Report (FPEIR).

The Final Programmatic Environmental Impact Report (Final PEIR) assessed the potential environmental impacts of the proposed Project on the physical, human, and natural environment. A wide variety of resource areas were studied to identify potential impacts, including aesthetics, agriculture and forestry resources, air quality and greenhouse gas emissions, biological resources, cultural resources, energy, geology and soils, hazards and hazardous materials, hydrology and water quality, land use and planning, noise, population and housing, public services, recreation, transportation, tribal cultural resources, utilities and service systems, wildfire, and additional topics as required by the CEQA Guidelines including significant irreversible environmental changes, growth inducement, cumulative impacts, and alternatives. Measures to avoid, minimize, and mitigate any potential adverse impacts were identified and evaluated in the Draft PEIR.

The Town published the required documents for availability, distribution, and comments on the Draft PEIR, including a 45-day public review and comment period (July 14, 5pm, to August 29, 2022) and held three public meetings (August 8 (6:00pm), August 10 (12:30 and 6:00 pm), 2022). Responsible and trustee agencies, involved federal agencies, interest groups, and members of the public were invited to provide input on the Draft PEIR. Comments were submitted in person, at Town Hall and through www.paradisesewer.com. All input received was documented and addressed in the Final Programmatic Environmental Impact Report (FPEIR). A Public Hearing for the FPEIR was held on November 7, 2023 and was approved by the Paradise Town Council. A Notice of Determination was filed with the Butte County Recorder's Office with final certification complete on December 8, 2022.

## Analysis:

Following extensive reviews by both City of Chico and Town of Paradise staff and legal departments, a proposed Inter-Municipal Agreement has been completed and requires consideration by respective City and Town Council's for execution.

A copy of the IMA is included in this Agenda Summary. The IMA is consistent with the Principles of Agreement initially approved by the SRPAC and respective Councils.

It is anticipated that the City of Chico City Council will formally consider review and approval of the IMA at their regularly scheduled February 21, 2023 Council meeting.

Staff is recommending Town Council approve the presented IMA with authorization given to the Town Manager to approve any minor changes proposed by the City of Chico during their consideration process.

## Financial Impact:

There are no new financial impacts associated with this specific action requested. Project funding is addressed separately through various Council Actions and funding sources.

To date, all project costs within the prior three years have been secured through various grants with $\$ 30$ million secured for anticipated design and right of way phases. Further the Town of Paradise has pledged an additional $\$ 15$ million of Disaster Recovery Infrastructure funding to the construction phase of the project. Staff continues to seek additional grant funding opportunities, including significant funding through the Water Board Division of Financial Assistance under the 2022 State Budget Act's approved Septic to Sewer funding program.

## Attachments:

1. Inter-Municipal Agreement between the Town of Paradise and City of Chico

INTER-MUNICIPAL AGREEMENT
CITY OF CHICO WASTEWATER TREATMENT SERVICES TO THE TOWN OF PARADISE

FEBRUARY 21, 2023

THIS INTER-MUNICIPAL AGREEMENT ("Agreement") is made and entered into on $\qquad$ by and between the TOWN OF PARADISE, a municipal corporation (Town) and the CITY OF CHICO, a municipal corporation (City). Each may be referred to as a Party and together as the Parties.

## RECITALS

1. The Town of Paradise experiences public health and safety risks as a result of its failed or failing sewer system and has sought a solution for some time, as detailed in the Program EIR for the Paradise Sewer Project.
2. Through its work on the Paradise Sewer Project (Project), the Town of Paradise (Town) identified a connection to the Chico Water Pollution Control Plant (WPCP) as its preferred alternative for wastewater treatment and disposal and approached the City of Chico (City) to explore the feasibility of such a connection.
3. The Project improves groundwater quality and facilitates a regional wastewater approach.
4. The WPCP is part of the Chico sanitary sewer system.
5. The City of Chico Municipal Code Section 15.40.285, "Regulation of Waste Received from Other Jurisdictions," requires that any project with another municipality which would utilize the Chico sanitary sewer system requires an intermunicipal agreement (IMA) and sets out the requirements for such agreement.
6. To initially draft such an IMA, the Councils of the Town of Paradise, and City of Chico formed a Sewer Regionalization Project Advisory Committee (Committee) as a mechanism for exploring this proposal. The Committee was composed of two elected officials from each entity.
7. The Committee developed 17 Principles of Agreement (POA) that were posted for public review and comment between March 25 and April 25, 2022. No comments were received.
8. At a City Council meeting on June 7, 2022, and Town Council meeting on June 14, 2022, the two Councils approved the POA and directed counsel for each party to develop the IMA, based on the POA. A copy of the approved POA is attached and incorporated as Exhibit 1 to this Agreement.
9. On or about November 7, 2022, the Town Council certified the Program EIR for the Project; in addition, the Town filed a Notice of Determination for the Final Program EIR on December 8, 2022.
10. This IMA is intended to be a living and flexible document to guide the future relationship between the Parties in regarding the use of the Chico Sanitary Sewer System at the connection to the WPCP.

## Section 1. Recitals.

The Recitals set out above are true and correct.

## Section 2. Definitions.

Unless the context otherwise requires, the terms defined in this Section 2 shall for all purposes of this Agreement have the meanings specified here:

AUTHORIZED REPRESENTATIVE: The Town of Paradise Town Manager or designee and the City of Chico City Manager or designee.

CHICO SANITARY SEWER SYSTEM: The sewer system within the City of Chico, separate from the Town sewer system.

CHICO WPCP or WPCP: The Chico Water Pollution Control Plant.

CITY: The City of Chico.

COMBINED FLOW: The total flow within the pipe

CORE COLLECTION SYSTEM: The sewer system within the Town of Paradise identified in the Sewer Service Area.

DISCHARGE: The introduction of pollutants or wastewater into the City's sanitary sewer system by any means.

EXPORT PIPELINE SYSTEM: The portion of the Paradise Sewer Project beginning at the downstream point of the Town collection system and ending at the connection to the Chico WPCP.

INFILTRATION: Any inflow entering a collector, trunk, or interceptor sewer or service connections thereto from the ground through such means as, including but not limited to, defective pipes, pipe joints, connections, or manhole walls.

INFLOW: Any non-sewer discharge into the collector, trunk, or interceptor sewer or service connections thereto from such sources as, but not limited to, roof leaders, cellars, yard and area drains, foundation drains, cooling water discharges, drains from springs and swampy areas, manhole covers, crossconnections from storm sewers and combined sewers, catch basins, storm waters, surface runoff, street wash waters or drainage.

MAINTENANCE AND OPERATION COSTS: The reasonable and necessary costs of maintaining and operating a wastewater collection system calculated on sound accounting principles, including but not limited to the reasonable expenses of management, operation, repair and other expenses necessary to maintain and preserve the system in good repair and working order, and reasonable amounts for administration overhead, insurance, taxes (if any) and other similar costs.

MGD: Million gallons per day.

PRETREATMENT: The reduction of the amount of pollutants, the elimination of pollutants, or the alteration of the nature of pollutant properties in wastewater prior to or in lieu of discharging or otherwise introducing such pollutants into the Town or City's sanitary sewer system. The reduction or alteration can be obtained by physical, chemical or biological processes; by process changes; or by other means, except by diluting the concentration of the pollutant unless allowed by an applicable pretreatment standard.

PRETREATMENT PROGRAM: The City of Chico Municipal Code pretreatment requirements for wastewater pursuant to Chico Municipal Code Chapter 15 Article 3 commencing with Section 15.40.027.

PROJECT: The entire wastewater project that the Town of Paradise will construct to collect and convey wastewater to the Chico WPCP, also called the Paradise Sewer Project.

SANITARY SEWAGE: All liquid and water-carried waste from residences, business buildings, institutions, or other similar establishments, excluding storm waters, combined flow, and industrial waste.

SEWER SERVICE AREA: The area within the Town of Paradise where wastewater is collected consisting of the Core Collection Area (approximately 1,400 parcels within the Town's downtown and evacuations corridors). At no time shall the Sewer Service Area extend beyond the Town limits.

TOWN: The Town of Paradise.

TOWN CORE COLLECTION AREA/SYSTEM: The Wastewater Collection system within the Town of Paradise Sewer Service Area.

TOWN WASTEWATER FACILITIES: The combination of the Core Collection System and Export Pipeline System.

WASTEWATER: The liquid and water-carried industrial or domestic wastes from dwellings, commercial buildings, industrial facilities, and institutions, whether treated or untreated, which is contributed into or permitted to enter the Chico WPCP. This includes infiltration, inflow, and combined flow.

WASTEWATER COLLECTION: The combined sewer system, including pipelines conveying sewer.

WASTERWATER TREATMENT SERVICES: The services provided by the City of Chico to the Town of Paradise pursuant to this Agreement.

## Section 3. General Terms and Conditions.

## A. Purpose of Agreement:

It is intended that this Agreement meet the requirements of the applicable provisions of Chico Municipal Code Section 15.40.285 for an inter-municipal agreement for connection of the Town's Sewer Service Area to the Chico WPCP as well as provide for the roles and responsibilities for the provision of wastewater discharge for the Paradise Sewer Project.

It further is intended that this Agreement serve as an inter-municipal agreement to be submitted to the Butte County Local Agency Formation Commission.

## B. Term and Termination:

This Agreement shall become effective as of the date of approval of both Parties and thereafter an Extension of Services approval by the Butte County Local Agency Formation Commission; thereafter, it shall continue in full force and effect until terminated by written agreement of all the parties hereto, as provided in Section 17, or by operation of law.
C. Scope of Authority and Services:

1. City's Financial Responsibility: The City shall finance, construct, reconstruct, operate, repair and maintain all facilities for the treatment and disposal of sanitary sewage and industrial waste delivered to the WPCP originating from the Town's Sewer Service Area in compliance with all applicable laws and regulations and the terms of this Agreement. Except as otherwise provided herein, the City shall not be financially responsible for any costs of Town's Wastewater Facilities.
2. Town's Financial Responsibility: Except as otherwise provided herein, the Town shall be financially responsible for any and all costs of Town's Wastewater Facilities and shall finance, construct, reconstruct, operate, repair and maintain all collector and trunk sewers for wastewater originating within its Sewer Service Area in compliance with this Agreement and all applicable laws and regulations, including but not limited to those of the City of Chico and specifically Chico Municipal Code Sections 15.40.024 and 15.40.027, and the terms of this Agreement.
D. Project Committee:

Upon execution of this Agreement by both Parties, each Party shall appoint an Authorized Representative to represent it in dealing with ongoing operations and provide written notice and contact information for its Authorized Representative to the other Party.

During the construction of the Project, the Parties shall work together through a project coordination team (PCT). The PCT will include each Party's Authorized Representative and such other staff or consultants as each Party desires. The PCT will meet periodically as agreed by its members, but at least monthly, to review progress and cooperate in fulfilling each Party's responsibilities under this Agreement.

Upon completion of the Project and connection to the WPCP, the Authorized Representatives shall continue to represent each Party and the PCT will continue to assist the Parties.

Each Party shall bear its own expenses for the PCT unless otherwise agreed in writing.

## E. Good Faith Cooperation:

The Parties will act in good faith and cooperate with each other in operating the Paradise Sewer Project and the WPCP. The Parties will provide the necessary services of their Authorized

Representatives to perform their duties under this Agreement and provide any necessary institutional and financial support to meet their obligations under this Agreement.

## F. Disclosure of Financial Information, Operating Data, and Other Information:

Each Party agrees to furnish such financial, operating, and other data pertaining to the Paradise Sewer Project and WPCP respectively as may be requested by the other Party or the State Water Resources Control Board.

## G. Operating Agreement:

The City and Town will enter into a more detailed Operating Agreement which may become part of this Agreement. That Operating Agreement shall deal with the engineering and technical details of the connection to the WPCP and system operations and maintenance thereafter. The Operating Agreement also may allocate operational responsibilities and costs. The execution of the Operating Agreement is a condition precedent to the Town discharging any wastewater to the WPCP.

## Section 4. City Provision of Wastewater Capacity to the Town.

A. The City guarantees that in consideration of the Town's initial treatment connection payment (described in Section 12), commencing as of $\qquad$ the Town of Paradise is allocated, guaranteed and entitled to discharge up to, but no more than, 0.464 million gallons per day (mgd) average dry weather flow (ADWF) to the WPCP. ADWF will be calculated using criteria specified by the Central Valley Regional Water Quality Control Board in the Chico National Pollutant Discharge Elimination System (NPDES) permit as revised from time to time.
B. If the Town exceeds this allocated amount of discharge, Town shall pay to City normal fees plus a flat $20 \%$ penalty fee.
C. When the Town's discharge reaches $90 \%(0.4176 \mathrm{mgd})$ of the agreed upon 0.464 mgd capacity allocation, the following shall occur:

1. Town will prepare and submit to the City an Allocation Assessment Report. The report shall include a review of options, including maintaining the 0.464 mgd flow limit, or commence efforts to negotiate additional capacity to be discharged to the WPCP, including required environmental review and approvals.
2. The Town will review proposed or new connections and continue to approve new connections only in a manner that does not exceed the 0.464 mgd allocation.
3. If the Town reaches the 0.464 mgd flow limit, the Town shall not allow additional connections to its sewer system until discharges are reduced to the flow limit. Alternatively, the City and Town, in an Amendment pursuant to Section 19.E Modifications of Agreement, may agree on an increase in the allowable discharge to the WPCP, including required environmental review and approvals.
D. The boundaries of the area served under this Agreement cannot exceed the boundaries of the Town.
E. All other applicable requirements for the connection of the Core Collection and Extended Collection Systems must be met, including but not limited to capacity at the Chico WPCP.
F. The Town and the City shall prohibit connections to the Export Pipeline System from that portion of the pipeline that sits outside of the Town limits.

## Section 5. Town Adoption of City Sewer Use Ordinance.

A. The Town will adopt a sewer use ordinance at least as stringent as that set out in City Municipal Code Section 15.40 Article II (attached and incorporated as Exhibit " 2 ") which ordinance is acceptable to the City. Town thereafter will update the ordinance so that it remains consistent with the City's ordinance (the "Sewer Use Ordinance"). Such ordinance shall be in effect no later than the time of the completion of construction of the Export Pipeline System and before connection to the WPCP.
B. The Sewer Use Ordinance shall apply to all Wastewater discharges from the Town.
C. The Sewer Use Ordinance shall address and the Town shall develop and administer a Sewer Application process. The Sewer Application process shall consist of two parts: a Town-reviewed portion for the connection to the Core Collection or Extended Collection System and a City-reviewed portion for treatment for industrial uses which meet the discharge thresholds set out in Section 15.40.285 (the Pretreatment Program, attached and incorporated as Exhibit " 3 ").
D. The Town generally will not be required to pretreat its discharges. However, all Town wastewater discharges are subject to the Pretreatment requirements of the City's Pretreatment Program as set out in this Agreement and in the City Code.
E. The City review of Town wastewater discharges for Pretreatment requirements will be the same as the existing program within the City. When the proposed Discharge exceeds the thresholds established in the Pretreatment Program, the discharger will be required by the City to treat its Discharge to a sufficient degree to meet the City's Pretreatment Program requirements. The Town does not have a role in enforcing such requirements.

## Section 6. Information Provided by the Town to the City:

A. Quarterly Report:

Commencing as of the first date of the discharge into the Export Pipeline System, the Town shall submit a quarterly report of all entities discharging into its Core Collection System, classified by residential and commercial dischargers. The report shall be in a format determined by the City. This quarterly report also shall contain an estimate of the number of new connections estimated to
occur over the next 12-month period, broken down by the same classifications, and expected changes in volume and character of wastewater discharge within that time period.
B. Annual Inventory:

The annual inventory shall be based upon the quarterly inventory and shall reflect data from July 1 through June 30 of each fiscal year, and will be submitted by August 1 of each year, commencing with the first year of operation of the Core Collection System.

The annual and quarterly reports and inventory process also shall apply to the Extended Collection System and any other connections within the Sewer Service Area.

The Town also shall provide information requested by the City Director of Public Works ("Director"), including but not limited to a description of the quality and volume of wastewater discharged to the City's sanitary sewer system by the Town and such other information as the Director shall deem necessary.

## Section 7. Access to Town Facilities.

A. The Town hereby grants to the City access to the Town Wastewater Facilities, including but not limited to those within the Town's boundaries for purposes of inspection, sampling, and other duties deemed necessary by the City. The City will give the Town sufficient notice to allow the Town to arrange safe access to the facilities. The Town and City will agree upon efficient ways to jointly conduct inspections to minimize impacts to both entities' staff.

## Section 8. Wastewater Monitoring.

A. As part of the Project, the Town will construct the Flow Control and Metering Structure which will contain flow control and monitoring equipment. The Flow Control and Metering Structure will be located at or near the WPCP. The Flow Control and Metering Structure shall contain Wastewater monitoring equipment (e.g., flow meter, composite sampler). Because the City has staff familiar with this type of equipment, and because it has its own Wastewater laboratory for testing Wastewater samples, the flow metering and monitoring equipment may be operated and maintained by City staff or their designees, and samples may be processed in the City lab or designated lab. The costs for these services shall be incorporated within the agreed-upon monthly fee structure for Wastewater Treatment Services provided by the City to the Town.
B. Consideration will also be given by the Parties to having some level of monitoring equipment at the upper end of the Export Pipeline System with access granted by the Town to the City.

## Section 9: Pretreatment: Administration and Compliance with Requirements.

A. It is anticipated that a majority of the Wastewater discharges into the Paradise collection system will be of typical residential and commercial quality. However, all potential Town discharges will be subject to the Pretreatment requirements of this Agreement.
B. The Town shall follow the City's Pretreatment Program, including future changes required by law or by the City. The Town will not develop a pretreatment program of its own. This includes but is not limited to the City's Fats, Oils \& Grease (FOG) program. Dischargers will follow the City's Pretreatment Program application process, which includes setting monthly fees to be paid to the City. Pretreatment program fees will be collected by the Town and conveyed to the City, similar to the process outlined in Chapter 15 Article 3 commencing with 15.40 .027 of the Chico Municipal Code.
C. Application for sewer service first shall be made to the Town. Thereafter, all such applications will be provided to the City for review for Pretreatment requirements. The City has a Pretreatment Program to identify and monitor industrial or commercial dischargers who exceed certain thresholds. The review for Pretreatment requirements will be the same process as currently used by the City. If the proposed discharge exceeds the thresholds established in the Pretreatment Program, the discharger will have to treat its discharge to a sufficient degree to meet the City's Pretreatment Program requirements. The Town will reimburse the City for the costs of handling Pretreatment applications upon receipt of an invoice from the City showing the number of applications and per application cost.
D. The Town shall provide the City with all information it obtains relative to meeting the City's Pretreatment Program requirements.

## Section 10. Town Operation and Maintenance of Facilities.

A. Subject to any exceptions and limitations set forth in this Agreement, the Town shall own and have the sole responsibility to finance, construct, reconstruct, operate, repair, replace and maintain all collector and trunk sewers for Wastewater originating within the Sewer Service Area, and all components of the Export Pipeline System that conveys Wastewater from the Sewer Service Area to the Chico WPCP, including but not limited to the Flow Control and Metering Structure at or near the Chico WPCP.
B. Inflow and Infiltration: Town will complete such corrective measures to eliminate excessive inflow and infiltration as are reasonably demonstrated to be cost effective by studies conducted and funded by the Town
C. Nothing in this Agreement prohibits the Town from contracting with the City to carry out the Town's responsibilities as to the Export Pipeline subject to one or more separate agreements.

## Section 11. City Operation of WPCP.

A. Subject to the exceptions and limitations set forth in this Agreement, City has the sole responsibility to finance, construct, reconstruct, operate, and maintain the WPCP in compliance with all applicable regulatory requirements, as those may be modified from time to time.

## Section 12. Allocation of Costs, Establishment of Service Rates and Procedures for the Collection of Sewer Rates and Delinquent Charges.

A. Initial Treatment Connection Payment:

In consideration of the provision of the capacity in the WPCP set out in this Agreement, the Town shall pay to City approximately $\$ 14.9$ million, payable in full at the time initial Wastewater flows begin from the Core Collection Area. This amount may be recalculated approximately six months before that date pursuant to the "Regionalization Planning Report for the Paradise Sewer Project (March 2022)," attached and incorporated as Exhibit "4."

This payment shall be used by the City only for capital costs associated with projects implemented at the WPCP. No flows shall be accepted by City until this payment has been made. The Town at its sole discretion may provide for the recovery of all or a portion of this payment in its sewer rates or sewer connection and capacity charges.
B. Subsequent Treatment Connection Fees:

In the event a new project or modification by the City is required solely for the purpose of sustaining the Town's connection, the City shall formally notify the Town of anticipated improvements, costs and schedules for an evaluation of alternatives including the Town modifying its monthly sewer rates. The Town shall pay to the City the Town's proportionate share of costs for improvements or modifications to the WPCP required by any regulatory agency only as a result of the Town connection and excluding any such costs for City connections or services.
C. Town Capacity and Connection Charges:

The Town will develop both capacity and connection charges as well as sewer impact fees applicable to new connections to the sewer system in the amounts and in the manner allowed by law.
D. Town Monthly Sewer Rates:

The Town shall develop sewer rates to be billed on a monthly basis, which will include the Town's and City's costs. Such rates shall be in the amounts allowed by law and shall be approved as required by Proposition 218 and other applicable laws. The City's monthly costs associated with wastewater treatment and disposal at the WPCP shall be included in such rates along with any additional pretreatment fee charged to special dischargers, according to the same metric as the City ratepayers.
E. Town Collection of Sewer Rates:

The Town shall periodically levy, bill, and use reasonable efforts to collect from each of its residential and commercial system users such sewer user charge.
F. Town Sewer Rate and Payment Records:

Adequate records shall be maintained by the Town to permit ready, separate identification of City Services and of local service charges, amounts received, and payments made to the City.

## G. Pretreatment Costs:

In addition to City Wastewater treatment and disposal charges, a Town discharger subject to pretreatment requirements shall be responsible for payment of the City's charges for participating in the Pretreatment Program. Pursuant to Section 6, City shall collect all information from the Town needed to compute such charges and administer the approval process, provide such costs to the Town for such charges and adjust such charges as allowed by law. The Town shall be responsible for including such cost in its monthly sewer billings. The City shall be responsible for compliance with applicable law in setting such charges.

## Section 13. Town Payment of Sewer Charges to City.

A. Not later than 45 calendar days following the date of each regular periodic billing for sewer charges, the Town shall pay to the City a sum that equals the total of all charges for City that were charged to Town for that billing period, regardless of the amount collected by Town from its users. Payments shall be accompanied by a summary identification by billing categories. A periodic (semi-annually) report shall be submitted to the City reconciling billings with payments.

## Section 14. Monthly Treatment User Fees.

A. In addition to any other user and Pretreatment fees, the City shall establish a WPCP treatment fee as part of its overall City fee structure. Similarly, the Town of Paradise users will be charged WPCP treatment fees in accordance with residential, commercial, and industrial uses, and such fees shall not be higher than the proportional fees collected from the City's rate payers for WPCP treatment.

The Town will pay the treatment fee established in the City's fee schedule, including any future increases made to those fees. For any fee increases to City users, the City shall undertake the Prop 218 process. For any fee increases to Town users, whether initiated by Town or passed through to Town by City, Town shall undertake the Prop 218 process as required by law.

The Town will collect the treatment monthly user fee from its users. The Town will submit the total treatment monthly user fee amount to the City as set out in Section 13 above.

## Section 15. Additional Provisions.

A. No Joint and Several Liability:

Neither party to this Agreement nor any officer or employee thereof shall be responsible for any liability occurring by reason of anything done or omitted to be done by the other party to this Agreement under or in connection with any work, authority or jurisdiction delegated to said other party under this Agreement. It is understood and agreed that this Agreement does not create a joint powers agency and, pursuant to California Government Code Section 895.4, each party to this Agreement shall fully indemnify and hold each other party to this Agreement harmless from any liability imposed for injury (as defined by California Government Code Section 810.8) occurring by reason of anything done or omitted to be done by said indemnifying party under or in connection with any work, authority or jurisdiction delegated to said party under this Agreement. There shall be no joint and several liability as a result of this Agreement.
B. Auditing Records:

The City shall have the authority to appoint such auditors as it deems necessary for the examination of financial records of the Town to determine compliance with this Agreement. The Town shall make available to such auditors all requested records and will assist and cooperate with the auditors in their efforts. Examples of required documentation may include reasonable efforts to collect delinquent charges; details of uncollectable charges; and account billing information by parcel.

## Section 16. Resolution of Disputes.

A. "Dispute" means disputes, claims or other matters in question regarding the discharge of wastewater from the Town Wastewater Facilities to the Chico WPCP, which may or may not be a breach of this Agreement. Either party may initiate the dispute resolution process. No matter will be considered if it is a claim barred by an applicable statute of limitations or the provisions of local, state or federal law.

1. Initial Informal Resolution:

Either Party's Authorized Representative may provide the other Party's Authorized Representative a written letter or memo setting out the dispute in writing in sufficient detail to allow its resolution (with relevant back up materials), the remedy sought and the timing for resolution. The receiving party may request additional information. Once each side has the information necessary, the Authorized Representatives shall meet (in person or virtually) within a reasonable period of time (not to exceed one month) to try to resolve the dispute. Any resolution shall be in writing, attached to all materials provided, and retained for future reference.
2. If the Authorized Representatives cannot resolve the dispute, the process will be repeated with the senior executives of each party (i.e., public works director or city manager).
3. If the matter involves a technical operational matter, and the Parties themselves cannot resolve it, they may designate an independent expert to analyze the issue and provide recommendations for resolution. The Parties will evenly divide the costs of such an independent expert.
4. If the dispute is not otherwise resolved, the Parties will engage in non-binding mediation or arbitration.
5. Mediation:

If the Dispute is not resolved, then prior to any litigation of the Dispute commenced by either or both Parties, the Parties must jointly attempt to resolve the Dispute through mediation with a mutually acceptable mediator. If the Parties are unable to agree on a mediator within ten days of the request for mediation, then the Party requesting the mediation will request that JAMS or the American Arbitration Association to appoint a mediator from its personnel/panel experienced in similar disputes.

With the prior written approval of the Parties, the mediator may engage an expert consultant to provide independent analysis to the mediator on technical matters, which analysis the mediator may share with the Parties in mediator's discretion. The Parties and mediator will schedule a mediation session at a mutually acceptable time. Representatives from each Party who have authority to resolve the Dispute will attend the mediation. The mediator will have no authority to make binding decisions; any resolution of the Dispute during mediation requires the written agreement of both Parties. The Parties will bear the cost of mediation equally.

If mediation is not successful, the Parties may pursue any other remedy allowed by law and not prohibited by this Agreement, including but not limited to, binding arbitration or court action.
6. Continuation of Work:

Each Party must continue to perform its obligations under this Agreement, including but not limited to making all undisputed payments, regardless of the existence of a Dispute or the pendency of dispute resolution proceedings between the Parties. In no case shall the treatment of wastewater delivered from Paradise to the Chico WPCP cease.

## Section 17. Default.

A. Failure of Chico to Properly Treat Wastewater:

It is understood and agreed that City, in granting to the Town the rights herein specified to discharge Wastewater into the WPCP and to have such Wastewater treated and disposed of in said system, is agreeing that the WPCP will be able to satisfactorily treat such Wastewater when delivered pursuant to the terms of this Agreement. In the event the Chico WPCP should for any reason be incapable of satisfactorily conveying, treating, or disposing of Wastewater discharged from the Town, the Town shall in no way be liable to the City for any damages arising or resulting from or suffered because of that failure; provided, however, that the Town shall not knowingly permit to be discharged into Chico WPCP any Wastewater from any source at rates of flow, strength or other characteristics inconsistent with this Agreement or those for which the WPCP is designed to handle or has been shown capable of handling by prior experience. The Parties agree that the City's obligations are unique and that the City's failure to meet its obligations under this Agreement would result in Town being unable to supply wastewater treatment in compliance with regulatory requirements, or in providing continuing sewer services, thereby harming the public welfare.

Therefore, without limiting any other of the Town's rights or remedies if the City fails to cure a material default which results in Town being unable to use the WPCP facilities, City agrees that the Town may bring an action for specific performance of this Agreement by the City, without waiving (1) any defense to such action; (2) its right to contest whether the City is in breach of a contractual obligation or (3) Town's obligation under Civil Code Section 3386 (or any successor statutory provision) to assure Town's performance of this Agreement.
B. Failure of Paradise to Properly Convey Wastewater:

Except as provided in Section 17.C, below, City agrees that its only remedy for a material default by the Town is a claim for monetary damages to the extent allowed under this Agreement. Except as provided in Section 17.C, below, in no event may the City suspend, slow down or cease to fulfill its obligations under this Agreement to operate the Chico WPCP and accept Paradise wastewater without the written consent of the Town. Except as specifically provided otherwise in this Agreement, before the City may seek a remedy for a material default by the Town, the City must provide written notice of such default to the Town. The notice must describe the nature of the default and identify a reasonable period for cure which must be at least 30 thirty calendar days after the notice of default and which will be extended as reasonably necessary for the cure of that default, so long as the Town commences and pursues the cure with reasonable diligence during the identified time period. If the Town fails to cure the default within that time period, then the City may proceed with dispute resolution set out in Section 16.
C. Termination:

Parties agree to fully exhaust all measures outlined in Section 16 of this Agreement prior to consideration of termination of this Agreement. Parties further agree that if termination of this Agreement needs to be explored, terms shall be incorporated within a formal Amendment to this Agreement pursuant to Section 19.E Modifications of Agreement.

## Section 18. Insurance and Indemnification.

A. Insurance:

Insurance requirements for both the City and Town are listed in Exhibit " 5 " of this Agreement.
B. Town's Duty of Indemnification and Defense:

To the fullest extent permitted by law, Town will defend, indemnify and hold City and its officers, agents and employees harmless from any and all claims, losses, damages, liabilities, fines, penalties, administrative proceedings, legal actions and expenses (including reasonable legal, expert witness and consulting fees and costs) to the extent arising out of, or resulting from the active negligence or willful misconduct of Town in connection with the Paradise Sewer Project or arising out of this Agreement.

If Town fails diligently to defend any such claim or proceeding, City shall have the right, but not the obligation, to do so at the Town's expense. The duty to defend will apply, and Town will be required to furnish a defense, notwithstanding that there has not yet been an adjudication or finding of liability on the part of either Party, or as to whether an exception to provide a defense or indemnity may apply.

Notwithstanding the above, Town will not be required to defend, indemnify and hold harmless City or its officers, employees or agents ("City") when such claims, losses, damages, liabilities and expenses arise from the sole active negligence or willful misconduct of City or those for whom City is responsible, which include fines imposed by administrative agencies, specifically including but not limited to fines from the Regional Water Board arising from City's operation of the WCPC.
C. City's Duty of Indemnification and Defense:

To the fullest extent permitted by law, City will defend, indemnify and hold Town and its officers, employees and agents affiliates harmless from any and all claims, losses, damages, liabilities, fines, penalties, administrative proceedings, legal actions, and expenses (including reasonable legal, expert witness and consulting fees and costs) including but not limited to those for costs for fines imposed by the Regional Water Board or other agencies arising from City's operation of the WCPC, to the extent arising out of or resulting from the active negligence or willful misconduct of City in providing or failing to provide services at the WPCP under this Agreement, and including but not limited to any challenges arising under City's rate setting process. Notwithstanding, the City will not be required to defend, indemnify, and hold harmless Town or its officers, employees or agents for their sole active negligence, or willful misconduct.

The City's obligations include providing the Town with copies of pleadings or other documents and the status of all such proceedings; coordinate any settlement of such claims and obtain full releases.

If City fails diligently to defend any such claim or proceeding, Town shall have the right, but not the obligation, to do so at the City's expense. The duty to defend will apply, and City will be required to furnish a defense, notwithstanding that there has not yet been an adjudication or finding of liability
on the part of either Party, or as to whether an exception to provide a defense or indemnity may apply.

## Section 19. Miscellaneous.

## A. Force Majeure/State of Emergency:

Force Majeure Event means a natural disaster, terrorist action or act of war, epidemic, pandemic, grave natural disaster, negligence on the part of the state, the United States, or any department or agency thereof, an act of governmental agency an intentional ace of a third party, the effects of which could not have been prevented or avoided by the exercise of due care or foresight, any other circumstance or event that causes a discharge despite the exercise of every reasonable precaution to prevent or mitigate the discharge or other emergencies, whether or not declared a State of Emergency beyond the control of the Parties that that impacts performance under this Agreement.

1. In anticipation of or upon occurrence of any Force Majeure Event, each Party will notify the other's Authorized Representative. The Parties will notify and follow the guidance of the State Water Resources Control Board and Central Valley Water Resources Control Board.
2. During the period of any Force Majeure Event the performance of this Agreement is abated and/or excused to the extent such performance was rendered impossible or extremely difficult.
3. If a Force Majeure Event caused damage to the Chico Sanitary Sewer System, City shall use reasonable efforts to restore or mitigate the damage. City shall perform such restoration or mitigation in a reasonable time under the circumstances and at the sole cost and expense of City.
4. If a Force Majeure Event caused damage to the Town Wastewater Facilities, Town shall use reasonable efforts to restore or mitigate the damage. Town shall perform such restoration or mitigation in a reasonable time under the circumstances and at the sole cost and expense of Town.

## B. Emergency Notification:

Each Party will promptly notify the other of material problems in the operation of the Paradise Sewer Project or Chico WPCP that affect the other Party, including, but not limited to:

1. Contamination from Paradise into the Export Pipeline.
2. Break in the Export Pipeline.
3. Reduced capacity at the WPCP.
4. Discharge violations at the WPCP.
C. Notice:

Notices required or permitted under this Agreement shall be sufficiently given to a party if in writing and if either served by email, facsimile, personally upon or mailed by registered or certified mail to the clerk of its governing body.
D. Time of the Essence:

Time is of the essence in this Agreement.

## E. Modification of Agreement:

No term, provision, or condition of this Agreement shall be altered, amended, or departed from or be held or construed to have been waived except by the unanimous agreement and consent of the parties to this Agreement as evidenced by resolutions adopted by their respective governing bodies specifically authorizing the amendment. No waiver of any term or condition of this Agreement shall be a continuing waiver thereof.

This Agreement shall be reviewed 3 years from initial execution and every 5 years thereafter by the Parties and updated or revised as necessary.

Any modifications to the Agreement shall include a formal notification to the Water Board prior to execution.

## F. Severability:

If any paragraph, subparagraph, sentence, clause, phrase, or word of this Agreement, or the application thereof, to any party, or to any other person or circumstance is for any reason held invalid, it shall be deemed severable and the validity of the remainder of the Agreement or the application of such provision to the other parties, or to any other persons or circumstance, shall not be affected thereby. Each party hereby declares that it would have entered into this Agreement and each paragraph, subparagraph, sentence, clause, phrase, and word thereof irrespective of the fact that one or more paragraphs, subparagraphs, sentences, clauses, phrases, or words, or the application thereof to any party or any other person or circumstance, be held invalid.
G. Further Assurances:

Each Party will adopt, make, execute and deliver any and all such further resolutions, instruments and assurances as may be reasonably necessary or proper to carry out the purposes and intent of this Agreement.
H. Jurisdiction and Venue:

This Agreement will be governed by the laws of the State of California. The Parties agree that the exclusive venue for any legal proceeding brought under this Agreement will be in the County of Butte, State of California.
I. Successors and Assigns:

It is mutually agreed by all the parties hereto that the agreements, covenants, conditions, limitations, restrictions, and undertakings herein contained shall apply to and bind the successors and assigns of the respective parties hereto as if they were in all cases named.
J. Section Headings:

The Section Headings contained in this Agreement are for reference purposes only and will not in any way affect the meaning or interpretation of this Agreement.
K. Entire Agreement:

This Agreement constitutes the entire integrated agreement between the Parties and supersedes all prior oral and written negotiations, representations, or agreements by the Parties with respect to this subject matter.
L. Counterparts:

For convenience the Parties may execute and acknowledge this Agreement in counterparts and when the separate signature pages containing original signatures are attached to the original Agreement or a copy of the Agreement, such document shall constitute one and the same complete original Agreement.

## CITY OF CHICO

NAME, City Manager<br>Approved as to form:

$\qquad$
NAME, City Clerk

TOWN OF PARADISE

NAME, Town Manager

Approved as to form:
$\qquad$
NAME, Town Attorney

ATTEST:

NAME, Town Clerk

Date: $\qquad$

Date: $\qquad$

Date: $\qquad$

Date: $\qquad$

Date: $\qquad$

Date: $\qquad$

# Final Principles of Agreement (version 7, 21-March-2022) 

## Introduction and Background

Through its work on the Paradise Sewer Project (Project), the Town of Paradise (Town) has identified a connection to the Chico Water Pollution Control Plant (WPCP) as its preferred alternative for wastewater treatment and disposal, and has approached the City of Chico (City) to explore the feasibility of such a connection. The Councils of the Town of Paradise and City of Chico have formed a Sewer Regionalization Project Advisory Committee (Committee) as a mechanism for exploring this proposal. The Central Valley Regional Water Quality Control Board (Regional Board) has agreed to facilitate the activities of the Committee.

Membership on the Committee is limited to elected officials from the Town and City, as those two parties are signatories to the Cooperative Funding Agreement (CFA) and will be signatories to a future inter-municipal agreement (IMA). The Town and City have both designated their Mayors and Vice Mayors as their Committee members.

The Committee will develop an agreed-upon list of basic principles for an IMA, which will be captured in this document, the Principles of Agreement (POA). It is anticipated that a draft POA will be developed by the Committee, which will then be brought to the Town Council and City Council for review and approval. The final POA would then be turned over to legal counsel from the Town and City to draft into an IMA for consideration by the Town Council and City Council.

## City of Chico Municipal Code

The City of Chico has a provision in its municipal code Section 15.40.285—Regulation of Waste Received from Other Jurisdictions that specifically addresses handling wastewater from outside the city's sanitary sewer system. That code section is presented in its entirety at the end of this document.

## Principles of Agreement

The Principles of Agreement are divided into 17 subject areas, as listed below. (Other subject areas may be added over time.) The first eight items reflect the eight items specified in Section 15.40.285. Over the course of its work, the Committee will develop specific agreed-upon statements (principles of agreement) for each of these items.

1. Sewer Use Ordinance: The Town will need to adopt a sewer use ordinance that parallels the City's sewer use ordinance. The POA could contain a commitment from the Town to have an ordinance completed by a certain milestone.
o AGREED: The Town will adopt a sewer use ordinance that parallels the City's ordinance. The Town's ordinance shall be adopted and in place 30 days prior to the commencement of discharge into the Project.
2. User Inventory: The Town will need to submit an annual inventory of entities discharging into the sewer system. The POA could contain a statement to that effect.
o AGREED: The Town will submit a quarterly inventory of entities discharging into its sewer system, classified by residential and commercial dischargers. This quarterly report will also contain an estimate of new connections estimated to occur over the upcoming 12 months, broken down by the same classifications.

This inventory will reflect data from July 1 through June 30 of each year, and will be submitted by August 1 of each year.
o AGREED: The Town will develop and administer a Sewer Application process, with two parts-a Town-reviewed portion for the collection system and a Cityreviewed portion for treatment. The treatment portion will follow the existing City sewer application. If the proposed discharge exceeds the thresholds established in the pretreatment program (see below), it will have to treat its discharge to a sufficient degree to meet the City's pretreatment program requirements. Businesses would face the same pretreatment requirements, whether they are in Paradise or Chico.
o AGREED: The Town and the City agree to prohibit future connections to the export pipeline in the portion of the pipeline that sits outside of the Town limits or City limits.
3. Pretreatment: The City has an existing pretreatment program to monitor industrial/ commercial dischargers, which Town dischargers will need to meet. (The City has two employees conducting annual inspections of commercial/industrial dischargers.) The POA could contain a statement to that effect. In addition, the Town will need to decide whether to create and administer its own pretreatment program, or simply comply with the City's pretreatment program. Ultimately, the Town and City will need to determine who implements the various pretreatment activities for Paradise dischargers. The POA could contain the basic definition of these divisions of responsibility.
o AGREED: The Town will follow the City's pretreatment program, including future changes; the Town will not develop a pretreatment program of its own. This includes the City's Fats, Oils \& Grease (FOG) program. Dischargers would follow the City's pretreatment program application process, which includes setting monthly fees. Pretreatment program fees will be collected by the Town and conveyed to the City, similar to the process outlined in Item 10.
4. Pretreatment Data Access: The Town will need to provide the City with all information it obtains related to the pretreatment activities. The POA could contain a statement to that effect.
o AGREED: The Town will provide the City with all information it obtains relative to meeting the City's pretreatment program requirements.
o AGREED: Paradise will contract with the City or hire and use qualified professionals (Industrial Waste Inspectors, testing, labs, etc.) to conduct its pretreatment activities. [Staff Input: This statement may no longer apply, given the decision made on Item 3-Pretreatment. Delete.]
5. Wastewater Limits: The agreement will need to define limits on the volume and quality of Paradise wastewater discharged to the Chico Water Pollution Control Plant (WPCP). This will likely be addressed by the City's CFA efforts; the Committee would then review those
results and draft POA language. Town and City staff are currently awaiting results from the City's engineering consultant in order to draft suggested language for this item.
o AGREED: Associated with the treatment connection payment (described below), the Town of Paradise wastewater flow to the Chico WPCP will be limited to 0.464 million gallons per day (mgd) average dry weather flow (ADWF). ADWF will be calculated using criteria specified by the Central Valley Regional Water Quality Control Board in the Chico permit. It is anticipated that a majority of the wastewater discharges into the Paradise collection system will be of typical residential and commercial quality. However, all potential Town discharges will be subject to the Pretreatment requirements of this agreement, as specified in Section 3.
6. Wastewater Monitoring: The agreement will need to define how the volume and quality of Paradise wastewater will be monitored.
o AGREED: The Termination Structure, to be constructed as part of the Paradise Sewer Project, will contain wastewater monitoring equipment (e.g., flow meter, composite sampler). Because the City has staff familiar with this type of equipment, and because it has its own wastewater laboratory for testing wastewater samples, the flow metering and monitoring equipment will be operated and maintained by City staff, and samples will be processed in the City lab. Consideration will also be given to having some level of monitoring equipment at the upper end of the export pipeline. A payment will be negotiated at the start of the contract and paid annually by the Town to the City to cover the costs associated with these efforts.
7. Access to Facilities: The City will need to be granted access to the Town's wastewater facilities, including those within the Town's boundaries. The POA could contain a statement to that effect.
o AGREED: The Town will grant the City access to the Town's wastewater facilities, including those within the Town's boundaries for purposes of inspection, sampling, and other duties deemed necessary by the City. The City will give the Town sufficient notice to allow the Town to arrange safe access to the facilities. The Town and City will look for efficient ways to jointly conduct inspections to minimize impacts to both entities' staff.
8. Remedies for Breach of Agreement: Like all legal agreements, the IMA will need to address how the parties would handle any breach of the agreement. This item might need input from Town and City attorneys, in order to draft appropriate POA language. These remedies will vary by the various required items in this POA.
o AGREED: If disagreements exist between the Town and City attorneys regarding agreement language, those disagreements will be brought back to the Committee to attempt to resolve.

## Exhibit 1 - Principles of Agreement

9. Treatment Connection Payment. A number of items need to be addressed related to the treatment connection payment to be paid by the Town for connecting to the Chico WPCP. These will likely be addressed by the City's CFA efforts; the Committee would then review those results and draft POA language. Items include:
o How much should the initial connection payment be (e.g., for the initial Paradise flow or the ultimate flow)?
o If ongoing connection fees are to be collected for future connections, how much should they be (e.g., linked to the City of Chico's current connection fee schedule)?
o How should they be collected and paid to the City of Chico (e.g., collected by the Town of Paradise on an ongoing basis and paid to the City of Chico quarterly)?
o AGREED: The goal is to obtain funding for the treatment connection payment in a similar manner to the remainder of the Paradise Sewer Project. The payment is currently estimated at $\$ 14.9$ million (estimated as December 2026 dollars; as documented in "Regionalization Planning Report for the Paradise Sewer Project," Carollo Engineers, March 2022), which the Town of Paradise would pay to the City of Chico to cover treatment capital costs associated with a wastewater flow from the Town of 0.464 mgd ADWF (see ADWF definition above). From six to 12 months before the date of connection, the estimated treatment connection payment will be recalculated using the methodology established in the Carollo study. This payment is assumed to be made at the time that initial Paradise flows are sent to the Chico WPCP, currently estimated to start on or about December 2026.
10. Monthly User Fees. A number of items need to be addressed related to the monthly fees to be paid by the Town for discharging to the Chico WPCP. (Note: The City does not currently break its monthly fees into treatment and collection system components.) Items include:
o How much should the monthly user fees charged to the Town be (e.g., linked to the treatment portion of the City of Chico's current monthly user fees)?

- AGREED: Assuming that the City establishes a treatment portion of its monthly user fee, the Town users will pay that treatment monthly user fee to the City. Town users will also pay a collection system monthly user fee to the Town associated with the Town's collection system and export pipeline O\&M costs.
o How should they be collected and paid to the City of Chico?
- AGREED: The Town will collect the treatment monthly user fee from its users. The Town will submit the total treatment monthly user fee amount to the City on a [monthly/quarterly] basis. The Town will be responsible for collecting unpaid treatment monthly user fees from its users.
o How should future rate updates be handled?
- AGREED: As discussed above, the Town users will pay the treatment monthly user fee established in the City's fee schedule, including any future increases made to those fees. The assumption is that the City and Town users will pay the same monthly treatment fee based on the established fee schedule. Future increases will follow the Prop 218 process, including public noticing.
o [There is potential for power generation as the wastewater moves from Paradise down off the Ridge to Chico. Need to address potential for sharing any electrical generation revenue.]
- AGREED: It is generally not practical to generate electricity from raw wastewater flows, especially intermittent flows that we will see in the export pipeline. Therefore, this item will not be addressed in the POA. [leave this item in the POA, to allow others to see the discussion/conclusion]
o [There is potential for Chico to treat its wastewater for recycling. Need to address the potential for revenue sharing.]
- AGREED: Because the City's wastewater system operates as an "enterprise" fund, any income or cost resulting from water recycling will be incorporated into the City's connection fees and monthly user fees. This item can be stated in the POA as an item not included. [leave this item in the POA, to allow others to see the discussion/conclusion]
o [Include a requirement for producing an annual financial report.]
- AGREED: In general, wastewater costs and revenues will be captured in the annual budgets of both the Town and City. Also, the City will be provided the ability to audit the Town's financial records related to the collection of monthly treatment fees. Therefore, no separate annual financial report is needed.

11. O\&M of Facilities. The Town will construct the export pipeline and a termination structure at or near the Chico WPCP. The Town would own the export pipeline. The POA would need to address who is responsible for O\&M and future repairs/replacements of the export pipeline and termination structure at the Chico WPCP.
o AGREED: It is anticipated that the Town will own the entire export pipeline and will provide all operation and maintenance associated with it, with the exception of wastewater monitoring efforts, which are described in item 6 above.
o [lt may work best to develop a separate "O\&M Agreement" to cover all of the various items related to operating costs.]

- AGREED: The City and Town intend to develop an inter-municipal agreement based on these Principals of Agreement. In the future, if O\&M items arise and warrant it, the two parties may wish to develop an O\&M Agreement. For example, one item that might arise is that the Town might wish to contract with the City to provide some O\&M services on the export pipeline, given that the City has on-staff expertise in this area.

12. Term and Termination of the Agreement. [Need to develop the term and termination of the agreement. The term of the agreement should match any financing requirements and/or the lifespan of the infrastructure. Also need to address how to handle disaster scenarios. This item might need input from Town and City attorneys, in order to draft appropriate POA language.]
13. "Revisit" Clause. [Need to develop a statement that allows for an evolution of the roles and responsibilities established in this document. For example, in the future, if the Town grows to a size that it makes sense for it to create and run its own pretreatment program, the document should allow for that to happen. This item will need input from Town and City attorneys.]
[ADDITIONAL ITEMS 14, 15, and 16 came from "Crafting Interlocal Water and Wastewater Agreements," UNC Environmental Finance Center, 2019. Text in quotes is taken from that document]
14. Service Area Boundary. "When two or more service providers agree to buy or sell water services to one another, it is extremely important to remove as much ambiguity as possible about current and future service areas." Identify the service area boundary as the Town of Paradise town limits. The Sphere of Influence and Town/City limits may change...
o AGREED: This item relates to the potential for the two entities to have adjacent or overlapping service area boundaries. The Town of Paradise and the City of Chico will not overlap with respect to providing wastewater services. In the future, spheres of influence could overlap (although this is extremely unlikely). If that situation arises, it should be addressed at that time. [Ask the attorneys for their input, including if language should be included on this subject in the intermunicipal agreement.]
15. Notice Requirements for Fee Changes. "The contract should also include language to cover notice requirements or any other processes related to when and how rates will be changed. If there will be a process for modifying rates in the future, the parties should contemplate what shall constitute reasons to justify modification."
o AGREED: In California, formal notification to citizens regarding fee increases is covered by Prop 218. If the City is considering a fee update, City staff will inform the Town Council of an upcoming fee adjustment process.
16. Excessive Inflow and Infiltration. "Inflow and infiltration (I\&I) can be a big problem for wastewater interlocal agreements. If possible, partners should consider how to contract in language that will address how I\&I should be handled."
o AGREED: Because the Town's collection system and export pipeline will be entirely new, the initial amount of I\&I should be very low. Over time, it is possible I\&I will increase. The Town of Paradise will monitor its wet weather flows each year and assess the level of I\&I it is experiencing. If excessive I\&I is seen, the Town will complete such corrective measures to eliminate excessive I\&I as are reasonably demonstrated to be cost effective by studies conducted and funded by the Town. [Perhaps move this item up to Section 11--O\&M of Facilities]
17. Resolving Conflicts or Disagreements. ["Regardless of how carefully an interlocal agreement may be contracted, there can still be conflict or disagreement, particularly when unanticipated needs or challenges arise. Parties to an agreement should anticipate the need to potentially negotiate at some point during the life of the agreement, and should build in language that lays out what process should be used." This item will need input from Town and City attorneys.]
o [Note from Staff: The City of Folsom/SRCSD contract has extensive sample language for this item, which the attorneys can use if they wish to.]

## City of Chico, Code Section 15.40.285

The City of Chico has a provision in its municipal code, Section 15.40.285—Regulation of Waste Received from Other Jurisdictions, that specifically addresses handling wastewater from outside the city's sanitary sewer system. Here is the code section in its entirety:

### 15.40.285 Regulation of Waste Received from Other Jurisdictions

If another municipality or user located within another municipality contributes wastewater to the city's sanitary sewer system, the director shall enter into an inter-municipal agreement with the contributing municipality. Prior to entering into an agreement, the director shall request the following information from the contributing municipality:

1. A description of the quality and volume of wastewater discharged to the city's sanitary sewer system by the contributing municipality;
2. An inventory of all users located within the contributing municipality that are discharging to the city's sanitary sewer system; and
3. Such other information as the director may deem necessary.

An inter-municipal agreement shall contain the following conditions:

1. A requirement for the contributing municipality to adopt a sewer use ordinance which is at least as stringent as this ordinance and local limits, including required baseline monitoring reports which are at least as stringent as those set out in section 15.40.024. The requirement shall specify that such ordinance and limits must be revised as necessary to reflect changes made to the city's ordinance or local limits;
2. A requirement for the contributing municipality to submit a revised user inventory on at least an annual basis;
3. A provision specifying which pretreatment implementation activities, including wastewater discharge permit issuance, inspection and sampling, enforcement, will be conducted by the contributing municipality; which of these activities will be conducted by the director; and which of these activities will be conducted jointly by the contributing municipality and the director;
4. A requirement for the contributing municipality to provide the director with access to all information that the contributing municipality obtains as part of its pretreatment activities;
5. Limits on the nature, quality, and volume of the contributing municipality's wastewater at the point where it discharges to the city's sanitary sewer system;
6. Requirements for monitoring the contributing municipality's discharge;
7. A provision ensuring the director access to the facilities of the users located within the contributing municipality's jurisdictional boundaries for the purpose of inspection, sampling, and other duties deemed necessary by the director; and
8. A provision specifying the remedies available for breach of the terms of the inter-municipal agreement.

## Exhibit 2 - City of Chico Sewer Use Ordinance

## ARTICLE II. DISCHARGE RESTRICTIONS

### 15.40.020 General prohibitions.

No user shall introduce or cause to be introduced into the city's sanitary sewer system any pollutant or wastewater which causes pass through or interference. These general prohibitions apply to all users of the city's sanitary sewer system whether or not they are subject to categorical pretreatment standards or any other federal, state, or local pretreatment standards or requirements.
(Ord. 2481 §1 (part))

### 15.40.021 Specific prohibitions.

No user shall introduce or cause to be introduced into the city's sanitary sewer system any of the following pollutants, substances, or wastewater:

1. Pollutants which create a fire or explosive hazard in the city's sanitary sewer system with a closed cup flashpoint of less than $140^{\circ}$ degrees Fahrenheit ( 60 degrees centigrade) using the test methods specified in 40 CFR Part 261.21. Prohibited materials include, but are not limited to, gasoline, kerosene, naphtha, benzene, toluene, xylene, ethers, alcohols, ketones, aldehydes, peroxides, chlorates, perchlorates, bromates, carbides, hydrides, or sulfides. Closed cup flashpoint values may be found in the National Institute of Occupational Safety and Health (NIOSH) Pocket Guide to Chemical Hazards;
2. Wastewater having a pH lower than 5.0 or more than 11.5 , or otherwise capable of causing damage or hazard to the city's sanitary sewer system;
3. Solids or viscous substances, including, but not limited to, fats, oils, or grease, garbage with particles greater than one-half inch in any dimension, animal guts or tissues, paunch manure, bones, hair, hides or fleshings, entrails, whole blood, feathers, ashes, cinders, sand, spent lime, stone or marble dust, metal, glass, straw, shavings, grass clippings, rags, spent grains, spent hops, wastepaper, wood, plastics, gas, tar, asphalt residues, residues from refining or processing of fuel or lubricating oil, mud, or glass grinding or polishing wastes, which may cause obstruction of flow in the sewer or other inference with the operation of the city's sanitary sewer system;
4. Pollutants including oxygen demanding pollutants (BOD, COD, etc.) released in a discharge at a flow rate and/or pollutant concentration which, either singly or by interaction with other pollutants, will cause interference to the city's sanitary sewer system;
5. Wastewater having a temperature greater than 140 degrees Fahrenheit ( 60 degrees centigrade), or which will inhibit biological activity in the water pollution control plant resulting in interference, but, in no case, wastewater which causes the temperature, at the introduction into the water pollution control plant which to exceeds 140 degrees Fahrenheit ( 60 degrees centigrade);
6. Petroleum oil, nonbiodegradable cutting oil, or products of mineral oil origin that will cause interference or pass through;
7. Pollutants which result in the presence of toxic gases, vapors or fumes within the city's sanitary sewer system in a quantity that may cause acute worker health and safety issues;
8. Trucked or hauled wastes, except at discharge points designated by the director;
9. Noxious or malodorous liquids, gases, or solids, which either singly or by interaction with other wastes, are sufficient to create a public nuisance or hazard to life, or are sufficient to prevent entry into the city's sanitary sewer system for maintenance and repair;
10. Wastewater that may cause a detrimental environmental impact or nuisance in the waters of the state or United States that is unacceptable to any public agency having regulatory jurisdiction over the city;
11. Wastewater which imparts color which cannot removed in the treatment process, such as, but not limited to, dye wastes and vegetable tanning solutions;
12. Wastewater causing two readings on an explosion hazard meter at the point of discharge into the city's sanitary sewer system (or at any point in the city's sanitary sewer system) of more than five (5) percent nor any single reading over ten (10) percent of the lower explosive limit (LEL) of the meter. Prohibited materials include, but are not limited to, gasoline, kerosene, naphtha, benzene, toluene, xylene, ethers, alcohols, ketones, aldehydes, peroxides, chlorates, perchlorates, bromates, carbides, hydrides, sulfides, and any other substances in any quantity or concentration that the city, state, or USEPA has notified the user are a fire hazard or a hazard to the city's sanitary sewer system;
13. Wastewater containing algaecides, fungicides, antibiotics, insecticides, strong oxidizing agents or strong reducing agents in such quantity or strength as to cause or contribute to violations of the city's NPDES permit discharge restrictions, interference with or upset of the city's sanitary sewer system, or personnel safety hazards;
14. Medical waste, except as specifically authorized by the director, in a wastewater discharge permit;

Wastewater requiring an excessive quantity of chlorine or other chemical compound used for disinfection purposes;

## Exhibit 2 - City of Chico Sewer Use Ordinance

16. Wastewater containing radioactive wastes or isotopes of such half-life or concentration as may exceed limits established by the director in compliance with any applicable state or federal regulations;
17. Wastewater that causes a hazard to human life or creates a public nuisance;
18. Wastewater containing toxic pollutants, gases, vapors, or fumes in sufficient quantity, which either singly or by interaction with other pollutants, may injure or interfere with any wastewater treatment process, cause acute worker health and safety problems, constitute a hazard to humans or animals, create a toxic effect in the receiving waters of the city's sanitary sewer system, result in exceedances of biosolids disposal restrictions, or exceed the limitation set forth in a pretreatment standard or requirement. A toxic pollutant shall include, but not be limited to, any pollutant identified pursuant to section 307(a) of the Act;
19. Stormwater, rainwater, groundwater, street drainage, subsurface drainage, yard drainage, and cooling water, including evaporative type air cooler discharge water and noncontact cooling water;
20. Wastewater containing sulfides in sufficient quantity or strength as to cause or contribute to corrosion in the city's sanitary sewer system or violations of the city's NPDES permit; or
21. Discharges which, if otherwise disposed of, would be a hazardous waste under 40 CFR Part 261.

Pollutants, substances, or wastewater prohibited by section 15.40 .021 of this chapter shall not be processed or stored in such a manner that they could be discharged into the city's sanitary sewer system.
(Ord. 2481 §1 (part))

### 15.40.022 National categorical pretreatment standards.

Users must comply with the categorical pretreatment standards found in 40 CFR Chapter I, Subchapter N, sections 405471, as amended.

Upon the promulgation of categorical pretreatment standards for a particular industrial subcategory, the categorical pretreatment standards, if more stringent than limitations imposed under this chapter for sources in that subcategory, shall immediately supersede the limitations imposed under this chapter. The director shall attempt to notify all known affected users of the applicable reporting requirements under 40 CFR Part 403.12, or other applicable pretreatment requirements. Provided, however, that in no case shall the failure of the director to notify a user constitute a defense to noncompliance with any such requirement, statute or regulations, or to noncompliance with the provisions of this chapter.

Modifications to the categorical pretreatment standards may occur under the following situations:

1. Where the city's sanitary sewer system achieves consistent removal of pollutants limited by pretreatment standards, the director may apply to the Administrator for modification of specific limits in the pretreatment standards. Upon approval from the Administrator, the director may modify pollutant discharge limits in the pretreatment standards if the requirements contained in 40 CFR Part 403.7 are fulfilled.
2. When the limits in a categorical pretreatment standard are expressed only in terms of either the mass or the concentration of a pollutant in wastewater, the director may impose equivalent concentration or mass limits in accordance with 40 CFR Part 403.6(c).
3. When wastewater subject to a categorical pretreatment standard is mixed with wastewater not regulated by the same standard, the director shall impose an alternate limit, using the combined wastestream formula in 40 CFR Part 403.6(e).
4. A user otherwise classified as a CIU may obtain a variance from a categorical pretreatment standard if the user can prove, pursuant to the procedural and substantive provisions in 40 CFR Part 403.13, that factors relating to its discharge are fundamentally different from the factors considered by USEPA when developing the categorical pretreatment standard.
5. A CIU may obtain a net gross adjustment to a categorical pretreatment standard in accordance with 40 CFR Part 403.15.
(Ord. 2481 §1 (part))

### 15.40.023 State pretreatment standards.

Users must comply with all applicable state pretreatment standards.
(Ord. 2481 §1 (part))
15.40.024 Local limits.

The director is authorized to establish local limits pursuant to 40 CFR Part 403.5(c). Local limits are established to protect against pass through and interference. No wastewater discharge shall exceed the local limits as determined by the director pursuant to section 15R.40.010 of this code.

The local limits apply at the point where wastewater is discharged into the city's sanitary sewer system. The director may impose mass limitations in addition to or in lieu of the concentration-based limitations above.
requirements of sections 15.40.020 and 15.40.021.
(Ord. 2481 §1 (part))

### 15.40.025 City's right of revision.

The city reserves the right to establish, by ordinance or wastewater discharge permit, more stringent standards or requirements on discharges to the city's sanitary sewer system, if deemed necessary to comply with the objectives of this chapter or the Act.
(Ord. 2481 §1 (part))

### 15.40.026 Excessive discharge/dilution.

No user shall increase the use of process water or in any way attempt to dilute a discharge as a partial or complete substitute for adequate treatment to achieve compliance with the discharge limitations contained in the pretreatment standards or requirement.

The director may impose mass limitations on users who are using dilution to meet applicable pretreatment standards or requirements, or in other cases when the imposition of mass limitations is appropriate.
(Ord. 2481 §1 (part))

## Exhibit 3-City of Chico Pretreatment of Wastewater Ordinance <br> ARTICLE III. PRETREATMENT OF WASTEWATER

### 15.40.027 Pretreatment facilities.

Users who are CIUs, SIUs, or who are required by the director to obtain an industrial wastewater discharge permit shall provide wastewater pretreatment as necessary to comply with this chapter and shall achieve compliance with all categorical pretreatment standards and pretreatment requirement, local limits, and the prohibitions of this chapter within the time limitations specified by USEPA, the state, or the director, whichever is more stringent. Any facilities necessary for compliance shall be provided, operated, and maintained at the user's expense. Detailed plans describing such facilities and operating procedures shall be submitted to the director for review, and shall be acceptable to the director before such facilities are constructed. The review of such plans and operating procedures shall in no way relieve the user from the responsibility of modifying such facilities as necessary to produce a discharge acceptable to the city under the provisions of this chapter. Subsequent changes in the pretreatment facilities or method of operation shall be reported to and acceptable to the director prior to the user's initiation of the changes.
(Ord. 2481 §1 (part))

### 15.40.030 Interceptors.

1. An interceptor shall be installed in a user's building sewer when in the opinion of the director it is necessary for the proper handling of wastewater containing grease or oil in excessive amounts, sand, grit or other harmful substances; except that such interceptors shall not be required for buildings used solely for residential purposes. Provided, however, that interceptors shall be constructed in any place or building having a capacity to serve group meals and in commercial and industrial cleaning facilities.

Where the director requires the installation of an interceptor by a user who is neither an SIU nor a CIU, the user shall also be required to obtain a pollution prevention permit. Typical users required to install an interceptor and obtain a pollution prevention permit include, but are not limited to, restaurants, cafes, lunch counters, cafeterias, bars and clubs; hotels, hospitals, sanitariums, factory or school kitchens, equipment repair shops, service stations, and other establishments where grease, oils, sand, or grit may be introduced into the city's sanitary sewer system in quantities that can obstruct the sewer or hinder wastewater treatment or private wastewater disposal.
2. All interceptors shall be of a type and capacity approved by the director and shall be so located as to be readily and easily accessible for cleaning and inspection. Interceptors shall be constructed of impervious materials capable of withstanding abrupt and extreme changes in temperature. They shall be of substantial construction, water-tight and equipped with easily removable covers which, when bolted in place, are gas- and water-tight. All interceptors shall be maintained by the user, at the user's expense, in continuously efficient operation at all times.
3. Each user shall regularly inspect, clean, and repair interceptors. Records of inspections, cleaning and repairs, and the costs associated with these actions shall be kept for a minimum of three (3) years and be made available for inspection by city personnel upon request. Debris from interceptors shall be disposed of through a licensed waste hauler. Waste disposal records, including receipts, shall be kept for a minimum of three (3) years and be made available for inspection by city personnel upon request.
4. All interceptors shall comply with the following standards:
a. Plans shall be submitted to and approval obtained from the director prior to the installation of any interceptor.
b. All drains from kitchen areas including pre-wash shall be connected to an interceptor. Toilets, lavatories and other sanitary fixtures shall not be connected to any interceptor.
c. All fixtures discharging into an interceptor shall be individually trapped and vented in a manner approved by the director.
d. Each interceptor shall be so installed and connected that it shall be at all times easily accessible for inspection, cleaning, and removal of the intercepted material.
e. Interceptors shall be maintained in efficient operating condition by periodic removal of the accumulated materials. No such collected material shall be introduced into any drainage piping, public or private, or discharged to the city's sanitary sewer system.
f. Each interceptor shall be constructed of durable materials satisfactory to the director and shall have a full-size gastight cover which can easily and readily be removed.
g. Interceptors required by this chapter shall not be installed until the type and/or model has been subjected to, and has fully complied with, tests acceptable to the director. Where existing conditions are found acceptable as determined by the director, such facilities as presently exist will be allowed to remain in use. Whenever it shall come to the attention of the director that any interceptor is no longer acceptable or does not comply with the provisions of this section, the director shall suspend or revoke such approval and require corrective measures.
(Ord. 2481 §1 (part))

### 15.40.120 Accidental spill and slug discharge control plans.

## Exhibit 3-City of Chico Pretreatment of Wastewater Ordinance

1. The director shall evaluate whether each SIU needs an accidental spill and slug control plan or other action to control slug discharges. The director may require any user develop, submit for approval, and implement such a plan or take other such action that may be necessary to control slug discharges. Alternatively, the director may develop such a plan for any such user. An accidental discharge/slug discharge control plan shall address, at a minimum, the following:
a. Description of discharge practices, including non-routine batch discharges;
b. Description of stored chemicals;
c. Procedures for immediately notifying the director of any accidental or slug discharge, as required by section 15.40.350; and
d. Procedures to prevent adverse impact from any accidental or slug discharge. Such procedures include, but are not limited to, inspection and maintenance of storage areas, handling and transfer of materials, loading and unloading operations, control of plant site runoff, worker training, building of containment structures and equipment, measures for containing toxic organic pollutants, including solvents, and/or measures and equipment for emergency response.
2. Each user required to have an accidental spill and slug discharge control plan shall provide protection from spills or accidental discharges of prohibited materials or other substances regulated by this chapter. Facilities to prevent accidental discharge of prohibited materials shall be provided and maintained at the user's own cost and expense. Detailed plans showing facilities and operating procedures to provide this protection shall be submitted to the director for review, and shall be approved by the director before construction of the facility.
3. Each user required to have an accidental spill and slug discharge control plan shall permanently post a notice on a bulletin board or other prominent place within the user's place of business advising employees whom to call in the event of spill, slug discharge or an accidental discharge. Users shall ensure that all employees who may cause or suffer such spills or slug discharges to occur are advised of the emergency notification procedures.
(Ord. 2481 §1 (part))

### 15.40.140 Maintenance of side sewers.

All users shall keep that portion of their side sewer in good repair, at their own expense, and shall be liable for any damages which may result from their failure to do so.
(Ord. 2481 §1 (part))


# Regionalization Planning Report for the Paradise Sewer Project <br> Prepared under the Cooperative Funding Agreement between the City of Chico and the Town of Paradise 

FINAL | May 2022

Exhibit 4 - Regionalization Planning Report

City of Chico

# Regionalization Planning Report for the Paradise Sewer Project 

Prepared under the Cooperative Funding Agreement between the City of Chico and the Town of Paradise

FINAL| May 2022


Exhibit 4 - Regionalization Planning Report

## Contents

Chapter 1 - Executive Summary ..... 1-1
1.1 Introduction ..... 1-1
1.2 Background ..... 1-1
1.2.1 Previous Planning Effort ..... 1-1
1.2.2 Facility Improvement Categories ..... 1-2
1.3 Summary of Capacity-D riven Facility Needs ..... 1-2
1.4 Summary of Regulatory-Driven Facility Needs ..... 1-3
1.5 Summary of Condition-Driven Facility Needs ..... 1-4
1.6 Summary of Findings - Capital Needs ..... 1-4
1.7 Connection Payment Calculation ..... 1-6
Chapter 2 - Flows and Loads Analysis ..... 2-1
2.1 Basis of Evaluation ..... 2-1
2.2 Background ..... 2-1
2.2.1 Previous WPCP Facility Planning ..... 2-1
2.2.2 WPCP Service Area ..... 2-2
2.3 Historical Population, Flows, and Loads ..... 2-7
2.3.1 Historical Population ..... 2-7
2.3.2 Historical Flows ..... 2-11
2.3.3 Historical Wastewater Loads ..... 2-15
2.4 Projected Population, Flows, and Loads ..... 2-20
2.4.1 Projected Population ..... 2-20
2.4.2 Projected Flows ..... 2-25
2.4.3 Projected Loads ..... 2-31
2.5 Summary of Projections ..... 2-31
Chapter 3 - Plant Capacity Evaluation ..... 3-1
3.1 Basis of Evaluation ..... 3-1
3.1.1 Flow \& Load Basis ..... 3-1
3.1.2 Unit Process Availability Criteria ..... 3-2
3.2 Background ..... 3-2
3.2.1 Previous WPCP Facility Planning ..... 3-2
3.2.2 WPCP Description ..... 3-2
3.3 Peak Hydraulic Capacity Evaluation ..... 3-15
3.3.1 Headworks ..... 3-15
3.3.2 Primary Treatment ..... 3-15
3.3.3 Primary Effluent Pumping ..... 3-15
3.3.4 Secondary Treatment and Disinfection ..... 3-16
3.3.5 Peak Hydraulic Capacity Analysis Summary ..... 3-16
3.4 Treatment Process Capacity Evaluation ..... 3-17
3.4.1 Primary Treatment Facilities ..... 3-17
3.4.2 Secondary Treatment Facilities ..... 3-18
3.4.3 Disinfection ..... 3-21
3.4.4 Solids Handling ..... 3-22
3.5 Summary of WPCP Capacity Limitations ..... 3-24
Chapter 4 - Capacity-Driven Facility Needs ..... 4-1
4.1 Approach ..... 4-1
4.2 Headworks ..... 4-1
4.3 Primary Clarification ..... 4-1
4.4 Primary Effluent Pumping ..... 4-5
4.5 Secondary Treatment Facilities ..... 4-5
4.5.1 Near-Term Improvements ..... 4-6
4.5.2 Options for Secondary Treatment Expansion ..... 4-9
4.6 Disinfection and Dechlorination ..... 4-22
4.6.1 Solids Handling ..... 4-25
4.7 Summary of Capacity-Driven Facility Needs ..... 4-25
Chapter 5 - Regulatory-Driven Facility Needs ..... 5-1
5.1 Existing Discharge Requirements ..... 5-1
5.1.1 Status of NPDES Permit Order ..... 5-3
5.2 Previous Projection of Regulatory-Driven Facility Needs at the WPCP ..... 5-3
5.3 Revised Schedule and Sizing Criteria ..... 5-5
5.4 Updated Projection of Regulatory-Driven Facility Needs at the WPCP ..... 5-6
5.4.1 Required Improvements for Land Discharge ..... 5-6
5.4.2 Tertiary Treatment ..... 5-13
5.4.3 Requirements for DEHP, Lead, and Zinc Compliance ..... 5-19
5.4.4 Altern ative Disinfection ..... 5-19
Chapter 6 - Condition-Driven Facility Needs ..... 6-1
6.1 Summary of Near-Term Condition Driven Needs ..... 6-1
6.2 Summary of Long-Term Condition Driven Needs ..... 6-3
6.3 Options for Reduced or Deferred Capital Expenditure ..... 6-4
6.4 Development of Condition-Driven Project Packages ..... 6-4
6.5 Summary of Condition-Driven Project Costs ..... 6-4
Chapter 7 - Facility Improvement Recommendations ..... 7-1
7.1 Summary of Capacity-Driven Projects ..... 7-1
7.1.1 Limitations of Capacity Analysis ..... 7-2
7.2 Summary of Regulatory-Driven Projects ..... 7-3
7.2.1 Limitations of Regulatory Analysis ..... 7-4
7.3 Summary of Condition-Driven Projects ..... 7-4
7.3.1 Limitations of Condition Analysis ..... 7-7
7.4 Capital Improvement Project Summary ..... 7-7
Appendices
Appendix A Cost Estimates
Appendix B Daily Data
Tables
Table 1.1 Summary of Capacity-Driven Facility Needs ..... 1-2
Table 1.2 Summary of Recommended Project and Project Costs ..... 1-4
Table 1.3 Summary of Recommended Project and Project Costs ..... 1-4
Table 1.4 Summary of Recommended Project and Project Costs ..... 1-5
Table 2.1 Historical Population Estimates ..... 2-7
Table 2.2 Historical College Student Total and Connected Population Estimates ..... 2-9
Table 2.3 Estimated Connected Population vs College Breaks ..... 2-13
Table 2.4 Summary of Annual Growth Rate Projections ..... 2-21
Table 2.5 Connected Population Growth Projections ..... 2-22
Table 2.6 Connected Chico and Paradise Residents ..... 2-24
Table 2.7 Summary of Historical and Projected Population, Flows, and Loads ..... 2-35

## Table 3.1 Projected WPCP Flows \& Loads 3-2

Table 3.2 Historical WPCP Capacity Ratings and Flow Split 3-3
Table 3.3 Hydraulic Capacity Summary for WPCP Major Processes 3-16
$\begin{array}{lll}\text { Table 3.4 Modeling Scenarios } & \text { 3-17 }\end{array}$
Table 3.5 Summary of Capacity-Driven Facility Needs 3-25
Table 4.1 Secondary Treatment Facility Improvements 4-6
Table 4.2 Option 1 Component Costs 4-13
Table 4.3 Option 2 Component Costs 4-17
Table 4.4 Option 3 Component Costs 4-21
Table 4.5 Disinfection System Improvement Costs 4-25
Table 4.6 Summary of Capacity-Driven Facility Needs 4-26
$\begin{array}{ll}\text { Table 5.1 Current Effluent Limitations for Effluent Discharge to the Sacramento } \\ & \text { River }\end{array}$
Table 5.2 Future Effluent Limitations for Land Discharge 5-3
Table 5.3 Summary of Probable Future Effluent Limitations 5-4
$\begin{array}{lll}\text { Table 5.4 Cloth Disk Filter Design Criteria } & \text { 5-15 }\end{array}$
Table 5.5 UV Facility Design Criteria $\quad$ 5-21
Table 6.1 Summary of Near-Term Plant 2 Condition-Driven Needs 6-2
Table 6.2 Summary of Long-Term Plant 2 Condition Needs 6-3
Table 7.1 Secondary Treatment Facility Expansion Options 7-1
Table 7.2 Summary of Capacity-Driven Facility Needs 7-2
$\begin{array}{lll}\text { Table } 7.3 & \text { Summary of Regulatory-D riven Facility Needs 7-3 }\end{array}$
Table 7.4 Summary of Near-Term Condition-Driven Facility Needs 7-5
Table 7.5 Summary of Long-Term Condition-Driven Facility Needs 7-6
Table 7.6 Summary of Recommended Project and Project Cost 7-8

## Figures

Figure 2.1 City of Chico Sphere of Influence \& Planning Area 2-3
$\begin{array}{lll}\text { Figure 2.2 Town of Paradise Sewer Service Area and Proposed Export Pipeline } & 2-4\end{array}$
Figure 2.3 WPCP Service Area Population Details 2-5
Figure 2.4 Historical ADWF and ADWF Per Capita Range 2-12
Figure 2.5 Historical ADWF vs. College Breaks and Estimated ADWF per Capita 2-13
$\begin{array}{lll}\text { Figure 2.6 Historical Flow Param eters and Peaking Factors } & \text { 2-14 }\end{array}$
Figure 2.7 Historical Sierra Nevada Brewery Loads ..... 2-16
Figure 2.8 Historical TSS Loads ..... 2-17
Figure 2.9 Historical BOD Loads ..... 2-17
Figure 2.10 Historical NH3 Loads ..... 2-18
Figure 2.11 Historical Max Month Loads ..... 2-19
Figure 2.12 Historical Max Month Load Peaking Factors ..... 2-20
Figure 2.13 Historical Population Growth ..... 2-21
Figure 2.14 Projected Flows ..... 2-27
Figure 2.15 Projected ADWF ..... 2-29
Figure 2.16 Projected Loads ..... 2-33
Figure 3.1 WPCP Site Map with Facility Pond Locations ..... 3-5
Figure 3.2 Existing WPCP Treatment Works and Facility Buildings ..... 3-7
Figure 3.3 Existing WPCP Hydraulic Profile ..... 3-9
Figure 3.4 Existing Liquids Flow Schematic for WPCP ..... 3-11
Figure $3.5 \quad$ Existing Solids Flow Schematic for WPCP-This Page Intentionally Left Blank ..... 3-13
Figure 4.1 Primary Clarifier \#4 ..... 4-3
Figure 4.2 Fourth Secondary Clarifier ..... 4-7
Figure 4.3 Secondary Expansion (Option 1) ..... 4-11
Figure 4.4 Secondary Expansion (Option 2) ..... 4-15
Figure 4.5 Secondary Expansion (Option 3) ..... 4-19
Figure 4.6 Chlorine Contact Basin ..... 4-23
Figure 5.1 Emergency Effluent Bypass, Storage, and Return Improvements ..... 5-7
Figure 5.2 Process Conversion from Nitrifying Activated Sludge to Modified Ludzack-Ettinger ..... 5-11
Figure 5.3 Configuration of Basic Disk Filter ..... 5-14
Figure 5.4 Potential Layout for Disk Filter Facilities at WPCP ..... 5-17
Figure 5.5 Potential Layout for UV Disinfection Facilities at the WPCP ..... 5-23
Figure 7.1 Projected Capital Investment by Spending Category ..... 7-10
Figure 7.2 Total Annual Capital Spending through Planning Horizon ..... 7-11

Exhibit 4 - Regionalization Planning Report

## Abbreviations

| AA | average annual |
| :---: | :---: |
| AAF | Average Annual Flow |
| AAFPF | AAF Peaking Factor |
| ADWF | average dry weather flow |
| BOD | biochemical oxygen demand |
| $\mathrm{BOD}_{5}$ | biochemical oxygen demand |
| CCBs | chlorine contact basins |
| City | City of Chico |
| CSU | California State University |
| CT | chlorine contact |
| DAFT | dissolved air flotation thickener |
| DBP | disinfection byproducts |
| DEHP | Di-2-ethylhexyl phthalate |
| EPA | Environmental Protection Agency |
| gpcd | gallons per capita day |
| $\mathrm{gpd} / \mathrm{ft}^{2}$ | gallons per day per square foot |
| gph | gallons per hour |
| gpm | gallons per minute |
| hp | horsepower |
| HRT | hydraulic residence time |
| lb/day | pounds per day |
| MG | million gallons |
| mg/L | milligrams per liter |
| mgd | million gallons per day |
| mL | milliliter |
| ML | mixed liquor |
| MLE | Modified-Ludzack Ettinger |
| MLR | mixed liquor recycle |
| MM | maximum monthly |
| MMF | maximum month flow |
| MMFPF | maximum month flow peaking factor |
| MPN | most probable number |
| $\mathrm{NH}_{3}$ | ammonia |
| NPDES | National Pollutant Discharge Elimination System |
| Paradise | Town of Paradise |


| PF | peak flow |
| :--- | :--- |
| PFPF | peak flow peaking factor |
| psig | pounds per square inch gauge |
| PSRP | Process to Significantly Reduce Pathogens |
| RAS | return activated sludge |
| RWQCB | Regional Water Quality Control Board |
| SBS | sodium bisulfite solution |
| SCADA | supervisory control and data acquisition |
| scfm | standard cubic feet per minute |
| SHS | sodium hypochlorite solution |
| SIU | Sierra Nevada Brewery |
| SNB | sphere of influence |
| SOI | Sewer Regional Project Advisory Committee |
| SRPAC | sludge volume index |
| SVI | State Water Resources Control Board |
| SWRCB | total suspended solids |
| TSS | ultraviolet |
| UV | ultraviolet transmittance |
| UVT | waste activated sludge |
| WAS | waste discharge requirement |
| WDR | Water Pollution Control Plant |
| WPC |  |

## Chapter 1

## EXECUTIVE SUMMARY

### 1.1 Introduction

The Town of Paradise (Paradise) has studied options for treatment and disposal of the wastewater produced within the Town's service boundary for many years, limited by high groundwater, lack of available land, and poor soils. The absence of a viable wastewater solution has restricted residential and commercial growth within the Town's sewer service area and has threatened underlying groundwater supplies due to imminent failure of aging septic systems.

The City of Chico (City) provides wastewater collection, treatment, and disposal service for residents within the City's service area. The City population grew by almost 20 percent in 2019 due to Camp Fire ${ }^{1}$ victim relocations, but the City did not see a proportional revenue growth for increased wastewater flows due to limited housing supplies (more people were living in shared houses).

The Paradise Sewer Project is a wastewater regionalization project that creates a solution for Paradise's wastewater issues, in turn relieving some of the pressure that the City has remained under since the Camp Fire. The purpose of this report is to quantify the impact that the Paradise sewer connection would have on the City's WPCP, define the facility needs for increased treatment associated with the Paradise connection and the City's continued growth, and create a basis for negotiation of a connection payment between the City and Paradise.

### 1.2 Background

### 1.2.1 Previous Planning Effort

The City initiated a WPCP planning effort in 2018 to evaluate facility needs related to condition, capacity, and regulatory requirements (near- and longer-term) as a basis for adjustments to the City's sewer service rates. During completion of this effort, the City experienced several planning changes, including significant impacts related to the 2018 Camp Fire and the 2019 Coronavirus Pandemic. Planning efforts were eventually summarized in the WPCP Strategic Planning Report ${ }^{2}$ in February 2021 as a means for jump starting the sewer service rate adjustments currently underway, but the findings of that report had limited use for this effort for several reasons:

- The baseline population used for planning was no longer accurate.
- The population growth projection assumption was inadequate based on recent observations by the City and an increase in planned development within the City's sphere of influence (SOI).

[^1]- Future sewer flows from the Town of Paradise had not been accounted for.
- Increased flows now expected from California State University, Chico which had not been accounted for.
- The planning period for the WPCP Strategic Planning Report ${ }^{3}$ effort only extended to 2040, while the planning period for the Paradise Sewer Project ended in 2057.

This report provides updated planning results that incorporate these changes, providing an updated basis for planning for the City and Paradise.

### 1.2.2 Facility Improvement Categories

There are three main categories related to facility improvements referenced within this planning document, each with differing project triggers and associated timelines. These project categories include:

- Capacity-Driven Facility Needs: Projects in this category include improvements required to extend both treatment capacity and hydraulic capacity to account for the total City and Paradise influent loading (discussed in Chapter 4).
- Regulatory-Driven Facility Needs: Projects in this category are predicated on potential water quality regulation requirements anticipated in future NPDES permit renewals (discussed in Chapter 5).
- Condition-Driven Facility Needs: Condition-driven facility needs were determined through completion of a detailed multidiscipline condition assessment conducted April 25 to 26, 2018 (summarized in Chapter 6).

The previous planning effort also included a detailed "strategic planning" effort based on the City's goals for sustainability and long-term resilience. Those findings are not adjusted in this report but should be revisited as the City gets closer to implementation of a chosen alternative.

### 1.3 Summary of Capacity-Driven Facility Needs

Table 1.1 includes a summary of recommended projects based on anticipated capacity-driven facility needs through 2057, along with predicted timelines for implementation of each and planning level construction and project cost estimates (presented in December 2021 dollars).

Table 1.1 Summary of Capacity-Driven Facility Needs

| Projected <br> Timeline for <br> Implementation | Project Description | Estimated <br> Construction Cost ${ }^{(1)(2)}$ | Estimated <br> Project Cost ${ }^{(1)(3)}$ |
| :---: | :--- | :---: | :---: |
| 2028 | Secondary Clarifier \#6 <br> $\left({ }^{(4)}\right.$ <br> (fourth clarifier in Plant 2) | $\$ 8,000,000$ | $\$ 10,700,000$ |
| 2032 | Supplemental Carbon Project | $\$ 300,000$ | $\$ 400,000$ |
| 2033 | Chlorine Contact Basin | $\$ 4,100,000$ | $\$ 5,100,000$ |
| 2033 | Chemical Storage and Feed <br> Facility Improvements <br> (SHS and SBS) | $\$ 1,300,000$ | $\$ 1,600,000$ |

[^2]| Projected <br> Timeline for Implementation | Project Description | Estimated Construction Cost ${ }^{(1)(2)}$ | Estimated Project Cost ${ }^{(1)(3)}$ |
| :---: | :---: | :---: | :---: |
| 2036 | Southern Pond Improvements for Secondary Expansion | \$700,000 | \$900,000 |
| 2036 | Secondary Clarifier \#7 ${ }^{(5)}$ (fifth clarifier in Plant 2) | \$10,000,000 | \$13,400,000 |
| 2036 | RAS/WAS Pump Station and Electrical Building ${ }^{(6)}$ | \$1,300,000 | \$1,600,000 |
| 2038 | Parallel Force Main Improvements | \$800,000 | \$1,100,000 |
| 2039 | Secondary Clarifier \#8 ${ }^{(5)}$ (sixth clarifier in Plant 2) | \$10,000,000 | \$13,400,000 |
| 2044 | Aeration Tank \#5 ${ }^{(7)}$ | \$11,700,000 | \$15,600,000 |
| 2044 | Blower and Electrical Building ${ }^{(6)}$ | \$5,000,000 | \$6,300,000 |
| 2044 | Standby Generator | \$1,200,000 | \$1,500,000 |
| 2045 | Primary Clarifier \#4 | \$3,700,000 | \$5,000,000 |
| 2053 | Aeration Tank \#6 ${ }^{(7)}$ | \$11,700,000 | \$15,600,000 |
| 2054 | Primary Effluent Lift Station Improvements | \$1,700,000 | \$2,100,000 |
| 2054 | Bar Screen \#3 | \$500,000 | \$600,000 |
|  | Total Required Capital Investment | \$72,000,000 | \$94,900,000 |

Notes:
(1) Costs are in December 2021 dollars based on ENR-CCICCI of 12482.
(2) Includes estimating contingency of $40 \%$ applied to total direct cost, general conditions and contractor overhead and profit contingencies at $18 \%$ of total direct cost (each), and local sales tax of $7.25 \%$ applied to half of the total direct cost.
(3) Includes project cost factor of $35 \%$ for legal, administration, permitting, design, and engineering services during construction.
(4) 100 -foot diameter secondary clarifier.
(5) 125 -foot diameter secondary clarifier.
(6) Based on Secondary Treatment Expansion Option 3 layout (Chapter 4).
(7) With denitrification improvements (MLE).

### 1.4 Summary of Regulatory-Driven Facility Needs

Table 1.2 includes a summary of recommended projects based on reasonably anticipated regulatory-driven facility needs through 2057, along with predicted timelines for implementation of each, and planning level project cost estimates (presented in December 2021 dollars).

Table 1.2 Summary of Recommended Project and Project Costs

| Projected <br> Timeline for Implementation | Project Description | Estimated Construction Cost ${ }^{(1) 2)}$ | Estimated Project Cost ${ }^{(1)(3)}$ |
| :---: | :---: | :---: | :---: |
| 2027 | Emergency Effluent Bypass, Storage, and Return Improvements (NE Pond) ${ }^{(4)}$ | \$7,050,000 | \$8,460,000 |
| 2032 | Modified MLE process upgrades ${ }^{(5)}$ | \$3,620,000 | \$4,350,000 |
| 2042 | Tertiary Filtration Upgrades ${ }^{(6)}$ | \$16,830,000 | \$22,710,000 |
| 2047 | Alternate Disinfection ${ }^{(7)}$ | \$30,200,000 | \$40,800,000 |
|  | Total Required Capital Investment | \$57,700,000 | \$76,320,000 |
| Notes: |  |  |  |
| (1) Costs are in Decen | ber 2021 dollars based on ENR-CCI CCI of 12482. |  |  |
| (2) Includes estimatin profit contingenci | contingency of $40 \%$ applied to total direct cost, genera at $18 \%$ of total direct cost (each), and local sales tax of | onditions and contr $25 \%$ applied to half | or overhead and the total direct cost. |
| (3) Includes project construction. | st factor of $35 \%$ for legal, administration, permitting, de | n, and engineering | vices during |
| (4) Includes pipeline improvements to | etween outfall box and Northeast Pond, a pump station deepen the pond for 25 MG of storage. | pump back to Hea | orks, and civil |
|  | ents to existing aeration tanks in Plant 2. |  |  |
| (6) Assumes cloth di | filtration, sized for peak flow at 39.6 mgd . |  |  |
| (7) Assume UV disinf | ction, sized for peak flow of 39.6 mgd . |  |  |

### 1.5 Summary of Condition-Driven Facility Needs

Table 1.3 includes a summary of total costs for near-term and long-term projects based on observed condition-driven needs at the facility through 2040 (presented in December 2021 dollars). Refer to Chapter 6 for additional details.

Table1.3 Summary of Recommended Project and Project Costs

| Projected Timeline <br> for Implementation | Project Description ${ }^{(1)}$ | Total Estimated <br> Project Cost |
| :---: | :---: | :---: |
| $<5$ years | Near-term condition-driven projects | $\$ 10,580,000$ |
| $2025-2039$ | Long-term condition-driven projects | $\$ 34,060,000$ |
|  | Total Required Capital Investment | $\$ 44,640,000$ |

## Notes:

(1) Refer to Chapter 6 for additional detail.
(2) Costs are in December 2021 dollars based on ENR-CCI CCI of 12482.

### 1.6 Summary of Findings - Capital Needs

An assessment of the hydraulic and treatment capacity of existing facilities at the WPCP indicates that significant improvements will be required to accommodate projected increases in wastewater flow and loading over the planning horizon. Table 1.4 includes a summary of recommended projects to address capacity short-comings, along with condition-driven and regulatory-driven facility needs identified for the WPCP.

Table 1.4 Summary of Recommended Project and Project Costs

|  | Capacity Improvements | Project Driver | Estimated Project Cost ${ }^{(1)}$ |
| :---: | :---: | :---: | :---: |
| 2021 | Aeration and Primary Treatment Upgrades Recommended by $2023^{(2)}$ | Condition | \$1,870,000 |
| 2022 | Disinfection, Chemical Building, Solids Thickening and Dewatering, Plant Power Systems, and Other Plant Systems Upgrades Recommended by 2023 ${ }^{(2)}$ | Condition | \$2,670,000 |
| 2023 | Solids Digestion Upgrades Recommended by 2023 ${ }^{(2)}$ | Condition | \$2,370,000 |
| 2025 | Primary Treatment Upgrades Recommended by 2025 ${ }^{(2)}$ | Condition | \$3,680,000 |
| 2025 | Recycled Water Feasibility Study | Strategic | \$530,000 |
| 2027 | Emergency Effluent Bypass, Storage, and Return Improvements | Regulatory | \$8,460,000 |
| 2027 | Condition Driven Upgrades Recommended in 2027 ${ }^{(2)}$ | Condition | \$7,640,000 |
| 2028 | Secondary Clarifier \#6 ${ }^{(3)}$ (fourth clarifier in Plant 2) | Capacity | \$10,700,000 |
| 2028 | Condition Driven Upgrades Recommended in 2028 ${ }^{(2)}$ | Condition | \$3,240,000 |
| 2029 | Condition Driven Upgrades Recommended in 2029 ${ }^{(2)}$ | Condition | \$5,390,000 |
| 2032 | Modified MLE process upgrades | Regulatory | \$4,350,000 |
| 2033 | Condition Driven Upgrades Recommended in 2033 ${ }^{(2)}$ | Condition | \$3,520,000 |
| 2032 | Supplemental Carbon Project | Capacity | \$400,000 |
| 2033 | Chlorine Contact Basin | Capacity | \$5,100,000 |
| 2033 | Chemical Storage and Feed Facility Improvements (SHS and SBS) | Capacity | \$1,600,000 |
| 2036 | Southern Pond Improvements for Secondary Expansion | Capacity | \$900,000 |
| 2036 | Secondary Clarifier \#7 ${ }^{(4)}$ (fifth clarifier in Plant 2) | Capacity | \$13,400,000 |
| 2036 | RAS/WAS Pump Station and Electrical Building ${ }^{(5)}$ | Capacity | \$1,600,000 |
| 2038 | Parallel Primary Effluent Force Main Improvements | Capacity | \$1,100,000 |
| 2039 | Secondary Clarifier \#8 ${ }^{(4)}$ <br> (sixth clarifier in Plant 2) | Capacity | \$13,400,000 |


| Projected <br> Timeline for Implementation | Capacity Improvements | Project Driver | Estimated Project Cost ${ }^{(1)}$ |
| :---: | :---: | :---: | :---: |
| 2039 | Condition Driven Upgrades Recommended in 2039 ${ }^{(2)}$ | Condition | \$10,460,000 |
| 2040 | Anaerobic Digester $3^{(2)}$ | Condition | \$3,800,000 |
| 2042 | Tertiary filtration ${ }^{(6)}$ | Regulatory | \$22,710,000 |
| 2044 | Aeration Tank \#5 ${ }^{(7)}$ | Capacity | \$15,600,000 |
| 2044 | Blower and Electrical Building ${ }^{(5)}$ | Capacity | \$6,300,000 |
| 2044 | Standby Generator | Capacity | \$1,500,000 |
| 2045 | Primary Clarifier \#4 | Capacity | \$5,000,000 |
| 2047 | Alternate Disinfection ${ }^{(6)}$ | Regulatory | \$40,800,000 |
| 2053 | Aeration Tank \#6 ${ }^{(7)}$ | Capacity | \$15,600,000 |
| 2054 | Primary Effluent Lift Station Improvements | Capacity | \$2,100,000 |
| 2054 | Bar Screen \#3 | Capacity | \$600,000 |
|  | Total Required Capital Investment |  | \$216,360,000 |

Notes:
(1) Costs are in December 2021 dollars based on ENR-CCI CCI of 12482.
(2) Refer to Chapter 6 for condition-driven project specific details.
(3) 100-foot diameter secondary clarifier.
(4) 125 -foot diameter secondary clarifier.
(5) Based on Secondary Treatment Expansion Option 3 layout (Chapter 4).
(6) Sized for peak flow of 39 mgd .
(7) With denitrification improvements (MLE).

### 1.7 Connection Payment Calculation

Various options for the calculation of a connection payment between Paradise and the City were evaluated by a working group that included team members from both agencies. The following three connection payment calculation options were presented for SRPAC consideration in January 2022:

1. Option 1: The ratio of total projected Paradise sewer flow $(0.464 \mathrm{mgd})$ to the buildout flow projected for the WPCP ( 15.8 mgd ) applied to each of the following (additive for total connection payment):
a. The calculated capacity-driven project cost.
b. The calculated condition driven project cost.
c. The estimated value of the existing WPCP Plant 2 facilities ${ }^{4}$.
2. Option 2: The calculated capacity-driven costs at the ratio of total projected Paradise sewer flow ( 0.464 mgal ) to the added flow to build-out ( 7.4 mgd ), plus the calculated condition-driven project costs at the ratio of the total projected Paradise sewer flow ( 0.464 mgd ) to the current WPCP capacity ( 8.4 mgd ).

[^3]3. Option 3: The calculated capacity-driven costs applied to the ratio of total projected Paradise sewer flow ( 0.464 mgd ) to the added flow to build-out ( 7.4 mgd ), plus the estimated value of the existing WPCP Plant 2 facilities applied to the ratio of the total projected Paradise sewer flow ( 0.464 mgd ) to the current WPCP capacity ( 8.4 mgd ).

In each case, the calculated costs were escalated from the December 2021 estimates to December 2026 projections, matching the planned timeline for sewer connection.

The third option was presented to the SRPAC in March 2022 as the recommended calculation methodology for the connection payment from Paradise to the City, with a draft total payment estimated at $\$ 14.9$ million (in December 2026 dollars). This methodology (and estimated connection payment value) was recorded in the draft Principles of Agreement, which is currently in final negotiation between Paradise and the City.

## Exhibit 4 - Regionalization Planning Report

-This Page Intentionally Left Blank-

## Chapter 2

## FLOWS AND LOADS ANALYSIS

This Chapter presents an evaluation of historical wastewater flow and biochemical oxygen demand (BOD), total suspended solids (TSS), and ammonia loads entering the City of Chico's WPCP, and projections of future flow and load demands for the facility. Historical flow and loads are used to establish a baseline for flow and load projections used for planning of future facility needs.

### 2.1 Basis of Evaluation

The flow and load projections developed herein are based on an analysis of historical data reported during the period from May 2009 through May 2021. Historical flow and load data were compiled from WPCP operational observations and laboratory measurements (Appendix B). Other sources of data and information are cited throughout this Chapter.

These data were analyzed to develop baseline per-capita values for the average dry weather flow (ADWF) as well as the average annual (AA) load. Flow and load peaking factors were also developed from the analysis of the historical data. These per-capita values for ADWF and AA load were then used to develop projections through the end of the planning period, by applying the per-capita values to the projected population that would be contributing flow to the facility. Other flow and load parameters presented herein (e.g., maximum month) were projected by applying observed historical peaking factors to the projected ADWF and AA loads.

### 2.2 Background

### 2.2.1 Previous WPCP Facility Planning

Planning for WPCP facility needs has been accomplished in varying degrees since construction of the original facilities. The flow and load projections from the 2005 WPCP Facility Plan ${ }^{1}$ are included herein for comparison to the updated projections developed for this effort. In the 2005 Facility Plan historical data between 1996 and 2001 was analyzed and the following flow projections were made:

- AA flows of 9 mgd in 2009.
- AA flows of 12 mgd in 2015.
- AA flows of 15 mgd at buildout.

These projections were made with the context of strong population growth assumptions (Table 2.4), significant industrial loading from Sierra Nevada Brewing Company (Section 2.3.3.1), and 100 percent connection of approximately 7,800 residences identified in the Nitrate Action Plan ${ }^{2}$.

[^4]An updated facility planning effort was initiated in 2018 to evaluate long-term facility needs related to condition, capacity, and regulatory requirements (near- and longer-term) as a basis for adjustments to the City's sewer service rates. During completion of this effort, the City experienced several planning changes, including significant impacts related to the Camp Fire in late 2018 and the COVID-19 pandemic beginning in late 2019.
That planning effort was eventually summarized in the WPCP Strategic Planning Report 3 in February 2021 as a means for jump starting the ongoing sewer service rate adjustments.

The updated analysis presented herein reflects the City's effort to correct the previously unknown limitations reflected in the WPCP Strategic Planning Report ${ }^{4}$, which includes:

- An increase in the baseline population within the City's service area.
- Increased anticipated population growth rates.
- Increased flows due to planned development at the California State University, Chico.
- Increased sewer flows due to a possible future connection of the Town of Paradise sewer.

Updated WPCP needs presented herein are based on these updates, assume that the proposed connection of the Town of Paradise sewer to the City's WPCP will occur, and include planning through the year 2057 (to match the Town of Paradise planning period).

### 2.2.2 WPCP Service Area

As described in the Chico General Plan5, the City's planning efforts should address all land within the incorporated City limits, land within the City's designated sphere of influence (SOI), and other unincorporated land within Butte County (Figure 2.1). As discussed in Chapter 1, the Town of Paradise's new collection system is expected to be connected directly to the influent box at the WPCP by December 2026, at which point it will begin contributing to the WPCP's influent flow (Figure 2.2).

The WPCP is located approximately four miles southwest of downtown Chico and provides wastewater treatment and disposal services for most of the residences within the incorporated City of Chico and other residences in unincorporated areas of Butte County (Figure 2.3).

[^5]

Figure 2.1 City of Chico Sphere of Influence \& Planning Area Image from City of Chico 2030 General Plan (City of Chico, 2021)


Figure 2.2 Town of Paradise Sewer Service Area and Proposed Export Pipeline Image from Town of Paradise Sewer Project EIR Public Summary Report (Town of Paradise, 2021)


Figure 2.3 WPCP Service Area Population Details
Image received from the City of Chico (2021)

## -This Page Intentionally Left Blank-

# Exhibit 4 - Regionalization Planning Report 

REGIONALIZATION PLANNING REPORT FOR THE PARADISE SEWER PROJECT| CITY OF CHICO

### 2.3 Historical Population, Flows, and Loads

Historical population, flow and load data are analyzed herein to develop ADWF and AA load per-capita values, as well as flow and load peaking factors.

### 2.3.1 Historical Population

Estimation of current per-capita wastewater flows (i.e., the volume of flow per person contributing to the total flow to the WPCP) is important because it provides a benchmark for future flow projections. It can also be compared to typical per capita flows to identify any collection system issues that may exist (e.g., flow due to infiltration and inflow).

To avoid over (or under) sizing future WPCP facilities, accurate per-capita values are needed. For true per-capita estimation, only the population connected to the WPCP collection system should be counted. Because the City population and the connected population are not equivalent, the connected population was estimated as follows:

$$
2020 \text { Population }_{\text {tot al connected }}=110,364-17,204=93,160
$$

The estimated 2020 connected population represents about 84 percent of the estimated 2020 City population. This percentage was applied to historical City population estimates to develop historical connected population estimates (Table 2.1).

Table 2.1 Historical Population Estimates

| Year | Estimated City Population |  |
| :---: | :---: | :---: |
| 1$)^{(1)}$ | Estimated Connected Population |  |
| 2000 | 60,516 | 51,073 |
| 2001 | 64,810 | 54,697 |
| 2002 | 66,481 | 56,107 |
| 2003 | 67,862 | 57,273 |
| 2004 | 70,322 | 59,349 |
| 2005 | 72,459 | 61,152 |
| 2006 | 77,348 | 65,279 |
| 2007 | 82,784 | 69,866 |
| 2008 | 85,034 | 71,765 |
| 2009 | 85,739 | 72,360 |
| 2010 | 86,136 | 72,695 |
| 2011 | 86,707 | 73,177 |
| 2012 | 87,523 | 73,866 |
| 2013 | 88,127 | 74,376 |
| 2014 | 88,785 | 74,931 |
| 2015 | 89,615 | 75,631 |
| 2016 | 90,007 | 75,962 |
| 2017 | 91,166 | 76,940 |
| 2018 | 92,040 | 77,678 |
| 2019 | 110,126 | 92,942 |
| 2020 | 110,364 | 93,160 |
| Notes: |  |  |
| $($ State of California |  |  |

### 2.3.1.1 Estimation of Full-Time Residents

The estimation of full-time residents is another key factor in the per-capita analysis for the City, due to the significant number of connected population that are college students (some of which are not full-time residents). Most of the students that live within the City's SOI are enrolled at the Chico campuses of California State University (CSU) (also known as CSU Chico or Chico State) or Butte College. The following enrollment data is available for these colleges:

- CSU Chico:
- Total number of students.
- Number of students that list Butte County as their residence.
- Butte College:
- Total number of students.
- Percentage of students that list the City of Chico as their residence.

The connected population when school is in session (which represents the maximum population during the calendar year) was estimated using the following assumptions:

- CSU Chico:
- 100 percent of the students that listed Butte County as their residence remain in the service area during school breaks.
- 100 percent of students that did not list Butte County as their residence leave the service area during school breaks.
- Butte College:
- 100 percent of the students that listed the City of Chico as their residence remain in the service area during school breaks.
- 100 percent of students that did not list the City of Chico as their residence leave the service area during school breaks.

In the case of Butte College, more enrolled students live in Chico than attend classes at the Chico campus (i.e., the connected population does not decrease when school is in-session). A slight decrease in flow may occur when these students are attending classes; however, most of their contribution to the collection system (from clothes washing, showers, dishwashers, etc.) is unaffected. A decrease in flow was not discernable from the data; therefore, the effect of Butte College breaks was presumed to be insignificant.

Accordingly, the connected population when school is on-break (which represents the minimum population during the calendar year) was estimated as follows:

$$
\text { Population }_{\text {On Break }}=\text { Population }_{\text {Total Connected }}-\text { Population }_{\text {CSU Chico non County }}
$$

The resulting Historical College Student Total and Connected Population Estimates are summarized in Table 2.2.

Table 2.2 Historical College Student Total and Connected Population Estimates

| Year | CSU Chico Student Population ${ }^{(1)}$ |  |  |  | Butte College Student Population |  |  | Estimated Connected Population |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Fall) | County | County \% | non-County | Total (Fall) ${ }^{(2)}$ | City Residents ${ }^{(8)}$ | Chico Campus (Fall) | On-Break (Min) ${ }^{(4)}$ | In-Session ${ }^{(5)}$ |
| 2000 | 15,912 | 4,418 | 27.8\% | 11,494 | 11,542 | 4,848 | 3,195 | 39,579 | 51,073 |
| 2001 | 16,704 | 4,573 | 27.4\% | 12,131 | 12,669 | 5,321 | 3,507 | 42,566 | 54,697 |
| 2002 | 16,246 | 4,534 | 27.9\% | 11,712 | 13,296 | 5,584 | 3,680 | 44,395 | 56,107 |
| 2003 | 15,516 | 4,371 | 28.2\% | 11,145 | 12,244 | 5,142 | 3,389 | 46,128 | 57,273 |
| 2004 | 15,734 | 4,343 | 27.6\% | 11,391 | 12,745 | 5,353 | 3,528 | 47,958 | 59,349 |
| 2005 | 15,919 | 4,161 | 26.1\% | 11,758 | 13,453 | 5,650 | 3,724 | 49,394 | 61,152 |
| 2006 | 16,250 | 4,016 | 24.7\% | 12,234 | 12,284 | 5,159 | 3,400 | 53,045 | 65,279 |
| 2007 | 17,034 | 3,933 | 23.1\% | 13,101 | 12,228 | 5,136 | 3,385 | 56,765 | 69,866 |
| 2008 | 17,132 | 3,811 | 22.2\% | 13,321 | 12,458 | 5,232 | 3,448 | 58,444 | 71,765 |
| 2009 | 16,934 | 3,729 | 22.0\% | 13,205 | 13,147 | 5,522 | 3,806 | 59,155 | 72,360 |
| 2010 | 15,989 | 3,419 | 21.4\% | 12,570 | 13,293 | 5,583 | 3,591 | 60,125 | 72,695 |
| 2011 | 15,920 | 3,381 | 21.2\% | 12,539 | 12,923 | 5,428 | 3,587 | 60,638 | 73,177 |
| 2012 | 16,470 | 3,326 | 20.2\% | 13,144 | 12,290 | 5,162 | 3,365 | 60,722 | 73,866 |
| 2013 | 16,356 | 3,202 | 19.6\% | 13,154 | 12,163 | 5,108 | 3,320 | 61,222 | 74,376 |
| 2014 | 17,287 | 3,226 | 18.7\% | 14,061 | 12,161 | 5,108 | 3,366 | 60,870 | 74,931 |
| 2015 | 17,220 | 3,080 | 17.9\% | 14,140 | 11,669 | 4,901 | 3,230 | 61,491 | 75,631 |
| 2016 | 17,557 | 3,081 | 17.5\% | 14,476 | 11,300 | 4,746 | 3,128 | 61,486 | 75,962 |
| 2017 | 17,875 | 3,001 | 16.8\% | 14,874 | 11,386 | 4,782 | 3,152 | 62,066 | 76,940 |
| 2018 ${ }^{(6)}$ | 18,179 | 3,052 | 16.8\% | 15,127 | 11,580 | 4,863 | 3,205 | 62,551 | 77,678 |
| 2019 ${ }^{(6)}$ | 18,488 | 3,104 | 16.8\% | 15,384 | 11,776 | 4,946 | 3,260 | 77,558 | 92,942 |
| $2020{ }^{(6)}$ | 18,802 | 3,157 | 16.8\% | 15,646 | 11,977 | 5,030 | 3,315 | 77,514 | 93,160 |

Notes:
(1)
(Tiformia State University 2018
(2) (National Center for Education Statistics 2018)
(3) (Butte College 2016).
(4) Calculated using equation described in Section 2.3 .
(4) Calculated using
(6) Estimation based on student population growth assumption of 1.7 percent to match population growth values used elsewhere. Does not reflect numbers reported by the university.

### 2.3.2 Historical Flows

Flow is defined as the volumetric rate at which raw influent wastewater enters the WPCP from the collection system, usually expressed in terms of millions of gallons per day (mgd). The WPCP influent flow measurement occurs downstream of screening and grit removal and prior to the introduction of plant recycle streams, tracked as a combination of flow measurements that occur in parallel Parshall flumes downstream of the grit removal facilities.

Daily minimum, maximum, and average flow data were compiled from monthly operational reports from January 2012 through December 2020 (the latest 9 full calendar years of data available) and analyzed to develop the flow parameters for each year as defined below:

- Average Dry Weather Flow (ADWF):
- The ADWF is the average of daily average flows for the three-month dry weather period (July through September) each year.
- ADWF per capita is the ADWF divided by the connected population, expressed in units of gallons per capita day (gpcd).
- Average Annual Flow (AAF):
- The AAF is the average of average daily flows for the entire calendar year.
- The AAF Peaking Factor (AAFPF) is AAF divided by the ADWF.
- Maximum Month Flow (MMF):
- The MMF is the maximum 30-day running average of average daily flow data.
- The MMF Peaking Factor (MMFPF) for each year is MMF divided by the ADWF.
- Peak Flow (PF):
- The PF for each year is the maximum instantaneous flow measured by supervisory control and data acquisition (SCADA). ${ }^{6 .}$
- The PF Peaking Factor (PFPF) for each year is PF divided by the ADWF.

Prior to developing these flow parameters, known erroneous data points and other statistical outliers (e.g., a PF on a dry summer day) were identified and removed (Appendix B).

### 2.3.2.1 Historical ADWF and ADWF per Capita

ADWF was calculated as described above, and an ADWF per capita range was calculated using the maximum and minimum connected population estimates from Table 2.2 (Figure 2.4).

[^6]

Figure 2.4 Historical ADWF and ADWF Per Capita Range
The upper bound of the ADWF per capita value represents the minimum year-round connected population estimate (assuming 100 percent of the non-local college students remain in the service area during school breaks, as described in Section 2.2). The lower bound ADWF per capita value represents the maximum year-round connected population estimate (assuming 100 percent of the non-local college students leave the service area during school breaks).

To better estimate the ADWF per capita value, flow data were compared with respect to the four major college breaks: spring break, summer break, Thanksgiving break, and winter break. Assuming students and non-students produce the same volume of wastewater when they are living in the service area, the ADWF per capita can be estimated algebraically:

$$
\frac{\boldsymbol{n}_{\text {breaks }}}{\boldsymbol{n}_{\text {total }}} \cdot \boldsymbol{A D W F}_{\text {breaks }} \cdot A D W F \text { per capita }+\frac{\boldsymbol{n}_{\text {in-session }}}{\boldsymbol{n}_{\text {total }}} \cdot\left(\text { Population }_{\text {total }}\right)
$$

$$
\cdot A D W F \text { per capita }=\boldsymbol{A D W} \boldsymbol{F}_{\text {total }}
$$

Where n is the number of days (either during a break or in-session) for the ADWF period each year; for 2012:

$$
\begin{gathered}
\frac{\mathbf{5 0}}{\mathbf{8 4}} \cdot \mathbf{5 . 8 2} \mathbf{~ m g d} \cdot A D W F \text { per capita }+\frac{\mathbf{3 4}}{\mathbf{8 4}} \cdot(\mathbf{7 3}, \mathbf{8 6 6}) \cdot \text { ADWF per capita }=\mathbf{6 . 0 5} \mathbf{~ m g d} \\
A D W F \text { per capita }=87 \mathrm{gpcd}
\end{gathered}
$$

This calculation was applied to each year, with results summarized in Figure 2.5.


Figure 2.5 Historical ADWF vs. College Breaks and Estimated ADWF per Capita
From this ADWF per capita estimate, the population of students that leave during break can be more accurately estimated as follows:

From this, the connected populations summarized in Table 2.2 were updated (Table 2.3).
Table 2.3 Estimated Connected Population vs College Breaks

| Year | Connected Population, On-Break (Minimum) ${ }^{(1)}$ | Connected Population, On-Break (Estimated) | Connected Population, In-Session (Maximum) ${ }^{(1)}$ |
| :---: | :---: | :---: | :---: |
| 2009 | 59,155 | 65,363 | 72,360 |
| 2010 | 60,125 | 67,682 | 72,695 |
| 2011 | 60,638 | 66,406 | 73,177 |
| 2012 | 60,722 | 67,265 | 73,866 |
| 2013 | 61,222 | 67,010 | 74,376 |
| 2014 | 60,870 | 70,571 | 74,931 |
| 2015 | 61,491 | 70,131 | 75,631 |
| 2016 | 61,486 | 68,881 | 75,962 |
| 2017 | 62,066 | 69,216 | 76,940 |
| 2018 | 62,551 ${ }^{(2)}$ | 69,061 | 77,678 |
| 2019 | 77,558 ${ }^{(2)}$ | 85,760 | 92,942 |
| 2020 | 77,514 ${ }^{(2)}$ | 88,830 | 93,160 |
| Notes: <br> (1) Copied from Table 2.2. <br> (2) Estimation based on student population growth assumption of 1.7 percent to match population growth values used elsewhere. Does not reflect numbers reported by the university. |  |  |  |

For the period prior to 2018, approximately 54 percent of the non-resident students (non-City Butte College and non-County CSU Chico) left the service area over breaks (on average).

### 2.3.2.2 Other Historical Flows and Peaking Factors

Historical flow parameters are important for various planning, design, and operational purposes, a few of which are listed below?

- AA flows: Used for estimation of pumping and chemical costs; can be used as a benchmark for comparison to similar plants for staffing purposes.
- Maximum monthly (MM) flows: Used to identify the required number and/or size of unit processes with large hydraulic retention; prevents overly conservative design.
- Peaking factors: Used for hydraulic design and sizing of more critical unit processes.

For each flow parameter, a historical flow peaking factor was developed that represents the ratio of that flow to the ADWF.

The WPCP historical flow parameters and associated peaking factors for 2012-2020 are presented in Figure 2.6.


Figure 2.6 Historical Flow Parameters and Peaking Factors

[^7]The flow peaking factors are applied to the ADWF projections in the development of projections for the other flow parameters used for facility design (MMF and PF).

Because the historical PFs for this data set represent peak instantaneous flows, the PF peaking factors exceed the previously published peaking factor for the WPCP8,9 of 2.5. This past value reflects peak hour flow, which reflects a more realistic basis for capacity-related planning; the hydraulic design of the WPCP allows for some dampening of instantaneous flow impacts. Therefore, a flow peaking factor of 2.5 (matching historical practices) was chosen for this planning effort.

### 2.3.3 Historical Wastewater Loads

Wastewater loads are defined as the quantities of pollutants carried by the wastewater as it enters a treatment facility, usually expressed in terms of pounds per day (lb/day). Important loading criteria (related to facility design) include:

- Daily loads: Daily loads calculated using the measured average daily flow and the measured daily concentration for each pollutant.
- Annual average loads: Average daily loads treated at a facility for the calendar year, based on measured loading values.

Loading values were calculated for the WPCP based on historical data discussed herein. No historical loading values were available for Paradise so it was assumed that wastewater from Paradise would have the same characteristics as the flow from Chico. Once calculated, statistical outliers were removed from each pollutant's dataset to account for possibly erroneous concentration measurements ${ }^{10}$.

### 2.3.3.1 Sierra Nevada Brewery Loads

The largest significant industrial user (SIU) in the WPCP's service area is the Sierra Nevada Brewery (SNB). Untreated brewery wastewater is typically high-strength, which can be a significant burden for wastewater treatment. The preparation of 2005 WPCP Facility Plan ${ }^{11}$ was preceded by a significant uptick in the flow and loads discharged by SNB to the City's collection system (and ultimately treated by the WPCP). This directly impacted the load projections made during that facility planning effort.

Since the 2005 facility planning effort, SNB has installed pre-treatment systems for its brewery wastewater prior to its discharge to the City's collection system, which has significantly reduced SNB's load on the WPCP as indicated in Figure 2.7.

[^8]

Figure 2.7 Historical Sierra Nevada Brewery Loads
Given the significant upgrades of SNB's pretreatment systems and the measured downward trend of their loading on the WPCP, sampling frequency by SNB was reasonably decreased (the brewery's effluent wastewater [load to the WPCP] has improved in quality over the time period analyzed).

To develop accurate per capita load values for the WPCP, the load associated with the brewery is differentiated from the rest of the total load measured at the plant (non-Sierra Nevada loads) in this evaluation. Since SNB data was not available after 2017, it was assumed for this analysis that 2018, 2019, and 2020 were identical to 2017.

### 2.3.3.2 Non-Sierra Nevada Loads and per Capita Values

Using the same methodology to capture college break and in-session population differences with a single per-capita value used for ADWF, AA load per capita values were calculated for TSS, BOD, and ammonia ( $\mathrm{NH}_{3}$ ) (Figure 2.8, Figure 2.9, and Figure 2.10).

REGIONALIZATION PLANNING REPORT FOR THE PARADISE SEWER PROJECT | CITY OF CHICO


Figure2.8 Historical TSS Loads


Figure 2.9 Historical BOD Loads


Figure 2.10 Historical $\mathrm{NH}_{3}$ Loads
The per-capita ammonia load values reported in Figure 2.10 reflect the non-Sierra Nevada ammonia loading; Sierra Nevada's ammonia loading is shown only for comparison purposes. The average annual and per capita loads for $\mathrm{NH}_{3}$ have trended upwards in recent years. However, the WPCP NH3 data collected prior to 2018 was based on grab samples and all data since are based on 24 -hour composite samples (depicting a more realistic daily concentration for the influent flow). For this reason, $\mathrm{NH}_{3}$ data prior to 2018 was not used for future projections and is only presented herein for reference. Additionally, WPCP NH3 data was not available for 2019 and 2020 so the 2018 loads were used in their place.

Historical maximum month values were calculated for non-Sierra Nevada loads (Figure 2.11) and peaking factors were calculated by dividing these loads by the average annual loads (Figure 2.12).

Exhibit 4 - Regionalization Planning Report

REGIONALIZATION PLANNING REPORT FOR THE PARADISE SEWER PROJECT | CITY OF CHICO


Figure 2.11 Historical Max Month Loads


Figure 2.12 Historical Max Month Load Peaking Factors

### 2.4 Projected Population, Flows, and Loads

Population projections were created using historical trends and input from City staff. ADWF and AA load were projected by applying the developed per-capita values to the projected population. Other flow and load parameters were projected by applying the peaking factors to the projected ADWF or AA load.

### 2.4.1 Projected Population

Much of the City's population growth before 2009 was due to annexations related to the Nitrate Action Plan and other efforts undertaken by the City to consolidate its incorporated limits. As depicted in Figure 2.13, the Great Recession of 2008/2009 slowed this growth significantly with no notable increase until 2019. In 2019, the City saw a substantial increase in population growth following the Camp Fire, as Chico received an influx of displaced residents from the Town of Paradise.

There are currently several development efforts underway (and planned) within the City's SOI that will result in continued growth in the near-term.

## Exhibit 4 - Regionalization Planning Report



Figure 2.13 Historical Population Growth

Other historical planning efforts have assumed population growth rates that are higher than recently observed (Table 2.4).

Table 2.4 Summary of Annual Growth Rate Projections

| Source | Year(s) | City | County |
| :--- | :---: | :---: | :---: |
| Facilities Plan | 1996 | $2.9 \%$ | - |
| General Plan Update | 1998 | $2.9 \%$ | $2.5 \%$ |
| Facilities Plan Update | 2005 | $2.5 \%$ | - |
| BCAG | 2014 | $1.2-1.6 \%$ | $1.2-1.6 \%$ |
| CADOF | 2015 | - | $0.53 \%$ |
| General Plan Update | 2017 | $1.7 \%$ | $1.6 \%$ |
| Observed Historical | $2009-2018$ | $0.83 \%$ | $0.44 \%$ |
| WPCP Strategic <br> Planning Report |  | $1.2-1.4 \%$ | - |

The original WPCP Strategic Planning Report ${ }^{12}$ assumed a growth rate of 1.2 percent, with an alternate growth rate assumption of 1.4 percent presented for comparison purposes, as requested by the City (Table 2.5).

For the updated analysis presented herein, a growth rate of 1.7 percent is used as directed by City staff. This growth rate matches the growth rate used for the 2017 General Plan Update and is intended to reflect expected and ongoing development activity within the City's SOI.

[^9]Table 2.5 Connected Population Growth Projections

| Year | As Presented in WPCP Strategic Planning Report ${ }^{(1)}$ |  |  |  | Current ${ }^{(2)}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1.2\% Annual Growth |  | 1.4\% Annual Growth |  | 1.7\% Annual Growth |  |
|  | On-Break ${ }^{(3)}$ | In-Session | On-Break ${ }^{(3)}$ | In-Session | On-Break ${ }^{(3)}$ | In-Session |
| 2018 | 70,826 | 77,938 | 70,812 | 77,938 | - | - |
| 2019 | 71,676 | 78,873 | 71,803 | 79,029 | - | - |
| 2020 | 72,536 | 79,820 | 72,808 | 80,136 | 88,830 | 93,160 ${ }^{(4)}$ |
| 2021 | 73,494 | 80,778 | 73,930 | 81,257 | 88,235 | 95,474 |
| 2022 | 74,376 | 81,747 | 74,965 | 82,395 | 91,060 | 98,422 |
| 2023 | 75,357 | 82,728 | 76,119 | 83,549 | 93,936 | 101,423 |
| 2024 | 76,261 | 83,721 | 77,185 | 84,718 | 96,874 | 104,488 |
| 2025 | 77,266 | 84,725 | 78,371 | 85,904 | 99,874 | 107,618 |
| 2026 | 78,193 | 85,742 | 79,468 | 87,107 | 102,939 | 110,814 |
| 2027 | 79,222 | 86,771 | 80,687 | 88,326 | 107,496 | 115,505 |
| 2028 | 80,172 | 87,812 | 81,817 | 89,563 | 110,764 | 118,909 |
| 2029 | 81,226 | 88,866 | 83,071 | 90,817 | 114,105 | 122,389 |
| 2030 | 82,201 | 89,932 | 84,234 | 92,088 | 117,519 | 125,943 |
| 2031 | 83,280 | 91,011 | 85,523 | 93,378 | 120,426 | 128,993 |
| 2032 | 84,279 | 92,104 | 86,720 | 94,685 | 123,409 | 132,122 |
| 2033 | 85,385 | 93,209 | 88,046 | 96,010 | 126,460 | 135,322 |
| 2034 | 86,409 | 94,327 | 89,279 | 97,355 | 129,582 | 138,594 |
| 2035 | 87,541 | 95,459 | 90,642 | 98,718 | 132,776 | 141,941 |
| 2036 | 88,592 | 96,605 | 91,911 | 100,100 | 136,042 | 145,363 |
| 2037 | 89,751 | 97,764 | 93,312 | 101,501 | 139,384 | 148,863 |
| 2038 | 90,828 | 98,937 | 94,618 | 102,922 | 142,802 | 152,443 |

REGIONALIZATION PLANNING REPORT FOR THE PARADISE SEWER PROJECT | CITY OF CHICO

| Year | As Presented in WPCP Strategic Planning Report ${ }^{(1)}$ |  |  |  | Current ${ }^{(2)}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1.2\% Annual Growth |  | 1.4\% Annual Growth |  | 1.7\% Annual Growth |  |
|  | On-Break ${ }^{(3)}$ | In-Session | On-Break ${ }^{(3)}$ | In-Session | On-Break ${ }^{(3)}$ | In-Session |
| 2039 | 92,015 | 100,124 | 96,059 | 104,363 | 146,299 | 156,104 |
| 2040 | 93,125 | 101,326 | 97,423 | 105,824 | 149,877 | 159,848 |
| 2041 | - | - | - | - | 152,513 | 162,654 |
| 2042 | - | - | - | - | 155,199 | 165,512 |
| 2043 | - | - | - | - | 157,935 | 168,424 |
| 2044 | - | - | - | - | 160,723 | 171,390 |
| 2045 | - | - | - | - | 163,563 | 174,411 |
| 2046 | - | - | - | - | 166,457 | 177,489 |
| 2047 | - | - | - | - | 169,406 | 180,625 |
| 2048 | - | - | - | - | 172,410 | 183,821 |
| 2049 | - | - | - | - | 175,472 | 187,077 |
| 2050 | - | - | - | - | 178,593 | 190,395 |
| 2051 | - | - | - | - | 181,774 | 193,776 |
| 2052 | - | - | - | - | 185,016 | 197,222 |
| 2053 | - | - | - | - | 188,320 | 200,734 |
| 2054 | - | - | - | - | 191,689 | 204,314 |
| 2055 | - | - | - | - | 195,123 | 207,963 |
| 2056 | - | - | - | - | 198,625 | 211,683 |
| 2057 | - | - | - | - | 202,195 | 215,475 |

Notes:
(1) Does not include Paradise residents.
(2) Includes connected population from the Town of Paradise, as projected in Technical Memorandum \#2 for the Paradise Sewer Project (Design Criteria for Local Wastewater Treatment Plant, HDR, November 2020).
(3) Projected from Table 2.3 assuming college enrollment grows at the same rate as the non-student connected population.
(4) Carried down from Table 2.1.

The remainder of this report, beginning with Table 2.6, assumes a singular growth rate assumption of 1.7 percent.

With use of the updated projection of 1.7 percent annual growth rate and the updated baseline population values for 2020 presented herein (which represent a 20 percent increase from the 2018 population estimate), the resulting connected population projection in the year 2057 is 215,475 residents. This represents a population increase of 131 percent from the 2020 baseline population, as anticipated growth within the Chico and Paradise service areas combined.

Annexations of unincorporated areas of Butte County (unincorporated islands within the City limits and developments outside of City limits) are included in this projection because these annexations have been captured in thehistorical data and because the rate of annexations is not expected to significantly change.

The updated population projections also include connected Paradise residents starting in 2027 (estimated connection to the WPCP is December 2026), and total 6,163 people by 2057 (Table 2.6). For the remainder of the discussion in this report, only the combined connected population is considered.

Table 2.6 Connected Chico and Paradise Residents

| Year | Chico | Paradise ${ }^{(1)}$ | Total Connected ${ }^{(2,3)}$ |
| :---: | :---: | :---: | :---: |
| 2020 | 93,160 | 1,200 | 93,160 |
| 2021 | 95,474 | 1,230 | 95,474 |
| 2022 | 98,422 | 1,260 | 98,422 |
| 2023 | 101,423 | 1,292 | 101,423 |
| 2024 | 104,488 | 1,324 | 104,488 |
| 2025 | 107,618 | 1,357 | 107,618 |
| 2026 | 110,814 | 1,391 | 110,814 |
| 2027 | 114,079 | 1,426 | 115,505 |
| 2028 | 117,412 | 1,497 | 118,909 |
| 2029 | 120,817 | 1,572 | 122,389 |
| 2030 | 124,293 | 1,651 | 125,943 |
| 2031 | 127,260 | 1,733 | 128,993 |
| 2032 | 130,302 | 1,820 | 132,122 |
| 2033 | 133,411 | 1,911 | 135,322 |
| 2034 | 136,588 | 2,006 | 138,594 |
| 2035 | 139,834 | 2,107 | 141,941 |
| 2036 | 143,151 | 2,212 | 145,363 |
| 2037 | 146,541 | 2,323 | 148,863 |
| 2038 | 150,004 | 2,439 | 152,443 |
| 2039 | 153,543 | 2,561 | 156,104 |
| 2040 | 157,159 | 2,689 | 159,848 |
| 2041 | 159,831 | 2,823 | 162,654 |
| 2042 | 162,548 | 165,512 |  |
| 2043 | 165,311 | 168,424 |  |
|  |  |  |  |


| Year | Chico | Paradise $^{(1)}$ | Total Connected ${ }^{(2,3)}$ |
| :--- | :---: | :---: | :---: |
| 2044 | 168,121 | 3,268 | 171,390 |
| 2045 | 170,979 | 3,432 | 174,411 |
| 2046 | 173,886 | 3,603 | 177,489 |
| 2047 | 176,842 | 3,783 | 180,625 |
| 2048 | 179,848 | 3,973 | 183,821 |
| 2049 | 182,906 | 4,171 | 187,077 |
| 2050 | 186,015 | 4,380 | 190,395 |
| 2051 | 189,177 | 4,599 | 193,776 |
| 2052 | 192,393 | 4,829 | 197,222 |
| 2053 | 195,664 | 5,070 | 200,734 |
| 2054 | 198,990 | 5,324 | 204,314 |
| 2055 | 202,373 | 5,590 | 207,963 |
| 2056 | 205,814 | 5,869 | 211,683 |
| 2057 | 209,312 | 6,163 | 215,475 |

Notes:
(1) Connected Paradise residents were calculated using Paradise wastewater flows and per capita usage provided by HDR.
(2) From Table 2.5.
(3) Connected residents total does not include Paradise residents until the connection is online in 2027.

The total connected population projection of 215,475 represents a 131 percent increase from the 2020 connected population estimate.

### 2.4.1.1 Population Growth due to Connection of Unconnected City Residents

The number of currently unconnected City residents is a more significant portion of the overall population than the county annexations, and the historical rate of adding unconnected City residents is expected to be higher in the future as the implementation of the Nitrate Compliance Plan continues.

For this planning effort, it was assumed that 100 percent of the estimated 17,204 unconnected City residents will be connected by 2040; the number of residents connected annually is assumed to increase at the same rate as that of the currently connected population.

### 2.4.2 Projected Flows

In the dry weather months from which the ADWF per-capital value was derived, approximately 60 percent of the days are on-break days and 40 percent are in-session days. ADWF was projected by applying the average ADWF per-capita value ( 76.3 gpcd ) proportionally to the break and in-session population projections as follows:

$$
\begin{gathered}
A D W F=60 \% \cdot A D W F \text { per capita } \cdot \text { Population }_{\text {on-break }}+40 \% \cdot \text { ADWF per capita } \\
\cdot \text { Population }_{\text {in-session }}
\end{gathered}
$$

Other flow parameters were projected by applying the flow peaking factors to the projected ADWF (Figure 2.14). As with Table 2.6, the ADWF flow projections for the total connected population can also be split between the Chico service area and the Paradise residents (Figure 2.15).
-This Page Intentionally Left Blank-



 | $-\sim$ | 7.5 | 7.7 | 8.0 | 8.2 | 8.5 | 8.7 | 9.1 | 9.4 | 9.7 | 10.0 | 10.2 | 10.5 | 10.7 | 11.0 | 11.2 | 11.5 | 11.8 | 12.1 | 12.4 | 12.7 | 12.9 | 13.1 | 13.4 | 13.6 | 13.8 | 14.1 | 14.3 | 14.6 | 14.8 | 15.1 | 15.4 | 15.6 | 15.9 | 16.2 | 16.5 | 16.8 | 17.1 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  | -MWF | 11.5 | 11.9 | 12.2 | 12.6 | 13.0 | 13.4 | 14.0 | 14.4 | 14.8 | 15.3 | 15.6 | 16.0 | 16.4 | 16.8 | 17.2 | 17.6 | 18.1 | 18.5 | 19.0 | 19.4 | 19.8 | 20.1 | 20.5 | 20.8 | 21.2 | 21.6 | 21.9 | 22.3 | 22.7 | 23.1 | 23.5 | 24.0 | 24.4 | 24.8 | 25.3 | 25.7 | 26.2 |



[^10]-This Page Intentionally Left Blank

-This Page Intentionally Left Blank

### 2.4.3 Projected Loads

Average annual loads were projected by applying the average annual per-capita values to the projected population. Because of the small and decreasing portion of Sierra Nevada's load to the overall influent load, the average loads for the time period analyzed were held constant for projected loads (Figure 2.16).

### 2.5 Summary of Projections

Table 2.7 contains a summary of historical and projected population, flow, and load values. Findings related to this data include the following:

- The population connected to the WPCP collection system is projected to increase 131 percent by 2057 (from 93,160 to 215,475).
- The ADWF for the WPCP is projected to increase 126 percent by 2057 (from 7.0 mgd to 15.8 mgd ).
- Projected flows and loads are higher than previous projections:
- Projected AA and MM flows are 14 percent and 12 percent higher than the previous facility plan's projections, respectively.
- Projected AA and MM TSS loads are 17 percent and 31 percent higher than the previous facility plan's projections, respectively.
- Projected AA and MM BOD loads are 30 percent and 45 percent higher than the previous facility plan's projections, respectively.

These flow and load projections provide context for the capacity-driven facility needs discussion in Chapter 4 and the regulatory-driven facility needs discussion in Chapter 5.
-This Page Intentionally Left Blank-

-This Page Intentionally Left Blank

Table 2.7 Summary of Historical and Projected Population, Flows, and Load

| Planning Parameter | Previously Projected |  |  |  | Updated Projection |  |  |  |  | Historical Projections ${ }^{4}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2018 Baseline ${ }^{1}$ | 2018 Peaking | 2040 Projected | 2040 Projection | 2021 Baseline ${ }^{2}$ | 2021 Peaking | 2040 \& 2057 | 2040 Projection | 2057 Projection | 2005 Facility Plan | 2013 SSMPU |
|  |  | Factor | PF (2018 BL) | (2018 BL) |  | Factor | Projected PF (2021BL) | (2021 BL) | (2021BL) | Projection | Projection |
| Connected Population3 |  |  |  |  |  |  |  |  |  |  |  |
| Annual Maximum | 77,938 | - | - | 116,986 | 93,160 | - | - | 159,848 | 215,475 | - | - |
| Annual Minimum | 70,842 | - | - | 108,798 | 88,830 |  |  | 149,877 | 202,195 | - | - |
| Average Dry Weather (ADW) |  |  |  |  |  |  |  |  |  |  |  |
| Flow, mgd | 5.91 | - | - | 9.39 | 5.72 |  |  | 11.74 | 15.83 | - | 13.91 |
| Diurnal Peak Flow, mgd | 8.22 | 1.39 | 1.39 | 13.05 | 7.95 | 1.39 | 1.39 | 16.30 | 21.98 | 20.30 | - |
| AWDF per capita, gpcd | 84 | - | - | 84 | 76 |  |  | 76 | 76 | - | - |
| Annual Average (AA) |  |  |  |  |  |  |  |  |  |  |  |
| Flow, mgd | 6.35 | 1.09 | 1.09 | 10.23 | 6.18 | 1.08 | 1.08 | 12.68 | 17.10 | 15.00 | - |
| TSS, ppd | 12,443 | - | - | 19,379 | 13,062 |  |  | 26,064 | 35,028 | 30,000 |  |
| TSS per capita, ppcd | 0.17 | - | - | 0.17 | 0.17 |  |  | 0.17 | 0.17 | - |  |
| BOD, ppd | 11,051 | - | - | 17,861 | 11,586 |  |  | 24,050 | 32,379 | 25,000 |  |
| BOD percapita, ppcd | 0.16 | - | - | 0.16 | 0.15 |  |  | 0.15 | 0.15 | - |  |
| NH3, ppd | 1,214 | - | - | 1,972 | 1,705 |  |  | 3,019 | 4,069 | - |  |
| NH3 per capita, ppcd | 0.02 | - | - | 0.02 | 0.02 |  |  | 0.02 | 0.02 | - |  |
| Maximum Month (MM) |  |  |  |  |  |  |  |  |  |  |  |
| Flow, mgd | 8.52 | 1.47 | 1.47 | 13.76 | 7.86 | 1.37 | 1.37 | 16.12 | 21.74 | 19.50 |  |
| TSS, ppd | 14,672 | 1.21 | 1.21 | 23,499 | 15,618 | 1.22 | 1.22 | 31,687 | 42,585 | 32,500 |  |
| BOD, ppd | 14,224 | 1.30 | 1.30 | 23,294 | 15,478 | 1.34 | 1.34 | 32,217 | 43,376 | 30,000 |  |
| NH3, ppd | 1,512 | 1.27 | 1.27 | 2,501 | 1,873 | 1.10 | 1.10 | 3,323 | 4,479 | - |  |
| Peak |  |  |  |  |  |  |  |  |  |  |  |
| Flow, mgd | 15.86 | 2.74 | 2.50 | 23.48 | 16.36 | 2.86 | 2.50 | 29.34 | 39.58 | 37.50 | 35.30 |

Notes:
(1) For the connected population, the baseline represents the estimated connected population at the beginning of 2018; for ADW, the baseline represents the historical average of the years 2009-2017; for all other parameters, the baseline represents the historical average of the years 2010-2017
(2) For the connected population, the baseline represents the estimated connected population at the beginning of 2021 ; for all other parameters, the baseline represents the historical average of the years 2012 -2020.
(2) For the connected population, the baseline represents the estimated connected population at the beginning of 2021 ; for all other parameters, the baseline represents the historical average of the years 2012 -2020.
(3) The connected population is presented as arange for informational purposes only to reflect the biannual population swwings due to college students; the flow and load projections use a blend of both population totals presented as described in this Chapter.
(4) Historical projections were based on complete buildout of the City's Planning Area. The other projections in this table only extend to the end of the stated planning period (2040 or 2057).

## Chapter 3

## PLANT CAPACITY EVALUATION

This chapter evaluates the capacity of the City's WPCP to provide adequate treatment for the projected flows and loads within the planning period ending in 2057 (Chapter 2) in a tightening regulatory environment (Chapter 5).

Within this updated plant capacity evaluation there are several new capacity-driven upgrades identified that were not included in the recent WPCP Strategic Planning Report ${ }^{1}$. The capacitydriven upgrades that had not been previously discussed are primarily the result of the three following circumstances:

- An increased population assumption compared to that used in the WPCP Strategic Planning Report ${ }^{2}$.
- The updated 2021 baseline population is approximately 20 percent higher than the previous 2018 baseline population.
- An increased growth rate assumption due to current development planning activity (1.7 percent compared to 1.2 percent used in the WPCP Strategic Planning Report 3 ).
- An increase in planning period length (from ending in 2040 to ending in 2057) resulting a 35 percent increase in anticipated flows and loads since the previous planning effort.


### 3.1 Basis of Evaluation

Two parameters that were used to evaluate the WPCP's capacity are defined below:

- Peak hydraulic capacity: The maximum flow that can be physically passed through the treatment plant without over-topping structures or submerging effluent weirs. Evaluated with Carollo's Hydraulix ${ }^{\circledR}$ modeling software.
- Treatment process capacity: The maximum flow for the WPCP at which treatment objectives are accomplished for each process unit. Evaluated with BioWin ${ }^{T M}$ wastewater process modeling software.


### 3.1.1 Flow \& Load Basis

Annual average (AA) and maximum month (MM) flow and load projections form the basis for treatment process capacity evaluations. Peak flow projections provide the basis for peak hydraulic capacity evaluation. The flow and load projections for these analyses were developed in Chapter 2 and are summarized in Table 3.1.

[^11]Table 3.1 Projected WPCP Flows \& Loads

| Condition | Projected Flow ${ }^{(1)}$, mgd <br> $\left(T S S / B O D / \mathrm{NH}_{3}\right)$ |  |
| :--- | :---: | :---: |
| Peak | 39.6 | - |
| MM | 21.7 | $42,600 / 43,400 / 4,500$ |
| AA | 17.1 | $35,100 / 32,400 / 4,100$ |
| Average Dry Weather (ADW) | 15.8 | - |

Notes:
(1) Projection is based on the planning period which extends through 2057.

### 3.1.2 Unit Process Availability Criteria

Both capacity parameters (peak hydraulic capacity and treatment process capacity) were evaluated for each unit process based on a unit process availability criterion defined below:

- Firm capacity/availability: All units are in service (available) except the largest unit.
- Total capacity/availability: All units are in service (available).

These unit process criteria are used to evaluate individual unit process capacities as described herein. For all capacity ratings in this chapter, it is assumed that the flow distribution to each process is optimized and that individual units are receiving equal amounts of flow.

### 3.2 Background

### 3.2.1 Previous WPCP Facility Planning

The City's 2005 WPCP Facility Plan 4 described two projects to expand the firm AA treatment process capacity of the plant to 12 -and $15-\mathrm{mgd}$, respectively. Each project was developed to provide 2.5 times the AA flows in peak hydraulic capacity.

The 12 mgd upgrade project was constructed in 2007 and was comprised of hydraulic and process-related capacity improvements to several unit processes, however, the 15 mgd expansion project has not been implemented. As described in Chapter 2, AA flow is projected to surpass the WPCP's current design capacity of 12 mgd within the planning period.

### 3.2.2 WPCP Description

### 3.2.2.1 Split Flow Configuration

Influent wastewater flows through the Headworks and the primary treatment process at the WPCP by gravity. After primary treatment, primary effluent was historically split between two parallel trains (Plant 1 and Plant 2) that each consist of secondary treatment and disinfection processes.

Plants 1 and 2 were originally designed to receive approximately 30 percent and 70 percent of the total flow, respectively. However, as noted elsewhere in this report, the City is unable to consistently rely on aging Plant 1 facilities and is treating all flows with Plant 2 only. Plant 1 facilities are not discussed further in this report.

A summary of historical WPCP flow splits and capacity ratings is presented in Table 3.2.

4 (Carollo Engineers, Inc. 2005)

Table 3.2 Historical WPCP Capacity Ratings and Flow Split

| Project (Year) | Shared - <br> Primary, <br> mgd | Slant 1 - <br>  <br> Disinfection, <br> mgd (\% of <br> Total) | Plant 2 - <br>  <br> Disinfection, <br> mgd (\% of <br> Total) | Total Design <br> Capacity <br> (AA), mgd | Total Peak <br> Flow <br> Capacity, <br> mgd |
| :--- | :---: | :---: | :---: | :---: | :---: |
| 12 mgd Expansion <br> Project (2007) | 12 | $3.6(30 \%)^{(1)}$ | $8.4(70 \%)$ | 12 | 30 |
| 1997 Expansion <br> Project (1997) | 9 | $3.6(40 \%)^{(2)}$ | $5.4(60 \%)$ | 9 | 22.5 |
| 1990 Expansion <br> Project | 6 | $6(100 \%)$ | - | 6 | 15 |

(1) Plant 1 is currently not in use other than Aeration Tank \#2, which is being used for centrate storage/return. Efforts would be needed to bring Plant 1 capacity back online.
(2) Plant 1 was de-rated to 3.6 mgd in 1997 due to new nitrification requirements.

The locations of the major plant hydraulic components described in this chapter are depicted in the facility layouts included as Figures 3.1 and 3.2. The WPCP's existing hydraulic profile is Figure 3.3, and Figures 3.4 and 3.5 are the WPCP's existing liquids and solids flow schematics, respectively.
-This Page Intentionally Left Blank-

## Exhibit 4 - Regionalization Planning Report



Figure 3.1 WPCP Site Map with Facility Pond Locations
-This Page Intentionally Left Blank-


Figure 3.2 Existing WPCP Treatment Works and Facility Buildings
-This Page Intentionally Left Blank


Figure 3.3 Existing WPCP Hydraulic Profile ${ }^{5}$

Water surface elevations are based on AA design flows of 12 mgd and design peak flows of 30 mgd .
-This Page Intentionally Left Blank


Figure 3.4 Existing Liquids Flow Schematic for WPCP


Figure 3.5 Existing Solids Flow Schematic for WPCP-This Page Intentionally Left Blank

### 3.3 Peak Hydraulic Capacity Evaluation

A detailed hydraulic model was prepared to develop the hydraulic capacity for individual unit processes, which was then evaluated against the projected peak flow of 39.6 mgd using the following unit process criteria:

- Pumping processes are evaluated based on their capacity for handling the peak flow condition with the largest unit out of service (firm capacity).
- Hydraulicstructures are evaluated based on their capacity for handling the peak flow condition without over-topping the walls or submerging the effluent weirs.

The hydraulic capacity was evaluated assuming that only the Plant 2 secondary and disinfection facilities will be in operation during projected peak flows (per current operation).

### 3.3.1 Headworks

Untreated wastewater from the City's collection system enters the WPCP via 66-inch and 33-inch sewer pipes that connect to a junction box where flow is combined before flowing into the Headworks facility.

Upon entering the Headworks, the water flows through two of three bar screen channels and two mechanically induced vortex grit chambers. De-gritted influent flow is conveyed to the Parshall flume located to the southwest of the Headworks through two 4-foot-wide channels.

The Headworks facility was designed for 15 mg d buildout condition (which had an associated peak flow of 37.5 mgd when the facility was constructed); with two mechanical bar screens designed for a peak flow of 19 mgd each and two grit chambers designed for a peak flow of 20 mgd each.

To meet the projected peak flows, a third mechanical barscreen will be needed (replacing the manual bar rack that is currently installed in the third screen channel) by 2054.

### 3.3.2 Primary Treatment

From the Parshall flume, water flows through a 5-foot-wide rectangular concrete box channel that reduces to a 4 -foot-wide rectangular channel before Primary Clarifier No. 1. The channel then reduces to a 3-foot-wide rectangular channel before Primary Clarifier No. 2, with channel width remaining at 3 -feet for the rest of the influent channel.

Transition concrete channels split the flow from the influent channel to the three primary clarifiers. The effluent from the primary clarifiers is routed to the Primary Effluent Lift Station via a 4 -foot-wide concrete channel. From this location, the flow is pumped to the Plant 2 secondary treatment train.

### 3.3.3 Primary Effluent Pumping

The Primary Effluent Lift Station contains four vertical turbine pumps, with three pumps rated at 6,600 gallons per minute ( gpm ) at 30 feet of head and the fourth pump rated at 6,800 gpm at 50 feet of head. This station has a current total capacity of 34.5 mgd and a firm capacity of 28.5 mg d for the pumps. The force main between the Primary Effluent Lift Station and the aeration tanks has a capacity of 24.0 mg . The capacity of this station can be extended with the installation of a parallel force main between the Primary Effluent Lift Station and the aeration
tanks and with modifications to the existing Primary Effluent Lift Station to allow the installation of another pump.

With a firm capacity of $19,800 \mathrm{gpm}(28.5 \mathrm{mgd})$ for the pumps and 24.0 mgd for the force main, the Primary Effluent Lift station has sufficient hydraulic capacity for the projected AAF flow of 17.1 mgd , but not enough capacity for the projected peak hour wet weather flow of 39.6 mgd .

To meet peak flow projections summarized herein, the parallel force main will be needed by 2038 and an additional pump will be needed at the Primary Effluent Pump Station by 2054.

### 3.3.4 Secondary Treatment and Disinfection

The Primary Effluent Lift Station pumps primary effluent to the influent channel of Aeration Tank Nos. 3, 4, 5, and 6. Return activated sludge (RAS) can be mixed with the primary effluent at this point or added directly to each aeration tank. Mixed liquor exiting from the four aeration tanks enters the Mixed Liquor Splitter Box where the flow is currently split into three streams. The flows are transported to Secondary Clarifier Nos. 3, 4, and 5 through three 36 -inch pipes. Effluent from the three secondary clarifiers is combined in two 36 -inch pipes that combine into a 48 -inch pipe before it enters Chlorine Contact Basin Nos. 3 and 4. After passing through the flash mixer, the flow is split between the two chlorine contact basins. Effluent from both chlorine contact basins is combined and flows to the Outfall Boxthrough a 48 -inch pipe. At the Outfall Box, effluent is dechlorinated, and then flows toward the river through parallel 48 -inch and 33 inch pipelines.

### 3.3.5 Peak Hydraulic Capacity Analysis Summary

The existing system provides hydraulic control points at each of the major processes, including the primary clarifiers, aeration tanks, secondary clarifiers, and the chlorine contact basins. The control points, in the form of rectangular or v-notch weirs, provide hydraulic breaks between the processes. These hydraulic breaks are needed so that flows are split evenly between process units where required, and so that the processes are operated within design parameters in a manner such that process performance can be maintained.

The submerged flow condition for each of the WPCP main hydraulic breaks is summarized in Table 3.3 along with the results of their associated adequacy evaluation. Since the weirs are at a lower elevation than the top of the structure, the submerged weir condition is the criteria used for peak flow capacity.

Table 3.3 Hydraulic Capacity Summary for WPCP Major Processes

| Unit Process | Submerged Effluent Weir Flow Condition (mgd) | $\begin{array}{c}\text { Adequate Peak } \\ \text { Hydraulic } \\ \text { Capacity? }\end{array}$ |
| :--- | :---: | :---: |
| (1) |  |  |$]$ No | Primary Clarifiers | 29 | No |
| :--- | :---: | :--- |
| Aeration Tanks | 33 | No |
| Secondary Clarifiers | 33 | No |
| Chlorine Contact Basins | 25 |  |

Notes:
(1) Compared against peak flow projection of 39.6 mgd .

Facility improvements necessary to meet hydraulic capacity needs within the planning period are discussed in Section 3.4 in context of process needs for the same facilities.

### 3.4 Treatment Process Capacity Evaluation

Existing plant treatment processes were modeled using BioWin ${ }^{\top M}$, with projected flow and load conditions and more stringent effluent limitations outlined in Chapter 5. The model was calibrated using AA flow and load data from 2020.

The process capacity was evaluated assuming that only Plant 2 secondary and disinfection facilities will be in operation during projected peak flow and loading conditions (per current operation).

Process capacity scenarios modeled for this evaluation are summarized in Table 3.4.
Table 3.4 Modeling Scenarios

| Treatment Objective ${ }^{(1)}$ | Process | Current Flows and Loads | Projected Flows and Loads |
| :---: | :---: | :---: | :---: |
| Current Operation | Nitrifying Activated Sludge with Partial Denitrification | Modeled | Modeled |
| Reduction of effluent nitrate ${ }^{(2)}$ | MLE <br> (Modified-Ludzack Ettinger) | Not Modeled | Modeled |
| Reduction of effluent TSS/BOD ${ }^{(3)}$ | MLE + Filtration | Not Modeled | Modeled |
| Reduction of inorganics and disinfection byproducts ${ }^{(4)}$ | MLE + Filtration + Advanced Disinfection | Not Modeled | Modeled |
| Notes: <br> (1) Based on projected regulatory requirements summarized in Chapter 5. <br> (2) Less than $10 \mathrm{mg} / \mathrm{L} \mathrm{NO} 3+\mathrm{NO}_{2}$. <br> (3) $10 / 15 / 30 \mathrm{mg} / \mathrm{L}$ (average monthly, average weekly, and maximum daily). <br> (4) Values currently undefined but would predicate non-chlorine disinfection. |  |  |  |
|  |  |  |  |

### 3.4.1 Primary Treatment Facilities

Primary treatment facilities at the plant remove the portion of the influent suspended solids that can be separated from the flow by gravity. These facilities also remove grease, scum, and floatables from the influent. The principal components at the WPCP for the primary treatment process are the primary clarifiers and the primary sludge and scum pumping systems.

### 3.4.1.1 Primary Clarifiers

Three primary clarifiers are currently in use at the Chico WPCP. All are rectangular in shape and measure 98 feet by 38 feet, with a sidewater depth of 10.3 feet. To maintain acceptable overflow rates through 2057, a fourth primary clarifier would need to be constructed by 2044. The design overflow rate for all clarifiers in service with this additional unit would be 1,150 gallons per day per square foot ( $\mathrm{gpd} / \mathrm{ft}^{2}$ ) for projected AA flow and $2,660 \mathrm{gpd} / \mathrm{ft}^{2}$ for peak flow. The firm overflow rates for AA and peak flows are $1,530 \mathrm{gpd} / \mathrm{ft}^{2}$ and $3,540 \mathrm{gpd} / \mathrm{ft}^{2}$, respectively. These overflow rates fall within commonly accepted design criteria.

### 3.4.1.2 Primary Sludge and Scum Pumping

Primary sludge is thickened in Primary Clarifier Nos. 1 and 2 and pumped by three primary sludge double disc pumps to the digesters, each with a capacity of 200 gpm . Two primary sludge progressive cavity pumps are dedicated to Primary Clarifier No. 3, each with a capacity of 70 gpm at 60 feet of head.

These systems continue to provide sufficient capacity for current loads and treatment objectives as well as projected loads and advanced treatment.

### 3.4.1.3 Summary of Primary Treatment System Needs

The Headworks facility will need a third mechanical barscreen by 2054.
The primary treatment facilities will require an additional primary clarifier by 2044 and a capacity expansion for the Primary Effluent Lift Station which includes a parallel force main by 2038 and an additional primary effluent pump (with related wet well improvements) by 2054.

### 3.4.2 Secondary Treatment Facilities

The capacity evaluation presented herein discusses operation of the secondary treatment unit processes in nitrification mode. Nitrification describes the biochemical process whereby $\mathrm{NH}_{3}$ present in municipal wastewater is oxidized into nitrate. Currently, the WPCP nitrifies the wastewater through a single stage nitrification step, where the nitrification process occurs simultaneously with carbonaceous treatment. Carbonaceous treatment is the oxidation of soluble and particulate organic compounds present in the primary effluent by biochemical processes, which is the primary focus of secondary treatment. Since the front of the aeration tanks is unaerated, partial denitrification is achieved from the nitrate in the RAS returned to these unaerated zones.

### 3.4.2.1 Aeration Tanks and Secondary Clarifiers

Aeration Tank Nos. 3 through 6 are rectangular and each have a total volume of approximately 4.36 million gallons (MG).

Secondary Clarifier Nos. 3, 4 and 5 are all 100-foot diameter circular tanks with a sidewater depth of 14 feet. Each clarifier has a center pier-mounted rotating sludge collector mechanism driven by a 1 horsepower (hp) motor.

### 3.4.2.2 Existing Nitrifying Activated Sludge Process

With all 4 existing aeration tanks and all three existing secondary clarifiers in service, the WPCP does not have adequate capacity to treat the projected max month BOD, TSS, and NH3 loads at the projected peak flows.

Using the projected influent TSS loads developed in Chapter 2 and assuming a sludge volume index (SVI) of $120 \mathrm{~mL} / \mathrm{g}$, the existing Aeration Tank \#6 may need to be in service by 2023, assuming MM loads occur concurrent to peak flows. The operation of this fourth aeration tank will dilute the mixed liquor concentration to ensure that the three existing secondary clarifiers can provide adequate treatment.

# Exhibit 4 - Regionalization Planning Report 

REGIONALIZATION PLANNING REPORT FOR THE PARADISE SEWER PROJECT | CITY OF CHICO

## Impact of Sludge Retention Time on Facility Needs

The City currently sees significant energy savings by operating the aeration tanks under suboxic conditions (i.e. dissolved oxygen ranging from 0.5 to $1 \mathrm{mg} / \mathrm{L}$ ). The process has been optimized to operate under these conditions at an 11-day solids retention time (SRT) with the SRT and DON Master, which control aeration and wasting for the secondary process.

With all four existing aeration tanks and all three existing secondary clarifiers in service, assuming no change to the current SRT of 11 days in the near-term, the need for a new (fourth) secondary clarifier is projected by 2028. Reducing the SRT to 9 days shifts this need for a new fourth secondary clarifier back 2 years to 2030.

While a 9-day SRT is sufficient for meeting effluent ammonia targets, it's not certain if the same level of nutrient reduction can be achieved as with an 11-day SRT. Since maintaining an 11-day SRT will require more aeration tanks and secondary clarifiers at buildout (2057) than a 9-day SRT would require for the same level of treatment, the City is open to operation with a 9-day SRT in the future. Thus, alternatives evaluated for improving the secondary treatment process longterm use an SRT of 9 days, while near-term needs are evaluated based on the current SRT of 11 days. Options for secondary system upgrades to meet the projected flows and loads at an SRT of 9 day are discussed in more detail in Chapter 4 . In short, the WPCP will need 2-4 new secondary clarifiers and 2-3 new aeration tanks, depending on selected configuration. Refer to Table 3.5 for the estimated timeline that each structure will be needed.

Impact of Sludge Volume Index on Facility Needs
The timeline for required upgrades may shift if there is a significant increase in the plant's SVI, which could occur after transitioning to the Modified Ludzack-Ettinger (MLE) process by 2032 (discussed herein and in Chapter 5). Although the WPCP has consistently produced sludge with SVIs below $120 \mathrm{~mL} / \mathrm{g}$, transitioning an activated sludge process to the MLE process can sometimes result in poorer settling and higher SVIs. Observations conducted subsequent to that transition to MLE will better define the timing for more clarifier upgrades needed within the planning period.

Under projected peak flows, the secondary clarifiers would collectively have a total surface overflow rate between $720 \mathrm{gpd} / \mathrm{ft}^{2}$ (assuming 7 total secondary clarifiers) and 1,110 gpd/ft ${ }^{2}$ (assuming 5 total secondary clarifiers), depending on the configuration at buildout as discussed in Chapter 4. These surface overflow rates fall within commonly accepted design criteria ${ }^{6}$. The solids loading for both configurations was also confirmed to be within acceptable operating ranges using a state point analysis.

### 3.4.2.3 Regulatory-Driven Capacity Impacts

To meet the future anticipated total nitrogen (combined nitrate and nitrite) effluent limit of $<10$ $\mathrm{mg} / \mathrm{L}$, it is recommended that the aeration tanks be reconfigured for the MLE process. MLE is a very common nitrogen removal process. With this process, removal of $\mathrm{NH}_{3}$ occurs with similar operation as that currently used at the WPCP (long [7+ day] SRT and additional aeration to facilitate nitrification in the aerobic portions of the aeration tanks), but includes an anoxic zone to induce denitrification.

[^12]As mentioned previously, some nitrate removal is already being achieved through introduction of the RAS in the unaerated zones at the front of the aeration basins. To facilitate more nitrate removal, mixed liquor recycle (MLR) pumps will be added to increase the amount of nitrate returned to the unaerated zones at the front of the aeration tanks. With the current 2-pass wrap -around configuration, MLR pumping could be added in the common wall at the east end of the tanks, providing a relatively low-cost nutrient removal upgrade.

At a MLR ratio of 300 percent ( 3 times the influent flow to each tank is recycled back to the anoxic zones), upgraded Aeration Tank Nos. 3 through 6 can produce effluent with approximately $15 \mathrm{mg} / \mathrm{L}$ combined nitrate and nitrite at current demands. MLR rates above 300 percent provide diminishing returns in terms of nitrate removal.

Based on the process model (calibrated using the last full year of operational data from 2020) there is not enough soluble BOD (the carbon source for the bacteria) in the primary effluent to support denitrification to treatment levels below $10 \mathrm{mg} / \mathrm{L}$. To increase the soluble BOD and improve the denitrification capacity, a range of options are available:

- Increasing the MLR rate improves nitrate removal but very minimally.
- Increasing the anoxic volume to 50 percent of the total tanks volume, which can be accomplished with the addition of baffle walls, can achieve the required reduction but comes at the expense of reduced aerobic volume (necessary for BOD and $\mathrm{NH}_{3}$ removal) which decreases the ability of the system to adequately treat any significant short-term change of influent characteristics.
- Adding chemical "food" addition (e.g., methanol or acetate) directly to the process. This approach is typically a last resort (due to high capital and operational costs), but it is the best option in this case since it will minimize the number of aeration tanks that will be needed in the future.

A detailed wastewater characterization and refined plant process model (using dynamic analysis) is recommended during design of the secondary treatment expansion processes to confirm sizing for the required methanol feed facility.

### 3.4.2.4 Aeration Capacity

Three high-speed turbo blowers currently supply the aeration system air at the WPCP. One blower has a nameplate capacity of 4,500 standard cubic feet per minute (scfm) at a pressure of 9.1 pounds per square inch gauge (psig), and the other two blowers are dual core and each have a nameplate capacity of $7,800 \mathrm{scfm}(3,900 \mathrm{scfm}$ per core) at 9.5 psig . Air requirements in nitrifying activated sludge mode (current operation) at projected AA and MM loads are estimated to range from 13,700 to 14,600 scfm, and 18,300 to 19,500 scfm, respectively, depending on the treatment plant configuration and operation at buildout.

The existing system has a firm capacity of $15,600 \mathrm{scfm}$, with a blower nameplate capacity of $20,100 \mathrm{scfm}$, and is sufficient for projected AA loads but not for MM loads. Additionally, actual performance of the dual core blowers has not yet been established relative to the rated capacity and the remaining blower did not match the rated capacity.

Additional aeration capacity will be needed for the modified build-out condition.

### 3.4.2.5 Plant 2 RAS and WAS Pumping

RAS Pump Station No. 2 consists of four horizontal mixed-flow centrifugal pumps, each with a capacity of $2,100 \mathrm{gpm}$ at 24 feet of head. A RAS pump is dedicated to each of the three secondary clarifiers, and a fourth pump is configured for standby use by any of the clarifiers. A total of 9 mgd firm RAS pumping capacity is provided by RAS Pump Station No. 2.

The waste activated sludge (WAS) pumps are also located at the RAS Pump Station No. 2. The WAS pumps consist of two progressive cavity pumps, each with a capacity of 150 gpm at 35 feet of head.

These systems will not provide sufficient firm capacity for projected loads and treatment objectives. At least 4 additional RAS pumps and 1 additional WAS pump will be required to provide firm capacity for projected RAS and WAS flows at the projected MM flows and loads; however, it is most likely that 1 additional RAS pump will be provided for each new secondary clarifier that is built and that 1 additional WAS pump will be provided for every 2 new secondary clarifiers that are built, which would also provide sufficient capacity.

### 3.4.2.6 Summary of Secondary Treatment System Needs

The secondary treatment facilities will require significant improvements to adequately treat the projected flows and loads through 2057. This includes a new secondary clarifier by 2028, and up to three more secondary clarifiers and three more aeration tanks by 2057. Additional blowers and RAS/WAS pumps will also be needed to support the new aeration tanks and clarifiers, plus ancillary facilities.

To address regulatory requirements, MLE upgrades and a supplemental carbon facility will be needed by 2032.

### 3.4.3 Disinfection

The existing plant effluent disinfection system uses liquid sodium hypochlorite solution (SHS) to disinfect the secondary effluent, and liquid sodium bisulfite solution (SBS) to dechlorinate the disinfected effluent prior to discharge.

### 3.4.3.1 Sodium Hypochlorite Feed System

SHS is stored in two 9,500-gallon storage tanks located at the Chemical Building. The Chemical Building contains four metering pumps for distribution of SHS throughout the plant; two that are rated at 150 gallons per hour (gph) and two that are rated at 60 gph . The 150 gph pumps delivers SHS for chlorination of the effluent at Chlorine Contact Basin Nos. 3 and 4, and the 60 gph pumps deliver SHS to the other dosing points within the plant (with duty/standby configuration for both pumping systems).

The SHS feed system does not has enough storage and pumping capacity to meet the plant demands at projected AA and peak flows and it is recommended additional SHS pumps and storage be installed at the same time the new CCB described below is constructed.

### 3.4.3.2 Disinfection Contact Facilities

Chlorine Contact Basin Nos. 3 and 4 each have a volume of 257,000 gallons. In normal operation, the basins are operated in parallel. Each of the basins can be taken out of service for cleaning and other maintenance purposes.

The existing facilities are not sufficient to provide a 30-minute hydraulic residence time (HRT) at the projected peak flow of 39.6 mgd nor are they sufficient to provide a 60 -minute chlorine contact (CT) time at the projected AA flow of 17.1 mgd . An additional CCB, equal in size to the two existing CCBs will be required by 2033 to provide a sufficient HRT and a sufficient CTtime for the projected flows.

### 3.4.3.3 Dechlorination Facilities

The SBS feed system consists of two 6,500-gallon liquid SBS storage tanks, two 80 gph metering pumps, two chlorine residual analyzers, and ancillary equipment.

The Outfall Box gates are hydraulically actuated and are connected to the plant SCADA system to allow flow to the river to be interrupted upon detection of a positive chlorine residual. The gate controlling pond discharge is also integrated within the hydraulic controls, allowing for automated diversion. Modification of the Outfall Box will be needed to meet the projected peak flow condition.

The SBS feed system does not has enough storage and pumping capacity to meet the plant demands at projected AA and peak flows and it is recommended additional SBS pumps and storage be installed at the same time the new CCB described above is constructed.

### 3.4.3.4 Summary of Disinfection and Dechlorination Facility Needs

The existing chlorine contact basins are not adequately sized for projected AA and peak flows, and the existing chlorination and dechlorination chemical storage and delivery facilities are also not adequately sized for the projected flows.

To provide adequate disinfection and dechlorination for peak flows through 2057, an expansion of the disinfection and dechlorination facilities will likely be needed by 2033. These include one additional chlorine contact basin, increased SHS and SBS storage and pumping capacity, and modification of the Outfall Box.

As discussed in Chapter 5, it is anticipated that the City will be required to implement alternate disinfection (non-chlorination) by 2047. The City may consider expedited implementation of the alternate disinfection facilities to avoid sunk costs associated with construction of the needed disinfection system upgrade in 2033.

### 3.4.4 Solids Handling

Existing on-site solids handling systems at the plant are evaluated in the following subsections.

### 3.4.4.1 Primary Solids Thickening

Solids removed from the primary clarifiers were previously thickened in a single 55-foot diameter gravity thickener converted from a primary clarifier. The generous sizing was because thistank was initially used as a primary clarifier and then used as a thickener for both primary and secondary sludge. This practice was discontinued when the first dissolved air flotation thickener (DAFT) was constructed to separately thicken WAS.

The recent conversion of the Primary Clarifier No. 1 and 2 sludge pumps to positive displacement, double disc diaphragm pumps has allowed WPCP staff to experiment with sludge thickening directly in all of the primary clarifiers. Previously this capability was only possible in Primary Clarifier No. 3. To date the WPCP has had positive results with this change and the gravity thickener process is currently not in use.

### 3.4.4.2 WAS Thickening

WAS is presently thickened separately from primary sludge prior to stabilization in the anaerobic digesters. Dual 25 -foot diameter dissolved air flotation thickeners (DAFTs) are provided for this purpose. Operation of the two existing DAFTs provides sufficient capacity to thicken WAS at the projected MM flows of 21.7 mgd . In the event that one DAFT is out of service, the remaining unit could be operated at a level exceeding its design capacity.

WAS pumping can be interrupted for short term periods since it is not critical to waste secondary solids continuously so long as the appropriate waste volume is maintained over time. The presence of a second unit provides additional reliability for the WAS thickening process. One unit may be out of service for maintenance reasons without adversely affecting the process and can accommodate longer shutdown periods, if required.

The existing system provides adequate capacity for the projected AA and MM loads.

### 3.4.4.3 Anaerobic Digestion

Solids generated from the primary sedimentation and secondary treatment processes are stabilized in three 70 -foot diameter anaerobic digesters (Anaerobic Digester Nos. 1, 2, and 4) having a combined volume of 277,500 cubic feet (2,077,500 gallons). The sludge is heated for Anaerobic Digester Nos. 1, 2, with pumped circulation of the digester contents through external heat exchangers. Externally mounted pumps provide mixing within the digesters.

The floating cover digester was converted to Anaerobic Digester No. 3 and serves primarily as a sludge storage/holding tank for the solids dewatering process. This tank is a 60-foot diameter tank with a total effective storage of 32,500 cubic feet ( 243,000 gallons). This volume provides approximately 1.5 days sludge storage at a plant influent flow rate of 17.1 mgd . Anaerobic Digester No. 3 could also be heated and used as a primary digester if Digester No. 1, 2, or 4 is out of service. Anaerobic Digester No. 3 has a gas mixing system and recirculation pump discharge nozzles to keep the contents of the digester mixed before the dewatering process.

At the projected sludge generation rate, Anaerobic Digester Nos. 1, 2, and 4 are capable of providing a theoretical detention time of about 15.4 days under MM loading conditions. A minimum detention time of 15 days at MM loadings is required for the solids to meet federal EPA requirements as a Process to Significantly Reduce Pathogens (PSRP). Compliance with the PSRP requirements is essential to provide the City with the stabilization needed for the biosolids to be classified as Class B, as required for land application.

The existing system provides adequate capacity for the projected AA and MM loads.

### 3.4.4.4 Solids Dewatering

Two separate methods of solids dewatering are available at the WPCP. Digested sludge from Anaerobic Digester No. 3 can be fed to the centrifuge for solids dewatering. The centrifuge mechanically dewaters the digested sludge through high-speed rotation, concentrating the solids into a "cake." The centrifuge utilizes polymer to flocculate the solids prior to dewatering. Following centrifuge dewatering, the solids can either be directly off-hauled, or stored on site for future disposal. The WPCP currently dewaters all solids via centrifuge and has them off-hauled directly through a contract with Synagro.

Alternatively, digested sludge may be directly transferred to the drying beds located to the north of the WPCP unit processes. These drying beds may be also used for further drying of the cake
solids from the centrifuge, or digested sludge can be transferred to the beds directly from the digesters. After completion of solar drying, the solids can be stockpiled in two designated areas to await off haul.

The existing centrifuges were designed to dewater digested sludge from the sludge storage tank (Anaerobic Digester No. 3) for 45 hours per week at 18 mgd MM design conditions. However, even at an MM flow of 21.7 mgd , the centrifuge firm capacity will likely be sufficient to keep the centrifuge run time below 31 hours per week. Under this operational strategy and at a projected MM flow of 21.7 mgd in 2057, the solids dewatering process has adequate capacity.

### 3.4.4.5 Digester Gas

Digester gas is a usable byproduct produced continually by the anaerobic digesters. Digester gas is utilized in two areas: the boilers of the integrated-type sludge heaters and the cogeneration system. The demand for gas by the boilers and cogeneration system is intermittent and variable.

There are presently no facilities at the plant intended for the storage of gas produced by the anaerobic digestion process. A very limited amount of storage is available in the space between the digester domes on the fixed-roof digesters and the surface of the digester contents. Once this space is filled and the gas demand is satisfied, excess gas is flared in the waste gas burner. The cogeneration feasibility study determined that digester gas storage did not provide an economic benefit to operate in a peak shaving mode. This analysis is not repeated herein.

### 3.4.4.6 Summary of Solids Handling Facility Needs

The solids handling facilities have adequate capacity to support project flows and loads discussed herein.

### 3.5 Summary of WPCP Capacity Limitations

The WPCP does not have the capacity for adequate treatment of the currently projected flows and loads through the planning period ending in 2057.

A summary of capacity-driven facility needs is included in Table 3.5, including the estimated timeline for implementation of each improvement.

Table 3.5 Summary of Capacity-Driven Facility Needs

-This Page Intentionally Left Blank-

## Chapter 4

## CAPACITY-DRIVEN FACILITY NEEDS

Expansion alternatives for the WPCP are evaluated herein to achieve interim and final capacity needed for the facility given updated flow and load projections presented in Chapter 2 and identified capacity limitations identified in Chapter 3.

### 4.1 Approach

Processes and areas that will require capacity expansion and/or upgrade were identified in Chapter 3. Recommended improvements are discussed by WPCP area herein, with a summary of probable implementation schedule and conceptual level project cost estimates for each improvement.

### 4.2 Headworks

A third mechanical barscreen will be required by 2054 to adequately handle the projected peak flows. The following improvements are needed as part of the barscreen project:

- Demolition of existing manual bar rack.
- Installation of new mechanical barscreen.
- Extension of existing screenings conveyor ${ }^{1}$.
- Ancillary structural, electrical, and instrumentation improvements.

The estimated costs for the new bar screen are $\$ 500,000$ (construction cost) and $\$ 600,000^{2}$ (project cost), both in December 2021 dollars. This cost is carried through in Chapter 1 and 7 summary tables with forecasted implementation by 2054.

### 4.3 Primary Clarification

A fourth primary clarifier will need to be constructed by 2044 to maintain acceptable overflow rates in the primary clarifiers (Figure 4.1).

The existing primary sludge and scum pumping systems provide sufficient capacity for the projected loads and advanced treatment but will need to be reconfigured for use with the new primary clarifier.

[^13]-This Page Intentionally Left Blank-

Exhibit 4 - Regionalization Planning Report


Figure 4.1 Primary Clarifier \#4
-This Page Intentionally Left Blank-

The following improvements are needed as part of the primary clarifier project:

- Primary clarifier.
- Reconfiguration of existing sludge and scum pumping systems3.
- Ancillary civil, structural, electrical, and instrumentation improvements.

The estimated costs for the primary clarifier project are $\$ 3.7$ million (construction cost) and $\$ 5.0$ million (project cost), both in December 2021 dollars. This cost is carried through in Chapter 1 and 7 summary tables with forecasted implementation by 2044.

### 4.4 Primary Effluent Pumping

Primary Effluent Lift Stations improvements will be required by 2038 to increase the hydraulic capacity of the system for anticipated peak flows. The following improvements are needed to upgrade the Primary Effluent Lift Station project for the build-out flows:

- Parallel force main between the primary effluent lift station and the Plant 2 aeration tanks (by 2038).
- Primary Effluent Lift Station improvements (by 2054):
- Wet well expansion.
- Additional primary effluent pump.
- Ancillary mechanical, electrical, and instrumentation improvements.

The estimated construction costs for the improvements associated with the Primary Effluent Parallel Force Main and Lift Station Improvement Projects are $\$ 800 \mathrm{~K}$ and $\$ 1.7$ million, respectively, with estimated project costs totaling $\$ 1.1$ million and $\$ 2.1$ million, respectively.

All costs (all in December 2021 dollars) are carried through in Chapter 1 and 7 summary tables with forecasted need as discussed above.

### 4.5 Secondary Treatment Facilities

The secondary treatment facilities will require significant improvements to provide adequate treatment through 2057. Near- and long-term improvement recommendations are summarized in Table 4.1 and individual secondary treatment process components are discussed herein.

[^14]Table 4.1 Secondary Treatment Facility Improvements

| Existing WPCP (2022) | Near-Term Improvements $(<2030)$ | Long-Term Improvements $(<2057)$ |
| :---: | :---: | :---: |
|  |  | MLE Upgrades |
|  |  | Supplemental Carbon |
| 4 Total Aeration Tanks |  | 2 New Aeration Tanks (6 total) |
| 3 Total Secondary Clarifiers | 1 New Secondary Clarifier (4 total) | 3 New Secondary Clarifiers (6 total) ${ }^{(1)}$ |
|  |  | Blower Upgrades |
|  | RAS/WAS Pumping Upgrades | RAS/WAS Pumping Upgrades |

Notes:
(1) Based on Secondary Treatment Expansion Option 3 presented herein. Includes one secondary clarifier matching existing unit sizing (100-ft diameter) and two larger (125-ft diameter) clarifiers.

### 4.5.1 Near-Term Improvements

An additional secondary clarifier will be needed by 2028 at the current WPCP operation with 11day SRT. The addition of a fourth secondary clarifier will increase the total volume of secondary clarifiers from 2.47 MG to 3.30 MG (Figure 4.2).

Exhibit 4 - Regionalization Planning Report


Figure 4.2 Fourth Secondary Clarifier
-This Page Intentionally Left Blank-

The following improvements are needed as part of the Secondary Clarifier project:

- 100-foot diameter Secondary Clarifier with 14-ft side water depth.
- Dedicated RAS and WAS pumps (installed at existing RAS/WAS pump station).
- Ancillary civil, structural, electrical, and instrumentation improvements.

The estimated costs for the improvements associated with the 2028 Secondary Treatment improvements is $\$ 8.0$ million (construction cost) and $\$ 10.7$ million (project cost), both in December 2021 dollars. This cost is carried through in Chapter 1 and 7 summary tables with a forecasted need for a fourth secondary clarifier by 2028.

### 4.5.2 Options for Secondary Treatment Expansion

To provide adequate secondary treatment capacity through 2057, new aeration tanks and secondary clarifiers will be needed, with quantities of each contingent on SRT operation (Chapter 3) and City preference for facility layout. Following discussion with City staff, a 9-day SRT was selected for long-term planning and three options were identified:

- Option 1: Two new aeration tanks ( 6 total) and 4 new secondary clarifiers ( 7 total).
- Option 2: Three new aeration tanks (7 total) and 2 new secondary clarifiers (5total).
- Option 3: Two new aeration tanks (6 total) and 3 new secondary clarifiers (of differing sizes).

For all options, the aeration tanks (new and existing) will need to be modified with MLE and supplemental carbon upgrades (discussed in Chapters 3 and 5).

### 4.5.2.1 Option 1

A potential layout for Option 1 is included below as Figure 4.3.
-This Page Intentionally Left Blank-


Figure 4.3 Secondary Expansion (Option 1)
-This Page Intentionally Left Blank-

Based on a long-term plan to adjust facility operation to meet a 9-day SRT, the following improvements will be needed for the Option 1 secondary expansion alternative:

- 2 new aeration tanks (rectangular, 2.2 MG each with MLE improvements).
- 3 additional secondary clarifiers ( 100 ft circular, 14 ft SWD).
- RAS/WAS pumping facilities (4 RAS and 2 WAS pumps).
- RAS/WAS electrical building.
- New Blower and electrical room (3 blowers).
- Standby generator.
- Ancillary civil, structural, electrical, and instrumentation improvements.

Project costs estimates were prepared for this option based on component costs developed to correspond with staged construction (i.e. as facilities are needed).

Refer to Table 4.2 for a summary of component costs associated with Option 1.
Table 4.2 Option 1 Component Costs

| Treatment Unit | \# Required | Component Project <br> Cost | Total System Project <br> Cost |
| :--- | :---: | :---: | :---: |
| Secondary Clarifier ${ }^{(1)}$ | $3^{(2)}$ | $\$ 10.7 \mathrm{M}$ | $\$ 32.1 \mathrm{M}$ |
| Aeration Tank ${ }^{(3)}$ | 2 | $\$ 14.5 \mathrm{M}$ | $\$ 29.0 \mathrm{M}$ |
| MLE Upgrades ${ }^{(4)}$ | 2 | $\$ 1.1 \mathrm{M}$ | $\$ 2.2 \mathrm{M}$ |
| RAS/WAS Pump <br> Station and Electrical <br> Building ${ }^{(5)}$ | 1 | $\$ 1.8 \mathrm{M}$ | $\$ 1.8 \mathrm{M}$ |
| Blower and Electrical <br> Room | $(6)$ | $\$ 6.3 \mathrm{M}$ | $\$ 6.3 \mathrm{M}$ |
| Standby Generator | 1 | $\$ 1.5 \mathrm{M}$ | $\$ 1.5 \mathrm{M}$ |
| Southern Pond <br> Improvements for <br> Secondary Expansion | 1 | $\$ 0.9 \mathrm{M}$ | $\$ 0.9 \mathrm{M}$ |

Estimated Project Cost ${ }^{(7)}$
$\$ 73.8 \mathrm{M}^{(8)}$

## Notes:

(1) 100 -ft diameter with 14 -ft side water depth.
(2) Cost for 3 secondary clarifiers included here, with cost for the fourth clarifier discussed separately (as near-term improvement in Section 4.5.1.
(3) 2.2 MG capacity matching layout of existing aeration tanks.
(4) Cost presented as a ratio of the costs presented in Chapter 5 for existing basin retrofit.
(5) Includes four (4) RAS pump and three (3) WAS pumps, with similar layout as existing RAS/WAS pump station facilities.
(6) Includes three (3) blowers, with similar layout as existing blower building facilities.
(7) In December 2021 dollars (ENR CCI 12482).
(8) Actual project cost may differ if constructed as one project.

This option is expensive due to the number of structures required.
4.5.2.2 Option 2

A potential layout for Option 2 is included below as Figure 4.4.
-This Page Intentionally Left Blank-


Figure 4.4 Secondary Expansion (Option 2)
-This Page Intentionally Left Blank-

Based on a long-term plan to adjust facility operation to meet a 9-day SRT, the following improvements will be needed for the Option 2 secondary expansion alternative:

- 3 new aeration tanks (rectangular, 2.2 MG each with MLE improvements).
- 1 additional secondary clarifier ( 100 ft circular, 14 ft SWD).
- RAS/WAS pumping facilities (2 RAS and 2 WAS pumps).
- RAS/WAS electrical building.
- New Blower and electrical room (4 blowers).
- Standby generator.
- Ancillary civil, structural, electrical, and instrumentation improvements.

Project costs estimates were prepared for this option based on component costs developed to correspond with staged construction (i.e. as facilities are needed).

Refer to Table 4.3 for a summary of component costs associated with Option 2.
Table 4.3 Option 2 Component Costs

| Treatment Unit | \# Required | Component Project <br> Cost | Total System Project <br> Cost |
| :--- | :---: | :---: | :---: |
| Secondary Clarifier ${ }^{(1)}$ | $1^{(2)}$ | $\$ 10.7 \mathrm{M}$ | $\$ 10.7 \mathrm{M}$ |
| Aeration Tank ${ }^{(3)}$ | 3 | $\$ 14.5 \mathrm{M}$ | $\$ 43.5 \mathrm{M}$ |
| MLE Upgrades ${ }^{(4)}$ | 3 | $\$ 1.1 \mathrm{M}$ | $\$ 3.3 \mathrm{M}$ |
| RAS/WAS Pump <br> Station and Electrical <br> Building ${ }^{(5)}$ | 1 | $\$ 1.4 \mathrm{M}$ | $\$ 1.4 \mathrm{M}$ |
| Blower and Electrical <br> Room | $(6)$ | $\$ 7.2 \mathrm{M}$ | $\$ 7.2 \mathrm{M}$ |
| Standby Generator | 1 | $\$ 1.5 \mathrm{M}$ | $\$ 1.5 \mathrm{M}$ |
| Southern Pond <br> Improvements for <br> Secondary Expansion | 1 | $\$ 0.9 \mathrm{M}$ | $\$ 0.9 \mathrm{M}$ |

Estimated Project Cost ${ }^{(7)}$
$\$ 68.5 \mathrm{M}^{(8)}$

## Notes:

(1) 100-ft diameter with $14-\mathrm{ft}$ side water depth.
(2) Cost for 1 secondary clarifier included here, with cost for the fourth clarifier discussed separately (as near-term improvement in Section 4.5.1.
(3) 2.2 MG capacity with MLE upgrades incorporated at time of construction.
(4) Cost presented as a ratio of the costs presented in Chapter 5 for existing basin retrofit.
(5) Includes two (2) RAS pump and two (2) WAS pumps, with similar layout as existing RAS/WAS pump station facilities.
(6) Includes four (4) blowers, with similar layout as existing blower building facilities.
(7) In December 2021 dollars (ENR CCI12482).
(8) Actual project cost may differ if constructed as one project.

This option also presents a flow-split challenge that will be difficult to overcome and has high operational (and life cycle) costs compared to Option 1.

### 4.5.2.3 Option 3

A potential layout for Option 3 is included below as Figure 4.5.
-This Page Intentionally Left Blank-


Figure 4.5 Secondary Expansion (Option 3)
-This Page Intentionally Left Blank-

Based on a long-term plan to adjust facility operation to meet a 9-day SRT, the following improvements will be needed for the Option 3 secondary expansion alternative:

- 2 new aeration tanks (rectangular, 2.2 MG each with MLE improvements).
- 2 additional secondary clarifiers ( 125 ft circular, 14 ft SWD).
- RAS/WAS pumping facilities (3 RAS and 2 WAS pumps).
- RAS/WAS electrical building.
- New Blower and electrical room (3 blowers).
- Standby generator.
- Ancillary civil, structural, electrical, and instrumentation improvements.

Project costs estimates were prepared for this option based on component costs developed to correspond with staged construction (i.e. as facilities are needed).

Refer to Table 4.4 for a summary of component costs associated with Option 3.
Table 4.4 Option 3 Component Costs

| Treatment Unit | \# Required | Component Project <br> Cost | Total System Project <br> Cost |
| :--- | :---: | :---: | :---: |
| Secondary Clarifier ${ }^{(1)}$ | $2^{(2)}$ | $\$ 13.4 \mathrm{M}$ | $\$ 26.8 \mathrm{M}$ |
| Aeration Tank ${ }^{(3)}$ | 2 | $\$ 14.5 \mathrm{M}$ | $\$ 29.0 \mathrm{M}$ |
| MLE Upgrades ${ }^{(4)}$ | 2 | $\$ 1.1 \mathrm{M}$ | $\$ 2.2 \mathrm{M}$ |
| RAS/WAS Pump <br> Station and Electrical <br> Building ${ }^{(5)}$ | 1 | $\$ 1.6 \mathrm{M}$ | $\$ 1.6 \mathrm{M}$ |
| Blower and Electrical <br> Room | $(6)$ | $\$ 6.3 \mathrm{M}$ | $\$ 6.3 \mathrm{M}$ |
| Standby Generator | 1 | $\$ 1.5 \mathrm{M}$ | $\$ 1.5 \mathrm{M}$ |
| Southern Pond <br> Improvements for <br> Secondary Expansion | 1 | $\$ 0.9 \mathrm{M}$ | $\$ 0.9 \mathrm{M}$ |

Estimated Project Cost ${ }^{(7)}$
$\$ 68.3 \mathrm{M}^{(8)}$
Notes:
(1) 125 -ft diameter each with 14 -ft side water depth.
(2) Cost for 2 secondary clarifiers included here, with cost for the fourth clarifier discussed separately (as near-term improvement in Section 4.5.1).
(3) 2.2 MG capacity with MLE upgrades incorporated at time of construction.
(4) Cost presented as a ratio of the costs presented in Chapter 5 for existing basin retrofit.
(5) Includes two (2) RAS pump and two (2) WAS pumps, with similar layout as existing RAS/WAS pump station facilities.
(6) Includes three (3) blowers, with similar layout as existing blower building facilities.
(7) In December 2021 dollars (ENR CCI12482).
(8) Actual project cost may differ if constructed as one project.

This option has an approximate capital cost estimate equal to Option 2 (both significantly less than Option 1) and low operational costs compared to Option 2. Additionally, this layout can be configured to operate in parallel with the existing facility (operating as "Plant 3"), thus enhancing flow split.

Option 3 provides the most benefit to the City at the least cost.
The projected timeline for implementation and project costs for the various facilities that make up Option 3 are summarized in Table 4.4 (Section 4.7) and carried through in Chapter 1 and 7 summary tables.

### 4.6 Disinfection and Dechlorination

As discussed in Chapter 3, additional disinfection and dechlorination facilities are required by 2033 to adequately treat the projected flows. The location/layout for a new chlorine contact basin, which will be required by 2033 to treat peak flow conditions, is included below as Figure 4.6.

Exhibit 4 - Regionalization Planning Report


Figure 4.6 Chlorine Contact Basin
-This Page Intentionally Left Blank-

The following improvements are needed as part of the Disinfection Facilities project:

- 1 new chlorine contact basin (CCB).
- CCB inlet basin modifications.
- Additional sodium hypochlorite (SHS) storage and feed pumps.
- Additional sodium bisulfite (SBS) storage and feed pumps.
- Outfall box improvements.
- Ancillary civil, structural, electrical, and instrumentation improvements.

A summary of estimated project component costs is included below as Table 4.5.
Table 4.5 Disinfection System Improvement Costs


These costs are carried through in Chapter 1 and 7 summary tables with forecasted implementation by 2033.

As discussed in Chapter 5, it is anticipated that the City will be required to implement alternate disinfection (non-chlorination) by 2047. The City may consider expedited implementation of the alternate disinfection facilities to avoid sunk costs associated with construction of the needed disinfection system upgrade in 2033.

### 4.6.1 Solids Handling

As discussed in chapter 3, the WPCP solids handling facilities have adequate capacity to support projected flows and loads discussed herein. No project costs are carried through for these facilities.

### 4.7 Summary of Capacity-Driven Facility Needs

Table 4.6 includes a summary of recommended projects based on anticipated capacity-driven facility needs through 2057, along with predicted timelines for implementation of each and planning level construction and project cost estimates (presented in December 2021 dollars).

The total capacity-driven project cost estimate of $\$ 94.9 \mathrm{M}$ is escalated to December 2026 dollars ( $\$ 118.3 \mathrm{M}$ ) for the connection payment calculation option presented in Chapter 1 with use of a projected average annual interest rate of 4.5 percent.

Table 4.6 Summary of Capacity-Driven Facility Needs

| Projected Timeline for Implementation | Project Description | Estimated Construction Cost ${ }^{(1)(2)}$ | Estimated Project Cost ${ }^{(1)(3)}$ |
| :---: | :---: | :---: | :---: |
| 2028 | Secondary Clarifier \#6 ${ }^{(4)}$ (fourth clarifier in Plant 2) | \$8,000,000 | \$10,700,000 |
| 2032 | Supplemental Carbon Project | \$300,000 | \$400,000 |
| 2033 | Chlorine Contact Basin | \$4,100,000 | \$5,100,000 |
| 2033 | Chemical Storage and Feed Facility Improvements (SHS and SBS) | \$1,300,000 | \$1,600,000 |
| 2036 | Southern Pond Improvements for Secondary Expansion | \$700,000 | \$900,000 |
| 2036 | Secondary Clarifier \#7 ${ }^{(5)}$ (fifth clarifier in Plant 2) | \$10,000,000 | \$13,400,000 |
| 2036 | RAS/WAS Pump Station and Electrical Building ${ }^{(6)}$ | \$1,300,000 | \$1,600,0000 |
| 2038 | Parallel Force Main Improvements | \$800,000 | \$1,100,000 |
| 2039 | Secondary Clarifier \#8 (sixth clarifier in Plant 2) | \$10,000,000 | \$13,400,000 |
| 2044 | Aeration Tank \# $5^{(7)}$ | \$11,700,000 | \$15,600,000 |
| 2044 | Blower and Electrical Building ${ }^{(6)}$ | \$5,000,000 | \$6,300,000 |
| 2045 | Primary Clarifier \#4 | \$3,700,000 | \$5,000,000 |
| 2053 | Aeration Tank \#6 ${ }^{(7)}$ | \$11,700,000 | \$15,600,000 |
| 2054 | Primary Effluent Lift Station Improvements | \$1,700,000 | \$2,100,000 |
| 2054 | Bar Screen \#3 | \$500,000 | \$600,000 |
|  | Total Required Capital Investment | \$72,000,000 | \$94,900,000 |

Notes:
(1) Costs are in December 2021 dollars based on ENR-CCICCI of 12482.
(2) Includes estimating contingency of $40 \%$ applied to total direct cost, general conditions and contractor overhead and profit contingencies at $18 \%$ of total direct cost (each), and local sales tax of $7.25 \%$ applied to half of the total direct cost.
(3) Includes project cost factor of $35 \%$ for legal, administration, permitting, design, and engineering services during construction.
(4) 100 -foot diameter secondary clarifier.
(5) 125 -foot diameter secondary clarifier.
(6) Based on Secondary Treatment Expansion Option 3 layout (Chapter 4).
(7) With denitrification improvements (MLE).

## Chapter 5

## REGULATORY-DRIVEN FACILITY NEEDS

Waste discharge requirements (WDRs) issued for the WPCP reflect both state and federal laws, regulations, and policies related to water quality pollution. As these laws, regulations, and policies become more stringent over time, the need for more advanced wastewater treatment at the WPCP will increase. This chapter includes a summary of facility needs that could be required to comply with these changing regulations, referred to herein as "regulatory-driven facility needs".

### 5.1 Existing Discharge Requirements

The effluent discharge requirements for the WPCP are issued by the Regional Water Quality Control Board (RWQCB), Central Valley Region in California. The RWOCB is the regional authority of the State Water Resources Control Board (SWRCB). In addition to the state laws and regulations, the effluent discharge requirements also incorporate federal laws and regulations. This is because the federal Environmental Protection Agency (EPA) has delegated the authority for issuing federal National Pollutant Discharge Elimination System (NPDES) permits to the SWRCB.

The current WDRs for the WPCP are established in Order No. R5-2016-0023 (NPDES No. CA0079081). The Order includes two permitted discharge locations:

- D-001: Discharge to the Sacramento River (surface water discharge).
- D-002: Discharge to the underlying groundwater (land discharge).

Current effluent limitations for discharge to the Sacramento River are summarized in Table 5.1.

Table 5.1
Current Effluent Limitations for Effluent Discharge to the Sacramento River

| Parameter | Units | Average <br> Monthly | Average <br> Weekly | Maximum Daily | Instantaneous Minimum | Instantaneous Maximum |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Biochemical Oxygen Demand ( $\mathrm{BOD}_{5}$ ) (5-day @ 20 degrees Celsius) | $\mathrm{mg} / \mathrm{L}$ | 30 | 45 | 90 | - | - |
|  | $\mathrm{lbs} / \mathrm{day}(1)$ | 3,002 | 4,504 | 9,007 | - | - |
| TSS | mg/L | 30 | 45 | 90 | - | - |
|  | $\mathrm{lbs} / \mathrm{day}(1)$ | 3,002 | 4,504 | 9,007 | - | - |
| pH | standard units | - | - | - | 6.0 | 8.5 |
| Ammonia Nitrogen, Total (as N) | $\mathrm{mg} / \mathrm{L}$ | 8.2 | 17.6 | - | - | - |
|  | $\mathrm{lbs} / \mathrm{day}(1)$ | 821 | 1,761 | - | - | - |
| Copper, Total Recoverable | $\mu \mathrm{g} / \mathrm{L}$ | 15 | - | 20 | - | - |
| Chlorodibromomethane | $\mu \mathrm{g} / \mathrm{L}$ | 17.2 | - | 34 | - | - |
| Dichlorobromomethane | $\mu \mathrm{g} / \mathrm{L}$ | 25.2 | - | 43 | - | - |
| Nitrate Plus Nitrite (as N) | $\mathrm{mg} / \mathrm{L}$ | 60 | 104 | - | - | - |
| Notes: <br> (1) Based on design dry weather flow of 12 mgd . <br> (2) Abbreviations $-\mathrm{mg} / \mathrm{L}=$ milligrams per liter. |  |  |  |  |  |  |

Order No. R5-2016-0023 also includes the following effluent discharge requirements for discharges to the Sacramento River:

- BOD and TSS: average monthly percent removal shall be no less than 85 percent for each.
- Toxicity: survival of aquatic organisms in 96-hour acute whole effluent toxicity bioassays shall be no less than 70 percent (minimum for any one bioassay) and 90 percent (median for any three consecutive bioassays). The Order also includes a numeric toxicity monitoring trigger for chronic whole effluent toxicity of > 10 TUc (where TUc = 100/NOEC [no observed effect concentration]).
- Total residual chlorine: shall not exceed $0.011 \mathrm{mg} / \mathrm{L}$ (4-day average) and $0.019 \mathrm{mg} / \mathrm{L}$ (1-hour average).
- Total coliform organisms: shall not exceed 23 most probable number (MPN) per 100 milliliter (mL) (7-day median) and $240 \mathrm{MPN} / 100 \mathrm{~mL}$ (more than once in any 30-day period).
- Combined chlorpyrifos and diazinon concentration:The Order specifies that the combined concentration for chlorpyrifos and diazinon shall not exceed $1.0 \mu \mathrm{~g} / \mathrm{L}$ as a weekly or monthly average concentration in the discharged effluent.

Future limitations for effluent discharge to the facility's ponds (Land Discharge Specifications) are summarized in Table 5.2. These effluent limitations were scheduled to take effect on May 30, 2021.

Table 5.2 Future Effluent Limitations for Land Discharge

| Parameter | Units | Average Monthly | Average Weekly | Daily Maximum |
| :---: | :---: | :---: | :---: | :---: |
| $\mathrm{BOD}_{5}$ <br> (5-day @ 20 deg. Celsius) | mg/L | 30 | 45 | - |
|  | $\mathrm{lbs} / \mathrm{day}^{(1)}$ | 626 | 939 | - |
| TSS | mg/L | 30 | 45 | - |
|  | $\mathrm{lbs} / \mathrm{day}^{(1)}$ | 626 | 938 | - |
| Total Coliform Organisms | MPN/100 mL | - | $23{ }^{(2)}$ | $240^{(3)}$ |
| Notes: |  |  |  |  |
| (1) Based upon an average month <br> (2) Based upon a 7-day median co | flow of 2.5 mgd . ntration. |  |  |  |
| (3) Shall not be exceeded more th | once in any 30-day |  |  |  |

### 5.1.1 Status of NPDES Permit Order

Order No. R5-2016-0023 expired on May 31, 2021 but has been administratively extended by the Regional Water Quality Control Board (RWQCB) as they draft a renewed Order for the WPCP in parallel with the development of this report.

### 5.2 Previous Projection of Regulatory-Driven Facility Needs at the WPCP

The WPCP Strategic Planning Report ${ }^{1}$ included a detailed summary of existing WDRs for the WPCP; a listing of state and federal requirements applicable to the WPCP with analysis of how these requirements may change over time based on historical and ongoing activities; and an analysis of probable future effluent limits. Probable future effluent limitations outlined in the WPCP Strategic Planning Report ${ }^{2}$ are repeated here as Table 5.3 for reference.

[^15]Table 5.3 Summary of Probable Future Effluent Limitations

| Parameter | Unit | Probable Effluent Limit | Averaging Period ${ }^{(1)}$ | Proposed Treatment |
| :--- | :---: | :---: | :---: | :---: |
| $\mathrm{BOD}_{5}$ (5-day @ $20^{\circ} \mathrm{C}$ ) | $\mathrm{mg} / \mathrm{L}$ | $10 / 15 / 30$ | Monthly/Weekly/Daily | Tertiary Filtration |
| TSS | $\mathrm{mg} / \mathrm{L}$ | $10 / 15 / 30$ | Monthly/Weekly/Daily | Tertiary Filtration |
| pH | standard units | $6.0 / 8.5$ | Instantaneous Minimum/Maximum |  |
| Ammonia Nitrogen, Total (as N$)$ | $\mathrm{mg} / \mathrm{L}$ | $8.2 / 17.6^{(2)}$ | $\mathrm{N} / \mathrm{A}$ |  |
| Copper, Total Recoverable | $\mu \mathrm{g} / \mathrm{L}$ | $15 / 20$ | Monthly/Weekly | $\mathrm{N} / \mathrm{A}$ |
| Chlorodibromo-methane | $\mu \mathrm{g} / \mathrm{L}$ | $17.2 / 34.0$ | Monthly/Daily | Potentially Filtration ${ }^{(3)}$ |
| Dichlorobromo-methane | $\mu \mathrm{g} / \mathrm{L}$ | $25.2 / 43.0$ | Monthly/Daily | Alternative Disinfection ${ }^{(3)}$ |
| Nitrate Plus Nitrite (as N) | $\mathrm{mg} / \mathrm{L}$ | $10^{(5)}$ | Monthly/Daily | Alternative Disinfection ${ }^{(3)}$ |
| Bis <br> (Di-2-ethylhexyl)-phthalate (DEHP) | $\mu \mathrm{g} / \mathrm{L}$ | $1.8 / 3.6^{(5)}$ | Monthly | DenitrificationUpgrades |
| Lead | $\mu \mathrm{g} / \mathrm{L}$ | $1.3 / 2.8^{(5)}$ | Monthly/Daily | Potentially Filtration |
| Zinc | $\mu \mathrm{g} / \mathrm{L}$ | $300^{(5)}$ | Monthly/Daily | Potentially Filtration |

(1) Monthly and weekly values are average effluent concentration limitations. Daily value is maximum effluent concentration limitation.
(2) Ammonia limits may be reduced with implementation of 2013 Criteria.
(3) Would be required if current limits are reduced during future permit renewals due to mixing zone limitations (or other).
(4) Current permit limitations are $60 / 104 \mathrm{mg} / \mathrm{L}$ (average monthly/average weekly).
(5) Assumes no dilution credit assignment, which is currently considered conservative.

The WPCP Strategic Planning Report ${ }^{3}$ also included a summary of probable regulatory-driven facility needs based on the prediction of near-term and longer-term regulatory drivers and the planning horizon in question at the time of analysis (through 2040). Based on the analysis completed for the WPCP Strategic Planning Report ${ }^{4}$, the following regulatory-driven needs were projected for the WPCP:

- Required improvements for land discharge of treated effluent:
- If City preferred to continue discharging treated effluent to the ponds, denitrification upgrades would be needed by 2024.
- It City preferred to continue discharging partially treated effluent to the ponds during facility upset conditions, a project would be needed by 2026 to install a lining over a portion (or all) of the WPCP Southeast and/or Northeast ponds.
- Addition of tertiary treatment facilities at the WPCP (assumed required in 2021 permit, with full implementation by 2031).
- Required improvements for reduction of Di(2-ethylhexyl)phthalate (DEHP), lead, and zinc concentrations in the treated effluent, with implementation by 20315:
- All possibly reduced with implementation of MLE and tertiary filtration improvements, assuming optimized chemical addition.
- Required improvements for reduction of disinfection byproduct (DBP) concentrations in the treated effluent, with implementation by 2036:
- Treatment with alternative disinfection facilities.

The WPCP Strategic Planning Report ${ }^{6}$ included an evaluation of project alternatives for each of these capital requirements, with potential layout options, operational and capital cost estimates, qualitative comparisons based on related project experience, and the presentation of recommendations for City planning and future implementation. The evaluation of project alternatives for the regulatory-driven needs at the WPCP is not recreated herein, but updated facility sizing, project costs, and projected timeline for implementation of the previously selected project alternatives is.

### 5.3 Revised Schedule and Sizing Criteria

With ongoing participation from the both the State Water Resources Control Board (SWRCB) and the RWQCB in the Sewer Regional Project Advisory Committee (SRPAC) associated with the potential connection of the Paradise sewer to the WPCP, the City has had the opportunity to discuss the projected regulatory needs for the facility with both agencies, obtaining productive feedback related to timelines for implementation of the regulatory-driven facility needs previously identified.

The projections made in the WPCP Strategic Planning Report'7 for regulatory-driven facility needs are modified herein based on the following discussions:

[^16]- Meeting with the City, RWOCB, and Carollo on December 10, 2021:
- Pond lining will not be required for an emergency bypass pond. The City will be protected against non-compliance (during facility upset conditions) if they pursue a project to store bypassed effluent into a pond area that can be drained back to the influent side of the WPCP. This should occur in the near-term.
- The permit order currently being drafted by the RWOCB will not require the implementation of denitrification upgrades at the WPCP. The City should plan for this requirement to be included within the next permit cycle (likely adoption in 2027) with implementation required prior to permit expiration (assumed 2032).
- Meeting with the City, RWQCB, SWRCB, Paradise, Carollo, and HDR on December 22, 2021:
- Tertiary filtration will not be required within the next two permit cycles. The City should plan for this requirement to be included in the following permit cycle (likely adoption in 2032) with a 10-year compliance order for implementation (assumed 2042).
- Alternate disinfection (if required) will not be included within the next three permit cycles. The City could plan for this requirement to be included in the permit cycle following the one that requires tertiary filtration (likely adoption in 2037) and can also anticipate that the City would be allowed a 10-year compliance order for implementation (assumed 2047).

Regulatory-driven needs at the WPCP are also updated herein based on modified flow and load projections completed as part of this planning effort (Chapter 2). Related facility sizing and project cost adjustments are discussed in the following sections.

### 5.4 Updated Projection of Regulatory-Driven Facility Needs at the WPCP

### 5.4.1 Required Improvements for Land Discharge

Adjustments to the recommended facility improvement projects for land discharge originally included in the WPCP Strategic Planning Report ${ }^{8}$ are discussed in the following sections.

### 5.4.1.1 Emergency Effluent Bypass, Storage, and Return Improvements

If the City decides to continue to use the existing WPCP ponds for emergency storage of treated effluent that does not comply with land-discharge requirements (i.e., bypassed flows during facility upset conditions), then an improvement project of some sort will be needed to protect the City from non-compliance with land-discharge specifications. Project alternatives previously presented for this were all costly due to the assumed need for a pond liner. The RWOCB agreed during a meeting on December 10, 2021 that a pond liner would not actually be required if the City can return flow to the front of the WPCP for treatment within a reasonable time following bypass. A modified alternative project for effluent bypass, storage, and return to the front of the WPCP for treatment is presented in Figure 5.1.
${ }^{8}$ (Carollo Engineers, 2021)


Figure 5.1 Emergency Effluent Bypass, Storage, and Return Improvements
-This Page Intentionally Left Blank-

The following improvements are needed for this effluent bypass, storage, and return project:

- Removal of approximately 10 feet of soil across pond area to increase storage capacity to 25 million gallons.
- Installation of diversion piping between the existing outfall box and the Northeast pond.
- Installation of 3 MGD pump station to assist with return pumping of the bypassed effluent to the headworks facility (in conjunction with existing drain pump station to achieve maximum drainage time of 4 days).
- Ancillary stripping and grading efforts.
- Ancillary electrical and instrumentation upgrades.

The estimated costs for the emergency effluent bypass, storage, and return improvements presented herein are $\$ 7.1$ million (construction cost) and $\$ 8.5$ million (project cost), both in December 2021 dollars. This cost is carried through in Chapter 1 and 7 summary tables with forecasted implementation by 2027.

As facility flow increases throughout the new planning period (2057), the need for additional bypass storage capacity at the WPCP will need to be revisited.

### 5.4.1.2 Denitrification Upgrades

The secondary treatment process currently nitrifies (removes ammonia) but only includes partial denitrification (conversion of nitrates and nitrites into nitrogen gas for release into the atmosphere). It is anticipated that effluent limitations for nitrate will become more stringent over time with a likely requirement to implement denitrification at the WPCP by 2032. The Pond/Facility Improvement Options TM 9 included a recommendation to implement a Modified Ludzack-Ettinger (MLE) process within the existing Plant 2 aeration tanks for this purpose.

The MLE process requires an anoxic zone upstream of the aerobic zone to facilitate the biological denitrification reaction. For incorporation of this process into the existing aeration tanks (as depicted in Figure 5.2), the anaerobic zone for each tank will be converted to an anoxic zone by pumping mixed liquor (ML) from the effluent end of the tank to the anoxic zones at the influent end of the tank. This requires the installation of mixed liquor recycle pumps as depicted in Figure 5.2.

[^17]-This Page Intentionally Left Blank-


Figure 5.2 Process Conversion from Nitrifying Activated Sludge to Modified Ludzack-Ettinger
-This Page Intentionally Left Blank-

The following improvements are needed to upgrade the existing secondary process to MLE:

- Addition of four 7.5 mgd MLE pumps:
- One pump per tank, with shelf-spare on hand.
- Addition offourteen 6-horsepower submersible mixers.
- Piping, electrical, instrumentation, and ancillary items.

The estimated project cost for these upgrades was originally presented in the Pond/Facility Improvement Options TM (Carollo Engineers, 2019). The updated project cost for these upgrades is approximately $\$ 4,400,000$ (in December 2021 dollars). This cost is carried through the in Chapter 1 and 7 summary tables with forecasted implementation by 2032.

### 5.4.2 Tertiary Treatment

Tertiary treatment is likely to be required within the next few NPDES permit cycles with reduced BOD/TSS limits (and likely turbidity limit of 2 Nephelometric turbidity units [NTU]). This level of treatment is typically accomplished with filtration, which is a process that removes suspended solids that remain in treated flow after the secondary clarification process.

The following industry leading filtration methods were evaluated as alternatives in the WPCP Strategic Planning Report ${ }^{10}$ :

- Dual media filtration.
- Cloth disk filters.
- Membrane filtration.

Following a detailed comparison involving project costs, annual O\&M costs and labor requirements, relative footprint needs/limitations, and ability to meet future water quality goals (near- and long-term), cloth disk filters were selected as the chosen alternative for planning purposes. Design criteria, facility sizing and layout, and related project costs are updated herein for this filter technology only.

### 5.4.2.1 Filter Design Flow and Flow Equalization

The requirement to filter the effluent flow could be based on the AAF or PF, depending on the final permit requirements. The more conservative assumption is that the permit will require that the peak facility flow be filtered. In this case, flow equalization could be considered to reduce filter size and capital costs. Providing flow equalization for the PF may be possible, but it is not considered within this evaluation as there are many other key considerations (and because flow equalization may not actually save the City money). Instead, filters are sized to provide filtration for the PF without redundancy, with a normal redundancy requirement included for treatment of the MMF.

### 5.4.2.2 Filter Loading Rate

Title 22 regulations for recycled water require a maximum loading rate of 6 to $7 \mathrm{gpm} / \mathrm{sf}$, depending on the cloth type used. Higher loading rates (up to $22 \mathrm{gpm} / \mathrm{sf}$ ) are possible if specific design and monitoring conditions are met.
${ }^{10}$ (Carollo Engineers, 2021)

The filters for the WPCP will not be required to meet Title 22 standards unless the City wishes to implement a water recycling program in the future. For planning purposes, non-Title 22 conforming loading rates are used herein for facility sizing and related project cost estimates.

### 5.4.2.3 Cloth Disk Filters

Cloth disk filters are vertical disks located within concrete or steel tanks. For the vendors considered within this study, water flows by gravity from the outside of the disks, through the vertical disk media, to an effluent collection pipe, and into an effluent chamber. Figure 5.3 illustrates the configuration of a basic disk filter.


Figure 5.3 Configuration of Basic Disk Filter
Courtesy of Aqua Aerobics (Left) and Disk Filters at Turlock Regional Water Quality Control Facility (Right)
Backwashes are conducted through a suction foot that vacuums each disk using filtrate water. Unlike some other conventional filters, cloth filters can be backwashed while still producing effluent. As such, the downtime for disk filters is minimized. Additionally, since backwashing uses the filtrate directly on the other side of the media, there is no need for a backwash supply tank (reducing overall footprint and cost).

Disk filters were very popular in the early 2000s for their reduced footprint requirement, low head loss, and continuous flow production throughout backwashing. They also have a reduced energy requirement compared to other filter technologies because they operate with gravity flow. However, where dual media filters are robust, cloth media disk filters require a relatively high-quality influent (consistent turbidity less than 5 NTU and TSS lower than $15 \mathrm{mg} / \mathrm{L}$ ) to produce a high-quality effluent. Flows with turbidity values above 5 NTU can cause downstream compliance issues if upstream coagulant addition is not used to optimize treatment. Coagulant addition must be carefully handled because too much coagulant can easily clog cloth filters. With the proper influent or upstream chemistry, disk filters are a good solution downstream of a nitrified secondary treatment process.

Though not monitored regularly, available data indicates that the WPCP has low effluent turbidity as flow exits the secondary clarifiers. Thus, regular chemical addition may not be required. Upgrading the secondary treatment process to include denitrification is not expected to adversely affect the effluent water quality if sufficient clarification capacity is available. The City should monitor effluent turbidity values after the MLE process is implemented, so that adequate information will be available for filtration system design.

Projected design criteria for disk filters for the WPCP is summarized in Table 5.4.
Table 5.4 Cloth Disk Filter Design Criteria

| Design Criteria | Value | Units |
| :---: | :---: | :---: |
| Design Average Flow ${ }^{(1)}$ | 21.8 | mgd |
| Peak Hour Flow ${ }^{(2)}$ | 39.6 | mgd |
| Tertiary Lift Station ${ }^{(3)}$ | 120 | hp |
| Number of Filters (Duty+Standby) | $4(3+1)$ | No. |
| Filter Cell Length (each) | 25 | ft |
| Filter Cell Width (each) | 13 | ft |
| Number of Disks per Unit | 15 | No. |
| Filtration Area Provided (N-0) | 6,456 | sf |
| Filtration Area Provided (N-1) | 4,842 | sf |
| Filter Loading Rate at Peak Flow (N-1) | 5.7 | gpm/sf |
| Filter Loading Rate at Design Flow (N-1) | 3.1 | gpm/sf |
| Backwash Pumps (Duty+Standby) | $4(3+1)$ | No. |
| Backwash Pump Motor Power (each) | 20 | hp |
| Backwash Waste | Direct to |  |
| Overall Footprint ${ }^{(4)}$ | $60^{\prime} \times 60$ | ft |
| Notes: |  |  |
| (1) Projected WPCP maximum month flow through <br> (2) Projected WPCP peak hour flow through end of <br> (3) Assumes three duty $30-\mathrm{hp}$ pumps and one stanc <br> (4) Filter includes pumping room and disk filters. | (2057). |  |

A potential layout for the disk filters at the WPCP is included as Figure 5.4. Effluent from the secondary clarifiers will be routed through the disk filters and then to the influent side of the existing chlorine contact basins (as shown).
-This Page Intentionally Left Blank-


Figure 5.4 Potential Layout for Disk Filter Facilities at WPCP
-This Page Intentionally Left Blank-

The following improvements are needed to implement disk filtration at the WPCP:

- Construction of four disk filter cells with area and disk details summarized in Table 5.3.
- Addition of a tertiary lift station to pump effluent from the secondary clarifiers into the disk filter facility.
- Three duty pumps at build-out flows, one standby.
- Addition of piping between the tertiary lift station and the influent side of the disk filter facility.
- Addition of piping between the effluent side of the disk filter facility and the influent side of the existing chlorine contact basin.
- Addition of backwash pump station.
- Demolition of existing shop building.
- Ancillary civil, mechanical, electrical, and instrumentation items.

The estimated costs for the cloth disk filters are $\$ 16.8$ million (construction cost) and $\$ 22.7$ million (project cost), both in December 2021 dollars. This cost is carried through in Chapter 1 and 7 summary tables with forecasted implementation by 2042.

Cost estimate details are included herein as Appendix A.

### 5.4.3 Requirements for DEHP, Lead, and Zinc Compliance

Recommended strategies for long-term DEHP, lead and zinc compliance were discussed in detail in the WPCP Strategic Planning Report, with study cost estimates included for CIP planning. These discussion and related costs are not repeated herein for simplicity, because the planning period is long and detailed compliance requirements will continue to evolve throughout the planning period, and because this type of work will more likely be covered under the City's operational budget (which is adjusted annually to account for these variable needs at the WPCP). The City should review related needs with each NPDES permit renewal cycle.

### 5.4.4 Alternative Disinfection

The Chico WPCP currently uses sodium hypochlorite for free chlorine disinfection. The current disinfection regulations include a monthly average total coliform limit of 23 MPN per 100 mL , which the WPCP can consistently meet with current chlorine dosing practices. However, two major regulatory requirements will require a recurring re-examination of the disinfection system:

- Possible reduction of effluent water quality limitation to 2.2 MPN per 100 mL .
- Possible future stringent regulation of DBPs.

While existing DBP effluent limitations (for chlorodibromomethane and dichlorobromomethane) have not been exceeded, an increased level of disinfection (to meet 2.2 MPN per 100 mL ) may require higher chlorine doses or contact time (potentially leading to increased DBP formation). Additionally, the WPCP's ability to comply with DBP limits relies heavily on continued allowance of dilution credits by the RWQCB as included in the current permit Order. If dilution credits for these DBPs (or others that may be identified in future reasonable potential analyses) are reduced or eliminated, then an alternate disinfection process may be required.

The following disinfection alternatives were analyzed with respect to their DBP formation potential and their ability to comply with the more stringent total coliform limit projected in the WPCP Strategic Planning Report ${ }^{11}$ :

- Ozone disinfection.
- Ultraviolet disinfection (UV) constructed within existing chlorine contact basin (CCB) channels.
- UV disinfection in a standalone structure.
- Testing and adjustment of existing chlorination practices.

Following a detailed comparison summarized in the WPCP Strategic Planning Report ${ }^{12}$ involving project and operational costs, reliability of treatment process, relative footprint needs/limitations, and ability to meet future water quality goals (near- and long-term), UV disinfection in a standalone structure was selected as the chosen alternative for planning purposes. Design criteria, facility sizing and layout, and related project costs are updated herein for this option only.

### 5.4.4.1 UV Disinfection

UV disinfection is popular due to its efficiency, lack of toxicity, and lack of DBP formation. UV has a high efficiency for bacterial, virus, and protozoa disinfection, and it does not need to be quenched before discharge.

## UV Design Assumptions

Ultraviolet transmittance (UVT) is a key design criteria for UV system design, alongside UV dose and wastewater flow. For the WPCP UV design, a process capacity of the peak hour flow (39.6 mgd) was assumed, along with a UVT of 55 percent (which is a typical low value for wastewater effluent). It is probable that after filtration, the UVT of the filtered flow will increase, potentially requiring a reduced number of UV lamps. For planning purposes, the conservative value of 55 percent UVT is used in this evaluation.

Other projected design criteria for the UV system for the WPCP is summarized in Table 5.5.

[^18]Table 5.5 UV Facility Design Criteria

| Parameter | Value |
| :---: | :---: |
| Peak Hour Flow Rate (mgd) | 39.6 |
| Maximum MonthFlowRate (mgd) | 21.7 |
| Average Annual Flow Rate (mgd) | 17.1 |
| Design UV Transmittance (\%) | 55.0 |
| Minimum MS2 RED (mJ/cm2), per NWRI 2012 | 105.0 |
| Total Suspended Solids |  |
| Average Monthly (mg/L) | 10 |
| Average Weekly (mg/L) | 15 |
| Maximum Daily (mg/L) | 20 |
| Redundancy | Meet Design Dose at Maximum Day Flowwith one channel out of service |
| Permit Limit, shall not exceed: |  |
| Total Coliform, 7-day median | 2.2 MPN/100 mL |
| Total Coliform, more than once in any 30-day period | 23 MPN/100 mL |
| Total Coliform, at any time | $240 \mathrm{MPN} / 100 \mathrm{~mL}$ |

Abbreviation:
$E D=$ reduction equivalent dose
A potential layout for the new UV facility at the WPCP is included as Figure 5.5. Effluent from the new disk filter facility will be routed to the influent end of the UV facility, through the new UV equipment, and disinfected effluent will then flow to the to the existing outfall box for discharge to the Sacramento River.
-This Page Intentionally Left Blank-


Figure 5.5 Potential Layout for UV DisinfectionFacilities at the WPCP
-This Page Intentionally Left Blank-

The following improvements are needed to implement UV disinfection at the WPCP:

- Construction of UV facility.
- Addition of piping between the effluent side ofthe disk filter facility and the influent side of the UV facility.
- Addition of piping between the effluent side of the UV facility and the existing outfall box.
- Construction of UV Electrical Building.
- Ancillary civil, mechanical, electrical, and instrumentation items.

The estimated costs for the proposed UV facilities is $\$ 30.2$ million (construction cost) and $\$ 40.8$ million (project cost), both in December 2021 dollars. This cost is carried through in Chapter 1 and 7 summary tables with forecasted implementation by 2047.

Cost estimate details are included herein as Appendix A.
-This Page Intentionally Left Blank-

## Chapter 6

## CONDITION-DRIVEN FACILITY NEEDS

Condition-driven needs for the WPCP were evaluated as part of detailed visual assessment of facility assets in 2018 by a multi-disciplinary condition assessment team. Methodology and findings of this assessment are summarized in the WPCP Strategic Planning Report ${ }^{1}$. This analysis, including extension of the planning period from 2040 to 2057 as described in Chapter 1, was not updated as part of this planning exercise. The condition-driven improvement recommendations from this original assessment are repeated herein for Plant 2 to allow for a complete picture of facility needs through 2040, with simple updates provided for related project costs.

### 6.1 Summary of Near-Term Condition Driven Needs

Although the Plant 2 facilities have been well maintained, some elements are nearing the end of their useful lives and will require attention. Table 6.1 includes a summary of near-term improvements that would be required to maintain Plant 2 operational reliability.

[^19]Table 6.1 Summary of Near-Term Plant 2 Condition-Driven Needs

| Process Area | Required Improvement | Timeline for Implementation ${ }^{(1)}$ | Estimated Project Cost ${ }^{(2)}$ |
| :---: | :---: | :---: | :---: |
| Primary Treatment | Basin rehabilitation ${ }^{(3)}$ Equipment replacement ${ }^{(4)}$ | < 5 years | \$3,680,000 |
| Aeration | Equipment replacement ${ }^{(5)}$ | < 5 years | \$880,000 |
| Secondary <br> Treatment | Equipment replacement ${ }^{(6)}$ | < 5 years | \$980,000 |
| Disinfection | Equipment replacement ${ }^{(7)}$ | < 5 years | \$840,000 |
| Chemical Building | Equipment replacement ${ }^{(8)}$ | < 5 years | \$190,000 |
| Solids Thickening | Equipment replacement ${ }^{(9)}$ | < 5 years | \$350,000 |
| Solids Digestion | Equipment replacement ${ }^{(10)}$ | < 5 years | \$2,370,000 |
| Solids Dewatering | Equipment replacement ${ }^{(11)}$ | < 5 years | \$540,000 |
| Plant Power Systems | Equipment replacement ${ }^{(12)}$ | < 5 years | \$10,000 |
| Other Plant Systems | Equipment replacement ${ }^{(13)}$ | < 5 years | \$740,000 |
| Total Near-Term Required Capital Investment |  |  | \$10,580,000 |

Notes:
(1) These recommendations were originally made (as listed) in 2018.
(2) Costs are escalated from those presented in the WPCP Strategic Planning Report based on December 2021 dollars using an ENR-CCI 20 Cities Index of 12482. Original cost estimating assumptions and limitations are discussed therein.
(3) Includes concrete repair and rehabilitation, replacement of gates and actuators, all process instrumentation, and spot repair/rehabilitation of process piping.
(4) Includes replacement of sludge collector motor and chains for Primary Clarifier Nos. 1 and 2, pit pumps for Primary Clarifier Nos. 1 and 2, primary effluent pump motors (pumps No. 2 and 3), replacement of PLC-H, and ancillary items.
(5) Includes replacement of Blower No. 7, air diffuser and air flow meters in Aeration Basin Nos. 3 and 4, PLC-B, and ancillary items.
(6) Includes replacement of sludge collectors for Secondary Clarifier Nos. 3 and 4, replacement of MCC-EP-1, MCC-P1, and PLC-R, and ancillary items.
(7) Includes replacement of flash mixers for Chlorine Contact Basin Nos. 3 and 4, gates and actuators, flow meters, sampling pumps, PLC-C, and ancillary items.
(8) Includes replacement of CSS Pump Nos. 1 and 2, SBH Recirculation Pump No. 1, SHS Pump No. 1, PLC-C, and ancillary items.
(9) Includes replacement of Recycle Pressurization Pump Nos. 1-4, air compressors for DAFT Nos. 1 and 2, polymer feed system, MCC-EP5, PLC-B-I/02, and miscellaneous items.
(10) Includes improvements to Boiler Building No. 2 and replacement of Sludge Heater Nos. 1-3, digester gas flow meters, PLC-D, and ancillary items.
(11) Includes replacement of Screw Conveyor No. 1, solids grinder, miscellaneous exhaust/supply fans, flow meters, and unit heaters, PLC-B2-I/02, and ancillary items.
(12) Includes replacement of LCP-PCP-47.
(13) Includes replacement of Deep Well Pump Nos. 1 and 2, MCC-PC/EP-2, and ancillary items.

### 6.2 Summary of Long-Term Condition Driven Needs

Table 6.2 includes a summary of long-term condition-driven project costs for Plant 2 facilities.
Table 6.2 Summary of Long-Term Plant 2 Condition Needs

| Process Area | Required Improvement | Timeline for Implementation ${ }^{(1)}$ | Estimated Project Cost ${ }^{(2)}$ |
| :---: | :---: | :---: | :---: |
| Headworks | Equipment rehabilitation/replacement ${ }^{(3)}$ | 2029-2039 | \$3,180,000 |
| Primary Treatment | Equipment replacement ${ }^{(4)}$ | 2025-2039 | \$4,160,000 |
| Aeration | Equipment replacement ${ }^{(5)}$ | 2027-2039 | \$1,900,000 |
| Secondary Treatment | Equipment replacement ${ }^{(6)}$ | 2027-2039 | \$2,390,000 |
| Disinfection | Equipment replacement ${ }^{(7)}$ | 2027-2039 | \$1,080,000 |
| Chemical Building | Equipment replacement ${ }^{(8)}$ | 2029-2038 | \$510,000 |
| Solids Thickening | Equipment replacement ${ }^{(9)}$ | 2027-2039 | \$1,210,000 |
| Solids Digestion | Equipment replacement ${ }^{(10)}$ | 2027-2040 | \$6,210,000 |
| Solids Dewatering | Equipment replacement ${ }^{(11)}$ | 2027-2039 | \$5,790,000 |
| Plant Power Systems | Equipment replacement ${ }^{(12)}$ | 2027-2039 | \$7,210,000 |
| Other Plant Systems | Equipment replacement ${ }^{(13)}$ | 2027-2039 | \$420,000 |
| Total Long-Term RequiredCapital Investment |  |  | \$34,060,000 |

## Notes:

(1) These recommendations were originally made (as listed) in 2018.
(2) Costs are escalated from those presented in the WPCP Strategic Planning Report based on December 2021 dollars using an ENR-CCI 20 Cities Index of 11699. Original cost estimating assumptions and limitations are discussed therein.
(3) Includes replacement of major mechanical equipment items (shaftless screw conveyor, mechanical bar screens, screenings washer/compactors, vortex grit chamber drives, grit cyclone separators, ferric facility pumps biofilter fans, grit basement exhaust and supply fans, flow meters/transmitters, sump pumps, analyzers, samplers, etc.) (in 2029); and replacement of grit pumps, channel gates, and MCC-P14 (in 2039).
(4) Includes rehabilitation of Primary Clarifier No. 3 (motor and chains, sludge collector drives, chains, etc), replacement of Primary Effluent Pumps Nos. 1-3 (with new VFDs), and ancillary items (in 2027); replacement of MCC-EP7 and PLC-X (in 2029); miscellaneous items (2030-2036); and replacement of Primary Effluent Pump No. 4 and MCC-P13 (in 2039).
(5) Includes replacement of tank inlet/outlet gates and MCC-P8 (in 2027); DO meters (in 2028); air diffusers and flow meters for Aeration Basin Nos. 5 and 6, exhaust and supply fans for Blower Building No. 2, and PLC-BB (in 2029); air inlet and blow off valves (in 2032); miscellaneous items (2034-2036); and Blower No. 8, and inlet and outlet gates for Aeration Basin Nos. 5 and 6 (in 2039).
(6) Includes replacement of sludge collector drive for Secondary Clarifier No. 3, RAS Pump Nos. 4-7, MCC-P11A, and SWGP-1 (in 2027); MCC-P11 and PLC-RR (in 2029); miscellaneous flow meters and heat pumps (in 2036); and the sludge collector drive for Secondary Clarifier No. 5, RAS Pump No. 9, and Secondary Scum Pump No. 5 (in 2039).
(7) Includes replacement of sluice gates (in 2027), miscellaneous flow meters, analyzers, and sample pumps (2028-2035), and the hydraulic power unit and sluice gates (in 2039).
(8) Includes replacement of MCC-P12, SBS recirculation Pump No. 2, and miscellaneous heat pumps, unit heaters, exhaust fans, and instrumentation (in 2029); and replacement of SBS Pump Nos. 1 and 2 and SHS Pumps 2-4 (in 2038).
(9) Includes replacement of DAFT No. 2 collector drive, TWAS Pump Nos. 1-4, Thickened Sludge Grinder Nos. 1 and 2, instrumentation for DAFT Nos. 1 and 2, and MCC-P13 (in 2029); DAFT No. 1 collector drive (in 2032); and Thickened Sludge Pump Nos. 1 and 2 (in 2039).
(10) Includes replacement of Digester No. 3, most digester transfer/recirculation pumps and Sludge Mixing Pump Nos. 1-3 (in 2027); MCC-P15, MCC-P9, PLC-X, and miscellaneous items (in 2029); miscellaneous flow meters, inlet valves (2030-2036); and Digester Transfer Pump No. 2, Sludge Mixing Pump No. 4, Digester Recirculation Pump No. 3, and Hot Water Loop Pump Nos. 1-3 (in 2039).
(11) Includes replacement of Centrifuge No. 1 and miscellaneous control and starter panels (in 2027); Screw Conveyor Nos. 2 and 3, Polymer Mixing Pump Nos. 1-2, Polymer Blending Pump Nos. 1-2, and MCC-P10 (in 2029); miscellaneous items (2030-2037); and Centrifuge No. 2, Centrifuge Feed Pump Nos. 1-2, and ancillary items (in 2039).
(12) Includes replacement of solar power system, Switchboard-P2, Transformer No. 1, and Standby Generator No. 2 Control Panel (in 2027); Substation No. 1, Panel-P9A, and miscellaneous electrical items (in 2029); the cogeneration unit (in 2034); Standby Generator No. 2 and the synchronizer panel for Generator Nos. 1-2 (in 2037); and the cogeneration hot water loop and control panels for Standby Generator No. 3 and 4 (in 2039).
(13) Includes replacement of $3 W$ Pump Nos. 1-4 and main hot water pumps (in 2027); miscellaneous items (2029-2032), and 3W Pump No. 5 (in 2039).

### 6.3 Options for Reduced or Deferred Capital Expenditure

The WPCP Strategic Planning Report ${ }^{2}$ identified four projects as unnecessary following related discussions with the City staff after completion of the on-site condition assessment:

- Rehabilitation/replacement of gravity thickener and thickened sludge pump equipment:
- These facilities were not in use at the time of the analysis, following completion of facility upgrades that have allowed WPCP staff to thicken sludge in the primary clarifiers.
- Rehabilitation/replacement of ferric chloride facilities:
- These facilities had not been used since their construction, and plant staff indicated that they did not plan to use them in the foreseeable future.
- Rehabilitation/replacement of Aeration Blowers No. 7 and 8:
- The City had completed related improvements during the final efforts associated with the WPCP Strategic Planning Report ${ }^{3}$.
- Rehabilitation/replacement of the photovoltaic (solar) system:
- The City had requested that costs associated with replacement/repair of these facilities be excluded from the analysis at the time of its completion.

The costs for these project components were presented in the WPCP Strategic Planning Report ${ }^{4}$ (for reference only) but were not factored into the Condition-Driven Project Packages developed as part of that effort (discussed in Section 6.4). The need for these improvements should be reevaluated as facility uses continue to change.

### 6.4 Development of Condition-Driven Project Packages

The final analysis presented in the WPCP Strategic Planning Report 5 included a list of conditiondriven project packages based on the coupling of the near- and long-term condition-driven needs presented in Tables 6.1 and 6.2 for ease of delivery. This analysis is not updated herein for reasons of simplicity. The timing and scope of condition-driven project packages will need to be reevaluated as the City implements these improvements over time.

### 6.5 Summary of Condition-Driven Project Costs

The total estimated project cost for all near- and long term 2 condition-driven needs identified for Plant 2 is $\$ 44.6 \mathrm{M}$ (in December 2021 dollars). This estimated project cost is escalated to December 2026 dollars ( $\$ 55.6 \mathrm{M}$ ) for the connection payment calculation option presented in Chapter 1 with use of a projected average annual interest rate of 4.5 percent

[^20]
## Chapter 7

## FACILITY IMPROVEMENT RECOMMENDATIONS

Facility planning recommendations are summarized herein based on identified needs at the WPCP as related to projected capacity limitations, changing regulatory drivers, and observed condition deficiencies.

### 7.1 Summary of Capacity-Driven Projects

Several facility improvements are needed to increase the hydraulic and treatment capacity of the WPCP through the end of the planning period (2057).

The secondary treatment facilities will require significant improvement extending into the existing pond area south of the main WPCP treatment works area. Three options for expansion were evaluated (Table 7.1), with Option 3 costs carried through for planning purposes.

Table 7.1 Secondary Treatment Facility Expansion Options

| Option 1 | Option 2 |
| :--- | :--- |$\quad$| Option 3 |
| :---: |

Table 7.2 includes a summary of recommended projects based on anticipated capacity-driven facility needs through 2057, along with predicted timelines for implementation of each and planning level construction and project cost estimates (presented in December 2021 dollars).

Table 7.2 Summary of Capacity-Driven Facility Needs

| Projected <br> Timeline for Implementation | Project Description | Estimated Construction Cost ${ }^{(1)(2)}$ | Estimated Project Cost ${ }^{(1)(3)}$ |
| :---: | :---: | :---: | :---: |
| 2028 | Secondary Clarifier \#6 ${ }^{(4)}$ (fourth clarifier in Plant 2) | \$8,000,000 | \$10,700,000 |
| 2032 | Supplemental Carbon Project | \$300,000 | \$400,000 |
| 2033 | Chlorine Contact Basin | \$4,100,000 | \$5,100,000 |
| 2033 | Chemical Storage and Feed <br> Facility Improvements <br> (SHS and SBS) | \$1,300,000 | \$1,600,000 |
| 2036 | Southern Pond Improvements for Secondary Expansion | \$700,000 | \$900,000 |
| 2036 | Secondary Clarifier \#7(5) (fifth clarifier in Plant 2) | \$10,000,000 | \$13,400,000 |
| 2036 | RAS/WAS Pump Station and Electrical Building ${ }^{(6)}$ | \$1,300,000 | \$1,600,000 |
| 2038 | Parallel PE Force Main Improvements | \$800,000 | \$1,100,000 |
| 2039 | Secondary Clarifier \#8 ${ }^{(5)}$ (sixth clarifier in Plant 2) | \$10,000,000 | \$13,400,000 |
| 2044 | Aeration Tank \#5 ${ }^{(7)}$ | \$11,700,000 | \$15,600,000 |
| 2044 | Blower and Electrical Building ${ }^{(6)}$ | \$5,000,000 | \$6,300,000 |
| 2044 | Standby Generator | \$1,200,000 | \$1,500,000 |
| 2045 | Primary Clarifier \#4 | \$3,700,000 | \$5,000,000 |
| 2053 | Aeration Tank \#6 ${ }^{(7)}$ | \$11,700,000 | \$15,600,000 |
| 2054 | Primary Effluent Lift Station Improvements | \$1,700,000 | \$2,100,000 |
| 2054 | Bar Screen \#3 | \$500,000 | \$600,000 |
|  | Total Required Capital Investment | \$72,000,000 | \$94,900,000 ${ }^{(8)}$ |

## Notes:

(1) Costs are in December 2021 dollars based on ENR-CCICCI of 12482.
(2) Includes estimating contingency of $40 \%$ applied to total direct cost, general conditions and contractor overhead and profit contingencies at $18 \%$ of total direct cost (each), and local sales tax of $7.25 \%$ applied to half of the total direct cost.
(3) Includes project cost factor of $35 \%$ for legal, administration, permitting, design, and engineering services during construction.
(4) 100-foot diameter secondary clarifier.
(5) 125 -foot diameter secondary clarifier.
(6) Based on Secondary Treatment Expansion Option 3 layout (Chapter 4).
(7) With denitrification improvements (MLE).
(8) Escalated to December 2026 dollars ( $\$ 118.3 \mathrm{M}$ ) in Chapter 4 with use of a projected annual average interest rate of $4.5 \%$.

### 7.1.1 Limitations of Capacity Analysis

The capacity of the existing WPCP facilities was evaluated against expected flows and loads projected over the planning horizon (through 2057), as calculated with an expected growth rate of 1.7 percent per year (Chapter 2). This growth rate value is consistent with the 2030 General Plan, but may prove inaccurate long-term due to the following:

- With a long planning period it is less likely that an assumed population growth rate of 1.7 percent will accurately represent the final population at build-out. The projection results in a population that is more than double the existing population in 35 years.
- Population and wastewater data collected in the baseline year of 2020 may be less representative than other years due to the impacts of the COVID-19 pandemic.

Additionally, there is some uncertainty with how the Paradise connection will impact projected flows and loads. Since a wastewater characterization of Paradise flows was unavailable, it was assumed that Paradise would produce flows with similar quality as Chico.

It is recommended that the City revisit the findings of this evaluation within the next 3 to 5 years to best prepare for future facility needs related to hydraulic and process capacity.

Last, the capacity analysis includes facility needs identified based on identified hydraulic and/or treatment limitations, without consideration of cost for facilities that may age out during the 35year planning period. Additional cost may be incurred long-term for facilities deemed herein as having adequate capacity based on asset condition not addressed herein.

### 7.2 Summary of Regulatory-Driven Projects

Regulatory drivers for future facility upgrade needs were evaluated in detail in the WPCP Strategic Planning Report ${ }^{1}$ with updated timing, facility sizing, and project costs presented herein (Chapter 5).

Table 7.3 includes a summary of recommended projects based on reasonably anticipated regulatory-driven facility needs through 2057, along with predicted timelines for implementation of each, and planning level project cost estimates (presented in December 2021 dollars).

Table 7.3 Summary of Regulatory-Driven Facility Needs


[^21]
### 7.2.1 Limitations of Regulatory Analysis

Facility upgrade recommendations made herein are based on ongoing (and recent) coordination with the RWQCB and SWRCB, experience at similar facilities, and site-specific effluent and receiving water quality observations.

The regulatory climate is highly volatile, especially in California. This creates difficulty in fully predicting facility needs based on impending regulatory requirements over a long-term (35year) planning horizon. For this reason, it is recommended that the City revisit the findings of this evaluation within the next 5 to 10 years to best prepare for future facility needs.

### 7.3 Summary of Condition-Driven Projects

Condition-driven needs at the WPCP were identified through an on-site, multi-discipline visual condition assessment of all facilities, including detailed mechanical, structural, and electrical/instrumentation and control inspections of each asset. The methods and findings of this effort are summarized in detail in the WPCP Strategic Planning Report ${ }^{2}$.

Chapter 6 includes a high-level summary of condition-driven projects that resulted from this effort, escalated to December 2021 dollars. The originally projected project timing for the identified near-term and long-term condition-driven projects is summarized in Tables 7.4 and 7.5 , respectively. Project costs have been escalated in both tables based on simple escalation between February 2021 and December 2021.

Near-and long term condition-driven project costs are further escalated to December 2026 dollars ( $\$ 55.6 \mathrm{M}$ ) with use of a projected average annual interest rate of 4.5 percent.

[^22]Table 7.4 Summary of Near-Term Condition-Driven Facility Needs

| Process Area | Required Improvement | Timeline for Implementation ${ }^{(1)}$ | Estimated Project Cost ${ }^{(2)}$ |
| :---: | :---: | :---: | :---: |
| Primary Treatment | Basin rehabilitation ${ }^{(3)}$ Equipment replacement ${ }^{(4)}$ | < 5 years | \$3,680,000 |
| Aeration | Equipment replacement ${ }^{(5)}$ | < 5 years | \$880,000 |
| Secondary Treatment | Equipment replacement ${ }^{(6)}$ | < 5 years | \$980,000 |
| Disinfection | Equipment replacement ${ }^{(7)}$ | < 5 years | \$840,000 |
| Chemical Building | Equipment replacement ${ }^{(8)}$ | < 5 years | \$190,000 |
| Solids Thickening | Equipment replacement ${ }^{(9)}$ | < 5 years | \$350,000 |
| Solids Digestion | Equipment replacement ${ }^{(10)}$ | < 5 years | \$2,370,000 |
| Solids Dewatering | Equipment replacement ${ }^{(11)}$ | < 5 years | \$540,000 |
| Plant Power Systems | Equipment replacement ${ }^{(12)}$ | < 5 years | \$10,000 |
| Other Plant Systems | Equipment replacement ${ }^{(13)}$ | < 5 years | \$740,000 |
| Total Near-Term Required Capital Investment \$10,580,000 |  |  |  |
| Notes: |  |  |  |
| (1) These recommendations were originally made (as listed) in 2018. |  |  |  |
| (2) Costs are escalated from those presented in the WPCP Strategic Planning Report based on December 2021 dollars using an ENR-CCI 20 Cities Index of 12482. Original cost estimating assumptions and limitations are discussed therein. |  |  |  |
| (4) Includes replacement of sludge collector motor and chains for Primary Clarifier Nos. 1 and 2, pit pumps for Primary |  |  |  |
| (5) Includes replacement of Blower No. 7, air diffuser and air flow meters in Aeration Basin Nos. 3 and 4, PLC-B, and ancillary items. |  |  |  |
| (6) Includes replacement of sludge collectors for Secondary Clarifier Nos. 3 and 4, replacement of MCC-EP-1, MCC-P1, and PLC-R, and ancillary items. |  |  |  |
| (7) Includes replacement of flash mixers for Chlorine Contact Basin Nos. 3 and 4, gates and actuators, flow meters, sampling pumps, PLC-C, and ancillary items. |  |  |  |
| (8) Includes replacement of CSS Pump Nos. 1 and 2, SBH Recirculation Pump No. 1, SHS Pump No. 1, PLC-C, and ancillary items. |  |  |  |
| (9) Includes replacement of Recycle Pressurization Pump Nos. 1-4, air compressors for DAFT Nos. 1 and 2, polymer feed system, MCC-EP5, PLC-B-//02, and miscellaneous items. |  |  |  |
| (10) Includes improvements to Boiler Building No. 2 and replacement of Sludge Heater Nos. 1-3, digester gas flow meters, PLC-D, and ancillary items. |  |  |  |
| (11) Includes replacement of Screw Conveyor No. 1, solids grinder, miscellaneous exhaust/supply fans, flow meters, and unit heaters, PLC-B2-I/02, and ancillary items. |  |  |  |
| (12) Includes replacement of LCP-PCP-47. |  |  |  |
| (13) Includes replacement of Deep Well Pump Nos. 1 and 2, MCC-PC/EP-2, and ancillary items. |  |  |  |

Table 7.5 Summary of Long-Term Condition-Driven Facility Needs

| Process Area | Required Improvement | Timeline for Implementation ${ }^{(1)}$ | Estimated Project Cost ${ }^{(2)}$ |
| :---: | :---: | :---: | :---: |
| Headworks | Equipment rehabilitation/replacement ${ }^{(3)}$ | 2029-2039 | \$3,180,000 |
| Primary Treatment | Equipment replacement ${ }^{(4)}$ | 2025-2039 | \$4,160,000 |
| Aeration | Equipment replacement ${ }^{(5)}$ | 2027-2039 | \$1,900,000 |
| Secondary Treatment | Equipment replacement ${ }^{(6)}$ | 2027-2039 | \$2,390,000 |
| Disinfection | Equipment replacement ${ }^{(7)}$ | 2027-2039 | \$1,080,000 |
| Chemical Building | Equipment replacement ${ }^{(8)}$ | 2029-2038 | \$510,000 |
| Solids Thickening | Equipment replacement ${ }^{(9)}$ | 2027-2039 | \$1,210,000 |
| Solids Digestion | Equipment replacement ${ }^{(10)}$ | 2027-2040 | \$6,210,000 |
| Solids Dewatering | Equipment replacement ${ }^{(11)}$ | 2027-2039 | \$5,790,000 |
| Plant Power Systems | Equipment replacement ${ }^{(12)}$ | 2027-2039 | \$7,210,000 |
| Other Plant Systems | Equipment replacement ${ }^{(13)}$ | 2027-2039 | \$420,000 |
| Total Long-Term Required Capital Investment |  |  | \$34,060,000 |

## Notes:

(1) These recommendations were originally made (as listed) in 2018.
(2) Costs are escalated from those presented in the WPCP Strategic Planning Report based on December 2021 dollars using an ENR-CCI 20 Cities Index of 12482. Original cost estimating assumptions and limitations are discussed therein.
(3) Includes replacement of major mechanical equipment items (shaftless screw conveyor, mechanical bar screens, screenings washer/compactors, vortex grit chamber drives, grit cyclone separators, ferric facility pumps biofilter fans, grit basement exhaust and supply fans, flow meters/transmitters, sump pumps, analyzers, samplers, etc.) (in 2029); and replacement of grit pumps, channel gates, and MCC-P14 (in 2039).
(4) Includes rehabilitation of Primary Clarifier No. 3 (motor and chains, sludge collector drives, chains, etc), replacement of Primary Effluent Pumps Nos. 1-3 (with new VFDs), and ancillary items (in 2027); replacement of MCC-EP7 and PLC-X (in 2029); miscellaneous items (2030-2036); and replacement of Primary Effluent Pump No. 4 and MCC-P13 (in 2039).
(5) Includes replacement of tank inlet/outlet gates and MCC-P8 (in 2027); DO meters (in 2028); air diffusers and flow meters for Aeration Basin Nos. 5 and 6, exhaust and supply fans for Blower Building No. 2, and PLC-BB (in 2029); air inlet and blow off valves (in 2032); miscellaneous items (2034-2036); and Blower No. 8, and inlet and outlet gates for Aeration Basin Nos. 5 and 6 (in 2039).
(6) Includes replacement of sludge collector drive for Secondary Clarifier No. 3, RAS Pump Nos. 4-7, MCC-P11A, and SWGP-1 (in 2027); MCC-P11 and PLC-RR (in 2029); miscellaneous flow meters and heat pumps (in 2036); and the sludge collector drive for Secondary Clarifier No. 5, RAS Pump No. 9, and Secondary Scum Pump No. 5 (in 2039).
(7) Includes replacement of sluice gates (in 2027), miscellaneous flow meters, analyzers, and sample pumps (2028-2035), and the hydraulic power unit and sluice gates (in 2039).
(8) Includes replacement of MCC-P12, SBS recirculation Pump No. 2, and miscellaneous heat pumps, unit heaters, exhaust fans, and instrumentation (in 2029); and replacement of SBS Pump Nos. 1 and 2 and SHS Pumps 2-4 (in 2038).
(9) Includes replacement of DAFT No. 2 collector drive, TWAS Pump Nos. 1-4, Thickened Sludge Grinder Nos. 1 and 2, instrumentation for DAFT Nos. 1 and 2, and MCC-P13 (in 2029); DAFT No. 1 collector drive (in 2032); and Thickened Sludge Pump Nos. 1 and 2 (in 2039).
(10) Includes replacement of Digester No. 3, most digester transfer/recirculation pumps and Sludge Mixing Pump Nos. 1-3 (in 2027); MCC-P15, MCC-P9, PLC-X, and miscellaneous items (in 2029); miscellaneous flow meters, inlet valves (2030-2036); and Digester Transfer Pump No. 2, Sludge Mixing Pump No. 4, Digester Recirculation Pump No. 3, and Hot Water Loop Pump Nos. 1-3 (in 2039).
(11) Includes replacement of Centrifuge No. 1 and miscellaneous control and starter panels (in 2027); Screw Conveyor Nos. 2 and 3, Polymer Mixing Pump Nos. 1-2, Polymer Blending Pump Nos. 1-2, and MCC-P10 (in 2029); miscellaneous items (2030-2037); and Centrifuge No. 2, Centrifuge Feed Pump Nos. 1-2, and ancillary items (in 2039).
(12) Includes replacement of solar power system, Switchboard-P2, Transformer No. 1, and Standby Generator No. 2 Control Panel (in 2027); Substation No. 1, Panel-P9A, and miscellaneous electrical items (in 2029); the cogeneration unit (in 2034); Standby Generator No. 2 and the synchronizer panel for Generator Nos. 1-2 (in 2037); and the cogeneration hot water loop and control panels for Standby Generator No. 3 and 4 (in 2039).
(13) Includes replacement of 3 W Pump Nos. 1-4 and main hot water pumps (in 2027); miscellaneous items (2029-2032), and 3W Pump No. 5 (in 2039).

### 7.3.1 Limitations of Condition Analysis

The assessment of condition-driven facility needs is based on observations from 2018, with initial project scheduled for implementation starting in 2021, though 2040 (the previous planning period). Project costs were escalated for this planning effort, but projected timelines were not adjusted. Additionally, the City will encounter additional rehabilitation and/or replacement needs within the new planning period (that extends through 2057) that have not been identified herein. It is recommended that the City conduct an updated analysis to determine long-term facility needs as near-term condition-driven projects are completed.

### 7.4 Capital Improvement Project Summary

Capital need projections are included herein to supplement the City's sewer rate study, providing sustainable budgets for current and projected WPCP needs through updated sewer fees. All recommended projects are summarized in Table 7.6.

Exhibit 4 - Regionalization Planning Report

Table 7.6 Summary of Recommended Project and Project Cost

| Projected Timeline for Implementation | Capacity Improvements | Project Driver | Estimated Project Cost ${ }^{(1)}$ |
| :---: | :---: | :---: | :---: |
| 2021 | Aeration and Primary Treatment Upgrades Recommended by $2023^{(2)}$ | Condition | \$1,870,000 |
| 2022 | Disinfection, Chemical Building, Solids Thickening and Dewatering, Plant Power Systems, and Other Plant Systems Upgrades Recommended by 2023 ${ }^{(2)}$ | Condition | \$2,670,000 |
| 2023 | Solids Digestion Upgrades Recommended by $2023{ }^{(2)}$ | Condition | \$2,370,000 |
| 2025 | Primary Treatment Upgrades Recommended by $2025^{(2)}$ | Condition | \$3,680,000 |
| 2025 | Recycled Water Feasibility Study | Strategic | \$530,000 |
| 2027 | Emergency Effluent Bypass, Storage, and Return Improvements | Regulatory | \$8,460,000 |
| 2027 | Condition Driven Upgrades Recommended in 2027 ${ }^{(2)}$ | Condition | \$7,640,000 |
| 2028 | Secondary Clarifier \#6 ${ }^{(3)}$ (fourth clarifier in Plant 2) | Capacity | \$10,700,000 |
| 2028 | Condition Driven Upgrades Recommended in $2028{ }^{(2)}$ | Condition | \$3,240,000 |
| 2029 | Condition Driven Upgrades Recommended in 2029 ${ }^{(2)}$ | Condition | \$5,390,000 |
| 2032 | Modified MLE process upgrades | Regulatory | \$4,350,000 |
| 2033 | Condition Driven Upgrades Recommended in 2033 ${ }^{(2)}$ | Condition | \$3,520,000 |
| 2032 | Supplemental Carbon Project | Capacity | \$400,000 |
| 2033 | Chlorine Contact Basin | Capacity | \$5,100,000 |
| 2033 | Chemical Storage and Feed Facility Improvements (SHS and SBS) | Capacity | \$1,600,000 |
| 2036 | Southern Pond Improvements for Secondary Expansion | Capacity | \$900,000 |
| 2036 | Secondary Clarifier \#7 ${ }^{(4)}$ (fifth clarifier in Plant 2) | Capacity | \$13,400,000 |
| 2036 | RAS/WAS Pump Station and Electrical Building ${ }^{(5)}$ | Capacity | \$1,600,000 |
| 2038 | Parallel Primary Effluent Force Main Improvements | Capacity | \$1,100,000 |
| 2039 | Secondary Clarifier \#8 ${ }^{(4)}$ (sixth clarifier in Plant 2) | Capacity | \$13,400,000 |


| Projected Timeline for Implementation | Capacity Improvements | Project Driver | Estimated Project Cost ${ }^{(1)}$ |
| :---: | :---: | :---: | :---: |
| 2039 | Condition Driven Upgrades Recommended in 2039 ${ }^{(2)}$ | Condition | \$10,460,000 |
| 2040 | Anaerobic Digester $3^{(2)}$ | Condition | \$3,800,000 |
| 2042 | Tertiary filtration ${ }^{(6)}$ | Regulatory | \$22,710,000 |
| 2044 | Aeration Tank \#5 ${ }^{(7)}$ | Capacity | \$15,600,000 |
| 2044 | Blower and Electrical Building ${ }^{(5)}$ | Capacity | \$6,300,000 |
| 2044 | Standby Generator | Capacity | \$1,500,000 |
| 2045 | Primary Clarifier \#4 | Capacity | \$5,000,000 |
| 2047 | Alternate Disinfection ${ }^{(6)}$ | Regulatory | \$40,800,000 |
| 2053 | Aeration Tank \#6 ${ }^{(7)}$ | Capacity | \$15,600,000 |
| 2054 | Primary Effluent Lift Station Improvements | Capacity | \$2,100,000 |
| 2054 | Bar Screen \#3 | Capacity | \$600,000 |
| Total Required Capital Investment |  |  | \$216,360,000 |

Notes:
(1) Costs are in December 2021 dollars based on ENR-CCI CCI of 12482.
(2) Refer to Chapter 6 for condition-driven project specific details.
(3) 100-foot diameter secondary clarifier.
(4) 125 -foot diameter secondary clarifier.
(5) Based on Secondary Treatment Expansion Option 3 layout (Chapter 4)
(6) Sized for peak flow of 39.6 mgd .
(7) With denitrification improvements (MLE).

Figures 7.1 and 7.2 depict the capital investment needs per category (condition, capacity, and regulatory-driven facility needs) and total projected annual spending needs over the planning horizon (through 2057), respectively.


Figure 7.1 Projected Capital Investment by Spending Category


Figure 7.2 Total Annual Capital Spending through Planning Horizon

## Exhibit 4 - Regionalization Planning Report

-This Page Intentionally Left Blank-

Appendix A
COST ESTIMATES
-This Page Intentionally Left Blank-

## BASIS OF COST ESTIMATES

Construction costs included in this report were estimated using unit costs developed from previous construction contracts, estimating guides, unit prices, and construction costs of similar facilities and process configuration at other locations. Using these sources, adjusted capital costs were developed.

Construction costs have historically escalated with time. This trend is expected to continue in the future. To record these trends in rising costs, several indices have been established for various fields of construction. The most commonly used standard barometer of construction cost changes is the Engineering News Report's Construction Cost Index (ENR-CCI). Capital costs for the alternative analysis are based on the December 202120-Cities ENR-CCI of 12482, and the R.S. Means Location Factor for Redding, CA, of 1.185 (an index which represents the relative geographic difference in materials pricing and cost of labor between individual cities as compared to a standard factor). Redding currently represents the closest and most appropriate location factor for estimating construction costs in Chico.

Costs within this section were developed following the AACE International Recommended Practice No. 18R-97 for a Class 5 estimate level. According to AACE International, a "Class 5 Estimate" is defined as an estimate used for screening or feasibility studies during 0 to 2 percent project completion with an expected accuracy of +50 percent to -30 percent in relation to the actual completed project cost.

Table 1 includes a summary of cost estimating factors and contingencies used in the preparation of each cost estimate.

Table A. 1 Cost Estimating Factors and Contingencies

|  | Item | Value |
| :--- | :---: | :---: |
| Estimating Contingency | $40 \%$ |  |
| Contractor Overhead and Profit | $18 \%$ |  |
| General Conditions | $18 \%$ |  |
| Sales Tax | $7.250 \%$ |  |
| Project Cost Factor | $35 \%$ |  |
| ENR-CCI ${ }^{(1)}$ | 12482 |  |
| Location Factor ${ }^{(2)}$ | 1.185 |  |
| Notes: <br> (1) <br> December 2021 ENR-CCI 20Cities. <br> (2) <br> Location Factor for Redding, CA. |  |  |

## CAPACITY-DRIVEN PROJECT COST ESTIMATES

Table A. 2 Headworks Bar Screen Project Cost Estimate

| Description | Qty | Unit | Unit Cost | Total |
| :--- | :---: | :---: | :---: | :---: |
| Equipment ${ }^{(1)}$ | 1 | LS | $\$ 225,000$ | $\$ 225,000$ |
| Installation | 25 | $\%$ | $\$ 56,250$ | $\$ 56,000$ |
| EI\&C | 20 | $\%$ | $\$ 45,000$ | $\$ 45,000$ |
| Total Direct Costs |  |  |  | $\$ 326,000$ |
| Contingency | $40 \%$ | $\$ 49,000$ |  |  |
|  |  | $18 \%$ | $\$ 375,000$ |  |
| Contractor Overhead \& Profit | $18 \%$ | $\$ 68,000$ |  |  |
| General Conditions | $7.25 \%$ | $\$ 68,000$ |  |  |
| Sales Tax on 50\% |  |  | $\$ 14,000$ |  |
| Total Construction Cost | $35 \%$ | $\$ 500,000$ |  |  |
| Project Cost Factor |  | $\$ 79,000$ |  |  |
| Total Project Cost ${ }^{(2)}$ |  | $\$ 600,000$ |  |  |

Notes:
(1) Fine screen with 18 MGD capacity, matching existing screens.
(2) Costs are in December 2021 dollars based on ENR-CCI CCI of 12482.

Table A. 3 Primary Clarifier Project Cost Estimate

| Description | Qty | Unit | Unit Cost | Total |
| :--- | :---: | :---: | :---: | :---: |
| Primary Clarifier ${ }^{(1)}$ | 38,000 | $\mathrm{ft}^{3}$ | $\$ 38$ | $\$ 1,459,000$ |
| Site Work | 1 | LS | $\$ 95,000$ | $\$ 95,000$ |
| Valving/Mechanical | 1 | LS | $\$ 58,000$ | $\$ 58,000$ |
| Yard Piping | 1 | LS | $\$ 117,000$ | $\$ 117,000$ |
| EI\&C | 1 | LS | $\$ 168,000$ | $\$ 168,000$ |
| Total Direct Costs |  |  |  | $\$ 1,897,000$ |
| Contingency |  | $180 \%$ | $\$ 759,000$ |  |
|  |  |  |  | $\$ 2,656,000$ |
| Contractor Overhead \& Profit |  |  |  | $\$ 478,000$ |
| General Conditions |  |  |  | $\$ 478,000$ |
| Sales Tax on 50\% |  |  | $\$ 96,000$ |  |
| Total Construction Cost |  |  |  | $\$ 1,298,000$ |
| Project Cost Factor |  |  | $\$ 5,000,000$ |  |
| Total Project Cost ${ }^{(2)}$ |  |  |  |  |

Notes:
(1) Estimated from cost curve from construction bid tabs for primary clarifiers.
(2) Costs are in December 2021 dollars based on ENR-CCI CCI of 12482.

## Exhibit 4 - Regionalization Planning Report

Table A. 4 Aeration Tank Project Cost Estimate

| Description | Qty | Unit | Unit Cost | Total |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Aeration Tank ${ }^{(1)}$ | 176,600 | $\mathrm{ft}^{3}$ | $\$ 24$ | $\$ 4,238,000$ |
| Site Work | 1 | LS | $\$ 275,000$ | $\$ 275,000$ |
| Valving/Mechanical | 1 | LS | $\$ 170,000$ | $\$ 170,000$ |
| Yard Piping | 1 | LS | $\$ 424,000$ | $\$ 424,000$ |
| EI\&C | 1 | LS | $\$ 572,000$ | $\$ 572,000$ |
| Total Direct Costs |  |  |  | $\$ 5,509,000$ |
| Contingency |  | $40 \%$ | $\$ 2,204,000$ |  |
|  |  | $18 \%$ | $\$ 7,713,000$ |  |
| Contractor Overhead \& Profit |  | $7.25 \%$ |  | $\$ 1,388,000$ |
| General Conditions |  |  |  | $\$ 1,388,000$ |
| Sales Tax on 50\% |  |  |  | $\$ 280,000$ |
| Total Construction Cost |  |  |  | $\$ 3,769,000$ |
| Project Cost Factor |  |  | $\$ 14,500,000$ |  |
| Total Project Cost ${ }^{(2)}$ |  |  |  |  |

Notes:
(1) Estimated from cost curve from construction bid tabs for aeration tanks.
(2) Costs are in December 2021 dollars based on ENR-CCI CCI of 12482.

Table A. 5 Supplemental Carbon Project Cost Estimate

| Description | Oty | Unit | Unit Cost | Total |
| :--- | :---: | :---: | :---: | :---: |
| Carbon Storage Tote/Rack | 1 | LS | $\$ 85,000$ | $\$ 80,000$ |
| Pumping Equipment |  |  | $\$ 25,000$ | $\$ 25,000$ |
| Installation | 25 | $\%$ | $\$ 27,500$ | $\$ 28,000$ |
| EI\&C | 20 | $\%$ | $\$ 22,000$ | $\$ 22,000$ |
| Total Direct Costs |  | $40 \%$ | $\$ 160,000$ |  |
| Contingency |  |  | $\$ 64,000$ |  |
|  | $18 \%$ | $\$ 223,000$ |  |  |
| Contractor Overhead \& Profit | $18 \%$ | $\$ 40,000$ |  |  |
| General Conditions | $7.25 \%$ | $\$ 40,000$ |  |  |
| Sales Tax on 50\% |  |  | $\$ 8,000$ |  |
| Total Construction Cost | $35 \%$ | $\$ 300,000$ |  |  |
| Project Cost Factor |  |  | $\$ 78,000$ |  |
| Total Project Cost ${ }^{(1)}$ |  |  | $\$ 400,000$ |  |

Notes:
(1) Costs are in December 2021 dollars based on ENR-CCI CCI of 12482.

Table A. 6 Secondary Clarifier Project Cost Estimate

| Description | Oty | Unit | Unit Cost | Total |
| :---: | :---: | :---: | :---: | :---: |
| Secondary Clarifier ${ }^{(1)}$ | 110,000 | $\mathrm{ft}^{3}$ | \$28 | \$3,132,000 |
| Site Work | 1 | LS | \$204,000 | \$204,000 |
| Yard Piping |  |  | \$313,000 | \$313,000 |
| EI\&C | 1 | LS | \$423,000 | \$423,000 |
| Total Direct Costs |  |  |  | \$4,072,000 |
| Contingency |  | 40\% |  | \$1,629,000 |
| Subtotal |  |  |  | \$5,700,000 |
| Contractor Overhead \& Profit |  | 18\% |  | \$1,026,000 |
| General Conditions |  | 18\% |  | \$1,026,000 |
| Sales Tax on 50\% |  | 7.25\% |  | \$207,000 |
| Total Construction Cost |  |  |  | \$8,000,000 |
| Project Cost Factor |  | 35\% |  | \$2,786,000 |
| Total Project Cost ${ }^{(3)}$ |  |  |  | \$10,700,000 ${ }^{(3)}$ |

Notes:
(1) Estimated from cost curve from construction bid tabs for secondary clarifiers.
(2) Costs are in December 2021 dollars based on ENR-CCI CCI of 12482.
(3) Estimated Project Cost is for 100 -ft diameter secondary clarifier. The estimated project cost for a 125 -ft diameter secondary clarifier (Option 3 ) is $\$ 13.4 \mathrm{M}$.

Table A. 7 RAS/WAS Pump Station and Electrical Building Project Cost Estimate ${ }^{(1)}$

| Description | Oty | Unit | Unit Cost | Total |
| :---: | :---: | :---: | :---: | :---: |
| RAS Pumps | 3 | EA | \$45,000 | \$135,000 |
| WAS Pumps | 2 | EA | \$20,000 | \$40,000 |
| Piping/Valving | 25 | \% | \$43,750 | \$44,000 |
| Electrical Building | 1 | LS | \$200,000 | \$200,000 |
| Installation | 25 | \% | \$104,700 | \$105,000 |
| EI\&C | 20 | \% | \$83,750 | \$84,000 |
| Total Direct Costs |  |  |  | \$607,000 |
| Contingency |  | 40\% |  | \$243,000 |
| Subtotal |  |  |  | \$850,000 |
| Contractor Overhead \& Profit |  | 18\% |  | \$183,000 |
| General Conditions |  | 18\% |  | \$183,000 |
| Sales Tax on 50\% |  | 7.25\% |  | \$37,000 |
| Total Construction Cost |  |  |  | \$1,300,000 |
| Project Cost Factor |  | 35\% |  | \$313,000 |
| Total Project Cost ${ }^{(2)}$ |  |  |  | \$1,600,000 ${ }^{(3)}$ |

(1) Based on Option 3 Secondary Treatment Expansion Layout.
(2) Costs are in December 2021 dollars based on ENR-CCI CCI of 12482.
(3) Estimated Project Cost for Option 1 and Option 2 Secondary Treatment Expansion Layout is $\$ 1.8$ and $\$ 1.4$ million, respectively.

Table A. 8 Blower and Electrical Building Project Cost Estimate ${ }^{(1)}$

| Description | Oty | Unit | Unit Cost | Total |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Blower Building | 1 | EA | $\$ 350,000$ | $\$ 350,000$ |
| Blowers | 3 | EA | $\$ 300,000$ | $\$ 900,000$ |
| Air Header Piping | 150 | LF | $\$ 250$ | $\$ 38,000$ |
| Valving/Mechanical | 15 | $\%$ | $\$ 193,100$ | $\$ 193,000$ |
| Electrical Gear | 1 | LS | $\$ 300,000$ | $\$ 300,000$ |
| Installation | 25 | $\%$ | $\$ 445,200$ | $\$ 445,000$ |
| El\&C | 20 | $\%$ | $\$ 356,100$ | $\$ 356,000$ |
| Total Direct Costs |  |  |  | $\$ 2,582,000$ |
| Contingency |  | $18 \%$ |  | $\$ 1,033,000$ |
|  |  | $18 \%$ |  | $\$ 3,615,000$ |
| Contractor Overhead \& Profit |  |  |  | $\$ 651,000$ |
| General Conditions |  |  |  | $\$ 651,000$ |
| Sales Tax on 50\% |  |  |  | $\$ 5131,000$ |
| Total Construction Cost |  |  |  | $\$ 6,300,000,000$ |
| Project Cost Factor |  |  |  |  |
| Total Project Cost ${ }^{(2)}$ |  |  |  |  |

Notes:
(1) Based on Option 3 Secondary Treatment Expansion Layout.
(2) Costs are in December 2021 dollars based on ENR-CCI CCI of 12482.
(3) Estimated Project Cost for Option 1 and Option 2 Secondary Treatment Expansion Layout is $\$ 6.3$ (same as Option 3) and $\$ 7.2$ million, respectively.

Table A. 9 Southern Pond Improvements for Secondary Expansion Project Cost Estimate

| Description | Oty | Unit | Unit Cost | Total |
| :---: | :---: | :---: | :---: | :---: |
| Effluent Line to Southwest Pond | 500 | FT | \$250,000 | \$125,000 |
| Pond Inlet Structures | 2 | EA | \$60,000 | \$120,000 |
| Installation | 25 | \% | \$68,750 | \$61,000 |
| EI\&C | 20 | \% | \$55,000 | \$49,000 |
| Total Direct Costs |  |  |  | \$355,000 |
| Contingency |  | 40\% |  | \$142,000 |
| Subtotal |  |  |  | \$497,000 |
| Contractor Overhead \& Profit |  | 18\% |  | \$90,000 |
| General Conditions |  | 18\% |  | \$90,000 |
| Sales Tax on 50\% |  | 7.25\% |  | \$18,000 |
| Total Construction Cost |  |  |  | \$700,000 |
| Project Cost Factor |  | 35\% |  | \$174,000 |
| Total Project Cost ${ }^{(1)}$ |  |  |  | \$900,000 |

Notes:
(1) Costs are in December 2021 dollars based on ENR-CCI CCI of 12482.

## Exhibit 4 - Regionalization Planning Report

Table A. 10 Standby Generator Project Cost Estimate

| Description | Oty | Unit | Unit Cost | Total |
| :---: | :---: | :---: | :---: | :---: |
| Standby Generator | 1 | EA | \$250,000 | \$250,000 |
| Structural | 1 | EA | \$75,000 | \$75,000 |
| Fuel Storage | 1 | EA | \$50,000 | \$50,000 |
| Valving/Mechanical | 15 | \% | \$56,300 | \$56,000 |
| Installation | 25 | \% | \$107,800 | \$108,000 |
| EI\&C | 20 | \% | \$86,300 | \$86,000 |
| Total Direct Costs |  |  |  | \$625,000 |
| Contingency |  | 40\% |  | \$250,000 |
| Subtotal |  |  |  | \$875,000 |
| Contractor Overhead \& Profit |  | 18\% |  | \$158,000 |
| General Conditions |  | 18\% |  | \$158,000 |
| Sales Tax on 50\% |  | 7.25\% |  | \$32,000 |
| Total Construction Cost |  |  |  | \$1,200,000 |
| Project Cost Factor |  | 35\% |  | \$306,000 |
| Total Project Cost ${ }^{(1)}$ |  |  |  | \$1,500,000 |

Notes:
(1) Costs are in December 2021 dollars based on ENR-CCI CCI of 12482.

Table A. 11 Chlorine Contact Basin Project Cost Estimate

| Description | Qty | Unit | Unit Cost | Total |
| :--- | :---: | :---: | :---: | :---: |
| Chlorine Contact Basin | 1 | EA | $\$ 950,000$ | $\$ 3,132,000$ |
| Inlet Basin Modifications | 1 | EA | $\$ 100,000$ | $\$ 100,000$ |
| Chemical mixing/valves/mechanical | 15 | $\%$ | $\$ 157,500$ | $\$ 158,000$ |
| Site Work | 15 | $\%$ | $\$ 181,200$ | $\$ 181,000$ |
| Installation | 25 | $\%$ | $\$ 347,200$ | $\$ 347,000$ |
| EI\&C | 20 | $\%$ | $\$ 241,500$ | $\$ 242,000$ |
| Bypass Pumping | 1 | LS | $\$ 100,000$ | $\$ 100,000$ |
| Total Direct Costs |  |  |  | $\$ 2,077,000$ |
| Contingency |  | $18 \%$ |  | $\$ 831,000$ |
|  |  | $18 \%$ |  | $\$ 2,908,000$ |
| Contractor Overhead \& Profit |  |  |  | $\$ 523,000$ |
| General Conditions |  |  |  | $\$ 105,000$ |
| Sales Tax on 50\% |  |  |  | $\$ 4,100,000$ |
| Total Construction Cost |  |  |  | $\$ 1,015,000$ |
| Project Cost Factor |  |  |  |  |
| Total Project Cost ${ }^{(1)}$ |  |  |  |  |

Notes:
(1) Costs are in December 2021 dollars based on ENR-CCI CCI of 12482.

## Exhibit 4 - Regionalization Planning Report

Table A. 12 SHS/SBS Storage and Feed Facility and Outfall Box Modification Project Cost Estimate

| Description | Qty | Unit | Unit Cost | Total |
| :--- | :---: | :---: | :---: | :---: |
| Chemical Building Modifications | 1 | EA | $\$ 100,000$ | $\$ 100,000$ |
| Chemical Tanks | 2 | EA | $\$ 75,000$ | $\$ 150,000$ |
| Chemical Pumps | 2 | EA | $\$ 15,000$ | $\$ 30,000$ |
| Outfall Box Modifications | 1 | EA | $\$ 100,000$ | $\$ 100,000$ |
| Piping/valving/mechanical | 20 | $\%$ | $\$ 76,000$ | $\$ 76,000$ |
| Installation | 25 | $\%$ | $\$ 114,000$ | $\$ 114,000$ |
| EI\&C | 20 | $\%$ | $\$ 91,200$ | $\$ 92,000$ |
| Total Direct Costs |  |  |  | $\$ 661,000$ |
| Contingency |  |  |  | $\$ 0 \%$ |
|  | $18 \%$ |  | $\$ 926,000$ |  |
| Contractor Overhead \& Profit |  | $7.25 \%$ |  | $\$ 167,000$ |
| General Conditions |  |  |  | $\$ 367,000$ |
| Sales Tax on 50\% |  |  |  | $\$ 1,300,000$ |
| Total Construction Cost |  |  |  | $\$ 1,600,000$ |
| Project Cost Factor |  |  |  |  |
| Total Project Cost ${ }^{(1)}$ |  |  |  |  |

Notes:
(1) Costs are in December 2021 dollars based on ENR-CCI CCI of 12482.

Table A. 13 Primary Effluent Lift Station Improvements Project Cost Estimate

| Description | Oty | Unit | Unit Cost | Total |
| :---: | :---: | :---: | :---: | :---: |
| Structure Modifications | 1 | EA | \$250,000 | \$250,000 |
| PE Pump | 1 | EA | \$150,000 | \$150,000 |
| Valving/Mechanical | 15 | \% | \$60,000 | \$60,000 |
| Installation | 25 | \% | \$115,000 | \$115,000 |
| EI\&C | 20 | \% | \$92,000 | \$92,000 |
| Bypass Pumping | 1 | LS | \$250,000 | \$250,000 |
| Total Direct Costs |  |  |  | \$917,000 |
| Contingency |  | 40\% |  | \$347,000 |
| Subtotal |  |  |  | \$1,214,000 |
| Contractor Overhead \& Profit |  | 18\% |  | \$218,000 |
| General Conditions |  | 18\% |  | \$218,000 |
| Sales Tax on 50\% |  | 7.25\% |  | \$44,000 |
| Total Construction Cost |  |  |  | \$1,700,000 |
| Project Cost Factor |  | 35\% |  | \$424,000 |
| Total Project Cost ${ }^{(1)}$ |  |  |  | \$2,100,000 |

Notes:
(1) Costs are in December 2021 dollars based on ENR-CCI CCI of 12482.

Table A. 14 Primary Effluent Force Main Project Cost Estimate

| Description | Oty | Unit | Unit Cost | Total |
| :---: | :---: | :---: | :---: | :---: |
| Force Main between PELS and ATs | 600 | FT | \$450 | \$270,000 |
| Installation ${ }^{(1)}$ | 40 | \% | \$108,000 | \$108,000 |
| EI\&C | 20 | \% | \$54,000 | \$54,000 |
| Total Direct Costs |  |  |  | \$432,000 |
| Contingency |  | 40\% |  | \$173,000 |
| Subtotal |  |  |  | \$605,000 |
| Contractor Overhead \& Profit |  | 18\% |  | \$109,000 |
| General Conditions |  | 18\% |  | \$109,000 |
| Sales Tax on 50\% |  | 7.25\% |  | \$22,000 |
| Total Construction Cost |  |  |  | \$800,000 |
| Project Cost Factor |  | 35\% |  | \$211,000 |
| Total Project Cost ${ }^{(1)}$ |  |  |  | \$1,100,000 |
| Notes: <br> (1) Difficult installation. <br> (2) Costs are in December 2021 dollars based | NR-CC |  |  |  |

## REGULATORY-DRIVENPROJECTCOSTESTIMATES

Table A. 15 MLE Project Cost Estimate

| Description | Oty | Unit | Unit Cost | Total |
| :---: | :---: | :---: | :---: | :---: |
| MLE Pump | 6 | EA | \$116,700 | \$700,000 |
| Submersible Mixer | 14 | EA | \$59,400 | \$832,000 |
| Valving/Mechanical | 15 | \% | \$229,800 | \$230,000 |
| Installation | 15 | \% | \$264,200 | \$264,000 |
| EI\&C | 15 | \% | \$264,200 | \$264,000 |
| Total Direct Costs |  |  |  | \$2,290,000 |
| Contingency |  | 40\% |  | \$916,000 |
| Subtotal |  |  |  | \$3,206,000 |
| Contractor Overhead \& Profit |  | 18\% |  | \$158,000 |
| General Conditions |  | 18\% |  | \$158,000 |
| Sales Tax on 50\% |  | 7.25\% |  | \$32,000 |
| Total Construction Cost |  |  |  | \$3,600,000 |
| Project Cost Factor |  | 35\% |  | \$888,000 |
| Total Project Cost ${ }^{(1)}$ |  |  |  | \$4,400,000 ${ }^{(2)}$ |

Notes:
(1) Costs are in December 2021 dollars based on ENR-CCI CCI of 12482.
(2) Total project cost is for retrofit of existing Aeration Tanks 3-6. An "MLE Addition" cost of $\$ 1.1 \mathrm{M}$ is extended to each AT that is included in the various Secondary Treatment Expansion Options.

Table A. 16 Emergency Bypass, Storage, and Return Improvements

| Description | Qty | Unit | Unit Cost | Total |
| :--- | :---: | :---: | :---: | :---: |
| Site Work | 1 | LS | $\$ 1,440,000$ | $\$ 1,440,000$ |
| Pump Station and Pipeline | 1 | LS | $\$ 1,600,000$ | $\$ 1,600,000$ |
| Bypass Pumping | 1 | LS | $\$ 425,000$ | $\$ 425,000$ |
| Total Direct Costs |  |  | $\$ 3,456,000$ |  |
| Contingency | $40 \%$ | $\$ 1,386,000$ |  |  |
|  |  | $\$ 4,851,000$ |  |  |
| Contractor Overhead \& Profit | $18 \%$ | $\$ 873,000$ |  |  |
| General Conditions | $7.25 \%$ | $\$ 873,000$ |  |  |
| Sales Tax on 50\% |  | $\$ 176,000$ |  |  |
| Total Construction Cost | $35 \%$ | $\$ 6,800,000$ |  |  |
| Project Cost Factor |  | $\$ 1,693,000$ |  |  |
| Total Project Cost ${ }^{(1)}$ |  | $\$ 8,500,000$ |  |  |
| Notes: <br> (1) $\quad$ Costs are in December 2021 dollars based on ENR-CCICCI of 12482. |  |  |  |  |

Table A. 17 Cloth Disk Filter Project Cost Estimate

| Description | Oty | Unit | Unit Cost | Total |
| :---: | :---: | :---: | :---: | :---: |
| Equipment ${ }^{(1)}$ | 1 | LS | \$2,957,000 | \$2,957,000 |
| Concrete | 1 | LS | \$690,000 | \$690,000 |
| Piping | 1 | LS | \$1,331,000 | \$1,331,000 |
| E\&IC | 1 | LS | \$1,183,000 | \$1,183,000 |
| Site Work | 1 | LS | \$616,000 | \$616,000 |
| Yard Piping | 1 | LS | \$616,000 | \$616,000 |
| Tertiary Lift Station | 1 | LS | \$1,200,000 | \$1,214,000 |
| Total Direct Cost |  |  |  | \$8,607,000 |
| Estimating Contingency | 40\% |  |  | \$3,443,000 |
| Subtotal |  |  |  | \$12,050,000 |
| Contractor Overhead \& Profit | 18\% |  |  | \$2,169,000 |
| General Conditions | 18\% |  |  | \$2,169,000 |
| Sales Tax on 50\% | 7.25\% |  |  | \$437,000 |
| Total Construction Cost |  |  |  | \$16,825,000 |
| Project Cost Factor | 35\% |  |  | \$5,889,000 |
| Total Project Cost ${ }^{(2)}$ |  |  |  | \$22,714,000 |

Notes:
(1) Equipment quote from vendor, with additional 20 percent added for installation.
(2) Costs are in December 2021 dollars based on ENR-CCI CCI of 12482.

Table A. 18 UV Capital Project Cost Estimate

|  | Description | Qty | Unit | Unit Cost |
| :--- | :---: | :---: | :---: | :---: |
| UV Equipment | 1 | LS | $\$ 6,207,000$ | $\$ 6,207,000$ |
| Site Work | 1 | LS | $\$ 621,000$ | $\$ 621,000$ |
| Structural | 1 | LS | $\$ 3,104,000$ | $\$ 3,104,000$ |
| Electrical, Instrumentation, and Controls | 1 | LS | $\$ 3,725,000$ | $\$ 3,725,000$ |
| Electrical Building | 1 | LS | $\$ 260,000$ | $\$ 260,000$ |
| Piping | 1 | LS | $\$ 1,552,000$ | $\$ 1,552,000$ |
| Total Direct Costs |  |  |  | $\$ 15,469,000$ |
| Contingency |  | $40 \%$ | $\$ 6,188,000$ |  |
|  | Subtotal |  | $18 \%$ |  |
| Contractor Overhead \& Profit |  | $18 \%$ |  | $\$ 3,657,000$ |
| General Conditions |  |  | $\$ 3,898,000$ |  |
| Sales Tax on 50\% |  |  | $\$ 785,000$ |  |
| Total Construction Cost |  | $\$ 30,200,000$ |  |  |
| Project Cost Factor |  | $\$ 10,538,000$ |  |  |
| Total Project Cost |  |  | $\$ 40,800,000$ |  |

Notes:
(1) Costs are in December 2021 dollars based on ENR-CCI CCI of 12482.

## Appendix B <br> DAILY DATA

-This Page Intentionally Left Blank-

| Date | $\begin{aligned} & \text { Butte } \\ & \text { Break? } \end{aligned}$ | $\begin{gathered} \text { csu } \\ \text { Break? } \end{gathered}$ | Precip? | $\begin{gathered} \min _{\substack{\text { Influent } \\ \text { Flow, mgd }}} \end{gathered}$ | $\begin{gathered} \text { Max } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | $\begin{gathered} \text { Avg } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | $\begin{gathered} \text { Min \% of } \\ \text { Avg } \end{gathered}$ | Min \% of | Avg \% of Max | $\begin{aligned} & \text { Flow } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | $\begin{aligned} & \text { Diurnal } \\ & \text { Peak } \\ & \text { Factor } \\ & \text { (DPF) } \end{aligned}$ | $\begin{gathered} \text { 30-d Avg } \\ \text { of Avg } \\ \text { Flow, mgd } \end{gathered}$ | 7-d Avg of Avg Flow, mgd | Influent TSS Conc., mg/L | $\begin{gathered} \text { Influent } \\ \text { BoD } \\ \text { Conc., } \\ \mathrm{mg} / \mathrm{L} \end{gathered}$ | $\begin{gathered} \text { BOD/TSS } \\ \text { Ratio } \end{gathered}$ | Influent NH3-N Conc., mg/L | $\begin{aligned} & \text { Avg } \operatorname{lnf} f \\ & \text { TSS Lood, } \\ & \text { ppod } \end{aligned}$ | $\begin{gathered} \text { Avg } \operatorname{lnf} \\ \text { BOD Load, } \\ \text { ppd } \end{gathered}$ | Avg lnf NH3 Load, ppd | $\begin{aligned} & \text { Load } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | 30-d Avg of TSS Load, ppd | 30-d Avg of BOD Load, ppd | 30-d Avg of NH3-N Load, ppd | non-SN TSS Load, ppd | non-SN BOD Load, ppd | $\begin{gathered} \text { non-SN } \\ , \begin{array}{c} \text { NH3 Load, } \\ \text { ppd } \end{array} \end{gathered}$ | $\begin{gathered} \text { 30-d Avg } \\ \text { of non-SN } \\ \text { TSS Load, } \\ \text { ppd } \end{gathered}$ | 30-d Avg of non-SN BOD Load, ppd | 30-d Avg of non-SN NH3-N Load, ppd |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5/1/2009 | FALSE | FALSE |  | 3.77 | 9.96 | 7.78 | 48\% | 38\% | 78\% |  | 1.28 |  |  | 237.00 | 202.00 | 0.85 |  | 15,374 | 13,103 |  |  |  |  |  | 15,374 | 13,103 |  |  |  |  |
| 5/2/2009 | FALSE | FALSE |  | 4.01 | 11.03 | 8.15 | 49\% | 36\% | 74\% |  | 1.35 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5/3/2009 | FALSE | FALSE |  | 4.22 | 11.01 | 7.99 | 53\% | 38\% | 73\% |  | 1.38 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5/4/2009 | FALSE | FALSE |  | 3.75 | 10.05 | 8.00 | 47\% | 37\% | 80\% |  | 1.26 |  |  | 184.00 |  |  |  | 12,273 |  |  |  |  |  |  | 12,273 |  |  |  |  |  |
| 5/5/2009 | FALSE | FALSE |  | 4.26 | 9.99 | 7.90 | 54\% | 43\% | 79\% |  | 1.26 |  |  | 167.00 | 132.00 | 0.79 |  | 11,009 | 8,701 |  |  |  |  |  | 11,009 | 8,701 |  |  |  |  |
| 5/6/2009 | FALSE | FALSE |  | 4.03 | 10.00 | 7.70 | 52\% | 40\% | 77\% |  | 1.30 |  |  |  |  |  | 16.17 |  |  | 1,038 |  |  |  |  |  |  | 1,038 |  |  |  |
| 5/7/2009 | FALSE | FALSE |  | 3.84 | 9.66 | 7.52 | 51\% | 40\% | 78\% |  | 1.28 |  |  | 248.00 | 231.00 | 0.93 |  | 15,562 | 14,495 |  |  |  |  |  | 15,562 | 14,495 |  |  |  |  |
| 5/8/2009 | FALSE | FALSE |  | 3.77 | 9.45 | 7.35 | 51\% | 40\% | 78\% |  | 1.29 |  |  | 263.00 |  |  |  | 16,113 |  |  |  |  |  |  | 16,113 |  |  |  |  |  |
| 5/9/2009 | FALSE | FALSE |  | 3.32 | 9.65 | 6.93 | 48\% | 34\% | 72\% |  | 1.39 |  | 7.7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5/10/2009 | FALSE | FALSE |  | 2.88 | 9.69 | 6.83 | 42\% | 30\% | 71\% |  | 1.42 |  | 7.5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5/11/2009 | FALSE | FALSE |  | 3.48 | 9.18 | 7.11 | 49\% | 38\% | 77\% |  | 1.29 |  | 7.4 | 355.00 |  |  |  | 21,056 |  |  | TSS |  |  |  | 21,056 |  |  |  |  |  |
| 5/12/2009 | FALSE | FALSE |  | 3.64 | 9.20 | 7.24 | 50\% | 40\% | 79\% |  | 1.27 |  | 7.3 | 272.00 | 199.00 | 0.73 |  | 16,415 | 12,099 |  |  |  |  |  | 16,415 | 12,009 |  |  |  |  |
| 5/13/2009 | FALSE | FALSE |  | 3.56 | 9.33 | 7.24 | 49\% | 38\% | 78\% |  | 1.29 |  | 7.2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5/14/2009 | FALSE | FALSE |  | 3.69 | 9.34 | 7.15 | 52\% | 40\% | 77\% |  | 1.31 |  | 7.2 | 318.00 | 221.00 | 0.69 |  | 18,957 | 13,175 |  |  |  |  |  | 18,957 | 13,175 |  |  |  |  |
| 5/15/2009 | FALSE | FALSE |  | 3.43 | 9.12 | 7.08 | 48\% | 38\% | 78\% |  | 1.29 |  | 7.1 | 194.00 |  |  | 20.84 | 11,462 |  | 1,231 |  |  |  |  | 11,462 |  | 1,231 |  |  |  |
| 5/16/2009 | FALSE | FALSE |  | 2.83 | 9.62 | 6.75 | 42\% | 29\% | 70\% | MinAvg | 1.43 |  | 7.1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5/17/2009 | FALSE | FALSE |  | 2.82 | 9.56 | 6.80 | 41\% | 29\% | 71\% | Minavg | 1.41 |  | 7.1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5/18/2009 | FALSE | FALSE |  | 3.14 | 8.96 | 7.12 | 44\% | 35\% | 79\% |  | 1.26 |  | 7.2 | 220.00 |  |  |  | 13,060 |  |  |  |  |  |  | 13,060 |  |  |  |  |  |
| 5/19/2009 | FALSE | FALSE |  | 3.70 | 9.80 | 7.18 | 52\% | 38\% | 73\% |  | 1.36 |  | 7.2 | 251.00 | 184.00 | 0.73 |  | 15,030 | 11,018 |  |  |  |  |  | 14,745 | 10,909 |  |  |  |  |
| 5/20/2009 | FALSE | FALSE |  | 3.36 | 9.32 | 7.25 | 46\% | 36\% | 78\% |  | 1.29 |  | 7.2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5/21/2009 | FALSE | FALSE |  | 3.42 | 9.16 | 7.23 | 47\% | 37\% | 79\% |  | 1.27 |  | 7.2 | 231.00 |  |  | 21.14 | 13,929 |  | 1,275 |  |  |  |  | 13,929 |  | 1,275 |  |  |  |
| 5/2/2009 | FALSE | FALSE |  | 3.48 | 9.33 | 7.23 | 48\% | 37\% | 77\% |  | 1.29 |  | 7.2 | 261.00 | 213.00 | 0.82 |  | 15,738 | 12,844 |  |  |  |  |  | 15,738 | 12,844 |  |  |  |  |
| 5/23/2009 | FALSE | FALSE |  | 3.30 | 9.60 | 6.94 | 48\% | 34\% | 72\% |  | 1.38 |  | 7.2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5/24/2009 | FALSE | ${ }_{\text {TRUE }}^{\text {TRUE }}$ |  | 3.17 2.64 | 9.33 | ${ }_{6}^{6.48}$ | 49\% | 34\% | ${ }^{69 \%}$ |  | 1.44 |  | 7.1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5/25/2009 | FALSE | TRUE |  | 2.64 | 9.63 | 6.63 | 40\% | 27\% | 69\% | MinAvg | 1.45 |  | 7.1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5/26/2009 | FALSE | TRUE |  | 3.19 | 8.60 | 6.85 | 47\% | 37\% | 80\% |  | 1.26 |  | 7.0 | 207.00 | 206.00 | 1.00 |  | 11,819 | 11,762 |  |  |  |  |  | 11,819 | 11,762 |  |  |  |  |
| 5/27/2009 | FALSE | TRUE |  | 3.37 | 8.61 | 6.82 | 49\% | 39\% | 79\% |  | 1.26 |  | 7.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5/28/2009 | ${ }_{\text {FALSE }}$ | ${ }_{\text {TRUE }}^{\text {TRUE }}$ |  | 3.51 | 8.61 | ${ }_{6}^{6.82}$ | 51\% | 41\% | 79\% |  | 1.26 |  | 6.9 | 209.00 |  |  | 19.88 | ${ }^{11,895}$ |  | 1,131 |  |  |  |  | 11,895 |  | 1,131 |  |  |  |
| 5/29/2009 | ${ }_{\text {TRUE }}$ | TRUE |  | 3.41 | 8.50 | 6.68 | 51\% | 40\% | 79\% |  | 1.27 |  | 6.8 | 312.00 |  |  |  | 17,382 |  |  |  |  |  |  | 17,382 |  |  |  |  |  |
| 5/30/2009 | TRUE | ${ }_{\text {TRUE }}^{\text {TRE }}$ |  | 2.99 | 8.89 | 6.39 | 47\% | 34\% | 72\% |  | 1.39 |  | 6.7 |  |  |  |  |  |  |  |  | 14,401 | 12,138 | 1,169 |  |  |  | 14,382 | 12,125 | 1,169 |
| 5/31/2009 | TRUE | TRUE |  | 2.70 | 8.81 | 6.40 | 42\% | 31\% | 73\% |  | 1.38 | 7.2 | 6.6 |  |  |  |  |  |  |  |  | 14,401 | 12,138 | 1,169 |  |  |  | 14,382 | 12,125 | 1,169 |
| 6/1/2009 $6 / 2 / 2009$ | ${ }_{\text {TRUE }}^{\text {TRUE }}$ | ${ }_{\text {TRUE }}^{\text {TRUE }}$ |  | 3.06 <br> 3.36 | 8.61 8.54 | 6.66 6.69 | 46\% $50 \%$ | 36\% | 77\% |  | 1.29 1.28 1 | 7.2 71 | 6.7 | 272.00 25000 |  |  |  | 15,108 13,957 |  |  |  | 14,383 14357 | 12,001 12,001 | 1,169 1,169 | 15,108 13,957 |  |  | 14,364 14339 | 11,985 111985 | 1,169 1,169 1,6 |
| 6/2/2009 | TRUE | TRUE |  | 3.36 | 8.54 | 6.69 | 50\% | 39\% | 78\% |  | $\begin{aligned} & 1.28 \\ & 1.22 \end{aligned}$ | $\begin{aligned} & 7.1 \\ & 7.1 \end{aligned}$ | $6.7$ | 250.00 |  |  |  | 13,957 |  |  |  | $\begin{aligned} & 14,357 \\ & 14,357 \end{aligned}$ | $\begin{aligned} & 12,001 \\ & 12,001 \end{aligned}$ | 1,169 | 13,957 |  |  | $14,339$ | 11,985 | 1,169 |
| $\begin{aligned} & 6 / 3 / 2009 \end{aligned}$ | TRUE | $\underset{\substack{\text { TRUE } \\ \text { TRUE }}}{ }$ |  | $\begin{aligned} & \begin{array}{l} 3.35 \\ 3.67 \end{array} \end{aligned}$ | $\begin{aligned} & 8.27 \\ & 8.88 \end{aligned}$ | $\begin{aligned} & 6.80 \\ & 6.90 \end{aligned}$ | $\begin{aligned} & 49 \% \\ & 53 \% \end{aligned}$ | $\begin{aligned} & 41 \% \\ & 41 \% \end{aligned}$ | $\begin{aligned} & 82 \% \\ & 78 \% \end{aligned}$ |  | $\begin{aligned} & 1.22 \\ & 1.29 \end{aligned}$ | $\begin{aligned} & 7.1 \\ & 7 \end{aligned}$ | $\begin{aligned} & 6.7 \\ & 6.7 \end{aligned}$ | 322.00 |  |  |  | 18,530 |  |  |  | $\begin{aligned} & 14,357 \\ & 1,748 \end{aligned}$ | $\begin{aligned} & \text { 12,001 } \\ & 12,001 \end{aligned}$ | $\begin{aligned} & 1,169 \\ & 1,169 \end{aligned}$ | 18,530 |  |  | $\begin{aligned} & 14,339 \\ & 1,730 \end{aligned}$ | $\begin{aligned} & 11,985 \\ & 11,985 \end{aligned}$ | 1,169 1,169 |
| 6/5/2009 | TRUE | TRUE |  | 3.60 3.60 | 8.70 8.70 | ${ }_{6}^{6.82}$ | 53\% | 41\% | 78\% |  | 1.28 | 7.0 | 6.7 |  |  |  | 20.40 |  |  | 1,160 |  | 14,997 | 12,550 | 1,167 |  |  | 1,160 | 14,978 | $\begin{aligned} & 11,985 \\ & 12,532 \end{aligned}$ | 1,167 |
| 6/6/2009 | true | TRUE |  | 3.60 | 8.80 | 6.41 | 56\% | 41\% | 73\% |  | 1.37 | 6.9 | 6.6 |  |  |  |  |  |  |  |  | 14,997 | 12,550 | 1,199 |  |  |  | 14,978 | 12,532 | 1,199 |
| 6/7/2009 | TRUE | TRUE |  | 2.87 | 8.85 | 6.21 | 46\% | 32\% | 70\% |  | 1.43 | 6.9 | 6.6 |  |  |  |  |  |  |  |  | 14,957 | 12,161 | 1,199 |  |  |  | 14,936 | 12,140 | 1,199 |
| 6/8/2009 | true | TRUE |  | 3.07 | 8.71 | 6.52 | 47\% | 35\% | 75\% |  | 1.34 | 6.9 | 6.6 | 248.00 |  |  |  | 13,481 |  |  |  | 14,769 | 12,161 | 1,199 | 13,481 |  |  | 14,748 | 12,140 | 1,199 |
| 6/9/2009 | true | TRUE |  | 3.39 | 8.29 | 6.55 | 52\% | 41\% | 79\% |  | 1.27 | 6.8 | 6.6 | 227.00 |  |  |  | 12,397 |  |  |  | 14,611 | 12,161 | 1,199 | 12,397 |  |  | 14,592 | 12,140 | 1,199 |
| 6/10/2009 | true | TRUE |  | 3.36 | 8.38 | 6.62 | 51\% | 40\% | 79\% |  | 1.27 | 6.8 | 6.6 |  |  |  |  |  |  |  |  | 14,611 | 12,161 | 1,199 |  |  |  | 14,592 | 12,140 | 1,199 |
| 6/11/2009 | TRUE | TRUE |  | 3.40 | 8.29 | 6.55 | 52\% | 41\% | 79\% |  | 1.26 | 6.8 | 6.6 | 250.00 | 195.00 | 0.78 |  | 13,665 | 10,659 |  |  | 14,551 | 11,911 | 1,199 | 13,665 | 10,659 |  | 14,534 | 11,893 | 1,199 |
| 6/12/2009 | TRUE | TRUE |  | 3.29 | 8.50 | 6.35 | 52\% | 39\% | 75\% |  | 1.34 | 6.8 | 6.5 | 274.00 |  |  | 19.98 | 14,506 |  | 1,058 |  | 14,432 | 11,891 | 1,171 | 14,506 |  | 1,058 | 14,414 | 11,869 | 1,171 |
| 6/13/2009 | TRUE | TRUE |  | 2.87 | 8.43 | 6.11 | 47\% | 34\% | 73\% |  | 1.38 | 6.7 | 6.4 |  |  |  |  |  |  |  |  | 14,432 | 11,891 | 1,171 |  |  |  | 14,414 | 11,869 | 1,171 |
| 6/14/2009 | TRUE | TRUE |  | 2.50 | 8.50 | 6.04 | 41\% | 29\% | 71\% | MinAvg | 1.41 | 6.7 | 6.4 |  |  |  |  |  |  |  |  | 14,131 | 11,571 | 1,171 |  |  |  | 14,112 | 11,543 | 1,171 |
| 6/15/2009 | TRUE | TRUE |  | 2.92 | 8.42 | 6.45 | 45\% | 35\% | 77\% |  | 1.31 | 6.7 | 6.4 | 237.00 |  |  |  | 12,741 |  |  |  | 14,216 | 11,571 | 1,156 | 12,741 |  |  | 14,197 | 11,543 | 1,156 |
| 6/16/2009 | TRUE | true |  | 3.00 | 8.40 | 6.51 | 46\% | 36\% | 78\% |  | 1.29 | 6.7 | 6.4 |  | 204.00 |  |  |  | 11,076 |  |  | 14,216 | 11,472 | 1,156 |  | 10,671 |  | 14,197 | 11,369 | 1,156 |
| 6/17/2009 | TRUE | TRUE |  | 3.00 | 8.40 | 6.51 | 46\% | 36\% | 78\% |  | 1.29 | 6.7 | 6.4 | 260.00 |  |  |  | 14,116 |  |  |  | 14,210 | 11,472 | 1,156 | 14,116 |  |  | 14,192 | 11,369 | 1,156 |
| 6/18/2009 | true | TRUE |  | 3.30 | 8.20 | 6.40 | 52\% | 40\% | 78\% |  | 1.28 | 6.7 | 6.4 | 256.00 | 186.00 | 0.73 | 19.48 | 13,664 | 9,928 | 1,040 |  | 14,247 | 11,214 | 1,133 | 13,664 | 9,928 | 1,040 | 14,230 | 11,129 | 1,133 |
| 6/19/2009 | TRUE | TRUE |  | 3.30 | 8.31 | 6.40 | 52\% | 40\% | 77\% |  | 1.30 | 6.6 | 6.4 | 235.00 |  |  |  | 12,543 |  |  |  | 14,092 | 11,254 | 1,133 | 12,543 |  |  | 14,092 | 11,173 | 1,133 |
| 6/20/2009 | TRUE | TRUE |  | 2.77 | 8.46 | 6.10 | 45\% | 33\% | 72\% |  | 1.39 | 6.6 | 6.4 |  |  |  |  |  |  |  |  | 14,092 | 11,254 | 1,133 |  |  |  | 14,092 | 11,173 | 1,133 |
| 6/21/2009 | TRUE | TRUE |  | 2.46 | 8.20 | 5.95 | 41\% | 30\% | 73\% | MinAvg | 1.38 | 6.6 | 6.4 |  |  |  |  |  |  |  |  | 14,103 | 11,254 | 1,097 |  |  |  | 14,103 | 11,173 | 1,097 |
| 6/22/2009 | TRUE | TRUE |  | 3.06 | 8.43 | 6.43 | 48\% | 36\% | 76\% |  | 1.31 | 6.5 | 6.4 | 231.00 |  |  |  | 12,380 |  |  |  | 13,879 | 10,856 | 1,097 | 12,380 |  |  | 13,879 | 10,755 | 1,097 |
| 6/23/2009 | TRUE | TRUE |  | 3.49 | 8.07 | 6.40 | 55\% | 43\% | 79\% |  | 1.26 | 6.5 | 6.4 | 167.00 | 161.00 | 0.96 |  | 8,917 | 8,596 |  |  | 13,569 | 10,404 | 1,097 | 8,917 | 8,596 |  | 13,569 | 10,323 | 1,097 |
| 6/24/2009 | true | TRUE |  | 3.49 | 8.03 | 6.34 | 55\% | 43\% | 79\% |  | 1.27 | 6.5 | 6.4 |  |  |  |  |  |  |  |  | 13,569 | 10,404 | 1,097 |  |  |  | 13,569 | 10,323 | 1,097 |
| 6/25/2009 | True | True |  | 3.51 | 7.97 | 6.41 | 55\% | 44\% | 80\% |  | 1.24 | 6.5 | 6.4 |  |  |  | 21.37 |  |  | 1,143 |  | 13,569 | 10,404 | 1,106 |  |  | 1,143 | 13,569 | 10,323 | 1,106 |
| 6/26/2009 | TRUE | TRUE |  | 3.20 | 8.30 | 6.29 | 51\% | 39\% | 76\% |  | 1.32 | 6.5 | 6.3 | 310.00 |  |  |  | 16,262 |  |  |  | 13,847 | 10,065 | 1,106 | 16,262 |  |  | 13,847 | 9,964 | 1,106 |
| 6/27/2009 | true | TRUE |  | 2.70 | 8.10 | 5.94 | 45\% | 33\% | 73\% |  | 1.36 | 6.5 | 6.3 |  |  |  |  |  |  |  |  | 13,847 | 10,065 | 1,106 |  |  |  | 13,847 | 9,964 | 1,106 |
| 6/28/2009 | true | TRUE |  | 2.54 | 8.06 | 5.90 | 43\% | 32\% | 73\% |  | 1.37 | 6.4 | 6.2 |  |  |  |  |  |  |  |  | 13,977 | 10,065 | 1,100 |  |  |  | 13,977 | 9,964 | 1,100 |
| 6/29/2009 | TRUE | TRUE |  | 3.20 | 8.46 | 6.44 | 50\% | 38\% | 76\% |  | 1.31 | 6.4 | 6.3 | 242.00 |  |  | 22.99 | 12,998 |  | 1,235 |  | 13,684 | 10,065 | 1,127 | 12,998 |  | 1,235 | 13,684 | 9,964 | 1,127 |
| 6/30/2009 | TRUE | TRUE |  | 3.37 | 8.12 | 6.45 | 52\% | 42\% | 79\% |  | 1.26 | 6.4 | 6.3 | 250.00 | 145.00 | 0.58 |  | 13,457 | 7,805 |  |  | 13,670 | 9,613 | 1,127 | 13,457 | 7,805 |  | 13,670 | 9,532 | 1,127 |
| 7/1/2009 | TRUE | TRUE |  | 3.38 | 8.20 | 6.43 | 53\% | 41\% | 78\% |  | 1.27 | 6.4 | 6.3 |  |  |  |  |  |  |  |  | 13,670 | 9,613 | 1,127 |  |  |  | 13,670 | 9,532 | 1,127 |
| 7/2/2009 | TRUE | TRUE |  | 3.35 | 8.05 | 6.33 | 53\% | 42\% | 79\% |  | 1.27 | 6.4 | 6.3 | 274.00 | 197.00 | 0.72 |  | 14,474 | 10,407 |  |  | 13,631 | 9,745 | 1,127 | 14,474 | 10,407 |  | 13,631 | 9,678 | 1,127 |


| Date | $\begin{aligned} & \text { Butte } \\ & \text { Break? } \end{aligned}$ | $\begin{gathered} \text { csu } \\ \text { Break? } \end{gathered}$ | Precip? | $\begin{gathered} \text { Min } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | $\begin{gathered} \text { Max } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | $\begin{gathered} \text { Avg } \\ \text { Influent } \\ \text { I Flow, mgd } \end{gathered}$ | Min \% of Avg | $\underset{\text { Max }}{\operatorname{Min}_{\text {\% of }}}$ | Avg \% of Max | $\begin{aligned} & \text { Flow } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | $\begin{aligned} & \text { Diurnal } \\ & \text { Peak } \\ & \text { Factor } \\ & \text { (DPF) } \end{aligned}$ | $\begin{gathered} \text { 30-d Avg } \\ \text { of Avg } \\ \text { Flow, } \mathrm{mgd} \end{gathered}$ | 7-d Avg of Avg Flow, mgd | Influent TSS Conc., mg/L | $\begin{aligned} & \text { Influent } \\ & \text { BoD } \\ & \text { Conc, } \\ & \text { mg/L } \end{aligned}$ | BOD/TSS Ratio | Influent NH3-N Conc., mg/L | Avg linf TSS Load, ppd | Avg lnf BOD Load ppd | Avg linf NH3 load, ppd | $\begin{aligned} & \text { Load } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | 30-d Avg of TSS Load, ppd | $\begin{aligned} & 30-\mathrm{d} \text { Avg } \\ & \text { of BoD } \\ & \text { Lood, ppd } \end{aligned}$ | 30-d Avg of NH3-N Load, ppd | non-SN TSS Load, ppd | non-SN BOD Load, ppd | non-SN NH3 Load, ppd | 30-d Avg of non-SN TSS Load, ppd | 30-d Avg of non-SN BOD Load, ppd | 30-d Avg of non-SN NH3-N Load, ppo |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 7/3/2009 | TRUE | TRUE |  | 2.91 | 8.06 | 5.93 | 49\% | 36\% | 74\% |  | 1.36 | 6.4 | 6.2 |  |  |  |  |  |  |  |  | 13,609 | 9,745 | 1,127 |  |  |  | 13,609 | 9,678 | 1,127 |
| 7/4/2009 | TRUE | TRUE |  | 2.67 | 7.66 | 5.43 | 49\% | 35\% | 71\% |  | 1.41 | 6.3 | 6.1 |  |  |  |  |  |  |  |  | 13,609 | 9,745 | 1,127 |  |  |  | 13,609 | 9,678 | 1,127 |
| 7/5/2009 | TRUE | TRUE |  | 2.37 | 7.73 | 5.78 | 41\% | 31\% | 75\% | MinAvg | 1.34 | 6.3 | 6.1 |  |  |  |  |  |  |  |  | 13,257 | 9,745 | 1,127 |  |  |  | 13,257 | 9,678 | 1,127 |
| 7/6/2009 | true | TRUE |  | 3.01 | 8.26 | 6.37 | 47\% | 36\% | 77\% |  | 1.30 | 6.3 | 6.2 | 239.00 |  |  |  | 12,693 |  |  |  | 13,220 | 9,745 | 1,119 | 12,693 |  |  | 13,220 | 9,678 | 1,119 |
| 7/7/2009 | TRUE | TRUE |  | 3.41 | 8.11 | 6.33 | 54\% | 42\% | 78\% |  | 1.28 | 6.3 | 6.2 | 213.00 | 167.00 | 0.78 |  | 11,252 | 8,822 |  |  | 13,097 | 9,613 | 1,119 | 11,252 | 8,822 |  | 13,097 | 9,555 | 1,119 |
| 7/8/2009 | TRUE | TRUE |  | 3.32 | 8.00 | 6.30 | 53\% | 42\% | 79\% |  | 1.27 | 6.3 | 6.2 |  |  |  |  |  |  |  |  | 13,097 | 9,613 | 1,119 |  |  |  | 13,097 | 9,555 | 1,119 |
| 7/9/2009 | TRUE | TRUE |  | 3.51 | 7.97 | 6.22 | 56\% | 44\% | 78\% |  | 1.28 | 6.3 | 6.1 |  |  |  | 20.70 |  |  | 1,074 |  | 13,071 | 9,613 | 1,110 |  |  | 1,074 | 13,071 | 9,555 | 1,110 |
| 7/10/2009 | TRUE | TRUE |  | 3.34 | 8.30 | 6.29 | 53\% | 40\% | 76\% |  | 1.32 | 6.3 | 6.1 | 333.00 | 224.00 | 0.67 |  | 17,463 | 11,747 |  |  | 13,409 | 9,880 | 1,110 | 17,463 | 11,747 |  | 13,409 | 9,829 | 1,110 |
| 7/11/2009 | TRUE | TRUE |  | 2.68 | 8.12 | 5.94 | 45\% | 33\% | 73\% |  | 1.37 | 6.3 | 6.1 |  |  |  |  |  |  |  |  | 13,409 | 9,880 | 1,110 |  |  |  | 13,409 | 9,829 | 1,110 |
| 7/12/2009 | TRUE | TRUE |  | 2.51 | 8.01 | 5.91 | 42\% | 31\% | 74\% |  | 1.36 | 6.2 | 6.2 |  |  |  |  |  |  |  |  | 13,390 | 9,769 | 1,110 |  |  |  | 13,390 | 9,711 | 1,110 |
| 7/13/2009 | TRUE | TRUE |  | 2.83 | 8.28 | 6.27 | 45\% | 34\% | 76\% |  | 1.32 | 6.2 | 6.2 | 215.00 |  |  |  | 11,236 |  |  |  | 13,157 | 9,769 | 1,123 | 11,236 |  |  | 13,157 | 9,711 | 1,123 |
| 7/14/2009 | TRUE | TRUE |  | 3.21 | 7.94 | 6.43 | 50\% | 40\% | 81\% |  | 1.23 | 6.3 | 6.2 | 200.00 | 174.00 | 0.87 |  | 10,732 | 9,337 |  |  | 12,995 | 9,715 | 1,123 | 10,732 | 9,337 |  | 12,995 | 9,664 | 1,123 |
| 7/15/2009 | TRUE | TRUE |  | 3.18 | 8.09 | 6.41 | 50\% | 39\% | 79\% |  | 1.26 | 6.3 | 6.2 |  |  |  |  |  |  |  |  | 12,995 | 9,715 | 1,123 |  |  |  | 12,995 | 9,664 | 1,123 |
| 7/16/2009 | TRUE | TRUE |  | 3.18 | 7.94 | 6.50 | 49\% | 40\% | 82\% |  | 1.22 | 6.3 | 6.2 | 262.00 |  |  | 20.77 | 14,194 |  | 1,125 |  | 13,092 | 9,715 | 1,123 | 14,194 |  | 1,125 | 13,092 | 9,664 | 1,123 |
| 7/17/2009 | true | TRUE |  | 3.20 | 8.10 | 6.21 | 52\% | 40\% | 77\% |  | 1.30 | 6.3 | 6.2 | 231.00 | 176.00 | 0.76 |  | 11,964 | 9,115 |  |  | 13,022 | 9,470 | 1,123 | 11,964 | 9,115 |  | 13,022 | 9,470 | 1,123 |
| 7/18/2009 | true | TRUE |  | 2.80 | 8.10 | 5.89 | 48\% | 35\% | 73\% |  | 1.38 | 6.2 | 6.2 |  |  |  |  |  |  |  |  | 12,949 | 9,470 | 1,123 |  |  |  | 12,949 | 9,470 | 1,123 |
| 7/19/2009 | TRUE | TRUE |  | 2.49 | 7.95 | 5.82 | 43\% | 31\% | 73\% |  | 1.37 | 6.2 | 6.2 |  |  |  |  |  |  |  |  | 12,897 | 9,404 | 1,144 |  |  |  | 12,897 | 9,404 | 1,144 |
| 7/20/2009 | true | TRUE |  | 2.96 | 8.57 | 6.42 | 46\% | 35\% | 75\% |  | 1.33 | 6.2 | 6.2 | 232.00 |  |  |  | 12,426 |  |  |  | 12,889 | 9,404 | 1,144 | 12,426 |  |  | 12,889 | 9,404 | 1,144 |
| 7/21/2009 | TRUE | TRUE |  | 3.23 | 8.17 | 6.43 | 50\% | 40\% | 79\% |  | 1.27 | 6.2 | 6.3 | 92.00 |  |  |  | 4,934 |  |  |  | 12,359 | 9,404 | 1,144 | 4,934 |  |  | 12,359 | 9,404 | 1,144 |
| 7/22/2009 | true | TRUE |  | 3.19 | 8.25 | 6.40 | 50\% | 39\% | 78\% |  | 1.29 | 6.2 | 6.3 |  |  |  |  |  |  |  |  | 12,359 | 9,404 | 1,144 |  |  |  | 12,359 | 9,404 | 1,144 |
| 7/23/2009 | True | TRUE |  | 2.86 | 8.13 | 6.35 | 45\% | 35\% | 78\% |  | 1.28 | 6.2 | 6.3 |  |  |  |  |  |  |  |  | 12,357 | 9,404 | 1,144 |  |  |  | 12,357 | 9,404 | 1,144 |
| 7/24/2009 | true | TRUE |  | 3.39 | 8.38 | 6.29 | 54\% | 40\% | 75\% |  | 1.33 | 6.2 | 6.2 | 207.00 | 186.00 | 0.90 |  | 10,866 | 9,764 |  |  | 12,496 | 9,571 | 1,144 | 10,866 | 9,764 |  | 12,496 | 9,571 | 1,144 |
| 7/25/2009 | True | TRUE |  | 2.82 | 7.97 | 6.01 | 47\% | 35\% | 75\% |  | 1.33 | 6.2 | 6.2 |  |  |  |  |  |  |  |  | 12,496 | 9,571 | 1,144 |  |  |  | 12,496 | 9,571 | 1,144 |
| 7/26/2009 | true | TRUE |  | 2.40 | 8.01 | 5.92 | 41\% | 30\% | 74\% | MinAvg | 1.35 | 6.2 | 6.2 |  |  |  |  |  |  |  |  | 12,496 | 9,571 | 1,145 |  |  |  | 12,496 | 9,571 | 1,145 |
| 7/27/2009 | True | TRUE |  | 2.80 | 8.30 | 6.32 | 44\% | 34\% | 76\% |  | 1.31 | 6.2 | 6.3 | 179.00 |  |  |  | 9,435 |  |  |  | 12,009 | 9,571 | 1,145 | 9,435 |  |  | 12,009 | 9,571 | 1,145 |
| 7/28/2009 | True | TRUE |  | 2.60 | 8.30 | 6.42 | 40\% | 31\% | 77\% | MinAvg | 1.29 | 6.2 | 6.3 | 212.00 | 113.00 | 0.53 |  | 11,351 | 6,050 |  |  | 11,965 | 9,131 | 1,145 | 11,351 | 6,050 |  | 11,965 | 9,131 | 1,145 |
| 7/29/2009 | True | TRUE |  | 3.30 | 8.20 | 6.47 | 51\% | 40\% | 79\% |  | 1.27 | 6.2 | 6.3 | 185.00 |  |  |  | 9,983 |  |  |  | 11,841 | 9,131 | 1,145 | 9,983 |  |  | 11,841 | 9,131 | 1,145 |
| 7/30/2009 | true | TRUE |  | 3.40 | 8.20 | 6.70 | 51\% | 41\% | 82\% |  | 1.22 | 6.2 | 6.4 |  |  |  | 19.18 |  |  | 1,072 |  | 11,764 | 9,131 | 1,090 |  |  | 1,072 | 11,764 | 9,131 | 1,090 |
| 7/31/2009 | True | TRUE |  | 3.27 | 8.17 | 6.19 | 53\% | 40\% | 76\% |  | 1.32 | 6.2 | 6.3 |  | 179.00 |  |  |  | 9,238 |  |  | 11,643 | 9,310 | 1,090 |  | 9,238 |  | 11,643 | 9,310 | 1,090 |
| 8/1/2009 | true | TRUE |  | 2.71 | 8.17 | 5.90 | 46\% | 33\% | 72\% |  | 1.38 | 6.2 | 6.3 |  |  |  |  |  |  |  |  | 11,643 | 9,310 | 1,090 |  |  |  | 11,643 | 9,310 | 1,090 |
| 8/2/2009 | True | TRUE |  | 2.73 | 8.18 | 6.12 | 45\% | 33\% | 75\% |  | 1.34 | 6.2 | 6.3 |  |  |  |  |  |  |  |  | 11,425 | 9,153 | 1,090 |  |  |  | 11,425 | 9,153 | 1,090 |
| 8/3/2009 | true | TRUE |  | 3.18 | 8.43 | 6.51 | 49\% | 38\% | 77\% |  | 1.30 | 6.2 | 6.3 |  |  |  |  |  |  |  |  | 11,425 | 9,153 | 1,090 |  |  |  | 11,425 | 9,153 | 1,090 |
| 8/4/2009 | true | true |  | 3.41 | 8.43 | 6.52 | 52\% | 40\% | 77\% |  | 1.29 | 6.3 | 6.3 | 206.00 | 154.00 | 0.75 |  | 11,208 | 8,379 |  |  | 11,410 | 9,056 | 1,090 | 11,208 | 8,379 |  | 11,410 | 9,056 | 1,090 |
| 8/5/2009 | true | TRUE |  | 3.44 | 8.63 | 6.48 | 53\% | 40\% | 75\% |  | 1.33 | 6.3 | 6.4 |  |  |  |  |  |  |  |  | 11,410 | 9,056 | 1,090 |  |  |  | 11,410 | 9,056 | 1,090 |
| 8/6/2009 | true | TRUE |  | 3.48 | 8.13 | 6.53 | 53\% | 43\% | 80\% |  | 1.25 | 6.3 | 6.4 | 269.00 | 183.00 | 0.68 |  | 14,645 | 9,963 |  |  | 11,549 | 9,157 | 1,090 | 14,645 | 9,963 |  | 11,549 | 9,157 | 1,090 |
| 8/7/2009 | true | TRUE |  | 3.40 | 8.60 | 6.48 | 52\% | 40\% | 75\% |  | 1.33 | 6.3 | 6.3 |  |  |  |  |  |  |  |  | 11,572 | 9,199 | 1,090 |  |  |  | 11,572 | 9,199 | 1,090 |
| 8/8/2009 | true | TRUE |  | 3.00 | 8.40 | 6.23 | 48\% | 36\% | 74\% |  | 1.35 | 6.3 | 6.3 |  |  |  |  |  |  |  |  | 11,572 | 9,199 | 1,090 |  |  |  | 11,572 | 9,199 | 1,090 |
| 8/9/2009 | true | TRUE |  | 2.53 | 8.33 | 6.13 | 41\% | 30\% | 74\% | Minavg | 1.36 | 6.3 | 6.4 |  |  |  |  |  |  |  |  | 11,572 | 9,199 | 1,098 |  |  |  | 11,572 | 9,199 | 1,098 |
| 8/10/2009 | true | TRUE |  | 3.13 | 8.50 | 6.52 | 48\% | 37\% | 77\% |  | 1.30 | 6.3 | 6.5 | 172.00 |  |  |  | 9,359 |  |  |  | 10,949 | 8,835 | 1,098 | 9,359 |  |  | 10,949 | 8,835 | 1,098 |
| 8/11/2009 | true | TRUE |  | 3.53 | 8.53 | 6.74 | 52\% | 41\% | 79\% |  | 1.27 | 6.3 | 6.5 | 209.00 | 127.00 | 0.61 |  | 11,745 | 7,137 |  |  | 11,005 | 8,623 | 1,098 | 11,745 | 7,137 |  | 11,005 | 8,623 | 1,098 |
| 8/12/2009 | true | TRUE |  | 3.42 | 8.68 | 6.58 | 52\% | 39\% | 76\% |  | 1.32 | 6.3 | 6.5 |  |  |  |  |  |  |  |  | 11,005 | 8,623 | 1,098 |  |  |  | 11,005 | 8,623 | 1,098 |
| 8/13/2009 | true | TRUE |  | 3.44 | 8.37 | 6.60 | 52\% | 41\% | 79\% |  | 1.27 | 6.4 | 6.5 | 237.00 | 165.00 | 0.70 | 20.97 | 13,045 | 9,082 | 1,154 |  | 11,135 | 8,674 | 1,117 | 13,045 | 9,082 | 1,154 | 11,135 | 8,674 | 1,117 |
| 8/14/2009 | true | TRUE |  | 3.29 | 8.24 | 6.39 | 52\% | 40\% | 78\% |  | 1.29 | 6.4 | 6.5 | 240.00 |  |  |  | 12,782 |  |  |  | 11,281 | 8,591 | 1,117 | 12,782 |  |  | 11,281 | 8,591 | 1,117 |
| 8/15/2009 | true | TRUE |  | 2.73 | 8.60 | 6.27 | 44\% | 32\% | 73\% |  | 1.37 | 6.4 | 6.5 |  |  |  |  |  |  |  |  | 11,281 | 8,591 | 1,117 |  |  |  | 11,281 | 8,591 | 1,117 |
| 8/16/2009 | True | TRUE |  | 2.53 | 8.73 | 6.37 | 40\% | 29\% | 73\% | MinAvg | 1.37 | 6.3 | 6.5 |  |  |  |  |  |  |  |  | 11,057 | 8,591 | 1,113 |  |  |  | 11,057 | 8,591 | 1,113 |
| 8/17/2009 | true | TRUE |  | 3.18 | 8.67 | 6.78 | 47\% | 37\% | 78\% |  | 1.28 | 6.4 | 6.6 | 172.00 |  |  |  | 9,723 |  |  |  | 10,885 | 8,516 | 1,113 | 9,723 |  |  | 10,885 | 8,516 | 1,113 |
| 8/18/2009 | True | TRUE |  | 3.42 | 8.82 | 6.84 | 50\% | 39\% | 78\% |  | 1.29 | 6.4 | 6.6 | 218.00 | 135.00 | 0.62 |  | 12,429 | 7,697 |  |  | 10,995 | 8,414 | 1,113 | 12,429 | 7,697 |  | 10,995 | 8,414 | 1,113 |
| 8/19/2009 | true | TRUE |  | 3.43 | 9.11 | 6.78 | 51\% | 38\% | 74\% |  | 1.34 | 6.4 | 6.6 |  |  |  |  |  |  |  |  | 10,995 | 8,414 | 1,113 |  |  |  | 10,995 | 8,414 | 1,113 |
| 8/20/2009 | True | TRUE |  | 3.62 | 8.85 | 6.91 | 52\% | 41\% | 78\% |  | 1.28 | 6.5 | 6.7 | 198.00 |  |  | 19.22 | 11,416 |  | 1,108 |  | 10,923 | 8,414 | 1,111 | 11,416 |  | 1,108 | 10,923 | 8,414 | 1,111 |
| 8/21/2009 | true | TRUE |  | 3.03 | 8.69 | 6.94 | 44\% | 35\% | 80\% |  | 1.25 | 6.5 | 6.7 | 203.00 |  |  |  | 11,743 |  |  |  | 11,409 | 8,414 | 1,111 | 11,743 |  |  | 11,409 | 8,414 | 1,111 |
| 8/22/2009 | True | TRUE |  | 3.02 | 9.49 | 6.79 | 44\% | 32\% | 72\% |  | 1.40 | 6.5 | 6.8 |  |  |  |  |  |  |  |  | 11,409 | 8,414 | 1,111 |  |  |  | 11,409 | 8,414 | 1,111 |
| 8/23/2009 | true | TRUE |  | 2.76 | 9.62 | 6.90 | 40\% | 29\% | 72\% | Minavg | 1.39 | 6.5 | 6.8 |  |  |  |  |  |  |  |  | 11,409 | 8,414 | 1,111 |  |  |  | 11,409 | 8,414 | 1,111 |
| 8/24/2009 | TRUE | TRUE |  | 3.20 | 9.30 | 7.11 | 45\% | 34\% | 76\% |  | 1.31 | 6.5 | 6.9 | 216.00 |  |  |  | 12,815 |  |  |  | 11,548 | 8,221 | 1,111 | 12,815 |  |  | 11,548 | 8,221 | 1,111 |
| 8/25/2009 | FALSE | FALSE |  | 3.52 | 9.38 | 7.10 | 50\% | 38\% | 76\% |  | 1.32 | 6.6 | 6.9 | 210.00 | 147.00 | 0.70 |  | 12,438 | 8,707 |  |  | 11,608 | 8,282 | 1,111 | 12,438 | 8,707 |  | 11,608 | 8,282 | 1,111 |
| 8/26/2009 | FALSE | FALSE |  | 3.46 | 9.11 | 7.11 | 49\% | 38\% | 78\% |  | 1.28 | 6.6 | 7.0 |  |  |  |  |  |  |  |  | 11, 1108 | 8,282 | 1,111 |  |  |  | 11,608 | 8,282 | 1,111 |
| 8/27/2009 | FALSE | FALSE |  | 3.55 | 9.22 | 7.12 | 50\% | 39\% | 77\% |  | 1.29 | 6.6 | 7.0 | 212.00 |  |  | 20.32 | 12,589 |  | 1,207 |  | 11,818 | 8,282 | 1,135 | 12,589 |  | 1,207 | 11,818 | 8,282 | 1,135 |
| 8/28/2009 | FALSE | FALSE |  | 3.52 | 9.08 | 7.13 | 49\% | 39\% | 79\% |  | 1.27 | 6.6 | 7.0 | 221.00 |  |  |  | 13,138 |  |  |  | 11,937 | 8,600 | 1,135 | 13,138 |  |  | 11,937 | 8,600 | 1,135 |
| 8/29/2009 | FALSE | FALSE |  | 2.76 | 9.47 | 6.74 | 41\% | 29\% | 71\% | MinAvg | 1.41 | 6.6 | 7.1 |  |  |  |  |  |  |  |  | 12,077 | 8,600 | 1,135 |  |  |  | 12,077 | 8,600 | 1,135 |
| 8/30/2009 | FALSE | FALSE |  | 2.68 | 9.44 | 6.79 | 39\% | 28\% | 72\% | MinAvg | 1.39 | 6.6 | 7.1 |  |  |  |  |  |  |  |  | 12,077 | 8,600 | 1,156 |  |  |  | 12,077 | 8,600 | 1,156 |
| 8/31/2009 | false | FALSE |  | 3.01 | 9.19 | 7.70 | 39\% | 33\% | 84\% | MinAvg | 1.19 | 6.7 | 7.1 | 215.00 |  |  |  | 13,810 |  |  |  | 12,192 | 8,494 | 1,156 | 13,810 |  |  | 12,192 | 8,494 | 1,156 |
| 9/1/2009 | FALSE | FALSE |  | 3.61 | 9.25 | 6.54 | 55\% | 39\% | 71\% |  | 1.41 | 6.7 | 7.0 | 203.00 | 164.00 | 0.81 |  | 11,079 | 8,951 |  |  | 12,123 | 8,559 | 1,156 | 11,079 | 8,951 |  | 12,123 | 8 8,559 | 1,156 |
| 9/2/2009 | ${ }_{\text {FALSE }}$ | ${ }_{\text {FALSE }}$ |  | 3.47 3.24 | 9.23 | 7.13 7.20 | 49\% | $38 \%$ $35 \%$ | 77\% |  | 1.29 1.28 | 6.7 6.8 | 7.0 7.0 | 221.00 |  |  | 32.64 | 13,274 |  | 1.961 |  | 12,123 12,191 | 8,559 8,559 | 1,1556 | 13,274 |  | 1,961 | 12,123 12,191 | 8,559 8,559 | 1,156 1,357 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1,357 |


| Date | $\begin{aligned} & \text { Butte } \\ & \text { Break? } \end{aligned}$ | $\underset{\text { Break? }}{\text { csu }}$ | Precip? | $\min _{\substack{\text { Influent } \\ \text { Flow, mgd }}}$ | $\begin{gathered} \text { Max } \\ \text { Influent } \\ \text { Flow, } \text { mgd } \end{gathered}$ | $\begin{gathered} \text { Avg } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | Min \% of Avg | Min \% of <br> Max | Avg \% of <br> Max | $\begin{aligned} & \begin{array}{l} \text { Flow } \\ \text { Outlier } \\ \text { Type } \end{array} \end{aligned}$ | $\begin{aligned} & \text { Diurnal } \\ & \text { Peak } \\ & \text { Factor } \\ & \text { (DPF) } \end{aligned}$ | 30-d Avg of Avg Flow, mgd | 7-d Avg of Avg Flow, mgd | Influent TSS Conc., mg/L | Influent BOD Conc., mg/L | B0D/TSS | Influent NH3-N Conc., mg/L | Avg linf TSS Load, ppd | $\begin{gathered} \text { Avg } \operatorname{lnf} \\ \text { BOD Load, } \\ \text { ppd } \end{gathered}$ | Avg $\operatorname{lnf}$ NH3 Load, ppd | $\begin{aligned} & \text { Load } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | 30-d Avg of TSS Load, ppd | 30-d Avg of BOD Load, ppd | 30-d Avg of NH3-N Load, ppd | Ton-SN ppd | $\begin{gathered} \text { non-SN } \\ \text { BOD Load, } \\ \text { ppd } \end{gathered}$ | non-SN ppd | 30-d Avg of non-SN TSS Load, ppd | 30-d Avg of non-SN ppd | 30-d Avg <br> of non-SN NH3-N <br> Load, ppd |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 9/4/2009 | FALSE | FALSE |  | 3.41 | 9.01 | 7.10 | 48\% | 38\% | 79\% |  | 1.27 | 6.8 | 7.0 | 203.00 | 178.00 | 0.88 |  | 12,024 | 10,543 |  |  | 12,238 | 8,868 | 1,357 | 12,024 | 10,543 |  | 12,238 | 8,868 | 1,357 |
| 9/5/2009 | FALSE | FALSE |  | 3.08 | 9.77 | 6.86 | 45\% | 32\% | 70\% |  | 1.42 | 6.8 | 7.0 |  |  |  |  |  |  |  |  | 12,238 | 8,868 | 1,357 |  |  |  | 12,238 | 8,868 | 1,357 |
| 9/6/2009 | FALSE | FALSE |  | 2.72 | 9.61 | 6.58 | 41\% | 28\% | 68\% | MinAvg | 1.46 | 6.8 | 7.0 |  |  |  |  |  |  |  |  | 12,088 | 8,686 | 1,357 |  |  |  | 12,088 | 8,686 | 1,357 |
| 9/7/2009 | FALSE | FALSE |  | 2.60 | 9.70 | 6.90 | 38\% | 27\% | 71\% | Minavg | 1.41 | 6.8 | 7.0 |  |  |  |  |  |  |  |  | 12,088 | 8,886 | 1,357 |  |  |  | 12,088 | 8,686 | 1,357 |
| 9/8/2009 | FALSE | FALSE |  | 3.20 | 9.10 | 7.12 | 45\% | 35\% | 78\% |  | 1.28 | 6.9 | 7.0 | 207.00 | 161.00 | 0.78 |  | 12,292 | 9,560 |  |  | 12,100 | 8,811 | 1,357 | 12,292 | 9,560 |  | 12,100 | 8,811 | 1,357 |
| 9/9/2009 | FALSE | FALSE |  | 3.50 | 8.99 | 7.14 | 49\% | 39\% | 79\% |  | 1.26 | 6.9 | 7.1 |  |  |  |  |  |  |  |  | 12,100 | 8,811 | 1,357 |  |  |  | 12,100 | 8,811 | 1,357 |
| 9/10/2009 | FALSE | FALSE |  | 3.50 | 9.10 | 7.10 | 49\% | 38\% | 78\% |  | 1.28 | 6.9 | 7.1 | 228.00 |  |  | 21.52 | 13,501 |  | 1,274 |  | 12,344 | 8,811 | 1,341 | 13,501 |  | 1,274 | 12,344 | 8,811 | 1,341 |
| 9/11/2009 | FALSE | FALSE |  | 3.50 | 9.10 | 7.00 | 50\% | 38\% | 77\% |  | 1.30 | 6.9 | 7.1 | 216.00 |  |  |  | 12,610 |  |  |  | 12,395 | 9,090 | 1,341 | 12,610 |  |  | 12,395 | 9,090 | 1,341 |
| 9/12/2009 | FALSE | FALSE |  | 3.30 | 9.45 | 6.77 | 49\% | 35\% | 72\% |  | 1.40 | 6.9 | 7.0 |  |  |  |  |  |  |  |  | 12,395 | 9,090 | 1,341 |  |  |  | 12,395 | 9,090 | 1,341 |
| 9/13/2009 | FALSE | FALSE |  | 3.20 | 9.90 | 7.05 | 45\% | 32\% | 71\% |  | 1.40 | 6.9 | 7.0 |  |  |  |  |  |  |  |  | 12,354 | 9,092 | 1,387 |  |  |  | 12,354 | 9,092 | 1,387 |
| 9/14/2009 | FALSE | FALSE |  | 3.49 | 9.31 | 7.54 | 46\% | 37\% | 81\% |  | 1.23 | 7.0 | 7.1 |  |  |  |  |  |  |  |  | 12,325 | 9,092 | 1,387 |  |  |  | 12,325 | 9,092 | 1,387 |
| 9/15/2009 | FALSE | FALSE |  | 3.72 | 9.34 | 7.40 | 50\% | 40\% | 79\% |  | 1.26 | 7.0 | 7.1 | 237.00 | 201.00 | 0.85 | 19.28 | 14,619 | 12,398 | 1,189 |  | 12,469 | 9,643 | 1,348 | 14,619 | 12,398 | 1,189 | 12,469 | 9,643 | 1,348 |
| 9/16/2009 | FALSE | FALSE |  | 3.90 | 9.50 | 7.30 | 53\% | 41\% | 77\% |  | 1.30 | 7.0 | 7.2 |  |  |  |  |  |  |  |  | 12,469 | 9,643 | 1,348 |  |  |  | 12,469 | 9,643 | 1,348 |
| 9/17/2009 | FALSE | FALSE |  | 3.00 | 9.00 | 7.30 | 41\% | 33\% | 81\% | Minavg | 1.23 | 7.0 | 7.2 |  |  |  |  |  |  |  |  | 12,652 | 9,643 | 1,348 |  |  |  | 12,652 | 9,643 | 1,348 |
| 9/18/2009 | FALSE | FALSE |  | 3.00 | 9.00 | 7.30 | 41\% | 33\% | 81\% | Minavg | 1.23 | 7.1 | 7.2 | 242.00 |  |  |  | 14,733 |  |  |  | 12,805 | 10,032 | 1,348 | 14,733 |  |  | 12,805 | 10,032 | 1,348 |
| 9/19/2009 | False | FALSE |  | 3.00 | 9.00 | 7.30 | 41\% | 33\% | 81\% | Minavg | 1.23 | 7.1 | 7.2 |  |  |  |  |  |  |  |  | 12,805 | 10,032 | 1,348 |  |  |  | 12,805 | 10,032 | 1,348 |
| 9/20/2009 | FALSE | FALSE |  | 3.00 | 9.00 | 6.78 | 44\% | 33\% | 75\% |  | 1.33 | 7.1 | 7.2 |  |  |  |  |  |  |  |  | 12,905 | 10,032 | 1,408 |  |  |  | 12,905 | 10,032 | 1,408 |
| 9/21/2009 | FALSE | FALSE |  | 3.04 | 9.23 | 7.23 | 42\% | 33\% | 78\% | MinAvg | 1.28 | 7.1 | 7.3 | 215.00 |  |  |  | 12,971 |  |  |  | 12,992 | 10,032 | 1,408 | 12,971 |  |  | 12,992 | 10,032 | 1,408 |
| 9/2//2009 | FALSE | FALSE |  | 3.35 | 9.37 | 7.03 | 48\% | 36\% | 75\% |  | 1.33 | 7.1 | 7.1 | 220.00 | 181.00 | 0.82 |  | 12,891 | 10,606 |  |  | 12,986 | 10,128 | 1,408 | 12,891 | 10,606 |  | 12,986 | 10,128 | 1,408 |
| 9/23/2009 | FALSE | FALSE |  | 3.42 | 9.42 | 7.01 | 49\% | 36\% | 74\% |  | 1.34 | 7.1 | 7.0 |  |  |  |  |  |  |  |  | 12,986 | 10,128 | 1,408 |  |  |  | 12,986 | 10,128 | 1,408 |
| 9/24/2009 | FALSE | FALSE |  | 3.41 | 9.22 | 7.09 | 48\% | 37\% | 77\% |  | 1.30 | 7.1 | 7.0 |  |  |  | 21.73 |  |  | 1,285 |  | 12,998 | 10,128 | 1,383 |  |  | 1,285 | 12,998 | 10,128 | 1,383 |
| 9/25/2009 | FALSE | FALSE |  | 3.46 | 9.35 | 6.83 | 51\% | 37\% | 73\% |  | 1.37 | 7.1 | 6.9 |  | 188.00 |  |  |  | 10,712 |  |  | 13,041 | 10,462 | 1,383 |  | 10,712 |  | 13,041 | 10,462 | 1,383 |
| 9/26/2009 | FALSE | FALSE |  | 2.94 | 9.33 | 6.67 | 44\% | 32\% | 72\% |  | 1.40 | 7.0 | 6.9 |  |  |  |  |  |  |  |  | 13,041 | 10,462 | 1,383 |  |  |  | 13,041 | 10,462 | 1,383 |
| 9/27/2009 | FALSE | FALSE |  | 2.51 | 9.31 | 6.72 | 37\% | 27\% | 72\% | MinAvg | 1.39 | 7.0 | 6.9 |  |  |  |  |  |  |  |  | 13,079 | 10,462 | 1,427 |  |  |  | 13,079 | 10,462 | 1,427 |
| 9/28/2009 | FALSE | FALSE |  | 3.25 | 9.23 | 7.16 | 45\% | 35\% | 78\% |  | 1.29 | 7.0 | 7.0 | 195.00 |  |  |  | 11,641 |  |  |  | 12,954 | 10,462 | 1,427 | 11,641 |  |  | 12,954 | 10,462 | 1,427 |
| 9/29/2009 | FALSE | FALSE |  | 3.31 | 9.19 | 7.15 | 46\% | 36\% | 78\% |  | 1.29 | 7.0 | 7.0 | 165.00 | 126.00 | 0.76 |  | 9,834 | 7,509 |  |  | 12,714 | 10,040 | 1,427 | 9,834 | 7,509 |  | 12,714 | 10,040 | 1,427 |
| 9/30/2009 | FALSE | FALSE |  | 3.32 | 9.16 | 7.26 | 46\% | 36\% | 79\% |  | 1.26 | 7.1 | 7.0 |  |  |  |  |  |  |  |  | 12,714 | 10,040 | 1,427 |  |  |  | 12,714 | 10,040 | 1,427 |
| 101/2009 | FALSE | FALSE |  | 3.21 | 8.83 | 7.09 | 45\% | 36\% | 80\% |  | 1.25 | 7.1 | 7.0 | 288.00 |  |  | 24.32 | 17,025 |  | 1,438 |  | 12,961 | 10,040 | 1,429 | 17,025 |  | 1,438 | 12,961 | 10,040 | 1,429 |
| 10/2/2009 | FALSE | FALSE |  | 3.40 | 8.79 | 7.19 | 47\% | 39\% | 82\% |  | 1.22 | 7.1 | 7.0 | 208.00 | 170.00 | 0.82 |  | 12,466 | 10,188 |  |  | 13,068 | 10,217 | 1,429 | 12,466 | 10,188 |  | 13,068 | 10,217 | 1,429 |
| 101/32009 | FALSE | FALSE |  | 3.09 | 9.41 | 6.57 | 47\% | 33\% | 70\% |  | 1.43 | 7.1 | 7.0 |  |  |  |  |  |  |  |  | 13,068 | 10,217 | 1,429 |  |  |  | 13,068 | 10,217 | 1,429 |
| 10/4/2009 | FALSE | FALSE |  | 1.44 | 7.78 | 6.82 | 21\% | 19\% | 88\% | 'gMinMaxA' | 1.14 | 7.1 | 7.1 |  |  |  |  |  |  |  |  | 13,051 | 10,217 | 1,296 |  |  |  | 13,051 | 10,217 | 1,296 |
| 10/5/2009 | FALSE | FALSE |  | 2.82 | 9.37 | 6.98 | 40\% | 30\% | 75\% | Minavg | 1.34 | 7.1 | 7.1 | 217.00 |  |  |  | 12,636 |  |  |  | 13,102 | 10,162 | 1,296 | 12,636 |  |  | 13,102 | 10,162 | 1,296 |
| 10/6/2009 | FALSE | FALSE |  | 3.09 | 9.03 | 7.17 | 43\% | 34\% | 79\% |  | 1.26 | 7.1 | 7.1 | 212.00 | 131.00 | 0.62 |  | 12,681 | 7,836 |  |  | 13,069 | 9,830 | 1,296 | 12,681 | 7,836 |  | 13,069 | 9,830 | 1,296 |
| 10/7/2009 | FALSE | FALSE |  | 3.14 | 9.04 | 7.12 | 44\% | 35\% | 79\% |  | 1.27 | 7.1 | 7.1 |  |  |  | 19.71 |  |  | 1,170 |  | 13,069 | 9,830 | 1,271 |  |  | 1,170 | 13,069 | 9,830 | 1,271 |
| 1018/2009 | FALSE | FALSE |  | 3.29 | 9.37 | 7.19 | 46\% | 35\% | 77\% |  | 1.30 | 7.1 | 7.1 | 215.00 |  |  |  | 12,896 |  |  |  | 13,057 | 9,830 | 1,271 | 12,896 |  |  | 13,057 | 9,830 | 1,271 |
| 10/9/2009 | FALSE | FALSE |  | 3.25 | 9.19 | 7.02 | 46\% | 35\% | 76\% |  | 1.31 | 7.1 | 7.0 | 199.00 |  |  |  | 11,647 |  |  |  | 13,011 | 9,875 | 1,271 | 11,647 |  |  | 13,011 | 9,875 | 1,271 |
| 10/10/2009 | FALSE | FALSE |  | 3.26 | 9.76 | 6.80 | 48\% | 33\% | 70\% |  | 1.43 | 7.1 | 7.0 |  |  |  |  |  |  |  |  | 13,011 | 9,875 | 1,271 |  |  |  | 13,011 | 9,875 | 1,271 |
| 10/11/2009 | FALSE | FALSE |  | 2.68 | 9.30 | 6.84 | 39\% | 29\% | 74\% | MinAvg | 1.36 | 7.1 | 7.1 |  |  |  |  |  |  |  |  | 12,973 | 9,875 | 1,270 |  |  |  | 12,973 | 9,875 | 1,270 <br> 1,270 |
| 10/12/2009 | FALSE | FALSE |  | 2.96 | 9.57 | 7.38 | 40\% | 31\% | 77\% | MinAvg | 1.30 | 7.1 | 7.1 | 343.00 |  |  |  | 21,123 |  |  | TSS | 13,003 | 9,875 | 1,270 | ${ }^{21,123}$ |  |  | 13,003 | 9,875 | 1,270 |
| 10/13/2009 | FALSE | FALSE |  | 3.39 4.23 | 9.96 9.80 | $\begin{aligned} & 8.26 \\ & 8.33 \end{aligned}$ | 41\% $51 \%$ | $34 \%$ $43 \%$ | 83\% | MinAvg | 1.21 1.18 1.18 | 7.1 7.1 | 7.1 7.3 | 228.00 | 175.00 | 0.77 |  | 15,714 | 12,061 |  |  | 13,212 13,212 | 10,187 | 1,270 1,270 | 15,714 | 12,061 |  | 13,212 13,212 1 | 10,187 | 1,270 |
| 10/15/2009 | FALSE | FALSE |  | 4.05 4.05 | ${ }_{9}^{9.60}$ | 8.35 7.56 | 54\% | 42\% | 79\% |  | 1.128 1.27 | 7.1 | 7.4 7.4 | 213.00 |  |  | 18.64 | 13,423 |  | 1,175 |  | 13,227 | 10,187 | 1,251 1,270 | 13,423 |  | 1,175 | 13,13227 | 10,187 | 1,2751 1,251 |
| 10/16/2009 | FALSE | FALSE |  | 3.72 | 8.92 | 7.37 | 50\% | 42\% | 83\% |  | 1.21 | 7.1 | 7.4 | 183.00 | 183.00 | 1.00 |  | 11,251 | 11,251 |  |  | 12,986 | 10,023 | 1,267 | 11,251 | 11,251 |  | 12,986 | 10,023 | 1,267 |
| 10/17/2009 | FALSE | FALSE |  | 3.50 | 9.37 | 7.08 | 49\% | 37\% | 76\% |  | 1.32 | 7.1 | 7.4 |  |  |  |  |  |  |  |  | 12,986 | 10,023 | 1,267 |  |  |  | 12,986 | 10,023 | 1,267 |
| 10/18/2009 | FALSE | FALSE |  | 3.30 | 10.02 | 7.43 | 44\% | 33\% | 74\% |  | 1.35 | 7.1 | 7.6 |  |  |  |  |  |  |  |  | 12,986 | 10,023 | 1,267 |  |  |  | 12,986 | 10,023 | 1,267 |
| 10/19/2009 | False | FALSE |  | 3.29 | 9.58 | 6.80 | 48\% | 34\% | 71\% |  | 1.41 | 7.1 | 7.4 | 190.00 |  |  |  | 10,775 |  |  |  | 12,704 | 10,023 | 1,267 | 10,775 |  |  | 12,704 | 10,023 | 1,267 |
| 10/20/2009 | FALSE | FALSE |  | 3.52 | 9.40 | 6.22 | 57\% | 37\% | 66\% |  | 1.51 | 7.1 | 7.3 | 221.00 | 188.00 | 0.85 |  | 11,464 | 9,752 |  |  | 12,621 | 9,990 | 1,267 | 11,464 | 9,752 |  | 12,621 | 9,990 | 1,267 |
| 10/21/2009 | FALSE | FALSE |  | 3.31 | 9.57 | 7.01 | 47\% | 35\% | 73\% |  | 1.37 | 7.1 | 7.2 |  |  |  | 19.49 |  |  | 1,139 |  | 12,621 | 9,990 | 1,241 |  |  | 1,139 | 12,621 | 9,990 | 1,241 |
| 10/22/2009 | FALSE | FALSE |  | 3.37 | 9.54 | 7.04 | 48\% | 35\% | 74\% |  | 1.36 | 7.1 | 7.1 |  |  |  |  |  |  |  |  | 12,596 | 9,990 | 1,241 |  |  |  | 12,596 | 9,990 | 1,241 |
| 10/23/2009 | FALSE | FALSE |  | 3.42 | 9.26 | 6.96 | 49\% | 37\% | 75\% |  | 1.33 | 7.1 | 7.0 | 279.00 | 241.00 | 0.86 |  | 16,200 | 13,993 |  |  | 12,832 | 10,413 | 1,241 | 16,200 | 13,993 |  | 12,832 | 10,413 | 1,241 |
| 10/24/2009 | FALSE | FALSE |  | 3.19 | 9.19 | 6.92 | 46\% | 35\% | 75\% |  | 1.33 | 7.1 | 6.9 |  |  |  |  |  |  |  |  | 12,832 | 10,413 | 1,241 |  |  |  | 12,832 | 10,413 | 1,241 |
| 10/25/2009 | FALSE | FALSE |  | 2.97 | 9.44 | 6.87 | 43\% | 31\% | 73\% |  | 1.37 | 7.1 | 6.9 |  |  |  |  |  |  |  |  | 12,832 | 10,413 | 1,230 |  |  |  | 12,832 | 10,413 | 1,230 |
| 10/26/2009 | FALSE | FALSE |  | 3.21 | 9.45 | 7.23 | 44\% | 34\% | 76\% |  | 1.31 | 7.1 | 6.9 | 260.00 |  |  |  | 15,673 |  |  |  | 13,022 | 10,370 | 1,230 | 15,673 |  |  | 13,022 | 10,370 | 1,230 |
| 10/27/2009 | FALSE | FALSE |  | 3.49 | 9.69 | 7.62 | 46\% | 36\% | 79\% |  | 1.27 | 7.1 | 7.0 | 201.00 |  |  |  | 12,767 |  |  |  | 13,006 | 10,370 | 1,230 | 12,767 |  |  | 13,006 | 10,370 | 1,230 |
| 10/28/2009 | FALSE | FALSE |  | 3.79 | 9.27 | 5.94 | 64\% | 41\% | 64\% |  | 1.56 | 7.1 | 6.9 |  |  |  |  |  |  |  |  | 13,006 | 10,370 | 1,230 |  |  |  | 13,006 | 10,370 | 1,230 |
| 10/29/2009 | FALSE | FALSE |  | 3.56 | 9.42 | 7.07 | 50\% | 38\% | 75\% |  | 1.33 | 7.1 | 7.0 |  |  |  | 19.78 |  |  | 1,166 |  | 13,097 | 10,370 | 1,218 |  |  | 1,166 | 13,097 | 10,370 | 1,218 |
| 10/30/2009 | FALSE | FALSE |  |  |  | 7.05 |  |  |  | 'gMinMaxA' | 0.00 | 7.1 | 6.9 | 300.00 | 218.00 | 0.73 |  | 17,639 | 12,818 |  |  | 13,617 | 11,129 | 1,218 | 17,639 | 12,818 |  | 13,617 | 11,129 | 1,218 |
| 10/31/2009 | FALSE | FALSE |  |  |  | 7.50 |  |  |  | 'gMinMaxA' | 0.00 | 7.1 | 6.9 |  |  |  |  |  |  |  |  | 13,617 | 11,129 | 1,218 |  |  |  | 13,617 | 11,129 | 1,218 |
| 11/1/2009 | FALSE | FALSE |  | 2.81 | 9.46 | 6.80 | 41\% | 30\% | 72\% | MinAvg | 1.39 | 7.1 | 6.9 |  |  |  |  |  |  |  |  | 13,374 | 11,129 | 1,163 |  |  |  | 13,374 | 11,129 | 1,163 |
| 11/2/2009 | FALSE | FALSE |  | 2.85 | 9.14 | 7.12 | 40\% | 31\% | 78\% | MinAvg | 1.28 | 7.1 | 7.0 | 225.00 |  |  |  | 13,368 |  |  |  | 13,438 | 11,285 | 1,163 | 13,368 |  |  | 13,438 | 11,285 | 1,163 |
| 11/3/2009 | FALSE | FALSE |  | 3.20 | 9.06 | 7.07 | 45\% | 35\% | 78\% |  | 1.28 | 7.1 | 6.9 | 228.00 | 177.00 | 0.78 |  | 13,444 | 10,437 |  |  | 13,439 | 11,164 | 1,163 | 13,444 | 10,437 |  | 13,439 | 11,164 | 1,163 |
| 11/4/2009 | FALSE | FALSE |  | 3.12 | 9.23 | 7.18 | 43\% | 34\% | 78\% |  | 1.29 | 7.1 | 6.8 |  |  |  |  |  |  |  |  | 13,439 | 11,164 | 1,163 |  |  |  | 13,439 | 11,164 | 1,163 |
| 11/5/2009 | FALSE | FALSE |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 24.46 |  |  | 1,435 |  | 13,496 | 11,164 | 1,217 |  |  |  | 13,496 |  |  |


| Date | $\begin{aligned} & \text { Butte } \\ & \text { Break? } \end{aligned}$ | $\underset{\text { Break? }}{\text { csu }}$ | Precip? | $\operatorname{Min}_{\substack{\text { Influent } \\ \text { Flow, mgd }}}^{\text {min }}$ | $\begin{gathered} \text { Max } \\ \text { Influent } \\ \text { Flow, } \mathrm{mg} \text { ( } \end{gathered}$ |  | $\underset{\text { Min } \% \text { of }}{\substack{\text { Avg }}}$ | $\begin{gathered} \text { Min \% of } \\ \text { Max } \end{gathered}$ | Avg \% of | $\begin{aligned} & \text { Flow } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | $\begin{aligned} & \text { Diurnal } \\ & \text { Peak } \\ & \text { Factor } \\ & \text { (DPF) } \end{aligned}$ | $\begin{gathered} \text { 30-d Avg } \\ \text { of Avg } \\ \text { Flow, mgd } \end{gathered}$ | 7-d Avg of Avg Flow, mgd | Influent TSS Conc., mg/L | $\begin{gathered} \text { Influent } \\ \text { BoD } \\ \text { Conc., } \\ \mathrm{mg} / \mathrm{L} \end{gathered}$ | $\begin{gathered} \text { BoD/TSS } \\ \text { Ratio } \end{gathered}$ | Influent NH3-N Conc., mg/L | $\begin{aligned} & \text { Avg liff } \\ & \text { TSS Load, } \\ & \text { ppd } \end{aligned}$ | $\begin{gathered} \text { Avg } \operatorname{lnf} \\ \text { BOD Load, } \\ \text { ppd } \end{gathered}$ | $\begin{gathered} \text { Avg Inf } \\ \text { NH3 Load, } \\ \text { ppd } \end{gathered}$ | $\begin{aligned} & \text { Load } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | 30-d Avg of TSS Load, ppd | 30-d Avg of BOD Load, ppd | 30-d Avg of NH3-N Load, ppd | non-SN TSS Load, ppd | $\begin{gathered} \text { non-SN } \\ \text { BOD Load, } \\ \text { ppd } \end{gathered}$ | non-SN NH3 Load, ppd | 30-d Avg TSS Load, ppd | 30-d Avg <br> of non-SN BOD Load, ppd | $\begin{gathered} \text { 30-d AVg } \\ \text { of non-SN } \\ \text { NH3 } \\ \text { Load, ppd } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 11/6/2009 | FALSE | FALSE |  | 3.21 | 8.90 | 6.97 | 46\% | 36\% | 78\% |  | 1.28 | 7.1 | 7.1 | 241.00 | 205.00 | 0.85 |  | 14,009 | 11,917 |  |  | 13,591 | 11,747 | 1,217 | 14,009 | 11,917 |  | 13,591 | 11,747 | 1,217 |
| 11/7/2009 | FALSE | false |  | 2.79 | 9.43 | 6.91 | 40\% | 30\% | 73\% | MinAvg | 1.36 | 7.1 | 7.1 |  |  |  |  |  |  |  |  | 13,591 | 11,747 | 1,229 |  |  |  | 13,591 | 11,747 | 1,229 |
| 11/8/2009 | FALSE | false |  | 2.71 | 9.27 | 6.84 | 40\% | 29\% | 74\% | Minavg | 1.35 | 7.1 | 7.1 |  |  |  |  |  |  |  |  | 13,644 | 11,747 | 1,229 |  |  |  | 13,644 | 11,747 | 1,229 |
| 11/9/2009 | FALSE | false |  | 2.81 | 8.76 | 7.19 | 39\% | 32\% | 82\% | MinAvg | 1.22 | 7.1 | 7.1 | 205.00 |  |  |  | 12,289 |  |  |  | 13,694 | 11,747 | 1,229 | 12,289 |  |  | 13,694 | 11,747 | 1,229 |
| 11/10/2009 | FALSE | FALSE |  | 2.81 | 9.38 | 6.89 | 41\% | 30\% | 73\% | MinAvg | 1.36 | 7.1 | 7.1 | 279.00 | 192.00 | 0.69 | 22.10 | 16,039 | 11,038 | 1,270 |  | 13,861 | 11,658 | 1,237 | 16,039 | 11,038 | 1,270 | 13,861 | 11,658 | 1,237 |
| 11/11/2009 | FALSE | false |  | 3.33 | 9.65 | 7.28 | 46\% | 35\% | 75\% |  | 1.33 | 7.1 | 7.1 |  |  |  |  |  |  |  |  | 13,861 | 11,658 | 1,237 |  |  |  | 13,861 | 11,658 | 1,237 |
| 11/12/2009 | FALSE | FALSE |  | 3.37 | 10.39 | 6.35 | 53\% | 32\% | 61\% |  | 1.64 | 7.1 | 6.9 |  |  |  |  |  |  |  |  | 13,861 | 11,658 | 1,237 |  |  |  | 13,861 | 11,658 | 1,237 |
| 11/13/2009 | FALSE | false |  | 3.38 | 8.84 | 6.64 | 51\% | 38\% | 75\% |  | 1.33 | 7.0 | 6.8 |  |  |  |  |  |  |  |  | 13,719 | 11,601 | 1,237 |  |  |  | 13,719 | 11,601 | 1,237 |
| 11/14/2009 | FALSE | false |  | 2.78 | 9.58 | 6.83 | 41\% | 29\% | 71\% | Minavg | 1.40 | 7.0 | 6.8 |  |  |  |  |  |  |  |  | 13,719 | 11,601 | 1,237 |  |  |  | 13,719 | 11,601 | 1,237 |
| 11/15/2009 | FALSE | false |  | 2.64 | 9.30 | 6.85 | 39\% | 28\% | 74\% | MinAvg | 1.36 | 7.0 | 6.8 |  |  |  |  |  |  |  |  | 13,743 | 11,601 | 1,253 |  |  |  | 13,743 | 11,601 | 1,253 |
| 11/16/2009 | FALSE | FALSE |  | 2.96 | 8.93 | 7.10 | 42\% | 33\% | 79\% | MinAvg | 1.26 | 6.9 | 6.8 | 277.00 | 229.00 | 0.83 |  | 16,398 | 13,556 |  |  | 14,172 | 11,930 | 1,253 | 16,398 | 13,556 |  | 14,172 | 11,930 | 1,253 |
| 11/17/2009 | FALSE | false |  | 3.04 | 9.25 | 7.25 | 42\% | 33\% | 78\% | MinAvg | 1.28 | 6.9 | 6.8 |  |  |  |  |  |  |  |  | 14,172 | 11,930 | 1,253 |  |  |  | 14,172 | 11,930 | 1,253 |
| 11/18/2009 | FALSE | FALSE |  | 3.32 | 9.18 | 7.43 | 45\% | 36\% | 81\% |  | 1.24 | 6.9 | 6.9 |  |  |  |  |  |  |  |  | 14,172 | 11,930 | 1,253 |  |  |  | 14,172 | 11,930 | 1,253 |
| 11/19/2009 | FALSE | false |  | 3.19 | 8.90 | 7.20 | 44\% | 36\% | 81\% |  | 1.24 | 6.9 | 6.9 | 294.00 |  |  | 21.13 | 17,659 |  | 1,269 |  | 14,746 | 11,930 | 1,256 | 17,659 |  | 1,269 | 14,746 | 11,930 | 1,256 |
| 11/20/2009 | FALSE | true |  | 3.33 | 9.43 | 7.25 | 46\% | 35\% | 77\% |  | 1.30 | 7.0 | 7.1 | 220.00 |  |  |  | 13,304 |  |  |  | 14,899 | 12,293 | 1,256 | 13,304 |  |  | 14,899 | 12,293 | 1,256 |
| 11/21/2009 | FALSE | true |  | 3.38 | 9.48 | 6.94 | 49\% | 36\% | 73\% |  | 1.37 | 7.0 | 7.2 |  |  |  |  |  |  |  |  | 14,899 | 12,293 | 1,285 |  |  |  | 14,899 | 12,293 | 1,285 |
| 11/22/2009 | FALSE | true |  | 3.19 | 8.94 | 6.74 | 47\% | 36\% | 75\% |  | 1.33 | 7.0 | 7.1 |  |  |  |  |  |  |  |  | 14,899 | 12,293 | 1,285 |  |  |  | 14,899 | 12,293 | 1,285 |
| 11/23/2009 | FALSE | true |  | 2.94 | 8.61 | 6.88 | 43\% | 34\% | 80\% |  | 1.25 | 7.0 | 7.1 | 216.00 |  |  |  | 12,394 |  |  |  | 14,582 | 11,953 | 1,285 | 12,394 |  |  | 14,582 | 11,953 | 1,285 |
| 11/24/2009 | FALSE | true |  | 3.14 | 8.26 | 6.56 | 48\% | 38\% | 79\% |  | 1.26 | 7.0 | 7.0 | 235.00 | 203.00 | 0.86 | 19.19 | 12,855 | 11,105 | 1,050 |  | 14,449 | 11,812 | 1,238 | 12,855 | 11,105 | 1,050 | 14,449 | 11,812 | 1,238 |
| 11/25/2009 | true | true |  | 3.19 | 8.61 | 6.64 | 48\% | 37\% | 77\% |  | 1.30 | 6.9 | 7.0 |  |  |  |  |  |  |  |  | 14,449 | 11,812 | 1,238 |  |  |  | 14,449 | 11,812 | 1,238 |
| 11/26/2009 | true | true |  | 2.89 | 8.77 | 5.74 | 50\% | 33\% | 65\% |  | 1.53 | 6.9 | 6.7 |  |  |  |  |  |  |  |  | 14,347 | 11,812 | 1,238 |  |  |  | 14,347 | 11,812 | 1,238 |
| 11/27/2009 | true | true |  | 3.21 | 8.33 | 6.18 | 52\% | 39\% | 74\% |  | 1.35 | 6.8 | 6.6 |  |  |  |  |  |  |  |  | 14,491 | 11,812 | 1,238 |  |  |  | 14,491 | 11,812 | 1,238 |
| 11/28/2009 | true | true |  | 2.83 | 9.03 | 5.91 | 48\% | 31\% | 65\% |  | 1.53 | 6.8 | 6.4 |  |  |  |  |  |  |  |  | 14,491 | 11,812 | 1,238 |  |  |  | 14,491 | 11,812 | 1,238 |
| 11/29/2009 | true | TRUE |  | 2.80 | 9.11 | 7.07 | 40\% | 31\% | 78\% | MinAvg | 1.29 | 6.8 | 6.4 |  |  |  |  |  |  |  |  | 14,491 | 11,812 | 1,256 |  |  |  | 14,491 | 11,812 | 1,256 |
| 11/30/2009 | True | True |  | 2.80 | 9.01 | 7.07 | 40\% | 31\% | 78\% | MinAvg | 1.27 | 6.8 | 6.3 |  |  |  |  |  |  |  |  | 14,176 | 11,610 | 1,256 |  |  |  | 14,176 | 11,610 | 1,256 |
| 12/1/2009 | FALSE | false |  | 3.16 | 9.06 | 7.04 | 45\% | 35\% | 78\% |  | 1.29 | 6.8 | 6.3 | 228.00 | 205.00 | 0.90 |  | 13,387 | 12,036 |  |  | 14,104 | 11,681 | 1,256 | 13,387 | 12,036 |  | 14,104 | 11,681 | 1,256 |
| 12/2/2009 | FALSE | FALSE |  | 3.10 | 9.60 | 7.50 | 41\% | 32\% | 78\% | MinAvg | 1.28 | 6.8 | 6.3 |  |  |  | 21.93 |  |  | 1,372 |  | 14,104 | 11,681 | 1,279 |  |  | 1,372 | 14,104 | 11,681 | 1,279 |
| 12/3/2009 | FALSE | false |  | 3.10 | 9.60 | 6.89 | 45\% | 32\% | 72\% |  | 1.39 | 6.8 | 6.4 | 228.00 |  |  |  | 13,100 |  |  |  | 14,080 | 11,681 | 1,279 | 13,100 |  |  | 14,080 | 11,681 | 1,279 |
| 12/4/2009 | false | false |  | 3.11 | 8.92 | 6.85 | 45\% | 35\% | 77\% |  | 1.30 | 6.8 | 6.6 | 242.00 | 219.00 | 0.90 |  | 13,825 | 12,511 |  |  | 14,114 | 12,027 | 1,279 | 13,825 | 12,511 |  | 14,114 | 12,027 | 1,279 |
| 12/5/2009 | FALSE | false |  | 3.17 | 9.67 | 6.79 | 47\% | 33\% | 70\% |  | 1.42 | 6.8 | 6.7 |  |  |  |  |  |  |  |  | 14,114 | 12,027 | 1,279 |  |  |  | 14,114 | 12,027 | 1,279 |
| 12/6/2009 | FALSE | false |  | 3.10 | 10.13 | 6.80 | 46\% | 31\% | 67\% |  | 1.49 | 6.8 | 6.9 |  |  |  |  |  |  |  |  | 14,114 | 12,027 | 1,240 |  |  |  | 14,114 | 12,027 | 1,240 |
| 12/7/2009 | FALSE | false |  | 2.98 | 8.92 | 7.19 | 41\% | 33\% | 81\% | MinAvg | 1.24 | 6.7 | 6.9 | 220.00 |  |  |  | 13,196 |  |  |  | 14,040 | 12,049 | 1,240 | 13,196 |  |  | 14,040 | 12,049 | 1,240 |
| 12/8/2009 | FALSE | FALSE |  | 3.18 | 8.51 | 6.99 | 46\% | 37\% | 82\% |  | 1.22 | 6.8 | 6.9 | 205.00 | 195.00 | 0.95 |  | 11,944 | 11,361 |  |  | 13,866 | 11,935 | 1,240 | 11,944 | 11,361 |  | 13,866 | 11,935 | 1,240 |
| 12/9/2009 | FALSE | false |  | 3.33 | 8.72 | 7.15 | 47\% | 38\% | 82\% |  | 1.22 | 6.8 | 6.9 |  |  |  |  |  |  |  |  | 13,866 | 11,935 | 1,240 |  |  |  | 13,866 | 11,935 | 1,240 |
| 12/10/2009 | false | false |  | 3.37 | 8.62 | 7.10 | 47\% | 39\% | 82\% |  | 1.21 | 6.8 | 6.9 | 254.00 |  |  | 22.23 | 15,036 |  | 1,316 |  | 14,095 | 11,935 | 1,255 | 15,036 |  | 1,316 | 14,095 | 11,935 | 1,255 |
| 12/11/2009 | FALSE | FALSE |  | 3.40 | 8.70 | 7.74 | 44\% | 39\% | 89\% | AvgMax | 1.12 | 6.8 | 6.9 | 241.00 |  |  |  | 15,553 |  |  |  | 14,054 | 12,114 | 1,252 | 15,553 |  |  | 14,054 | 12,114 | 1,252 |
| 12/12/2009 | FALSE | false |  |  |  | 6.49 |  |  |  | 'gMinMaxA' | 0.00 | 6.8 | 7.0 |  |  |  |  |  |  |  |  | 14,054 | 12,114 | 1,252 |  |  |  | 14,054 | 12,114 | 1,252 |
| 12/13/2009 | FALSE | FALSE |  |  |  | 7.57 |  |  |  | 'gMinMaxA' | 0.00 | 6.8 | 7.0 |  |  |  |  |  |  |  |  | 14,054 | 12,114 | 1,252 |  |  |  | 14,054 | 12,114 | 1,252 |
| 12/14/2009 | false | FALSE |  | 4.26 | 9.88 | 8.32 | 51\% | 43\% | 84\% |  | 1.19 | 6.9 | 7.4 | 160.00 |  |  |  | 11,102 |  |  |  | 13,827 | 12,114 | 1,252 | 11,102 |  |  | 13,827 | 12,114 | 1,252 |
| 12/15/2009 | FALSE | false |  | 4.28 | 9.53 | 7.70 | 56\% | 45\% | 81\% |  | 1.24 | 6.9 | 7.5 | 261.00 | 181.00 | 0.69 |  | 16,763 | 11,625 |  |  | 14,037 | 12,032 | 1,252 | 16,763 | 11,625 |  | 14,037 | 12,032 | 1,252 |
| 12/16/2009 | FALSE | FALSE |  | 4.51 | 10.11 | 8.35 | 54\% | 45\% | 83\% |  | 1.21 | 7.0 | 7.7 |  |  |  |  |  |  |  |  | 14,037 | 12,032 | 1,252 |  |  |  | 14,037 | 12,032 | 1,252 |
| 12/17/2009 | FALSE | FALSE |  | 4.24 | 9.89 | 8.08 | 53\% | 43\% | 82\% |  | 1.22 | 7.0 | 7.9 | 227.00 |  |  | 17.59 | 15,289 |  | 1,185 |  | 13,958 | 11,728 | 1,238 | 15,289 |  | 1,185 | 13,958 | 11,728 | 1,238 |
| 12/18/2009 | TRUE | TRUE |  | 4.13 | 9.30 | 7.46 | 55\% | 44\% | 80\% |  | 1.25 | 7.0 | 8.0 | 193.00 | 190.00 | 0.98 |  | 12,000 | 11,813 |  |  | 13,827 | 11,742 | 1,238 | 12,000 | 11,813 |  | 13,827 | 11,742 | 1,238 |
| 12/19/2009 | TRUE | TRUE |  | 3.58 | 9.48 | 6.92 | 52\% | 38\% | 73\% |  | 1.37 | 7.0 | 7.8 |  |  |  |  |  |  |  |  | 13,827 | 11,742 | 1,238 |  |  |  | 13,827 | 11,742 | 1,238 |
| 12/20/2009 | true | true |  | 3.41 | 9.06 | 6.74 | 51\% | 38\% | 74\% |  | 1.34 | 7.0 | 7.7 | 260.00 |  |  |  | 14,615 |  |  |  | 13,624 | 11,742 | 1,231 | 14,615 |  |  | 13,624 | 11,742 | 1,231 |
| 12/21/2009 | TRUE | TRUE |  | 3.54 | 9.21 | 7.28 | 49\% | 38\% | 79\% |  | 1.26 | 7.0 | 7.6 |  |  |  |  |  |  |  |  | 13,647 | 11,742 | 1,231 |  |  |  | 13,647 | 11,742 | 1,231 |
| 12/22/2009 | True | true |  | 3.65 | 9.02 | 7.05 | 52\% | 40\% | 78\% |  | 1.28 | 7.0 | 7.4 | 238.00 |  |  | 18.62 | 13,986 |  | 1,094 |  | 13,670 | 11,742 | 1,203 | 13,986 |  | 1,094 | 13,670 | 11,742 | 1,203 |
| 12/23/2009 | TRUE | TRUE |  | 3.47 | 8.65 | 7.13 | 49\% | 40\% | 82\% |  | 1.21 | 7.0 | 7.4 | 244.00 | 193.00 | 0.79 |  | 14,509 | 11,477 |  |  | 13,722 | 11,704 | 1,203 | 14,509 | 11,477 |  | 13,722 | 11,704 | 1,203 |
| 12/24/2009 | TRUE | TRUE |  | 3.30 | 9.96 | 5.87 | 56\% | 33\% | 59\% |  | 1.70 | 7.0 | 7.1 |  |  |  |  |  |  |  |  | 13,811 | 11,704 | 1,203 |  |  |  | 13,811 | 11,704 | 1,203 |
| 12/25/2009 | TRUE | TRUE |  | 2.53 | 8.50 | 5.40 | 47\% | 30\% | 64\% |  | 1.57 | 6.9 | 6.7 |  |  |  |  |  |  |  |  | 13,879 | 11,804 | 1,242 |  |  |  | 13,879 | 11,804 | 1,242 |
| 12/26/2009 | TRUE | TRUE |  | 2.83 | 10.10 | 5.72 | 50\% | 28\% | 57\% | AvgMax | 1.77 | 6.9 | 6.6 |  |  |  |  |  |  |  |  | 13,879 | 11,804 | 1,242 |  |  |  | 13,879 | 11,804 | 1,242 |
| 12/27/2009 | TRUE | TRUE |  | 3.01 | 8.05 | 6.47 | 47\% | 37\% | 80\% |  | 1.24 | 7.0 | 6.6 |  |  |  |  |  |  |  |  | 13,879 | 11,804 | 1,242 |  |  |  | 13,879 | 11,804 | 1,242 |
| 12/28/2009 | TRUE | TRUE |  | 3.12 | 8.11 | 6.59 | 47\% | 38\% | 81\% |  | 1.23 | 7.0 | 6.5 |  |  |  |  |  |  |  |  | 13,879 | 11,804 | 1,242 |  |  |  | 13,879 | 11,804 | 1,242 |
| 12/29/2009 | TRUE | TRUE |  | 3.40 | 7.80 | 6.74 | 50\% | 44\% | 86\% | AvgMax | 1.16 | 7.0 | 6.4 |  | 193.00 |  |  |  | 10,849 |  |  | 13,879 | 11,667 | 1,242 |  | 10,849 |  | 13,879 | 11,667 | 1,242 |
| 12/30/2009 | TRUE | TRUE |  | 3.60 | 8.30 | 6.65 | 54\% | 43\% | 80\% |  | 1.25 | 7.0 | 6.4 | 221.00 |  |  |  | 12,257 |  |  |  | 13,771 | 11,667 | 1,242 | 12,257 |  |  | 13,771 | 11,667 | 1,242 |
| 12/31/2009 | TRUE | TRUE |  | 3.52 | 9.95 | 6.78 | 52\% | 35\% | 68\% |  | 1.47 | 7.0 | 6.3 | 234.00 |  |  | 18.30 | 13,226 |  | 1,034 |  | 13,737 | 11,667 | 1,200 | 13,226 |  | 1,034 | 13,737 | 11,667 | 1,200 |
| 1/1/2010 | TRUE | TRUE | TRUE | 3.59 | 8.27 | 6.30 | 57\% | 43\% | 76\% |  | 1.31 | 7.0 | 6.4 |  |  |  |  |  |  |  |  | 13,760 | 11,606 | 1,200 |  |  |  | 13,760 | 11,606 | 1,200 |
| 1/2/2010 | TRUE | TRUE | FALSE | 3.39 | 8.90 | 6.46 | 52\% | 38\% | 73\% |  | 1.38 | 7.0 | 6.5 |  |  |  |  |  |  |  |  | 13,760 | 11,606 | 1,157 |  |  |  | 13,760 | 11,006 | 1,157 |
| 1/3/2010 | TRUE | TRUE | FALSE | 3.16 | 8.54 | 6.71 | 47\% | 37\% | 79\% |  | 1.27 | 7.0 | 6.6 |  |  |  |  |  |  |  |  | 13,807 | 11,606 | 1,157 |  |  |  | 13,807 | 11,606 | 1,157 |
| 1/4/2010 | TRUE | TRUE | TRUE | 3.10 | 8.24 | 6.68 | 46\% | 38\% | 81\% |  | 1.23 | 6.9 | 6.6 | 234.00 |  |  |  | 13,027 |  |  |  | 13,750 | 11,425 | 1,157 | 13,027 |  |  | 13,750 | 11,425 | 1,157 |
| 1/5/2010 | TRUE | TRUE | TRUE | 3.35 | 8.09 | 6.70 | 50\% | 41\% | 83\% |  | 1.21 | 6.9 | 6.6 | 232.00 | 204.00 | 0.88 |  | 12,964 | 11,399 |  |  | 13,698 | 11,421 | 1,157 | 12,964 | 11,399 |  | 13,698 | 11,421 | 1,157 |
| 1/6/2010 | TRUE | TRUE | FALSE | 3.25 | 8.01 | 6.64 | 49\% | 41\% | 83\% |  | 1.21 | 6.9 | 6.6 |  |  |  |  |  |  |  |  | 13,698 | 11,421 | 1,157 |  |  |  | 13,698 | 11,421 | 1,157 |
| 1/7/2010 | TRUE | TRUE | TRUE | 3.52 | 7.99 | 6.69 | 53\% | 44\% | 84\% |  | 1.19 | 6.9 | 6.6 | 272.00 |  |  | 20.23 | 15,172 |  | 1,128 |  | 13,829 | 11,421 | 1,152 | 15,172 |  | 1,128 | 13,829 | 11,421 | 1,152 |


| Date | $\begin{aligned} & \text { Butte } \\ & \text { Break? } \end{aligned}$ | $\underset{\text { Break? }}{\text { csu }}$ | Precip? | ${ }_{\substack{\text { Min } \\ \text { Influent } \\ \text { Flow, mgd }}}^{\text {mand }}$ | $\begin{gathered} \text { Max } \\ \text { Influent } \\ \text { Flow, } \mathrm{mgd} \end{gathered}$ |  | $\underset{\text { Avg }}{\operatorname{Min} \% \text { of }}$ | $\underset{\text { Max }}{\min _{2} \text { of }}$ | $\begin{aligned} & \text { Avg \% of } \\ & \text { max } \end{aligned}$ | $\begin{aligned} & \text { Fow } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | $\begin{aligned} & \text { Diurnal } \\ & \text { Peak } \\ & \text { Factor } \\ & \text { (DPF) } \end{aligned}$ | $\begin{gathered} \text { 30-d Avg } \\ \text { of Avg } \\ \text { Flow, mgd } \end{gathered}$ | 7-d Avg of Avg Flow, mgd | Influent TSS Conc. mg/L | Influent BOD Conc., mg/l | BOD/TSS | Influent NH3-N Conc., mg/L | Avg liff ppd | $\begin{gathered} \text { Avg Inf } \\ \text { BOD Load, } \\ \text { ppd } \end{gathered}$ | $\begin{gathered} \text { Avg Inf } \\ \text { NH3 Load, } \\ \text { ppd } \end{gathered}$ | $\begin{aligned} & \text { Load } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | 30-d Avg Load, ppd | 30-d Avg of BOD Load, ppd | 30-d Avg of NH3-N Load, ppd | non-SN TSS Load, ppd | non-SN BOD Load, ppd | non-SN NH3 Load, ppd | 30-d Avg TSS Load, ppd | $\begin{aligned} & \text { 30-d AVg } \\ & \text { of non-SN } \\ & \text { BoD Load, } \end{aligned}$ | 30-d Avg of non-SN NH3-N Load, pp |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1/8/2010 | TRUE | TRUE | TRUE | 3.61 | 7.79 | 6.35 | 57\% | 46\% | 81\% |  | 1.23 | 6.9 | 6.6 | 243.00 | 207.00 | 0.85 |  | 12,861 | 10,956 |  |  | 13,891 | 11,353 | 1,152 | 12,861 | 10,956 |  | 13,891 | 11,353 | 1,152 |
| 1/9/2010 | true | TRUE | TRUE | 3.08 | 7.95 | 6.41 | 48\% | 39\% | 81\% |  | 1.24 | 6.9 | 6.6 |  |  |  |  |  |  |  |  | 13,891 | 11,353 | 1,152 |  |  |  | 13,891 | 11,353 | 1,152 |
| 1/10/2010 | true | true | FALSE | 3.10 | 8.70 | 6.57 | 47\% | 36\% | 76\% |  | 1.32 | 6.9 | 6.6 |  |  |  |  |  |  |  |  | 13,809 | 11,353 | 1,110 |  |  |  | 13,809 | 11,353 | 1,110 |
| 1/11/2010 | true | true | TRUE | 4.20 | 8.80 | 7.01 | 60\% | 48\% | 80\% |  | 1.26 | 6.9 | 6.6 | 189.00 |  |  | 20.44 | 11,050 |  | 1,195 |  | 13,487 | 11,353 | 1,127 | 11,050 |  | 1,195 | 13,487 | 11,353 | 1,127 |
| 1/12/2010 | true | true | true | 4.19 | 8.66 | 7.82 | 54\% | 48\% | 90\% | AvgMax | 1.11 | 6.9 | 6.6 | 198.00 | 177.00 | 0.89 |  | 12,908 | 11,539 |  |  | 13,449 | 11,380 | 1,127 | 12,908 | 11,539 |  | 13,449 | 11,380 | 1,127 |
| 1/13/2010 | TRUE | TRUE | TRUE | 5.30 | 9.32 | 7.74 | 68\% | 57\% | 83\% | MinMax | 1.20 | 6.9 | 6.6 |  |  |  |  |  |  |  |  | 13,449 | 11,380 | 1,127 |  |  |  | 13,449 | 11,380 | 1,127 |
| 1/14/2010 | true | true | FALSE | 4.42 | 9.08 | 7.55 | 59\% | 49\% | 83\% |  | 1.20 | 6.8 | 6.8 | 167.00 | 173.00 | 1.04 |  | 10,510 | 10,888 |  |  | 13,409 | 11,318 | 1,127 | 10,510 | 10,888 |  | 13,409 | 11,318 | 1,127 |
| 1/15/2010 | True | true | FALSE | 3.98 | 8.66 | 7.33 | 54\% | 46\% | 85\% |  | 1.18 | 6.8 | 6.9 | 228.00 |  |  |  | 13,936 |  |  |  | 13,221 | 11,274 | 1,127 | 13,936 |  |  | 13,221 | 11,274 | 1,127 |
| 1/16/2010 | TRUE | TRUE | TRUE | 3.82 | 9.34 | 6.93 | 55\% | 41\% | 74\% |  | 1.35 | 6.8 | 7.0 |  |  |  |  |  |  |  |  | 13,221 | 11,274 | 1,127 |  |  |  | 13,221 | 11,274 | 1,127 |
| 1/17/2010 | true | TRUE | TRUE | 4.05 | 11.05 | 8.35 | 49\% | 37\% | 76\% |  | 1.32 | 6.8 | 7.3 |  |  |  |  |  |  |  |  | 13,073 | 11,274 | 1,113 |  |  |  | 13,073 | 11,274 | 1,113 |
| 1/18/2010 | true | TRUE | TRUE | 6.38 | 13.96 | 11.14 | 57\% | 46\% | 80\% |  | 1.25 | 6.9 | 8.0 |  |  |  |  |  |  |  |  | 13,155 | 11,184 | 1,113 |  |  |  | 13,155 | 11,184 | 1,113 |
| 1/19/2010 | true | True | TRUE | 7.18 | 13.65 | 11.93 | 60\% | 53\% | 87\% | AvgMax | 1.14 | 6.9 | 8.3 | 258.00 |  |  |  | 25,670 |  |  | TSS | 13,155 | 11,184 | 1,113 | 24,870 |  |  | 13,155 | 11,184 | 1,113 |
| 1/20/2010 | true | true | true | 8.53 | 14.56 | 12.44 | 69\% | 59\% | 85\% | MinMax | 1.17 | 6.9 | 8.3 | 123.00 |  |  |  | 12,757 |  |  |  | 13,012 | 11,184 | 1,113 | 12,757 |  |  | 13,012 | 11,184 | 1,113 |
| 1/21/2010 | true | True | TRUE | 8.46 | 13.27 | 11.88 | 71\% | 64\% | 90\% | 'gMinMaxA' | 1.12 | 6.9 | 8.3 | 114.00 |  |  | 10.71 | 11,297 |  | 1,061 |  | 12,890 | 11,184 | 1,103 | 11,297 |  | 1,061 | 12,890 | 11,184 | 1,103 |
| 1/22/2010 | true | true | false | 7.70 | 13.30 | 10.82 | 71\% | 58\% | 81\% | inAvgMinM | 1.23 | 6.9 | 8.4 | 155.00 | 138.00 | 0.89 |  | 13,987 | 12,453 |  |  | 12,890 | 11,366 | 1,105 | 13,987 | 12,453 |  | 12,890 | 11,366 | 1,105 |
| 1/23/2010 | True | True | TRUE | 4.50 | 12.20 | 9.05 | 50\% | 37\% | 74\% |  | 1.35 | 7.0 | 8.9 |  |  |  |  |  |  |  |  | 12,765 | 11,347 | 1,105 |  |  |  | 12,765 | 11,347 | 1,105 |
| 1/24/2010 | true | TRUE | true | 5.47 | 12.00 | 9.22 | 59\% | 46\% | 77\% |  | 1.30 | 7.1 | 9.4 |  |  |  |  |  |  |  |  | 12,765 | 11,347 | 1,105 |  |  |  | 12,765 | 11,347 | 1,105 |
| 1/25/2010 | true | True | true | 5.80 | 14.61 | 12.12 | 48\% | 40\% | 83\% |  | 1.21 | 7.4 | 10.4 | 190.00 |  |  |  | 19,197 |  |  |  | 13,225 | 11,347 | 1,105 | 19,197 |  |  | 13,225 | 11,347 | 1,105 |
| 1/26/2010 | FALSE | false | true | 8.73 | 13.69 | 11.45 | 76\% | 64\% | 84\% | inAvgMinM | 1.20 | 7.4 | 10.1 | 171.00 | 135.00 | 0.79 |  | 16,331 | 12,893 |  |  | 13,432 | 11,568 | 1,105 | 16,331 | 12,893 |  | 13,432 | 11,568 | 1,105 |
| 1/27/2010 | FALSE | false | false | 6.33 | 11.63 | 9.06 | 70\% | 54\% | 78\% | MinAvg | 1.28 | 7.5 | 10.1 |  |  |  |  |  |  |  |  | 13,432 | 11,568 | 1,105 |  |  |  | 13,432 | 11,568 | 1,105 |
| 1/28/2010 | FALSE | false | false | 5.98 | 11.70 | 9.88 | 61\% | 51\% | 84\% |  | 1.18 | 7.6 | 10.1 |  |  |  | 11.06 |  |  | 911 |  | 13,432 | 11,568 | 1,066 |  |  | 911 | 13,432 | 11,568 | 1,066 |
| 1/29/2010 | FALSE | FALSE | FALSE | 5.81 | 10.82 | 9.48 | 61\% | 54\% | 88\% | AvgMax | 1.14 | 7.6 | 10.1 | 223.00 | 176.00 | 0.79 |  | 17,622 | 13,908 |  |  | 13,694 | 12,005 | 1,066 | 17,622 | 13,908 |  | 13,694 | 12,005 | 1,066 |
| 1/30/2010 | FALSE | false | true | 5.81 | 11.70 | 9.38 | 62\% | 50\% | 80\% |  | 1.25 | 7.7 | 9.9 |  |  |  |  |  |  |  |  | 13,790 | 12,005 | 1,066 |  |  |  | 13,790 | 12,005 | 1,066 |
| 1/31/2010 | FALSE | FALSE | FALSE | 5.14 | 11.38 | 9.19 | 56\% | 45\% | 81\% |  | 1.24 | 7.8 | 10.0 |  |  |  |  |  |  |  |  | 13,830 | 12,005 | 1,074 |  |  |  | 13,830 | 12,005 | 1,074 |
| 2/1/2010 | false | false | true | 5.22 | 10.71 | 9.06 | 58\% | 49\% | 85\% |  | 1.18 | 8.0 | 9.9 | 257.00 |  |  |  | 19,425 |  |  |  | 14,203 | 12,005 | 1,074 | 19,425 |  |  | 14,203 | 12,005 | 1,074 |
| 2/2/2010 | false | false | TRUE | 5.14 | 10.67 | 8.57 | 60\% | 48\% | 80\% |  | 1.25 | 8.1 | 9.2 | 165.00 | 178.00 | 1.08 |  | 11,786 | 12,715 |  |  | 14,052 | 12,094 | 1,074 | 11,786 | 12,715 |  | 14,052 | 12,094 | 1,074 |
| 2/3/2010 | false | false | true |  |  | 7.43 |  |  |  | 'gMinMaxA' | 0.00 | 8.1 | 9.2 |  |  |  |  |  |  |  |  | 14,052 | 12,094 | 1,074 |  |  |  | 14,052 | 12,094 | 1,074 |
| 2/4/2010 | FALSE | false | TRUE | 4.53 | 11.07 | 9.19 | 49\% | 41\% | 83\% |  | 1.20 | 8.3 | 9.2 | 197.00 |  |  | 15.04 | 15,101 |  | 1,153 |  | 14,181 | 12,094 | 1,090 | 15,101 |  | 1,153 | 14,181 | 12,094 | 1,090 |
| 2/5/2010 | false | false | true | 6.89 | 14.60 | 10.29 | 67\% | 47\% | 71\% |  | 1.42 | 8.4 | 9.3 | 225.00 | 187.00 | 0.83 |  | 19,317 | 16,054 |  |  | 14,579 | 12,676 | 1,090 | 19,317 | 16,054 |  | 14,579 | 12,676 | 1,090 |
| 2/6/2010 | false | false | true | 7.08 | 13.53 | 11.04 | 64\% | 52\% | 82\% |  | 1.23 | 8.6 | 9.5 |  |  |  |  |  |  |  |  | 14,579 | 12,676 | 1,090 |  |  |  | 14,579 | 12,676 | 1,090 |
| 2/7/2010 | false | false | true | 6.78 | 12.09 | 10.01 | 68\% | 56\% | 83\% | MinMax | 1.21 | 8.7 | 9.6 |  |  |  |  |  |  |  |  | 14,539 | 12,676 | 1,080 |  |  |  | 14,539 | 12,676 | 1,080 |
| 2/8/2010 | false | false | true | 5.86 | 11.30 | 10.00 | 59\% | 52\% | 88\% | AvgMax | 1.13 | 8.9 | 9.6 | 159.00 |  |  |  | 13,261 |  |  |  | 14,566 | 12,921 | 1,080 | 13,261 |  |  | 14,566 | 12,921 | 1,080 |
| 2/9/2010 | FALSE | false | TRUE | 4.87 | 13.98 | 9.30 | 52\% | 35\% | 67\% |  | 1.50 | 9.0 | 9.7 | 154.00 | 132.00 | 0.86 |  | 11,945 | 10,238 |  |  | 14,402 | 12,586 | 1,080 | 11,945 | 10,238 |  | 14,402 | 12,586 | 1,080 |
| 2/10/2010 | false | false | false | 6.31 | 12.20 | 9.20 | 69\% | 52\% | 75\% |  | 1.33 | 9.1 | 9.8 |  |  |  | 8.56 |  |  | 657 |  | 14,402 | 12,586 | 995 |  |  | 657 | 14,402 | 12,586 | 995 |
| 2/11/2010 | FALSE | false | false | 4.68 | 12.04 | 9.10 | 51\% | 39\% | 76\% |  | 1.32 | 9.3 | 9.7 | 275.00 | 196.00 | 0.71 |  | 20,871 | 14,875 |  | TSS | 14,625 | 12,840 | 946 | 20,871 | 14,875 |  | 14,625 | 12,840 | 946 |
| 2/12/2010 | false | false | TRUE | 6.65 | 9.99 | 8.29 | 80\% | 67\% | 83\% | inAvgMinM | 1.20 | 9.3 | 9.8 | 209.00 |  |  |  | 14,457 |  |  |  | 14,729 | 13,003 | 946 | 14,457 |  |  | 14,729 | 13,003 | 946 |
| 2/13/2010 | FALSE | false | false | 6.09 | 9.18 | 9.74 | 63\% | 66\% | 106\% | inMaxAvgM | 0.94 | 9.3 | 9.7 |  |  |  |  |  |  |  |  | 14,729 | 13,003 | 946 |  |  |  | 14,729 | 13,003 | 946 |
| 2/14/2010 | FALSE | false | false | 5.39 | 9.15 | 7.55 | 71\% | 59\% | 83\% | inAvgMinM | 1.21 | 9.4 | 9.2 |  |  |  |  |  |  |  |  | 15,030 | 13,305 | 946 |  |  |  | 15,030 | 13,305 | 946 |
| 2/15/2010 | FALSE | false | false | 4.64 | 10.07 | 6.83 | 68\% | 46\% | 68\% |  | 1.47 | 9.3 | 8.6 |  |  |  |  |  |  |  |  | 15,114 | 13,305 | 946 |  |  |  | 15,114 | 13,305 | 946 |
| 2/16/2010 | false | false | false | 5.18 | 9.86 | 8.24 | 63\% | 53\% | 84\% |  | 1.20 | 9.4 | 8.5 | 193.00 |  |  |  | 13,270 |  |  |  | 14,982 | 13,305 | 946 | 13,270 |  |  | 14,982 | 13,305 | 946 |
| 2/17/2010 | false | false | false | 4.86 | 9.48 | 7.01 | 69\% | 51\% | 74\% |  | 1.35 | 9.3 | 8.1 |  |  |  |  |  |  |  |  | 14,982 | 13,305 | 946 |  |  |  | 14,982 | 13,305 | 946 |
| 2/18/2010 | FALSE | false | false | 4.82 | 11.28 | 7.72 | 62\% | 43\% | 68\% |  | 1.46 | 9.1 | 7.8 | 308.00 |  |  | 14.33 | 19,841 |  | 923 |  | 15,306 | 13,305 | 941 | 19,841 |  | 923 | 15,306 | 13,305 | 941 |
| 2/19/2010 | false | false | false | 2.71 | 8.45 | 7.70 | 35\% | 32\% | 91\% | inAvgAvgM | 1.10 | 9.1 | 7.5 | 253.00 | 213.00 | 0.84 |  | 16,243 | 13,675 |  |  | 15,365 | 13,351 | 941 | 16,243 | 13,675 |  | 15,365 | 13,351 | 941 |
| 2/20/2010 | FALSE | false | true | 3.99 | 10.61 | 7.36 | 54\% | 38\% | 69\% |  | 1.44 | 9.0 | 7.4 |  |  |  |  |  |  |  |  | 15,539 | 13,351 | 941 |  |  |  | 15,539 | 13,351 | 941 |
| 2/21/2010 | false | false | false | 3.67 | 9.77 | 7.65 | 48\% | 38\% | 78\% |  | 1.28 | 9.0 | 7.5 |  |  |  |  |  |  |  |  | 15,842 | 13,351 | 911 |  |  |  | 15,842 | 13,351 | 911 |
| 2/22/2010 | FALSE | false | FALSE | 3.79 | 9.29 | 7.82 | 48\% | 41\% | 84\% |  | 1.19 | 8.9 | 7.5 | 194.00 |  |  |  | 12,649 |  |  |  | 15,746 | 13,480 | 911 | 12,649 |  |  | 15,746 | 13,480 | 911 |
| 2/23/2010 | false | false | true | 3.66 | 9.13 | 8.62 | 42\% | 40\% | 94\% | AvgMax | 1.06 | 8.9 | 7.6 | 199.00 | 184.00 | 0.92 |  | 14,313 | 13,234 |  |  | 15,650 | 13,449 | 911 | 14,313 | 13,234 |  | 15,650 | 13,449 | 911 |
| 2/24/2010 | FALSE | false | TRUE | 7.03 | 12.00 | 9.00 | 78\% | 59\% | 75\% | inAvgMinM | 1.33 | 8.9 | 7.5 |  |  |  |  |  |  |  |  | 15,650 | 13,449 | 911 |  |  |  | 15,650 | 13,449 | 911 |
| 2/25/2010 | false | false | false | 6.53 | 11.81 | 8.26 | 79\% | 55\% | 70\% | inAvgMinM | 1.43 | 8.7 | 7.6 | 178.00 |  |  | 12.74 | 12,268 |  | 878 |  | 15,188 | 13,449 | 904 | 12,268 |  | 878 | 15,188 | 13,449 | 904 |
| 2/26/2010 | FALSE | false | TrUE | 5.60 | 10.20 | 8.96 | 63\% | 55\% | 88\% | inMaxAvg | 1.14 | 8.7 | 7.6 | 157.00 | 148.00 | 0.94 |  | 11,732 | 11,060 |  |  | 14,882 | 13,220 | 904 | 11,479 | 10,991 |  | 14,865 | 13,211 | 904 |
| 2/27/2010 | false | false | false | 6.00 | 9.60 | 8.62 | 70\% | 63\% | 90\% | 'gMinMaxA' | 1.11 | 8.7 | 7.6 |  |  |  |  |  |  |  |  | 14,882 | 13,220 | 904 |  |  |  | 14,865 | 13,211 | 904 |
| 2/28/2010 | FALSE | false | false | 6.20 | 10.60 | 7.60 | 82\% | 58\% | 72\% | inAvgMinM | 1.39 | 8.6 | 7.7 |  |  |  |  |  |  |  |  | 14,882 | 13,220 | 903 |  |  |  | 14,865 | 13,211 | 903 |
| 3/1/2010 | FALSE | false | false | 6.30 | 10.20 | 8.16 | 77\% | 62\% | 80\% | inAvgMinM | 1.25 | 8.6 | 7.8 | 208.00 |  |  |  | 14,148 |  |  |  | 14,650 | 13,122 | 903 | 14,148 |  |  | 14,633 | 13,112 | 903 |
| 3/2/2010 | FALSE | false | TrUE | 6.70 | 10.90 | 8.01 | 84\% | 61\% | 74\% | inAvgMinM | 1.36 | 8.6 | \#DIV/0! | 186.00 | 143.00 | 0.77 |  | 12,432 | 9,558 |  |  | 14,512 | 12,676 | 903 | 12,432 | 9,558 |  | 14,496 | 12,668 | 903 |
| 3/3/2010 | FALSE | false | true | 6.70 | 11.20 | 8.39 | 80\% | 60\% | 75\% | inAvgMinM | 1.33 | 8.6 | \#DIV/0! |  |  |  | 13.00 |  |  | 910 |  | 14,512 | 12,676 | 904 |  |  | 910 | 14,496 | 12,668 | 904 |
| 3/4/2010 | FALSE | false | FALSE | 5.38 | 9.67 | 7.37 | 73\% | 56\% | 76\% | inAvgMinM | 1.31 | 8.5 | \#DV/0! | 194.00 |  |  |  | 11,921 |  |  |  | 14,043 | 12,676 | 904 | 11,921 |  |  | 14,027 | 12,668 | 904 |
| 3/5/2010 | FALSE | false | false | 5.16 | 11.14 | 8.04 | 64\% | 46\% | 72\% |  | 1.38 | 8.5 | 8.0 | 187.00 |  |  |  | 12,545 |  |  |  | 14,090 | 12,671 | 904 | 12,545 |  |  | 14,074 | 12,661 | 904 |
| 3/6/2010 | FALSE | false | true | 4.83 | 11.17 | 7.89 | 61\% | 43\% | 71\% |  | 1.42 | 8.4 | 8.0 |  |  |  |  |  |  |  |  | 14,090 | 12,671 | 904 |  |  |  | 14,074 | 12,661 | 904 |
| 3/7/2010 | FALSE | false | false | 4.52 | 8.61 | 7.65 | 59\% | 52\% | 89\% | AvgMax | 1.13 | 8.4 | 8.0 |  |  |  |  |  |  |  |  | 14,023 | 12,671 | 842 |  |  |  | 14,006 | 12,661 | 842 |
| 3/8/2010 | FALSE | false | true | 4.38 | 9.29 | 8.76 | 50\% | 47\% | 94\% | AvgMax | 1.06 | 8.2 | 8.0 | 172.00 |  |  |  | 12,566 |  |  |  | 13,573 | 12,107 | 842 | 12,566 |  |  | 13,556 | 12,095 | 842 |
| 3/9/2010 | FALSE | false | true | 4.59 | 9.65 | 7.30 | 63\% | 48\% | 76\% |  | 1.32 | 8.0 | 7.7 | 174.00 | 147.00 | 0.84 |  | 10,593 | 8,950 |  |  | 13,386 | 11,656 | 842 | 10,593 | 8,950 |  | 13,371 | 11,646 | 842 |
| 3/10/2010 | FALSE | FALSE | TRUE | 4.10 | 9.28 | 9.24 | 44\% | 44\% | 100\% | AvgMax | 1.00 | 8.0 | 7.7 |  |  |  |  |  |  |  |  | 13,386 | 11,656 | 842 |  |  |  | 13,371 | 11,646 | 842 |
| 3/11/2010 | FALSE | false | false | 2.39 | 8.87 | 7.88 | 30\% | 27\% | 89\% | inAvgAvgM | 1.13 | 8.0 | 7.7 | 219.00 |  |  | 14.70 | 14,393 |  | 966 |  | 13,457 | 11,656 | 867 | 14,393 |  | 966 | 13,441 | 11,646 | 867 |


| Date | $\begin{aligned} & \text { Butte } \\ & \text { Break? } \end{aligned}$ | $\underset{\text { Break? }}{\text { csu }}$ | Precip? |  | $\begin{gathered} \text { Max } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | $\begin{gathered} \text { Avg } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | Min \% of | Min \% of <br> max | Avg \% of | $\begin{aligned} & \text { Flow } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | $\begin{aligned} & \text { Diurnal } \\ & \text { Peak } \\ & \text { Factor } \\ & \text { (DPF) } \end{aligned}$ | 30-d Avg Flow, mgd | 7-d Avg of Avg Flow, mgd | Influent TSS Conc., mg/L | $\begin{gathered} \text { Influent } \\ \text { BoD } \\ \text { Conc., } \\ \mathrm{mg} / \mathrm{L} \end{gathered}$ | Bod/Tss | Influent NH3-N Conc., mg/L | Avg linf ppd | Avg Inf BOD Load, ppd | Avg Inf NH3 Load, ppd | $\begin{aligned} & \text { Load } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | 30-d Avg of TSS Load, ppd | 30-d Avg of BOD Load, ppd | 30-d Avg of NH3-N Load, ppd | non-SN TSS Load, ppc | non-SN BOD Load, ppd | non-SN NH3 Load, ppd | $\begin{gathered} \text { 30-d Avg } \\ \text { of non-SN } \\ \text { TsS Load, } \\ \text { ppd } \end{gathered}$ | $\begin{aligned} & \text { 30-d Avg } \\ & \text { of non-SN } \\ & \text { BOD Load, } \\ & \text { ppd } \end{aligned}$ | 30-d Avg of non-SN NH3-N Load, ppd |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3/12/2010 | TRUE | True | TRUE | 2.85 | 8.86 | 7.60 | 38\% | 32\% | 86\% | inAvgAvgM | 1.17 | 7.8 | 7.7 | 205.00 | 186.00 | 0.91 |  | 12,994 | 11,789 |  |  | 13,523 | 11,877 | 867 | 12,994 | 11,789 |  | 13,507 | 11,867 | 867 |
| 3/13/2010 | true | true | FALSE | 2.41 | 8.37 | 6.98 | 35\% | 29\% | 83\% | MinAvg | 1.20 | 7.7 | 7.6 |  |  |  |  |  |  |  |  | 13,523 | 11,877 | 919 |  |  |  | 13,507 | 11,867 | 919 |
| 3/14/2010 | true | True | FALSE |  |  | 6.72 |  |  |  | gMinMaxA | 0.00 | 7.6 | 7.3 |  |  |  |  |  |  |  |  | 13,523 | 11,378 | 919 |  |  |  | 13,507 | 11,366 | 919 |
| 3/15/2010 | true | True | FALSE |  |  | 6.78 |  |  |  | 'gMinMaxA' | 0.00 | 7.6 | 7.3 | 214.00 |  |  |  | 12,101 |  |  |  | 13,376 | 11,378 | 919 | 12,101 |  |  | 13,360 | 11,366 | 919 |
| 3/16/2010 | true | TRUE | FALSE |  |  | 6.65 |  |  |  | gMinMaxA | 0.00 | 7.6 | 7.3 | 181.00 | 154.00 | 0.85 |  | 10,038 | 8,541 |  |  | 13,179 | 10,972 | 919 | 10,038 | 8,541 |  | 13,164 | 10,963 | 919 |
| 3/17/2010 | true | True | FALSE |  |  | 7.22 |  |  |  | 'gMinMaxA' | 0.00 | 7.6 | \#DIV/0! |  |  |  |  |  |  |  |  | 13,179 | 10,972 | 919 |  |  |  | 13,164 | 10,963 | 919 |
| 3/18/2010 | true | TRUE | FALSE |  |  | 6.83 |  |  |  | 'gMinMaxA' | 0.00 | 7.7 | \#DIV/0! | 109.00 |  |  |  | 6,209 |  |  |  | 12,792 | 10,972 | 919 | 6,209 |  |  | 12,778 | 10,963 | 919 |
| 3/19/2010 | true | True | FALSE | 2.67 | 7.97 | 6.07 | 44\% | 34\% | 76\% |  | 1.31 | 7.4 | 6.1 | 210.00 |  |  | 15.78 | 10,635 |  | 799 |  | 12,646 | 10,972 | 895 | 10,635 |  | 799 | 12,632 | 10,963 | 895 |
| 3/20/2010 | TRUE | true | FALSE | 3.19 | 9.17 | 6.70 | 48\% | 35\% | 73\% |  | 1.37 | 7.4 | 6.4 |  |  |  |  |  |  |  |  | 12,646 | 10,972 | 895 |  |  |  | 12,632 | 10,963 | 895 |
| 3/21/2010 | true | True | FALSE | 3.15 | 8.90 | 6.82 | 46\% | 35\% | 77\% |  | 1.31 | 7.3 | 6.5 |  |  |  |  |  |  |  |  | 12,222 | 10,972 | 888 |  |  |  | 12,207 | 10,963 | 888 |
| 3/22/2010 | TRUE | true | FALSE | 3.31 | 8.94 | 7.46 | 44\% | 37\% | 83\% |  | 1.20 | 7.3 | 6.8 | 265.00 |  |  |  | 16,483 |  |  |  | 12,236 | 10,522 | 888 | 16,483 |  |  | 12,222 | 10,511 | 888 |
| 3/23/2010 | FALSE | FALSE | FALSE | 3.37 | 9.00 | 6.79 | 50\% | 37\% | 75\% |  | 1.32 | 7.3 | 6.8 | 242.00 | 229.00 | 0.95 |  | 13,710 | 12,974 |  |  | 12,318 | 10,872 | 888 | 13,710 | 12,974 |  | 12,304 | 10,862 | 888 |
| 3/24/2010 | false | FALSE | TRUE |  |  | 7.59 |  |  |  | 'gMinMaxA | 0.00 | 7.2 | 6.8 |  |  |  |  |  |  |  |  | 12,318 | 10,872 | 888 |  |  |  | 12,304 | 10,862 | 888 |
| 3/25/2010 | FALSE | FALSE | TRUE |  |  | 7.53 |  |  |  | 'gMinMaxA' | 0.00 | 7.1 | 6.8 | 247.00 |  |  | 20.33 | 15,512 |  | 1,277 |  | 12,477 | 10,872 | 966 | 15,512 |  | 1,277 | 12,463 | 10,862 | 966 |
| 3/26/2010 | FALSE | FALSE | FALSE | 3.46 | 8.99 | 6.52 | 53\% | 38\% | 73\% |  | 1.38 | 7.1 | 6.7 | 212.00 |  |  |  | 11,524 |  |  |  | 12,322 | 10,478 | 966 | 11,524 |  |  | 12,308 | 10,467 | 966 |
| 3/27/2010 | false | FALSE | FALSE | 3.05 | 9.38 | 6.95 | 44\% | 33\% | 74\% |  | 1.35 | 7.1 | 6.9 |  |  |  |  |  |  |  |  | 12,322 | 10,478 | 966 |  |  |  | 12,308 | 10,467 | 966 |
| 3/28/2010 | FALSE | FALSE | FALSE | 3.12 | 10.07 | 7.12 | 44\% | 31\% | 71\% |  | 1.41 | 7.1 | 6.9 |  |  |  |  |  |  |  |  | 12,326 | 10,478 | 988 |  |  |  | 12,311 | 10,467 | 988 |
| 3/29/2010 | false | FALSE | FALSE | 3.28 | 9.41 | 7.16 | 46\% | 35\% | 76\% |  | 1.31 | 7.1 | 7.0 |  |  |  |  |  |  |  |  | 12,363 | 10,362 | 988 |  |  |  | 12,363 | 10,362 | 988 |
| 3/30/2010 | FALSE | FALSE | FALSE | 3.35 | 9.35 | 7.23 | 46\% | 36\% | 77\% |  | 1.29 | 7.1 | 7.0 | 356.00 | 239.00 | 0.67 |  | 21,451 | 14,401 |  | TSS | 12,363 | 11,035 | 988 | 21,451 | 14,401 |  | 12,363 | 11,035 | 988 |
| 3/31/2010 | FALSE | FALSE | FALSE | 3.32 | 9.38 | 7.10 | 47\% | 35\% | 76\% |  | 1.32 | 7.1 | 7.0 |  |  |  |  |  |  |  |  | 12,363 | 11,035 | 988 |  |  |  | 12,363 | 11,035 | 988 |
| 4/1/2010 | false | FALSE | FALSE | 3.65 | 9.22 | 6.96 | 52\% | 40\% | 75\% |  | 1.33 | 7.1 | 7.0 | 221.00 |  |  | 21.12 | 12,821 |  | 1,225 |  | 12,280 | 11,035 | 1,035 | 12,821 |  | 1,225 | 12,280 | 11,035 | 1,035 |
| 4/2/2010 | FALSE | FALSE | TRUE | 3.44 | 10.37 | 7.17 | 48\% | 33\% | 69\% |  | 1.45 | 7.1 | 7.0 | 185.00 | 203.00 | 1.10 |  | 11,061 | 12,137 |  |  | 12,194 | 11,465 | 1,035 | 11,061 | 12,137 |  | 12,194 | 11,465 | 1,035 |
| 4/3/2010 | FALSE | FALSE | FALSE | 3.32 | 9.15 | 6.86 | 48\% | 36\% | 75\% |  | 1.33 | 7.1 | 7.1 |  |  |  |  |  |  |  |  | 12,194 | 11,465 | 1,067 |  |  |  | 12,194 | 11,465 | 1,067 |
| 4/4/2010 | FALSE | FALSE | FALSE | 5.00 | 11.50 | 7.23 | 69\% | 43\% | 63\% |  | 1.59 | 7.1 | 7.1 |  |  |  |  |  |  |  |  | 12,212 | 11,465 | 1,067 |  |  |  | 12,212 | 11,465 | 1,067 |
| 4/5/2010 | FALSE | FALSE | FALSE | 3.84 | 9.68 | 7.95 | 48\% | 40\% | 82\% |  | 1.22 | 7.1 | 7.2 | 237.00 |  |  |  | 15,712 |  |  |  | 12,423 | 11,465 | 1,067 | 15,712 |  |  | 12,423 | 11,465 | 1,067 |
| 4/6/2010 | FALSE | FALSE | FALSE | 3.68 | 9.37 | 7.71 | 48\% | 39\% | 82\% |  | 1.22 | 7.1 | 7.3 | 224.00 | 211.00 | 0.94 |  | 14,398 | 13,562 |  |  | 12,547 | 11,765 | 1,067 | 14,398 | 13,562 |  | 12,547 | 11,765 | 1,067 |
| 4/7/2010 | FALSE | FALSE | FALSE | 3.59 | 9.32 | 7.26 | 49\% | 39\% | 78\% |  | 1.28 | 7.1 | 7.3 |  |  |  |  |  |  |  |  | 12,547 | 11,765 | 1,067 |  |  |  | 12,547 | 11,765 | 1,067 |
| 4/8/2010 | false | FALSE | FALSE | 3.65 | 8.97 | 7.55 | 48\% | 41\% | 84\% |  | 1.19 | 7.1 | 7.3 | 212.00 |  |  | 21.53 | 13,342 |  | 1,355 |  | 12,595 | 11,765 | 1,124 | 13,342 |  | 1,355 | 12,595 | 11,765 | 1,124 |
| 4/9/2010 | FALSE | FALSE | FALSE | 3.60 | 9.00 | 7.42 | 49\% | 40\% | 82\% |  | 1.21 | 7.1 | 7.4 | 203.00 | 203.00 | 1.00 |  | 12,562 | 12,562 |  |  | 12,718 | 12,281 | 1,124 | 12,562 | 12,562 |  | 12,718 | 12,281 | 1,124 |
| 4/10/2010 | FALSE | FALSE | FALSE | 3.70 | 9.20 | 7.10 | 52\% | 40\% | 77\% |  | 1.30 | 7.1 | 7.4 |  |  |  |  |  |  |  |  | 12,718 | 12,281 | 1,124 |  |  |  | 12,718 | 12,281 | 1,124 |
| 4/1/2010 | FALSE | FALSE | TRUE | 3.39 | 10.35 | 8.47 | 40\% | 33\% | 82\% | MinAvg | 1.22 | 7.1 | 7.5 |  |  |  |  |  |  |  |  | 12,607 | 12,281 | 1,164 |  |  |  | 12,607 | 12,281 | 1,164 |
| 4/12/2010 | FALSE | FALSE | true | 5.60 | 11.83 | 10.00 | 56\% | 47\% | 85\% |  | 1.18 | 7.2 | 7.9 | 239.00 |  |  |  | 19,933 |  |  |  | 13,069 | 12,363 | 1,164 | 19,933 |  |  | 13,069 | 12,363 | 1,164 |
| 4/13/2010 | FALSE | FALSE | True | 5.96 | 11.67 | 9.65 | 62\% | 51\% | 83\% |  | 1.21 | 7.3 | 8.1 | 218.00 | 159.00 | 0.73 |  | 17,543 | 12,795 |  |  | 13,349 | 12,425 | 1,164 | 17,543 | 12,795 |  | 13,349 | 12,425 | 1,164 |
| 4/14/2010 | FALSE | FALSE | TRUE | 5.04 | 11.50 | 9.17 | 55\% | 44\% | 80\% |  | 1.25 | 7.4 | 8.3 |  |  |  |  |  |  |  |  | 13,349 | 12,425 | 1,164 |  |  |  | 13,349 | 12,425 | 1,164 |
| 4/15/2010 | FALSE | FALSE | FALSE | 4.80 | 10.11 | 8.37 | 57\% | 47\% | 83\% |  | 1.21 | 7.5 | 8.5 | 206.00 |  |  | 14.37 | 14,383 |  | 1,003 |  | 13,492 | 12,425 | 1,132 | 14,383 |  | 1,003 | 13,492 | 12,425 | 1,132 |
| 4/16/2010 | false | FALSE | FALSE | 4.44 | 9.87 | 7.92 | 56\% | 45\% | 80\% |  | 1.25 | 7.5 | 8.5 | 243.00 | 176.00 | 0.72 |  | 16,059 | 11,631 |  |  | 13,868 | 12,866 | 1,132 | 16,059 | 11,631 |  | 13,868 | 12,866 | 1,132 |
| 4/17/2010 | FALSE | FALSE | FALSE | 3.82 | 10.14 | 7.61 | 50\% | 38\% | 75\% |  | 1.33 | 7.5 | 8.5 |  |  |  |  |  |  |  |  | 13,868 | 12,866 | 1,132 |  |  |  | 13,868 | 12,866 | 1,132 |
| 4/18/2010 | FALSE | FALSE | FALSE | 3.90 | 10.10 | 8.30 | 47\% | 39\% | 82\% |  | 1.22 | 7.5 | 8.7 |  |  |  |  |  |  |  |  | 14,378 | 12,866 | 1,132 |  |  |  | 14,378 | 12,866 | 1,132 |
| 4/19/2010 | FALSE | FALSE | FALSE | 4.30 | 10.00 | 7.16 | 60\% | 43\% | 72\% |  | 1.40 | 7.5 | 8.5 | 190.00 |  |  | 17.91 | 11,346 |  | 1,069 |  | 14,426 | 12,866 | 1,186 | 11,346 |  | 1,069 | 14,426 | 12,866 | 1,186 |
| 4/20/2010 | false | FALSE | TRUE | 4.40 | 10.20 | 9.40 | 47\% | 43\% | 92\% | AvgMax | 1.09 | 7.6 | 8.3 | 201.00 |  |  |  | 15,758 |  |  |  | 14,509 | 12,866 | 1,186 | 15,758 |  |  | 14,509 | 12,866 | 1,186 |
| 4/21/2010 | FALSE | FALSE | TRUE | 4.20 | 10.60 | 8.98 | 47\% | 40\% | 85\% |  | 1.18 | 7.7 | 8.2 | 220.00 | 162.00 | 0.74 |  | 16,477 | 12,133 |  |  | 14,625 | 12,774 | 1,186 | 16,477 | 12,133 |  | 14,625 | 12,774 | 1,186 |
| 4/22/2010 | false | FALSE | FALSE | 4.80 | 10.10 | 8.82 | 54\% | 48\% | 87\% | AvgMax | 1.15 | 7.7 | 8.1 |  |  |  |  |  |  |  |  | 14,509 | 12,774 | 1,186 |  |  |  | 14,509 | 12,774 | 1,186 |
| 4/23/2010 | FALSE | FALSE | FALSE | 4.45 | 9.89 | 7.79 | 57\% | 45\% | 79\% |  | 1.27 | 7.7 | 8.0 |  |  |  |  |  |  |  |  | 14,562 | 12,746 | 1,186 |  |  |  | 14,562 | 12,746 | 1,186 |
| 4/24/2010 | FALSE | FALSE | FALSE | 3.90 | 9.98 | 7.50 | 52\% | 39\% | 75\% |  | 1.33 | 7.7 | 7.9 |  |  |  |  |  |  |  |  | 14,562 | 12,746 | 1,186 |  |  |  | 14,562 | 12,746 | 1,186 |
| 4/25/2010 | false | FALSE | FALSE | 3.49 | 9.55 | 7.29 | 48\% | 37\% | 76\% |  | 1.31 | 7.7 | 7.8 |  |  |  |  |  |  |  |  | 14,494 | 12,746 | 1,163 |  |  |  | 14,494 | 12,746 | 1,163 |
| 4/26/2010 | FALSE | FALSE | TRUE | 3.72 | 9.34 | 7.72 | 48\% | 40\% | 83\% |  | 1.21 | 7.7 | 7.7 | 319.00 |  |  |  | 20,549 |  |  | TSS | 14,723 | 12,746 | 1,163 | 20,549 |  |  | 14,723 | 12,746 | 1,163 |
| 4/27/2010 | FALSE | FALSE | TRUE | 4.12 | 9.39 | 7.74 | 53\% | 44\% | 82\% |  | 1.21 | 7.7 | 7.8 | 221.00 | 166.00 | 0.75 |  | 14,262 | 10,713 |  |  | 14,690 | 12,492 | 1,163 | 14,262 | 10,713 |  | 14,690 | 12,492 | 1,163 |
| 4/28/2010 | FALSE | FALSE | TRUE | 4.06 | 9.65 | 7.97 | 51\% | 42\% | 83\% |  | 1.21 | 7.8 | 7.9 |  |  |  |  |  |  |  |  | 14,690 | 12,492 | 1,163 |  |  |  | 14,690 | 12,492 | 1,163 |
| 4/29/2010 | FALSE | FALSE | TRUE |  |  | 7.36 |  |  |  | 'gMinMaxA' | 0.00 | 7.8 | 7.7 |  |  |  | 34.58 |  |  | 2,121 | NH3 | 14,690 | 12,492 | 1,163 |  |  | 2,121 | 14,690 | 12,492 | 1,163 |
| 4/30/2010 | FALSE | FALSE | FALSE | 4.64 | 8.92 | 7.33 | 63\% | 52\% | 82\% |  | 1.22 | 7.8 | 7.6 | 181.00 |  |  |  | 11,059 |  |  |  | 14,448 | 12,219 | 1,163 | 11,059 |  |  | 14,448 | 12,219 | 1,163 |
| 5/1/2010 | FALSE | FALSE | FALSE | 3.48 | 9.02 | 6.59 | 53\% | 39\% | 73\% |  | 1.37 | 7.8 | 7.4 |  |  |  |  |  |  |  |  | 14,448 | 12,219 | 1,163 |  |  |  | 14,448 | 12,219 | 1,163 |
| 5/2/2010 | FALSE | FALSE | FALSE | 3.18 | 8.16 | 6.47 | 49\% | 39\% | 79\% |  | 1.26 | 7.8 | 7.3 |  |  |  |  |  |  |  |  | 14,564 | 12,219 | 1,143 |  |  |  | 14,564 | 12,219 | 1,143 |
| 5/3/2010 | FALSE | FALSE | FALSE | 2.80 | 7.90 | 6.35 | 44\% | 35\% | 80\% |  | 1.24 | 7.7 | 7.2 | 173.00 |  |  |  | 9,162 |  |  |  | 14,428 | 12,233 | 1,143 | 9,162 |  |  | 14,428 | 12,233 | 1,143 |
| 5/4/2010 | FALSE | FALSE | FALSE | 2.53 | 9.07 | 6.40 | 40\% | 28\% | 71\% | MinAvg | 1.42 | 7.8 | 7.1 |  |  |  |  |  |  |  |  | 14,428 | 12,233 | 1,143 |  |  |  | 14,428 | 12,233 | 1,143 |
| 5/5/2010 | FALSE | FALSE | FALSE | 2.20 | 8.50 | 6.40 | 34\% | 26\% | 75\% | MinAvg | 1.33 | 7.8 | 6.9 | 195.00 |  |  |  | 10,408 |  |  |  | 14,160 | 12,233 | 1,143 | 10,408 |  |  | 14,160 | 12,233 | 1,143 |
| 5/6/2010 | FALSE | FALSE | FALSE | 2.10 | 9.70 | 6.40 | 33\% | 22\% | 66\% | inAvgMinM | 1.52 | 7.8 | 6.7 | 223.00 |  |  | 20.54 | 11,903 |  | 1,096 |  | 13,906 | 12,233 | 1,131 | 11,903 |  | 1,096 | 13,906 | 12,233 | 1,131 |
| 5/7/2010 | FALSE | FALSE | FALSE | 3.39 | 6.87 | 6.52 | 52\% | 49\% | 95\% | AvgMax | 1.05 | 7.8 | 6.7 | 235.00 | 196.00 | 0.83 |  | 12,779 | 10,658 |  |  | 13,798 | 11,749 | 1,131 | 12,779 | 10,658 |  | 13,798 | 11,749 | 1,131 |
| 5/8/2010 | FALSE | FALSE | FALSE | 3.43 | 7.83 | 6.30 | 54\% | 44\% | 80\% |  | 1.24 | 7.8 | 6.4 |  |  |  |  |  |  |  |  | 13,798 | 11,749 | 1,131 |  |  |  | 13,798 | 11,749 | 1,131 |
| 5/9/2010 | FALSE | FALSE | FALSE |  |  |  |  |  |  | gMinMaxA |  | 7.8 | 6.4 |  |  |  |  |  |  |  |  | 13,831 | 11,749 | 1,056 |  |  |  | 13,831 | 11,749 | 1,056 |
| 5/10/2010 | FALSE | FALSE | TRUE |  |  |  |  |  |  | 'gMinMaxA' |  | 7.8 | 6.3 | 203.00 |  |  | 23.08 |  |  |  |  | 13,929 | 11,586 | 1,056 |  |  |  | 13,929 | 11,586 | 1,056 |
| 5/11/2010 | FALSE | FALSE | FALSE |  |  |  |  |  |  | gMinMaxA |  | 7.8 | 6.3 | 123.00 | 160.00 | 1.30 |  |  |  |  |  | 13,929 | 11,586 | 1,056 |  |  |  | 13,929 | 11,586 | 1,056 |
| $5 / 12 / 2010$ $5 / 13 / 2010$ | ${ }_{\text {FALSE }}$ | ${ }_{\text {FALSE }}$ | ${ }_{\text {FALLSE }}$ |  |  |  |  |  |  |  |  | 7.8 7.7 | ${ }_{6}^{6.3}$ |  |  |  |  |  |  |  |  | 13,929 13,428 | 11,586 11,586 | 1 1,056 |  |  |  | 13,929 13,428 | 11,586 11,586 | $\xrightarrow{1,056}$ |
| 5/13/2010 | FALSE | FALSE | FALSE |  |  |  |  |  |  | 'gMinMaxA' |  | 7.7 | 6.3 | 234.00 |  |  |  |  |  |  |  | 13,428 | 11,586 | 1,056 |  |  |  | 13,428 | 11,586 | 1,056 |


| Date | $\begin{aligned} & \text { Butte } \\ & \text { Break? } \end{aligned}$ | $\underset{\text { Break? }}{\text { csu }}$ | Precip? | $\begin{gathered} \text { Min } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | $\begin{gathered} \text { Max } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | Avg Influent Flow, mgd | Min \% of Avg | Min \% of Max | $\begin{gathered} \text { Avg } \% \text { of } \\ \text { Max } \end{gathered}$ | $\begin{aligned} & \text { Flow } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | $\begin{aligned} & \text { Diurnal } \\ & \text { Peak } \\ & \text { Factor } \\ & \text { (DPF) } \end{aligned}$ | $\begin{gathered} \text { 30-d Avg } \\ \text { of Avg } \\ \text { Flow, } \mathrm{mgd} \end{gathered}$ | 7-d Avg of Avg Flow, mgd | Influent TSS Conc. mg/L | $\begin{aligned} & \text { Influent } \\ & \text { BoD } \\ & \text { Conc, } \\ & \text { mg/L } \end{aligned}$ | BOD/TSS Ratio | Influent NH3-N Conc., mg/L | Avg linf TSS Load, ppd | $\begin{gathered} \text { Avg } \operatorname{lnf} \\ \text { BOD Load, } \\ \text { ppd } \end{gathered}$ | Avg linf NH3 Load, ppd | $\begin{gathered} \text { Load } \\ \text { Outier } \\ \text { Type } \end{gathered}$ | 30-d Avg of TSS Load, ppd | 30-d Avg of BOD Load, ppd | 30-d Avg of NH3-N Load, ppd | non-SN TSS Load, ppd | $\begin{aligned} & \text { non-SN } \\ & \text { BOD Load, } \\ & \text { ppd } \end{aligned}$ | non-SN ppd | 30-d Avg of non-SN TSS Load, ppd | 30-d Avg of non-SN BOD Load ppd | 30-d AvE of non-SN NH3-N Load, pp |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5/14/2010 | FALSE | FALSE | FALSE |  |  |  |  |  |  | 'gMinMaxA' |  | 7.6 | 6.3 | 184.00 |  |  |  |  |  |  |  | 13,054 | 11,284 | 1,056 |  |  |  | 13,054 | 11,284 | 1,056 |
| 5/15/2010 | FALSE | FALSE | FALSE |  |  |  |  |  |  | 'gMinMaxA' |  | 7.5 | 6.3 |  |  |  |  |  |  |  |  | 13,054 | 11,284 | 1,056 |  |  |  | 13,054 | 11,284 | 1,056 |
| 5/16/2010 | FALSE | FALSE | FALSE |  |  |  |  |  |  | 'gMinMaxA' |  | 7.4 |  |  |  |  |  |  |  |  |  | 12,921 | 11,284 | 1,083 |  |  |  | 12,921 | 11,284 | 1,083 |
| 5/17/2010 | FALSE | FALSE | true |  |  |  |  |  |  | 'gMinMaxA' |  | 7.4 |  | 108.00 |  |  | 22.90 |  |  |  |  | 12,573 | 11,168 | 1,083 |  |  |  | 12,573 | 11,168 | 1,083 |
| 5/18/2010 | FALSE | FALSE | true |  |  |  |  |  |  | 'gMinMaxA' |  | 7.4 |  | 221.00 | 190.00 | 0.86 |  |  |  |  |  | 12,573 | 11,168 | 1,083 |  |  |  | 12,573 | 11,168 | 1,083 |
| 5/19/2010 | FALSE | FALSE | TRUE |  |  |  |  |  |  | 'gMinMaxA' |  | 7.3 |  |  |  |  |  |  |  |  |  | 12,573 | 11,168 | 1,083 |  |  |  | 12,573 | 11,168 | 1,083 |
| 5/20/2010 | FALSE | FALSE | FALSE |  |  |  |  |  |  | 'gMinMaxA' |  | 7.3 |  | 190.00 |  |  |  |  |  |  |  | 12,726 | 11,168 | 1,096 |  |  |  | 12,726 | 11,168 | 1,096 |
| 5/21/2010 | FALSE | FALSE | FALSE |  |  |  |  |  |  | 'gMinMaxA' |  | 7.3 |  | 218.00 |  |  |  |  |  |  |  | 12,293 | 11,168 | 1,096 |  |  |  | 12,293 | 11,168 | 1,096 |
| 5/22/2010 | FALSE | FALSE | FALSE |  |  |  |  |  |  | 'gMinMaxA |  | 7.2 |  |  |  |  |  |  |  |  |  | 11,595 | 10,685 | 1,096 |  |  |  | 11,595 | 10,685 | 1,096 |
| 5/23/2010 | FALSE | TRUE | FALSE |  |  |  |  |  |  | 'gMinMaxA' |  | 7.2 |  |  |  |  |  |  |  |  |  | 11,595 | 10,685 | 1,096 |  |  |  | 11,595 | 10,685 | 1,096 |
| 5/24/2010 | FALSE | true | FALSE |  |  |  |  |  |  | 'gMinMaxA' |  | 7.1 |  | 195.00 |  |  |  |  |  |  |  | 11,595 | 10,685 | 1,096 |  |  |  | 11,595 | 10,685 | 1,096 |
| 5/25/2010 | FALSE | TRUE | True |  |  |  |  |  |  | 'gMinMaxA' |  | 7.1 |  | 182.00 | 203.00 | 1.12 |  |  |  |  |  | 11,595 | 10,685 | 1,096 |  |  |  | 11,595 | 10,685 | 1,096 |
| 5/26/2010 | FALSE | true | false |  |  |  |  |  |  | 'gMinMaxA' |  | 7.1 |  |  |  |  |  |  |  |  |  | 11,595 | 10,685 | 1,096 |  |  |  | 11,595 | 10,685 | 1,096 |
| 5/27/2010 | FALSE | TRUE | True |  |  |  |  |  |  | 'gMinMaxA' |  | 7.0 |  | 220.00 |  |  | 20.92 |  |  |  |  | 11,595 | 10,685 | 1,096 |  |  |  | 11,595 | 10,685 | 1,096 |
| 5/28/2010 | TRUE | true | TRUE |  |  | 6.45 |  |  |  | 'gMinMaxA' | 0.00 | 6.8 | \#IV/0! | 27.00 | 261.00 | 0.97 |  | 14,524 | 14,040 |  |  | 11,639 | 12,349 | 1,096 | 14,524 | 14,040 |  | 11,639 | 12,349 | 1,096 |
| 5/29/2010 | TRUE | TRUE | FALSE |  |  | 6.16 |  |  |  | 'gMinMaxA | 0.00 | 6.6 | \#IV/0! |  |  |  |  |  |  |  |  | 11,639 | 12,349 | 1,096 |  |  |  | 11,639 | 12,349 | 1,096 |
| 5/30/2010 | TRUE | True | FALSE |  |  | 5.85 |  |  |  | 'gMinMaxA' | 0.00 | 6.6 | \#DIV/0! |  |  |  |  |  |  |  |  | 11,639 | 12,349 | 1,096 |  |  |  | 11,639 | 12,349 | 1,096 |
| 5/31/2010 | TRUE | true | FALSE |  |  | 6.21 |  |  |  | 'gMinMaxA' | 0.00 | 6.4 | \#IV/0! |  |  |  |  |  |  |  |  | 11,755 | 12,349 | 1,096 |  |  |  | 11,755 | 12,349 | 1,096 |
| 6/1/2010 | TRUE | True | FALSE |  |  | 6.15 |  |  |  | 'gMinMaxA' | 0.00 | 6.4 | \#DIV/0! | 184.00 | 183.00 | 0.99 |  | 9,438 | 9,386 |  |  | 11,369 | 11,361 | 1,096 | 9,438 | 9,386 |  | 11,369 | 11,361 | 1,096 |
| 6/2/2010 | TRUE | true | FALSE |  |  | 6.33 |  |  |  | 'gMinMaxA' | 0.00 | 6.3 | \#DIV/0! |  |  |  |  |  |  |  |  | 11,369 | 11,361 | 1,096 |  |  |  | 11,369 | 11,361 | 1,096 |
| 6/3/2010 | TRUE | True | FALSE |  |  | 6.27 |  |  |  | 'gMinMaxA | 0.00 | 6.3 | \#DiV/0! | 188.00 |  |  | 20.00 | 9,831 |  | 1,046 |  | 11,480 | 11,361 | 1,071 | 9,831 |  | 1,046 | 11,480 | 11,361 | 1,071 |
| 6/4/2010 | TRUE | true | TRUE |  |  | 6.17 |  |  |  | 'gMinMaxA' | 0.00 | 6.3 | \#IV/0! | 205.00 | 212.00 | 1.03 |  | 10,549 | 10,909 |  |  | 11,347 | 11,248 | 1,071 | 10,549 | 10,909 |  | 11,347 | 11,248 | 1,071 |
| 6/5/2010 | TRUE | True | FALSE |  |  | 5.72 |  |  |  | 'gMinMaxA | 0.00 | 6.3 | \#DiV/0! |  |  |  |  |  |  |  |  | 11,504 | 11,248 | 1,071 |  |  |  | 11,504 | 11,248 | 1,071 |
| 6/6/2010 | TRUE | TRUE | FALSE |  |  | 5.98 |  |  |  | 'gMinMaxA' | 0.00 | 6.3 | \#IV/0! |  |  |  |  |  |  |  |  | 11,424 | 11,248 | 1,046 |  |  |  | 11,424 | 11,248 | 1,046 |
| 6/7/2010 | TRUE | True | FALSE |  |  | 6.32 |  |  |  | 'gMinMaxA ${ }^{\text {a }}$ | 0.00 | 6.3 | \#DiV/0! | 163.00 |  |  | 20.42 | 8,592 |  | 1,076 |  | 10,587 | 11,445 | 1,061 | 8,592 |  | 1,076 | 10,587 | 11,445 | 1,061 |
| 6/8/2010 | TRUE | TRUE | FALSE |  |  | 6.29 |  |  |  | 'gMinMaxA' | 0.00 | \#DV/0! | \#DIV/0! | 188.00 |  |  |  | 9,862 |  |  |  | 10,466 | 11,445 | 1,061 | 9,862 |  |  | 10,466 | 11,445 | 1,061 |
| 6/9/2010 | True | True | FALSE |  |  | 6.35 |  |  |  | 'gMinMaxA | 0.00 | \#DV/0! | \#DiV/0! |  |  |  |  |  |  |  |  | 10,466 | 11,445 | 1,061 |  |  |  | 10,466 | 11,445 | 1,061 |
| 6/10/2010 | TRUE | TRUE | FALSE |  |  | 6.24 |  |  |  | 'gMinMaxA | 0.00 | \#DV/0! | \#IV/0! | 233.00 |  |  |  | 12,126 |  |  |  | 10,703 | 11,445 | 1,061 | 12,126 |  |  | 10,703 | 11,445 | 1,061 |
| 6/11/2010 | TRUE | true | FALSE |  |  | 6.13 |  |  |  | 'gMinMaxA' | 0.00 | \#DIV/0! | \#DiV/0! | 229.00 |  |  |  | 11,707 |  |  |  | 10,829 | 11,445 | 1,061 | 11,707 |  |  | 10,829 | 11,445 | 1,061 |
| 6/12/2010 | TRUE | TRUE | FALSE |  |  | 5.88 |  |  |  | 'gMinMaxA' | 0.00 | \#DIV/0! | \#IV/0! |  |  |  |  |  |  |  |  | 10,829 | 11,445 | 1,061 |  |  |  | 10,829 | 11,445 | 1,061 |
| 6/13/2010 | TRUE | true | FALSE | 3.41 | 7.95 | 5.88 | 58\% | 43\% | 74\% |  | 1.35 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 10,829 | 11,445 | 1,061 |  |  |  | 10,829 | 11,445 | 1,061 |
| 6/14/2010 | TRUE | TRUE | FALSE | 3.45 | 7.93 | 6.15 | 56\% | 44\% | 78\% |  | 1.29 | 6.0 | 6.0 | 180.00 |  |  |  | 9,232 |  |  |  | 10,651 | 11,445 | 1,061 | 9,232 |  |  | 10,651 | 11,445 | 1,061 |
| 6/15/2010 | TRUE | True | FALSE | 3.46 | 7.98 | 6.22 | 56\% | 43\% | 78\% |  | 1.28 | 6.1 | 6.1 | 215.00 | 183.00 | 0.85 |  | 11,153 | 9,493 |  |  | 10,701 | 10,957 | 1,061 | 11,153 | 9,493 |  | 10,701 | 10,957 | 1,061 |
| 6/16/2010 | TRUE | TRUE | FALSE | 3.51 | 8.03 | 6.27 | 56\% | 44\% | 78\% |  | 1.28 | 6.1 | 6.1 |  |  |  |  |  |  |  |  | 10,701 | 10,957 | 1,061 |  |  |  | 10,701 | 10,957 | 1,061 |
| 6/17/2010 | TRUE | True | FALSE | 3.48 | 8.80 | 6.19 | 56\% | 40\% | 70\% |  | 1.42 | 6.1 | 6.1 |  |  |  | 20.51 |  |  | 1,059 |  | 10,701 | 10,957 | 1,060 |  |  | 1,059 | 10,701 | 10,957 | 1,060 |
| 6/18/2010 | TRUE | TRUE | FALSE | 3.48 | 9.11 | 5.42 | 64\% | 38\% | 59\% |  | 1.68 | 6.0 | 6.0 | 190.00 | 161.00 | 0.85 |  | 8,589 | 7,278 |  |  | 10,509 | 10,221 | 1,060 | 8,589 | 7,278 |  | 10,509 | 10,221 | 1,060 |
| 6/19/2010 | TRUE | True | FALSE |  |  |  |  |  |  | gMinMaxA ${ }^{\text {a }}$ |  | 6.0 | 6.0 |  |  |  |  |  |  |  |  | 10,509 | 10,221 | 1,060 |  |  |  | 10,509 | 10,221 | 1,060 |
| 6/20/2010 | TRUE | TRUE | FALSE |  |  |  |  |  |  | 'gMinMaxA |  | 6.0 | 6.0 |  |  |  |  |  |  |  |  | 10,509 | 10,221 | 1,060 |  |  |  | 10,509 | 10,221 | 1,060 |
| 6/21/2010 | TRUE | True | FALSE |  |  |  |  |  |  | 'gMinMaxA ${ }^{\text {a }}$ |  | 6.0 | 6.1 | 186.00 |  |  |  |  |  |  |  | 10,509 | 10,221 | 1,060 |  |  |  | 10,509 | 10,221 | 1,060 |
| 6/22/2010 | TRUE | TRUE | FALSE |  |  |  |  |  |  | 'gMinMaxA ${ }^{\text {a }}$ |  | 6.0 | 6.0 | 199.00 |  |  | 16.71 |  |  |  |  | 10,509 | 10,221 | 1,060 |  |  |  | 10,509 | 10,221 | 1,060 |
| 6/23/2010 | TRUE | True | FALSE |  |  | 5.88 |  |  |  | 'gMinMaxA ${ }^{\text {a }}$ | 0.00 | 6.0 | 6.0 |  |  |  |  |  |  |  |  | 10,509 | 10,221 | 1,060 |  |  |  | 10,509 | 10,221 | 1,060 |
| 6/24/2010 | true | TRUE | FALSE |  |  | 5.93 |  |  |  | 'gMinMaxA' | 0.00 | 6.0 | 5.8 |  |  |  |  |  |  |  |  | 10,509 | 10,221 | 1,060 |  |  |  | 10,509 | 10,221 | 1,060 |
| 6/25/2010 | TRUE | TRUE | FALSE | 3.37 | 9.06 | 5.90 | 57\% | 37\% | 65\% |  | 1.54 | 6.0 | 5.7 | 212.00 | 185.00 | 0.87 |  | 10,432 | 9,103 |  |  | 10,503 | 10,035 | 1,060 | 10,432 | 9,103 |  | 10,503 | 10,035 | 1,060 |
| 6/26/2010 | TRUE | True | FALSE |  |  | 5.74 |  |  |  | gMinMaxA | 0.00 | 6.0 | 5.9 |  |  |  |  |  |  |  |  | 10,503 | 10,035 | 1,060 |  |  |  | 10,503 | 10,035 | 1,060 |
| 6/27/2010 | True | true | FALSE | 3.35 | 5.93 | 5.86 | 57\% | 56\% | 99\% | inMaxAvgM | 1.01 | 6.0 | 5.9 |  |  |  |  |  |  |  |  | 10,503 | 10,035 | 1,060 |  |  |  | 10,503 | 10,035 | 1,060 |
| 6/28/2010 | TRUE | TRUE | FALSE | 3.35 | 6.20 | 6.24 | 54\% | 54\% | 101\% | AvgMax | 0.99 | 6.0 | 5.9 | 204.00 |  |  |  | 10,616 |  |  |  | 10,177 | 9,234 | 1,060 | 10,616 |  |  | 10,177 | 9,234 | 1,060 |
| 6/29/2010 | True | true | FALSE | 3.46 | 6.13 | 6.20 | 56\% | 56\% | 101\% | inMaxAvgM | 0.99 | 6.0 | 5.9 | 86.00 | 104.00 | 1.21 |  | 4,447 | 5,378 |  | TSS | 10,177 | 8,591 | 1,060 | 4,447 | 5,378 |  | 10,177 | 8,591 | 1,060 |
| 6/30/2010 | TRUE | TRUE | FALSE | 3.40 | 6.26 | 6.19 | 55\% | 54\% | 99\% | AvgMax | 1.01 | 6.0 | 5.9 |  |  |  |  |  |  |  |  | 10,177 | 8,591 | 1,060 |  |  |  | 10,177 | 8,591 | 1,060 |
| 7/1/2010 | TRUE | True | FALSE | 3.36 | 6.32 | 6.12 | 55\% | 53\% | 97\% | AvgMax | 1.03 | 6.0 | 5.9 | 172.00 |  |  | 20.12 | 8,779 |  | 1,027 |  | 10,070 | 8,591 | 1,052 | 8,779 |  | 1,027 | 10,070 | 8,591 | 1,052 |
| 7/2/2010 | TRUE | TRUE | FALSE | 3.39 | 9.40 | 6.02 | 56\% | 36\% | 64\% |  | 1.56 | 6.0 | 6.0 | 261.00 | 166.00 | 0.64 |  | 13,104 | 8,334 |  |  | 10,352 | 8,416 | 1,052 | 13,104 | 8,334 |  | 10,352 | 8,416 | 1,052 |
| 7/3/2010 | TRUE | True | FALSE | 3.31 | 8.85 | 5.54 | 60\% | 37\% | 63\% |  | 1.60 | 6.0 | 5.8 |  |  |  |  |  |  |  |  | 10,352 | 8,416 | 1,052 |  |  |  | 10,352 | 8,416 | 1,052 |
| 7/4/2010 | true | true | FALSE | 3.16 | 8.08 | 5.20 | 61\% | 39\% | 64\% |  | 1.55 | 5.9 | 5.6 |  |  |  |  |  |  |  |  | 10,395 | 8,416 | 1,054 |  |  |  | 10,395 | 8,416 | 1,054 |
| 7/5/2010 | TRUE | true | FALSE | 3.39 | 9.02 | 5.89 | 58\% | 38\% | 65\% |  | 1.53 | 5.9 | 5.7 |  |  |  |  |  |  |  |  | 10,381 | 7,917 | 1,054 |  |  |  | 10,381 | 7,917 | 1,054 |
| 7/6/2010 | true | TRUE | FALSE | 3.35 | 8.99 | 6.06 | 55\% | 37\% | 67\% |  | 1.48 | 5.9 | 5.7 | 249.00 | 178.00 | 0.71 |  | 12,585 | 8,996 |  |  | 10,565 | 8,097 | 1,054 | 12,585 | 8,996 |  | 10,565 | 8,097 | 1,054 |
| 7/7/2010 | TRUE | True | FALSE | 3.39 | 8.83 | 6.04 | 56\% | 38\% | 68\% |  | 1.46 | 5.9 | 5.8 |  |  |  |  |  |  |  |  | 10,565 | 8,097 | 1,054 |  |  |  | 10,565 | 8,097 | 1,054 |
| 7/8/2010 | true | true | FALSE | 3.42 | 8.79 | 6.18 | 55\% | 39\% | 70\% |  | 1.42 | 5.9 | 5.8 | 273.00 |  |  | 21.59 | 14,071 |  | 1,113 |  | 11,021 | 8,097 | 1,066 | 14,071 |  | 1,113 | 11,021 | 8,097 | 1,066 |
| 7/9/2010 | True | true | FALSE | 3.91 | 8.19 | 6.00 | 65\% | 48\% | 73\% |  | 1.37 | 5.9 | 5.9 | 245.00 | 201.00 | 0.82 |  | 12,260 | 10,058 |  |  | 11,221 | 8,377 | 1,066 | 12,260 | 10,058 |  | 11,221 | 8,377 | 1,066 |
| 7/10/2010 | true | true | FALSE | 3.47 | 9.28 | 5.75 | 60\% | 37\% | 62\% |  | 1.61 | 5.9 | 5.8 |  |  |  |  |  |  |  |  | 11,221 | 8,377 | 1,066 |  |  |  | 11,221 | 8,377 | 1,066 |
| 7/11/2010 | True | true | FALSE | 3.40 | 8.70 | 5.70 | 60\% | 39\% | 66\% |  | 1.53 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 11,139 | 8,377 | 1,066 |  |  |  | 11,139 | 8,377 | 1,066 |
| 7/12/2010 | TRUE | TRUE | FALSE | 3.40 | 8.80 | 6.06 | 56\% | 39\% | 69\% |  | 1.45 | 5.9 | 6.0 | 192.00 |  |  |  | 9,704 |  |  |  | 10,957 | 8,377 | 1,066 | 9,704 |  |  | 10,957 | 8,377 | 1,066 |
| 7/13/2010 | True | true | FALSE | 3.40 | 8.90 | 6.08 | 56\% | 38\% | 68\% |  | 1.46 | 5.9 | 6.0 | 127.00 | 113.00 | 0.89 |  | 6,440 | 5,730 |  |  | 10,580 | 8,046 | 1,066 | 6,440 | 5,730 |  | 10,580 | 8,046 | 1,066 |
| 7/14/2010 | TRUE | TRUE | FALSE | 3.40 | 8.90 | 6.04 | 56\% | 38\% | 68\% |  | 1.47 | 5.9 | 6.0 |  |  |  |  |  |  |  |  | 10,580 | 8,046 | 1,066 |  |  |  | 10,580 | 8,046 | 1,066 |
| 7/15/2010 | true | true | False | 3.40 | 8.70 | 6.05 | 56\% | 39\% | 70\% |  | 1.44 | 5.9 | 6.0 | 255.00 |  |  | 22.29 | 12,867 |  | 1,125 |  | 10,883 | 8,046 | 1,081 | 12,867 |  | 1,125 | 10,883 | 8,046 | 1,081 |



| 7/16/2010 | TRUE | TRUE | FALSE | 3.39 | ${ }^{9.01}$ | 5.78 | 59\% | 38\% | 64\% |  | 1.56 | 5.9 | 5.9 | 273.00 | 184.00 | 0.67 |  | 13,160 | 8,870 |  |  | 11,050 | 7,968 | 1,081 | 13,160 | 8,870 |  | 11,050 | 7,968 | 1,081 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 7/17/2010 | TRUE | true | FALSE | 3.50 | 8.30 | 5.62 | 62\% | 42\% | 68\% |  | 1.48 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 11,050 | 7,968 | 1,081 |  |  |  | 11,050 | 7,968 | 1,081 |
| 7/18/2010 | TRUE | true | FALSE | 3.10 | 8.50 | 5.60 | 55\% | 36\% | 66\% |  | 1.52 | 5.8 | 5.9 |  |  |  |  |  |  |  |  | 11,050 | 7,968 | 1,088 |  |  |  | 11,050 | 7,968 | 1,088 |
| 7/19/2010 | true | true | FALSE | 3.41 | 7.83 | 6.03 | 57\% | 44\% | 77\% |  | 1.30 | 5.9 | 5.9 | 153.00 |  |  |  | 7,694 |  |  |  | 10,976 | 8,067 | 1,088 | 7,694 |  |  | 10,976 | 8,067 | 1,088 |
| 7/20/2010 | TrUE | True | FALSE | 3.57 | 7.58 | 6.03 | 59\% | 47\% | 80\% |  | 1.26 | 5.9 | 5.9 | 199.00 | 199.00 | 1.00 |  | 10,008 | 10,008 |  |  | 10,901 | 8,310 | 1,088 | 10,008 | 10,008 |  | 10,901 | 8,310 | 1,088 |
| 7/21/2010 | true | true | FALSE | 3.50 | 8.55 | 6.10 | 57\% | 41\% | 71\% |  | 1.40 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 10,901 | 8,310 | 1,088 |  |  |  | 10,901 | 8,310 | 1,088 |
| 7/22/2010 | TRUE | True | FALSE | 3.48 | 7.11 | 5.96 | 58\% | 49\% | 84\% |  | 1.19 | 5.9 | 5.9 | 210.00 | 325.00 | 1.55 |  | 10,438 | 16,155 |  |  | 10,868 | 9,181 | 1,088 | 10,438 | 16,155 |  | 10,868 | 9,181 | 1,088 |
| 7/23/2010 | true | true | FALSE | 3.50 | 7.40 | 5.92 | 59\% | 47\% | 80\% |  | 1.25 | 5.9 | 5.9 | 219.00 |  |  | 20.71 | 10,813 |  | 1,023 |  | 10,865 | 9,181 | 1,072 | 10,785 |  | 1,023 | 10,863 | 9,181 | 1,072 |
| 7/24/2010 | TRUE | true | FALSE | 3.60 | 7.80 | 5.75 | 63\% | 46\% | 74\% |  | 1.36 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 10,865 | 9,181 | 1,072 |  |  |  | 10,863 | 9,181 | 1,072 |
| 7/25/2010 | true | true | FALSE | 3.35 | 7.59 | 5.63 | 60\% | 44\% | 74\% |  | 1.35 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 10,865 | 9,181 | 1,072 |  |  |  | 10,863 | 9,181 | 1,072 |
| 7/26/2010 | TrUE | True | FALSE | 3.39 | 8.09 | 6.07 | 56\% | 42\% | 75\% |  | 1.33 | 5.9 | 5.9 | 197.00 |  |  |  | 9,973 |  |  |  | 10,834 | 9,191 | 1,072 | 9,973 |  |  | 10,832 | 9,191 | 1,072 |
| 7/27/2010 | true | true | FALSE | 3.45 | 8.12 | 6.06 | 57\% | 42\% | 75\% |  | 1.34 | 5.9 | 5.9 | 201.00 |  |  | 21.90 | 10,159 |  | 1,107 |  | 10,792 | 9,191 | 1,079 | 10,159 |  | 1,107 | 10,790 | 9,191 | 1,079 |
| 7/28/2010 | true | true | FALSE | 3.41 | 8.51 | 6.02 | 57\% | 40\% | 71\% |  | 1.41 | 5.9 | 5.9 | 234.00 |  |  |  | 11,748 |  |  |  | 10,848 | 9,191 | 1,079 | 11,748 |  |  | 10,847 | 9,191 | 1,079 |
| 7/29/2010 | true | true | FALSE | 3.47 | 7.74 | 6.03 | 58\% | 45\% | 78\% |  | 1.28 | 5.9 | 5.9 | 233.00 |  |  |  | 11,718 |  |  |  | 10,913 | 9,191 | 1,079 | 11,718 |  |  | 10,911 | 9,191 | 1,079 |
| 7/30/2010 | true | true | FALSE | 3.45 | 6.32 | 6.01 | 57\% | 55\% | 95\% | AvgMax | 1.05 | 5.9 | 5.9 | 207.00 | 259.00 | 1.25 |  | 10,376 | 12,982 |  |  | 10,883 | 10,142 | 1,079 | 10,376 | 12,982 |  | 10,882 | 10,142 | 1,079 |
| 7/31/2010 | true | true | FALSE | 3.45 | 6.21 | 5.73 | 60\% | 56\% | 92\% | inMaxAvgM | 1.08 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 10,883 | 10,142 | 1,079 |  |  |  | 10,882 | 10,142 | 1,079 |
| 81/2010 | true | true | FALSE | 3.30 | 8.39 | 5.71 | 58\% | 39\% | 68\% |  | 1.47 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 11,007 | 10,142 | 1,092 |  |  |  | 11,005 | 10,142 | 1,092 |
| 8/2/2010 | true | true | FALSE | 3.38 | 8.79 | 6.03 | 56\% | 38\% | 69\% |  | 1.46 | 5.9 | 6.0 | 188.00 |  |  |  | 9,455 |  |  |  | 10,792 | 10,400 | 1,092 | 9,455 |  |  | 10,791 | 10,400 | 1,092 |
| 8/3/2010 | true | true | FALSE | 3.51 | 8.09 | 6.07 | 58\% | 43\% | 75\% |  | 1.33 | 5.9 | 6.0 | 235.00 | 228.00 | 0.97 |  | 11,897 | 11,542 |  |  | 10,853 | 10,543 | 1,092 | 11,897 | 11,542 |  | 10,852 | 10,543 | 1,092 |
| 8/4/2010 | true | true | FALSE | 3.43 | 8.65 | 6.07 | 57\% | 40\% | 70\% |  | 1.43 | 5.9 | 6.0 |  |  |  |  |  |  |  |  | 10,853 | 10,543 | 1,092 |  |  |  | 10,852 | 10,543 | 1,092 |
| 8/5/2010 | true | true | FALSE | 3.40 | 8.64 | 6.04 | 56\% | 39\% | 70\% |  | 1.43 | 5.9 | 6.0 | 248.00 | 280.00 | 1.13 |  | 12,493 | 14,105 |  |  | 10,940 | 10,938 | 1,092 | 12,493 | 14,105 |  | 10,938 | 10,938 | 1,092 |
| 8/6/2010 | true | true | FALSE | 3.42 | 7.74 | 6.02 | 57\% | 44\% | 78\% |  | 1.29 | 5.9 | 6.0 |  |  |  | 21.08 |  |  | 1,058 |  | 10,848 | 11,181 | 1,085 |  |  | 1,058 | 10,847 | 11,181 | 1,085 |
| 8/7/2010 | TRUE | true | FALSE | 4.09 | 8.04 | 5.82 | 70\% | 51\% | 72\% | Minavg | 1.38 | 5.9 | 6.0 |  |  |  |  |  |  |  |  | 10,848 | 11,181 | 1,085 |  |  |  | 10,847 | 11,181 | 1,085 |
| 8/8/2010 | true | true | FALSE | 3.38 | 9.52 | 5.86 | 58\% | 36\% | 62\% |  | 1.62 | 5.9 | 6.0 | 218.00 |  |  |  | 10,654 |  |  |  | 10,659 | 11,181 | 1,078 | 10,654 |  |  | 10,657 | 11,181 | 1,078 |
| 8/9/2010 | TRUE | true | FALSE | 3.30 | 8.70 | 6.21 | 53\% | 38\% | 71\% |  | 1.40 | 5.9 | 6.0 | 147.00 |  |  |  | 7,613 |  |  |  | 10,400 | 11,342 | 1,078 | 7,613 |  |  | 10,399 | 11,342 | 1,078 |
| 8/10/2010 | TRUE | True | FALSE | 3.43 | 6.65 | 6.27 | 55\% | 52\% | 94\% | AvgMax | 1.06 | 5.9 | 6.0 | 128.00 | 181.00 | 1.41 |  | 6,693 | 9,465 |  |  | 10,205 | 11,107 | 1,078 | 6,693 | 9,465 |  | 10,204 | 11,107 | 1,078 |
| 8/11/2010 | True | True | FALSE | 3.33 | 6.65 | 6.30 | 53\% | 50\% | 95\% | AvgMax | 1.06 | 6.0 | 6.0 |  |  |  |  |  |  |  |  | 10,205 | 11,107 | 1,078 |  |  |  | 10,204 | 11,107 | 1,078 |
| 8/12/2010 | true | true | FALSE | 3.33 | 6.67 | 6.32 | 53\% | 50\% | 95\% | AvgMax | 1.06 | 6.0 | 6.0 | 136.00 |  |  | 20.15 | 7,168 |  | 1,062 |  | 10,072 | 11,107 | 1,075 | 7,168 |  | 1,062 | 10,070 | 11,107 | 1,075 |
| 8/13/2010 | TRUE | true | FALSE | 3.40 | 8.20 | 6.03 | 56\% | 41\% | 74\% |  | 1.36 | 5.9 | 6.0 | 692.00 | 403.00 | 0.58 |  | 34,801 | 20,267 |  | TSS | 10,274 | 12,924 | 1,075 | 34,801 | 20,267 |  | 10,272 | 12,924 | 1,075 |
| 8/14/2010 | true | true | FALSE | 3.30 | 8.60 | 5.93 | 56\% | 38\% | 69\% |  | 1.45 | 5.9 | 6.0 |  |  |  |  |  |  |  |  | 10,274 | 12,924 | 1,075 |  |  |  | 10,272 | 12,924 | 1,075 |
| 8/15/2010 | true | true | FALSE | 3.26 | 8.59 | 6.09 | 54\% | 38\% | 71\% |  | 1.41 | 5.9 | 6.0 |  |  |  |  |  |  |  |  | 10,121 | 12,924 | 1,062 |  |  |  | 10,120 | 12,924 | 1,062 |
| 8/16/2010 | true | true | FALSE | 3.45 | 7.28 | 6.34 | 54\% | 47\% | 87\% | AvgMax | 1.15 | 6.0 | 6.1 | 168.00 |  |  |  | 8,883 |  |  |  | 9,870 | 13,503 | 1,062 | 8,883 |  |  | 9,868 | 13,503 | 1,062 |
| 8/17/2010 | TrUE | true | FALSE | 3.33 | 8.62 | 6.34 | 53\% | 39\% | 74\% |  | 1.36 | 6.0 | 6.1 | 404.00 | 200.00 | 0.50 |  | 21,362 | 10,575 |  | TSS | 9,870 | 13,137 | 1,062 | 21,362 | 10,575 |  | 9,868 | 13,137 | 1,062 |
| 8/18/2010 | true | TRUE | FALSE | 3.46 | 6.77 | 6.38 | 54\% | 51\% | 94\% | AvgMax | 1.06 | 6.0 | 6.1 |  |  |  |  |  |  |  |  | 9,870 | 13,137 | 1,062 |  |  |  | 9,868 | 13,137 | 1,062 |
| 8/19/2010 | true | true | FALSE | 3.41 | 8.18 | 6.40 | 53\% | 42\% | 78\% |  | 1.28 | 6.0 | 6.2 | 188.00 |  |  | 20.22 | 10,035 |  | 1,079 |  | 10,007 | 13,137 | 1,066 | 10,035 |  | 1,079 | 10,006 | 13,137 | 1,066 |
| 8/20/2010 | true | TRUE | FALSE | 3.42 | 9.28 | 6.42 | 53\% | 37\% | 69\% |  | 1.45 | 6.0 | 6.2 | 223.00 | 124.00 | 0.56 |  | 11,940 | 6,639 |  |  | 10,121 | 12,716 | 1,066 | 11,940 | 6,639 |  | 10,119 | 12,716 | 1,066 |
| 8/21/2010 | true | true | FALSE | 3.41 | 10.19 | 6.31 | 54\% | 33\% | 62\% |  | 1.61 | 6.0 | 6.2 |  |  |  |  |  |  |  |  | 10,121 | 12,716 | 1,066 |  |  |  | 10,119 | 12,716 | 1,066 |
| 8/22/2010 | true | TRUE | FALSE | 3.41 | 9.02 | 6.35 | 54\% | 38\% | 70\% |  | 1.42 | 6.1 | 6.3 |  |  |  |  |  |  |  |  | 10,101 | 12,225 | 1,066 |  |  |  | 10,099 | 12,225 | 1,066 |
| 8/23/2010 | True | True | FALSE | 3.35 | 6.94 | 6.45 | 52\% | 48\% | 93\% | AvgMax | 1.08 | 6.1 | 6.4 | 154.00 |  |  |  | 8,284 |  |  |  | 9,943 | 12,225 | 1,077 | 8,284 |  |  | 9,943 | 12,225 | 1,077 |
| 8/24/2010 | FALSE | FALSE | FALSE | 3.43 | 9.72 | 6.45 | 53\% | 35\% | 66\% |  | 1.51 | 6.1 | 6.4 | 171.00 |  |  |  | 9,199 |  |  |  | 9,899 | 12,225 | 1,077 | 9,199 |  |  | 9,899 | 12,225 | 1,077 |
| 8/25/2010 | FALSE | FALSE | FALSE | 3.32 | 9.84 | 6.56 | 51\% | 34\% | 67\% |  | 1.50 | 6.1 | 6.4 |  |  |  |  |  |  |  |  | 9,899 | 12,225 | 1,077 |  |  |  | 9,899 | 12,225 | 1,077 |
| 8/26/2010 | FALSE | FALSE | FALSE | 3.32 | 9.79 | 6.53 | 51\% | 34\% | 67\% |  | 1.50 | 6.2 | 6.4 | 184.00 |  |  | 21.18 | 10,021 |  | 1,153 |  | 9,902 | 12,225 | 1,092 | 10,021 |  | 1,153 | 9,902 | 12,225 | 1,092 |
| 8/27/2010 | FALSE | FALSE | FALSE | 3.52 | 6.73 | 5.08 | 69\% | 52\% | 75\% |  | 1.32 | 6.1 | 6.2 | 259.00 |  |  |  | 10,973 |  |  |  | 9,950 | 12,225 | 1,088 | 10,973 |  |  | 9,950 | 12,225 | 1,088 |
| 8/28/2010 | FALSE | FALSE | FALSE |  |  | 4.48 |  |  |  | 'gMinMaxA' | 0.00 | 6.1 | 6.2 |  |  |  |  |  |  |  |  | 9,838 | 12,225 | 1,088 |  |  |  | 9,838 | 12,225 | 1,088 |
| 8/29/2010 | FALSE | FALSE | FALSE | 3.01 | 6.30 | 4.44 | 68\% | 48\% | 70\% |  | 1.42 | 6.0 | 5.9 |  |  |  |  |  |  |  |  | 9,712 | 12,225 | 1,088 |  |  |  | 9,712 | 12,225 | 1,088 |
| 8/30/2010 | FALSE | FALSE | FALSE | 3.26 | 9.85 | 6.57 | 50\% | 33\% | 67\% |  | 1.50 | 6.1 | 5.9 | 160.00 |  |  |  | 8,767 |  |  |  | 9,605 | 12,099 | 1,088 | 8,767 |  |  | 9,605 | 12,099 | 1,088 |
| 8/31/2010 | FALSE | FALSE | FALSE | 3.36 | 8.06 | 6.53 | 51\% | 42\% | 81\% |  | 1.23 | 6.1 | 6.0 | 182.00 |  |  |  | 9,912 |  |  |  | 9,624 | 12,099 | 1,088 | 9,844 |  |  | 9,620 | 12,099 | 1,088 |
| 9/1/2010 | FALSE | FALSE | FALSE | 3.26 | 7.68 | 6.50 | 50\% | 42\% | 85\% |  | 1.18 | 6.1 | 6.0 | 190.00 |  |  |  | 10,300 |  |  |  | 9,664 | 12,099 | 1,088 | 10,300 |  |  | 9,660 | 12,099 | 1,088 |
| 9/2/2010 | FALSE | False | FALSE | 3.37 | 6.39 | 6.68 | 50\% | 53\% | 105\% | AvgMax | 0.96 | 6.1 | 5.9 | 202.00 |  |  | 20.19 | 11,254 |  | 1,125 |  | 9,770 | 12,099 | 1,096 | 11,254 |  | 1,125 | 9,766 | 12,099 | 1,096 |
| 9/3/2010 | FALSE | FALSE | FALSE | 3.42 | 9.82 | 6.53 | 52\% | 35\% | 66\% |  | 1.50 | 6.1 | 5.9 | 221.00 |  |  |  | 12,036 |  |  |  | 9,778 | 12,210 | 1,096 | 12,036 |  |  | 9,774 | 12,210 | 1,096 |
| 9/4/2010 | FALSE | FALSE | FALSE | 3.38 | 10.09 | 6.28 | 54\% | 33\% | 62\% |  | 1.61 | 6.2 | 6.1 |  |  |  |  |  |  |  |  | 9,778 | 12,210 | 1,096 |  |  |  | 9,774 | 12,210 | 1,096 |
| 9/5/2010 | FALSE | False | FALSE | 3.30 | 9.57 | 5.96 | 55\% | 34\% | 62\% |  | 1.61 | 6.2 | 6.1 |  |  |  |  |  |  |  |  | 9,608 | 11,737 | 1,096 |  |  |  | 9,604 | 11,737 | 1,096 |
| 9/6/2010 | FALSE | FALSE | FALSE | 3.16 | 9.46 | 7.93 | 40\% | 33\% | 84\% | MinAvg | 1.19 | 6.2 | 6.4 |  |  |  |  |  |  |  |  | 9,608 | 11,737 | 1,105 |  |  |  | 9,604 | 11,737 | 1,105 |
| 9/7/2010 | FALSE | FALSE | FALSE | 3.36 | 6.77 | 4.71 | 71\% | 50\% | 70\% | Minavg | 1.44 | 6.2 | 6.4 |  |  |  |  |  |  |  |  | 9,608 | 11,737 | 1,105 |  |  |  | 9,604 | 11,737 | 1,105 |
| 9/8/2010 | FALSE | FALSE | True | 3.29 | 9.35 | 7.19 | 46\% | 35\% | 77\% |  | 1.30 | 6.2 | 6.5 | 271.00 |  |  |  | 16,250 |  |  |  | 9,958 | 11,737 | 1,105 | 16,250 |  |  | 9,954 | 11,737 | 1,105 |
| 9/9/2010 | FALSE | FALSE | True | 3.34 | 9.39 | 6.89 | 48\% | 36\% | 73\% |  | 1.36 | 6.3 | 6.6 | 243.00 |  |  | 20.29 | 13,963 |  | 1,166 |  | 10,355 | 11,737 | 1,117 | 13,963 |  | 1,166 | 10,351 | 11,737 | 1,117 |
| 9/10/2010 | FALSE | False | FALSE | 3.38 | 10.01 | 6.76 | 50\% | 34\% | 68\% |  | 1.48 | 6.3 | 6.6 | 217.00 | 197.00 | 0.91 |  | 12,234 | 11,107 |  |  | 10,701 | 12,147 | 1,117 | 12,234 | 11,107 |  | 10,697 | 12,147 | 1,117 |
| 9/11/2010 | FALSE | False | FALSE | 3.33 | 9.89 | 6.36 | 52\% | 34\% | 64\% |  | 1.56 | 6.3 | 6.6 |  |  |  |  |  |  |  |  | 10,701 | 12,147 | 1,117 |  |  |  | 10,697 | 12,147 | 1,117 |
| 9/12/2010 | FALSE | FALSE | FALSE | 3.25 | 10.31 | 6.34 | 51\% | 32\% | 61\% |  | 1.63 | 6.3 | 6.6 |  |  |  |  |  |  |  |  | 10,937 | 12,147 | 1,131 |  |  |  | 10,932 | 12,147 | 1,131 |
| 9/13/2010 | FALSE | FALSE | FALSE | 3.35 | 9.96 | 6.63 | 51\% | 34\% | 67\% |  | 1.50 | 6.3 | 6.7 | 186.00 |  |  |  | 10,285 |  |  |  | 10,896 | 9,440 | 1,131 | 10,285 |  |  | 10,892 | 9,440 | 1,131 |
| 9/14/2010 | FALSE | FALSE | FALSE | 3.28 | 10.14 | 6.61 | 50\% | 32\% | 65\% |  | 1.53 | 6.3 | 6.7 |  |  |  |  |  |  |  |  | 10,896 | 9,440 | 1,131 |  |  |  | 10,892 | 9,440 | 1,131 |
| 9/15/2010 | FALSE | FALSE | FALSE | 3.37 | 9.68 | 6.58 | 51\% | 35\% | 68\% |  | 1.47 | 6.4 | 6.7 | 269.00 |  |  |  | 14,762 |  |  |  | 11,123 | 9,440 | 1,131 | 14,762 |  |  | 11,119 | 9,440 | 1,131 |
| 9/16/2010 | FALSE | FALSE | FALSE | 3.34 | 9.42 | 6.58 | 51\% | 35\% | 70\% |  | 1.43 | 6.4 | 6.6 |  |  |  | 22.74 |  |  | 1,248 |  | 11,263 | 9,440 | 1,154 |  |  | 1,24 | 11,259 | 9,440 | 1,154 |


| Date | Butte Break? | $\begin{gathered} \text { csu } \\ \text { Break? } \end{gathered}$ | Precip? |  | $\begin{gathered} \text { Max } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | $\begin{gathered} \text { Avg } \\ \text { Influent } \\ \text { Fow, mgd } \end{gathered}$ | $\underset{\text { Min } \% \text { of }}{\substack{\text { Avg }}}$ | Min \% of | $\begin{aligned} & \text { Avg \% of } \\ & \text { Max } \end{aligned}$ | $\begin{aligned} & \text { Flow } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | Diurnal Peak Factor <br> (DPF) | $\begin{aligned} & \text { 30-d Avg } \\ & \text { of Avg } \\ & \text { Filow, mgd } \end{aligned}$ | 7-d Avg of Avg Flow, mgd | Influent TSS Conc., mg/L | Influent BOD Conc., mg/L | $\underset{\substack{\text { Bod/TSS } \\ \text { Ratio }}}{ }$ | Influent NH3-N Conc., mg/L | Avg Inf TSS Load, ppd | Avg Inf BOD Load, ppd | Avg Inf NH3 Load, ppd | $\begin{aligned} & \text { Load } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | $\begin{gathered} \text { 30-d Avg } \\ \text { of TSS } \\ \text { Load, ppd } \end{gathered}$ | 30-d Avg Load, ppd | 30-d Avg of NH3-N Load, ppd | non-SN TSS Load, ppd | non-SN BOD Load, ppd | non-SN NH3 Load, ppd | 30-d Avg <br> of non-SN TSS Load, ppd | 30-d Avg of non-SN BOD Load, ppd | $\begin{aligned} & \text { 30-d Avg } \\ & \text { of non-SN } \\ & \text { NH3 } \\ & \text { Load, ppd } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 9/17/2010 | FALSE | FALSE | FALSE | 2.23 | 10.24 | 6.57 | 34\% | 22\% | 64\% | inAvgMinM | 1.56 | 6.4 | 6.6 | 224.00 | 256.00 | 1.14 |  | 12,274 | 14,027 |  |  | 11,323 | 10,591 | 1,154 | 12,274 | 14,027 |  | 11,319 | 10,591 | 1,154 |
| 9/18/2010 | FALSE | FALSE | FALSE | 2.15 | 10.03 | 6.32 | 34\% | 21\% | 63\% | inAvgMinM | 1.59 | 6.4 | 6.5 |  |  |  |  |  |  |  |  | 11,323 | 10,591 | 1,154 |  |  |  | 11,319 | 10,591 | 1,154 |
| 9/19/2010 | FALSE | FALSE | TRUE | 3.37 | 9.80 | 6.44 | 52\% | 34\% | 66\% |  | 1.52 | 6.4 | 6.5 |  |  |  |  |  |  |  |  | 11,403 | 10,591 | 1,173 |  |  |  | 11,399 | 10,591 | 1,173 |
| 9/20/2010 | FALSE | FALSE | TRUE | 3.31 | 9.72 | 6.66 | 50\% | 34\% | 69\% |  | 1.46 | 6.4 | 6.6 | 144.00 |  |  |  | 7,998 |  |  |  | 11,157 | 12,567 | 1,173 | 7,998 |  |  | 11,153 | 12,567 | 1,173 |
| 9/21/2010 | FALSE | FALSE | FALSE | 3.38 | 9.45 | 6.65 | 51\% | 36\% | 70\% |  | 1.42 | 6.4 | 6.6 | 215.00 | 185.00 | 0.86 |  | 11,924 | 10,260 |  |  | 11,202 | 11,798 | 1,173 | 11,924 | 10,260 |  | 11,198 | 11,798 | 1,173 |
| 9/22/2010 | FALSE | FALSE | FALSE | 3.36 | 9.38 | 6.62 | 51\% | 36\% | 71\% |  | 1.42 | 6.4 | 6.6 |  |  |  |  |  |  |  |  | 11,202 | 11,798 | 1,173 |  |  |  | 11,198 | 11,798 | 1,173 |
| 9/23/2010 | FALSE | FALSE | FALSE | 3.33 | 9.41 | 6.54 | 51\% | 35\% | 70\% |  | 1.44 | 6.4 | 6.6 | 214.00 |  |  | 20.22 | 11,672 |  | 1,103 |  | 11,401 | 11,798 | 1,159 | 11,672 |  | 1,103 | 11,397 | 11,798 | 1,159 |
| 9/24/2010 | FALSE | FALSE | FALSE | 3.40 | 9.20 | 6.50 | 52\% | 37\% | 71\% |  | 1.42 | 6.4 | 6.6 | 162.00 | 229.00 | 1.41 |  | 8,782 | 12,414 |  |  | 11,377 | 11,952 | 1,159 | 8,782 | 12,414 |  | 11,373 | 11,952 | 1,159 |
| 9/25/2010 | FALSE | FALSE | FALSE | 3.40 | 9.30 | 6.22 | 55\% | 37\% | 67\% |  | 1.50 | 6.4 | 6.5 |  |  |  |  |  |  |  |  | 11,377 | 11,952 | 1,159 |  |  |  | 11,373 | 11,952 | 1,159 |
| 9/26/2010 | FALSE | FALSE | FALSE | 3.31 | 8.79 | 6.21 | 53\% | 38\% | 71\% |  | 1.42 | 6.4 | 6.5 |  |  |  |  |  |  |  |  | 11,462 | 11,952 | 1,160 |  |  |  | 11,457 | 11,952 | 1,160 |
| 9/27/2010 | FALSE | FALSE | FALSE | 3.40 | 9.20 | 6.54 | 52\% | 37\% | 71\% |  | 1.41 | 6.4 | 6.5 | 192.00 |  |  |  | 10,472 |  |  |  | 11,430 | 11,952 | 1,160 | 10,339 |  |  | 11,418 | 11,952 | 1,160 |
| 9/28/2010 | FALSE | FALSE | FALSE | 3.38 | 9.57 | 6.54 | 52\% | 35\% | 68\% |  | 1.46 | 6.4 | 6.5 | 236.00 | 194.00 | 0.82 |  | 12,872 | 10,581 |  |  | 11,515 | 11,678 | 1,160 | 12,872 | 10,581 |  | 11,503 | 11,678 | 1,160 |
| 9/29/2010 | FALSE | FALSE | FALSE | 3.41 | 9.52 | 6.53 | 52\% | 36\% | 69\% |  | 1.46 | 6.5 | 6.5 |  |  |  |  |  |  |  |  | 11,515 | 11,678 | 1,160 |  |  |  | 11,503 | 11,678 | 1,160 |
| 9/30/2010 | FALSE | FALSE | FALSE | 3.35 | 9.73 | 6.69 | 50\% | 34\% | 69\% |  | 1.45 | 6.5 | 6.5 |  |  |  | 23.91 |  |  | 1,334 |  | 11,687 | 11,678 | 1,195 |  |  | 1,334 | 11,674 | 11,678 | 1,195 |
| 10/1/2010 | FALSE | FALSE | FALSE | 3.41 | 9.74 | 6.44 | 53\% | 35\% | 66\% |  | 1.51 | 6.5 | 6.5 | 263.00 |  |  |  | 14,126 |  |  |  | 11,950 | 11,678 | 1,195 | 14,126 |  |  | 11,942 | 11,678 | 1,195 |
| 10/2/2010 | FALSE | FALSE | FALSE | 3.31 | 9.77 | 6.24 | 53\% | 34\% | 64\% |  | 1.57 | 6.5 | 6.4 |  |  |  |  |  |  |  |  | 12,060 | 11,678 | 1,195 |  |  |  | 12,051 | 11,678 | 1,195 |
| 10/3/2010 | FALSE | FALSE | FALSE | 3.30 | 9.80 | 6.36 | 52\% | 34\% | 65\% |  | 1.54 | 6.5 | 6.4 |  |  |  |  |  |  |  |  | 12,118 | 11,678 | 1,213 |  |  |  | 12,108 | 11,678 | 1,213 |
| 10/4/2010 | FALSE | FALSE | FALSE | 3.30 | 9.40 | 6.78 | 49\% | 35\% | 72\% |  | 1.39 | 6.5 | 6.5 | 181.00 |  |  |  | 10,235 |  |  |  | 11,989 | 11,678 | 1,213 | 10,235 |  |  | 11,980 | 11,678 | 1,213 |
| 10/5/2010 | FALSE | FALSE | FALSE | 3.40 | 9.40 | 7.71 | 44\% | 36\% | 82\% |  | 1.22 | 6.6 | 6.7 | 225.00 |  |  |  | 14,468 |  |  |  | 12,155 | 11,678 | 1,213 | 14,468 |  |  | 12,146 | 11,678 | 1,213 |
| 10/6/2010 | FALSE | FALSE | TRUE | 3.30 | 9.30 | 6.81 | 48\% | 35\% | 73\% |  | 1.37 | 6.6 | 6.7 |  |  |  |  |  |  |  |  | 12,155 | 11,678 | 1,213 |  |  |  | 12,146 | 11,678 | 1,213 |
| 10/7/2010 | FALSE | FALSE | FALSE | 3.40 | 9.40 | 6.72 | 51\% | 36\% | 71\% |  | 1.40 | 6.6 | 6.7 | 212.00 |  |  | 17.69 | 11,881 |  | 991 |  | 12,137 | 11,678 | 1,168 | 11,881 |  | 991 | 12,129 | 11,678 | 1,168 |
| 10/8/2010 | FALSE | FALSE | FALSE | 3.30 | 9.30 | 6.65 | 50\% | 35\% | 72\% |  | 1.40 | 6.6 | 6.7 | 216.00 | 211.00 | 0.98 |  | 11,980 | 11,702 |  |  | 12,128 | 11,682 | 1,168 | 11,980 | 11,702 |  | 12,120 | 11,682 | 1,168 |
| 10/9/2010 | FALSE | FALSE | FALSE | 3.39 | 9.48 | 6.40 | 53\% | 36\% | 68\% |  | 1.48 | 6.6 | 6.7 |  |  |  |  |  |  |  |  | 11,871 | 11,682 | 1,168 |  |  |  | 11,862 | 11,682 | 1,168 |
| 10/10/2010 | FALSE | FALSE | FALSE | 3.48 | 9.37 | 5.94 | 59\% | 37\% | 63\% |  | 1.58 | 6.6 | 6.7 |  |  |  |  |  |  |  |  | 11,731 | 11,682 | 1,169 |  |  |  | 11,722 | 11,682 | 1,169 |
| 10/11/2010 | FALSE | FALSE | FALSE | 3.41 | 9.36 | 6.70 | 51\% | 36\% | 72\% |  | 1.40 | 6.6 | 6.7 | 191.00 |  |  | 25.65 | 10,673 |  | 1,433 |  | 11,627 | 11,797 | 1,222 | 10,673 |  | 1,433 | 11,618 | 11,797 | 1,222 |
| 10/12/2010 | FALSE | FALSE | FALSE | 3.44 | 9.28 | 6.69 | 51\% | 37\% | 72\% |  | 1.39 | 6.6 | 6.7 | 198.00 | 232.00 | 1.17 |  | 11,047 | 12,944 |  |  | 11,591 | 11,988 | 1,222 | 11,047 | 12,944 |  | 11,582 | 11,988 | 1,222 |
| 10/13/2010 | FALSE | FALSE | FALSE | 3.43 | 9.29 | 6.70 | 51\% | 37\% | 72\% |  | 1.39 | 6.6 | 6.6 |  |  |  |  |  |  |  |  | 11,591 | 11,988 | 1,222 |  |  |  | 11,582 | 11,988 | 1,222 |
| 10/14/2010 | FALSE | FALSE | FALSE | 3.48 | 9.40 | 6.74 | 52\% | 37\% | 72\% |  | 1.39 | 6.6 | 6.6 | 230.00 |  |  |  | 12,929 |  |  |  | 11,756 | 11,988 | 1,222 | 12,929 |  |  | 11,778 | 11,988 | 1,222 |
| 10/15/2010 | false | FALSE | FALSE | 3.41 | 9.40 | 6.66 | 51\% | 36\% | 71\% |  | 1.41 | 6.6 | 6.6 | 256.00 |  |  |  | 14,219 |  |  |  | 11,901 | 11,988 | 1,222 | 14,219 |  |  | 11,893 | 11,988 | 1,222 |
| 10/16/2010 | FALSE | FALSE | FALSE | 3.34 | 9.97 | 6.43 | 52\% | 34\% | 64\% |  | 1.55 | 6.6 | 6.5 |  |  |  |  |  |  |  |  | 11,722 | 11,988 | 1,222 |  |  |  | 11,714 | 11,988 | 1,222 |
| 10/17/2010 | FALSE | FALSE | TRUE | 3.39 | 10.56 | 6.66 | 51\% | 32\% | 63\% |  | 1.59 | 6.6 | 6.6 |  |  |  |  |  |  |  |  | 11,722 | 11,988 | 1,215 |  |  |  | 11,714 | 11,988 | 1,215 |
| 10/18/2010 | FALSE | FALSE | FALSE | 3.40 | 9.86 | 6.85 | 50\% | 34\% | 69\% |  | 1.44 | 6.6 | 6.7 | 219.00 |  |  |  | 12,511 |  |  |  | 11,737 | 11,580 | 1,215 | 12,511 |  |  | 11,729 | 11,580 | 1,215 |
| 10/19/2010 | FALSE | FALSE | FALSE | 3.35 | 10.37 | 6.76 | 50\% | 32\% | 65\% |  | 1.53 | 6.6 | 6.7 | 246.00 | 230.00 | 0.93 |  | 13,869 | 12,967 |  |  | 11,862 | 11,812 | 1,215 | 13,869 | 12,967 |  | 11,854 | 11,812 | 1,215 |
| 10/20/2010 | FALSE | FALSE | FALSE | 3.37 | 9.83 | 6.74 | 50\% | 34\% | 69\% |  | 1.46 | 6.6 | 6.7 |  |  |  |  |  |  |  |  | 11,862 | 11,812 | 1,215 |  |  |  | 11,854 | 11,812 | 1,215 |
| 10/21/2010 | FALSE | FALSE | FALSE | 3.39 | 9.98 | 7.30 | 46\% | 34\% | 73\% |  | 1.37 | 6.6 | 6.8 | 261.00 |  |  | 23.63 | 15,890 |  | 1,439 |  | 12,327 | 11,812 | 1,260 | 15,890 |  | 1,439 | 12,319 | 11,812 | 1,260 |
| 10/22/2010 | FALSE | FALSE | TRUE | 3.41 | 9.97 | 6.64 | 51\% | 34\% | 67\% |  | 1.50 | 6.6 | 6.8 | 245.00 | 225.00 | 0.92 |  | 13,568 | 12,460 |  |  | 12,423 | 12,178 | 1,260 | 13,568 | 12,460 |  | 12,415 | 12,178 | 1,260 |
| 10/23/2010 | FALSE | FALSE | TRUE | 3.50 | 11.07 | 6.91 | 51\% | 32\% | 62\% |  | 1.60 | 6.6 | 6.8 |  |  |  |  |  |  |  |  | 12,423 | 12,178 | 1,260 |  |  |  | 12,415 | 12,178 | 1,260 |
| 10/24/2010 | FALSE | FALSE | TRUE | 3.51 | 12.87 | 8.39 | 42\% | 27\% | 65\% | MinAvg | 1.53 | 6.6 | 6.8 |  |  |  |  |  |  |  |  | 12,470 | 12,178 | 1,299 |  |  |  | 12,462 | 12,178 | 1,299 |
| 10/25/2010 | FALSE | FALSE | FALSE | 3.66 | 11.32 | 7.71 | 47\% | 32\% | 68\% |  | 1.47 | 6.7 | 7.0 |  |  |  |  |  |  |  |  | 12,716 | 12,131 | 1,299 |  |  |  | 12,707 | 12,131 | 1,299 |
| 10/26/2010 | FALSE | FALSE | FALSE | 3.54 | 10.45 | 7.26 | 49\% | 34\% | 69\% |  | 1.44 | 6.7 | 7.0 | 199.00 | 201.00 | 1.01 |  | 12,049 | 12,170 |  |  | 12,674 | 12,138 | 1,299 | 12,049 | 12,170 |  | 12,666 | 12,138 | 1,299 |
| 10/27/2010 | FALSE | FALSE | TRUE | 3.44 | 10.69 | 7.41 | 46\% | 32\% | 69\% |  | 1.44 | 6.8 | 7.1 |  |  |  |  |  |  |  |  | 12,674 | 12,138 | 1,299 |  |  |  | 12,666 | 12,138 | 1,299 |
| 10/28/2010 | FALSE | FALSE | FALSE | 3.44 | 10.23 | 7.01 | 49\% | 34\% | 69\% |  | 1.46 | 6.8 | 7.2 | 242.00 |  |  | 26.57 | 14,148 |  | 1,553 |  | 12,904 | 12,138 | 1,350 | 14,148 |  | 1,553 | 12,904 | 12,138 | 1,350 |
| 10/29/2010 | FALSE | FALSE | TRUE | 3.58 | 10.23 | 7.21 | 50\% | 35\% | 70\% |  | 1.42 | 6.8 | 7.2 | 177.00 |  |  |  | 10,643 |  |  |  | 12,765 | 12,449 | 1,350 | 10,643 |  |  | 12,765 | 12,449 | 1,350 |
| 10/30/2010 | FALSE | FALSE | TRUE | 3.64 | 10.33 | 7.22 | 50\% | 35\% | 70\% |  | 1.43 | 6.8 | 7.2 |  |  |  |  |  |  |  |  | 12,765 | 12,449 | 1,350 |  |  |  | 12,765 | 12,449 | 1,350 |
| 10/31/2010 | FALSE | FALSE | FALSE | 3.43 | 10.97 | 6.84 | 50\% | 31\% | 62\% |  | 1.60 | 6.8 | 7.2 |  |  |  |  |  |  |  |  | 12,765 | 12,449 | 1,354 |  |  |  | 12,765 | 12,449 | 1,354 |
| 11/1/2010 | FALSE | FALSE | FALSE | 3.40 | 9.99 | 6.90 | 49\% | 34\% | 69\% |  | 1.45 | 6.8 | 7.2 | 138.00 |  |  |  | 7,941 |  |  |  | 12,378 | 12,449 | 1,354 | 7,941 |  |  | 12,378 | 12,449 | 1,354 |
| 11/2/2010 | FALSE | FALSE | FALSE | 3.38 | 9.95 | 6.85 | 49\% | 34\% | 69\% |  | 1.45 | 6.9 | 7.1 | 238.00 | 200.00 | 0.84 |  | 13,597 | 11,426 |  |  | 12,450 | 12,278 | 1,354 | 13,597 | 11,426 |  | 12,450 | 12,278 | 1,354 |
| 11/3/2010 | FALSE | FALSE | FALSE | 3.44 | 9.81 | 6.80 | 51\% | 35\% | 69\% |  | 1.44 | 6.9 | 7.0 |  |  |  |  |  |  |  |  | 12,450 | 12,278 | 1,354 |  |  |  | 12,450 | 12,278 | 1,354 |
| 11/4/2010 | FALSE | FALSE | FALSE | 3.42 | 10.08 | 6.77 | 51\% | 34\% | 67\% |  | 1.49 | 6.9 | 7.0 | 224.00 |  |  | 25.23 | 12,647 |  | 1,425 |  | 12,592 | 12,278 | 1,368 | 12,647 |  | 1,425 | 12,592 | 12,278 | 1,368 |
| 11/5/2010 | FALSE | FALSE | FALSE | 3.40 | 9.80 | 6.67 | 51\% | 35\% | 68\% |  | 1.47 | 6.8 | 6.9 | 236.00 | 208.00 | 0.88 |  | 13,128 | 11,571 |  |  | 12,513 | 12,177 | 1,368 | 13,128 | 11,571 |  | 12,513 | 12,177 | 1,368 |
| 11/6/2010 | FALSE | FALSE | FALSE | 3.40 | 9.80 | 7.73 | 44\% | 35\% | 79\% |  | 1.27 | 6.9 | 7.0 |  |  |  |  |  |  |  |  | 12,513 | 12,177 | 1,368 |  |  |  | 12,513 | 12,177 | 1,368 |
| 11/7/2010 | FALSE | FALSE | TRUE | 3.58 | 10.83 | 7.54 | 47\% | 33\% | 70\% |  | 1.44 | 6.9 | 7.0 |  |  |  |  |  |  |  |  | 12,552 | 12,177 | 1,462 |  |  |  | 12,552 | 12,177 | 1,462 |
| 11/8/2010 | FALSE | FALSE | ${ }_{\text {TRUE }}$ | 3.49 | 11.37 | 7.41 | 47\% | 31\% | 65\% |  | 1.53 | 6.9 | 7.1 | 209.00 |  |  | 20.30 | 12,916 |  | 1,255 |  | 12,611 | 12,256 | 1,421 | 12,916 |  | 1,255 | 12,611 | 12,256 | 1,421 |
| 11/9/2010 | FALSE | FALSE | TRUE | 3.49 | 11.03 | 7.18 | 49\% | 32\% | 65\% |  | 1.54 | 6.9 | 7.1 | 213.00 | 177.00 | 0.83 |  | 12,755 | 10,599 |  |  | 12,619 | 12,020 | 1,421 | 12,755 | 10,599 |  | 12,619 | 12,020 | 1,421 |
| 11/10/2010 | FALSE | FALSE | TRUE | 3.43 | 10.44 | 6.80 | 50\% | 33\% | 65\% |  | 1.54 | 7.0 | 7.1 |  |  |  |  |  |  |  |  | 12,619 | 12,020 | 1,421 |  |  |  | 12,619 | 12,020 | 1,421 |
| 11/11/2010 | FALSE | FALSE | FALSE | 3.31 | 10.10 | 6.81 | 49\% | 33\% | 67\% |  | 1.48 | 7.0 | 7.1 |  |  |  |  |  |  |  |  | 12,741 | 12,020 | 1,418 |  |  |  | 12,741 | 12,020 | 1,418 |
| 11/12/2010 | FALSE | FALSE | FALSE | 3.41 | 6.39 | 6.57 | 52\% | 53\% | 103\% | AveMax | 0.97 | 7.0 | 7.2 | 224.00 |  |  |  | 12,274 |  |  |  | 12,818 | 11,865 | 1,418 | 12,274 |  |  | 12,818 | 11,865 | 1,418 |
| 11/13/2010 | FALSE | FALSE | FALSE | 3.47 | 10.34 | 6.37 | 54\% | 34\% | 62\% |  | 1.62 | 7.0 | 7.1 |  |  |  |  |  |  |  |  | 12,818 | 11,865 | 1,418 |  |  |  | 12,818 | 11,865 | 1,418 |
| 11/14/2010 | FALSE | FALSE | FALSE | 3.31 | 10.38 | 6.46 | 51\% | 32\% | 62\% |  | 1.61 | 7.0 | 6.9 |  |  |  |  |  |  |  |  | 12,810 | 11,865 | 1,418 |  |  |  | 12,810 | 11,865 | 1,418 |
| 11/15/2010 | FALSE | FALSE | FALSE | 3.37 | 10.16 | 6.49 | 52\% | 33\% | 64\% |  | 1.57 | 7.0 | 6.8 | 201.00 |  |  |  | 10,879 |  |  |  | 12,588 | 11,865 | 1,418 | 10,879 |  |  | 12,588 | 11,865 | 1,418 |
| 11/16/2010 | FALSE | FALSE | FALSE | 3.40 | 9.40 | 6.48 | 52\% | 36\% | 69\% |  | 1.45 | 7.0 | 6.7 |  |  |  |  |  |  |  |  | 12,588 | 11,865 | 1,418 |  |  |  | 12,588 | 11,865 | 1,418 |
| 11/17/2010 | FALSE | FALSE | FALSE | 3.40 | 9.40 | 6.56 | 52\% | 36\% | 70\% |  | 1.43 | 7.0 | ${ }_{6}^{6.6}$ | 239.00 | 221.00 | 0.92 |  | 13,076 | 12,091 |  |  | 12,618 | 11,898 | 1,418 | 13,076 | 12,091 |  | 12,618 | 11, 1198 |  |
| 11/18/2010 | FALSE | FALSE | FALSE | 3.40 | 9.70 | 6.60 | 52\% | 35\% | 68\% |  | 1.47 | 6.9 | 6.5 | 234.00 |  |  |  | 12,880 |  |  |  | 12,641 | 11,898 | 1,418 | 11,615 |  |  | 12,562 | 11,898 | 1,418 |


| Date | $\begin{aligned} & \text { Butte } \\ & \text { Break? } \end{aligned}$ | $\begin{gathered} \text { csu } \\ \text { Break? } \end{gathered}$ | Precip? |  | $\begin{gathered} \text { Max } \\ \text { Influent } \\ \text { Flow, } \text { mgd } \end{gathered}$ | $\begin{gathered} \text { Avg } \\ \text { Influent } \\ \text { Flow, } \mathrm{mgd} \end{gathered}$ | $\begin{aligned} & \text { Min \% of } \\ & \text { Avg } \end{aligned}$ | Min \% of | $\begin{aligned} & \text { Avg \% of } \\ & \text { Max } \end{aligned}$ | $\begin{aligned} & \text { Flow } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | Diurnal Peak Factor (DPF) | $\begin{aligned} & 30-\mathrm{d} \text { Avg } \\ & \text { of Avg } \\ & \text { Flow, mgd } \end{aligned}$ | 7-d Avg of Avg Flow, mgd | Influent TSS Conc., mg/L | Influent BOD Conc. mg/L | BOD/TSS | Influent NH3-N Conc., mg/L | Avg Inf TSS Load, ppd | Avg Inf BOD Load, ppd | Avg Inf NH3 Load, ppd | $\begin{aligned} & \text { Load } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | 30-d Avg of TSS Load, ppd | 30-d Avg of BOD Load, ppd | 30-d Avg of NH3-N Load, ppd | non-SN TSS Load, ppd | $\begin{gathered} \text { non-SN } \\ \text { BOD Load, } \\ \text { ppd } \end{gathered}$ | non-SN NH3 Load, ppd | 30-d Avg <br> of non-SN TSS Load, ppd | 30-d Avg <br> of non-SN BOD Load, ppd | $\begin{aligned} & \text { 30-d Avg } \\ & \text { of non-SN } \\ & \text { NH3 } \\ & \text { Load, ppd } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 11/19/2010 | FALSE | True | TRUE | 3.42 | 10.12 | 6.52 | 52\% | 34\% | 64\% |  | 1.55 | 6.9 | 6.5 | 212.00 |  |  |  | 11,528 |  |  |  | 12,495 | 11,719 | 1,418 | 11,528 |  |  | 12,416 | 11,719 | 1,418 |
| 11/20/2010 | FALSE | true | True | 3.33 | 11.03 | 7.22 | 46\% | 30\% | 65\% |  | 1.53 | 7.0 | 6.6 |  |  |  |  |  |  |  |  | 12,495 | 11,719 | 1,418 |  |  |  | 12,416 | 11,719 | 1,418 |
| 11/21/2010 | FALSE | true | FALSE | 3.65 | 10.92 | 7.00 | 52\% | 33\% | 64\% |  | 1.56 | 6.9 | 6.7 |  |  |  |  |  |  |  |  | 12,269 | 11,719 | 1,411 |  |  |  | 12,184 | 11,719 | 1,411 |
| 11/22/2010 | FALSE | true | false | 3.67 | 10.06 | 6.74 | 54\% | 36\% | 67\% |  | 1.49 | 6.9 | 6.7 | 197.00 |  |  | 19.16 | 11,074 |  | 1,077 |  | 12,102 | 11,571 | 1,327 | 11,074 |  | 1,077 | 12,018 | 11,571 | 1,327 |
| 11/23/2010 | FALSE | true | FALSE | 3.39 | 9.77 | 6.57 | 52\% | 35\% | 67\% |  | 1.49 | 6.9 | 6.7 | 198.00 |  |  |  | 10,849 |  |  |  | 12,024 | 11,571 | 1,327 | 10,849 |  |  | 11,945 | 11,571 | 1,327 |
| 11/24/2010 | TRUE | true | FALSE | 3.45 | 9.79 | 6.46 | 53\% | 35\% | 66\% |  | 1.52 | 6.9 | 6.7 | 200.00 | 211.00 | 1.06 |  | 10,775 | 11,368 |  |  | 11,951 | 11,537 | 1,327 | 10,775 | 11,368 |  | 11,876 | 11,537 | 1,327 |
| 11/25/2010 | TRUE | true | FALSE | 3.34 | 9.95 | 5.68 | 59\% | 34\% | 57\% | AvgMax | 1.75 | 6.9 | 6.7 |  |  |  |  |  |  |  |  | 11,951 | 11,537 | 1,327 |  |  |  | 11,876 | 11,537 | 1,327 |
| 11/26/2010 | TRUE | true | false | 3.34 | 9.13 | 5.87 | 57\% | 37\% | 64\% |  | 1.56 | 6.8 | 6.6 |  |  |  |  |  |  |  |  | 11,944 | 11,411 | 1,327 |  |  |  | 11,865 | 11,411 | 1,327 |
| 11/27/2010 | TRUE | true | True | 3.53 | 10.60 | 6.65 | 53\% | 33\% | 63\% |  | 1.59 | 6.8 | 6.6 |  |  |  |  |  |  |  |  | 11,944 | 11,411 | 1,327 |  |  |  | 11,865 | 11,411 | 1,327 |
| 11/28/2010 | TRUE | true | true | 3.43 | 10.50 | 6.75 | 51\% | 33\% | 64\% |  | 1.56 | 6.8 | 6.6 |  |  |  |  |  |  |  |  | 11,798 | 11,411 | 1,252 |  |  |  | 11,713 | 11,411 | 1,252 |
| 11/29/2010 | TRUE | true | FALSE | 3.44 | 9.83 | 6.85 | 50\% | 35\% | 70\% |  | 1.44 | 6.8 | 6.6 | 160.00 | 143.00 | 0.89 |  | 9,141 | 8,169 |  |  | 11,697 | 10,871 | 1,252 | 9,141 | 8,169 |  | 11,613 | 10,871 | 1,252 |
| 11/30/2010 | FALSE | FALSE | false | 3.53 | 10.24 | 6.89 | 51\% | 34\% | 67\% |  | 1.49 | 6.8 | 6.6 | 240.00 | 195.00 | 0.81 |  | 13,791 | 11,205 |  |  | 11,828 | 10,918 | 1,252 | 13,791 | 11,205 |  | 11,749 | 10,918 | 1,252 |
| 12/1/2010 | FALSE | FALSE | FALSE | 3.39 | 9.90 | 6.75 | 50\% | 34\% | 68\% |  | 1.47 | 6.8 | 6.6 |  |  |  |  |  |  |  |  | 11,828 | 10,918 | 1,252 |  |  |  | 11,749 | 10,918 | 1,252 |
| 12/2/2010 | FALSE | FALSE | True | 3.42 | 9.80 | 6.89 | 50\% | 35\% | 70\% |  | 1.42 | 6.8 | 6.7 | 267.00 |  |  | 26.30 | 15,343 |  | 1,511 |  | 12,291 | 10,918 | 1,317 | 15,343 |  | 1,511 | 12,212 | 10,918 | 1,317 |
| 12/3/2010 | FALSE | FALSE | True | 3.47 | 10.61 | 7.35 | 47\% | 33\% | 69\% |  | 1.44 | 6.8 | 6.8 | 264.00 | 200.00 | 0.76 |  | 16,183 | 12,260 |  |  | 12,452 | 11,038 | 1,317 | 16,183 | 12,260 |  | 12,373 | 11,038 | 1,317 |
| 12/4/2010 | FALSE | FALSE | true | 3.60 | 10.98 | 7.17 | 50\% | 33\% | 65\% |  | 1.53 | 6.8 | 6.9 |  |  |  |  |  |  |  |  | 12,452 | 11,038 | 1,317 |  |  |  | 12,373 | 11,038 | 1,317 |
| 12/5/2010 | FALSE | FALSE | True | 3.75 | 12.64 | 8.84 | 42\% | 30\% | 70\% |  | 1.43 | 6.9 | 7.2 |  |  |  |  |  |  |  |  | 12,439 | 11,038 | 1,281 |  |  |  | 12,355 | 11,038 | 1,281 |
| 12/6/2010 | FALSE | FALSE | true | 2.76 | 13.13 | 9.34 | 30\% | 21\% | 71\% | inAvgMinM | 1.41 | 6.9 | 7.2 |  |  |  |  |  |  |  |  | 12,390 | 10,949 | 1,281 |  |  |  | 12,300 | 10,949 | 1,281 |
| 12/7/2010 | FALSE | FALSE | FALSE | 4.12 | 11.76 | 7.90 | 52\% | 35\% | 67\% |  | 1.49 | 6.9 | 7.4 | 191.00 | 170.00 | 0.89 | 21.53 | 12,584 | 11,201 | 1,419 |  | 12,403 | 10,985 | 1,315 | 12,584 | 11,201 | 1,419 | 12,319 | 10,985 | 1,315 |
| 12/8/2010 | FALSE | FALSE | true | 4.04 | 11.60 | 8.27 | 49\% | 35\% | 71\% |  | 1.40 | 6.9 | 7.6 |  |  |  |  |  |  |  |  | 12,403 | 10,985 | 1,315 |  |  |  | 12,319 | 10,985 | 1,315 |
| 12/9/2010 | FALSE | FALSE | True | 3.97 | 11.84 | 8.10 | 49\% | 34\% | 68\% |  | 1.46 | 6.9 | 7.8 | 198.00 |  |  |  | 13,376 |  |  |  | 12,434 | 10,985 | 1,336 | 13,376 |  |  | 12,349 | 10,985 | 1,336 |
| 12/10/2010 | FALSE | FALSE | FALSE | 3.79 | 11.13 | 7.73 | 49\% | 34\% | 69\% |  | 1.44 | 7.0 | 7.9 | 164.00 | 196.00 | 1.20 |  | 10,573 | 12,636 |  |  | 12,288 | 11,276 | 1,336 | 10,573 | 12,636 |  | 12,204 | 11,276 | 1,336 |
| 12/11/2010 | FALSE | FALSE | FALSE | 3.70 | 11.49 | 7.34 | 50\% | 32\% | 64\% |  | 1.57 | 7.0 | 7.9 |  |  |  |  |  |  |  |  | 12,288 | 11,276 | 1,336 |  |  |  | 12,204 | 11,276 | 1,336 |
| 12/12/2010 | FALSE | FALSE | FALSE | 3.55 | 11.13 | 7.19 | 49\% | 32\% | 65\% |  | 1.55 | 7.0 | 7.9 |  |  |  |  |  |  |  |  | 12,288 | 11,276 | 1,336 |  |  |  | 12,204 | 11,276 | 1,336 |
| 12/13/2010 | FALSE | FALSE | TRUE | 3.59 | 10.34 | 7.19 | 50\% | 35\% | 70\% |  | 1.44 | 7.0 | 7.7 | 139.00 |  |  |  | 8,335 |  |  |  | 12,026 | 11,276 | 1,336 | 8,335 |  |  | 11,941 | 11,276 | 1,336 |
| 12/14/2010 | FALSE | FALSE | true | 3.71 | 10.68 | 7.54 | 49\% | 35\% | 71\% |  | 1.42 | 7.0 | 7.7 | 186.00 | 206.00 | 1.11 |  | 11,996 | 12,954 |  |  | 12,005 | 11,485 | 1,336 | 11,696 | 12,954 |  | 11,926 | 11,485 | 1,336 |
| 12/15/2010 | FALSE | FALSE | false | 3.58 | 10.68 | 7.40 | 48\% | 34\% | 69\% |  | 1.44 | 7.1 | 7.6 |  |  |  |  |  |  |  |  | 12,005 | 11,485 | 1,336 |  |  |  | 11,926 | 11,485 | 1,336 |
| 12/16/2010 | FALSE | FALSE | false | 3.54 | 10.34 | 7.23 | 49\% | 34\% | 70\% |  | 1.43 | 7.1 | 7.5 |  |  |  | 24.16 |  |  | 1,457 |  | 12,080 | 11,485 | 1,366 |  |  | 1,457 | 11,996 | 11,485 | 1,366 |
| 12/17/2010 | TRUE | True | TRUE | 3.51 | 10.50 | 7.49 | 47\% | 33\% | 71\% |  | 1.40 | 7.1 | 7.4 | 211.00 |  |  |  | 13,180 |  |  |  | 12,149 | 11,485 | 1,366 | 13,180 |  |  | 12,070 | 11,485 | 1,366 |
| 12/18/2010 | TRUE | TRUE | TRUE | 3.92 | 12.33 | 7.92 | 49\% | 32\% | 64\% |  | 1.56 | 7.2 | 7.4 |  |  |  |  |  |  |  |  | 12,087 | 11,399 | 1,366 |  |  |  | 12,003 | 11,399 | 1,366 |
| 12/19/2010 | TRUE | TRUE | TRUE | 4.05 | 13.04 | 8.33 | 49\% | 31\% | 64\% |  | 1.57 | 7.2 | 7.5 |  |  |  |  |  |  |  |  | 12,031 | 11,399 | 1,366 |  |  |  | 12,031 | 11,399 | 1,366 |
| 12/20/2010 | true | true | true | 6.39 | 10.70 | 8.30 | 77\% | 60\% | 78\% | inAvgMinM | 1.29 | 7.3 | 7.6 | 150.00 |  |  |  | 10,383 |  |  |  | 11,949 | 11,399 | 1,366 | 10,383 |  |  | 11,949 | 11,399 | 1,366 |
| 12/21/2010 | TRUE | TRUE | TRUE | 6.30 | 11.65 | 8.95 | 70\% | 54\% | 77\% | MinAvg | 1.30 | 7.3 | 7.7 | 151.00 |  |  | 9.85 | 11,271 |  | 735 |  | 11,904 | 11,399 | 1,240 | 11,271 |  | 735 | 11,904 | 11,399 | 1,240 |
| 12/22/2010 | true | true | true | 6.39 | 14.34 | 9.90 | 65\% | 45\% | 69\% |  | 1.45 | 7.4 | 8.0 | 145.00 | 143.00 | 0.99 |  | 11,972 | 11,807 |  |  | 11,908 | 11,450 | 1,240 | 11,972 | 11,807 |  | 11,908 | 11,450 | 1,240 |
| 12/23/2010 | TRUE | true | True | 5.87 | 13.90 | 8.49 | 69\% | 42\% | 61\% |  | 1.64 | 7.4 | 8.2 |  |  |  |  |  |  |  |  | 11,964 | 11,450 | 1,280 |  |  |  | 11,964 | 11,450 | 1,280 |
| 12/24/2010 | True | True | FALSE | 3.96 | 8.59 | 7.62 | 52\% | 46\% | 89\% | AvgMax | 1.13 | 7.5 | 8.4 |  |  |  |  |  |  |  |  | 12,043 | 11,450 | 1,280 |  |  |  | 12,043 | 11,450 | 1,280 |
| 12/25/2010 | TRUE | true | True | 3.75 | 8.74 | 8.33 | 45\% | 43\% | 95\% | AvgMax | 1.05 | 7.5 | 8.7 |  |  |  |  |  |  |  |  | 12,141 | 11,462 | 1,280 |  |  |  | 12,141 | 11,462 | 1,280 |
| 12/26/2010 | TRUE | true | false | 4.40 | 12.50 | 8.80 | 50\% | 35\% | 70\% |  | 1.42 | 7.6 | 8.9 |  |  |  |  |  |  |  |  | 12,141 | 11,462 | 1,280 |  |  |  | 12,141 | 11,462 | 1,280 |
| 12/27/2010 | TRUE | true | FALSE | 4.90 | 8.80 | 8.46 | 58\% | 56\% | 96\% | inMaxavgM | 1.04 | 7.6 | 9.1 | 139.00 |  |  |  | 9,807 |  |  |  | 11,974 | 11,462 | 1,280 | 9,383 |  |  | 11,944 | 11,462 | 1,280 |
| 12/28/2010 | True | true | TRUE | 3.90 | 15.30 | 9.69 | 40\% | 25\% | 63\% | MinAvg | 1.58 | 7.7 | 9.1 | 152.00 |  |  |  | 12,284 |  |  |  | 11,995 | 11,462 | 1,280 | 12,284 |  |  | 11,966 | 11,462 | 1,280 |
| 12/29/2010 | TRUE | true | false | 6.70 | 14.10 | 10.07 | 67\% | 48\% | 71\% |  | 1.40 | 7.8 | 9.3 | 154.00 | 143.00 | 0.93 |  | 12,934 | 12,010 |  |  | 12,053 | 11,530 | 1,280 | 12,934 | 12,010 |  | 12,027 | 11,530 | 1,280 |
| 12/30/2010 | True | true | FALSE | 4.90 | 12.50 | 8.78 | 56\% | 39\% | 70\% |  | 1.42 | 7.9 | 9.0 | 150.00 |  |  | 10.68 | 10,984 |  | 782 |  | 12,168 | 12,010 | 1,181 | 10,984 |  | 782 | 12,142 | 12,010 | 1,181 |
| 12/31/2010 | TRUE | true | false | 4.91 | 12.58 | 7.82 | 63\% | 39\% | 62\% |  | 1.61 | 7.9 | 8.9 |  |  |  |  |  |  |  |  | 12,060 | 12,144 | 1,181 |  |  |  | 12,032 | 12,144 | 1,181 |
| 1/1/2011 | TRUE | true | false | 4.41 | 12.15 | 7.98 | 55\% | 36\% | 66\% |  | 1.52 | 8.0 | 8.7 |  |  |  |  |  |  |  |  | 12,060 | 12,144 | 1,181 |  |  |  | 12,032 | 12,144 | 1,181 |
| 1/2/2011 | TRUE | true | FALSE | 4.40 | 13.00 | 8.87 | 50\% | 34\% | 68\% |  | 1.47 | 8.1 | 8.7 |  |  |  |  |  |  |  |  | 11,826 | 12,144 | 1,098 |  |  |  | 11,796 | 12,144 | 1,098 |
| 1/3/2011 | TRUE | true | FALSE | 4.49 | 11.68 | 8.47 | 53\% | 38\% | 73\% |  | 1.38 | 8.1 | 8.7 | 168.00 |  |  |  | 11,867 |  |  |  | 11,518 | 12,121 | 1,098 | 11,867 |  |  | 11,487 | 12,121 | 1,098 |
| 1/4/2011 | TRUE | true | False | 4.45 | 10.91 | 8.04 | 55\% | 41\% | 74\% |  | 1.36 | 8.2 | 8.6 | 175.00 |  |  | 17.18 | 11,734 |  | 1,152 |  | 11,532 | 12,121 | 1,109 | 11,734 |  | 1,152 | 11,504 | 12,121 | 1,109 |
| 1/5/2011 | TRUE | true | FALSE | 3.65 | 10.98 | 7.64 | 48\% | 33\% | 70\% |  | 1.44 | 8.1 | 8.5 | 185.00 |  |  |  | 11,788 |  |  |  | 11,548 | 12,121 | 1,109 | 11,788 |  |  | 11,522 | 12,121 | 1,109 |
| 1/6/2011 | TRUE | true | TRUE | 3.92 | 10.86 | 7.56 | 52\% | 36\% | 70\% |  | 1.44 | 8.1 | 8.1 | 174.00 | 200.00 | 1.15 |  | 10,971 | 12,610 |  |  | 11,514 | 12,203 | 1,109 | 10,971 | 12,610 |  | 11,489 | 12,203 | 1,109 |
| 1/7/2011 | TRUE | true | true | 3.80 | 10.70 | 7.30 | 52\% | 36\% | 68\% |  | 1.47 | 8.1 | 8.0 | 162.00 |  |  |  | 9,863 |  |  |  | 11,354 | 12,403 | 1,032 | 9,863 |  |  | 11,329 | 12,403 | 1,032 |
| 1/8/2011 | TRUE | true | True | 3.70 | 11.40 | 7.10 | 52\% | 32\% | 62\% |  | 1.61 | 8.0 | 7.9 |  |  |  |  |  |  |  |  | 11,354 | 12,403 | 1,032 |  |  |  | 11,329 | 12,403 | 1,032 |
| 1/9/2011 | TRUE | true | FALSE | 3.51 | 10.92 | 7.07 | 50\% | 32\% | 65\% |  | 1.54 | 8.0 | 7.8 |  |  |  |  |  |  |  |  | 11,228 | 12,403 | 1,032 |  |  |  | 11,201 | 12,403 | 1,032 |
| 1/10/2011 | TRUE | true | FALSE | 3.55 | 10.21 | 7.07 | 50\% | 35\% | 69\% |  | 1.44 | 7.9 | 7.5 | 225.00 |  |  |  | 13,267 |  |  |  | 11,396 | 12,345 | 1,032 | 13,267 |  |  | 11,370 | 12,345 | 1,032 |
| 1/11/2011 | TRUE | true | True | 3.65 | 10.23 | 7.02 | 52\% | 36\% | 69\% |  | 1.46 | 7.9 | 7.4 |  |  |  |  |  |  |  |  | 11,396 | 12,345 | 1,032 |  |  |  | 11,370 | 12,345 | 1,032 |
| 1/12/2011 | TRUE | true | FALSE | 3.90 | 10.10 | 6.99 | 56\% | 39\% | 69\% |  | 1.44 | 7.9 | 7.2 | 213.00 |  |  |  | 12,417 |  |  |  | 11,456 | 12,345 | 1,032 | 12,417 |  |  | 11,431 | 12,345 | 1,032 |
| 1/13/2011 | TRUE | true | true | 3.87 | 10.97 | 7.60 | 51\% | 35\% | 69\% |  | 1.44 | 7.9 | 7.2 | 209.00 | 268.00 | 1.28 |  | 13,247 | 16,987 |  |  | 11,745 | 13,274 | 1,032 | 13,247 | 16,987 |  | 11,720 | 13,274 | 1,032 |
| 1/14/2011 | true | true | True | 3.96 | 10.34 | 7.27 | 54\% | 38\% | 70\% |  | 1.42 | 7.9 | 7.2 | 202.00 |  |  | 14.87 | 12,248 |  | 902 |  | 11,778 | 13,353 | 1,006 | 12,248 |  | 902 | 11,753 | 13,353 | 1,006 |
| 1/15/2011 | TRUE | true | FALSE | 3.67 | 11.25 | 7.08 | 52\% | 33\% | 63\% |  | 1.59 | 7.9 | 7.2 |  |  |  |  |  |  |  |  | 11,778 | 13,353 | 1,006 |  |  |  | 11,753 | 13,353 | 1,006 |
| 1/16/2011 | true | true | FALSE | 3.58 | 10.69 | 6.86 | 52\% | 33\% | 64\% |  | 1.56 | 7.9 | 7.1 |  |  |  |  |  |  |  |  | 11,778 | 13,353 | 893 |  |  |  | 11,753 | 13,353 | 893 |
| 1/17/2011 | TRUE | true | true | 3.57 | 11.19 | 7.28 | 49\% | 32\% | 65\% |  | 1.54 | 7.9 | 7.1 |  |  |  |  |  |  |  |  | 11,690 | 13,353 | 893 |  |  |  | 11,663 | 13,353 | 893 |
| 1/18/2011 | TRUE | true | TRUE | 3.54 | 10.16 | 7.15 | 50\% | 35\% | 70\% |  | 1.42 | 7.9 | 7.2 | 207.00 | 277.00 | 1.34 |  | 12,344 | 16,518 |  |  | 11,728 | 13,986 | 893 | 12,344 | 16,518 |  | 11,703 | 13,986 | 893 |
| 1/19/2011 | true | true | FALSE | 3.63 | 10.08 | 6.95 | 52\% | 36\% | 69\% |  | 1.45 | 7.8 | 7.1 |  |  |  |  |  |  |  |  | 11,728 | 13,986 | 893 |  |  |  | 11,703 | 13,986 | 893 |
| 1/20/2011 | TRUE | TRUE | FALSE | 3.61 | 10.00 | 6.91 | 52\% | 36\% | 69\% |  | 1.45 | 7.8 | 7.1 | 198.00 |  |  | 18.15 | 11,411 |  | 1,046 |  | 11,789 | 13,986 | 923 | 11,411 |  | 1,046 | 11,764 | 13,986 | 923 |


| Date | Butte Break? | $\begin{gathered} \text { csu } \\ \text { Break? } \end{gathered}$ | Precip? |  | $\begin{gathered} \text { Max } \\ \text { Influent } \\ \text { Flow, } \text { mgd } \end{gathered}$ | $\begin{gathered} \text { Avg } \\ \text { Influent } \\ \text { Fow, mgd } \end{gathered}$ | $\underset{\text { Min } \% \text { of }}{\substack{\text { Avg }}}$ | Min \% of | $\begin{aligned} & \text { Avg \% of } \\ & \text { Max } \end{aligned}$ | $\begin{aligned} & \text { Flow } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | Diurnal Peak Factor <br> (DPF) | $\begin{aligned} & \text { 30-d Avg } \\ & \text { of Avg } \\ & \text { Filow, mgd } \end{aligned}$ | 7-d Avg of Avg Flow, mgd | Influent TSS Conc., mg/L | Influent BOD Conc., mg/L | BOD/TSS Ratio | Influent NH3-N Conc., mg/L | Avg Inf TSS Load, ppd | Avg Inf ppd | Avg $\operatorname{lnf}$ NH3 Load, ppd | $\begin{aligned} & \text { Load } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | $\begin{gathered} \text { 30-d Avg } \\ \text { of TSS } \\ \text { Load, ppd } \end{gathered}$ | 30-d Avg of BOD Load, ppd | 30-d Avg of NH3-N Load, ppd | non-SN TSS Load, ppd | non-SN BOD Load, ppd | non-SN NH3 Load, ppd | 30-d Avg <br> of non-SN TSS Load, ppd | 30-d Avg of non-SN BOD Load, ppd | $\begin{aligned} & \text { 30-d Avg } \\ & \text { of non-SN } \\ & \text { NH3 } \\ & \text { Load, ppd } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1/21/2011 | TRUE | TRUE | FALSE | 3.56 | 10.23 | 7.01 | 51\% | 35\% | 69\% |  | 1.46 | 7.7 | 7.1 | 210.00 | 257.00 | 1.22 |  | 12,277 | 15,025 |  |  | 111,848 | 14,159 | 970 | 12,277 | 15,025 |  | ${ }^{11,823}$ | 14,159 | 970 |
| 1/22/2011 | true | TRUE | FALSE | 3.56 | 10.76 | 6.94 | 51\% | 33\% | 64\% |  | 1.55 | 7.6 | 7.0 |  |  |  |  |  |  |  |  | 11,840 | 14,630 | 970 |  |  |  | 11,814 | 14,630 | 970 |
| 1/23/2011 | TRUE | TRUE | FALSE | 3.62 | 10.97 | 7.05 | 51\% | 33\% | 64\% |  | 1.56 | 7.6 | 7.0 |  |  |  |  |  |  |  |  | 11,840 | 14,630 | 970 |  |  |  | 11,814 | 14,630 | 970 |
| 1/24/2011 | TRUE | TRUE | FALSE | 3.44 | 10.77 | 7.10 | 48\% | 32\% | 66\% |  | 1.52 | 7.6 | 7.0 | 206.00 |  |  |  | 12,198 |  |  |  | 11,861 | 14,630 | 970 | 12,198 |  |  | 11,836 | 14,630 | 970 |
| 1/25/2011 | FALSE | FALSE | FALSE | 3.58 | 10.95 | 7.01 | 51\% | 33\% | 64\% |  | 1.56 | 7.5 | 7.0 | 185.00 | 228.00 | 1.23 |  | 12,816 | 13,330 |  |  | 11,803 | 14,413 | 970 | 10,816 | 13,330 |  | 11,780 | 14,413 | 970 |
| 1/26/2011 | false | FALSE | FALSE | 3.57 | 10.71 | 7.05 | 51\% | 33\% | 66\% |  | 1.52 | 7.5 | 7.0 |  |  |  |  |  |  |  |  | 11,803 | 14,413 | 970 |  |  |  | 11,780 | 14,413 | 970 |
| 1/27/2011 | FALSE | FALSE | TRUE | 3.46 | 10.50 | 6.94 | 50\% | 33\% | 66\% |  | 1.51 | 7.5 | 7.0 |  |  |  | 24.15 |  |  | 1,398 |  | 11,921 | 14,413 | 1,056 |  |  | 1,398 | 11,921 | 14,413 | 1,056 |
| 1/28/2011 | FALSE | FALSE | TRUE | 3.50 | 10.55 | 6.97 | 50\% | 33\% | 66\% |  | 1.51 | 7.5 | 7.0 | 238.00 | 283.00 | 1.19 |  | 13,835 | 16,451 |  |  | 12,012 | 14,704 | 1,056 | 13,835 | 16,451 |  | 12,012 | 14,704 | 1,056 |
| 1/29/2011 | FALISE | FALSE | TRUE | 3.50 | 10.73 | 6.97 | 50\% | 33\% | 65\% |  | 1.54 | 7.4 | 7.0 |  |  |  |  |  |  |  |  | 11,954 | 15,153 | 1,056 |  |  |  | 11,954 | 15,153 | 1,056 |
| 1/30/2011 | FALSE | FALSE | TRUE | 3.50 | 10.60 | 7.06 | 50\% | 33\% | 67\% |  | 1.50 | 7.3 | 7.0 |  |  |  |  |  |  |  |  | 12,019 | 15,153 | 1,124 |  |  |  | 12,019 | 15,153 | 1,124 |
| 1/31/2011 | false | FALSE | FALSE | 3.60 | 11.20 | 7.11 | 51\% | 32\% | 63\% |  | 1.58 | 7.3 | 7.0 | 176.00 |  |  |  | 10,436 |  |  |  | 11,920 | 15,153 | 1,124 | 10,436 |  |  | 11,920 | 15,153 | 1,124 |
| 2/1/2011 | FALSE | FALSE | FALSE | 3.60 | 11.00 | 7.03 | 51\% | 33\% | 64\% |  | 1.56 | 7.2 | 7.0 | 200.00 | 286.00 | 1.43 |  | 11,726 | 16,768 |  |  | 11,909 | 15,384 | 1,124 | 11,726 | 16,768 |  | 11,909 | 15,384 | 1,124 |
| 2/2/2011 | FALSE | FALSE | FALSE | 3.50 | 7.50 | 6.96 | 50\% | 47\% | 93\% | AvgMax | 1.08 | 7.2 | 7.0 |  |  |  |  |  |  |  |  | 11,909 | 15,384 | 1,124 |  |  |  | 11,909 | 15,384 | 1,124 |
| 2/3/2011 | FALSE | FALSE | FALSE | 3.70 | 10.60 | 7.12 | 52\% | 35\% | 67\% |  | 1.49 | 7.1 | 7.0 | 255.00 |  |  | 17.30 | 15,142 |  | 1,027 |  | 12,101 | 15,384 | 1,105 | 15,142 |  | 1,027 | 12,101 | 15,384 | 1,105 |
| 2/4/2011 | FALSE | FALSE | FALSE | 3.60 | 11.85 | 6.75 | 53\% | 30\% | 57\% | AvgMax | 1.76 | 7.1 | 7.0 | 297.00 | 344.00 | 1.16 |  | 16,720 | 19,365 |  |  | 12,394 | 15,882 | 1,093 | 16,720 | 19,365 |  | 12,394 | 15,882 | 1,093 |
| 2/5/2011 | FALSE | FALSE | FALSE | 3.44 | 10.72 | 6.63 | 52\% | 32\% | 62\% |  | 1.62 | 7.1 | 7.0 |  |  |  |  |  |  |  |  | 12,432 | 15,882 | 1,093 |  |  |  | 12,432 | 15,882 | 1,093 |
| 2/6/2011 | false | FALSE | FALSE | 3.34 | 7.56 | 6.49 | 51\% | 44\% | 86\% | AvgMax | 1.16 | 7.1 | 7.0 |  |  |  |  |  |  |  |  | 12,530 | 16,349 | 1,093 |  |  |  | 12,530 | 16,349 | 1,093 |
| 2/7/2011 | FALSE | FALSE | FALSE | 3.34 | 6.63 | 6.63 | 50\% | 50\% | 100\% | AvgMax | 1.00 | 7.0 | 7.0 | 227.00 |  |  |  | 12,552 |  |  |  | 12,709 | 16,349 | 1,093 | 12,552 |  |  | 12,709 | 16,349 | 1,093 |
| 2/8/2011 | FALSE | FALSE | FALSE | 3.38 | 6.92 | 6.67 | 51\% | 49\% | 96\% | AvgMax | 1.04 | 7.0 | 6.9 | 200.00 |  |  |  | 11,126 |  |  |  | 12,610 | 16,349 | 1,093 | 11,126 |  |  | 12,610 | 16,349 | 1,093 |
| 2/9/2011 | FALSE | FALSE | FALSE | 3.33 | 6.67 | 6.54 | 51\% | 50\% | 98\% | AveMax | 1.02 | 7.0 | 6.9 | 220.00 | 276.00 | 1.25 |  | 12,000 | 15,054 |  |  | 12,574 | 16,187 | 1,093 | 12,000 | 15,054 |  | 12,574 | 16,187 | 1,093 |
| 2/10/2011 | FALSE | FALSE | FALSE | 3.35 | 6.44 | 6.37 | 53\% | 52\% | 99\% | AvgMax | 1.01 | 7.0 | 6.9 |  |  |  | 21.73 |  |  | 1,154 |  | 12,531 | 16,187 | 1,105 |  |  | 1,154 | 12,531 | 16,187 | 1,105 |
| 2/11/2011 | false | FALSE | FALSE | 3.46 | 9.88 | 6.42 | 54\% | 35\% | 65\% |  | 1.54 | 7.0 | 6.5 | 209.00 | 255.00 | 1.22 |  | 11,190 | 13,653 |  |  | 12,452 | 15,906 | 1,105 | 11,190 | 13,653 |  | 12,452 | 15,906 | 1,105 |
| 2/12/2011 | FALSE | FALSE | FALSE | 3.55 | 9.39 | 6.38 | 56\% | 38\% | 68\% |  | 1.47 | 7.0 | 6.5 |  |  |  |  |  |  |  |  | 12,454 | 15,906 | 1,105 |  |  |  | 12,454 | 15,906 | 1,105 |
| 2/13/2011 | FALSE | FALSE | FALSE | 3.31 | 9.72 | 6.41 | 52\% | 34\% | 66\% |  | 1.52 | 6.9 | 6.4 |  |  |  |  |  |  |  |  | 12,401 | 15,771 | 1,105 |  |  |  | 12,401 | 15,771 | 1,105 |
| 2/14/2011 | false | FALSE | True | 3.52 | 9.58 | 6.97 | 51\% | 37\% | 73\% |  | 1.37 | 6.9 | 6.5 | 222.00 |  |  |  | 12,905 |  |  |  | 12,445 | 15,771 | 1,156 | 12,905 |  |  | 12,445 | 15,771 | 1,156 |
| 2/15/2011 | FALSE | FALSE | TRUE | 3.49 | 11.06 | 7.52 | 46\% | 32\% | 68\% |  | 1.47 | 7.0 | 6.7 | 217.00 | 285.00 | 1.31 |  | 13,610 | 17,874 |  |  | 12,518 | 16,004 | 1,156 | 13,610 | 17,874 |  | 12,518 | 16,004 | 1,156 |
| 2/16/2011 | FALSE | FALSE | TRUE | 3.88 | 11.71 | 8.41 | 46\% | 33\% | 72\% |  | 1.39 | 7.0 | 7.0 |  |  |  |  |  |  |  |  | 12,518 | 16,004 | 1,156 |  |  |  | 12,518 | 16,004 | 1,156 |
| 2/17/2011 | FALSE | FALSE | True | 4.24 | 13.82 | 10.04 | 42\% | 31\% | 73\% |  | 1.38 | 7.1 | 7.5 | 209.00 |  |  | 16.75 | 17,500 |  | 1,403 |  | 12,811 | 16,004 | 1,206 | 17,500 |  | 1,403 | 12,811 | 16,004 | 1,206 |
| 2/18/2011 | false | FALSE | TRUE | 5.21 | 9.76 | 9.50 | 55\% | 53\% | 97\% | AvgMax | 1.03 | 7.1 | 7.5 | 234.00 | 237.00 | 1.01 |  | 18,540 | 18,778 |  |  | 13,175 | 16,255 | 1,206 | 18,540 | 18,778 |  | 13,175 | 16,255 | 1,206 |
| 2/19/2011 | FALSE | FALSE | TRUE | 4.71 | 11.53 | 9.59 | 49\% | 41\% | 83\% |  | 1.20 | 7.2 | 7.9 |  |  |  |  |  |  |  |  | 13,175 | 16,255 | 1,206 |  |  |  | 13,175 | 16,255 | 1,206 |
| 2/20/2011 | false | FALSE | FALSE | 4.43 | 9.76 | 8.46 | 52\% | 45\% | 87\% | AvgMax | 1.15 | 7.3 | 8.2 |  |  |  |  |  |  |  |  | 13,286 | 16,255 | 1,246 |  |  |  | 13,286 | 16,255 | 1,246 |
| 2/21/2011 | FALSE | FALSE | FALSE | 5.34 | 12.56 | 8.55 | 62\% | 43\% | 68\% |  | 1.47 | 7.3 | 8.5 |  |  |  |  |  |  |  |  | 13,353 | 16,409 | 1,246 |  |  |  | 13,353 | 16,409 | 1,246 |
| 2/22/2011 | FALSE | FALSE | FALSE | 4.65 | 10.23 | 8.05 | 58\% | 45\% | 79\% |  | 1.27 | 7.4 | 8.7 | 181.00 | 224.00 | 1.24 |  | 12,152 | 15,039 |  |  | 13,278 | 16,257 | 1,246 | 12,152 | 15,039 |  | 13,278 | 16,257 | 1,246 |
| 2/23/2011 | FALSE | FALSE | FALSE | 4.47 | 10.24 | 7.82 | 57\% | 44\% | 76\% |  | 1.31 | 7.4 | 8.7 |  |  |  |  |  |  |  |  | 13,278 | 16,257 | 1,246 |  |  |  | 13,278 | 16,257 | 1,246 |
| 2/24/2011 | FALSE | FALSE | TRUE | 4.47 | 9.86 | 7.76 | 58\% | 45\% | 79\% |  | 1.27 | 7.4 | 8.6 | 190.00 |  |  | 17.07 | 12,296 |  | 1,105 |  | 13,284 | 16,257 | 1,217 | 12,296 |  | 1,105 | 13,284 | 16,257 | 1,217 |
| 2/25/2011 | FALSE | FALSE | TRUE | 3.95 | 13.42 | 9.38 | 42\% | 29\% | 70\% | MinAvg | 1.43 | 7.5 | 8.4 | 114.00 | 154.00 | 1.35 |  | 8,918 | 12,047 |  |  | 13,165 | 16,114 | 1,217 | 8,918 | 12,047 |  | 13,165 | 16,114 | 1,217 |
| 2/26/2011 | false | FALSE | FALSE | 4.19 | 12.26 | 8.45 | 50\% | 34\% | 69\% |  | 1.45 | 7.5 | 8.4 |  |  |  |  |  |  |  |  | 13,165 | 16,114 | 1,217 |  |  |  | 13,165 | 16,114 | 1,217 |
| 2/27/2011 | FALSE | FALSE | FALSE | 5.36 | 11.36 | 8.09 | 66\% | 47\% | 71\% |  | 1.40 | 7.6 | 8.1 |  |  |  |  |  |  |  |  | 13,165 | 16,114 | 1,172 |  |  |  | 13,165 | 16,114 | 1,172 |
| 2/28/2011 | FALSE | FALSE | FALSE | 3.82 | 8.49 | 7.88 | 48\% | 45\% | 93\% | AvgMax | 1.08 | 7.6 | 8.1 | 171.00 |  |  |  | 11,238 |  |  |  | 13,003 | 16,072 | 1,172 | 11,238 |  |  | 13,003 | 16,072 | 1,172 |
| 3/1/2011 | FALSE | FALSE | TRUE | 3.56 | 11.26 | 7.83 | 45\% | 32\% | 70\% |  | 1.44 | 7.7 | 8.0 | 174.00 | 249.00 | 1.43 |  | 11,363 | 16,260 |  |  | 12,907 | 16,093 | 1,172 | 11,363 | 16,260 |  | 12,907 | 16,093 | 1,172 |
| 3/2/2011 | FALSE | FALSE | TRUE | 3.80 | 12.05 | 8.70 | 44\% | 32\% | 72\% |  | 1.39 | 7.7 | 8.1 |  |  |  |  |  |  |  |  | 12,907 | 16,093 | 1,172 |  |  |  | 12,907 | 16,093 | 1,172 |
| 3/3/2011 | FALSE | FALSE | FALSE | 4.16 | 11.49 | 8.44 | 49\% | 36\% | 73\% |  | 1.36 | 7.8 | 8.2 | 210.00 |  |  |  | 14,782 |  |  |  | 13,162 | 16,093 | 1,172 | 14,782 |  |  | 13,162 | 16,093 | 1,172 |
| 3/4/2011 | FALSE | FALSE | FALSE | 4.12 | 10.84 | 8.17 | 50\% | 38\% | 75\% |  | 1.33 | 7.9 | 8.3 | 180.00 | 259.00 | 1.44 | 22.79 | 12,265 | 17,648 | 1,553 |  | 13,194 | 16,191 | 1,248 | 12,265 | 17,648 | 1,553 | 13,194 | 16,191 | 1,248 |
| 3/5/2011 | FALSE | FALSE | TRUE | 4.04 | 11.57 | 7.85 | 51\% | 35\% | 68\% |  | 1.47 | 7.9 | 8.2 |  |  |  |  |  |  |  |  | 13,194 | 16,191 | 1,248 |  |  |  | 13,194 | 16,191 | 1,248 |
| 3/6/2011 | FALSE | FALSE | TRUE | 4.30 | 12.83 | 8.87 | 48\% | 34\% | 69\% |  | 1.45 | 8.0 | 8.3 |  |  |  |  |  |  |  |  | 13,072 | 16,191 | 1,304 |  |  |  | 13,072 | 16,191 | 1,304 |
| 3/7/2011 | FALSE | FALSE | FALSE | 4.74 | 12.40 | 8.87 | 53\% | 38\% | 72\% |  | 1.40 | 8.0 | 8.4 | 114.00 |  |  |  | 8,433 |  |  |  | 12,554 | 15,794 | 1,304 | 8,433 |  |  | 12,554 | 15,794 | 1,304 |
| 3/8/2011 | FALSE | FALSE | FALSE | 4.25 | 11.65 | 8.21 | 52\% | 36\% | 70\% |  | 1.42 | 8.1 | 8.4 | 177.00 | 254.00 | 1.44 |  | 12,119 | 17,392 |  |  | 12,529 | 15,972 | 1,304 | 12,119 | 17,392 |  | 12,529 | 15,972 | 1,304 |
| 3/9/2011 | FALSE | FALSE | FALSE | 3.99 | 11.46 | 7.92 | 50\% | 35\% | 69\% |  | 1.45 | 8.1 | 8.4 |  |  |  |  |  |  |  |  | 12,529 | 15,972 | 1,304 |  |  |  | 12,529 | 15,972 | 1,304 |
| 3/10/2011 | FALSE | FALSE | TRUE | 3.87 | 11.68 | 8.00 | 48\% | 33\% | 68\% |  | 1.46 | 8.1 | 8.3 | 233.00 |  |  | 16.69 | 15,546 |  | 1,114 |  | 12,705 | 15,972 | 1,266 | 15,546 |  | 1,114 | 12,705 | 15,972 | 1,266 |
| 3/11/2011 | TRUE | TRUE | FALSE | 3.97 | 10.96 | 7.78 | 51\% | 36\% | 71\% |  | 1.41 | 8.0 | 8.2 | 199.00 | 285.00 | 1.43 |  | 12,912 | 18,492 |  |  | 12,810 | 16,224 | 1,266 | 12,912 | 18,492 |  | 12,810 | 16,224 | 1,266 |
| 3/12/2011 | TRUE | TRUE | FALSE | 3.86 | 10.87 | 7.15 | 54\% | 36\% | 66\% |  | 1.52 | 8.0 | 8.1 |  |  |  |  |  |  |  |  | 12,861 | 16,354 | 1,266 |  |  |  | 12,861 | 16,354 | 1,266 |
| 3/13/2011 | TRUE | TRUE | TRUE | 3.90 | 10.90 | 7.00 | 55\% | 36\% | 64\% |  | 1.56 | 8.0 | 8.0 |  |  |  |  |  |  |  |  | 12,861 | 16,354 | 1,293 |  |  |  | 12,861 | 16,354 | 1,293 |
| 3/14/2011 | TRUE | TRUE | FALSE | 4.10 | 11.00 | 7.21 | 57\% | 37\% | 66\% |  | 1.53 | 8.0 | 7.8 | 162.00 |  |  |  | 9,741 |  |  |  | 12,770 | 16,691 | 1,293 | 9,741 |  |  | 12,770 | 16,691 | 1,293 |
| 3/15/2011 | TRUE | TRUE | TRUE | 4.40 | 7.90 | 7.66 | 57\% | 56\% | 97\% | inMaxAvgM | 1.03 | 8.1 | 7.6 | 237.00 |  |  |  | 15,141 |  |  |  | 12,009 | 16,691 | 1,293 | 15,141 |  |  | 12,009 | 16,691 | 1,293 |
| 3/16/2011 | TRUE | TRUE | TRUE | 4.10 | 8.50 | 7.95 | 52\% | 48\% | 94\% | AvgMax | 1.07 | 8.1 | 7.5 | 228.00 | 316.00 | 1.39 |  | 15,117 | 20,952 |  | BOD | 13,032 | 16,691 | 1,293 | 15,117 | 20,952 |  | 13,032 | 16,691 | 1,293 |
| 3/17/2011 | TRUE | TRUE | TRUE | 4.00 | ${ }^{9.00}$ | 7.55 | 53\% | 44\% | 84\% |  | 1.19 | 8.2 | 7.4 | 217.00 |  |  | 14.21 | 13,664 |  | 895 |  | 13,074 | 16,691 | 1,214 | 13,664 |  | 895 | 13,074 | 16,691 | 1,214 |
| 3/18/2011 | FALSE | TRUE | TRUE | 4.13 | 12.86 | 9.08 | 45\% | 32\% | 71\% |  | 1.42 | 8.2 | 7.6 | 198.00 | 230.00 | 1.16 |  | 14,994 | 17,417 |  |  | 13,151 | 16,634 | 1,214 | 14,994 | 17,417 |  | 13,151 | 16,634 | 1,214 |
| 3/19/2011 | FALSE | TRUE | TRUE | 4.78 | 12.74 | 9.88 | 48\% | 38\% | 78\% |  | 1.29 | 8.3 | 8.0 |  |  |  |  |  |  |  |  | 13,151 | 16,634 | 1,214 |  |  |  | 13,151 | 16,634 | 1,214 |
| 3/20/2011 | FALSE | TRUE | TRUE | 6.94 | 11.37 | 10.49 | 66\% | 61\% | 92\% | inMaxAvgM | 1.08 | 8.2 | 8.1 |  |  |  |  |  |  |  |  | 12,895 | 16,634 | 1,166 |  |  |  | 12,895 | 16,634 | 1,166 |
| 3/21/2011 | FALSE | TRUE | TRUE | 5.69 | 10.12 | 9.91 | 57\% | 56\% | 98\% | inMaxAvgM | 1.02 | 8.2 | 8.4 | 170.00 |  |  |  | 14,050 |  |  |  | 12,631 | 16,328 | 1,166 | 14,050 |  |  | 12,631 | 16,328 | 1,166 |
| 3/22/2011 | TRUE | FALSE | TRUE | 5.42 584 | 9.60 <br> 1056 | 9.49 | 57\% | 55\% | 99\% | inMaxAvgM | 1.01 | 8.1 | 8.8 | 159.00 | 193.00 | 1.21 |  | 12,584 | 15,275 |  |  | 12,629 | 16,196 | 1,166 | 12,584 | 15,275 |  | 12,629 | 16,196 | 1,166 |
| 3/23/2011 | TRUE | ${ }^{\text {FALSE }}$ | ${ }_{\text {TRUE }}$ | 5.84 | 10.56 | 10.02 | 55\% | 55\% | 95\% | inMaxAvgM | 1.05 | 8.1 | 8.8 |  |  |  |  |  |  |  |  | 12,629 | 16,196 | 1,166 |  |  |  | 12,629 | 16,196 |  |
| 3/24/2011 | true | FALSE | TRUE | 5.66 | 12.07 | 11.21 | 50\% | 47\% | 93\% | AvgMax | 1.08 | 8.1 | 8.8 | 100.00 |  |  | 11.17 | 9,349 |  | 1,044 |  | 12,456 | 16,196 | 1,142 | 9,349 |  | 1,044 | 12,456 | 16,196 | 1,142 |


| Date | $\begin{aligned} & \text { Butte } \\ & \text { Break? } \end{aligned}$ | $\begin{gathered} \text { csu } \\ \text { Break? } \end{gathered}$ | Precip? | $\min _{\substack{\text { Influent } \\ \text { Flow, mgd I }}}$ | $\begin{gathered} \text { Max } \\ \text { Influent } \\ \text { Flow, } \text { mgd } \end{gathered}$ | Avg Influent Flow, mgd | $\begin{aligned} & \text { Min \% of } \\ & \text { Avg } \end{aligned}$ | $\begin{gathered} \text { Min } \% \text { of } \\ \text { Maz } \end{gathered}$ | $\begin{aligned} & \text { Avg \% of } \end{aligned}$ | $\begin{aligned} & \text { Flow } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | $\begin{aligned} & \text { Diurnal } \\ & \text { Peak } \\ & \text { Factor } \\ & \text { (DPF) } \end{aligned}$ | $\begin{aligned} & \text { 30-d Avg } \\ & \text { of Avg } \\ & \text { Flow, mgd } \end{aligned}$ | 7-d Avg of Avg Flow, mgd | Influent TSS Conc., mg/L | Influent BOD Conc., mg/L | $\underset{\substack{\text { Bod/Tss } \\ \text { Ratio }}}{ }$ | Influent NH3-N Conc., mg/L | Avg Inf TSS Load, ppd | Avg Inf BOD Load, ppd | Avg Inf NH3 Load, ppd | $\begin{aligned} & \text { Load } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | 30-d Avg of TSS Load, ppd | 30-d Avg of BOD Load, ppd | 30-d Avg of NH3-N Load, ppd | $\begin{aligned} & \text { non-SN } \\ & \text { TSS Lood, } \\ & \text { Tppd } \end{aligned}$ | non-SN BOD Load, ppd | non-SN NH3 Load, ppd | 30-d Avg of non-SN TSS Load, ppd | 30-d Avg <br> of non-SN BOD Load, ppd | 30-d Avg <br> of non-SN NHB-N <br> Load, ppd |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3/25/2011 | FALSE | FALSE | TRUE | 6.71 | 13.16 | 10.36 | 65\% | 51\% | 79\% |  | 1.27 | 8.2 | 9.8 | 152.00 | 177.00 | 1.16 |  | 13,133 | 15,293 |  |  | 12,508 | 16,228 | 1,142 | 13,133 | 15,293 |  | 12,508 | 16,228 | 1,142 |
| 3/26/2011 | false | FALSE | TRUE | 6.70 | 15.37 | 11.51 | 58\% | 44\% | 75\% |  | 1.34 | 8.4 | 10.6 |  |  |  |  |  |  |  |  | 12,508 | 16,228 | 1,142 |  |  |  | 12,508 | 16,228 | 1,142 |
| 3/27/2011 | FALSE | FALSE | TRUE | 5.57 | 14.27 | 10.27 | 54\% | 39\% | 72\% |  | 1.39 | 8.5 | 10.7 |  |  |  |  |  |  |  |  | 12,519 | 16,228 | 1,151 |  |  |  | 12,519 | 16,228 | 1,151 |
| 3/28/2011 | false | FALSE | false | 5.61 | 14.10 | 9.67 | 58\% | 40\% | 69\% |  | 1.46 | 8.6 | 10.5 | 161.00 |  |  |  | 12,984 |  |  |  | 12,745 | 16,825 | 1,151 | 12,984 |  |  | 12,745 | 16,825 | 1,151 |
| 3/29/2011 | false | FALSE | FALSE | 4.98 | 12.31 | 9.13 | 55\% | 40\% | 74\% |  | 1.35 | 8.6 | 10.2 | 167.00 |  |  |  | 12,716 |  |  |  | 12,744 | 16,825 | 1,151 | 12,716 |  |  | 12,744 | 16,825 | 1,151 |
| 3/30/2011 | false | FALSE | FALSE | 4.74 | 12.13 | 8.98 | 53\% | 39\% | 74\% |  | 1.35 | 8.6 | 10.0 |  |  |  |  |  |  |  |  | 12,744 | 16,825 | 1,151 |  |  |  | 12,744 | 16,825 | 1,151 |
| 3/31/2011 | FALSE | FALSE | FALSE | 4.60 | 11.40 | 8.78 | 52\% | 40\% | 77\% |  | 1.30 | 8.6 | 9.8 | 182.00 |  |  | 12.85 | 13,327 |  | 941 |  | 12,854 | 16,825 | 1,109 | 13,327 |  | 941 | 12,854 | 16,825 | 1,109 |
| 4/1/2011 | false | FALSE | false | 4.66 | 8.91 | 8.43 | 55\% | 52\% | 95\% | AvgMax | 1.06 | 8.7 | 9.8 | 186.00 | 229.00 | 1.23 |  | 13,077 | 16,100 |  |  | 12,944 | 16,803 | 1,109 | 13,077 | 16,100 |  | 12,944 | 16,803 | 1,109 |
| 4/2/2011 | FALSE | FaLSE | FALSE | 4.34 | 9.40 | 8.07 | 54\% | 46\% | 86\% | AvgMax | 1.16 | 8.7 | 9.7 |  |  |  |  |  |  |  |  | 12,944 | 16,803 | 1,109 |  |  |  | 12,944 | 16,803 | 1,109 |
| 4/3/2011 | FALSE | False | false | 4.17 | 9.52 | 7.93 | 53\% | 44\% | 83\% |  | 1.20 | 8.6 | 9.1 |  |  |  |  |  |  |  |  | 12,842 | 16,803 | 1,109 |  |  |  | 12,842 | 16,803 | 1,109 |
| 4/4/2011 | FALSE | False | false | 4.10 | 10.32 | 7.86 | 52\% | 40\% | 76\% |  | 1.31 | 8.6 | 8.7 | 174.00 |  |  |  | 11,406 |  |  |  | 12,794 | 16,662 | 998 | 11,406 |  |  | 12,794 | 16,662 | 998 |
| 4/5/2011 | FALSE | FALSE | false | 4.47 | 9.99 | 7.72 | 58\% | 45\% | 77\% |  | 1.29 | 8.6 | 8.4 | 168.00 | 190.00 | 1.13 | 14.63 | 10,817 | 12,233 | 942 |  | 12,690 | 16,029 | 987 | 10,817 | 12,233 | 942 | 12,690 | 16,029 | 987 |
| 4/6/2011 | FALSE | FALSE | FALSE | 4.44 | 9.93 | 7.69 | 58\% | 45\% | 77\% |  | 1.29 | 8.6 | 8.2 |  |  |  |  |  |  |  |  | 12,690 | 16,029 | 987 |  |  |  | 12,690 | 16,029 | 987 |
| 4/7/2011 | false | FALSE | FALSE | 4.33 | 9.83 | 7.62 | 57\% | 44\% | 78\% |  | 1.29 | 8.5 | 7.9 |  |  |  |  |  |  |  |  | 12,927 | 16,029 | 987 |  |  |  | 12,927 | 16,029 | 987 |
| 4/8/2011 | false | FALSE | FALSE | 3.21 | 10.53 | 7.48 | 43\% | 30\% | 71\% |  | 1.41 | 8.5 | 7.7 | 189.00 | 198.00 | 1.05 |  | 11,790 | 12,352 |  |  | 12,908 | 15,309 | 987 | 11,790 | 12,352 |  | 12,908 | 15,309 | 987 |
| 4/9/2011 | FALSE | false | false | 3.59 | 11.04 | 7.26 | 49\% | 33\% | 66\% |  | 1.52 | 8.5 | 7.7 |  |  |  |  |  |  |  |  | 12,908 | 15,309 | 987 |  |  |  | 12,908 | 15,309 | 987 |
| 4/10/2011 | FALSE | FALSE | FALSE | 4.00 | 9.50 | 7.19 | 56\% | 42\% | 76\% |  | 1.32 | 8.4 | 7.6 |  |  |  |  |  |  |  |  | 12,753 | 15,309 | 955 |  |  |  | 12,753 | 15,309 | 955 |
| 4/11/2011 | FALSE | FALSE | FALSE | 4.10 | 9.26 | 7.26 | 56\% | 44\% | 78\% |  | 1.28 | 8.4 | 7.5 | 154.00 |  |  |  | 9,324 |  |  |  | 12,542 | 14,778 | 955 | 9,324 |  |  | 12,542 | 14,778 | 955 |
| 4/12/2011 | FALSE | FALSE | FALSE | 4.20 | 9.26 | 7.26 | 58\% | 45\% | 78\% |  | 1.28 | 8.4 | 7.4 | 206.00 | 210.00 | 1.02 |  | 12,473 | 12,715 |  |  | 12,538 | 14,484 | 955 | 12,473 | 12,715 |  | 12,538 | 14,484 | 955 |
| 4/13/2011 | FALSE | FALSE | true | 4.30 | 9.12 | 7.20 | 60\% | 47\% | 79\% |  | 1.27 | 8.4 | 7.4 |  |  |  |  |  |  |  |  | 12,538 | 14,484 | 955 |  |  |  | 12,538 | 14,484 | 955 |
| 4/14/2011 | false | FALSE | FALSE | 4.45 | 8.75 | 7.16 | 62\% | 51\% | 82\% |  | 1.22 | 8.4 | 7.3 |  |  |  | 20.61 |  |  | 1,231 |  | 12,703 | 14,484 | 1,011 |  |  | 1,231 | 12,703 | 14,484 | 1,011 |
| 4/15/2011 | false | FALSE | false | 3.80 | 9.40 | 7.00 | 54\% | 40\% | 74\% |  | 1.34 | 8.3 | 7.2 | 220.00 | 204.00 | 0.93 |  | 12,844 | 11,910 |  |  | 12,568 | 14,162 | 1,011 | 12,844 | 11,910 |  | 12,568 | 14,162 | 1,011 |
| 4/16/2011 | FALSE | FALSE | FALSE | 3.80 | 9.60 | 6.76 | 56\% | 40\% | 70\% |  | 1.42 | 8.3 | 7.1 |  |  |  |  |  |  |  |  | 12,408 | 14,162 | 1,011 |  |  |  | 12,408 | 14,162 | 1,011 |
| 4/17/2011 | false | FALSE | TRUE | 3.88 | 8.93 | 6.92 | 56\% | 43\% | 77\% |  | 1.29 | 8.2 | 7.1 |  |  |  |  |  |  |  |  | 12,325 | 14,162 | 1,039 |  |  |  | 12,325 | 14,162 | 1,039 |
| 4/18/2011 | false | FALSE | TRUE | 3.88 | 9.57 | 7.19 | 54\% | 41\% | 75\% |  | 1.33 | 8.2 | 7.1 | 226.00 |  |  |  | 13,552 |  |  |  | 12,229 | 13,697 | 1,039 | 13,552 |  |  | 12,229 | 13,697 | 1,039 |
| 4/19/2011 | false | FALSE | false | 3.79 | 9.07 | 6.99 | 54\% | 42\% | 77\% |  | 1.30 | 8.0 | 7.1 | 213.00 | 219.00 | 1.03 |  | 12,417 | 12,767 |  |  | 12,240 | 13,581 | 1,039 | 12,417 | 12,767 |  | 12,240 | 13,581 | 1,039 |
| 4/20/2011 | false | FALSE | FALSE | 3.90 | 9.10 | 7.04 | 55\% | 43\% | 77\% |  | 1.29 | 8.0 | 7.0 |  |  |  |  |  |  |  |  | 12,240 | 13,581 | 1,039 |  |  |  | 12,240 | 13,581 | 1,039 |
| 4/21/2011 | FALSE | FALSE | True | 3.90 | 9.20 | 6.92 | 56\% | 42\% | 75\% |  | 1.33 | 8.0 | 7.0 |  |  |  | 22.32 |  |  | 1,288 |  | 12,120 | 13,581 | 1,089 |  |  | 1,288 | 12,120 | 13,581 | 1,089 |
| 4/2/2/2011 | FALSE | FALSE | FALSE | 4.15 | 8.66 | 6.91 | 60\% | 48\% | 80\% |  | 1.25 | 7.9 | 7.0 | 238.00 | 259.00 | 1.09 |  | 13,716 | 14,926 |  |  | 12,195 | 13,537 | 1,089 | 13,716 | 14,926 |  | 12,195 | 13,537 | 1,089 |
| 4/23/2011 | FALSE | FALSE | FALSE | 3.99 | 9.29 | 6.61 | 60\% | 43\% | 71\% |  | 1.41 | 7.9 | 6.9 |  |  |  |  |  |  |  |  | 12,195 | 13,537 | 1,089 |  |  |  | 12,195 | 13,537 | 1,089 |
| 4/24/2011 | FALSE | FALSE | FALSE |  | 8.80 | 6.02 |  |  | 68\% | inAvgMinM | 1.46 | 7.9 | 6.9 |  |  |  |  |  |  |  |  | 12,398 | 13,537 | 1,100 |  |  |  | 12,398 | 13,537 | 1,100 |
| 4/25/2011 | FALSE | FALSE | FALSE | 3.80 | 8.80 | 7.15 | 53\% | 43\% | 81\% |  | 1.23 | 7.8 | 7.0 | 245.00 |  |  |  | 14,610 |  |  |  | 12,504 | 13,286 | 1,100 | 14,610 |  |  | 12,504 | 13,286 | 1,100 |
| 4/26/2011 | FALSE | FALSE | FALSE | 3.80 | 9.00 | 6.81 | 56\% | 42\% | 76\% |  | 1.32 | 7.6 | 6.9 | 270.00 | 233.00 | 0.86 |  | 15,335 | 13,233 |  |  | 12,693 | 13,280 | 1,100 | 15,335 | 13,233 |  | 12,693 | 13,280 | 1,100 |
| 4/27/2011 | FALSE | FALSE | FALSE | 3.90 | 9.50 | 6.77 | 58\% | 41\% | 71\% |  | 1.40 | 7.5 | 6.9 |  |  |  |  |  |  |  |  | 12,693 | 13,280 | 1,100 |  |  |  | 12,693 | 13,280 | 1,100 |
| 4/28/2011 | FALSE | FALSE | FALSE | 3.90 | 9.50 | 6.72 | 58\% | 41\% | 71\% |  | 1.41 | 7.4 | 6.8 | 313.00 |  |  | 33.84 | 17,542 |  | 1,897 |  | 12,996 | 13,280 | 1,260 | 17,542 |  | 1,897 | 12,996 | 13,280 | 1,260 |
| 4/29/2011 | FAASE | FALSE | FALSE | 3.67 | 13.92 | 6.79 | 54\% | 26\% | 49\% | AvgMax | 2.05 | 7.3 | 6.8 | 300.00 | 313.00 | 1.04 |  | 16,989 | 17,725 |  |  | 13,281 | 13,773 11373 | 1,260 | 16,989 | 17,725 |  | 13,281 | 13,773 <br> 17373 | 1,260 |
| 4/30/2011 | false | FALSE | false | 3.40 | 9.99 | 6.52 | 52\% | 34\% | 65\% |  | 1.53 | 7.2 | 6.8 |  |  |  |  |  |  |  |  | 13,281 | 13,773 | 1,260 |  |  |  | 13,281 | 13,773 | 1,260 |
| 5/1/2011 | FALSE | FALSE | FALSE | 3.66 | 11.41 | 6.50 | 56\% | 32\% | 57\% | AvgMax | 1.76 | 7.2 | 6.8 |  |  |  |  |  |  |  |  | 13,278 | 13,773 | 1,339 |  |  |  | 13,278 | 13,773 | 1,339 |
| 5/2/2011 | FALSE | FALSE | FALSE | 3.52 | 9.98 | 6.70 | 53\% | 35\% | 67\% |  | 1.49 | 7.1 | 6.8 | 225.00 |  |  |  | 12,573 |  |  |  | 13,242 | 13,483 | 1,339 | 12,573 |  |  | 13,242 | 13,483 | 1,339 |
| 5/3/2011 | FALSE | FALSE | FALSE | 3.52 | 10.06 | 6.61 | 53\% | 35\% | 66\% |  | 1.52 | 7.1 | 6.7 | 226.00 | 225.00 | 1.00 |  | 12,459 | 12,404 |  |  | 13,190 | 13,363 11363 | 1,339 | 12,459 | 12,404 |  | 13,190 | 13,363 13,363 | 1,339 |
| 5/4/2011 | FALSE | FALSE | FALSE | 3.53 | 9.85 | 6.66 | 53\% | 36\% | 68\% |  | 1.48 | 7.1 | 6.7 |  |  |  |  |  |  |  |  | 13,190 | 13,363 | 1,339 |  |  |  | 13,190 | 13,363 | 1,339 |
| 5/5/2011 | FALSE | FALSE | FALSE | 3.57 | 9.97 | 6.59 | 54\% | 36\% | 66\% |  | 1.51 | 7.0 | 6.6 | 237.00 |  |  | 22.45 | 13,026 |  | 1,234 |  | 13,298 | 13,363 | 1,318 | 13,026 12,734 |  | 1,234 | 13,298 | 13,363 11357 | 1,318 <br> 1,412 |
| 5/6/2011 | FALSE | FALSE | FALSE | 3.90 | 9.60 | 6.61 | 59\% | 41\% | 69\% |  | 1.45 | 7.0 | 6.6 | 231.00 | 221.00 | 0.96 |  | 12,734 | 12,183 |  |  | 13,426 | 13,357 | 1,412 | 12,734 | 12,183 |  | 13,426 | 13,357 | 1,412 |
| 5/7/2011 | FALSE | FALSE | TRUE | 3.80 | 8.80 | 6.45 | 59\% | 43\% | 73\% |  | 1.36 | 6.9 | 6.6 |  |  |  |  |  |  |  |  | 13,426 | 13,357 | 1,412 |  |  |  | 13,426 | 13,357 | 1,412 |
| 5/8/2011 | FALSE | FALSE | TRUE | 3.41 | 10.37 | 6.49 | 53\% | 33\% | 63\% |  | 1.60 | 6.9 | 6.6 |  |  |  |  |  |  |  |  | 13,426 | 13,357 | 1,412 |  |  |  | 13,426 | 13,357 | 1,412 |
| 5/9/2011 | FALSE | FALSE | true | 3.41 | 10.72 | 6.91 | 49\% | 32\% | 64\% |  | 1.55 | 6.9 | 6.6 | 275.00 |  |  |  | 15,848 |  |  |  | 13,696 | 13,483 | 1,412 | 15,848 |  |  | 13,696 | 13,483 |  |
| 5/10/2011 | false | FALSE | FALSE | 3.45 | 11.01 | 6.72 | 51\% | 31\% | 61\% |  | 1.64 | 6.9 | 6.6 | 257.00 | 266.00 | 1.04 |  | 14,404 | 14,908 |  |  | 13,740 | 13,641 | 1,412 | 14,404 | 14,908 |  | 13,740 | 13,641 | 1,412 |
| 5/11/2011 | FALSE | FALSE | FALSE | 3.57 | 9.72 | 6.71 | 53\% | 37\% | 69\% |  | 1.45 | 6.8 | 6.6 |  |  |  | 26.64 |  |  | 1,491 |  | 13,740 | 13,641 | 1,428 |  |  | 1,491 | 13,740 | 13,641 | 1,428 |
| 5/12/2011 | FALSE | FALSE | FALSE | 3.61 | 9.82 | 6.68 | 54\% | 37\% | 68\% |  | 1.47 | 6.8 | 6.6 | 270.00 |  |  |  | 15,042 |  |  |  | 14,098 | 13,641 | 1,428 | 15,042 |  |  | 14,098 | 13,641 | 1,428 |
| 5/13/2011 | FALSE | FALSE | FALSE | 3.66 | 10.55 | 6.61 | 55\% | 35\% | 63\% |  | 1.60 | 6.8 | 6.6 | 337.00 | 305.00 | 0.91 |  | 18,578 | 16,814 |  |  | 14,479 | 14,097 | 1,428 | 18,578 | 16,814 |  | 14,479 | 14,097 | 1,428 |
| 5/14/2011 | false | FALSE | FALSE | 3.57 | 9.67 | 6.49 | 55\% | 37\% | 67\% |  | 1.49 | 6.8 | 6.6 |  |  |  |  |  |  |  |  | 14,479 | 14,097 | 1,428 |  |  |  | 14,479 | 14,097 | 1,428 |
| 5/15/2011 | FALSE | FALSE | true | 3.88 | 9.57 | 6.75 | 57\% | 41\% | 71\% |  | 1.42 | 6.8 | 6.7 |  |  |  |  |  |  |  |  | 14,479 | 14,097 | 1,477 |  |  |  | 14,479 | 14,097 | 1,477 |
| 5/16/2011 | FALSE | FALSE | TRUE | 3.68 | 9.01 | 7.14 | 52\% | 41\% | 79\% |  | 1.26 | 6.8 | 6.8 | 242.00 |  |  |  | 14,411 |  |  |  | 14,577 | 14,370 | 1,477 | 14,411 |  |  | 14,577 | 14,370 | 1,477 |
| 5/17/2011 | false | FALSE | TRUE | 4.15 | 9.92 | 7.67 | 54\% | 42\% | 77\% |  | 1.29 | 6.8 | 6.8 | 223.00 | 208.00 | 0.93 |  | 14,265 | 13,305 |  |  | 14,559 | 14,252 | 1,477 | 14,265 | 13,305 |  | 14,559 | 14,252 | 1,477 |
| 5/18/2011 | FALSE | FALSE | TRUE | 3.95 | 9.63 | 7.35 | 54\% | 41\% | 76\% |  | 1.31 | 6.8 | 6.9 |  |  |  | 18.01 |  |  | 1,104 |  | 14,559 | 14,252 | 1,403 |  |  | 1,104 | 14,559 | 14,252 | 1,403 |
| 5/19/2011 | false | FALSE | false | 3.93 | 9.30 | 7.12 | 55\% | 42\% | 77\% |  | 1.31 | 6.8 | 7.0 | 222.00 |  |  |  | 13,183 |  |  |  | 14,537 | 14,252 | 1,403 | 13,183 |  |  | 14,537 | 14,252 | 1,403 |
| 5/20/2011 | FALSE | FALSE | false | 3.78 | 9.01 | 6.90 | 55\% | 42\% | 77\% |  | 1.31 | 6.8 | 7.0 | 220.00 | 241.00 | 1.10 |  | 12,660 | 13,869 |  |  | 14,551 | 14,374 | 1,403 | 12,660 | 13,869 |  | 14,551 | 14,374 | 1,403 |
| 5/21/2011 | FALSE | FALSE | FALSE | 3.78 | 9.57 | 6.71 | 56\% | 39\% | 70\% |  | 1.43 | 6.8 | 7.0 |  |  |  |  |  |  |  |  | 14,551 | 14,374 | 1,403 |  |  |  | 14,551 | 14,374 | 1,403 |
| 5/22/2011 | FALSE | TRUE | TRUE | 3.69 | 9.34 | 6.66 | 55\% | 40\% | 71\% |  | 1.40 | 6.8 | 7.0 |  |  |  |  |  |  |  |  | 14,551 | 14,374 | 1,431 |  |  |  | 14,551 | 14,374 | 1,431 |
| 5/23/2011 | FALSE | true | TRUE | 3.92 | 8.41 | 6.89 | 57\% | 47\% | 82\% |  | 1.22 | 6.8 | 7.1 | 179.00 |  |  | 18.61 | 10,286 |  | 1,069 |  | 14,350 | 14,305 | 1,359 | 10,286 |  | 1,069 | 14,350 | 14,305 | 1,359 |
| 5/24/2011 | FALSE | TRUE | TRUE | 3.76 | 8.77 | 6.88 | 55\% | 43\% | 78\% |  | 1.27 | 6.8 | 7.0 | 261.00 |  |  |  | 14,976 |  |  |  | 14,384 | 14,305 | 1,359 | 14,976 |  |  | 14,384 | 14,305 | 1,359 |
| 5/25/2011 5/26/2011 | FALSE FALSE | TRUE TRUE | $\underset{\text { TRALSE }}{\text { TRU }}$ | 4.31 6.20 | 10.89 8.19 | 8.47 7.78 | 51\% 80\% | 40\% | 78\% | 'gMinMaxA' | 1.29 1.05 | 6.9 6.8 | 7.1 7.1 | 169.00 | 159.00 | 0.94 |  | 10,966 | 10,317 |  |  | 14,384 14,182 | 14,305 13,862 | 1,359 1,359 | 10,966 | 10,317 |  | 14,384 14,182 | 14,305 13,862 | 1,359 1,359 |


| Date | $\begin{array}{\|l\|l} \text { Butte } \\ \text { Break? } \end{array}$ | $\underset{\text { Break? }}{\text { csu }}$ | Precip? | $\min _{\substack{\text { Influent } \\ \text { Flow, mgd }}}^{\text {man }}$ | $\underset{\substack{\text { Max } \\ \text { Influent } \\ \text { Flow, } \text { mgd }}}{\text { and }}$ | $\begin{gathered} \text { Avg } \\ \text { Anfluent } \\ \text { Flow, mgd } \end{gathered}$ | $\begin{aligned} & \text { Min \% of } \\ & \text { Avg } \end{aligned}$ | $\underset{\text { max }}{\min _{\text {max }}}$ | $\begin{gathered} \text { Avg } \% \text { of } \\ \text { Max } \end{gathered}$ | $\begin{aligned} & \text { Flow } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | $\begin{aligned} & \text { Diurnal } \\ & \text { Peak } \\ & \text { Factor } \\ & \text { (DPF) } \end{aligned}$ | $\begin{gathered} 30-\mathrm{d} \text { Avg } \\ \text { of Avg } \\ \text { Flow, } \mathrm{mgd} \end{gathered}$ | 7-d Avg of Avg Flow, mgd | Influent TSS Conc., mg/L | $\begin{gathered} \text { Influent } \\ \text { BoD } \\ \text { Conc., } \\ \text { mg/L } \end{gathered}$ | $\underset{\text { Ratio }}{\text { BOD/TSS }}$ | Influent NH3-N Conc., mg/L | Avg Inf TSS Load, ppd | Avg Inf BOD Load, ppd | Avg Inf NH3 Load, ppd | $\begin{aligned} & \text { Load } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | 30-d Avg of TSS Load, ppd | 30-d Avg Load, ppd | 30-d Avg of NH3-N Load, ppd | non-SN TSS Load, ppd | non-SN BOD Load, ppd | non-SN NH3 Load, ppd | $\begin{gathered} \text { 30-d Avg } \\ \text { of non-SN } \\ \text { TSS Load, } \\ \text { ppd } \end{gathered}$ | 30-d Avg <br> of non-SN BOD Load, ppd | $\begin{gathered} \text { 30-d Avg } \\ \text { of non-SN } \\ \text { NH3-N } \\ \text { Load, ppd } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5/27/2011 | TRUE | TRUE | FALSE | 4.12 | 8.84 | 7.03 | 59\% | 47\% | 80\% |  | 1.26 | 6.9 | 7.1 | 195.00 |  |  |  | 11,433 |  |  |  | 13,965 | 13,940 | 1,359 | 10,564 |  |  | 13,917 | 13,940 | 1,359 |
| 5/28/2011 | TRUE | TRUE | TRUE | 3.97 | 9.17 | 6.77 | 59\% | 43\% | 74\% |  | 1.35 | 6.9 | 7.1 |  |  |  |  |  |  |  |  | 13,965 | 13,940 | 1,359 |  |  |  | 13,917 | 13,940 | 1,359 |
| 5/29/2011 | true | true | false | 3.91 | 8.89 | 6.44 | 61\% | 44\% | 72\% |  | 1.38 | 6.8 | 7.0 |  |  |  |  |  |  |  |  | 13,755 | 13,940 | 1,225 |  |  |  | 13,704 | 13,940 | 1,225 |
| 5/30/2011 | true | true | FALSE | 3.73 | 9.54 | 6.56 | 57\% | 39\% | 69\% |  | 1.45 | 6.8 | 7.0 |  |  |  |  |  |  |  |  | 13,553 | 13,400 | 1,225 |  |  |  | 13,498 | 13,400 | 1,225 |
| 5/31/2011 | true | true | True | 3.61 | 8.59 | 6.69 | 54\% | 42\% | 78\% |  | 1.28 | 6.8 | 7.0 | 222.00 |  |  |  | 12,386 |  |  |  | 13,484 | 13,400 | 1,225 | 12,386 |  |  | 13,433 | 13,400 | 1,225 |
| 6/1/2011 | true | true | TRUE | 3.71 | 8.45 | 6.65 | 56\% | 44\% | 79\% |  | 1.27 | 6.8 | 6.9 | 197.00 | 190.00 | 0.96 |  | 10,926 | 10,538 |  |  | 13,342 | 13,042 | 1,225 | 10,926 | 10,538 |  | 13,294 | 13,042 | 1,225 |
| 6/2/2011 | true | true | false | 3.70 | 8.40 | 6.47 | 57\% | 44\% | 77\% |  | 1.30 | 6.8 | 6.7 | 249.00 |  |  |  | 13,436 |  |  |  | 13,390 | 13,042 | 1,225 | 13,436 |  |  | 13,342 | 13,042 | 1,225 |
| 6/3/2011 | true | true | FALSE | 3.88 | 7.39 | 6.34 | 61\% | 53\% | 86\% | AvgMax | 1.17 | 6.8 | 6.7 | 280.00 |  |  | 18.21 | 14,805 |  | 963 |  | 13,520 | 13,133 | 1,172 | 14,805 |  | 963 | 13,472 | 13,133 | 1,172 |
| 6/4/2011 | True | true | TRUE | 3.63 | 8.50 | 6.37 | 57\% | 43\% | 75\% |  | 1.33 | 6.8 | 6.6 |  |  |  |  |  |  |  |  | 13,520 | 13,133 | 1,172 |  |  |  | 13,472 | 13,133 | 1,172 |
| 6/5/2011 | true | true | TRUE | 3.70 | 8.60 | 6.36 | 58\% | 43\% | 74\% |  | 1.35 | 6.8 | 6.5 |  |  |  |  |  |  |  |  | 13,549 | 13,133 | 1,157 |  |  |  | 13,498 | 13,133 | 1,157 |
| 6/6/2011 | true | true | false | 3.80 | 8.40 | 6.61 | 57\% | 45\% | 79\% |  | 1.27 | 6.8 | 6.5 | 189.00 |  |  |  | 10,419 |  |  |  | 13,413 | 13,292 | 1,157 | 10,419 |  |  | 13,362 | 13,292 | 1,157 |
| 6/7/2011 | true | true | True | 3.70 | 8.50 | 6.59 | 56\% | 44\% | 78\% |  | 1.29 | 6.8 | 6.5 | 282.00 | 203.00 | 0.72 |  | 15,499 | 11,157 |  |  | 13,529 | 12,987 | 1,157 | 15,499 | 11,157 |  | 13,481 | 12,987 | 1,157 |
| 6/8/2011 | true | true | false | 4.00 | 8.10 | 6.51 | 61\% | 49\% | 80\% |  | 1.24 | 6.8 | 6.5 | 249.00 |  |  |  | 13,519 |  |  |  | 13,528 | 12,987 | 1,157 | 13,519 |  |  | 13,483 | 12,987 | 1,157 |
| 6/9/2011 | true | true | FALSE | 3.90 | 8.00 | 6.38 | 61\% | 49\% | 80\% |  | 1.25 | 6.8 | 6.5 | 245.00 |  |  | 19.10 | 13,036 |  | 1,016 |  | 13,380 | 12,987 | 1,129 | 13,036 |  | 1,016 | 13,335 | 12,987 | 1,129 |
| 6/10/2011 | true | true | FALSE | 3.86 | 8.21 | 6.26 | 62\% | 47\% | 76\% |  | 1.31 | 6.8 | 6.4 | 204.00 | 243.00 | 1.19 |  | 10,651 | 12,687 |  |  | 13,183 | 12,669 | 1,129 | 10,651 | 12,687 |  | 13,137 | 12,669 | 1,129 |
| 6/11/2011 | true | true | false | 3.76 | 8.34 | 6.08 | 62\% | 45\% | 73\% |  | 1.37 | 6.8 | 6.4 |  |  |  |  |  |  |  |  | 13,183 | 12,669 | 1,038 |  |  |  | 13,137 | 12,669 | 1,038 |
| 6/12/2011 | true | true | FALSE | 3.75 | 8.42 | 6.09 | 62\% | 45\% | 72\% |  | 1.38 | 6.7 | 6.4 |  |  |  |  |  |  |  |  | 13,080 | 12,669 | 1,038 |  |  |  | 13,031 | 12,669 | 1,038 |
| 6/13/2011 | true | true | FALSE | 3.75 | 8.05 | 6.34 | 59\% | 47\% | 79\% |  | 1.27 | 6.7 | 6.4 | 235.00 |  |  |  | 12,426 |  |  |  | 12,738 | 11,979 | 1,038 | 12,426 |  |  | 12,690 | 11,979 | 1,038 |
| 6/14/2011 | true | true | FALSE | 3.92 | 7.90 | 6.28 | 62\% | 50\% | 79\% |  | 1.26 | 6.7 | 6.3 | 234.00 | 218.00 | 0.93 |  | 12,256 | 11,418 |  |  | 12,712 | 11,899 | 1,038 | 12,256 | 11,418 |  | 12,667 | 11,899 | 1,038 |
| 6/15/2011 | true | true | FALSE | 3.74 | 8.25 | 6.22 | 60\% | 45\% | 75\% |  | 1.33 | 6.7 | 6.3 |  |  |  |  |  |  |  |  | 12,712 | 11,899 | 1,038 |  |  |  | 12,667 | 11,899 | 1,038 |
| 6/16/2011 | true | true | FALSE | 3.76 | 7.86 | 6.22 | 60\% | 48\% | 79\% |  | 1.26 | 6.7 | 6.2 | 272.00 |  |  | 21.93 | 14,110 |  | 1,138 |  | 12,697 | 11,899 | 1,058 | 14,110 |  | 1,138 | 12,651 | 11,899 | 1,058 |
| 6/17/2011 | true | true | FALSE | 3.90 | 7.86 | 6.15 | 63\% | 50\% | 78\% |  | 1.28 | 6.6 | 6.2 | 239.00 | 218.00 | 0.91 |  | 12,259 | 11,181 |  |  | 12,591 | 11,595 | 1,058 | 12,259 | 11,181 |  | 12,545 | 11,595 | 1,058 |
| 6/18/2011 | true | true | false | 3.83 | 7.68 | 5.88 | 65\% | 50\% | 77\% |  | 1.31 | 6.6 | 6.2 |  |  |  |  |  |  |  |  | 12,591 | 11,595 | 1,047 |  |  |  | 12,545 | 11,595 | 1,047 |
| 6/19/2011 | TRUE | True | FALSE | 3.62 | 7.88 | 5.89 | 61\% | 46\% | 75\% |  | 1.34 | 6.5 | 6.1 |  |  |  |  |  |  |  |  | 12,558 | 11,595 | 1,047 |  |  |  | 12,510 | 11,595 | 1,047 |
| 6/20/2011 | true | true | false | 3.79 | 7.99 | 6.20 | 61\% | 47\% | 78\% |  | 1.29 | 6.5 | 6.1 | 291.00 |  |  | 21.83 | 15,047 |  | 1,129 |  | 12,691 | 11,216 | 1,063 | 15,047 |  | 1,129 | 12,643 | 11,216 | 1,063 |
| 6/21/2011 | TRUE | True | FALSE | 3.57 | 7.64 | 6.00 | 60\% | 47\% | 79\% |  | 1.27 | 6.5 | 6.1 | 242.00 | 230.00 | 0.95 |  | 12,110 | 11,509 |  |  | 12,660 | 11,258 | 1,063 | 12,110 | 11,509 |  | 12,614 | 11,258 | 1,063 |
| 6/22/2011 | true | true | FALSE | 3.56 | 7.71 | 6.01 | 59\% | 46\% | 78\% |  | 1.28 | 6.5 | 6.1 |  |  |  |  |  |  |  |  | 12,660 | 11,258 | 1,063 |  |  |  | 12,614 | 11,258 | 1,063 |
| 6/23/2011 | TRUE | True | FALSE | 3.62 | 7.34 | 5.99 | 60\% | 49\% | 82\% |  | 1.23 | 6.4 | 6.0 | 252.00 |  |  |  | 12,589 |  |  |  | 12,781 | 11,258 | 1,061 | 12,589 |  |  | 12,736 | 11,258 | 1,061 |
| 6/24/2011 | true | true | false | 3.46 | 7.83 | 5.90 | 59\% | 44\% | 75\% |  | 1.33 | 6.4 | 6.0 | 244.00 |  |  |  | 12,006 |  |  |  | 12,625 | 11,258 | 1,061 | 11,066 |  |  | 12,530 | 11,258 | 1,061 |
| 6/25/2011 | true | true | FALSE | 3.51 | 7.85 | 5.71 | 61\% | 45\% | 73\% |  | 1.37 | 6.3 | 5.9 |  |  |  |  |  |  |  |  | 12,625 | 11,258 | 1,061 |  |  |  | 12,530 | 11,258 | 1,061 |
| 6/26/2011 | true | true | false | 3.54 | 7.33 | 5.68 | 62\% | 48\% | 77\% |  | 1.29 | 6.3 | 5.9 |  |  |  |  |  |  |  |  | 12,717 | 11,415 | 1,061 |  |  |  | 12,617 | 11,415 | 1,061 |
| 6/27/2011 | true | true | FALSE | 3.55 | 7.40 | 6.01 | 59\% | 48\% | 81\% |  | 1.23 | 6.2 | 5.9 | 238.00 |  |  |  | 11,929 |  |  |  | 12,745 | 11,415 | 1,061 | 11,929 |  |  | 12,693 | 11,415 | 1,061 |
| 6/28/2011 | true | true | True | 3.50 | 9.36 | 6.94 | 50\% | 37\% | 74\% |  | 1.35 | 6.2 | 6.0 | 308.00 | 216.00 | 0.70 |  | 17,827 | 12,502 |  |  | 13,012 | 11,570 | 1,061 | 17,827 | 12,502 |  | 12,963 | 11,570 | 1,061 |
| 6/29/2011 | true | true | FALSE | 3.97 | 7.56 | 6.79 | 58\% | 53\% | 90\% | AvgMax | 1.11 | 6.2 | 6.0 |  |  |  |  |  |  |  |  | 13,012 | 11,570 | 1,061 |  |  |  | 12,963 | 11,570 | 1,061 |
| 6/30/2011 | true | true | false | 3.96 | 7.53 | 6.39 | 62\% | 53\% | 85\% |  | 1.18 | 6.2 | 6.1 | 268.00 | 224.00 | 0.84 |  | 14,282 | 11,938 |  |  | 13,076 | 11,616 | 1,061 | 14,282 | 11,938 |  | 13,029 | 11,616 | 1,061 |
| 7/1/2011 | true | true | FALSE | 3.67 | 7.90 | 6.07 | 60\% | 46\% | 77\% |  | 1.30 | 6.2 | 6.1 | 217.00 |  |  | 18.68 | 10,985 |  | 946 |  | 13,006 | 11,616 | 1,038 | 10,985 |  | 946 | 12,959 | 11,616 | 1,038 |
| 7/2/2011 | true | true | FALSE | 3.55 | 7.83 | 5.73 | 62\% | 45\% | 73\% |  | 1.37 | 6.2 | 6.1 |  |  |  |  |  |  |  |  | 13,115 | 11,770 | 1,038 |  |  |  | 13,066 | 11,770 | 1,038 |
| 7/3/2011 | true | true | FALSE | 3.53 | 7.54 | 5.50 | 64\% | 47\% | 73\% |  | 1.37 | 6.2 | 6.0 |  |  |  |  |  |  |  |  | 13,098 | 11,770 | 1,038 |  |  |  | 13,045 | 11,770 | 1,038 |
| 7/4/2011 | true | True | FALSE | 3.70 | 6.40 | 5.52 | 67\% | 58\% | 86\% | inMaxAvgM | 1.16 | 6.2 | 6.1 |  |  |  |  |  |  |  |  | 12,997 | 11,770 | 1,057 |  |  |  | 12,942 | 11,770 | 1,057 |
| 7/5/2011 | true | true | FALSE | 3.51 | 7.64 | 6.06 | 58\% | 46\% | 79\% |  | 1.26 | 6.1 | 6.1 | 243.00 | 163.00 | 0.67 |  | 12,281 | 8,238 |  |  | 12,957 | 11,329 | 1,057 | 12,281 | 8,238 |  | 12,905 | 11,329 | 1,057 |
| 7/6/2011 | true | True | FALSE | 3.70 | 7.40 | 6.15 | 60\% | 50\% | 83\% |  | 1.20 | 6.1 | 6.0 |  |  |  |  |  |  |  |  | 12,957 | 11,329 | 1,057 |  |  |  | 12,905 | 11,329 | 1,057 |
| 7/7/2011 | true | TRUE | FALSE | 3.63 | 7.89 | 6.05 | 60\% | 46\% | 77\% |  | 1.30 | 6.1 | 6.0 | 250.00 |  |  | 17.36 | 12,614 |  | 876 |  | 13,079 | 11,329 | 1,021 | 12,614 |  | 876 | 13,027 | 11,329 | 1,021 |
| 7/8/2011 | true | true | falise | 3.70 | 7.60 | 5.92 | 63\% | 49\% | 78\% |  | 1.28 | 6.1 | 5.9 | 214.00 | 191.00 | 0.89 |  | 10,566 | 9,430 |  |  | 12,805 | 11,113 | 1,021 | 12,566 | 9,430 |  | 12,753 | 11,113 | 1,021 |
| 7/9/2011 | TRUE | TrUE | FALSE | 3.60 | 7.60 | 5.76 | 63\% | 47\% | 76\% |  | 1.32 | 6.1 | 5.9 |  |  |  |  |  |  |  |  | 12,763 | 11,113 | 1,021 |  |  |  | 12,708 | 11,113 | 1,021 |
| 7/10/2011 | True | True | FALIE | 3.45 | 7.91 | 5.83 | 59\% | 44\% | 74\% |  | 1.36 | 6.0 | 5.9 |  |  |  |  |  |  |  |  | 12,746 | 11,113 | 1,022 |  |  |  | 12,687 | 11,113 | 1,022 |
| 7/11/2011 | true | true | FALSE | 3.47 | 8.73 | 6.12 | 57\% | 40\% | 70\% |  | 1.43 | 6.0 | 6.0 |  |  |  |  |  |  |  |  | 12,886 | 10,888 | 1,022 |  |  |  | 12,823 | 10,888 | 1,022 |
| 7/12/2011 | TRUE | TRUE | FALLE | 3.35 | 8.77 | 6.14 | 55\% | 38\% | 70\% |  | 1.43 | 6.0 | 6.0 | 311.00 | 208.00 | 0.67 |  | 15,926 | 10,651 |  |  | 13,076 | 10,858 | 1,022 | 15,926 | 10,651 |  | 13,017 | 10,858 | 1,022 |
| 7/13/2011 | true | true | FALSE | 3.32 | 8.92 | 6.11 | 54\% | 37\% | 68\% |  | 1.46 | 6.0 | 6.0 |  |  |  |  |  |  |  |  | 13,076 | 10,858 | 1,022 |  |  |  | 13,017 | 10,858 | 1,022 |
| 7/14/2011 | TRUE | TRUE | FALSE | 3.38 3 | 8.91 | 6.07 | 56\% | 38\% | 68\% |  | 1.47 | 6.0 | 6.0 | 245.00 |  |  | 20.15 | 12,403 |  | 1,020 |  | 13,074 | 10,858 | 1,022 | 12,403 |  | 1,020 | 13,016 | 10,858 | 1,022 |
| 7/15/2011 | TRUE | true | FALSE | 3.83 | 7.48 | 5.97 | 64\% | 51\% | 80\% |  | 1.25 | 6.0 | 6.0 | 238.00 | 150.00 | 0.63 |  | 11,850 | 7,468 |  |  | 13,049 | 10,365 | 1,022 | 11,850 | 7,468 |  | 12,990 | 10,365 | 1,022 |
| 7/16/2011 | True | True | FALSE | 3.50 | 7.71 | 5.76 | 63\% | 47\% | 75\% |  | 1.34 | 6.0 | 6.0 |  |  |  |  |  |  |  |  | 13,049 | 10,365 | 1,022 |  |  |  | 12,990 | 10,365 | 1,022 |
| $7 / 17 / 2011$ $7 / 18 / 2011$ | TRUE TRUE | ${ }_{\text {TRUE }}^{\text {TRUE }}$ | ${ }_{\text {FALLSE }}$ | 3.50 3.45 | 7.40 7.30 | 5.75 6.06 | 61\% $57 \%$ | $47 \%$ $47 \%$ | 78\% |  | 1.29 1.20 | 6.0 6.0 | 6.0 6.0 | 246.00 |  |  |  | 12,433 |  |  |  | 12,978 12,990 | 10,365 10,248 | 993 |  |  |  | $12,916$ | $\begin{aligned} & 10,365 \\ & 10208 \end{aligned}$ | 993 993 |
| 7/19/2011 | TRUE | TRUE | FALSE | 3.5 3.60 | 7.60 7.60 | 6. <br> 6.06 | 59\% | 47\% | 830\% |  | 1.25 | 6.0 | 6.0 | 275.00 | 222.00 | 0.81 |  | 13,899 | 11,220 |  |  | 13,947 | 10,370 | 993 | 13,899 | 11,220 |  | 112,988 | 10,370 | 993 |
| 7/20/2011 | true | true | FALSE | 3.60 | 7.40 | 5.98 | 60\% | 49\% | 81\% |  | 1.24 | 6.0 | 6.0 |  |  |  |  |  |  |  |  | 13,047 | 10,370 | 993 |  |  |  | 12,988 | 10,370 | 993 |
| 7/21/2011 | true | true | FALSE | 3.50 | 7.60 | 6.01 | 58\% | 46\% | 79\% |  | 1.26 | 6.0 | 6.0 | 231.00 |  |  | 20.39 | 11,579 |  | 1,022 |  | 12,830 | 10,370 | 966 | 11,579 |  | 1,022 | 12,771 | 10,370 | 966 |
| 7/22/2011 | true | true | FALSE | 3.33 | 8.89 | 5.93 | 56\% | 37\% | 67\% |  | 1.50 | 6.0 | 5.9 | 254.00 | 224.00 | 0.88 |  | 12,562 | 11,078 |  |  | 12,858 | 10,316 | 966 | 12,562 | 11,078 |  | 12,799 | 10,316 | 966 |
| 7/23/2011 | true | TRUE | FALSE | 3.30 | 8.80 | 5.70 | 58\% | 38\% | 65\% |  | 1.54 | 6.0 | 5.9 |  |  |  |  |  |  |  |  | 12,858 | 10,316 | 966 |  |  |  | 12,799 | 10,316 | 966 |
| 7/24/2011 | true | true | FALSE | 3.50 | 7.60 | 5.70 | 61\% | 46\% | 75\% |  | 1.33 | 6.0 | 5.9 |  |  |  |  |  |  |  |  | 12,876 | 10,316 | 966 |  |  |  | 12,813 | 10,316 | 966 |
| 7/25/2011 | true | true | FALSE | 3.31 | 8.64 | 6.00 | 55\% | 38\% | 69\% |  | 1.44 | 6.0 | 5.9 | 211.00 |  |  |  | 10,558 |  |  |  | 12,780 | 10,316 | 966 | 10,558 |  |  | 12,780 | 10,316 | 966 |
| 7/26/2011 | true | true | FALSE | 3.30 | 8.30 | 5.96 | 55\% | 40\% | 72\% |  | 1.39 | 6.0 | 5.9 | 253.00 | 146.00 | 0.58 |  | 12,576 | 7,257 |  |  | 12,767 | 9,976 | 966 | 12,576 | 7,257 |  | 12,767 | 9,976 | 966 |
| 7/27/2011 | TRUE | true | FALSE | 3.58 | 7.38 | 6.00 | 60\% | 49\% | 81\% |  | 1.23 | 6.0 | 5.9 | 243.00 |  |  |  | 12,160 |  |  |  | 12,731 | 9,976 | 966 | 12,160 |  |  | 12,731 | 9,976 | 966 |
| 7/28/2011 | true | true | FALSE | 3.55 | 7.30 | 5.99 | 59\% | 49\% | 82\% |  | 1.22 | 6.0 | 5.9 |  |  |  | 18.14 |  |  | 906 |  | 12,781 | 9,976 | 954 |  |  | 906 | 12,781 | 9,976 | 954 |


| Date | $\begin{gathered} \text { Butte } \\ \text { Break? } \end{gathered}$ | $\underset{\text { Break? }}{\text { csu }}$ | Precip? | $\begin{gathered} \text { Min } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | $\begin{gathered} \text { Max } \\ \text { Influent } \\ \text { Flow, } \text { mgd } \end{gathered}$ | $\begin{gathered} \text { Avg } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | $\begin{aligned} & \text { Min \% of } \\ & \text { Avg } \end{aligned}$ | $\underset{\text { Max }}{\operatorname{Min}_{\text {max }}}$ | Avg \% of Max | $\begin{aligned} & \text { Flow } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | $\begin{aligned} & \text { Diurnal } \\ & \text { Peak } \\ & \text { Factor } \\ & \text { (DPF) } \end{aligned}$ | 30-d Avg of Avg Flow, mgd | 7-d Avg of Avg Flow, mgd | Influent TSS Conc., mg/L | $\begin{aligned} & \text { Inifluent } \\ & \text { BoD } \\ & \text { Conc., } \\ & \mathrm{mg} / \mathrm{L} \end{aligned}$ | $\begin{gathered} \text { BOD/TSS } \\ \text { Ratio } \end{gathered}$ | Influent NH3-N Conc., mg/L | Avg linf TSS Load, ppd | Avg Inf BOD Load, ppd | Avg Inf NH3 Load, ppd | $\begin{aligned} & \text { Load } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | 30-d Avg of TSS Load, ppd | 30-d Avg of BOD Load, ppd | 30-d Avg of NH3-N Load, ppd | non-SN TSS Load, ppc | non-SN BOD Load, ppd | non-SN NH3 Load, ppd | $\begin{gathered} \text { 30-d Avg } \\ \text { of non-SN } \\ \text { TSS Load, } \\ \text { ppd } \end{gathered}$ | 30-d Avg <br> of non-SN BOD Load, <br> ppd | 30-d Avg of non-SN NH3-N Load, ppc |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 7/29/2011 | TRUE | TRUE | FALSE | 3.60 | 7.70 | 5.95 | 61\% | 47\% | 77\% |  | 1.29 | 6.0 | 5.9 | 272.00 | 204.00 | 0.75 |  | 13,497 | 10,123 |  |  | 12,511 | ${ }^{9,712}$ | 954 | 13,497 | 10,123 |  | 12,511 | 9,712 | 954 |
| 7/30/2011 | TRUE | TRUE | FALSE | 3.70 | 7.70 | 5.76 | 64\% | 48\% | 75\% |  | 1.34 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 12,511 | 9,712 | 954 |  |  |  | 12,511 | 9,712 | 954 |
| 7/31/2011 | TRUE | true | FALSE | 3.29 | 8.86 | 5.77 | 57\% | 37\% | 65\% |  | 1.54 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 12,393 | 9,433 | 954 |  |  |  | 12,393 | 9,433 | 954 |
| 8/1/2011 | TRUE | TRUE | FALSE | 3.36 | 9.04 | 6.02 | 56\% | 37\% | 67\% |  | 1.50 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 12,493 | 9,433 | 956 |  |  |  | 12,493 | 9,433 | 956 |
| 8/2/2011 | TRUE | TRUE | FALSE | 3.33 | 8.70 | 6.04 | 55\% | 38\% | 69\% |  | 1.44 | 5.9 | 5.9 | 244.00 | 189.00 | 0.77 |  | 12,291 | 9,521 |  |  | 12,480 | 9,443 | 956 | 12,291 | 9,521 |  | 12,480 | 9,443 | 956 |
| 8/3/2011 | true | True | FALSE | 3.37 | 8.61 | 6.01 | 56\% | 39\% | 70\% |  | 1.43 | 6.0 | 5.9 |  |  |  |  |  |  |  |  | 12,480 | 9,443 | 956 |  |  |  | 12,480 | 9,443 | 956 |
| 8/4/2011 | TRUE | true | FALSE | 3.38 | 8.86 | 6.07 | 56\% | 38\% | 69\% |  | 1.46 | 6.0 | 6.0 | 202.00 |  |  | 20.17 | 10,226 |  | 1,021 |  | 12,339 | 9,443 | 969 | 10,226 |  | 1,021 | 12,339 | 9,443 | 969 |
| 8/5/2011 | TRUE | TRUE | FALSE | 3.61 | 7.58 | 5.98 | 60\% | 48\% | 79\% |  | 1.27 | 6.0 | 6.0 | 298.00 |  |  |  | 14,862 |  |  |  | 12,500 | 9,594 | 969 | 14,862 |  |  | 12,500 | 9,594 | 969 |
| 8/6/2011 | TRUE | true | FALSE | 3.70 | 7.83 | 5.86 | 63\% | 47\% | 75\% |  | 1.34 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 12,500 | 9,594 | 969 |  |  |  | 12,500 | 9,594 | 969 |
| 8/7/2011 | TRUE | true | FALSE | 3.70 | 7.60 | 5.81 | 64\% | 49\% | 76\% |  | 1.31 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 12,492 | 9,594 | 992 |  |  |  | 12,492 | 9,594 | 992 |
| 8/8/2011 | TRUE | TRUE | FALSE | 3.60 | 7.50 | 6.09 | 59\% | 48\% | 81\% |  | 1.23 | 5.9 | 6.0 |  |  |  |  |  |  |  |  | 12,630 | 9,617 | 992 |  |  |  | 12,630 | 9,617 | 992 |
| 8/9/2011 | TRUE | true | FALSE | 3.60 | 8.90 | 6.23 | 58\% | 40\% | 70\% |  | 1.43 | 6.0 | 6.0 | 232.00 |  |  |  | 12,054 |  |  |  | 12,592 | 9,617 | 992 | 12,054 |  |  | 12,592 | 9,617 | 992 |
| 8/10/2011 | TRUE | TRUE | FALSE | 3.60 | 7.80 | 6.10 | 59\% | 46\% | 78\% |  | 1.28 | 6.0 | 6.0 | 300.00 |  |  |  | 15,262 |  |  |  | 12,759 | 9,617 | 992 | 15,262 |  |  | 12,759 | 9,617 | 992 |
| 8/11/2011 | TRUE | true | FALSE | 3.40 | 7.70 | 6.11 | 56\% | 44\% | 79\% |  | 1.26 | 6.0 | 6.0 | 2221.00 |  |  | 19.09 | 11,262 |  | 973 |  | 12,671 | 9,617 | 988 | 11,262 |  | 973 | 12,671 | 9,617 | 988 |
| 8/12/2011 | TRUE | true | FALSE | 3.35 | 8.96 | 6.03 | 56\% | 37\% | 67\% |  | 1.49 | 6.0 | 6.0 | 303.00 | 206.00 | 0.68 |  | 15,238 | 10,360 |  |  | 12,630 | 9,575 | 988 | 15,238 | 10,360 |  | 12,630 | 9,575 | 988 |
| 8/13/2011 | TRUE | true | FALSE | 3.39 | 9.30 | 5.95 | 57\% | 36\% | 64\% |  | 1.56 | 6.0 | 6.0 |  |  |  |  |  |  |  |  | 12,630 | 9,575 | 988 |  |  |  | 12,630 | 9,575 | 988 |
| 8/14/2011 | TRUE | true | FALSE | 3.70 | 9.20 | 6.12 | 60\% | 40\% | 67\% |  | 1.50 | 6.0 | 6.1 |  |  |  |  |  |  |  |  | 12,644 | 9,575 | 981 |  |  |  | 12,644 | 9,575 | 981 |
| 8/15/2011 | true | true | FALSE | 3.30 | 9.20 | 6.29 | 52\% | 36\% | 68\% |  | 1.46 | 6.0 | 6.1 |  |  |  |  |  |  |  |  | 12,697 | 9,926 | 981 |  |  |  | 12,697 | 9,926 | 981 |
| 8/16/2011 | TRUE | true | FALSE | 3.40 | 9.22 | 6.49 | 52\% | 37\% | 70\% |  | 1.42 | 6.0 | 6.2 | 309.00 |  |  |  | 16,725 |  |  |  | 12,949 | 9,926 | 981 | 16,725 |  |  | 12,949 | 9,926 | 981 |
| 8/17/2011 | TRUE | true | FALSE | 5.30 | 7.95 | 6.53 | 81\% | 67\% | 82\% | inAvgMinM | 1.22 | 6.0 | 6.2 | 199.00 |  |  |  | 10,838 |  |  |  | 12,825 | 9,926 | 981 | 10,838 |  |  | 12,825 | 9,926 | 981 |
| 8/18/2011 | true | TRUE | FALSE | 4.01 | 7.88 | 6.64 | 60\% | 51\% | 84\% |  | 1.19 | 6.0 | 6.2 | 200.00 |  |  | 18.79 | 11,076 |  | 1,041 |  | 12,745 | 9,926 | 993 | 11,076 |  | 1,041 | 12,745 | 9,926 | 993 |
| 8/19/2011 | TRUE | TRUE | FALSE | 3.80 | 8.40 | 6.68 | 57\% | 45\% | 80\% |  | 1.26 | 6.0 | 6.3 | 184.00 | 170.00 | 0.92 |  | 10,251 | 9,471 |  |  | 12,530 | 9,635 | 993 | 10,251 | 9,471 |  | 12,530 | 9,635 | 993 |
| 8/20/2011 | TRUE | TRUE | FALSE | 3.70 | 8.60 | 6.51 | 57\% | 43\% | 76\% |  | 1.32 | 6.1 | 6.4 |  |  |  |  |  |  |  |  | 12,530 | 9,635 | 993 |  |  |  | 12,530 | 9,635 | 993 |
| 8/21/2011 | TRUE | TRUE | FALSE | 3.38 | 10.58 | 6.68 | 51\% | 32\% | 63\% |  | 1.58 | 6.1 | 6.5 |  |  |  |  |  |  |  |  | 12,590 | 9,635 | 985 |  |  |  | 12,590 | 9,635 | 985 |
| 8/22/2011 | TRUE | TRUE | FALSE | 3.40 | 10.50 | 6.78 | 50\% | 32\% | 65\% |  | 1.55 | 6.1 | 6.6 | 210.00 |  |  |  | 11,874 |  |  |  | 12,547 | 9,346 | 985 | 11,874 |  |  | 12,547 | 9,346 | 985 |
| 8/23/2011 | FALSE | FALSE | FALSE | 3.42 | 10.35 | 6.68 | 51\% | 33\% | 65\% |  | 1.55 | 6.1 | 6.6 | 247.00 | 180.00 | 0.73 |  | 13,761 | 10,028 |  |  | 12,618 | 9,460 | 985 | 13,761 | 10,028 |  | 12,618 | 9,460 | 985 |
| 8/24/2011 | FALSE | FALSE | FALSE | 3.36 | 10.55 | 6.74 | 50\% | 32\% | 64\% |  | 1.57 | 6.2 | 6.7 |  |  |  |  |  |  |  |  | 12,618 | 9,460 | 985 |  |  |  | 12,618 | 9,460 | 985 |
| 8/25/2011 | FALSE | FALSE | FALSE | 3.46 | 10.31 | 6.72 | 51\% | 34\% | 65\% |  | 1.53 | 6.2 | 6.7 | 262.00 |  |  | 18.16 | 14,684 |  | 1,018 |  | 12,861 | 9,460 | 992 | 14,684 |  | 1,018 | 12,861 | 9,460 | 992 |
| 8/26/2011 | FALSE | FALSE | FALSE | 3.94 | 9.03 | 6.76 | 58\% | 44\% | 75\% |  | 1.34 | 6.2 | 6.7 | 232.00 | 203.00 | 0.88 |  | 13,080 | 11,445 |  |  | 12,891 | 10,158 | 992 | 13,080 | 11,445 |  | 12,891 | 10,158 | 992 |
| 8/27/2011 | FALSE | FALSE | FALSE | 4.00 | 8.57 | 6.58 | 61\% | 47\% | 77\% |  | 1.30 | 6.2 | 6.7 |  |  |  |  |  |  |  |  | 12,936 | 10,158 | 992 |  |  |  | 12,936 | 10,158 | 992 |
| 8/28/2011 | FALSE | FALSE | FALSE | 3.80 | 8.60 | 6.60 | 58\% | 44\% | 77\% |  | 1.30 | 6.3 | 6.7 |  |  |  |  |  |  |  |  | 12,936 | 10,158 | 1,013 |  |  |  | 12,936 | 10,158 | 1,013 |
| 8/29/2011 | FALSE | FALSE | FALSE | 3.80 | 8.50 | 6.69 | 57\% | 45\% | 79\% |  | 1.27 | 6.3 | 6.7 | 236.00 |  |  |  | 13,168 |  |  |  | 12,916 | 10,165 | 1,013 | 13,168 |  |  | 12,916 | 10,165 | 1,013 |
| 8/30/2011 | FALSE | FALSE | FALSE | 3.70 | 8.90 | 6.72 | 55\% | 42\% | 76\% |  | 1.32 | 6.3 | 6.7 | 241.00 | 169.00 | 0.70 |  | 13,507 | 9,472 |  |  | 12,950 | 10,049 | 1,013 | 13,507 | 9,472 |  | 12,950 | 10,049 | 1,013 |
| 8/31/2011 | FALSE | FALSE | FALSE | 3.80 | 8.90 | 6.74 | 56\% | 43\% | 76\% |  | 1.32 | 6.4 | 6.7 |  |  |  |  |  |  |  |  | 12,950 | 10,049 | 1,013 |  |  |  | 12,950 | 10,049 | 1,013 |
| 9/1/2011 | FALSE | FALSE | FALSE | 3.80 | 8.90 | 6.76 | 56\% | 43\% | 76\% |  | 1.32 | 6.4 | 6.7 | 213.00 |  |  | 20.60 | 12,009 |  | 1,161 |  | 12,898 | 10,049 | 1,043 | 12,009 |  | 1,161 | 12,898 | 10,049 | 1,043 |
| 9/2/2011 | FALSE | FALSE | FALSE | 3.40 | 9.60 | 6.65 | 51\% | 35\% | 69\% |  | 1.44 | 6.4 | 6.7 | 234.00 | 193.00 | 0.82 |  | 12,978 | 10,704 |  |  | 12,936 | 10,247 | 1,043 | 12,978 | 10,704 |  | 12,936 | 10,247 | 1,043 |
| 9/3/2011 | FALSE | FALSE | FALSE | 3.40 | 9.85 | 6.40 | 53\% | 35\% | 65\% |  | 1.54 | 6.4 | 6.6 |  |  |  |  |  |  |  |  | 12,936 | 10,247 | 1,043 |  |  |  | 12,936 | 10,247 | 1,043 |
| 9/4/2011 | FALSE | FALSE | FALSE | 3.40 | 9.43 | 6.29 | 54\% | 36\% | 67\% |  | 1.50 | 6.4 | 6.6 |  |  |  |  |  |  |  |  | 13,096 | 10,247 | 1,048 |  |  |  | 13,096 | 10,247 | 1,048 |
| 9/5/2011 | FALSE | FALSE | FALSE | 3.62 | 9.01 | 6.65 | 54\% | 40\% | 74\% |  | 1.35 | 6.4 | 6.6 |  |  |  |  |  |  |  |  | 12,985 | 10,247 | 1,048 |  |  |  | 12,985 | 10,247 | 1,048 |
| 9/6/2011 | FALSE | FALSE | FALSE | 3.62 | 9.04 | 6.72 | 54\% | 40\% | 74\% |  | 1.35 | 6.5 | 6.6 | 213.00 | 179.00 | 0.84 |  | 11,938 | 10,032 |  |  | 12,924 | 10,216 | 1,048 | 11,938 | 10,032 |  | 12,924 | 10,216 | 1,048 |
| 9/7/2011 | FALSE | FALSE | FALSE | 3.66 | 8.98 | 6.74 | 54\% | 41\% | 75\% |  | 1.33 | 6.5 | 6.6 | 188.00 |  |  |  | 10,568 |  |  |  | 12,793 | 10,216 | 1,048 | 10,568 |  |  | 12,793 | 10,216 | 1,048 |
| 9/8/2011 | FALSE | FALSE | FALSE | 3.67 | 8.91 | 6.72 | 55\% | 41\% | 75\% |  | 1.33 | 6.5 | 6.6 |  |  |  |  |  |  |  |  | 12,793 | 10,216 | 1,048 |  |  |  | 12,793 | 10,216 | 1,048 |
| 9/9/2011 | FALSE | FALSE | FALSE | 3.70 | 8.90 | 6.73 | 55\% | 42\% | 76\% |  | 1.32 | 6.5 | 6.6 | 219.00 |  |  | 21.03 | 12,292 |  | 1,180 |  | 12,806 | 10,216 | 1,075 | 12,292 |  | 1,180 | 12,806 | 10,216 | 1,075 |
| 9/10/2011 | FALSE | FALSE | FALSE | 3.73 | 8.62 | 6.46 | 58\% | 43\% | 75\% |  | 1.33 | 6.6 | 6.6 |  |  |  |  |  |  |  |  | 12,661 | 10,216 | 1,075 |  |  |  | 12,661 | 10,216 | 1,075 |
| 9/11/2011 | FALSE | FALSE | FALSE | 3.36 | 10.01 | 6.61 | 51\% | 34\% | 66\% |  | 1.51 | 6.6 | 6.6 |  |  |  |  |  |  |  |  | 12,749 | 10,216 | 1,100 |  |  |  | 12,749 | 10,216 | 1,100 |
| 9/12/2011 | FALSE | FALSE | FALSE | 3.40 | 9.68 | 7.03 | 48\% | 35\% | 73\% |  | 1.38 | 6.6 | 6.7 | 204.00 |  |  |  | 11,961 |  |  |  | 12,544 | 10,192 | 1,100 | 11,961 |  |  | 12,544 | 10,192 | 1,100 |
| 9/13/2011 | FALSE | FALSE | FALSE | 3.70 | 9.00 | 6.44 | 57\% | 41\% | 72\% |  | 1.40 | 6.6 | 6.7 | 238.00 | 180.00 | 0.76 |  | 12,783 | 9,668 |  |  | 12,558 | 10,117 | 1,100 | 12,783 | 9,668 |  | 12,558 | 10,117 | 1,100 |
| 9/14/2011 | FALSE | FALSE | FALSE | 3.70 | 9.30 | 6.82 | 54\% | 40\% | 73\% |  | 1.36 | 6.6 | 6.7 |  |  |  |  |  |  |  |  | 12,558 | 10,117 | 1,100 |  |  |  | 12,558 | 10,117 | 1,100 |
| 9/15/2011 | FALSE | FALSE | FALSE | 3.36 | 9.90 | 6.75 | 50\% | 34\% | 68\% |  | 1.47 | 6.7 | 6.7 |  |  |  | 19.75 |  |  | 1,112 |  | 12,558 | 10,117 | 1,102 |  |  | 1,112 | 12,558 | 10,117 | 1,102 |
| 9/16/2011 | FALSE | FALSE | FALSE | 3.75 | 8.93 | 6.79 | 55\% | 42\% | 76\% |  | 1.32 | 6.7 | 6.7 | 198.00 | 181.00 | 0.91 |  | 11,212 | 10,250 |  |  | 12,234 | 10,134 | 1,102 | 11,212 | 10,250 |  | 12,234 | 10,134 | 1,102 |
| 9/17/2011 | FALSE | FALSE | FALSE | 3.71 | 8.59 | 6.42 | 58\% | 43\% | 75\% |  | 1.34 | 6.7 | 6.7 |  |  |  |  |  |  |  |  | 12,321 | 10,134 | 1,102 |  |  |  | 12,321 | 10,134 | 1,102 |
| 9/18/2011 | FALSE | FALSE | FALSE | 3.54 | 8.74 | 6.54 | 54\% | 41\% | 75\% |  | 1.34 | 6.7 | 6.7 |  |  |  |  |  |  |  |  | 12,404 | 10,134 | 1,118 |  |  |  | 12,404 | 10,134 | 1,118 |
| 9/19/2011 | FALSE | FALSE | FALSE | 3.69 | 8.95 | 6.73 | 55\% | 41\% | 75\% |  | 1.33 | 6.7 | 6.7 | 192.00 |  |  |  | 10,777 |  |  |  | 12,439 | 10,228 | 1,118 | 10,777 |  |  | 12,439 | 10,228 | 1,118 |
| 9/20/2011 | FALSE | FALSE | FALSE | 3.71 | 9.05 | 6.69 | 55\% | 41\% | 74\% |  | 1.35 | 6.7 | 6.6 | 202.00 | 170.00 | 0.84 |  | 11,271 | 9,885 |  |  | 12,366 | 10,135 | 1,118 | 11,271 | 9,885 |  | 12,366 | 10,135 | 1,118 |
| 9/21/2011 | FALSE | FALSE | FALSE | 3.70 | 9.00 | 6.70 | 55\% | 41\% | 74\% |  | 1.34 | 6.7 | 6.7 |  |  |  |  |  |  |  |  | 12,366 | 10,135 | 1,118 |  |  |  | 12,366 | 10,135 | 1,118 |
| 9/22/2011 | FALSE | FALSE | FALSE | 3.50 | 8.90 | 6.74 | 52\% | 39\% | 76\% |  | 1.32 | 6.7 | 6.7 | 248.00 |  |  | 20.42 | 13,940 |  | 1,148 |  | 12,495 | 10,135 | 1,124 | 13,940 |  | 1,148 | 12,495 | 10,135 | 1,124 |
| 9/23/2011 | FALSE | FALSE | FALSE | 3.37 | 9.57 | 6.57 | 51\% | 35\% | 69\% |  | 1.46 | 6.7 | 6.6 |  |  |  |  |  |  |  |  | 12,411 | 10,151 | 1,124 |  |  |  | 12,411 | 10,151 | 1,124 |
| 9/24/2011 | FALSE | FALSE | FALSE | 3.35 | 9.38 | 6.39 | 52\% | 36\% | 68\% |  | 1.47 | 6.7 | 6.6 |  |  |  |  |  |  |  |  | 12,411 | 10,151 | 1,124 |  |  |  | 12,411 | 10,151 | 1,124 |
| 9/25/2011 | FALSE | FALSE | ${ }_{\text {TRUE }}^{\text {TRAISE }}$ | 3.80 <br> 3.5 | 8.60 | 6.54 | 55\% | 44\% | 76\% |  | 1.31 | ${ }^{6.6}$ | ${ }_{6}^{6.6}$ |  |  |  |  |  |  |  |  | 12,249 | 10,151 | 1,150 |  |  |  | 12,249 | 10,151 | 1,150 1,150 |
| 9/26/2011 | FALSE | FALSE | FALSE | 3.75 | 8.48 | 6.72 | 56\% | 44\% | 79\% |  | 1.26 | 6.6 | 6.6 | 236.00 |  |  |  | 13,227 |  |  |  | 12,259 | 9,935 | 1,150 | 13,227 |  |  | 12,259 | 9,935 | 1,150 |
| 9/27/2011 | FALSE | FALSE | ${ }^{\text {FALSE }}$ | 3.84 3.89 | 8.62 833 | 6.75 | 57\% | 45\% | 78\% |  | 1.28 | 6.6 | ${ }_{6}^{6.6}$ | 198.00 | 170.00 | 0.86 |  | 11,146 | 9,570 |  |  | 12,185 | 9,883 | 1,150 | 11,146 | 9,570 |  | 12,185 | 9,883 | 1,150 1,150 |
| 9/28/2011 | FALSE | FALSE | FALSE | 3.89 | 8.33 | 6.72 | 58\% | 47\% | 81\% |  | 1.24 | 6.7 | 6.6 |  |  |  |  |  |  |  |  | 12,185 | 9,883 | 1,150 |  |  |  | 12,185 | 9,883 | 1,150 |
| 9/29/2011 | FALSE | FALSE | FALSE | 3.90 | 8.30 | 6.83 | 57\% | 47\% | 82\% |  | 1.22 | 6.7 | 6.7 | 227.00 |  |  | 21.57 | 12,930 |  | 1,229 |  | 12,169 | 9,883 | 1,166 | 12,930 |  | 1,229 | 12,169 | 9,883 | 1,166 |


| Date | $\begin{aligned} & \text { Butte } \\ & \text { Break? } \end{aligned}$ | $\underset{\text { Break? }}{\substack{\text { CSU } \\ \hline}}$ | Precip? | $\min _{\substack{\text { Influent } \\ \text { Flow, mgd }}}$ |  | Avg Flow, mgd | $\begin{aligned} & \text { Min \% of } \\ & \text { Avg } \end{aligned}$ | $\begin{gathered} \operatorname{Min}_{\substack{2}} \text { of } \end{gathered}$ | $\begin{aligned} & \text { Avg \% of } \\ & \text { Max } \end{aligned}$ | $\begin{aligned} & \text { Flow } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | $\begin{aligned} & \text { Diurnal } \\ & \text { Peak } \\ & \text { Factor } \\ & \text { (DPF) } \end{aligned}$ | 30-d Avg of Avg Flow, mgd | 7-d Avg of Avg Flow, mgd | Influent TSS Conc., mg/L | $\begin{aligned} & \text { Influent } \\ & \text { BoD } \\ & \text { Conc., } \\ & \mathrm{mg} / \mathrm{L} \end{aligned}$ | BOD/TSS Ratio | Influent NH3-N Conc., mg/L | Avg $\operatorname{lnf}$ TSS Load, ppd | Avg Inf BOD Load, ppd | Avg $\operatorname{lnf}$ NH3 Load, ppd | $\begin{gathered} \text { Load } \\ \text { Outlier } \\ \text { Type } \end{gathered}$ | 30-d Avg of TSS Load, ppd | 30-d Avg of BOD Load, ppd | 30-d Avg of NH3-N Load, ppd | non-SN TSS Load, ppd | non-SN ppd | non-SN NH3 Load, ppd | $\begin{gathered} \text { 30-d Avg } \\ \text { of non-SN } \\ \text { TSS Load, } \\ \text { ppd } \end{gathered}$ | $\begin{gathered} \text { 30-d Avg } \\ \text { of non-SN } \\ \text { BOD Load, } \\ \text { ppd } \end{gathered}$ | $\begin{aligned} & \text { 30-d Avg } \\ & \text { of non-SN } \\ & \text { NH3-N } \\ & \text { Load, ppd } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 9/30/2011 | FALSE | FALSE | FALSE | 3.80 | 8.40 | 6.71 | 57\% | 45\% | 80\% |  | 1.25 | 6.7 | 6.7 | 183.00 | 184.00 | 1.01 |  | 10,241 | 10,297 |  |  | 11,951 | 10,001 | 1,166 | 10,241 | 10,297 |  | 11,951 | 10,001 | 1,166 |
| 10/1/2011 | FALSE | FALSE | FALSE | 3.50 | 8.30 | 6.48 | 54\% | 42\% | 78\% |  | 1.28 | 6.6 | 6.6 |  |  |  |  |  |  |  |  | 11,951 | 10,001 | 1,166 |  |  |  | 11,951 | 10,001 | 1,166 |
| 10/2/2011 | FALSE | FALSE | false | 3.37 | 9.98 | 6.59 | 51\% | 34\% | 66\% |  | 1.51 | 6.6 | 6.7 |  |  |  |  |  |  |  |  | 11,947 | 10,001 | 1,167 |  |  |  | 11,947 | 10,001 | 1,167 |
| 10/3/2011 | false | FALSE | TRUE | 3.35 | 9.77 | 6.82 | 49\% | 34\% | 70\% |  | 1.43 | 6.6 | 6.7 | 215.00 |  |  |  | 12,229 |  |  |  | 11,894 | 9,884 | 1,167 | 12,229 |  |  | 11,894 | 9,884 | 1,167 |
| 10/4/2011 | false | FALSE | TRUE | 3.43 | 10.15 | 7.20 | 48\% | 34\% | 71\% |  | 1.41 | 6.7 | 6.8 | 218.00 | 177.00 | 0.81 |  | 13,090 | 10,628 |  |  | 11,974 | 9,990 | 1,167 | 13,990 | 10,628 |  | 11,974 | 9,990 | 1,167 |
| 10/5/2011 | false | False | TRUE | 3.69 | 11.67 | 7.92 | 47\% | 32\% | 68\% |  | 1.47 | 6.7 | 6.9 |  |  |  |  |  |  |  |  | 11,974 | 9,990 | 1,167 |  |  |  | 11,974 | 9,990 | 1,167 |
| 10/6/2011 | false | FALSE | true | 3.79 | 11.48 | 8.11 | 47\% | 33\% | 71\% |  | 1.42 | 6.8 | 7.1 | 223.00 |  |  | 12.44 | 15,083 |  | 841 |  | 12,168 | 9,990 | 1,102 | 15,083 |  | 841 | 12,168 | 9,990 | 1,102 |
| 10/7/2011 | FALSE | FALSE | FALSE | 4.14 | 10.03 | 7.42 | 56\% | 41\% | 74\% |  | 1.35 | 6.8 | 7.2 | 200.00 | 168.00 | 0.84 |  | 12,377 | 10,396 |  |  | 12,195 | 10,042 | 1,102 | 12,377 | 10,396 |  | 12,195 | 10,042 | 1,102 |
| 10/8/2011 | false | False | false | 4.04 | 9.07 | 6.95 | 58\% | 45\% | 77\% |  | 1.31 | 6.8 | 7.2 |  |  |  |  |  |  |  |  | 12,304 | 10,042 | 1,102 |  |  |  | 12,304 | 10,042 | 1,102 |
| 10/9/2011 | FALSE | FALSE | FALSE | 3.60 | 9.40 | 6.96 | 52\% | 38\% | 74\% |  | 1.35 | 6.8 | 7.2 |  |  |  |  |  |  |  |  | 12,304 | 10,042 | 1,102 |  |  |  | 12,304 | 10,042 | 1,102 |
| 10/10/2011 | FALSE | FALSE | true | 3.94 | 9.74 | 7.87 | 50\% | 40\% | 81\% |  | 1.24 | 6.8 | 7.4 | 189.00 | 180.00 | 0.95 |  | 12,405 | 11,814 |  |  | 12,311 | 10,264 | 1,082 | 12,405 | 11,814 |  | 12,311 | 10,264 | 1,082 |
| 10/11/2011 | FALSE | FALSE | TRUE | 3.80 | 9.50 | 7.65 | 50\% | 40\% | 81\% |  | 1.24 | 6.9 | 7.5 | 218.00 |  |  | 19.41 | 13,909 |  | 1,238 |  | 12,411 | 10,264 | 1,114 | 13,909 |  | 1,238 | 12,411 | 10,264 | 1,114 |
| 10/12/2011 | FALSE | FALSE | false | 3.90 | 9.90 | 7.28 | 54\% | 39\% | 74\% |  | 1.36 | 6.9 | 7.5 |  |  |  |  |  |  |  |  | 12,411 | 10,264 | 1,114 |  |  |  | 12,411 | 10,264 | 1,114 |
| 10/13/2011 | FALSE | FALSE | FALSE | 4.58 | 8.77 | 7.14 | 64\% | 52\% | 81\% |  | 1.23 | 6.9 | 7.4 | 195.00 |  |  |  | 11,612 |  |  |  | 12,389 | 10,264 | 1,114 | 11,612 |  |  | 12,389 | 10,264 | 1,114 |
| 10/14/2011 | FALSE | FALSE | false | 3.47 | 10.15 | 6.92 | 50\% | 34\% | 68\% |  | 1.47 | 6.9 | 7.3 | 217.00 | 207.00 | 0.95 |  | 12,524 | 11,947 |  |  | 12,373 | 10,548 | 1,114 | 12,524 | 11,947 |  | 12,373 | 10,548 | 1,114 |
| 10/15/2011 | FALSE | FALSE | false | 3.43 | 10.00 | 6.70 | 51\% | 34\% | 67\% |  | 1.49 | 6.9 | 7.2 |  |  |  |  |  |  |  |  | 12,373 | 10,548 | 1,114 |  |  |  | 12,373 | 10,548 | 1,114 |
| 10/16/2011 | FALSE | FALSE | false | 3.59 | 9.09 | 6.72 | 53\% | 39\% | 74\% |  | 1.35 | 6.9 | 7.2 |  |  |  |  |  |  |  |  | 12,373 | 10,548 | 1,114 |  |  |  | 12,373 | 10,548 | 1,114 |
| 10/17/2011 | FALSE | FALSE | FALSE | 3.64 | 9.22 | 6.88 | 53\% | 39\% | 75\% |  | 1.34 | 6.9 | 7.1 | 191.00 |  |  |  | 10,959 |  |  |  | 12,357 | 10,591 | 1,114 | 10,959 |  |  | 12,357 | 10,591 | 1,114 |
| 10/18/2011 | FALSE | FALSE | false | 3.70 | 9.06 | 6.85 | 54\% | 41\% | 76\% |  | 1.32 | 6.9 | 7.0 | 204.00 | 178.00 | 0.87 |  | 11,654 | 10,169 |  |  | 12,316 | 10,538 | 1,114 | 11,654 | 10,169 |  | 12,316 | 10,538 | 1,114 |
| 10/19/2011 | FALSE | FALSE | false | 3.70 | 9.04 | 6.76 | 55\% | 41\% | 75\% |  | 1.34 | 6.9 | 6.9 |  |  |  |  |  |  |  |  | 12,316 | 10,538 | 1,114 |  |  |  | 12,316 | 10,538 | 1,114 |
| 10/20/2011 | FALSE | FALSE | false | 3.72 | 9.13 | 6.77 | 55\% | 41\% | 74\% |  | 1.35 | 6.9 | 6.8 |  |  |  | 22.16 |  |  | 1,251 |  | 12,412 | 10,538 | 1,141 |  |  | 1,251 | 12,412 | 10,538 | 1,141 |
| 10/21/2011 | FALSE | FALSE | FALSE | 3.60 | 8.30 | 6.74 | 53\% | 43\% | 81\% |  | 1.23 | 6.9 | 6.8 | 229.00 |  |  |  | 12,872 |  |  |  | 12,512 | 10,689 | 1,141 | 12,872 |  |  | 12,512 | 10,689 | 1,141 |
| 10/22/2011 | FALSE | FALSE | false | 3.70 | 8.90 | 6.52 | 57\% | 42\% | 73\% |  | 1.37 | 6.9 | 6.7 |  |  |  |  |  |  |  |  | 12,512 | 10,689 | 1,141 |  |  |  | 12,512 | 10,689 | 1,141 |
| 10/23/2011 | FALSE | FALSE | FALSE | 3.33 | 9.71 | 6.61 | 50\% | 34\% | 68\% |  | 1.47 | 6.9 | 6.7 |  |  |  |  |  |  |  |  | 12,417 | 10,689 | 1,140 |  |  |  | 12,417 | 10,689 | 1,140 |
| 10/24/2011 | FALSE | FALSE | false | 3.34 | 10.32 | 7.02 | 48\% | 32\% | 68\% |  | 1.47 | 7.0 | 6.8 | 269.00 |  |  |  | 15,749 |  |  |  | 12,625 | 10,689 | 1,140 | 15,749 |  |  | 12,625 | 10,689 | 1,140 |
| 10/25/2011 | FALSE | FALSE | FALSE | 3.41 | 10.03 | 6.80 | 50\% | 34\% | 68\% |  | 1.48 | 7.0 | 6.8 | 234.00 | 174.00 | 0.74 |  | 13,271 | 9,868 |  |  | 12,663 | 10,586 | 1,140 | 13,271 | 9,868 |  | 12,663 | 10,586 | 1,140 |
| 10/26/2011 | FALSE | FALSE | FALSE | 3.29 | 10.34 | 6.76 | 49\% | 32\% | 65\% |  | 1.53 | 7.0 | 6.7 |  |  |  |  |  |  |  |  | 12,663 | 10,586 | 1,140 |  |  |  | 12,663 | 10,586 | 1,140 |
| 10/27/2011 | FALSE | FALSE | FALSE | 3.33 | 9.82 | 6.75 | 49\% | 34\% | 69\% |  | 1.45 | 7.0 | 6.7 | 505.00 |  |  | 22.20 | 28,429 |  | 1,250 | TSS | 12,628 | 10,586 | 1,162 | 28,429 |  | 1,250 | 12,628 | 10,586 | 1,162 |
| 10/28/2011 | FALSE | FALSE | FALSE | 3.65 | 8.93 | 6.79 | 54\% | 41\% | 76\% |  | 1.32 | 7.0 | 6.7 | 235.00 | 224.00 | 0.95 |  | 13,308 | 12,685 |  |  | 12,763 | 10,976 | 1,162 | 13,308 | 12,685 |  | 12,763 | 10,976 | 1,162 |
| 10/29/2011 | false | FALSE | FALSE | 3.67 | 9.38 | 6.71 | 55\% | 39\% | 72\% |  | 1.40 | 7.0 | 6.7 |  |  |  |  |  |  |  |  | 12,763 | 10,976 | 1,162 |  |  |  | 12,763 | 10,976 | 1,162 |
| 10/30/2011 | FALSE | FALSE | FALSE | 3.56 | 8.95 | 6.60 | 54\% | 40\% | 74\% |  | 1.36 | 7.0 | 6.8 |  |  |  |  |  |  |  |  | 12,752 | 10,976 | 1,145 |  |  |  | 12,752 | 10,976 | 1,145 |
| 10/31/2011 | FALSE | FALSE | FALSE | 3.72 | 8.41 | 6.54 | 57\% | 44\% | 78\% |  | 1.29 | 7.0 | 6.7 | 209.00 |  |  |  | 11,400 |  |  |  | 12,829 | 11,072 | 1,145 | 11,400 |  |  | 12,829 | 11,072 | 1,145 |
| 11/1/2011 | false | FALSE | false | 3.54 | 8.62 | 6.59 | 54\% | 41\% | 76\% |  | 1.31 | 7.0 | 6.7 | 271.00 | 238.00 | 0.88 |  | 14,894 | 13,081 |  |  | 12,958 | 11,324 | 1,145 | 14,894 | 13,081 |  | 12,958 | 11,324 | 1,145 |
| 11/2/2011 | FALSE | FALSE | FALSE | 3.79 | 8.84 | 6.77 | 56\% | 43\% | 77\% |  | 1.31 | 7.0 | 6.7 |  |  |  |  |  |  |  |  | 12,958 | 11,324 | 1,145 |  |  |  | 12,958 | 11,324 | 1,145 |
| 11/3/2011 | FALSE | FALSE | true | 3.69 | 8.99 | 6.78 | 54\% | 41\% | 75\% |  | 1.33 | 7.0 | 6.7 |  |  |  | 20.52 |  |  | 1,160 |  | 13,007 | 11,324 | 1,148 |  |  | 1,160 | 13,007 | 11,324 | 1,148 |
| 11/4/2011 | FALSE | FALSE | FALSE | 3.37 | 9.79 | 6.68 | 50\% | 34\% | 68\% |  | 1.47 | 7.0 | 6.7 | 264.00 | 212.00 | 0.80 |  | 14,708 | 11,811 |  |  | 13,115 | 11,471 | 1,148 | 14,708 | 11,811 |  | 13,115 | 11,471 | 1,148 |
| 11/5/2011 | FALSE | FALSE | true | 3.39 | 10.03 | 6.82 | 50\% | 34\% | 68\% |  | 1.47 | 6.9 | 6.7 |  |  |  |  |  |  |  |  | 13,115 | 11,471 | 1,148 |  |  |  | 13,115 | 11,471 | 1,148 |
| 11/6/2011 | FALSE | FALSE | TRUE | 3.81 | 9.27 | 6.82 | 56\% | 41\% | 74\% |  | 1.36 | 6.9 | 6.7 |  |  |  |  |  |  |  |  | 12,974 | 11,471 | 1,225 |  |  |  | 12,974 | 11,471 | 1,225 |
| 11/7/2011 | FALSE | FALSE | FALSE | 3.93 | 8.92 | 6.79 | 58\% | 44\% | 76\% |  | 1.31 | 6.9 | 6.7 | 308.00 |  |  |  | 17,442 |  |  |  | 13,336 | 11,625 | 1,225 | 17,442 |  |  | 13,336 | 11,625 | 1,225 |
| 11/8/2011 | FALSE | FALSE | FALSE | 3.29 | 10.21 | 6.71 | 49\% | 32\% | 66\% |  | 1.52 | 6.8 | 6.7 | 202.00 |  |  |  | 11,304 |  |  |  | 13,201 | 11,625 | 1,225 | 11,304 |  |  | 13,201 | 11,625 | 1,225 |
| 11/9/2011 | FALSE | FALSE | FALSE | 3.39 | 10.43 | 6.70 | 51\% | 33\% | 64\% |  | 1.56 | 6.8 | 6.8 | 186.00 | 180.00 | 0.97 |  | 10,393 | 10,058 |  |  | 13,025 | 11,429 | 1,225 | 10,393 | 10,058 |  | 13,025 | 11,429 | 1,225 |
| 11/10/2011 | FALSE | FALSE | FALSE | 3.32 | 9.63 | 6.62 | 50\% | 34\% | 69\% |  | 1.45 | 6.8 | 6.7 | 228.00 |  |  | 21.32 | 12,588 |  | 1,177 |  | 13,037 | 11,374 | 1,215 | 12,588 |  | 1,177 | 13,037 | 11,374 | 1,215 |
| 11/11/2011 | FALSE | FALSE | FALSE | 3.59 | 9.33 | 6.74 | 53\% | 38\% | 72\% |  | 1.38 | 6.8 | 6.7 |  |  |  |  |  |  |  |  | 12,979 | 11,374 | 1,210 |  |  |  | 12,979 | 11,374 | 1,210 |
| 11/12/2011 | FALSE | FALSE | FALSE | 3.61 | 8.94 | 6.43 | 56\% | 40\% | 72\% |  | 1.39 | 6.7 | 6.7 |  |  |  |  |  |  |  |  | 12,979 | 11,374 | 1,210 |  |  |  | 12,979 | 11,374 | 1,210 |
| 11/13/2011 | FALSE | FALSE | FALSE | 3.37 | 10.10 | 6.61 | 51\% | 33\% | 65\% |  | 1.53 | 6.7 | 6.7 |  |  |  |  |  |  |  |  | 13,076 | 11,374 | 1,210 |  |  |  | 13,076 | 11,374 | 1,210 |
| 11/14/2011 | false | FALSE | false | 3.39 | 9.80 | 6.68 | 51\% | 35\% | 68\% |  | 1.47 | 6.7 | 6.7 | 235.00 |  |  |  | 13,092 |  |  |  | 13,117 | 11,279 | 1,210 | 13,092 |  |  | 13,117 | 11,279 | 1,210 |
| 11/15/2011 | FALSE | FALSE | FALSE | 3.37 | 9.92 | 6.66 | 51\% | 34\% | 67\% |  | 1.49 | 6.7 | 6.6 | 218.00 | 188.00 | 0.86 |  | 12,109 | 10,442 |  |  | 13,050 | 11,159 | 1,210 | 12,109 | 10,442 |  | 13,050 | 11,159 | 1,210 |
| 11/16/2011 | false | FALSE | false | 3.36 | 9.89 | 6.72 | 50\% | 34\% | 68\% |  | 1.47 | 6.7 | 6.6 |  |  |  |  |  |  |  |  | 13,050 | 11,159 | 1,210 |  |  |  | 13,50 | 11,159 | 1,210 |
| 11/17/2011 | FALSE | FALSE | FALSE | 3.35 | 9.54 | 6.72 | 50\% | 35\% | 70\% |  | 1.42 | 6.7 | 6.6 | 210.00 |  |  | 20.85 | 11,769 |  | 1,169 |  | 13,104 | 11,159 | 1,201 | 11,769 |  | 1,169 | 13,104 | 11,159 | 1,201 |
| 11/18/2011 | FALSE | TRUE | FALSE | 3.44 | 6.49 | 6.49 | 53\% | 53\% | 100\% | AvgMax | 1.00 | 6.7 | 6.7 | 221.00 | 220.00 | 1.00 |  | 11,962 | 11,908 |  |  | 13,124 | 11,407 | 1,201 | 11,962 | 11,908 |  | 13,124 | 11,407 | 1,201 |
| 11/19/2011 | FALSE | TRUE | TRUE | 3.43 | 9.70 | 6.39 | 54\% | 35\% | 66\% |  | 1.52 | 6.7 | 6.6 |  |  |  |  |  |  |  |  | 13,124 | 11,407 | 1,201 |  |  |  | 13,124 | 11,407 | 1,201 |
| 11/20/2011 | FALSE | TRUE | TRUE | 3.40 | 9.60 | 6.52 | 52\% | 35\% | 68\% |  | 1.47 | 6.7 | 6.6 |  |  |  |  |  |  |  |  | 13,124 | 11,407 | 1,189 |  |  |  | 13,124 | 11,407 | 1,189 |
| 11/21/2011 | FALSE | TRUE | FALSE | 3.40 | 9.60 | 6.69 | 51\% | 35\% | 70\% |  | 1.43 | 6.7 | 6.6 | 167.00 |  |  | 18.42 | 9,318 |  | 1,028 |  | 12,887 | 11,407 | 1,157 | 9,318 |  | 1,028 | 12,887 | 11,407 | 1,157 |
| 11/22/2011 | FALSE | TRUE | FALSE | 3.90 | 8.80 | 6.63 | 59\% | 44\% | 75\% |  | 1.33 | 6.7 | 6.6 |  |  |  |  |  |  |  |  | 12,887 | 11,407 | 1,157 |  |  |  | 12,887 | 11,407 | 1,157 |
| 11/23/2011 | True | TRUE | TRUE | 4.00 | 8.70 | 6.60 | 61\% | 46\% | 76\% |  | 1.32 | 6.7 | 6.6 | 219.00 | 196.00 | 0.89 |  | 12,055 | 10,789 |  |  | 12,835 | 11,330 | 1,157 | 12,055 | 10,789 |  | 12,835 | 11,330 | 1,157 |
| 11/24/2011 | TRUE | TRUE | TRUE | 4.10 | 9.30 | 6.10 | 67\% | 44\% | 66\% |  | 1.52 | 6.7 | 6.5 |  |  |  |  |  |  |  |  | 12,641 | 11,330 | 1,157 |  |  |  | 12,641 | 11,330 | 1,157 |
| 11/25/2011 | true | TRUE | true | 3.44 | 8.94 | 6.07 | 57\% | 38\% | 68\% |  | 1.47 | 6.6 | 6.4 |  |  |  |  |  |  |  |  | 12,596 | 11,539 | 1,157 |  |  |  | 12,596 | 11,539 | 1,157 |
| 11/26/2011 | TRUE | TRUE | FALSE | 3.44 | 9.60 | 6.14 | 56\% | 36\% | 64\% |  | 1.56 | 6.6 | 6.4 |  |  |  |  |  |  |  |  | 12,596 | 11,539 | 1,157 |  |  |  | 12,596 | 11,539 | 1,157 |
| 11/27/2011 | TRUE | TRUE | TRUE | 3.61 | 8.59 | 6.51 | 55\% | 42\% | 76\% |  | 1.32 | 6.6 | 6.4 |  |  |  |  |  |  |  |  | 12,596 | 11,539 | 1,133 |  |  |  | 12,596 | 11,539 | 1,133 |
| 11/28/2011 | TRUE | TRUE | FALSE | 3.59 | 8.55 | 6.72 | 53\% | 42\% | 79\% |  | 1.27 | 6.6 | 6.4 | 194.00 |  |  |  | 10,873 |  |  |  | 12,422 | 11,348 | 1,133 | 10,873 |  |  | 12,422 | 11,348 | 1,133 |
| 11/29/2011 | false | FALSE | TRUE | 3.75 | 8.68 | 6.66 | 56\% | 43\% | 77\% |  | 1.30 | 6.6 | 6.4 | 235.00 | 216.00 | 0.92 |  | 13,053 | 11,998 |  |  | 12,464 | 11,441 | 1,133 | 13,053 | 11,998 |  | 12,464 | 11,441 | 1,133 |
| 11/30/2011 | FALSE | FALSE | TRUE | 3.55 | 8.94 | 6.79 | 52\% | 40\% | 76\% |  | 1.32 | 6.6 | 6.4 |  |  |  |  |  |  |  |  | 12,464 | 11,441 | 1,133 |  |  |  | 12,464 | 11,441 | 1,133 |
| 12/1/2011 | FALSE | FALSE | FALSE | 3.41 | 9.59 | 6.68 | 51\% | 36\% | 70\% |  | 1.44 | 6.6 | 6.5 | 195.00 |  |  | 25.57 | 10,864 |  | 1,425 |  | 12,428 | 11,441 | 1,192 | 10,864 |  | 1,425 | 12,428 | 11,441 | 1,192 |


| Date | $\begin{aligned} & \text { Butte } \\ & \text { Break? } \end{aligned}$ | $\underset{\text { Break? }}{\text { csu }}$ | Precip? | $\operatorname{Min}_{\substack{\text { Influent } \\ \text { Flow, mgd }}}^{\text {min }}$ | $\begin{gathered} \text { Max } \\ \text { Influent } \\ \text { Flow, } \mathrm{mg} \text { d } \end{gathered}$ |  | $\underset{\text { Min } \% \text { of }}{\substack{\text { Avg }}}$ | $\operatorname{Min}_{\text {Max }} \% \text { of }$ | Avg \% of | $\begin{aligned} & \text { Flow } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | $\begin{aligned} & \text { Diurnal } \\ & \text { Peak } \\ & \text { Factor } \\ & \text { (DPF) } \end{aligned}$ | $\begin{gathered} \text { 30-d Avg } \\ \text { of Avg } \\ \text { Flow, mgd } \end{gathered}$ | 7-d Avg of Avg Flow, mgd | Influent TSS Conc., mg/L | $\begin{gathered} \text { Influent } \\ \text { BoD } \\ \text { Conc., } \\ \mathrm{mg} / \mathrm{L} \end{gathered}$ | $\begin{gathered} \text { BoD/TSS } \\ \text { Ratio } \end{gathered}$ | Influent NH3-N Conc., mg/L | Avg Inf ppd | $\begin{gathered} \text { Avg } \operatorname{lnf} \\ \text { BOD Load, } \\ \text { ppd } \end{gathered}$ | Avg lnf NH3 Load, ppd | $\begin{aligned} & \text { Load } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | 30-d Avg of TSS Load, ppd | 30-d Avg of BOD Load, ppd | 30-d Avg of NH3-N Load, ppd | non-SN TSS Load, ppd | $\begin{gathered} \text { non-SN } \\ \text { BOD Load, } \\ \text { ppd } \end{gathered}$ | non-SN NH3 Load, ppd | 30-d Avg TSS Load, ppd | $\begin{gathered} \text { 30-d Avg } \\ \text { of non-SN } \\ \text { BOD Load, } \\ \text { pod } \end{gathered}$ ppd | $\begin{aligned} & \text { 30-d Avg } \\ & \text { of non-SN } \\ & \text { NH3-N } \\ & \text { Load, ppd } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12/2/2011 | FALSE | FALSE | FALSE | 3.78 | 8.52 | 6.63 | 57\% | 44\% | 78\% |  | 1.29 | 6.6 | 6.5 | 231.00 | 209.00 | 0.90 |  | 12,773 | 11,556 |  |  | 12,287 | 11,223 | 1,192 | 12,773 | 11,556 |  | 12,287 | 11,223 | 1,192 |
| 12/3/2011 | FALSE | false | FALSE | 3.67 | 9.10 | 6.60 | 56\% | 40\% | 73\% |  | 1.38 | 6.6 | 6.6 |  |  |  |  |  |  |  |  | 12,287 | 11,223 | 1,192 |  |  |  | 12,287 | 11,223 | 1,192 |
| 12/4/2011 | FALSE | false | false | 3.34 | 10.10 | 6.65 | 50\% | 33\% | 66\% |  | 1.52 | 6.6 | 6.7 |  |  |  |  |  |  |  |  | 12,287 | 11,223 | 1,199 |  |  |  | 12,287 | 11,223 | 1,199 |
| 12/5/2011 | FALSE | false | false | 3.31 | 9.29 | 6.71 | 49\% | 36\% | 72\% |  | 1.38 | 6.6 | 6.7 | 240.00 |  |  |  | 13,431 |  |  |  | 12,202 | 11,125 | 1,199 | 13,431 |  |  | 12,202 | 11,125 | 1,199 |
| 12/6/2011 | FALSE | false | FALSE | 3.40 | 9.88 | 6.67 | 51\% | 34\% | 68\% |  | 1.48 | 6.6 | 6.7 | 209.00 | 189.00 | 0.90 |  | 11,626 | 10,514 |  |  | 12,166 | 11,038 | 1,199 | 11,626 | 10,514 |  | 12,166 | 11,038 | 1,199 |
| 12/7/2011 | FALSE | false | false | 3.33 | 9.41 | 6.73 | 49\% | 35\% | 72\% |  | 1.40 | 6.6 | 6.7 |  |  |  |  |  |  |  |  | 12,166 | 11,038 | 1,199 |  |  |  | 12,166 | 11,038 | 1,199 |
| 12/8/2011 | FALSE | FALSE | FALSE | 3.33 | 9.77 | 6.73 | 49\% | 34\% | 69\% |  | 1.45 | 6.6 | 6.7 | 202.00 |  |  | 24.19 | 11,338 |  | 1,358 |  | 11,784 | 11,038 | 1,231 | 11,338 |  | 1,358 | 11,784 | 11,038 | 1,231 |
| 12/9/2011 | FALSE | false | false | 4.03 | 8.39 | 7.41 | 54\% | 48\% | 88\% | AvgMax | 1.13 | 6.6 | 6.7 |  |  |  |  |  |  |  |  | 11,816 | 11,038 | 1,231 |  |  |  | 11,816 | 11,038 | 1,231 |
| 12/10/2011 | FALSE | false | false | 3.79 | 8.89 | 5.97 | 63\% | 43\% | 67\% |  | 1.49 | 6.6 | 6.6 |  |  |  |  |  |  |  |  | 11,918 | 11,201 | 1,231 |  |  |  | 11,918 | 11,201 | 1,231 |
| 12/11/2011 | FALSE | false | FALSE | 3.52 | 9.38 | 6.67 | 53\% | 38\% | 71\% |  | 1.41 | 6.6 | 6.6 |  |  |  |  |  |  |  |  | 11,866 | 11,201 | 1,245 |  |  |  | 11,866 | 11,201 | 1,245 |
| 12/12/2011 | FALSE | FALSE | FALSE | 3.66 | 8.58 | 6.73 | 54\% | 43\% | 78\% |  | 1.27 | 6.6 | 6.6 | 202.00 |  |  |  | 11,338 |  |  |  | 11,829 | 11,201 | 1,245 | 11,338 |  |  | 11,829 | 11,201 | 1,245 |
| 12/13/2011 | FALSE | false | FALSE | 3.68 | 8.61 | 6.76 | 54\% | 43\% | 79\% |  | 1.27 | 6.6 | 6.6 | 197.00 | 217.00 | 1.10 |  | 11,107 | 12,234 |  |  | 11,780 | 11,349 | 1,245 | 11,107 | 12,234 |  | 11,780 | 11,349 | 1,245 |
| 12/14/2011 | FALSE | FALSE | FALSE | 3.59 | 8.76 | 6.77 | 53\% | 41\% | 77\% |  | 1.29 | 6.6 | 6.6 |  |  |  |  |  |  |  |  | 11,780 | 11,349 | 1,245 |  |  |  | 11,780 | 11,349 | 1,245 |
| 12/15/2011 | FALSE | false | TRUE | 3.68 | 8.58 | 6.68 | 55\% | 43\% | 78\% |  | 1.28 | 6.6 | 6.6 |  |  |  | 21.29 |  |  | 1,186 |  | 11,687 | 11,349 | 1,233 |  |  | 1,186 | 11,687 | 11,349 | 1,233 |
| 12/16/2011 | true | true | FALSE | 3.32 | 9.63 | 6.59 | 50\% | 34\% | 68\% |  | 1.46 | 6.6 | 6.6 | 230.00 | 245.00 | 1.07 |  | 12,641 | 13,465 |  |  | 11,725 | 11,781 | 1,233 | 12,417 | 13,364 |  | 11,709 | 11,766 | 1,233 |
| 12/17/2011 | true | true | false | 3.33 | 9.89 | 6.39 | 52\% | 34\% | 65\% |  | 1.55 | 6.6 | 6.6 |  |  |  |  |  |  |  |  | 11,725 | 11,781 | 1,233 |  |  |  | 11,709 | 11,766 | 1,233 |
| 12/18/2011 | true | true | FALSE | 3.76 | 8.25 | 6.18 | 61\% | 46\% | 75\% |  | 1.33 | 6.6 | 6.6 |  |  |  |  |  |  |  |  | 11,721 | 11,781 | 1,249 |  |  |  | 11,704 | 11,766 | 1,249 |
| 12/19/2011 | true | true | FALSE | 3.74 | 8.14 | 6.33 | 59\% | 46\% | 78\% |  | 1.29 | 6.5 | 6.6 | 179.00 |  |  |  | 9,450 |  |  |  | 11,528 | 11,759 | 1,249 | 9,450 |  |  | 11,511 | 11,742 | 1,249 |
| 12/20/2011 | True | true | FALSE | 3.75 | 8.02 | 6.21 | 60\% | 47\% | 77\% |  | 1.29 | 6.5 | 6.5 |  |  |  |  |  |  |  |  | 11,528 | 11,759 | 1,249 |  |  |  | 11,511 | 11,742 | 1,249 |
| 12/21/2011 | true | true | FALSE | 3.35 | 8.48 | 5.98 | 56\% | 40\% | 71\% |  | 1.42 | 6.5 | 6.4 | 207.00 |  |  | 22.14 | 10,324 |  | 1,104 |  | 11,442 | 11,759 | 1,220 | 10,324 |  | 1,104 | 11,426 | 11,742 | 1,220 |
| 12/22/2011 | true | true | FALSE | 3.28 | 8.73 | 5.97 | 55\% | 38\% | 68\% |  | 1.46 | 6.5 | 6.3 | 233.00 | 239.00 | 1.03 |  | 11,601 | 11,900 |  |  | 11,605 | 11,779 | 1,268 | 11,601 | 11,900 |  | 11,589 | 11,765 | 1,268 |
| 12/23/2011 | true | true | FALSE | 3.60 | 8.45 | 6.16 | 58\% | 43\% | 73\% |  | 1.37 | 6.5 | 6.2 |  |  |  |  |  |  |  |  | 11,605 | 11,779 | 1,268 |  |  |  | 11,589 | 11,765 | 1,268 |
| 12/24/2011 | true | true | FALSE | 3.58 | 8.34 | 5.77 | 62\% | 43\% | 69\% |  | 1.45 | 6.5 | 6.1 |  |  |  |  |  |  |  |  | 11,571 | 11,944 | 1,268 |  |  |  | 11,553 | 11,928 | 1,268 |
| 12/25/2011 | true | true | FALSE | 3.40 | 6.60 | 5.19 | 66\% | 52\% | 79\% |  | 1.27 | 6.4 | 6.0 |  |  |  |  |  |  |  |  | 11,571 | 11,944 | 1,268 |  |  |  | 11,553 | 11,928 | 1,268 |
| 12/26/2011 | true | true | FALSE | 3.29 | 9.17 | 5.94 | 55\% | 36\% | 65\% |  | 1.54 | 6.4 | 5.9 |  |  |  |  |  |  |  |  | 11,571 | 11,944 | 1,268 |  |  |  | 11,553 | 11,928 | 1,268 |
| 12/27/2011 | true | true | FALSE | 3.35 | 8.99 | 6.08 | 55\% | 37\% | 68\% |  | 1.48 | 6.4 | 5.9 | 281.00 | 246.00 | 0.88 |  | 14,249 | 12,474 |  |  | 11,762 | 12,020 | 1,268 | 14,249 | 12,474 |  | 11,746 | 12,006 | 1,268 |
| 12/28/2011 | true | true | FALSE | 3.35 | 9.02 | 6.08 | 55\% | 37\% | 67\% |  | 1.48 | 6.4 | 5.9 |  |  |  |  |  |  |  |  | 11,762 | 12,020 | 1,268 |  |  |  | 11,746 | 12,006 | 1,268 |
| 12/29/2011 | true | true | FALSE | 3.40 | 10.29 | 6.14 | 55\% | 33\% | 60\% |  | 1.68 | 6.4 | 5.9 | 224.00 |  |  | 19.28 | 11,471 |  | 987 |  | 11,805 | 12,020 | 1,212 | 11,471 |  | 987 | 11,789 | 12,006 | 1,212 |
| 12/30/2011 | True | true | false | 3.95 | 8.10 | 6.15 | 64\% | 49\% | 76\% |  | 1.32 | 6.4 | 5.9 | 270.00 |  |  |  | 13,849 |  |  |  | 11,861 | 12,024 | 1,212 | 13,849 |  |  | 11,845 | 12,007 | 1,212 |
| 12/31/2011 | true | true | FALSE | 3.68 | 7.97 | 6.12 | 60\% | 46\% | 77\% |  | 1.30 | 6.3 | 5.9 |  |  |  |  |  |  |  |  | 11,861 | 12,024 | 1,212 |  |  |  | 11,845 | 12,007 | 1,212 |
| 1/1/2012 | TRUE | TRUE | false | 3.87 | 7.83 | 5.83 | 66\% | 49\% | 74\% |  | 1.34 | 6.3 | 5.9 |  |  |  |  |  |  |  |  | 11,938 | 12,024 | 1,159 |  |  |  | 11,921 | 12,007 | 1,159 |
| 1/2/2012 | true | true | FALSE | 3.90 | 7.70 | 6.26 | 62\% | 51\% | 81\% |  | 1.23 | 6.3 | 6.1 |  |  |  |  |  |  |  |  | 11,869 | 12,117 | 1,159 |  |  |  | 11,850 | 12,097 | 1,159 |
| 1/3/2012 | true | true | FALSE | 3.60 | 8.00 | 6.19 | 58\% | 45\% | 77\% |  | 1.29 | 6.3 | 6.1 | 236.00 |  |  |  | 12,183 |  |  |  | 11,893 | 12,117 | 1,159 | 12,183 |  |  | 11,876 | 12,097 | 1,159 |
| 1/4/2012 | true | true | FALSE | 3.60 | 8.00 | 6.25 | 58\% | 45\% | 78\% |  | 1.28 | 6.3 | 6.1 |  |  |  |  |  |  |  |  | 11,893 | 12,117 | 1,159 |  |  |  | 11,876 | 12,097 | 1,159 |
| 1/5/2012 | True | true | false | 3.60 | 8.00 | 6.23 | 58\% | 45\% | 78\% |  | 1.28 | 6.3 | 6.1 | 261.00 |  |  | 21.03 | 13,561 |  | 1,093 |  | 11,903 | 12,117 | 1,146 | 13,561 |  | 1,093 | 11,886 | 12,097 | 1,146 |
| 1/6/2012 | True | TRUE | FALSE | 3.33 | 8.83 | 6.15 | 54\% | 38\% | 70\% |  | 1.44 | 6.2 | 6.1 | 235.00 | 213.00 | 0.91 |  | 12,053 | 10,925 |  |  | 11,936 | 12,200 | 1,146 | 12,053 | 10,925 |  | 11,918 | 12,179 | 1,146 |
| 1/7/2012 | True | true | false | 3.29 | 9.72 | 6.19 | 53\% | 34\% | 64\% |  | 1.57 | 6.2 | 6.2 |  |  |  |  |  |  |  |  | 11,936 | 12,200 | 1,146 |  |  |  | 11,918 | 12,179 | 1,146 |
| 1/8/2012 | TRUE | TRUE | FALSE | 3.41 | 8.36 | 6.20 | 55\% | 41\% | 74\% |  | 1.35 | 6.2 | 6.2 |  |  |  |  |  |  |  |  | 11,985 | 12,200 | 1,093 |  |  |  | 11,967 | 12,179 | 1,093 |
| 1/9/2012 | True | True | FALSE | 3.18 | 8.73 | 6.18 | 51\% | 36\% | 71\% |  | 1.41 | 6.2 | 6.2 | 227.00 |  |  |  | 11,700 |  |  |  | 11,963 | 12,200 | 1,093 | 11,700 |  |  | 11,946 | 12,179 | 1,093 |
| 1/10/2012 | true | true | FALSE | 3.38 | 11.17 | 6.14 | 55\% | 30\% | 55\% | AvgMax | 1.82 | 6.2 | 6.2 | 260.00 | 271.00 | 1.04 |  | 13,314 | 13,877 |  |  | 12,060 | 12,479 | 1,093 | 13,314 | 13,877 |  | 12,044 | 12,462 | 1,093 |
| 1/11/2012 | True | True | FALSE | 3.31 | 12.67 | 5.99 | 55\% | 26\% | 47\% | AvgMax | 2.12 | 6.2 | 6.2 |  |  |  |  |  |  |  |  | 12,060 | 12,479 | 1,093 |  |  |  | 12,044 | 12,462 | 1,093 |
| 1/12/2012 | True | TRUE | FALSE | 3.31 | 8.71 | 5.96 | 56\% | 38\% | 68\% |  | 1.46 | 6.2 | 6.2 |  |  |  | 21.62 |  |  | 1,075 |  | 12,116 | 12,479 | 1,089 |  |  | 1,075 | 12,098 | 12,462 | 1,089 |
| 1/13/2012 | TRUE | TRUE | FALSE | 3.41 | 7.36 | 5.83 | 58\% | 46\% | 79\% |  | 1.26 | 6.1 | 6.1 | 276.00 |  |  |  | 13,420 |  |  |  | 12,293 | 12,528 | 1,089 | 13,420 |  |  | 12,276 | 12,508 | 1,089 |
| 1/14/2012 | TRUE | TRUE | FALSE | 3.38 | 8.21 | 5.84 | 58\% | 41\% | 71\% |  | 1.41 | 6.1 | 6.0 |  |  |  |  |  |  |  |  | 12,293 | 12,528 | 1,089 |  |  |  | 12,276 | 12,508 | 1,089 |
| 1/1/20012 | true | true | FALSE | 3.45 | 8.02 | 5.74 | 60\% | 43\% | 72\% |  | 1.40 | 6.1 | 6.0 |  |  |  |  |  |  |  |  | 12,293 | 12,528 | 1,065 |  |  |  | 12,276 | 12,508 | 1,065 |
| 1/16/2012 | TRUE | TRUE | FALSE | 3.44 | 8.57 | 6.21 | 55\% | 40\% | 72\% |  | 1.38 | 6.1 | 6.0 |  |  |  |  |  |  |  |  | 12,264 | 12,294 | 1,065 |  |  |  | 12,264 | 12,294 | 1,065 |
| 1/17/2012 | TRUE | true | FALSE | 3.21 | 9.01 | 6.14 | 52\% | 36\% | 68\% |  | 1.47 | 6.1 | 6.0 |  |  |  | 23.37 |  |  | 1,197 |  | 12,264 | 12,294 | 1,091 |  |  | 1,197 | 12,264 | 12,294 | 1,091 |
| 1/18/2012 | TRUE | TRUE | FALSE | 3.32 | 8.97 | 6.18 | 54\% | 37\% | 69\% |  | 1.45 | 6.1 | 6.0 |  |  |  |  |  |  |  |  | 12,264 | 12,294 | 1,091 |  |  |  | 12,264 | 12,294 | 1,091 |
| 1/19/2012 | TRUE | TRUE | TRUE | 3.27 | 9.38 | 6.62 | 49\% | 35\% | 71\% |  | 1.42 | 6.1 | 6.1 | 261.00 |  |  |  | 14,410 |  |  |  | 12,678 | 12,294 | 1,091 | 14,293 |  |  | 12,668 | 12,294 | 1,091 |
| 1/20/2012 | TRUE | TRUE | TRUE | 3.94 | 12.60 | 9.19 | 43\% | 31\% | 73\% |  | 1.37 | 6.2 | 6.5 | 246.00 | 227.00 | 0.92 |  | 18,855 | 17,398 |  |  | 13,153 | 13,315 | 1,091 | 18,855 | 17,398 |  | 13,144 | 13,315 | 1,091 |
| 1/21/2012 | TRUE | TRUE | TRUE | 6.06 | 11.39 | 8.47 | 72\% | 53\% | 74\% | MinAvg | 1.34 | 6.2 | 6.6 |  |  |  |  |  |  |  |  | 13,389 | 13,315 | 1,088 |  |  |  | 13,379 | 13,315 | 1,088 |
| 1/22/2012 | TRUE | TRUE |  | 4.45 | 11.95 | 9.65 | 46\% | 37\% | 81\% |  | 1.24 | 6.3 | 7.1 |  |  |  |  |  |  |  |  | 13,551 | 13,669 | 1,088 |  |  |  | 13,541 | 13,669 | 1,088 |
| 1/23/2012 | TRUE | TRUE | TRUE | 5.87 | 14.92 | 11.45 | 51\% | 39\% | 77\% |  | 1.30 | 6.5 | 7.9 | 188.00 |  |  |  | 17,953 |  |  |  | 13,918 | 13,669 | 1,088 | 17,953 |  |  | 13,908 | 13,669 | 1,088 |
| 1/24/2012 | FALSE | FALSE | FALSE | 4.77 | 11.08 | 8.69 | 55\% | 43\% | 78\% |  | 1.28 | 6.6 | 8.3 | 147.00 | 119.00 | 0.81 |  | 10,654 | 8,624 |  |  | 13,667 | 12,660 | 1,088 | 10,654 | 8,624 |  | 13,658 | 12,660 | 1,088 |
| 1/25/2012 | FALSE | FALSE | TRUE | 4.46 | 10.16 | 7.96 | 56\% | 44\% | 78\% |  | 1.28 | 6.7 | 8.5 |  |  |  |  |  |  |  |  | 13,667 | 12,660 | 1,088 |  |  |  | 13,658 | 12,660 | 1,088 |
| 1/26/2012 | FALSE | FALSE | TRUE | 4.52 | 9.60 | 7.74 | 58\% | 47\% | 81\% |  | 1.24 | 6.8 | 8.8 |  |  |  | 14.20 |  |  | 917 |  | 13,667 | 12,660 | 1,054 |  |  | 917 | 13,658 | 12,660 | 1,054 |
| 1/27/2012 | FALSE | FALSE | FALSE | 4.16 | 9.43 | 7.42 | 56\% | 44\% | 79\% |  | 1.27 | 6.8 | 8.9 | 188.00 | 177.00 | 0.94 |  | 11,634 | 10,953 |  |  | 13,466 | 12,356 | 1,054 | 11,634 | 10,953 |  | 13,457 | 12,356 | 1,054 |
| 1/28/2012 | FALSE | FALSE | FALSE | 3.91 | 9.91 | 7.22 | 54\% | 39\% | 73\% |  | 1.37 | 6.8 | 8.6 |  |  |  |  |  |  |  |  | 13,466 | 12,356 | 1,054 |  |  |  | 13,457 | 12,356 | 1,054 |
| 1/29/2012 | FALSE | FALSE | FALSE | 4.32 | 9.31 | 7.08 | 61\% | 46\% | 76\% |  | 1.31 | 6.9 | 8.4 |  |  |  |  |  |  |  |  | 13,632 | 12,356 | 1,070 |  |  |  | 13,622 | 12,356 | 1,070 |
| 1/30/2012 | FALSE | FALSE | FALSE | 3.99 | 8.70 | 7.03 | 57\% | 46\% | 81\% |  | 1.24 | 6.9 | 8.1 | 166.00 |  |  |  | 9,733 |  |  |  | 13,289 | 12,356 | 1,070 | 9,733 |  |  | 13,279 | 12,356 | 1,070 |
| 1/31/2012 | FALSE | FALSE | FALSE | 3.99 | 8.64 | 6.91 | 58\% | 46\% | 80\% |  | 1.25 | 6.9 | 7.5 | 209.00 | 183.00 | 0.88 |  | 12,045 | 10,546 |  |  | 13,193 | 12,054 | 1,070 | 12,045 | 10,546 |  | 13,184 | 12,054 | 1,070 |
| 2/1/2012 | FALSE | FALSE | FALSE | 3.97 | 8.73 | 6.76 | 59\% | 45\% | 77\% |  | 1.29 | 7.0 | 7.3 |  |  |  |  |  |  |  |  | 13,193 | 12,054 | 1,070 |  |  |  | 13,184 | 12,054 | 1,070 |
| 2/2/2012 | false | false | false | 4.40 | 8.10 | 6.79 | 65\% | 54\% | 84\% |  | 1.19 | 7.0 | 7.1 |  |  |  | 31.57 |  |  | 1,788 |  | 13,193 | 12,054 | 1,214 |  |  | 1,788 | 13,184 | 12,054 | 1,214 |


| Date | $\begin{aligned} & \text { Butte } \\ & \text { Break? } \end{aligned}$ | $\begin{gathered} \text { cSU } \\ \text { Break? } \end{gathered}$ | Precip? | $\begin{gathered} \min _{\substack{\text { Influent } \\ \text { Flow, mgd }}} \end{gathered}$ | $\begin{gathered} \text { Max } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | $\begin{gathered} \text { Avg } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | $\begin{gathered} \text { Min \% of } \\ \text { Avg } \end{gathered}$ | Min \% of | $\text { Avg } \% \text { of }$ Max | $\begin{aligned} & \text { Flow } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | $\begin{aligned} & \text { Diurnal } \\ & \text { Peak } \\ & \text { Factor } \\ & \text { (DPF) } \end{aligned}$ | $\begin{gathered} \text { 30-d Avg } \\ \text { of Avg } \\ \text { Flow, mgd } \end{gathered}$ | 7-d Avg of Avg Flow, mgd | Influent TSS Conc., mg/L | $\begin{gathered} \text { Influent } \\ \text { BoD } \\ \text { Conc., } \\ \mathrm{mg} / \mathrm{L} \end{gathered}$ | BOD/TSS | Influent NH3-N Conc., mg/L | $\begin{gathered} \text { Avg } \operatorname{lnf} f \\ \text { TSS Lood, } \\ \text { ppod } \end{gathered}$ | $\begin{gathered} \text { Avg } \operatorname{lnf} \\ \text { BOD Load, } \\ \text { ppd } \end{gathered}$ | Avg $\operatorname{lnf}$ NH3 Load, ppd | $\begin{aligned} & \text { Load } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | 30-d Avg of TSS Load, ppd | 30-d Avg of BOD Load, ppd | 30-d Avg of NH3-N Load, ppd | $\begin{aligned} & \text { Hon-SN } \\ & \text { TSS Load, } \\ & \text { ppd } \end{aligned}$ | $\begin{gathered} \text { non-SN } \\ \text { BOD Load, } \\ \text { ppd } \end{gathered}$ | non-SN NH3 Load, ppd | $\begin{gathered} \text { 30-d Avg } \\ \text { of non-SN } \\ \text { TSS Load, } \\ \text { ppd } \end{gathered}$ | 30-d Avg of non-SN BOD Load, ppd | 30-d Avg of non-SN NH3-N Load, ppd |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2/3/2012 | FALSE | FALSE | FALSE | 3.31 | 9.98 | 6.73 | 49\% | 33\% | 67\% |  | 1.48 | 7.0 | 7.0 | 225.00 |  |  |  | 12,629 |  |  |  | 13,228 | 12,054 | 1,214 | 12,629 |  |  | 13,219 | 12,054 | 1,214 |
| 2/4/2012 | FALSE | FALSE | FALSE | 3.21 | 10.37 | 6.56 | 49\% | 31\% | 63\% |  | 1.58 | 7.0 | 6.9 |  |  |  |  |  |  |  |  | 13,228 | 12,054 | 1,214 |  |  |  | 13,219 | 12,054 | 1,214 |
| 2/5/2012 | FALSE | FALSE | FALSE | 3.27 | 10.44 | 6.43 | 51\% | 31\% | 62\% |  | 1.62 | 7.0 | 6.8 |  |  |  |  |  |  |  |  | 13,200 | 12,054 | 1,244 |  |  |  | 13,190 | 12,054 | 1,244 |
| 2/6/2012 | FALSE | FALSE | FALSE | 3.27 | 9.91 | 6.64 | 49\% | 33\% | 67\% |  | 1.49 | 7.0 | 6.7 | 251.00 |  |  |  | 13,900 |  |  |  | 13,354 | 12,280 | 1,244 | 13,900 |  |  | 13,344 | 12,280 | 1,244 |
| 2/7/2012 | FALSE | FALSE | TRUE | 3.46 | 10.15 | 6.81 | 51\% | 34\% | 67\% |  | 1.49 | 7.1 | 6.7 | 221.00 | 210.00 | 0.95 |  | 12,552 | 11,927 |  |  | 13,292 | 12,221 | 1,244 | 12,552 | 11,927 |  | 13,283 | 12,221 | 1,244 |
| 2/8/2012 | FALSE | FALSE | FALSE | 3.44 | 9.77 | 6.69 | 51\% | 35\% | 68\% |  | 1.46 | 7.1 | 6.7 |  |  |  |  |  |  |  |  | 13,292 | 12,221 | 1,244 |  |  |  | 13,283 | 12,221 | 1,244 |
| 2/9/2012 | FALSE | FALSE | FALSE | 3.35 | 9.80 | 6.63 | 51\% | 34\% | 68\% |  | 1.48 | 7.1 | 6.7 | 227.00 |  |  | 19.42 | 12,552 |  | 1,074 |  | 13,358 | 12,221 | 1,210 | 12,552 |  | 1,074 | 13,349 | 12,221 | 1,210 |
| 2/10/2012 | FALSE | FALSE | TRUE | 4.12 | 7.79 | 6.60 | 62\% | 53\% | 85\% |  | 1.18 | 7.1 | 6.6 | 306.00 | 219.00 | 0.72 |  | 16,843 | 12,055 |  |  | 13,629 | 11,917 | 1,210 | 16,843 | 12,055 |  | 13,620 | 11,917 | 1,210 |
| 2/11/2012 | FALSE | FALSE | FALSE | 4.58 | 8.29 | 6.46 | 71\% | 55\% | 78\% | inAvgMinM | 1.28 | 7.1 | 6.6 |  |  |  |  |  |  |  |  | 13,629 | 11,917 | 1,210 |  |  |  | 13,620 | 11,917 | 1,210 |
| 2/12/2012 | FALSE | FALSE | TRUE | 3.69 | 9.29 | 6.78 | 54\% | 40\% | 73\% |  | 1.37 | 7.1 | 6.7 |  |  |  |  |  |  |  |  | 13,629 | 11,917 | 1,244 |  |  |  | 13,620 | 11,917 | 1,244 |
| 2/13/2012 | FALSE | FALSE | TRUE | 4.19 | 9.21 | 7.36 | 57\% | 45\% | 80\% |  | 1.25 | 7.2 | 6.8 | 218.00 |  |  |  | 13,381 |  |  |  | 13,626 | 11,917 | 1,244 | 13,381 |  |  | 13,617 | 11,917 | 1,244 |
| 2/14/2012 | FALSE | FALSE | FALSE | 4.20 | 8.90 | 7.07 | 59\% | 47\% | 79\% |  | 1.26 | 7.2 | 6.8 | 208.00 | 195.00 | 0.94 |  | 12,264 | 11,498 |  |  | 13,529 | 11,857 | 1,244 | 12,264 | 11,498 |  | 13,520 | 11,857 | 1,244 |
| 2/15/2012 | FALSE | FALSE | FALSE | 3.94 | 9.08 | 7.03 | 56\% | 43\% | 77\% |  | 1.29 | 7.3 | 6.9 |  |  |  |  |  |  |  |  | 13,529 | 11,857 | 1,244 |  |  |  | 13,520 | 11,857 | 1,244 |
| 2/16/2012 | FALSE | FALSE | FALSE | 3.76 | 8.93 | 6.76 | 56\% | 42\% | 76\% |  | 1.32 | 7.3 | 6.9 | 211.00 |  |  | 17.46 | 11,896 |  | 984 |  | 13,420 | 11,857 | 1,192 | 11,896 |  | 984 | 13,412 | 11,857 | 1,192 |
| 2/17/2012 | FALSE | FALSE | FALSE | 3.34 | 10.04 | 6.70 | 50\% | 33\% | 67\% |  | 1.50 | 7.3 | 6.9 | 209.00 | 217.00 | 1.04 |  | 11,679 | 12,126 |  |  | 13,311 | 11,891 | 1,191 | 11,679 | 12,126 |  | 13,304 | 11,891 | 1,191 |
| 2/18/2012 | FALSE | FALSE | FALSE | 3.34 | 10.31 | 6.50 | 51\% | 32\% | 63\% |  | 1.59 | 7.3 | 6.9 |  |  |  |  |  |  |  |  | 13,311 | 11,891 | 1,191 |  |  |  | 13,304 | 11,891 | 1,191 |
| 2/19/2012 | FALSE | FALSE | FALSE | 3.23 | 10.12 | 6.39 | 51\% | 32\% | 63\% |  | 1.58 | 7.3 | 6.8 |  |  |  |  |  |  |  |  | 13,238 | 11,891 | 1,191 |  |  |  | 13,238 | 11,891 | 1,191 |
| 2/20/2012 | FALSE | FALSE | FALSE | 3.60 | 9.30 | 6.86 | 52\% | 39\% | 74\% |  | 1.36 | 7.2 | 6.8 |  |  |  |  |  |  |  |  | 12,837 | 11,104 | 1,911 |  |  |  | 12,837 | 11,104 | 1,191 |
| 2/21/2012 | FALSE | FALSE | FALSE | 3.35 | 10.09 | 6.65 | 50\% | 33\% | 66\% |  | 1.52 | 7.2 | 6.7 | 246.00 | 207.00 | 0.84 |  | 13,643 | 11,480 |  |  | 12,890 | 11,151 | 1,191 | 13,643 | 11,480 |  | 12,890 | 11,151 | 1,191 |
| 2/22/2012 | FALSE | FALSE | FALSE | 3.40 | 10.00 | 6.57 | 52\% | 34\% | 66\% |  | 1.52 | 7.1 | 6.7 |  |  |  |  |  |  |  |  | 12,890 | 11,151 | 1,191 |  |  |  | 12,890 | 11,151 | 1,191 |
| 2/23/2012 | FALSE | FALSE | FALSE | 3.40 | 10.00 | 6.56 | 52\% | 34\% | 66\% |  | 1.52 | 6.9 | 6.6 | 243.00 |  |  | 19.75 | 13,295 |  | 1,081 |  | 12,580 | 11,151 | 1,169 | 13,295 |  | 1,081 | 12,580 | 11,151 | 1,169 |
| 2/24/2012 | FALSE | FALSE | FALSE | 3.62 | 8.42 | 6.41 | 56\% | 43\% | 76\% |  | 1.31 | 6.9 | 6.6 |  |  |  |  |  |  |  |  | 12,717 | 11,512 | 1,169 |  |  |  | 12,717 | 11,512 | 1,169 |
| 2/25/2012 | FALSE | FALSE | FALSE | 3.49 | 9.00 | 6.33 | 55\% | 39\% | 70\% |  | 1.42 | 6.8 | 6.5 |  |  |  |  |  |  |  |  | 12,717 | 11,512 | 1,169 |  |  |  | 12,717 | 11,512 | 1,169 |
| 2/26/2012 | FALSE | FALSE | FALSE | 3.44 | 9.19 | 6.36 | 54\% | 37\% | 69\% |  | 1.44 | 6.8 | 6.5 |  |  |  |  |  |  |  |  | 12,717 | 11,512 | 1,232 |  |  |  | 12,717 | 11,512 | 1,232 |
| 2/27/2012 | FALSE | FALSE | FALSE | 3.39 | 8.54 | 6.51 | 52\% | 40\% | 76\% |  | 1.31 | 6.7 | 6.5 |  |  |  |  |  |  |  |  | 12,801 | 11,605 | 1,232 |  |  |  | 12,801 | 11,605 | 1,232 |
| 2/28/2012 | FALSE | FALSE | FALSE | 3.62 | 8.53 | 6.61 | 55\% | 42\% | 77\% |  | 1.29 | 6.7 | 6.5 | 239.00 | 216.00 | 0.90 |  | 13,175 | 11,908 |  |  | 12,828 | 11,648 | 1,232 | 13,175 | 11,908 |  | 12,828 | 11,648 | 1,232 |
| 2/29/2012 | FALSE | FALSE | TRUE | 3.66 | 8.54 | 6.71 | 55\% | 43\% | 79\% |  | 1.27 | 6.7 | 6.5 |  |  |  |  |  |  |  |  | 12,828 | 11,648 | 1,232 |  |  |  | 12,828 | 11,648 | 1,232 |
| 3/1/2012 | FALSE | FALSE | TRUE | 3.32 | 8.78 | 6.65 | 50\% | 38\% | 76\% |  | 1.32 | 6.7 | 6.5 | 230.00 |  |  | 21.14 | 12,756 |  | 1,172 |  | 13,044 | 11,648 | 1,220 | 12,756 |  | 1,172 | 13,044 | 11,648 | 1,220 |
| 3/2/2012 | FALSE | FALSE | FALSE | 3.50 | 8.70 | 6.55 | 53\% | 40\% | 75\% |  | 1.33 | 6.7 | 6.5 | 252.00 | 200.00 | 0.79 |  | 13,766 | 10,925 |  |  | 13,167 | 11,703 | 1,220 | 13,766 | 10,925 |  | 13,167 | 11,703 | 1,220 |
| 3/3/2012 | FALSE | FALSE | FALSE | 3.50 | 8.80 | 6.30 | 56\% | 40\% | 72\% |  | 1.40 | 6.7 | 6.5 |  |  |  |  |  |  |  |  | 13,167 | 11,703 | 1,220 |  |  |  | 13,167 | 11,703 | 1,220 |
| 3/4/2012 | FALSE | FALSE | FALSE | 3.30 | 9.03 | 6.31 | 52\% | 37\% | 70\% |  | 1.43 | 6.6 | 6.5 |  |  |  |  |  |  |  |  | 13,167 | 11,703 | 1,078 |  |  |  | 13,167 | 11,703 | 1,078 |
| 3/5/2012 | FALSE | FALSE | FALSE | 3.50 | 8.40 | 6.56 | 53\% | 42\% | 78\% |  | 1.28 | 6.6 | 6.5 |  |  |  |  |  |  |  |  | 13,208 | 11,703 | 1,078 |  |  |  | 13,208 | 11,703 | 1,078 |
| 3/6/2012 | FALSE | FALSE | FALSE | 3.60 | 8.30 | 6.52 | 55\% | 43\% | 79\% |  | 1.27 | 6.6 | 6.5 | 268.00 | 196.00 | 0.73 |  | 14,573 | 10,658 |  |  | 13,305 | 11,572 | 1,078 | 14,573 | 10,658 |  | 13,305 | 11,572 | 1,078 |
| 3/7/2012 | FALSE | FALSE | FALSE | 3.60 | 8.50 | 6.49 | 55\% | 42\% | 76\% |  | 1.31 | 6.6 | 6.5 |  |  |  |  |  |  |  |  | 13,305 | 11,572 | 1,078 |  |  |  | 13,305 | 11,572 | 1,078 |
| 3/8/2012 | FALSE | FALSE | FALSE | 3.50 | 8.60 | 6.40 | 55\% | 41\% | 74\% |  | 1.34 | 6.6 | 6.5 |  |  |  | 21.44 |  |  | 1,144 |  | 13,260 | 11,572 | 1,091 |  |  | 1,144 | 13,260 | 11,572 | 1,091 |
| 3/9/2012 | FALSE | FALSE | FALSE | 3.43 | 8.53 | 6.40 | 54\% | 40\% | 75\% |  | 1.33 | 6.6 | 6.4 |  |  |  |  |  |  |  |  | 13,319 | 11,521 | 1,091 |  |  |  | 13,319 | 11,521 | 1,091 |
| 3/10/2012 | FALSE | FALSE | ${ }^{\text {FALLSE }}$ | 3.38 3.60 | 8.66 | 6.08 | 55\% | 39\% | 70\% |  | 1.42 | 6.6 | 6.4 |  |  |  |  |  |  |  |  | 13,319 <br> 1388 | 11,521 | 1,091 |  |  |  | 13,319 <br> 11388 <br> 1 | 11,521 | 1,091 |
| 3/11/2012 | FALSE | FALSE | FALSE | 3.60 | 8.50 | 6.38 | 56\% | 42\% | 75\% |  | 1.33 | 6.6 | 6.4 |  |  |  |  |  |  |  |  | 13,388 | 11,521 | 1,095 |  |  |  | 13,388 | 11,521 | 1,095 |
| 3/12/2012 | FALSE | FALSE | ${ }^{\text {FALSE }}$ TREE | 3.60 3.59 | 7.67 | 6.46 | 56\% | 47\% | 84\% |  | 1.19 | 6.6 | ${ }_{6}^{6.4}$ | 265.00 |  |  |  | 14,277 |  |  |  | 13,155 | 11,432 | 1,095 | 14,277 |  |  | 13,155 | 11,432 | 1,095 |
| 3/13/2012 | FALSE | FALSE | ${ }_{\text {TRUE }}^{\text {TRUE }}$ | 3.59 4.82 | $9.35$ | 7.28 8.89 | 49\% | 38\% $44 \%$ | 78\% 80\% |  | $\begin{aligned} & 1.28 \\ & 11 \end{aligned}$ | 6.6 6.7 | $\begin{aligned} & 6.5 \\ & 6.8 \end{aligned}$ | $\begin{aligned} & 238.00 \\ & 288.00 \end{aligned}$ | 208.00 | 0.87 |  | $\begin{aligned} & 14,450 \\ & 175 a 6 \end{aligned}$ | 15,422 |  |  | $\begin{aligned} & 13,263 \\ & 13000 \end{aligned}$ | $\begin{aligned} & \text { 11,432 } \\ & 1020 \end{aligned}$ | $\begin{aligned} & 1,095 \\ & 1,095 \end{aligned}$ | $\begin{aligned} & 14,450 \\ & 17 \end{aligned}$ | 15,422 |  | $\begin{aligned} & 13,263 \\ & 13 \end{aligned}$ | $\begin{aligned} & 11,432 \\ & 12002 \end{aligned}$ | 1,095 <br> 1,095 <br> 1005 |
| 3/15/2012 | FALSE | FALSE | TRUE | 4.85 | 10.50 | 8.59 8.8 | 56\% | 46\% | 82\% |  | 1.22 | 6.7 | 7.1 |  |  |  | 13.50 |  |  | 967 |  | 13,618 | 12,002 | 1,070 |  |  | 967 | 13,618 | 12,002 | 1,070 |
| 3/16/2012 | FALSE | TRUE | TRUE | 5.41 | 11.33 | 8.58 | 63\% | 48\% | 76\% |  | 1.32 | 6.8 | 7.3 | 191.00 | 180.00 | 0.94 |  | 13,667 | 12,880 |  |  | 13,735 | 12,200 | 1,070 | 13,667 | 12,880 |  | 13,735 | 12,200 | 1,070 |
| 3/17/2012 | FALSE | TRUE | FALSE | 4.33 | 11.76 | 8.02 | 54\% | 37\% | 68\% |  | 1.47 | 6.8 | 7.5 |  |  |  |  |  |  |  |  | 13,735 | 12,200 | 1,070 |  |  |  | 13,735 | 12,200 | 1,070 |
| 3/18/2012 | FALSE | FALSE | TRUE | 3.82 | 12.74 | 8.08 | 47\% | 30\% | 63\% |  | 1.58 | 6.8 | 7.8 |  |  |  |  |  |  |  |  | 13,903 | 12,200 | 1,091 |  |  |  | 13,903 | 12,200 | 1,091 |
| 3/19/2012 | FALSE | FALSE | FALSE | 3.71 | 11.63 | 7.72 | 48\% | 32\% | 66\% |  | 1.51 | 6.9 | 8.0 | 203.00 |  |  |  | 13,070 |  |  |  | 14,029 | 12,212 | 1,091 | 13,070 |  |  | 14,029 | 12,212 | 1,091 |
| 3/20/2012 | FALSE | FALSE | FALSE | 3.57 | 9.95 | 7.11 | 50\% | 36\% | 71\% |  | 1.40 | 6.9 | 8.0 | 163.00 | 152.00 | 0.93 |  | 9,665 | 9,013 |  |  | 13,665 | 11,755 | 1,091 | 9,665 | 9,013 |  | 13,665 | 11,755 | 1,091 |
| 3/21/2012 | FALSE | FALSE | FALSE | 3.57 | 9.69 | 6.86 | 52\% | 37\% | 71\% |  | 1.41 | 6.9 | 8.0 |  |  |  |  |  |  |  |  | 13,665 | 11,755 | 1,091 |  |  |  | 13,665 | 11,755 | 1,091 |
| 3/22/2012 | FALSE | FALSE | TRUE | 3.39 | 9.56 | 6.71 | 51\% | 35\% | 70\% |  | 1.42 | 6.9 | 7.7 | 221.00 |  |  | 17.95 | 12,367 |  | 1,005 |  | 13,566 | 11,755 | 1,074 | 12,367 |  | 1,005 | 13,566 | 11,755 | 1,074 |
| 3/23/2012 | FALSE | FALSE | FALSE | 4.17 | 8.21 | 6.66 | 63\% | 51\% | 81\% |  | 1.23 | 6.9 | 7.5 | 216.00 | 198.00 | 0.92 |  | 11,998 | 10,998 |  |  | 13,439 | 11,686 | 1,074 | 11,998 | 10,998 |  | 13,439 | 11,686 | 1,074 |
| 3/24/2012 | FALSE | FALSE | FALSE | 4.07 | 8.21 | 6.61 | 62\% | 50\% | 81\% |  | 1.24 | 6.9 | 7.2 |  |  |  |  |  |  |  |  | 13,439 | 11,686 | 1,074 |  |  |  | 13,439 | 11,686 | 1,074 |
| 3/25/2012 | FALSE | FALSE | TRUE | 3.48 | 10.94 | 7.29 | 48\% | 32\% | 67\% |  | 1.50 | 6.9 | 7.1 |  |  |  |  |  |  |  |  | 13,451 | 11,686 | 1,072 |  |  |  | 13,451 | 11,686 | 1,072 |
| 3/26/2012 | FALSE | FALSE | TRUE | 3.66 | 9.76 | 7.31 | 50\% | 38\% | 75\% |  | 1.34 | 6.9 | 7.0 | 202.00 |  |  |  | 12,315 |  |  |  | 13,364 | 11,886 | 1,072 | 12,315 |  |  | 13,364 | 11,886 | 1,072 |
| 3/27/2012 | FALSE | TRUE | TRUE | 3.77 | 13.34 | 9.23 | 41\% | 28\% | 69\% | MinAvg | 1.45 | 7.0 | 6.9 | 181.00 | 183.00 | 1.01 |  | 13,933 | 14,087 |  |  | 13,404 | 11,986 | 1,072 | 13,933 | 14,087 |  | 13,404 | 11,986 | 1,072 |
| 3/28/2012 | FALSE | TRUE | TRUE | 5.61 | 14.25 | 10.97 | 51\% | 39\% | 77\% |  | 1.30 | 7.1 | 7.5 |  |  |  |  |  |  |  |  | 13,404 | 11,986 | 1,072 |  |  |  | 13,404 | 11,986 | 1,072 |
| 3/29/2012 | FALSE | FALSE | TRUE | 4.76 | 12.14 | 9.19 | 52\% | 39\% | 76\% |  | 1.32 | 7.2 | 7.8 | 178.00 |  |  | 9.28 | 13,643 |  | 711 |  | 13,420 | 11,986 | 1,000 | ${ }^{13,643}$ |  | 711 | 13,420 | 11,986 | 1,000 |
| 3/30/2012 | FALSE | FALSE | FALSE | 4.21 | 12.29 | 8.61 | 49\% | 34\% | 70\% |  | 1.43 | 7.3 | 8.1 | 167.00 | 165.00 | 0.99 |  | 11,992 | 11,848 |  |  | 13,341 | 11,979 | 1,000 | 11,715 | 11,745 |  | 13,323 | 11,966 | 1,000 |
| 3/31/2012 | ${ }_{\text {FALSE }}$ | FALSE | ${ }_{\text {TRUE }}$ | 3.91 | 12.89 | 8.60 | 45\% | 30\% | 67\% |  | 1.50 | 7.3 | 8.4 |  |  |  |  |  |  |  |  | 13,341 | 11,979 | 1,000 |  |  |  | 13,323 | 11,966 | 1,000 |
| $4 / 1 / 2012$ 4/2/2012 | FALSE FALSE | FALSE | FALSE FALSE | 4.30 4.00 | 10.90 10.40 | 8.04 7.91 | 53\% | 39\% | 74\% |  | 1.36 1.31 | 7.4 7.4 | 8.6 8.7 | 186.00 |  |  |  | 12,270 |  |  |  | 13,383 13,276 | 11,979 12,129 | $\begin{aligned} & 997 \\ & 957 \end{aligned}$ | 12,270 |  |  | $\begin{aligned} & 13,363 \\ & 1,256 \end{aligned}$ | $\begin{aligned} & 11,966 \\ & 12,115 \end{aligned}$ | $\begin{aligned} & 997 \\ & 957 \end{aligned}$ |
| 4/3/2012 | FALSE | FALSE | TRUE | 4.20 | 10.00 | 7.70 | 55\% | 42\% | 77\% |  | 1.30 | 7.5 | 8.7 | 204.00 | 200.00 | 0.98 |  | 13,100 | 12,844 |  |  | 13,265 | 12,219 | 957 | 13,100 | 12,844 |  | 13,246 | 12,206 | 957 |
| 4/4/2012 | FALSE | FALSE | FALSE | 4.20 | 10.10 | 7.52 | 56\% | 42\% | 74\% |  | 1.34 | 7.5 | 8.6 |  |  |  |  |  |  |  |  | 13,265 | 12,219 | 957 |  |  |  | 13,246 | 12,206 | 957 |
| 4/5/2012 | FALSE | FALSE | FALSE | 3.70 | 9.60 | 7.28 | 51\% | 39\% | 76\% |  | 1.32 | 7.5 | 8.1 |  |  |  | 21.18 |  |  | 1,286 |  | 13,265 | 12,219 | 1,023 |  |  | 1,286 | 13,246 | 12,206 | 1,023 |


| Date | $\begin{array}{\|l\|l} \text { Butte } \\ \text { Break? } \end{array}$ | $\underset{\text { Break? }}{\text { csu }}$ | Precip? | $\underset{\substack{\text { Influent } \\ \text { Flow, } \text { mgd } \\ \hline}}{\text { min }}$ | $\begin{gathered} \text { Max } \\ \text { Mnfluent } \\ \text { Flow, } \mathrm{mgd} \end{gathered}$ | $\begin{gathered} \text { Avg } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | $\begin{aligned} & \text { Min \% of } \\ & \text { Avg } \end{aligned}$ | $\underset{\text { max }}{\min _{\text {max }}}$ | $\begin{aligned} & \text { Avg \% of } \\ & \text { Max } \end{aligned}$ | $\begin{aligned} & \text { Flow } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | $\begin{aligned} & \text { Diurnal } \\ & \text { Peak } \\ & \text { Factor } \\ & \text { (DPF) } \end{aligned}$ | 30-d Avg of Avg Flow, mgd | 7-d Avg of Avg Flow, mgd | Influent TSS Conc., mg/L | $\begin{gathered} \text { Infiluent } \\ \text { BoD } \\ \text { Conc., } \\ \mathrm{mg} / \mathrm{L} \end{gathered}$ | $\underset{\text { Ratio }}{\text { BOD/TSS }}$ | Influent NH3-N Conc., mg/L | Avg Inf TSS Load, ppd | Avg Inf BOD Load, ppd | Avg Inf NH3 Load, ppd | $\begin{aligned} & \text { Load } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | 30-d Avg of TSS Load, ppd | 30-d Avg Load, ppd | 30-d Avg of NH3-N Load, ppd | non-SN TSS Load, ppd | non-SN BOD Load, ppd | non-SN NH3 Load, ppd | $\begin{gathered} \text { 30-d Avg } \\ \text { of non-SN } \\ \text { TSS Load, } \\ \text { ppd } \end{gathered}$ | 30-d Avg <br> of non-SN BOD Load, ppd | $\begin{gathered} \text { 30-d Avg } \\ \text { of non-SN } \\ \text { NH3-N } \\ \text { Load, ppd } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 4/6/2012 | FALSE | FALSE | FALSE | 3.66 | 9.80 | 7.15 | 51\% | 37\% | 73\% |  | 1.37 | 7.6 | 7.9 | 209.00 | 212.00 | 1.01 |  | 12,463 | 12,642 |  |  | 13,124 | 12,467 | 1,023 | 12,463 | 12,642 |  | 13,105 | 12,454 | 1,023 |
| 4/7/2012 | FALSE | FALSE | FALSE | 3.42 | 9.65 | 6.74 | 51\% | 35\% | 70\% |  | 1.43 | 7.6 | 7.6 |  |  |  |  |  |  |  |  | 13,124 | 12,467 | 1,023 |  |  |  | 13,105 | 12,454 | 1,023 |
| 4/8/2012 | FALSE | FALSE | FALSE | 3.50 | 9.20 | 6.50 | 54\% | 38\% | 71\% |  | 1.42 | 7.6 | 7.4 |  |  |  |  |  |  |  |  | 13,124 | 12,467 | 992 |  |  |  | 13,105 | 12,454 | 992 |
| 4/9/2012 | FALSE | FALSE | FALSE | 3.51 | 9.72 | 6.97 | 50\% | 36\% | 72\% |  | 1.39 | 7.6 | 7.2 | 190.00 |  |  |  | 11,045 |  |  |  | 12,994 | 12,467 | 992 | 11,045 |  |  | 12,977 | 12,454 | 992 |
| 4/10/2012 | FALSE | FALSE | True | 3.49 | 9.44 | 6.99 | 50\% | 37\% | 74\% |  | 1.35 | 7.6 | 7.1 | 216.00 | 214.00 | 0.99 |  | 12,592 | 12,475 |  |  | 12,970 | 12,468 | 992 | 12,592 | 12,475 |  | 12,954 | 12,456 | 992 |
| 4/11/2012 | FALSE | FALSE | true | 3.80 | 9.48 | 7.13 | 53\% | 40\% | 75\% |  | 1.33 | 7.6 | 7.0 |  |  |  |  |  |  |  |  | 12,970 | 12,468 | 992 |  |  |  | 12,954 | 12,456 | 992 |
| 4/12/2012 | FALSE | FALSE | True | 3.56 | 10.46 | 7.37 | 48\% | 34\% | 70\% |  | 1.42 | 7.7 | 7.0 | 221.00 |  |  | 19.54 | 13,584 |  | 1,201 |  | 12,929 | 12,468 | 1,034 | 13,584 |  | 1,201 | 12,913 | 12,456 | 1,034 |
| 4/13/2012 | FALSE | FALSE | true | 4.14 | 10.25 | 8.24 | 50\% | 40\% | 80\% |  | 1.24 | 7.7 | 7.1 | 199.00 | 195.00 | 0.98 |  | 13,676 | 13,401 |  |  | 12,884 | 12,561 | 1,034 | 13,676 | 13,401 |  | 12,868 | 12,551 | 1,034 |
| 4/14/2012 | FALSE | FALSE | FALSE | 4.40 | 10.24 | 7.57 | 58\% | 43\% | 74\% |  | 1.35 | 7.7 | 7.2 |  |  |  |  |  |  |  |  | 12,586 | 12,243 | 1,034 |  |  |  | 12,569 | 12,232 | 1,034 |
| 4/15/2012 | FALSE | FALSE | false | 3.59 | 10.39 | 7.39 | 49\% | 35\% | 71\% |  | 1.41 | 7.6 | 7.3 |  |  |  |  |  |  |  |  | 12,586 | 12,243 | 1,051 |  |  |  | 12,569 | 12,232 | 1,051 |
| 4/16/2012 | FALSE | FALSE | FALSE | 3.61 | 9.94 | 7.21 | 50\% | 36\% | 73\% |  | 1.38 | 7.6 | 7.4 | 121.00 |  |  | 14.66 | 7,276 |  | 882 |  | 12,187 | 12,163 | 1,017 | 7,276 |  | 882 | 12,170 | 12,151 | 1,017 |
| 4/17/2012 | FALSE | FALSE | false | 3.65 | 9.81 | 7.18 | 51\% | 37\% | 73\% |  | 1.37 | 7.6 | 7.4 | 199.00 | 199.00 | 1.00 |  | 11,916 | 11,916 |  |  | 12,171 | 12,136 | 1,017 | 11,916 | 11,916 |  | 12,155 | 12,125 | 1,017 |
| 4/18/2012 | FALSE | FALSE | false | 3.54 | 9.58 | 7.00 | 51\% | 37\% | 73\% |  | 1.37 | 7.5 | 7.4 |  |  |  |  |  |  |  |  | 12,171 | 12,136 | 1,017 |  |  |  | 12,155 | 12,125 | 1,017 |
| 4/19/2012 | FALSE | FALSE | FALSE | 3.70 | 9.60 | 7.24 | 51\% | 39\% | 75\% |  | 1.33 | 7.5 | 7.4 | 288.00 |  |  |  | 17,390 |  |  |  | 12,425 | 12,136 | 1,017 | 17,390 |  |  | 12,409 | 12,125 | 1,017 |
| 4/20/2012 | FALSE | FALSE | FALSE | 3.50 | 9.20 | 6.84 | 51\% | 38\% | 74\% |  | 1.35 | 7.5 | 7.3 | 227.00 | 199.00 | 0.88 |  | 12,949 | 11,352 |  |  | 12,618 | 12,396 | 1,017 | 12,949 | 11,352 |  | 12,602 | 12,384 | 1,017 |
| 4/21/2012 | FALSE | FALSE | FALSE | 3.42 | 9.47 | 6.57 | 52\% | 36\% | 69\% |  | 1.44 | 7.5 | 7.1 |  |  |  |  |  |  |  |  | 12,618 | 12,396 | 1,017 |  |  |  | 12,602 | 12,384 | 1,017 |
| 4/22/2012 | FALSE | FALSE | FALSE | 3.42 | 9.39 | 6.69 | 51\% | 36\% | 71\% |  | 1.40 | 7.5 | 7.0 |  |  |  |  |  |  |  |  | 12,634 | 12,396 | 1,020 |  |  |  | 12,617 | 12,384 | 1,020 |
| 4/23/2012 | FALSE | FALSE | FALSE | 3.39 | 9.22 | 6.81 | 50\% | 37\% | 74\% |  | 1.35 | 7.5 | 6.9 | 225.00 |  |  |  | 12,779 |  |  |  | 12,683 | 12,571 | 1,020 | 12,779 |  |  | 12,665 | 12,558 | 1,020 |
| 4/24/2012 | FALSE | FALSE | FALSE | 3.54 | 8.55 | 6.73 | 53\% | 41\% | 79\% |  | 1.27 | 7.5 | 6.9 | 273.00 | 193.00 | 0.71 |  | 15,323 | 10,833 |  |  | 12,838 | 12,378 | 1,020 | 15,323 | 10,833 |  | 12,822 | 12,366 | 1,020 |
| 4/25/2012 | FALSE | FALSE | true | 3.59 | 9.21 | 6.94 | 52\% | 39\% | 75\% |  | 1.33 | 7.5 | 6.9 |  |  |  |  |  |  |  |  | 12,838 | 12,378 | 1,020 |  |  |  | 12,822 | 12,366 | 1,020 |
| 4/26/2012 | FALSE | FALSE | TRUE | 3.94 | 9.52 | 7.15 | 55\% | 41\% | 75\% |  | 1.33 | 7.5 | 6.9 |  |  |  | 31.82 |  |  | 1,897 |  | 12,871 | 12,378 | 1,195 |  |  | 1,897 | 12,853 | 12,366 | 1,195 |
| 4/27/2012 | FALSE | FALSE | FALSE | 3.55 | 10.01 | 7.01 | 51\% | 35\% | 70\% |  | 1.43 | 7.5 | 6.8 | 215.00 | 192.00 | 0.89 |  | 12,570 | 11,225 |  |  | 12,785 | 12,060 | 1,195 | 12,570 | 11,225 |  | 12,768 | 12,048 | 1,195 |
| 4/28/2012 | FALSE | FALSE | FALSE | 3.48 | 9.60 | 6.60 | 53\% | 36\% | 69\% |  | 1.45 | 7.3 | 6.8 |  |  |  |  |  |  |  |  | 12,785 | 12,060 | 1,195 |  |  |  | 12,768 | 12,048 | 1,195 |
| 4/29/2012 | FALSE | FALSE | FALSE | 3.44 | 9.02 | 6.53 | 53\% | 38\% | 72\% |  | 1.38 | 7.2 | 6.8 |  |  |  |  |  |  |  |  | 12,728 | 12,060 | 1,316 |  |  |  | 12,710 | 12,048 | 1,316 |
| 4/30/2012 | FALSE | FALSE | false | 3.46 | 8.72 | 6.74 | 51\% | 40\% | 77\% |  | 1.29 | 7.2 | 6.8 |  |  |  |  |  |  |  |  | 12,781 | 12,086 | 1,316 |  |  |  | 12,781 | 12,086 | 1,316 |
| 5/1/2012 | FALSE | FALSE | falise | 3.55 | 8.83 | 6.76 | 53\% | 40\% | 77\% |  | 1.31 | 7.1 | 6.8 | 277.00 | 212.00 | 0.77 |  | 15,617 | 11,952 |  |  | 12,970 | 12,071 | 1,316 | 15,617 | 11,952 |  | 12,970 | 12,071 | 1,316 |
| 5/2/2012 | FALSE | FALSE | FALSE | 3.51 | 8.99 | 6.82 | 51\% | 39\% | 76\% |  | 1.32 | 7.1 | 6.8 |  |  |  |  |  |  |  |  | 12,970 | 12,071 | 1,316 |  |  |  | 12,970 | 12,071 | 1,316 |
| 5/3/2012 | FALSE | FALSE | FALISE | 3.61 | 8.79 | 6.81 | 53\% | 41\% | 77\% |  | 1.29 | 7.0 | 6.8 | 204.00 |  |  | 20.13 | 11,586 |  | 1,143 |  | 12,924 | 12,071 | 1,282 | 11,586 |  | 1,143 | 12,924 | 12,071 | 1,282 |
| 5/4/2012 | FALSE | FALSE | FALSE | 3.60 | 9.20 | 6.64 | 54\% | 39\% | 72\% |  | 1.39 | 7.0 | 6.7 | 286.00 | 199.00 | 0.70 |  | 15,838 | 11,020 |  |  | 13,107 | 11,868 | 1,282 | 15,838 | 11,020 |  | 13,107 | 11,868 | 1,282 |
| 5/5/2012 | FALSE | FALSE | FALSE | 3.40 | 9.60 | 6.66 | 51\% | 35\% | 69\% |  | 1.44 | 7.0 | 6.7 |  |  |  |  |  |  |  |  | 13,107 | 11,868 | 1,282 |  |  |  | 13,107 | 11,868 | 1,282 |
| 5/6/2012 | FALSE | FALSE | false | 3.47 | 9.25 | 6.59 | 53\% | 38\% | 71\% |  | 1.40 | 7.0 | 6.7 |  |  |  |  |  |  |  |  | 13,107 | 11,868 | 1,281 |  |  |  | 13,107 | 11,868 | 1,281 |
| 5/7/2012 | FALSE | FALSE | FALSE | 3.51 | 8.83 | 6.75 | 52\% | 40\% | 76\% |  | 1.31 | 6.9 | 6.7 | 208.00 |  |  |  | ${ }^{11,709}$ |  |  |  | 13,057 | 11,772 | 1,281 | 11,709 |  |  | 13,057 | 11,772 | 1,281 |
| 5/8/2012 | FALSE | FALSE | FALSE | 3.47 | 9.23 | 6.72 | 52\% | 38\% | 73\% |  | 1.37 | 6.9 | 6.7 | 232.00 | 202.00 | 0.87 |  | 13,002 | 11,321 |  |  | 13,053 | 11,722 | 1,281 | 13,002 | 11,321 |  | 13,053 | 11,722 | 1,281 |
| 5/9/2012 | FALSE | FALSE | FALISE | 3.55 | 9.03 | 6.64 | 53\% | 39\% | 74\% |  | 1.36 | 6.9 | 6.7 |  |  |  |  |  |  |  |  | 13,053 | ${ }^{11,722}$ | 1,281 |  |  |  | 13,053 | 11,722 | 1,281 |
| 5/10/2012 | FALSE | FALSE | ${ }_{\text {FALLSE }}$ | 3.49 3 | 8.86 | 6.64 | 53\% | 39\% | 75\% |  | 1.33 | 6.9 | 6.7 | 122.00 |  |  | 22.32 | ${ }_{6}^{6,756}$ |  | 1,236 |  | 12,785 | 11,722 | 1,272 | 6,756 |  | 1,236 | 12,785 12937 | 11,722 | 1,272 |
| 5/11/2012 | FALSE | FALSE | FALSE | 3.56 | 8.59 | 6.60 | 54\% | 41\% | 77\% |  | 1.30 | 6.9 | 6.7 | 273.00 | 210.00 | 0.77 |  | 15,027 | 11,559 |  |  | 12,937 | 11,620 | 1,272 | 15,027 | 11,559 |  | 12,937 | 11,620 | 1,272 |
| 5/12/2012 | FALSE | false | FALSE | 3.57 | 8.83 | 6.38 | 56\% | 40\% | 72\% |  | 1.38 | 6.9 | 6.6 |  |  |  |  |  |  |  |  | 12,937 | 11,620 | 1,272 |  |  |  | 12,937 | 11,620 | 1,272 |
| 5/13/2012 | FALSE | FALSE | FALSE | 3.50 | 9.10 | 6.52 | 54\% | 38\% | 72\% |  | 1.40 | 6.9 | 6.6 |  |  |  |  |  |  |  |  | 12,894 | 11,620 | 1,290 |  |  |  | 12,894 | 11,620 | 1,290 |
| 5/14/2012 | FALSE | FALSE | FALSE | 3.50 | 8.50 | 6.68 | 52\% | 41\% | 79\% |  | 1.27 | 6.8 | 6.6 | 212.00 |  |  |  | 11,811 |  |  |  | 12,770 | 11,397 | 1,290 | 11,811 |  |  | 12,770 | 11,397 | 1,290 |
| 5/15/2012 | FALSE | FALSE | FALSE | 3.56 | 8.91 | 6.72 | 53\% | 40\% | 75\% |  | 1.33 | 6.8 | 6.6 | 231.00 | 170.00 | 0.74 |  | 12,946 | 9,528 |  |  | 12,781 | 11,190 | 1,290 | 12,946 | 9,528 |  | 12,781 | 11,190 | 1,290 |
| 5/16/2012 | FALSE | FALSE | FALSE | 3.55 | 8.90 | 6.74 | 53\% | 40\% | 76\% |  | 1.32 | 6.8 | 6.6 |  |  |  |  |  |  |  |  | 12,781 | 11,190 | 1,290 |  |  |  | 12,781 | 11,190 | 1,290 |
| 5/17/2012 | FALSE | FALSE | FALSE | 3.63 | 8.69 | 6.74 | 54\% | 42\% | 78\% |  | 1.29 | 6.8 | 6.6 | 284.00 |  |  | 21.07 | 15,964 |  | 1,184 |  | 13,324 | 11,190 | 1,365 | 15,964 |  | 1,184 | 13,324 | 11,190 | 1,365 |
| 5/18/2012 | FALSE | FALSE | FALSE | 3.55 | 8.76 | 6.65 | 53\% | 41\% | 76\% |  | 1.32 | 6.7 | 6.6 | 241.00 | 185.00 | 0.77 |  | 13,366 | 10,260 |  |  | 13,415 | 11,006 | 1,365 | 13,366 | 10,260 |  | 13,415 | 11,006 | 1,365 |
| 5/19/2012 | FALSE | FALSE | FALSE | 3.56 | 8.81 | 6.45 | 55\% | 40\% | 73\% |  | 1.37 | 6.7 | 6.6 |  |  |  |  |  |  |  |  | 13,415 | 11,006 | 1,365 |  |  |  | 13,415 | 11,006 | 1,365 |
| 5/20/2012 | FALSE | FALSE | FALSE | 3.51 | 8.85 | 6.47 | 54\% | 40\% | 73\% |  | 1.37 | 6.7 | 6.6 |  |  |  |  |  |  |  |  | 13,150 | 11,006 | 1,365 |  |  |  | 13,150 | 11,006 | 1,365 |
| 5/21/2012 | FALSE | FALSE | FALSE | 3.58 | 8.18 | 6.53 | 55\% | 44\% | 80\% |  | 1.25 | 6.7 | 6.6 | 238.00 |  |  |  | 12,962 |  |  |  | 13,150 | 10,962 | 1,365 | 12,962 |  |  | 13,150 | 10,962 | 1,365 |
| 5/22/2012 | FALSE | FALSE | FALSE |  |  | 6.42 |  |  |  | 'gMinMaxA' | 0.00 | 6.7 | 6.6 | 218.00 |  |  | 20.79 | 11,672 |  | 1,113 |  | 13,058 | 10,962 | 1,315 | 11,672 |  | 1,113 | 13,058 | 10,962 | 1,315 |
| 5/23/2012 | FALSE | FALSE | FALSE | 3.56 | 8.25 | 6.37 | 55\% | 43\% | 77\% |  | 1.30 | 6.7 | 6.6 |  |  |  |  |  |  |  |  | 13,058 | 10,962 | 1,315 |  |  |  | 13,058 | 10,962 | 1,315 |
| 5/24/2012 | FALSE | FALSE | FALSE | 3.54 | 8.42 | 6.44 | 55\% | 42\% | 76\% |  | 1.31 | 6.7 | 6.5 | 225.00 |  |  |  | 12,085 |  |  |  | 13,015 | 10,962 | 1,315 | 12,085 |  |  | 13,015 | 10,962 | 1,315 |
| 5/25/2012 | true | FALSE | FALSE | 3.80 | 8.02 | 6.30 | 60\% | 47\% | 79\% |  | 1.27 | 6.7 | 6.5 | 264.00 | 218.00 | 0.83 |  | 13,871 | 11,454 |  |  | 12,924 | 11,040 | 1,315 | 13,871 | 11,454 |  | 12,924 | 11,040 | 1,315 |
| 5/26/2012 | TRUE | FALSE | TRUE | 3.60 | 8.30 | ${ }_{6}^{6.06}$ | 59\% | 43\% | 73\% |  | 1.37 | 6.6 | 6.4 |  |  |  |  |  |  |  |  | 12,924 | 11,040 | 1,315 |  |  |  | 12,924 | 11,040 | 1,315 |
| 5/27/2012 | true | true | FALSE | 3.61 | 8.12 | 5.82 | 62\% | 44\% | 72\% |  | 1.40 | 6.6 | 6.3 |  |  |  |  |  |  |  |  | 12,924 | 11,040 | 1,169 |  |  |  | 12,924 | 11,040 | 1,169 |
| 5/28/2012 | ${ }_{\text {TRUE }}^{\text {TRUE }}$ | ${ }_{\text {TRUE }}^{\text {TRUE }}$ | ${ }_{\text {FALLSE }}$ | 3.55 3.46 3 | 8.31 9 | 6.01 | 59\% | 43\% | 72\% |  | 1.38 | 6.5 | 6.2 |  |  |  |  |  |  |  |  | 12,948 | 11,014 | 1,169 |  |  |  | 12,948 | 11,014 | 1,169 |
| 5/29/2012 | true | true | FALSE | 3.46 | 9.57 | 6.08 | 57\% | 36\% | 64\% |  | 1.57 | 6.5 | 6.2 | 137.00 | 188.00 | 1.37 |  | 6,947 | 9,533 |  |  | 12,572 | 10,828 | 1,169 | 6,947 | 9,533 |  | 12,572 | 10,828 | 1,169 1,169 |
| 5/30/2012 | TRUE | True | FALISE | 3.33 | 7.77 | 6.08 | 55\% | 43\% | 78\% |  | 1.28 | 6.5 | 6.1 |  |  |  |  |  |  |  |  | 12,572 | 10,828 | 1,169 |  |  |  | 12,572 | 10,828 | 1,169 1,145 1,185 |
| 5/31/2012 | true | true | FALSE | 3.64 | 7.79 | 6.12 | 59\% | 47\% | 79\% |  | 1.27 | 6.5 | 6.1 | 218.00 |  |  | 20.53 | 11,127 |  | 1,048 |  | 12,487 | 10,828 | 1,145 | 11,127 |  | 1,048 | 12,487 | 10,828 | 1,145 1,145 1,185 |
| 6/1/2012 | TRUE | True | FALSE | 3.75 | 7.79 | 6.04 | 62\% | 48\% | 78\% |  | 1.29 | 6.5 | 6.1 | 149.00 | 178.00 | 1.19 |  | 7,506 | 8,967 |  |  | 12,010 | 10,455 | 1,145 | 7,506 | 8,967 |  | 12,010 | 10,455 | 1,145 1,145 1,1 |
| 6/2/2012 | true | true | FALSE | 3.57 | 8.09 | 5.90 | 61\% | 44\% | 73\% |  | 1.37 | 6.4 | 6.0 |  |  |  |  |  |  |  |  | 12,010 | 10,455 | 1,145 |  |  |  | 12,010 | 10,455 | 1,145 1,145 1,1 |
| 6/3/2012 | TRUE | TRUE | FALSE | 3.80 | 7.60 | 5.92 | 64\% | 50\% | 78\% |  | 1.28 | 6.4 | 6.0 |  |  |  |  |  |  |  |  | 12,037 | 10,455 | 1,145 |  |  |  | 12,037 | 10,455 | 1,145 <br> 1,145 |
| 6/4/2012 $6 / 5 / 2012$ | TRUE TRUE | true | TRUE | 3.90 | 7.93 | 6.33 | 62\% | 49\% | 80\% |  | 1.25 | 6.4 | 6.1 | ${ }^{227.00}$ |  |  |  | 11,984 |  |  |  | ${ }^{11,796}$ | 10,375 | 1,145 | 11,984 |  |  | 11,796 | 10,375 | 1,145 1,145 |
| 6/5/2012 | TRUE TRUE | TRUE TRUE | FALSE | 3.66 3.70 | 7.60 7.40 | 6.16 6.07 | 59\% | 48\% | 81\% |  | 1.23 1.22 | 6.4 6.4 | 6.1 | 220.00 | 185.00 |  |  | 11,302 | 9,504 |  |  | 11,767 11,767 | 10,266 10,266 | 1,145 1,145 | 11,302 | 9,504 |  | 11,767 11,767 | 10,266 10,266 | 1,145 1,145 |
| 6/7/2012 | true | true | FALSE | 3.63 | 7.69 | 6.11 | 59\% | 47\% | 79\% |  | 1.26 | 6.3 | 6.1 |  |  |  | 19.24 |  |  | 980 |  | 11,771 | 10,266 | ${ }_{1,112}^{1,125}$ |  |  | 980 | 11,771 | 10,266 | 1,112 |


| Date | $\begin{aligned} & \text { Butte } \\ & \text { Break? } \end{aligned}$ | $\begin{gathered} \text { csu } \\ \text { Break? } \end{gathered}$ | Precip? | $\begin{gathered} \text { Min } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | $\begin{gathered} \text { Max } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | $\begin{gathered} \text { Avg } \\ \substack{\text { Influent } \\ \text { Flow, mgd }} \end{gathered}$ | Min \% of Avg | $\underset{\text { Max }}{\min _{2} \text { of }}$ | Avg \% of Max | $\begin{aligned} & \begin{array}{l} \text { Fow } \\ \text { Outlier } \\ \text { Type } \end{array} \end{aligned}$ | $\begin{aligned} & \text { Diurnal } \\ & \text { Peak } \\ & \text { Factor } \\ & \text { (DPF) } \end{aligned}$ | $\begin{gathered} \text { 30-d Avg } \\ \text { of Avg } \\ \text { Flow, mgd } \end{gathered}$ | 7-d Avg of Avg Flow, mgd | Influent TSS Conc., mg/L | Influent BOD Conc., mg/L | BOD/TSS Ratio | Influent NH3-N Conc., mg/L | Avg Inf TSS Load, ppd | Avg Inf BOD Load, ppd | Avg Inf NH3 Load, ppd | $\begin{aligned} & \text { Load } \\ & \text { Loutlier } \\ & \text { Type } \end{aligned}$ | $\begin{gathered} 30-\mathrm{d} \text { Avg } \\ \text { of TSS } \\ \text { ooad, ppd } \end{gathered}$ | 30-d Avg of BOD Load, ppd | 30-d Avg of NH3-N Load, ppd | $\begin{aligned} & \text { non-SN } \\ & \text { TSS Load, } \\ & \text { ppd } \end{aligned}$ | non-SN BOD Load, ppd | non-SN NH3 Load, ppd | 30-d Avg <br> of non-SN TSS Load, ppd | 30-d Avg <br> of non-SN BOD Load, ppd | 30-d Avg of non-SN NH3-N Load, ppo |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 6/8/2012 | True | True | FALSE | 3.60 | 7.88 | 5.98 | 60\% | 46\% | 76\% |  | 1.32 | 6.3 | 6.1 | 218.00 | 204.00 | 0.94 |  | 10,872 | 10,174 |  |  | 11,637 | 10,122 | 1,112 | 10,872 | 10,174 |  | 11,637 | 10,122 | 1,112 |
| 6/9/2012 | True | True | FALSE | 3.51 | 7.92 | 5.74 | 61\% | 44\% | 72\% |  | 1.38 | 6.3 | 6.0 |  |  |  |  |  |  |  |  | 11,637 | 10,122 | 1,112 |  |  |  | 11,637 | 10,122 | 1,112 |
| 6/10/2012 | true | true | FALSE | 3.57 | 7.63 | 5.76 | 62\% | 47\% | 75\% |  | 1.32 | 6.3 | 6.0 |  |  |  |  |  |  |  |  | 11,963 | 10,122 | 1,081 |  |  |  | 11,963 | 10,122 | 1,081 |
| 6/11/2012 | TRUE | true | FALSE | 3.63 | 7.91 | 6.07 | 60\% | 46\% | 77\% |  | 1.30 | 6.2 | 6.0 | 243.00 |  |  |  | 12,302 |  |  |  | 11,781 | 9,917 | 1,081 | 12,302 |  |  | 11,781 | 9,917 | 1,081 |
| 6/12/2012 | TRUE | True | FALSE | 3.63 | 7.71 | 6.05 | 60\% | 47\% | 78\% |  | 1.27 | 6.2 | 6.0 | 238.00 | 197.00 | 0.83 |  | 12,009 | 9,940 |  |  | 11,795 | 9,920 | 1,081 | 12,009 | 9,940 |  | 11,795 | 9,920 | 1,081 |
| 6/13/2012 | TRUE | TRUE | FALSE | 3.72 | 7.46 | 6.04 | 62\% | 50\% | 81\% |  | 1.24 | 6.2 | 6.0 |  |  |  |  |  |  |  |  | 11,795 | 9,920 | 1,081 |  |  |  | 11,795 | 9,920 | 1,081 |
| 6/14/2012 | True | true | FALSE | 3.76 | 7.46 | 6.10 | 62\% | 50\% | 82\% |  | 1.22 | 6.2 | 6.0 |  |  |  | 23.26 |  |  | 1,183 |  | 11,794 | 9,920 | 1,102 |  |  | 1,183 | 11,794 | 9,920 | 1,102 |
| 6/15/2012 | true | true | FALSE | 3.32 | 7.39 | 6.01 | 55\% | 45\% | 81\% |  | 1.23 | 6.2 | 6.0 | 261.00 | 199.00 | 0.76 |  | 13,082 | 9,975 |  |  | 11,803 | 9,976 | 1,102 | 13,082 | 9,975 |  | 11,803 | 9,976 | 1,102 |
| 6/16/2012 | true | true | FALSE | 3.92 | 7.42 | 5.74 | 68\% | 53\% | 77\% |  | 1.29 | 6.1 | 5.9 |  |  |  |  |  |  |  |  | 11,803 | 9,976 | 1,102 |  |  |  | 11,803 | 9,976 | 1,102 |
| 6/17/2012 | true | true | FALSE | 3.61 | 7.51 | 5.72 | 63\% | 48\% | 76\% |  | 1.31 | 6.1 | 5.9 |  |  |  |  |  |  |  |  | 11,506 | 9,976 | 1,081 |  |  |  | 11,506 | 9,976 | 1,081 |
| 6/18/2012 | true | true | FALSE | 3.70 | 7.13 | 6.06 | 61\% | 52\% | 85\% |  | 1.18 | 6.1 | 6.0 |  |  |  |  |  |  |  |  | 11,363 | 9,935 | 1,081 |  |  |  | 11,363 | 9,935 | 1,081 |
| 6/19/2012 | True | true | FALSE | 3.80 | 7.13 | 5.81 | 65\% | 53\% | 81\% |  | 1.23 | 6.1 | 5.9 | 202.00 | 160.00 | 0.79 |  | 9,788 | 7,753 |  |  | 11,251 | 9,662 | 1,081 | 9,788 | 7,753 |  | 11,251 | 9,662 | 1,081 |
| 6/20/2012 | True | true | FALSE | 3.44 | 7.38 | 5.83 | 59\% | 47\% | 79\% |  | 1.27 | 6.0 | 5.9 |  |  |  | 23.10 |  |  | 1,123 |  | 11,251 | 9,662 | 1,090 |  |  | 1,123 | 11,251 | 9,662 | 1,090 |
| 6/21/2012 | TRUE | true | FALSE | 3.68 | 7.08 | 5.87 | 63\% | 52\% | 83\% |  | 1.21 | 6.0 | 5.9 | 250.00 |  |  |  | 12,239 |  |  |  | 11,199 | 9,662 | 1,090 | 12,239 |  |  | 11,199 | 9,662 | 1,090 |
| 6/22/2012 | true | true | FALSE | 3.43 | 7.84 | 5.91 | 58\% | 44\% | 75\% |  | 1.33 | 6.0 | 5.9 | 218.00 | 188.00 | 0.86 |  | 10,745 | 9,266 |  |  | 11,133 | 9,618 | 1,084 | 10,745 | 9,266 |  | 11,133 | 9,618 | 1,084 |
| 6/23/2012 | true | true | FALSE | 3.46 | 7.38 | 5.62 | 62\% | 47\% | 76\% |  | 1.31 | 6.0 | 5.8 |  |  |  |  |  |  |  |  | 11,133 | 9,618 | 1,084 |  |  |  | 11,133 | 9,618 | 1,084 |
| 6/24/2012 | true | true | FALSE | 3.50 | 7.30 | 5.64 | 62\% | 48\% | 77\% |  | 1.29 | 6.0 | 5.8 |  |  |  |  |  |  |  |  | 11,060 | 9,618 | 1,084 |  |  |  | 11,060 | 9,618 | 1,084 |
| 6/25/2012 | TRUE | True | FALSE | 3.30 | 7.50 | 5.77 | 57\% | 44\% | 77\% |  | 1.30 | 5.9 | 5.8 | 241.00 |  |  |  | 11,597 |  |  |  | 10,885 | 9,389 | 1,084 | 11,597 |  |  | 10,885 | 9,389 | 1,084 |
| 6/26/2012 | True | true | FALSE | 3.22 | 7.26 | 5.76 | 56\% | 44\% | 79\% |  | 1.26 | 5.9 | 5.8 | 250.00 | 201.00 | 0.80 |  | 12,010 | 9,656 |  |  | 10,965 | 9,419 | 1,084 | 11,626 | 9,537 |  | 10,938 | 9,405 | 1,084 |
| 6/27/2012 | True | true | FALSE | 3.30 | 7.30 | 5.75 | 57\% | 45\% | 79\% |  | 1.27 | 5.9 | 5.8 |  |  |  |  |  |  |  |  | 10,965 | 9,419 | 1,084 |  |  |  | 10,938 | 9,405 | 1,084 |
| 6/28/2012 | true | true | FALSE | 3.20 | 7.50 | 5.76 | 56\% | 43\% | 77\% |  | 1.30 | 5.9 | 5.8 | 241.00 |  |  | 20.83 | 11,577 |  | 1,001 |  | 11,006 | 9,419 | 1,067 | 11,577 |  | 1,001 | 10,980 | 9,405 | 1,067 |
| 6/29/2012 | true | true | FALSE | 3.23 | 7.60 | 5.75 | 56\% | 43\% | 76\% |  | 1.32 | 5.9 | 5.7 | 250.00 | 201.00 | 0.80 |  | 11,989 | 9,639 |  |  | 11,342 | 9,430 | 1,067 | 11,989 | 9,639 |  | 11,316 | 9,417 | 1,067 |
| 6/30/2012 | TrUE | true | FALSE | 3.27 | 7.32 | 5.51 | 59\% | 45\% | 75\% |  | 1.33 | 5.9 | 5.7 |  |  |  |  |  |  |  |  | 11,342 | 9,430 | 1,067 |  |  |  | 11,316 | 9,417 | 1,067 |
| 7/1/2012 | TRUE | True | FALSE | 3.20 | 7.42 | 5.50 | 58\% | 43\% | 74\% |  | 1.35 | 5.9 | 5.7 |  |  |  |  |  |  |  |  | 11,357 | 9,430 | 1,072 |  |  |  | 11,330 | 9,417 | 1,072 |
| 7/2/2012 | true | true | FALSE | 3.34 | 7.46 | 5.78 | 58\% | 45\% | 77\% |  | 1.29 | 5.9 | 5.7 | 224.00 |  |  |  | 10,798 |  |  |  | 11,592 | 9,488 | 1,072 | 10,798 |  |  | 11,565 | 9,473 | 1,072 |
| 7/3/2012 | TRUE | TRUE | FALSE | 3.30 3 | 7.40 | 5.61 | 59\% | 45\% | 76\% |  | 1.32 | 5.9 | 5.7 | 239.00 | 207.00 | 0.87 |  | 11,182 | 9,685 |  |  | 11,565 | 9,510 | 1,072 | 11,182 | 9,685 |  | 11,539 | 9,497 | 1,072 |
| 7/4/2012 | True | true | FALSE | 3.27 | 7.72 | 5.30 | 62\% | 42\% | 69\% |  | 1.46 | 5.8 | 5.6 |  |  |  |  |  |  |  |  | 11,565 | 9,510 | 1,072 |  |  |  | 11,539 | 9,497 | 1,072 |
| 7/5/2012 | true | true | FALSE | 3.32 | 7.19 | 5.60 | 59\% | 46\% | 78\% |  | 1.28 | 5.8 | 5.6 |  |  |  | 18.15 |  |  | 848 |  | 11,535 | 9,510 | 1,027 |  |  | 848 | 11,508 | 9,497 | 1,027 |
| 7/6/2012 | true | true | FALSE | 3.30 | 7.40 | 5.61 | 59\% | 45\% | 76\% |  | 1.32 | 5.8 | 5.6 | 212.00 | 188.00 | 0.89 |  | 9,919 | 8,796 |  |  | 11,436 | 9,432 | 1,027 | 9,919 | 8,796 |  | 11,409 | 9,418 | 1,027 |
| 7/7/2012 | true | true | FALSE | 3.30 | 7.40 | 5.43 | 61\% | 45\% | 73\% |  | 1.36 | 5.8 | 5.5 |  |  |  |  |  |  |  |  | 11,436 | 9,432 | 1,027 |  |  |  | 11,409 | 9,418 | 1,027 |
| 78/2012 | true | true |  | 3.26 | 7.44 | 5.52 | 59\% | 44\% | 74\% |  | 1.35 | 5.8 | 5.5 |  |  |  |  |  |  |  |  | 11,436 | 9,432 | 1,039 |  |  |  | 11,409 | 9,418 | 1,039 |
| 7/9/2012 | TRUE | True | FALSE | 3.37 | 7.55 | 5.88 | 57\% | 45\% | 78\% |  | 1.28 | 5.8 | 5.6 | 220.00 |  |  |  | 10,789 |  |  |  | 11,430 | 9,339 | 1,039 | 10,789 |  |  | 11,403 | 9,324 | 1,039 |
| 7/10/2012 | true | true | FALSE | 3.40 | 7.34 | 5.83 | 58\% | 46\% | 79\% |  | 1.26 | 5.8 | 5.6 | 176.00 | 143.00 | 0.81 |  | 8,558 | 6,953 |  |  | 11,239 | 9,074 | 1,039 | 8,558 | 6,953 |  | 11,213 | 9,060 | 1,039 |
| 7/11/2012 | TRUE | True | FALSE | 3.65 | 7.40 | 5.85 | 62\% | 49\% | 79\% |  | 1.26 | 5.8 | 5.6 |  |  |  |  |  |  |  |  | 11,239 | 9,074 | 1,039 |  |  |  | 11,213 | 9,060 | 1,039 |
| 7/12/2012 | true | true | FALSE | 3.43 | 7.43 | 5.85 | 59\% | 46\% | 79\% |  | 1.27 | 5.8 | 5.7 |  |  |  | 17.19 |  |  | 839 |  | 11,163 | 9,074 | 999 |  |  | 839 | 11,136 | 9,060 | 999 |
| 7/13/2012 | TRUE | TRUE | FALSE | 3.55 | 7.62 | 5.84 | 61\% | 47\% | 77\% |  | 1.30 | 5.8 | 5.7 | 212.00 | 112.00 | 0.53 |  | 10,326 | 5,455 |  |  | 11,043 | 8,575 | 999 | 10,326 | 5,455 |  | 11,015 | 8,562 | 999 |
| 7/14/2012 | TRUE | TRUE | FALSE | 3.39 | 7.58 | 5.67 | 60\% | 45\% | 75\% |  | 1.34 | 5.7 | 5.7 |  |  |  |  |  |  |  |  | 11,043 | 8,575 | 999 |  |  |  | 11,015 | 8,562 | 999 |
| 7/15/2012 | true | true | FALSE | 3.50 | 7.40 | 5.65 | 62\% | 47\% | 76\% |  | 1.31 | 5.7 | 5.8 |  |  |  |  |  |  |  |  | 11,043 | 8,575 | 953 |  |  |  | 11,015 | 8,562 | 953 |
| 7/16/2012 | TRUE | TRUE | FALSE | 3.39 | 7.65 | 5.95 | 57\% | 44\% | 78\% |  | 1.29 | 5.7 | 5.8 | 165.00 |  |  | 20.13 | 8,188 |  | 999 |  | 10,693 | 8,400 | 962 | 8,188 |  | 999 | 10,666 | 8,385 | 962 |
| 7/17/2012 | True | true | FALSE | 3.60 | 7.20 | 5.95 | 61\% | 50\% | 83\% |  | 1.21 | 5.7 | 5.8 | 237.00 |  |  |  | 11,761 |  |  |  | 10,764 | 8,400 | 962 | 11,761 |  |  | 10,739 | 8,385 | 962 |
| 7/18/2012 | True | True | FALSE | 3.50 | 7.30 | 5.90 | 59\% | 48\% | 81\% |  | 1.24 | 5.7 | 5.8 |  |  |  |  |  |  |  |  | 10,764 | 8,400 | 962 |  |  |  | 10,739 | 8,385 | 962 |
| 7/19/2012 | TRUE | TRUE | FALSE | 3.68 | 7.27 | 5.88 | 63\% | 51\% | 81\% |  | 1.24 | 5.7 | 5.8 | 253.00 |  |  |  | 12,407 |  |  |  | 10,867 | 8,400 | 962 | 12,407 |  |  | 10,843 | 8,385 | 962 |
| 7/20/2012 | true | true | FALSE | 2.79 | 7.47 | 5.81 | 48\% | 37\% | 78\% |  | 1.29 | 5.7 | 5.8 | 273.00 |  |  |  | 13,228 |  |  |  | 11,082 | 8,493 | 962 | 13,228 |  |  | 11,058 | 8,476 | 962 |
| 7/21/2012 | true | true | FALSE | 3.38 | 7.47 | 5.57 | 61\% | 45\% | 75\% |  | 1.34 | 5.7 | 5.8 |  |  |  |  |  |  |  |  | 11,082 | 8,493 | 921 |  |  |  | 11,058 | 8,476 | 921 |
| 7/22/2012 | true | true | FALSE | 3.37 | 7.01 | 5.51 | 61\% | 48\% | 79\% |  | 1.27 | 5.7 | 5.8 |  |  |  |  |  |  |  |  | 11,005 | 8,493 | 921 |  |  |  | 10,979 | 8,476 | 921 |
| 7/23/2012 | TRUE | TRUE | FALSE | 3.37 | 7.23 | 5.91 | 57\% | 47\% | 82\% |  | 1.22 | 5.7 | 5.8 |  |  |  |  |  |  |  |  | 11,023 | 8,364 | 921 |  |  |  | 10,996 | 8,344 | 921 |
| 7/24/2012 | true | true | FALSE | 3.66 | 7.50 | 5.88 | 62\% | 49\% | 78\% |  | 1.28 | 5.7 | 5.8 | 229.00 |  |  |  | 11,230 |  |  |  | 11,037 | 8,364 | 921 | 11,106 |  |  | 11,003 | 8,344 | 921 |
| 7/25/2012 | TRUE | TRUE | FALSE | 3.54 | 7.16 | 5.84 | 61\% | 49\% | 82\% |  | 1.23 | 5.7 | 5.8 |  |  |  |  |  |  |  |  | 11,037 | 8,364 | 921 |  |  |  | 11,003 | 8,344 | 921 |
| 7/26/2012 | true | true | FALSE | 3.43 | 7.33 | 5.90 | 58\% | 47\% | 80\% |  | 1.24 | 5.7 | 5.8 | 226.00 |  |  | 18.77 | 11,121 |  | 924 |  | 11,005 | 8,364 | 922 | 11,121 |  | 924 | 10,971 | 8,344 | 922 |
| 7/27/2012 | TRUE | True | FALSE | 3.71 | 7.51 | 5.84 | 64\% | 49\% | 78\% |  | 1.29 | 5.7 | 5.8 | 253.00 | 182.00 | 0.72 |  | 12,323 | 8,864 |  |  | 11,026 | 8,232 | 922 | 12,323 | 8,864 |  | 11,018 | 8,232 | 922 |
| 7/28/2012 | true | true | FALSE | 3.51 | 7.11 | 5.51 | 64\% | 49\% | 77\% |  | 1.29 | 5.7 | 5.7 |  |  |  |  |  |  |  |  | 11,026 | 8,232 | 922 |  |  |  | 11,018 | 8,232 | 922 |
| 7/29/2012 | TRUE | TRUE | FALSE | 3.31 | 7.35 | 5.63 | 59\% | 45\% | 77\% |  | 1.31 | 5.7 | 5.8 |  |  |  |  |  |  |  |  | 10,987 | 8,232 | 902 |  |  |  | 10,978 | 8,232 | 902 |
| 7/30/2012 | TRUE | true | FALSE | 3.36 | 7.30 | 5.90 | 57\% | 46\% | 81\% |  | 1.24 | 5.7 | 5.8 | 308.00 |  |  |  | 15,155 |  |  |  | 11,213 | 7,951 | 902 | 15,155 |  |  | 11,204 | 7,951 | 902 |
| 7/31/2012 | True | True | FALSE | 3.44 | 7.10 | 5.85 | 59\% | 48\% | 82\% |  | 1.21 | 5.7 | 5.8 | 218.00 | 171.00 | 0.78 |  | 10,636 | 8,343 |  |  | 11,175 | 8,016 | 902 | 10,636 | 8,343 |  | 11,166 | 8,016 | 902 |
| 81/2012 | true | true | FALSE | 3.48 | 11.34 | 5.92 | 59\% | 31\% | 52\% | AvgMax | 1.92 | 5.7 | 5.8 |  |  |  |  |  |  |  |  | 11,175 | 8 8,016 | 902 |  |  |  | 11,166 | 8,016 | 902 |
| 8/2/2012 | TRUE | TRUE | FALSE | 3.56 | 7.14 | 5.89 | 60\% | 50\% | 82\% |  | 1.21 | 5.7 | 5.8 | 250.00 |  |  | 19.10 | 12,281 |  | 938 |  | 11,273 | 8,016 | 909 | 12,281 |  | 938 | 11,265 | 8.016 | 909 |
| 8/3/2012 | TRUE | TRUE | FALSE | 3.61 3 | 7.91 | 5.88 | ${ }^{61 \%}$ | 46\% | 74\% |  | 1.35 | 5.8 | 5.8 | 272.00 |  |  |  | 13,339 |  |  |  | 11,417 | 7.682 | 999 | 13,339 |  |  | 11,409 | 7,682 | 999 |
| 8/4/2012 | TRUE | TRUE | FALSE | 3.52 | 7.92 | 5.74 | 61\% | 44\% | 72\% |  | 1.38 | 5.8 | 5.8 |  |  |  |  |  |  |  |  | 11,417 | 7,682 | 909 |  |  |  | 11,409 | 7,682 | 909 |
| 8/5/2012 | TRUE | true | FALSE | 3.60 | 7.50 | 5.79 | 62\% | 48\% | 77\% |  | 1.30 | 5.8 | 5.8 |  |  |  |  |  |  |  |  | 11,417 | 7,682 | 925 |  |  |  | 11,409 | 7,682 7,404 7 | 925 |
| 8/6/2012 | TRUE | TRUE | FALSE | 3.60 | 7.90 | 6.07 | 59\% | 46\% | 77\% |  | 1.30 1.33 | 5.8 | 5.9 | 220.00 27100 |  |  |  | 11,137 |  |  |  | 11,498 <br> 11,622 <br> 11622 | 7,404 <br> 7,563 <br> , 583 | 9925 | 11,137 13,470 |  |  | 11,490 11,1414 | 7,404 7,563 | 925 |
| 87/2012 | TRUE | True | FALSE | 3.60 | 7.90 | 5.96 | 60\% | 46\% | 75\% |  | 1.33 | 5.8 | 5.9 | 271.00 | 165.00 | 0.61 |  | 13,470 | 8,202 |  |  | 11,622 | 7,563 | 925 | 13,470 | 8,202 |  | 11,614 | 7,563 | 925 925 |
| 8/8/2012 $8 / 9 / 2012$ | TrUE TRUE | TRUE TRUE | FALSE | 3.60 3.60 | 7.80 7.30 | 5.90 5.89 | 61\% | 46\% $49 \%$ | 76\% |  | 1.32 1.24 | 5.8 5.8 | 5.9 5.9 | 223.00 |  |  | 22.68 | 10,954 |  | 1,114 |  | ${ }_{1}^{11,622}$ | 7,563 7,563 | 925 963 | 10,954 |  | 1,114 | 11,614 11,624 | 7,563 7,563 | 925 963 |


| Date | $\begin{gathered} \text { Butte } \\ \text { Break? } \end{gathered}$ | $\underset{\text { Break? }}{\text { csu }}$ | Precip? | $\begin{gathered} \text { Min } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | $\begin{gathered} \text { Max } \\ \text { Influent } \\ \text { Flow, } \text { mgd } \end{gathered}$ | $\begin{gathered} \text { Avg } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | $\begin{gathered} \text { Min \% of } \\ \text { Avg } \end{gathered}$ | $\underset{\text { Max }}{\operatorname{Min}_{\text {max }}}$ | Avg \% of Max | $\begin{aligned} & \text { Flow } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | $\begin{aligned} & \text { Diurnal } \\ & \text { Peak } \\ & \text { Factor } \\ & \text { (DPF) } \end{aligned}$ | 30-d Avg of Avg Flow, mgd | 7-d Avg of Avg Flow, mgd | Influent TSS Conc., mg/L | $\begin{gathered} \text { Infiluent } \\ \text { BoD } \\ \text { conc., } \\ \mathrm{mg} / \mathrm{L} \end{gathered}$ | $\begin{gathered} \text { BOD/TSS } \\ \text { Ratio } \end{gathered}$ | Influent NH3-N Conc., mg/L | Avg linf TSS Load, ppd | Avg Inf BOD Load, ppd | Avg Inf NH3 Load, ppd | $\begin{aligned} & \text { Load } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | 30-d Avg of TSS Load, ppd | 30-d Avg of BOD Load, ppd | 30-d Avg of NH3-N Load, ppd | non-SN TSS Load, ppc | non-SN BOD Load, ppd | non-SN NH3 Load, ppd | $\begin{gathered} \text { 30-d Avg } \\ \text { of non-SN } \\ \text { TSS Load, } \\ \text { ppd } \end{gathered}$ | 30-d Avg of non-SN BOD Load ppd | $\begin{aligned} & \text { 30-d Avg } \\ & \text { of non-SN } \\ & \text { NH3-N } \\ & \text { Load, ppd } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 8/10/2012 | TRUE | TRUE | FALSE | 3.41 | 7.55 | 5.85 | 58\% | 45\% | 77\% |  | 1.29 | 5.8 | 5.9 | 222.00 | 186.00 | 0.84 |  | 10,831 | 9,075 |  |  | 11,774 | 7,988 | 963 | 10,831 | 9,075 |  | 11,766 | 7,988 | 963 |
| 8/11/2012 | TRUE | true | FALSE | 3.35 | 7.53 | 5.63 | 60\% | 44\% | 75\% |  | 1.34 | 5.8 | 5.9 |  |  |  |  |  |  |  |  | 11,774 | 7,988 | 963 |  |  |  | 11,766 | 7,988 | 963 |
| 8/12/2012 | TRUE | true | FALSE | 3.36 | 7.80 | 5.77 | 58\% | 43\% | 74\% |  | 1.35 | 5.8 | 5.9 |  |  |  |  |  |  |  |  | 11,774 | 7,988 | 994 |  |  |  | 11,766 | 7,988 | 994 |
| 8/13/2012 | true | TRUE | TRUE | 3.30 | 7.68 | 6.04 | 55\% | 43\% | 79\% |  | 1.27 | 5.8 | 5.9 | 221.00 |  |  |  | 11,133 |  |  |  | 11,825 | 8,621 | 994 | 11,133 |  |  | 11,817 | 8,621 | 994 |
| 8/14/2012 | TRUE | TRUE | FALSE | 3.37 | 7.74 | 6.07 | 56\% | 44\% | 78\% |  | 1.28 | 5.8 | 5.9 | 219.00 | 178.00 | 0.81 |  | 11,087 | 9,011 |  |  | 11,781 | 8,699 | 994 | 11,087 | 9,011 |  | 11,774 | 8,699 | 994 |
| 8/15/2012 | true | true | FALSE | 3.28 | 7.63 | 6.03 | 54\% | 43\% | 79\% |  | 1.27 | 5.8 | 5.9 |  |  |  |  |  |  |  |  | 11,781 | 8,699 | 994 |  |  |  | 11,774 | 8,699 | 994 |
| 8/16/2012 | TRUE | true | FALSE | 3.48 | 7.81 | 6.14 | 57\% | 45\% | 79\% |  | 1.27 | 5.9 | 5.9 |  |  |  | 21.39 |  |  | 1,095 |  | 12,006 | 8,699 | 1,018 |  |  | 1,095 | 11,998 | 8,699 | 1,018 |
| 8/17/2012 | TRUE | true | FALSE | 3.40 | 8.00 | 6.12 | 56\% | 43\% | 77\% |  | 1.31 | 5.9 | 6.0 | 224.00 | 171.00 | 0.76 |  | 11,433 | 8,728 |  |  | 11,985 | 8,704 | 1,018 | 11,433 | 8,728 |  | 11,978 | 8,704 | 1,018 |
| 8/18/2012 | TRUE | true | FALSE | 3.40 | 8.20 | 5.98 | 57\% | 41\% | 73\% |  | 1.37 | 5.9 | 6.0 |  |  |  |  |  |  |  |  | 11,985 | 8,704 | 1,018 |  |  |  | 11,978 | 8,704 | 1,018 |
| 8/19/2012 | TRUE | true | FALSE | 3.30 | 8.25 | 6.19 | 53\% | 40\% | 75\% |  | 1.33 | 5.9 | 6.0 |  |  |  |  |  |  |  |  | 11,957 | 8,704 | 1,018 |  |  |  | 11,949 | 8,704 | 1,018 |
| 8/20/2012 | TRUE | TRUE | FALSE | 3.32 | 8.25 | 6.29 | 53\% | 40\% | 76\% |  | 1.31 | 5.9 | 6.1 | 187.00 |  |  |  | 9,810 |  |  |  | 11,729 | 8,704 | 1,018 | 9,810 |  |  | 11,721 | 8,704 | 1,018 |
| 8/21/2012 | FALSE | TRUE | FALSE | 3.42 | 8.44 | 6.33 | 54\% | 41\% | 75\% |  | 1.33 | 5.9 | 6.1 | 179.00 | 190.00 | 1.06 |  | 9,450 | 10,031 |  |  | 11,587 | 8,893 | 1,018 | 9,450 | 10,031 |  | 11,579 | 8,893 | 1,018 |
| 8/22/2012 | FALSE | TRUE | FALSE | 3.35 | 8.67 | 6.41 | 52\% | 39\% | 74\% |  | 1.35 | 5.9 | 6.2 |  |  |  |  |  |  |  |  | 11,587 | 8,893 | 1,018 |  |  |  | 11,579 | 8,893 | 1,018 |
| 8/23/2012 | FALSE | TRUE | FALSE | 3.42 | 8.43 | 6.44 | 53\% | 41\% | 76\% |  | 1.31 | 6.0 | 6.2 |  |  |  |  |  |  |  |  | 11,587 | 8,893 | 1,018 |  |  |  | 11,579 | 8,893 | 1,018 |
| 8/24/2012 | FALSE | TRUE | FALSE | 3.47 | 8.21 | 6.34 | 55\% | 42\% | 77\% |  | 1.29 | 6.0 | 6.3 | 79.00 | 148.00 | 1.87 | 20.12 | 4,177 | 7,826 | 1,064 | TSS | 11,611 | 8,760 | 1,027 | 4,177 | 7,826 | 1,064 | 11,611 | 8,760 | 1,027 |
| 8/25/2012 | FALSE | TRUE | FALSE | 3.53 | 8.62 | 6.30 | 56\% | 41\% | 73\% |  | 1.37 | 6.0 | 6.3 |  |  |  |  |  |  |  |  | 11,611 | 8,760 | 1,027 |  |  |  | 11,611 | 8,760 | 1,027 |
| 8/26/2012 | FALSE | TRUE | FALSE | 3.62 | 8.71 | 6.42 | 56\% | 42\% | 74\% |  | 1.36 | 6.0 | 6.3 |  |  |  |  |  |  |  |  | 11,646 | 8,760 | 1,053 |  |  |  | 11,646 | 8,760 | 1,053 |
| 8/27/2012 | FALSE | TRUE | FALSE | 3.51 | 8.35 | 6.52 | 54\% | 42\% | 78\% |  | 1.28 | 6.0 | 6.4 | 234.00 |  |  |  | 12,724 |  |  |  | 11,674 | 8,745 | 1,053 | 12,724 |  |  | 11,674 | 8,745 | 1,053 |
| 8/28/2012 | FALSE | FALSE | FALSE | 3.29 | 9.89 | 6.46 | 51\% | 33\% | 65\% |  | 1.53 | 6.1 | 6.4 | 192.00 | 171.00 | 0.89 |  | 10,344 | 9,213 |  |  | 11,586 | 8,803 | 1,053 | 10,344 | 9,213 |  | 11,586 | 8,803 | 1,053 |
| 8/29/2012 | FALSE | FALSE | FALSE | 3.29 | 9.89 | 6.48 | 51\% | 33\% | 66\% |  | 1.53 | 6.1 | 6.4 |  |  |  |  |  |  |  |  | 11,586 | 8,803 | 1,053 |  |  |  | 11,586 | 8,803 | 1,053 |
| 8/30/2012 | FALSE | FALSE | FALSE | 3.53 | 8.73 | 6.52 | 54\% | 40\% | 75\% |  | 1.34 | 6.1 | 6.4 |  |  |  |  |  |  |  |  | 11,331 | 8,803 | 1,053 |  |  |  | 11,331 | 8,803 | 1,053 |
| 8/31/2012 | FALSE | FALSE | FALSE | 3.45 | 8.81 | 6.55 | 53\% | 39\% | 74\% |  | 1.35 | 6.1 | 6.4 | 247.00 | 185.00 | 0.75 | 18.50 | 13,493 | 10,106 | 1,011 |  | 11,535 | 9,024 | 1,044 | 13,493 | 10,106 | 1,011 | 11,535 | 9,024 | 1,044 |
| 9/1/2012 | FALSE | FALSE | FALSE | 3.40 | 8.86 | 6.24 | 54\% | 38\% | 70\% |  | 1.42 | 6.1 | 6.4 |  |  |  |  |  |  |  |  | 11,535 | 9,024 | 1,044 |  |  |  | 11,535 | 9,024 | 1,044 |
| 9/2/2012 | FALSE | FALSE | FALSE | 3.39 | 8.73 | 6.04 | 56\% | 39\% | 69\% |  | 1.45 | 6.1 | 6.4 |  |  |  |  |  |  |  |  | 11,477 | 9,024 | 1,071 |  |  |  | 11,477 | 9,024 | 1,071 |
| 9/3/2012 | FALSE | FALSE | FALSE | 3.46 | 9.26 | 6.54 | 53\% | 37\% | 71\% |  | 1.42 | 6.2 | 6.4 |  |  |  |  |  |  |  |  | 11,322 | 9,024 | 1,071 |  |  |  | 11,322 | 9,024 | 1,071 |
| 9/4/2012 | FALSE | FALSE | FALSE | 3.45 | 8.56 | 6.42 | 54\% | 40\% | 75\% |  | 1.33 | 6.2 | 6.4 | 196.00 | 176.00 | 0.90 |  | 10,494 | 9,424 |  |  | 11,259 | 9,068 | 1,071 | 10,494 | 9,424 |  | 111,259 | 9,068 | 1,071 |
| 9/5/2012 | FALSE | FALSE | FALSE | 3.47 | 8.37 | 6.52 | 53\% | 41\% | 78\% |  | 1.28 | 6.2 | 6.4 |  |  |  |  |  |  |  |  | 11,259 | 9,068 | 1,071 |  |  |  | 11,259 | 9,068 | 1,071 |
| 9/6/2012 | FALSE | FALSE | FALSE | 3.52 | 8.54 | 6.51 | 54\% | 41\% | 76\% |  | 1.31 | 6.2 | 6.4 | 228.00 |  |  | 20.44 | 12,379 |  | 1,110 |  | 11,354 | 9,068 | 1,079 | 12,379 |  | 1,110 | 11,354 | 9,068 | 1,079 |
| 9/7/2012 | FALSE | FALSE | FALSE | 3.35 | 9.75 | 6.45 | 52\% | 34\% | 66\% |  | 1.51 | 6.2 | 6.4 | 240.00 | 181.00 | 0.75 |  | 12,910 | 9,737 |  |  | 11,311 | 9,239 | 1,079 | 12,910 | 9,737 |  | 11,311 | 9,239 | 1,079 |
| 9/8/2012 | FALSE | FALSE | FALSE | 3.36 | 9.62 | 6.30 | 53\% | 35\% | 65\% |  | 1.53 | 6.3 | 6.4 |  |  |  |  |  |  |  |  | 11,311 | 9,239 | 1,079 |  |  |  | 11,311 | 9,239 | 1,079 |
| 9/9/2012 | FALSE | FALSE | FALSE | 3.40 | 9.12 | 6.36 | 53\% | 37\% | 70\% |  | 1.43 | 6.3 | 6.4 |  |  |  |  |  |  |  |  | 11,341 | 9,239 | 1,070 |  |  |  | 11,341 | 9,239 | 1,070 |
| 9/10/2012 | FALSE | FALSE | FALSE | 3.39 | 8.68 | 6.49 | 52\% | 39\% | 75\% |  | 1.34 | 6.3 | 6.4 | 191.00 |  |  |  | 10,338 |  |  |  | 11,300 | 9,259 | 1,070 | 10,338 |  |  | 11,300 | 9,259 | 1,070 |
| 9/11/2012 | FALSE | FALSE | FALSE | 3.36 | 8.64 | 6.46 | 52\% | 39\% | 75\% |  | 1.34 | 6.3 | 6.4 | 213.00 | 172.00 | 0.81 |  | 11,476 | 9,267 |  |  | 11,313 | 9,260 | 1,070 | 11,476 | 9,267 |  | 11,313 | 9,260 | 1,070 |
| 9/12/2012 | FALSE | FALSE | FALSE | 3.42 | 8.60 | 6.47 | 53\% | 40\% | 75\% |  | 1.33 | 6.3 | 6.4 |  |  |  |  |  |  |  |  | 11,313 | 9,260 | 1,070 |  |  |  | 11,313 | 9,260 | 1,070 |
| 9/13/2012 | FALSE | FALSE | FALSE | 3.38 | 8.66 | 6.45 | 52\% | 39\% | 74\% |  | 1.34 | 6.3 | 6.4 |  |  |  | 19.48 |  |  | 1,048 |  | 11,328 | 9,260 | 1,065 |  |  | 1,048 | 11,328 | 9,260 | 1,065 |
| 9/14/2012 | FALSE | FALSE | FALSE | 3.55 | 8.21 | 6.40 | 55\% | 43\% | 78\% |  | 1.28 | 6.4 | 6.4 | 212.00 | 172.00 | 0.81 |  | 11,316 | 9,181 |  |  | 11,347 | 9,279 | 1,065 | 11,316 | 9,181 |  | 11,347 | 9,279 | 1,065 |
| 9/15/2012 | FALSE | FALSE | FALSE | 3.49 | 8.63 | 6.18 | 56\% | 40\% | 72\% |  | 1.40 | 6.4 | 6.4 |  |  |  |  |  |  |  |  | 11,347 | 9,279 | 1,065 |  |  |  | 11,347 | 9,279 | 1,065 |
| 9/16/2012 | FALSE | FALSE | FALSE | 3.20 | 9.10 | 6.30 | 51\% | 35\% | 69\% |  | 1.44 | 6.4 | 6.4 |  |  |  |  |  |  |  |  | 11,347 | 9,279 | 1,058 |  |  |  | 11,347 | 9,279 | 1,058 |
| 9/17/2012 | FALSE | FALSE | FALSE | 3.40 | 8.50 | 6.44 | 53\% | 40\% | 76\% |  | 1.32 | 6.4 | 6.4 | 217.00 |  |  |  | 11,655 |  |  |  | 11,366 | 9,348 | 1,058 | 11,655 |  |  | 11,366 | 9,348 | 1,058 |
| 9/18/2012 | FALSE | FALSE | FALSE | 3.45 | 8.38 | 6.42 | 54\% | 41\% | 77\% |  | 1.31 | 6.4 | 6.4 | 259.00 | 172.00 | 0.66 |  | 13,868 | 9,209 |  |  | 11,558 | 9,332 | 1,058 | 13,868 | 9,209 |  | 11,558 | 9,332 | 1,058 |
| 9/19/2012 | FALSE | FALSE | FALSE | 3.40 | 8.50 | 6.38 | 53\% | 40\% | 75\% |  | 1.33 | 6.4 | 6.4 |  |  |  |  |  |  |  |  | 11,558 | 9,332 | 1,058 |  |  |  | 11,558 | 9,332 | 1,058 |
| 9/20/2012 | FALSE | FALSE | FALSE | 3.10 | 8.60 | 6.30 | 49\% | 36\% | 73\% |  | 1.37 | 6.4 | 6.4 | 230.00 |  |  | 25.81 | 12,085 |  | 1,356 |  | 11,733 | 9,332 | 1,118 | 12,085 |  | 1,356 | 11,733 | 9,332 | 1,118 |
| 9/21/2012 | FALSE | FALSE | FALSE | 3.14 | 8.21 | 6.26 | 50\% | 38\% | 76\% |  | 1.31 | 6.4 | 6.3 | 241.00 | 189.00 | 0.78 |  | 12,582 | 9,867 |  |  | 11,974 | 9,314 | 1,118 | 12,582 | 9,867 |  | 11,974 | 9,314 | 1,118 |
| 9/22/2012 | FALSE | FALSE | FALSE | 3.18 | 8.47 | 5.90 | 54\% | 38\% | 70\% |  | 1.44 | 6.4 | 6.3 |  |  |  |  |  |  |  |  | 11,974 | 9,314 | 1,118 |  |  |  | 11,974 | 9,314 | 1,118 |
| 9/23/2012 | FALSE | FALSE | FALSE | 3.05 | 8.70 | 6.09 | 50\% | 35\% | 70\% |  | 1.43 | 6.4 | 6.3 |  |  |  |  |  |  |  |  | 11,974 | 9,314 | 1,118 |  |  |  | 11,974 | 9,314 | 1,118 |
| 9/24/2012 | FALSE | FALSE | FALSE | 3.32 | 8.88 | 6.36 | 52\% | 37\% | 72\% |  | 1.40 | 6.4 | 6.3 | 213.00 |  |  |  | 11,298 |  |  |  | 11,926 | 9,500 | 1,131 | 11,298 |  |  | 11,926 | 9,500 | 1,131 |
| 9/25/2012 | FALSE | FALSE | FALSE | 3.21 | 8.44 | 6.26 | 51\% | 38\% | 74\% |  | 1.35 | 6.4 | 6.2 | 220.00 | 181.00 | 0.82 |  | 11,486 | 9,450 |  |  | 11,897 | 9,495 | 1,131 | 11,235 | 9,363 |  | 11,880 | 9,485 | 1,131 |
| 9/26/2012 | FALSE | FALSE | FALSE | 3.20 | 8.49 | 6.26 | 51\% | 38\% | 74\% |  | 1.36 | 6.4 | 6.2 |  |  |  |  |  |  |  |  | 11,897 | 9,495 | 1,131 |  |  |  | 11,880 | 9,485 | 1,131 |
| 9/27/2012 | FALSE | FALSE | FALSE | 3.14 | 8.30 | 6.21 | 51\% | 38\% | 75\% |  | 1.34 | 6.4 | 6.2 | 224.00 |  |  | 22.00 | 11,601 |  | 1,139 |  | 11,822 | 9,495 | 1,133 | 11,601 |  | 1,139 | 11,805 | 9,485 | 1,133 |
| 9/28/2012 | FALSE | FALSE | FALSE | 3.20 | 8.10 | 6.07 | 53\% | 40\% | 75\% |  | 1.33 | 6.3 | 6.2 | 239.00 | 191.00 | 0.80 |  | 12,099 | 9,669 |  |  | 11,939 | 9,545 | 1,133 | 12,099 | 9,669 |  | 11,922 | 9,536 | 1,133 |
| 9/29/2012 | FALSE | FALSE | FALSE | 3.20 | 8.20 | 5.84 | 55\% | 39\% | 71\% |  | 1.40 | 6.3 | 6.1 |  |  |  |  |  |  |  |  | 11,939 | 9,545 | 1,133 |  |  |  | 11,922 | 9,536 | 1,133 |
| 9/30/2012 | FALSE | FALSE | FALSE | 3.12 | 8.34 | 5.95 | 52\% | 37\% | 71\% |  | 1.40 | 6.3 | 6.1 |  |  |  |  |  |  |  |  | 11,939 | 9,545 | 1,133 |  |  |  | 11,922 | 9,536 | 1,133 |
| 10/1/2012 | FALSE | FALSE | FALSE | 3.05 | 9.37 | 6.28 | 49\% | 33\% | 67\% |  | 1.49 | 6.3 | 6.2 | 274.00 |  |  |  | 14,351 |  |  |  | 11,996 | 9,475 | 1,163 | 14,351 |  |  | 11,979 | 9,465 | 1,163 |
| 10/2/2012 | FALSE | FALSE | FALSE | 3.11 | 8.35 | 6.26 | 50\% | 37\% | 75\% |  | 1.33 | 6.3 | 6.1 | 132.00 | 134.00 | 1.02 |  | 6,892 | 6,996 |  |  | 11,677 | 9,200 | 1,163 | 6,892 | 6,996 |  | 11,661 | 9,190 | 1,163 |
| 10/3/2012 | FALSE | FALSE | FALSE | 3.20 | 8.31 | 6.26 | 51\% | 39\% | 75\% |  | 1.33 | 6.3 | 6.1 |  |  |  |  |  |  |  |  | 11,677 | 9,200 | 1,163 |  |  |  | 11,661 | 9,190 | 1,163 |
| 10/4/2012 | FALSE | FALSE | FALSE | 3.29 | 8.46 | 6.27 | 52\% | 39\% | 74\% |  | 1.35 | 6.3 | 6.1 |  |  |  | 21.76 |  |  | 1,138 |  | 11,677 | 9,200 | 1,158 |  |  | 1,138 | 11,661 | 9,190 | 1,158 |
| 10/5/2012 | FALSE | FALSE | FALSE | 3.31 | 8.51 | 6.24 | 53\% | 39\% | 73\% |  | 1.36 | 6.3 | 6.1 | 239.00 | 206.00 | 0.86 |  | 12,438 | 10,721 |  |  | 11,798 | 9,344 | 1,158 | 12,438 | 10,721 |  | ${ }^{111,783}$ | 9,334 | 1,158 |
| 10/6/2012 | FALSE | FALSE | FALSE | 3.24 | 8.72 | 6.09 | 53\% | 37\% | 70\% |  | 1.43 | 6.3 | 6.1 |  |  |  |  |  |  |  |  | 11,798 | 9,344 | 1,158 |  |  |  | 11,783 | 9,334 | 1,158 |
| 10/7/2012 | FALSE | FALSE | FALSE | 3.16 | 8.77 | 6.21 | 51\% | 36\% | 71\% |  | 1.41 | 6.3 | 6.2 |  |  |  |  |  |  |  |  | 11,760 | 9,344 | 1,170 |  |  |  | 11,743 | 9,334 | 1,170 |
| 10/8/2012 | FALSE | FALSE | FALSE | 3.12 | 9.64 | 6.38 | 49\% | 32\% | 66\% |  | 1.51 | 6.3 | 6.2 | 203.00 |  |  |  | 10,801 |  |  |  | 11,619 | 9,295 | 1,170 | 10,801 |  |  | 11,602 | 9,284 | 1,170 |
| 10/9/2012 | FALSE | FALSE | ${ }^{\text {FALSE }}$ | 3.56 <br> 3.34 | 8.72 8.24 | 6.30 | 57\% | 41\% | 72\% |  | 1.38 | ${ }_{6}^{6.3}$ | 6.3 | 211.00 |  |  |  | 11,086 |  |  |  | 11,586 | 9,295 | 1,170 | 11,086 |  |  | 11,570 | 9,284 | 1,170 1,170 |
| 10/10/2012 | FALSE | FALSE | FALSE | 3.34 | 8.24 | 6.28 | 53\% | 41\% | 76\% |  | 1.31 | 6.3 | 6.3 |  |  |  |  |  |  |  |  | 11,586 | 9,295 | 1,170 |  |  |  | 11,570 | 9,284 | 1,170 |
| 10/11/2012 | FALSE | FALSE | FALSE | 3.22 | 8.10 | 6.40 | 50\% | 40\% | 79\% |  | 1.27 | 6.3 | 6.3 | 231.00 | 216.00 | 0.94 | 21.77 | 12,330 | 11,529 | 1,162 |  | 11,710 | 9,543 | 1,169 | 12,330 | 11,529 | 1,162 | 11,695 | 9,534 | 1,169 |


| Date | $\begin{aligned} & \text { Butte } \\ & \text { Break? } \end{aligned}$ | $\underset{\text { Break? }}{\text { csu }}$ | Precip? | $\underset{\substack{\text { Min } \\ \text { Influent } \\ \text { Flow, mgd }}}{ }$ | $\begin{gathered} \text { Max } \\ \substack{\text { Influent } \\ \text { Flow, mgd }} \end{gathered}$ | $\begin{gathered} \text { Avg } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | $\underset{\text { Avg }}{\operatorname{Min} \% \text { of }}$ | $\min \% \text { of }_{\operatorname{Max}}$ | $\begin{aligned} & \text { Avg \% of } \\ & \text { Max } \end{aligned}$ | $\begin{aligned} & \text { Flow } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | $\begin{aligned} & \text { Diurnal } \\ & \text { Peak } \\ & \text { Factor } \\ & \text { (DPF) } \end{aligned}$ | 30-d Avg of Avg Flow, mgd | 7-d Avg of Avg Flow, mgd | Influent TSS Conc., mg/L | $\begin{aligned} & \text { Inifluent } \\ & \text { BoD } \\ & \text { Conc., } \\ & m \mathrm{~m} / \mathrm{L} \end{aligned}$ | $\underset{\text { Ratio }}{\text { BOD/TSS }}$ | Influent Conc., mg/L | Avg linf ppd | Avg Inf BOD Load, ppd | Avg inf NH3 Load, ppd | $\begin{gathered} \text { Load } \\ \text { Outlier } \\ \text { Type } \end{gathered}$ | 30-d Avg of TSS Load, ppd | 30-d Avg of BOD Load, ppd | 30-d Avg of NH3-N Load, ppd | non-SN ppd | $\begin{gathered} \text { non-SN } \\ \text { BoD Load, } \\ \text { ppd } \end{gathered}$ | non-SN NH3 Load, ppd | 30-d Avg of non-SN TSS Load, ppd | $\begin{gathered} \text { 30-d Avg } \\ \text { of non-SN } \\ \text { BOD Load, } \\ \text { ppd } \end{gathered}$ | 30-d Ave of non-SN NH3-N Load, pp |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 10/12/2012 | FALSE | FALSE | FALSE | 3.09 | 9.47 | 6.32 | 49\% | 33\% | 67\% |  | 1.50 | 6.3 | 6.3 |  |  |  |  |  |  |  |  | 11,726 | 9,578 | 1,169 |  |  |  | 11,709 | 9,567 | 1,169 |
| 10/13/2012 | FALSE | FALSE | FALSE | 3.11 | 9.53 | 6.01 | 52\% | 33\% | 63\% |  | 1.59 | 6.2 | 6.2 |  |  |  |  |  |  |  |  | 11,726 | 9,578 | 1,169 |  |  |  | 11,709 | 9,567 | 1,169 |
| 10/14/2012 | FALSE | FALSE | FALSE | 3.87 | 9.49 | 6.14 | 63\% | 41\% | 65\% |  | 1.55 | 6.2 | 6.3 |  |  |  |  |  |  |  |  | 11,726 | 9,578 | 1,199 |  |  |  | 11,709 | 9,567 | 1,199 |
| 10/15/2012 | FALSE | FALSE | FALSE | 3.11 | 9.57 | 6.31 | 49\% | 32\% | 66\% |  | 1.52 | 6.2 | 6.3 | 184.00 | 220.00 | 1.20 |  | 9,683 | 11,578 |  |  | 11,617 | 9,877 | 1,199 | 9,683 | 11,578 |  | 11,600 | 9,867 | 1,199 |
| 10/16/2012 | FALSE | FALSE | FALSE | 3.15 | 9.57 | 6.29 | 50\% | 33\% | 66\% |  | 1.52 | 6.2 | 6.3 | 276.00 |  |  |  | 14,479 |  |  |  | 11,796 | 9,877 | 1,199 | 14,479 |  |  | 11,780 | 9,867 | 1,199 |
| 10/17/2012 | FALSE | FALSE | FALSE | 3.17 | 12.04 | 6.18 | 51\% | 26\% | 51\% | AvgMax | 1.95 | 6.2 | 6.3 |  |  |  |  |  |  |  |  | 11,796 | 9,877 | 1,199 |  |  |  | 11,780 | 9,867 | 1,199 |
| 10/18/2012 | FALSE | FALSE | FALSE | 3.19 | 8.96 | 6.15 | 52\% | 36\% | 69\% |  | 1.46 | 6.2 | 6.2 |  |  |  | 23.69 |  |  | 1,215 |  | 11,805 | 9,877 | 1,202 |  |  | 1,215 | 11,788 | 9,867 | 1,202 |
| 10/19/2012 | FALSE | FALSE | FALSE | 3.27 | 8.77 | 6.00 | 55\% | 37\% | 68\% |  | 1.46 | 6.2 | 6.2 | 218.00 | 199.00 | 0.91 |  | 10,909 | 9,958 |  |  | 11,608 | 9,971 | 1,202 | 10,909 | 9,958 |  | 11,591 | 9,960 | 1,202 |
| 10/20/2012 | FALSE | FALSE | FALSE | 3.35 | 8.63 | 5.70 | 59\% | 39\% | 66\% |  | 1.51 | 6.2 | 6.1 |  |  |  |  |  |  |  |  | 11,608 | 9,971 | 1,202 |  |  |  | 11,591 | 9,960 | 1,202 |
| 10/21/2012 | FALSE | FALSE | false | 3.09 | 11.11 | 6.41 | 48\% | 28\% | 58\% | AvgMax | 1.73 | 6.2 | 6.1 |  |  |  |  |  |  |  |  | 11,574 | 9,971 | 1,164 |  |  |  | 11,556 | 9,960 | 1,164 |
| 10/22/2012 | FALSE | FALSE | TRUE | 3.17 | 10.15 | 6.55 | 48\% | 31\% | 65\% |  | 1.55 | 6.2 | 6.2 | 232.00 | 210.00 | 0.91 |  | 12,673 | 11,472 |  |  | 11,580 | 10,171 | 1,164 | 12,673 | 11,472 |  | 11,563 | 10,161 | 1,164 |
| 10/23/2012 | FALSE | FALSE | FALSE | 3.29 | 9.73 | 6.56 | 50\% | 34\% | 67\% |  | 1.48 | 6.2 | 6.2 | 214.00 |  |  |  | 11,708 |  |  |  | 11,589 | 10,171 | 1,164 | 11,708 |  |  | 11,572 | 10,161 | 1,164 |
| 10/24/2012 | FALSE | FALSE | true | 3.17 | 9.86 | 6.56 | 48\% | 32\% | 67\% |  | 1.50 | 6.2 | 6.3 |  |  |  |  |  |  |  |  | 11,589 | 10,171 | 1,164 |  |  |  | 11,572 | 10,161 | 1,164 |
| 10/25/2012 | FALSE | FALSE | FALSE | 3.09 | 9.37 | 6.38 | 48\% | 33\% | 68\% |  | 1.47 | 6.2 | 6.3 |  |  |  | 22.79 |  |  | 1,213 |  | 11,610 | 10,171 | 1,173 |  |  | 1,213 | 11,592 | 10,161 | 1,173 |
| 10/26/2012 | FALSE | FALSE | FALSE | 3.13 | 8.89 | 6.28 | 50\% | 35\% | 71\% |  | 1.42 | 6.2 | 6.3 | 206.00 | 185.00 | 0.90 |  | 10,789 | 9,689 |  |  | 11,560 | 10,201 | 1,173 | 10,789 | 9,689 |  | 11,560 | 10,201 | 1,173 |
| 10/27/2012 | FALSE | FALSE | FALSE | 3.16 | 9.56 | 6.15 | 51\% | 33\% | 64\% |  | 1.55 | 6.2 | 6.3 |  |  |  |  |  |  |  |  | 11,560 | 10,201 | 1,173 |  |  |  | 11,560 | 10,201 | 1,173 |
| 10/28/2012 | FALSE | FALSE | FALSE | 3.20 | 9.60 | 6.17 | 52\% | 33\% | 64\% |  | 1.56 | 6.2 | 6.4 |  |  |  |  |  |  |  |  | 11,557 | 10,201 | 1,182 |  |  |  | 11,557 | 10,201 | 1,182 |
| 10/29/2012 | FALSE | FALSE | false | 3.20 | 9.50 | 6.20 | 52\% | 34\% | 65\% |  | 1.53 | 6.2 | 6.4 |  |  |  |  |  |  |  |  | 11,512 | 10,277 | 1,182 |  |  |  | 11,512 | 10,277 | 1,182 |
| 10/30/2012 | FALSE | FALSE | FALSE | 3.20 | 9.40 | 6.14 | 52\% | 34\% | 65\% |  | 1.53 | 6.2 | 6.3 | 288.00 | 202.00 | 0.70 |  | 14,748 | 10,344 |  |  | 11,761 | 10,286 | 1,182 | 14,748 | 10,344 |  | 11,761 | 10,286 | 1,182 |
| 10/31/2012 | FALSE | FALSE | TRUE | 3.20 | 9.30 | 6.49 | 49\% | 34\% | 70\% |  | 1.43 | 6.3 | 6.3 |  |  |  |  |  |  |  |  | 11,761 | 10,286 | 1,182 |  |  |  | 11,761 | 10,286 | 1,182 |
| 11/1/2012 | FALSE | FALSE | FALSE | 3.20 | 9.30 | 6.50 | 49\% | 34\% | 70\% |  | 1.43 | 6.3 | 6.3 |  |  |  | 23.32 |  |  | 1,264 |  | 11,545 | 10,286 | 1,198 |  |  | 1,264 | 11,545 | 10,286 | 1,198 |
| 11/2/2012 | false | FALSE | true | 3.22 | 9.37 | 6.42 | 50\% | 34\% | 69\% |  | 1.46 | 6.3 | 6.3 | 236.00 |  |  |  | 12,636 |  |  |  | 12,023 | 10,756 | 1,198 | 12,636 |  |  | 12,023 | 10,756 | 1,198 |
| 11/3/2012 | FALSE | FALSE | FALSE | 3.10 | 9.67 | 6.35 | 49\% | 32\% | 66\% |  | 1.52 | 6.3 | 6.3 |  |  |  |  |  |  |  |  | 12,023 | 10,756 | 1,198 |  |  |  | 12,023 | 10,756 | 1,198 |
| 11/4/2012 | FALSE | FALSE | FALSE | 3.18 | 9.50 | 6.15 | 52\% | 33\% | 65\% |  | 1.54 | 6.3 | 6.3 |  |  |  |  |  |  |  |  | 12,023 | 10,756 | 1,213 |  |  |  | 12,023 | 10,756 | 1,213 |
| 11/5/2012 | FALSE | FALSE | FALSE | 3.13 | 9.43 | 6.32 | 50\% | 33\% | 67\% |  | 1.49 | 6.3 | 6.3 | 197.00 |  |  |  | 10,384 |  |  |  | 11,852 | 10,762 | 1,213 | 10,384 |  |  | 11,852 | 10,762 | 1,213 |
| 11/6/2012 | FALSE | FALSE | FALSE | 3.21 | 8.63 | 6.12 | 52\% | 37\% | 71\% |  | 1.41 | 6.3 | 6.3 | 313.00 | 212.00 | 0.68 |  | 15,976 | 10,821 |  |  | 12,169 | 10,770 | 1,213 | 15,976 | 10,821 |  | 12,169 | 10,770 | 1,213 |
| 11/7/2012 | FALSE | FALSE | FALSE | 3.16 | 8.80 | 6.21 | 51\% | 36\% | 71\% |  | 1.42 | 6.3 | 6.3 |  |  |  |  |  |  |  |  | 12,169 | 10,770 | 1,213 |  |  |  | 12,169 | 10,770 | 1,213 |
| 11/8/2012 | FALSE | FALSE | TRUE | 3.14 | 9.57 | 6.21 | 51\% | 33\% | 65\% |  | 1.54 | 6.3 | 6.3 | 254.00 | 213.00 | 0.84 |  | 13,155 | 11,032 |  |  | 12,350 | 10,803 | 1,213 | 13,155 | 11,032 |  | 12,350 | 10,803 | 1,213 |
| 11/9/2012 | FALSE | FALSE | FALSE | 3.21 | 9.04 | 6.42 | 50\% | 36\% | 71\% |  | 1.41 | 6.3 | 6.3 | 243.00 |  |  | 24.19 | 13,011 |  | 1,295 |  | 12,498 | 10,803 | 1,230 | 13,011 |  | 1,295 | 12,498 | 10,803 | 1,230 |
| 11/10/2012 | FALSE | FALSE | FALSE | 3.14 | 9.20 | 5.97 | 53\% | 34\% | 65\% |  | 1.54 | 6.3 | 6.2 |  |  |  |  |  |  |  |  | 12,498 | 10,803 | 1,230 |  |  |  | 12,498 | 10,803 | 1,230 |
| 11/11/2012 | FALSE | FALSE | FALSE | 3.10 | 8.90 | 5.88 | 53\% | 35\% | 66\% |  | 1.51 | 6.2 | 6.2 |  |  |  |  |  |  |  |  | 12,513 | 10,699 | 1,247 |  |  |  | 12,513 | 10,699 | 1,247 |
| 11/12/2012 | FALSE | FALSE | FALSE | 3.10 | 8.90 | 6.31 | 49\% | 35\% | 71\% |  | 1.41 | 6.2 | 6.2 |  |  |  |  |  |  |  |  | 12,513 | 10,699 | 1,247 |  |  |  | 12,513 | 10,699 | 1,247 |
| 11/13/2012 | FALSE | FALSE | FALSE | 3.12 | 9.15 | 6.25 | 50\% | 34\% | 68\% |  | 1.46 | 6.2 | 6.2 | 222.00 | 199.00 | 0.90 |  | 11,572 | 10,373 |  |  | 12,440 | 10,658 | 1,247 | 11,572 | 10,373 |  | 12,440 | 10,658 | 1,247 |
| 11/14/2012 | FALSE | FALSE | FALSE | 3.10 | 9.27 | 6.21 | 50\% | 33\% | 67\% |  | 1.49 | 6.3 | 6.2 |  |  |  |  |  |  |  |  | 12,440 | 10,658 | 1,247 |  |  |  | 12,440 | 10,658 | 1,247 |
| 11/15/2012 | FALSE | FALSE | FALSE | 3.04 | 9.05 | 6.16 | 49\% | 34\% | 68\% |  | 1.47 | 6.2 | 6.2 | 227.00 |  |  | 22.52 | 11,662 |  | 1,157 |  | 12,592 | 10,527 | 1,229 | 11,662 |  | 1,157 | 12,592 | 10,527 | 1,229 |
| 11/16/2012 | FALSE | TRUE | TRUE | 3.12 | 9.06 | 6.21 | 50\% | 34\% | 69\% |  | 1.46 | 6.2 | 6.2 |  |  |  |  |  |  |  |  | 12,435 | 10,527 | 1,229 |  |  |  | 12,435 | 10,527 | 1,229 |
| 11/17/2012 | FALSE | TRUE | TRUE | 3.54 | 11.66 | 7.51 | 47\% | 30\% | 64\% |  | 1.55 | 6.3 | 6.3 |  |  |  |  |  |  |  |  | 12,435 | 10,527 | 1,229 |  |  |  | 12,435 | 10,527 | 1,229 |
| 11/18/2012 | FALSE | TRUE | FALSE | 3.41 | 9.99 | 6.56 | 52\% | 34\% | 66\% |  | 1.52 | 6.3 | 6.4 |  |  |  |  |  |  |  |  | 12,435 | 10,527 | 1,232 |  |  |  | 12,435 | 10,527 | 1,232 |
| 11/19/2012 | FALSE | TRUE | FALSE | 3.32 | 10.60 | 6.44 | 52\% | 31\% | 61\% |  | 1.65 | 6.3 | 6.5 | 180.00 |  |  |  | 9,668 |  |  |  | 12,332 | 10,622 | 1,232 | 9,668 |  |  | 12,332 | 10,622 | 1,232 |
| 11/20/2012 | FALSE | TRUE | TRUE | 3.45 | 8.66 | 6.64 | 52\% | 40\% | 77\% |  | 1.30 | 6.3 | 6.5 | 177.00 |  |  | 22.80 | 9,802 |  | 1,263 |  | 12,137 | 10,622 | 1,238 | 9,802 |  | 1,263 | 12,137 | 10,622 | 1,238 |
| 11/21/2012 | TRUE | TRUE | FALSE | 3.41 | 9.21 | 6.53 | 52\% | 37\% | 71\% |  | 1.41 | 6.4 | 6.5 | 243.00 | 189.00 | 0.78 |  | 13,234 | 10,293 |  |  | 12,216 | 10,575 | 1,238 | 13,234 | 10,293 |  | 12,216 | 10,575 | 1,238 |
| 11/22/2012 | TRUE | TRUE | FALSE | 3.53 | 9.47 | 6.00 | 59\% | 37\% | 63\% |  | 1.58 | 6.3 | 6.5 |  |  |  |  |  |  |  |  | 12,180 | 10,425 | 1,238 |  |  |  | 12,180 | 10,425 | 1,238 |
| 11/23/2012 | TRUE | TRUE | FALSE | 3.54 | 8.67 | 6.27 | 56\% | 41\% | 72\% |  | 1.38 | 6.3 | 6.5 |  |  |  |  |  |  |  |  | 12,220 | 10,425 | 1,238 |  |  |  | 12,220 | 10,425 | 1,238 |
| 11/24/2012 | TRUE | TRUE | TRUE | 3.45 | 9.37 | 6.35 | 54\% | 37\% | 68\% |  | 1.48 | 6.3 | 6.5 |  |  |  |  |  |  |  |  | 12,220 | 10,425 | 1,238 |  |  |  | 12,220 | 10,425 | 1,238 |
| 11/25/2012 | TRUE | TRUE | FALSE | 3.50 | 9.06 | 6.67 | 52\% | 39\% | 74\% |  | 1.36 | 6.3 | 6.4 |  |  |  |  |  |  |  |  | 12,220 | 10,425 | 1,245 |  |  |  | 12,220 | 10,425 | 1,245 |
| 11/26/2012 | TRUE | TRUE | FALSE | 3.47 | 9.54 | 6.67 | 52\% | 36\% | 70\% |  | 1.43 | 6.3 | 6.4 | 208.00 |  |  |  | 11,571 |  |  |  | 12,285 | 10,572 | 1,245 | 11,571 |  |  | 12,285 | 10,572 | 1,245 |
| 11/27/2012 | FALSE | FALSE | FALSE | 3.24 | 8.72 | 6.33 | 51\% | 37\% | 73\% |  | 1.38 | 6.3 | 6.4 | 210.00 |  |  | 22.71 | 11,086 |  | 1,199 |  | 12,193 | 10,572 | 1,236 | 11,086 |  | 1,199 | 12,193 | 10,572 | 1,236 |
| 11/28/2012 | FALSE | FALSE | TRUE | 3.44 | 9.73 | 7.09 | 49\% | 35\% | 73\% |  | 1.37 | 6.4 | 6.5 | 288.00 |  |  |  | 17,030 |  |  |  | 12,538 | 10,572 | 1,236 | 17,030 |  |  | 12,538 | 10,572 | 1,236 |
| 11/29/2012 | FALSE | FALSE | true | 3.47 | 13.15 | 8.32 | 42\% | 26\% | 63\% | MinAvg | 1.58 | 6.4 | 6.5 | 314.00 | 225.00 | 0.72 |  | 21,788 | 15,612 |  | TSS | 12,538 | 11,412 | 1,236 | 21,430 | 15,511 |  | 12,538 | 11,396 | 1,236 |
| 11/30/2012 | FALSE | FALSE | TRUE | 5.70 | 13.80 | 10.94 | 52\% | 41\% | 79\% |  | 1.26 | 6.5 | 7.2 | 265.00 |  |  |  | 24,178 |  |  | TSS | 12,368 | 11,626 | 1,236 | 24,178 |  |  | 12,368 | 11,606 | 1,236 |
| 12/1/2012 | FALSE | FALSE | TRUE | 5.60 | 12.30 | 10.08 | 56\% | 46\% | 82\% |  | 1.22 | 6.7 | 7.7 |  |  |  |  |  |  |  |  | 12,368 | 11,626 | 1,236 |  |  |  | 12,368 | 11,606 | 1,236 |
| 12/2/2012 | FALSE | FALSE | true | 7.55 | 15.84 | 11.70 | 65\% | 48\% | 74\% |  | 1.35 | 6.8 | 8.5 |  |  |  |  |  |  |  |  | 12,368 | 11,626 | 1,228 |  |  |  | 12,368 | 11,606 | 1,228 |
| 12/3/2012 | FALSE | FALSE | TRUE | 5.60 | 12.68 | 9.39 | 60\% | 44\% | 74\% |  | 1.35 | 6.9 | 8.9 | 154.00 |  |  |  | 12,060 |  |  |  | 12,324 | 11,626 | 1,228 | 12,060 |  |  | 12,324 | 11,606 | 1,228 |
| 12/4/2012 | FALSE | FALSE | TRUE | 4.93 | 12.33 | 9.80 | 50\% | 40\% | 79\% |  | 1.26 | 7.0 | 9.3 | 202.00 | 148.00 | 0.73 |  | 16,510 | 12,096 |  |  | 12,623 | 11,704 | 1,228 | 16,510 | 12,096 |  | 12,623 | 11,688 | 1,228 |
| 12/5/2012 | FALSE | FALSE | TRUE | 5.55 | 13.08 | 10.19 | 54\% | 42\% | 78\% |  | 1.28 | 7.2 | 9.9 |  |  |  |  |  |  |  |  | 12,623 | 11,704 | 1,228 |  |  |  | 12,623 | 11,688 | 1,228 |
| 12/6/2012 | FALSE | FALSE | TRUE | 5.03 | 11.44 | 8.95 | 56\% | 44\% | 78\% |  | 1.28 | 7.3 | 10.2 | 166.00 |  |  | 10.67 | 12,391 |  | 796 |  | 12,766 | 11,704 | 1,142 | 12,391 |  | 796 | 12,766 | 11,688 | 1,142 |
| 12/7/2012 | FALSE | FALSE | FALSE | 4.48 | 10.68 | 8.22 | 55\% | 42\% | 77\% |  | 1.30 | 7.3 | 9.9 | 171.00 | 141.00 | 0.82 |  | 11,723 | 9,666 |  |  | 12,462 | 11,512 | 1,142 | 11,723 | 9,666 |  | 12,462 | 11,495 | 1,142 |
| 12/8/2012 | FALSE | FALSE | FALSE | 3.71 | 10.73 | 7.55 | 49\% | 35\% | 70\% |  | 1.42 | 7.4 | 9.5 |  |  |  |  |  |  |  |  | 12,462 | 11,512 | 1,142 |  |  |  | 12,462 | 11,495 | 1,142 |
| 12/9/2012 | FALSE | FALSE | FALSE | 3.50 | 10.70 | 7.25 | 48\% | 33\% | 68\% |  | 1.48 | 7.4 | 9.1 |  |  |  |  |  |  |  |  | 12,409 | 11,608 | 1,142 |  |  |  | 12,409 | 11,588 | 1,142 |
| 12/10/2012 | FALSE | FALSE | FALSE | 3.60 | 9.60 | 7.23 | 50\% | 38\% | 75\% |  | 1.33 | 7.4 | 8.6 | 173.00 |  |  |  | 10,432 |  |  |  | 12,211 | 11,608 | 1,104 | 10,432 |  |  | 12,211 | 11,588 | 1,104 |
| 12/11/2012 | FALSE | FALSE | FALSE | 3.70 | 9.50 | 7.12 | 52\% | 39\% | 75\% |  | 1.33 | 7.5 | 8.3 | 237.00 | 178.00 | 0.75 |  | 14,073 | 10,570 |  |  | 12,344 | 11,435 | 1,104 | 14,073 | 10,570 |  | 12,344 | 11,418 | 1,104 |
| 12/12/2012 | FALSE | FALSE | FALSE | 3.60 | 9.60 | 6.97 | 52\% | 38\% | 73\% |  | 1.38 | 7.5 | 7.9 |  |  |  |  |  |  |  |  | 12,344 | 11,435 | 1,104 |  |  |  | 12,344 | 11,418 | 1,104 |
| 12/13/2012 | FALSE | FALSE | FALSE | 3.50 | 9.20 | 6.89 | 51\% | 38\% | 75\% |  | 1.34 | 7.5 | 7.5 |  |  |  | 22.31 |  |  | 1,282 |  | 12,344 | 11,435 | 1,139 |  |  | 1,282 | 12,344 | 11,418 | 1,139 |


| Date | $\begin{aligned} & \text { Butte } \\ & \text { Break? } \end{aligned}$ | $\begin{gathered} \text { CSU } \\ \text { Break? } \end{gathered}$ | Precip? | $\begin{gathered} \min _{\substack{\text { Influent } \\ \text { Flow, mgd }}} \end{gathered}$ | $\begin{gathered} \text { Max } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | $\begin{gathered} \text { Avg } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | Min \% of Avg | Min \% of Max | Avg \% of $\operatorname{Max}$ | $\begin{aligned} & \text { Flow } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | $\begin{aligned} & \text { Diurnal } \\ & \text { Peak } \\ & \text { Factor } \\ & \text { (DPF) } \end{aligned}$ | $\begin{gathered} 30-\mathrm{dvg} \\ \text { of Avg } \\ \text { Flow, mgd } \end{gathered}$ | 7-d Avg of <br> Avg Flow, mgd | Influent TSS Conc., mg/L | Influent BOD Conc., mg/l | BOD/TSS Ratio | Influent NH3-N Conc., mg/L | Avg linf TSS Load, ppd | Avg Inf BOD Load, ppd | Avg Inf NH3 Load, ppd | $\begin{aligned} & \text { Load } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | 30-d Avg of TSS Load, ppd | 30-d Avg of BOD Load, ppd | 30-d Avg of NH3-N Load, ppd | $\begin{gathered} \text { non-SN } \\ \text { TSS Load, } \\ \text { ppd } \end{gathered}$ | $\begin{gathered} \text { non-SN } \\ \text { BOD Load, } \\ \text { ppd } \end{gathered}$ | non-SN NH3 Load, ppd | $\begin{gathered} \text { 30-d Avg } \\ \text { of non-SN } \\ \text { TSS Load, } \\ \text { ppd } \end{gathered}$ | 30-d Avg <br> of non-SN BOD Load, ppd | 30-d Avg of non-SN Load, ppd |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12/14/2012 | FALSE | FALSE | FALSE | 3.47 | 9.02 | 6.76 | 51\% | 38\% | 75\% |  | 1.33 | 7.6 | 7.2 | 232.00 | 180.00 | 0.78 |  | 13,080 | 10,148 |  |  | 12,451 | 11,398 | 1,139 | 13,080 | 10,148 |  | 12,451 | 11,381 | 1,139 |
| 12/15/2012 | FALSE | FALSE | TRUE | 3.29 | 10.16 | 6.65 | 49\% | 32\% | 65\% |  | 1.53 | 7.6 | 7.1 |  |  |  |  |  |  |  |  | 12,451 | 11,398 | 1,139 |  |  |  | 12,451 | 11,381 | 1,139 |
| 12/16/2012 | TRUE | FALSE | TRUE | 3.40 | 10.33 | 7.00 | 49\% | 33\% | 68\% |  | 1.48 | 7.6 | 7.0 |  |  |  |  |  |  |  |  | 12,512 | 11,398 | 1,135 |  |  |  | 12,512 | 11,381 | 1,135 |
| 12/17/2012 | TRUE | FALSE | TRUE | 3.55 | 9.41 | 7.20 | 49\% | 38\% | 77\% |  | 1.31 | 7.6 | 7.0 | 117.00 |  |  |  | 7,026 |  |  |  | 12,120 | 11,398 | 1,135 | 7,026 |  |  | 12,120 | 11,381 | 1,135 |
| 12/18/2012 | TRUE | FALSE | FALSE | 3.49 | 10.16 | 7.08 | 49\% | 34\% | 70\% |  | 1.44 | 7.6 | 7.0 | 227.00 | 172.00 | 0.76 |  | 13,404 | 10,156 |  |  | 12,206 | 11,220 | 1,135 | 13,404 | 10,156 |  | 12,206 | 11,206 | 1,135 |
| 12/19/2012 | TRUE | FALSE | FALSE | 3.42 | 9.59 | 7.00 | 49\% | 36\% | 73\% |  | 1.37 | 7.6 | 6.9 |  |  |  | 19.45 |  |  | 1,135 |  | 12,206 | 11,220 | 1,135 |  |  | 1,135 | 12,206 | 11,206 | 1,135 |
| 12/20/2012 | TRUE | FALSE | TRUE | 3.54 | 9.30 | 7.14 | 50\% | 38\% | 77\% |  | 1.30 | 7.7 | 7.0 | 240.00 |  |  | 22.11 | 14,291 |  | 1,317 |  | 12,514 | 11,220 | 1,165 | 14,291 |  | 1,317 | 12,514 | 11,206 | 1,165 |
| 12/21/2012 | TRUE | TRUE | true | 6.27 | 16.18 | 12.48 | 50\% | 39\% | 77\% |  | 1.30 | 7.9 | 7.7 | 154.00 | 117.00 | 0.76 |  | 16,029 | 12,178 |  |  | 12,929 | 11,340 | 1,146 | 16,029 | 12,178 |  | 12,929 | 11,327 | 1,146 |
| 12/22/2012 | TRUE | TRUE | TRUE | 6.17 | 14.33 | 10.41 | 59\% | 43\% | 73\% |  | 1.38 | 8.0 | 8.1 |  |  |  |  |  |  |  |  | 12,907 | 11,490 | 1,146 |  |  |  | 12,907 | 11,475 | 1,146 |
| 12/23/2012 | TRUE | true | TRUE | 6.17 | 16.18 | 11.31 | 55\% | 38\% | 70\% |  | 1.43 | 8.2 | 8.7 |  |  |  |  |  |  |  |  | 12,907 | 11,490 | 1,146 |  |  |  | 12,907 | 11,475 | 1,146 |
| 12/24/2012 | TRUE | TRUE | FALSE | 5.67 | 12.58 | 9.26 | 61\% | 45\% | 74\% |  | 1.36 | 8.3 | 9.0 |  |  |  |  |  |  |  |  | 12,907 | 11,490 | 1,146 |  |  |  | 12,907 | 11,475 | 1,146 |
| 12/25/2012 | TRUE | True | TRUE | 5.17 | 11.16 | 8.72 | 59\% | 46\% | 78\% |  | 1.28 | 8.3 | 9.2 |  |  |  |  |  |  |  |  | 12,907 | 11,490 | 1,146 |  |  |  | 12,907 | 11,475 | 1,146 |
| 12/26/2012 | TRUE | true | True | 5.68 | 12.89 | 9.55 | 59\% | 44\% | 74\% |  | 1.35 | 8.4 | 9.5 |  |  |  |  |  |  |  |  | 12,907 | 11,490 | 1,146 |  |  |  | 12,907 | 11,475 | 1,146 |
| 12/27/2012 | TRUE | true | true | 5.48 | 10.99 | 8.64 | 63\% | 50\% | 79\% |  | 1.27 | 8.5 | 9.7 | 84.00 |  |  | 9.73 | 6,053 |  | 701 |  | 12,513 | 11,490 | 1,072 | 6,053 |  | 701 | 12,513 | 11,475 | 1,072 |
| 12/28/2012 | TRUE | TRUE | TRUE | 4.49 | 11.19 | 8.11 | 55\% | 40\% | 72\% |  | 1.38 | 8.6 | 9.8 | 165.00 | 145.00 | 0.88 |  | 11,160 | 9,807 |  |  | 12,519 | 11,279 | 1,046 | 11,160 | 9,807 |  | 12,519 | 11,267 | 1,046 |
| 12/29/2012 | true | true | FALSE | 3.81 | 11.16 | 7.61 | 50\% | 34\% | 68\% |  | 1.47 | 8.6 | 9.2 |  |  |  |  |  |  |  |  | 12,172 | 11,279 | 1,046 |  |  |  | 12,172 | 11,267 | 1,046 |
| 12/30/2012 | TRUE | TRUE | FALSE | 3.85 | 9.86 | 7.08 | 54\% | 39\% | 72\% |  | 1.39 | 8.5 | 8.8 |  |  |  |  |  |  |  |  | 12,172 | 10,660 | 1,046 |  |  |  | 12,172 | 10,660 | 1,046 |
| 12/31/2012 | true | TRUE | FALSE | 3.59 | 10.42 | 7.14 | 50\% | 34\% | 69\% |  | 1.46 | 8.4 | 8.3 | 142.00 |  |  |  | 8,456 |  |  |  | 11,906 | 10,660 | 1,046 | 8,456 |  |  | 11,906 | 10,660 | 1,046 |
| 1/1/2013 | TRUE | TRUE | FALSE | 3.70 | 8.67 | 6.40 | 58\% | 43\% | 74\% |  | 1.35 | 8.3 | 7.9 |  |  |  |  |  |  |  |  | 11,906 | 10,660 | 1,046 |  |  |  | 11,906 | 10,660 | 1,046 |
| 1/2/2013 | TRUE | TRUE | FALSE | 3.60 | 8.69 | 6.72 | 54\% | 41\% | 77\% |  | 1.29 | 8.1 | 7.7 |  |  |  |  |  |  |  |  | 11,906 | 10,660 | 1,046 |  |  |  | 11,906 | 10,660 | 1,046 |
| 1/3/2013 | TRUE | TRUE | FALSE | 3.67 | 8.84 | 6.59 | 56\% | 42\% | 75\% |  | 1.34 | 8.0 | 7.3 | 188.00 |  |  | 15.99 | 10,333 |  | 879 |  | 11,783 | 10,660 | 1,018 | 10,333 |  | 879 | 11,783 | 10,660 | 1,018 |
| 1/4/2013 | TRUE | TRUE | FALSE | 3.51 | 8.73 | 6.46 | 54\% | 40\% | 74\% |  | 1.35 | 7.9 | 7.0 | 226.00 | 187.00 | 0.83 |  | 12,176 | 10,075 |  |  | 11,473 | 10,371 | 1,018 | 12,176 | 10,075 |  | 11,473 | 10,371 | 1,018 |
| 1/5/2013 | TRUE | TRUE | TRUE | 3.53 | 9.09 | 6.32 | 56\% | 39\% | 70\% |  | 1.44 | 7.8 | 6.8 |  |  |  |  |  |  |  |  | 11,473 | 10,371 | 1,018 |  |  |  | 11,473 | 10,371 | 1,018 |
| 1/6/2013 | TRUE | TRUE | TRUE | 3.43 | 8.96 | 6.45 | 53\% | 38\% | 72\% |  | 1.39 | 7.7 | 6.6 |  |  |  |  |  |  |  |  | 11,403 | 10,371 | 1,063 |  |  |  | 11,403 | 10,371 | 1,063 |
| 1/7/2013 | true | TRUE | FALSE | 3.45 | 8.45 | 6.45 | 53\% | 41\% | 76\% |  | 1.31 | 7.7 | 6.6 | 208.00 |  |  |  | 11,189 |  |  |  | 11,362 | 10,489 | 1,063 | 11,189 |  |  | 11,362 | 10,489 | 1,063 |
| 1/8/2013 | TRUE | TRUE | FALSE | 3.43 | 8.36 | 6.32 | 54\% | 41\% | 76\% |  | 1.32 | 7.6 | 6.5 | 173.00 |  |  |  | 9,119 |  |  |  | 11,201 | 10,489 | 1,063 | 9,119 |  |  | 11,201 | 10,489 | 1,063 |
| 1/9/2013 | true | TRUE | TRUE | 3.40 | 8.40 | 6.32 | 54\% | 40\% | 75\% |  | 1.33 | 7.6 | 6.5 | 255.00 | 216.00 | 0.85 |  | 13,441 | 11,385 |  |  | 11,351 | 10,617 | 1,063 | 13,441 | 11,385 |  | 11,351 | 10,617 | 1,063 |
| 1/10/2013 | true | true | true | 3.24 | 8.70 | 6.25 | 52\% | 37\% | 72\% |  | 1.39 | 7.6 | 6.4 | 228.00 |  |  | 20.56 | 11,885 |  | 1,072 |  | 11,448 | 10,617 | 1,064 | 11,885 |  | 1,072 | 11,448 | 10,617 | 1,064 |
| 1/11/2013 | TRUE | TRUE | FALSE | 3.40 | 8.60 | 6.11 | 56\% | 40\% | 71\% |  | 1.41 | 7.5 | 6.3 | 269.00 | 187.00 | 0.70 |  | 13,708 | 9,529 |  |  | 11,423 | 10,468 | 1,064 | 13,708 | 9,529 |  | 11,423 | 10,468 | 1,064 |
| 1/12/2013 | TRUE | TRUE | FALSE | 3.40 | 8.40 | 6.01 | 57\% | 40\% | 72\% |  | 1.40 | 7.5 | 6.3 |  |  |  |  |  |  |  |  | 11,423 | 10,468 | 1,064 |  |  |  | 11,423 | 10,468 | 1,064 |
| 1/13/2013 | TRUE | TRUE | FALSE | 3.23 | 8.66 | 6.08 | 53\% | 37\% | 70\% |  | 1.42 | 7.5 | 6.2 |  |  |  |  |  |  |  |  | 11,423 | 10,468 | 1,021 |  |  |  | 11,423 | 10,468 | 1,021 |
| 1/14/2013 | TRUE | True | FALSE | 3.24 | 7.94 | 6.12 | 53\% | 41\% | 77\% |  | 1.30 | 7.5 | 6.2 | 184.00 |  |  |  | 9,392 |  |  |  | 11,177 | 10,522 | 1,021 | 9,392 |  |  | 11,177 | 10,522 | 1,021 |
| 1/1//2013 | TRUE | TRUE | FALSE | 3.27 | 8.72 | 6.10 | 54\% | 38\% | 70\% |  | 1.43 | 7.4 | 6.2 | 240.00 |  |  |  | 12,210 |  |  |  | 11,242 | 10,522 | 1,021 | 12,210 |  |  | 11,242 | 10,522 | 1,021 |
| 1/16/2013 | TRUE | TRUE | FALSE | 3.43 | 8.24 | 6.10 | 56\% | 42\% | 74\% |  | 1.35 | 7.4 | 6.1 |  |  |  |  |  |  |  |  | 11,242 | 10,522 | 1,021 |  |  |  | 11,242 | 10,522 | 1,021 |
| 1/17/2013 | true | TRUE | FALSE | 3.33 | 8.04 | 6.14 | 54\% | 41\% | 76\% |  | 1.31 | 7.4 | 6.1 | 231.00 |  |  | 24.10 | 11,829 |  | 1,234 |  | 11,542 | 10,522 | 1,056 | 11,829 |  | 1,234 | 11,542 | 10,522 | 1,056 |
| 1/18/2013 | TRUE | TRUE | FALSE | 3.33 | 7.92 | 6.05 | 55\% | 42\% | 76\% |  | ${ }_{1}^{1.31}$ | 7.3 | 6.1 | 313.00 | 189.00 | 0.60 |  | 15,793 | 9,536 |  |  | 11,691 | 10,418 | 1,056 | 15,793 | 9,536 |  | 11,691 | 10,418 | 1,056 |
| 1/19/2013 | TRUE | TRUE | FALSE | 3.23 | 8.60 | 5.99 | 54\% | 38\% | 70\% |  | 1.44 | 7.3 | 6.1 |  |  |  |  |  |  |  |  | 11,691 | 10,418 | 1,040 |  |  |  | 11,691 | 10,418 | 1,040 |
| 1/20/2013 | TRUE | TRUE | FALSE | 3.21 | 8.57 | 5.80 | 55\% | 37\% | 68\% |  | 1.48 | 7.3 | 6.0 |  |  |  |  |  |  |  |  | 11,518 | 10,418 | 971 |  |  |  | 11,518 | 10,418 | 971 |
| 1/21/2013 | TRUE | TRUE | FALSE | 3.30 | 8.70 | 6.33 | 52\% | 38\% | 73\% |  | 1.37 | 7.1 | 6.1 |  |  |  |  |  |  |  |  | 11,196 | 10,067 | 971 |  |  |  | 11,196 | 10,067 | 971 |
| 1/22/2013 | TRUE | true | FALSE | 3.30 | 8.20 | 6.09 | 54\% | 40\% | 74\% |  | 1.35 | 6.9 | 6.1 | 373.00 |  |  |  | 18,945 |  |  |  | 11,712 | 10,067 | 971 | 18,945 |  |  | 11,712 | 10,067 | 971 |
| 1/23/2013 | TRUE | TRUE | TRUE | 3.30 | 8.20 | 6.33 | 52\% | 40\% | 77\% |  | 1.30 | 6.8 | 6.1 |  |  |  |  |  |  |  |  | 11,712 | 10,067 | 971 |  |  |  | 11,712 | 10,067 | 971 |
| 1/24/2013 | FALSE | TRUE | TRUE | 3.30 | 8.60 | 6.34 | 52\% | 38\% | 74\% |  | 1.36 | 6.7 | 6.1 |  |  |  |  |  |  |  |  | 11,712 | 10,067 | 971 |  |  |  | 11,712 | 10,067 | 971 |
| 1/25/2013 | FALSE | TRUE | TRUE | 3.34 | 8.60 | 6.33 | 53\% | 39\% | 74\% |  | 1.36 | 6.6 | 6.2 | 289.00 | 270.00 | 0.93 | 32.40 | 15,257 | 14,254 | 1,710 |  | 11,934 | 10,764 | 1,119 | 15,257 | 14,254 | 1,710 | 11,934 | 10,764 | 1,119 |
| 1/26/2013 | FALSE | TRUE | TRUE | 3.38 | 9.48 | 6.32 | 53\% | 36\% | 67\% |  | 1.50 | 6.5 | 6.2 |  |  |  |  |  |  |  |  | 11,934 | 10,764 | 1,119 |  |  |  | 11,934 | 10,764 | 1,119 |
| 1/27/2013 | FALSE | TRUE | FALSE | 3.40 | 9.43 | 6.56 | 52\% | 36\% | 70\% |  | 1.44 | 6.4 | 6.3 |  |  |  |  |  |  |  |  | 12,326 | 10,764 | 1,224 |  |  |  | 12,326 | 10,764 | 1,224 |
| 1/28/2013 | FALSE | TRUE | FALSE | 3.30 | 8.89 | 6.57 | 50\% | 37\% | 74\% |  | 1.35 | 6.4 | 6.4 | 222.00 |  |  |  | 12,164 |  |  |  | 12,393 | 10,956 | 1,224 | 12,164 |  |  | 12,393 | 10,956 | 1,224 |
| 1/29/2013 | FALSE | FALSE | FALSE | 3.37 | 8.71 | 6.48 | 52\% | 39\% | 74\% |  | 1.34 | 6.3 | 6.4 | 226.00 | 197.00 | 0.87 |  | 12,214 | 10,647 |  |  | 12,382 | 10,904 | 1,224 | 11,618 | 10,408 |  | 12,344 | 10,865 | 1,224 |
| 1/30/2013 | FALSE | FALSE | FALSE | 3.35 | 8.95 | 6.39 | 52\% | 37\% | 71\% |  | 1.40 | 6.3 | 6.4 | 268.00 |  |  |  | 14,282 |  |  |  | 12,494 | 10,904 | 1,224 | 14,282 |  |  | 12,458 | 10,865 | 1,224 |
| 1/31/2013 | FALSE | FALSE | FALSE | 3.35 | 8.84 | 6.40 | 52\% | 38\% | 72\% |  | 1.38 | 6.3 | 6.4 |  |  |  | 33.08 |  |  | 1,766 |  | 12,746 | 10,904 | 1,332 |  |  | 1,766 | 12,709 | 10,865 | 1,332 |
| 2/1/2013 | FALSE | FALSE | FALSE | 3.28 | 8.88 | 6.33 | 52\% | 37\% | 71\% |  | 1.40 | 6.3 | 6.4 | 351.00 | 249.00 | 0.71 |  | 18,530 | 13,145 |  |  | 13,086 | 11,224 | 1,332 | 18,530 | 13,145 |  | 13,051 | 11,190 | 1,332 |
| 2/2/2013 | FALSE | FALSE | FALSE | 3.35 | 9.51 | 6.28 | 53\% | 35\% | 66\% |  | 1.51 | 6.3 | 6.4 |  |  |  |  |  |  |  |  | 13,086 | 11,224 | 1,332 |  |  |  | 13,051 | 11,190 | 1,332 |
| 2/3/2013 | FALSE | FALSE | FALSE | 3.22 | 10.13 | 6.19 | 52\% | 32\% | 61\% |  | 1.64 | 6.3 | 6.4 |  |  |  |  |  |  |  |  | 13,258 | 11,224 | 1,445 |  |  |  | 13,221 | 11,190 | 1,445 |
| 2/4/2013 | FALSE | FALSE | FALSE | 3.25 | 9.27 | 6.39 | 51\% | 35\% | 69\% |  | 1.45 | 6.3 | 6.4 | 292.00 |  |  |  | 15,561 |  |  |  | 13,470 | 11,416 | 1,445 | 15,561 |  |  | 13,433 | 11,376 | 1,445 |
| 2/5/2013 | FALSE | FALSE | FALSE | 3.25 | 9.45 | 6.43 | 51\% | 34\% | 68\% |  | 1.47 | 6.3 | 6.4 | 304.00 | 226.00 | 0.74 |  | 16,302 | 12,120 |  |  | 13,636 | 11,517 | 1,445 | 16,302 | 12,120 |  | 13,601 | 11,482 | 1,445 |
| 2/6/2013 | FALSE | FALSE | FALSE | 3.19 | 9.64 | 6.43 | 50\% | 33\% | 67\% |  | 1.50 | 6.3 | 6.4 |  |  |  |  |  |  |  |  | 13,636 | 11,517 | 1,445 |  |  |  | 13,601 | 11,482 | 1,445 |
| 2/7/2013 | FALSE | FALSE | TRUE | 3.34 | 9.36 | 6.46 | 52\% | 36\% | 69\% |  | 1.45 | 6.3 | 6.4 |  |  |  | 30.67 |  |  | 1,652 |  | 13,789 | 11,517 | 1,487 |  |  | 1,652 | 13,752 | 11,482 | 1,487 |
| 2/8/2013 | FALSE | FALSE | FALSE | 3.42 | 8.34 | 6.34 | 54\% | 41\% | 76\% |  | 1.32 | 6.3 | 6.4 | 396.00 | 236.00 | 0.60 |  | 20,939 | 12,479 |  | TSS | 14,101 | 11,637 | 1,487 | 20,939 | 12,479 |  | 14,061 | 11,607 | 1,487 |
| 2/9/2013 | FALSE | FALSE | FALSE | 3.38 | 6.17 | 6.20 | 55\% | 55\% | 100\% | inMaxAvgM | 1.00 | 6.3 | 6.4 |  |  |  |  |  |  |  |  | 14,148 | 11,673 | 1,487 |  |  |  | 14,105 | 11,639 | 1,487 |
| 2/10/2013 | FALSE | FALSE | FALSE | 3.17 | 9.33 | 6.32 | 50\% | 34\% | 68\% |  | 1.48 | 6.3 | 6.4 |  |  |  |  |  |  |  |  | 14,322 | 11,673 | 1,591 |  |  |  | 14,276 | 11,639 | 1,591 |
| 2/11/2013 | FALSE | FALSE | FALSE | 3.30 | 8.78 | 6.28 | 53\% | 38\% | 72\% |  | 1.40 | 6.3 | 6.4 | 244.00 |  |  |  | 12,780 |  |  |  | 14,251 | 12,030 | 1,591 | 12,780 |  |  | 14,205 | 11,990 | 1,591 |
| 2/12/2013 | FALSE | FALSE | FALSE | 3.27 | 9.34 | 6.27 | 52\% | 35\% | 67\% |  | 1.49 | 6.3 | 6.4 | 306.00 | 230.00 | 0.75 |  | 16,001 | 12,027 |  |  | 14,376 | 12,030 | 1,591 | 16,001 | 12,027 |  | 14,333 | 11,996 | 1,591 |
| 2/13/2013 | FALSE | FALSE | FALSE | 3.25 | 8.51 | 6.30 | 52\% | 38\% | 74\% |  | 1.35 | 6.3 | 6.3 |  |  |  |  |  |  |  |  | 14,376 | 12,030 | 1,591 |  |  |  | 14,333 | 11,996 | 1,591 |
| 2/14/2013 | FALSE | FALSE | FALSE | 3.26 | 8.76 | 6.22 | 52\% | 37\% | 71\% |  | 1.41 | 6.3 | 6.3 |  |  |  | 24.40 |  |  | 1,266 |  | 14,759 | 12,030 | 1,526 |  |  | 1,266 | 14,713 | 11,996 | 1,526 |


| Date | $\begin{aligned} & \text { Butte } \\ & \text { Break? } \end{aligned}$ | $\begin{gathered} \text { csu } \\ \text { Break? } \end{gathered}$ | Precip? | $\underset{\substack{\text { Min } \\ \text { Influent } \\ \text { Flow, mgd }}}{ }$ | $\begin{gathered} \text { Max } \\ \text { Influent } \\ \text { Flow, } \mathrm{mgd} \end{gathered}$ | $\begin{gathered} \text { Avg } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | $\underset{\text { Avg of }}{\text { Min } \% \text { of }}$ | $\min \% \text { of }_{\operatorname{Max}}$ | $\begin{aligned} & \text { Avg \% of } \\ & \text { Max } \end{aligned}$ | $\begin{aligned} & \text { Flow } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | $\begin{aligned} & \text { Diurnal } \\ & \text { Peak } \\ & \text { Factor } \\ & \text { (DPF) } \end{aligned}$ | $\begin{gathered} \text { 30-d Avg } \\ \text { of Avg } \\ \text { Flow, mgd } \end{gathered}$ | 7-d Avg of Avg Flow, mgd | Influent TSS Conc., mg/L | $\begin{gathered} \text { Influent } \\ \text { BoD } \\ \text { Conc., } \\ \mathrm{mg} / \mathrm{L} \end{gathered}$ | BOD/TSS | Influent NH3-N Conc., mg/L | $\begin{aligned} & \text { Avg lin } \\ & \text { TSS Load, } \\ & \text { ppdd } \end{aligned}$ | Avg Inf BOD Load, ppd | Avg Inf NH3 Load, ppd | $\begin{aligned} & \text { Load } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | 30-d Avg of TSS Load, ppd | 30-d Avg of BOD Load, ppd | 30-d Avg of NH3-N Load, ppd | non-SN TSS Load, ppd | non-SN BOD Load, ppd | non-SN NH3 Load, ppd | 30-d Avg of non-SN TSS Load, ppd | 30-d Avg of non-SN BOD Load, ppd | $\begin{gathered} \text { 30-d Avg } \\ \text { of non-SN } \\ \text { NH3-N } \\ \text { Load, ppd } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2/15/2013 | FALSE | FALSE | FALSE | 3.26 | 9.35 | 6.26 | 52\% | 35\% | 67\% |  | 1.49 | 6.3 | 6.3 | 228.00 |  |  |  | 11,904 |  |  |  | 14,736 | 12,030 | 1,526 | 11,904 |  |  | 14,690 | 11,996 | 1,526 |
| 2/16/2013 | FALSE | FALSE | FALSE | 3.18 | 9.21 | 6.03 | 53\% | 35\% | 65\% |  | 1.53 | 6.3 | 6.2 |  |  |  |  |  |  |  |  | 14,736 | 12,030 | 1,526 |  |  |  | 14,990 | 11,996 | 1,526 |
| 2/17/2013 | false | FALSE | false | 3.18 | 9.25 | 6.00 | 53\% | 34\% | 65\% |  | 1.54 | 6.3 | 6.2 |  |  |  |  |  |  |  |  | 14,978 | 12,030 | 1,599 |  |  |  | 14,928 | 11,996 | 1,599 |
| 2/18/2013 | FALSE | FALSE | FALSE | 3.27 | 6.52 | 6.56 | 50\% | 50\% | 101\% | AvgMax | 0.99 | 6.3 | 6.2 |  |  |  |  |  |  |  |  | 14,904 | 12,445 | 1,599 |  |  |  | 14,850 | 12,405 | 1,599 |
| 2/19/2013 | FALSE | FALSE | TRUE | 3.23 | 6.36 | 6.39 | 51\% | 51\% | 100\% | AvgMax | 1.00 | 6.3 | 6.2 | 256.00 | 235.00 | 0.92 |  | 13,643 | 12,524 |  |  | 14,799 | 12,456 | 1,599 | 13,643 | 12,524 |  | 14,749 | 12,422 | 1,599 |
| 2/20/2013 | FALSE | FALSE | TRUE | 3.18 | 6.17 | 6.22 | 51\% | 52\% | 101\% | AvgMax | 0.99 | 6.3 | 6.2 |  |  |  |  |  |  |  |  | 14,799 | 12,456 | 1,599 |  |  |  | 14,749 | 12,422 | 1,599 |
| 2/21/2013 | FALSE | FALSE | FALSE | 3.25 | 8.76 | 6.26 | 52\% | 37\% | 71\% |  | 1.40 | 6.3 | 6.2 | 240.00 |  |  | 26.02 | 12,530 |  | 1,358 |  | 14,624 | 12,456 | 1,551 | 12,530 |  | 1,358 | 14,578 | 12,422 | 1,551 |
| 2/22/2013 | FALSE | FALSE | FALSE | 3.30 | 8.60 | 6.20 | 53\% | 38\% | 72\% |  | 1.39 | 6.3 | 6.2 | 244.00 | 224.00 | 0.92 |  | 12,617 | 11,583 |  |  | 14,137 | 12,347 | 1,551 | 12,617 | 11,583 |  | 14,091 | 12,317 | 1,551 |
| 2/23/2013 | false | FALSE | false | 3.20 | 9.10 | 6.07 | 53\% | 35\% | 67\% |  | 1.50 | 6.3 | 6.1 |  |  |  |  |  |  |  |  | 14,137 | 12,347 | 1,551 |  |  |  | 14,091 | 12,317 | 1,551 |
| 2/24/2013 | FALSE | FALSE | FALSE | 3.25 | 8.96 | 6.23 | 52\% | 36\% | 70\% |  | 1.44 | 6.3 | 6.2 |  |  |  |  |  |  |  |  | 14,137 | 12,347 | 1,551 |  |  |  | 14,091 | 12,317 | 1,551 |
| 2/25/2013 | FALSE | FALSE | FALSE | 3.22 | 8.86 | 6.24 | 52\% | 36\% | 70\% |  | 1.42 | 6.3 | 6.2 | 256.00 |  |  |  | 13,323 |  |  |  | 13,989 | 12,075 | 1,511 | 13,323 |  |  | 13,943 | 12,041 | 1,511 |
| 2/26/2013 | FALSE | FALSE | FALSE | 3.07 | 9.08 | 6.24 | 49\% | 34\% | 69\% |  | 1.46 | 6.3 | 6.2 | 237.00 | 234.00 | 0.99 |  | 12,334 | 12,178 |  |  | 13,870 | 12,088 | 1,511 | 12,135 | 12,087 |  | 13,814 | 12,047 | 1,511 |
| 2/27/2013 | FALSE | FALSE | false | 3.24 | 9.37 | 6.22 | 52\% | 35\% | 66\% |  | 1.51 | 6.3 | 6.2 |  |  |  |  |  |  |  |  | 13,870 | 12,088 | 1,511 |  |  |  | 13,814 | 12,047 | 1,511 |
| 2/28/2013 | FALSE | FALSE | FALSE | 3.24 | 8.53 | 6.16 | 53\% | 38\% | 72\% |  | 1.38 | 6.3 | 6.2 | 268.00 |  |  | 21.52 | 13,768 |  | 1,106 |  | 13,985 | 12,088 | 1,430 | 13,768 |  | 1,106 | 13,928 | 12,047 | 1,430 |
| 3/1/2013 | FALSE | FALSE | false | 3.24 | 8.44 | 6.14 | 53\% | 38\% | 73\% |  | 1.37 | 6.3 | 6.2 | 148.00 | 189.00 | 1.28 |  | 7,579 | 9,678 |  |  | 13,654 | 11,967 | 1,430 | 7,579 | 9,678 |  | 13,640 | 11,955 | 1,430 |
| 3/2/2013 | FALSE | FALSE | FALSE | 3.22 | 8.94 | 6.08 | 53\% | 36\% | 68\% |  | 1.47 | 6.3 | 6.2 |  |  |  |  |  |  |  |  | 13,605 | 11,967 | 1,430 |  |  |  | 13,590 | 11,955 | 1,430 |
| 3/3/2013 | false | FALSE | TRUE |  |  | 6.13 |  |  |  | 'gMinMaxA' | 0.00 | 6.2 | 6.2 |  |  |  |  |  |  |  |  | 13,605 | 11,967 | 1,346 |  |  |  | 13,590 | 11,955 | 1,346 |
| 3/4/2013 | FALSE | FALSE | FALSE | 3.30 | 6.20 | 6.28 | 53\% | 53\% | 101\% | AvgMax | 0.99 | 6.2 | 6.2 | 112.00 |  |  |  | 5,866 |  |  |  | 12,631 | 11,798 | 1,346 | 5,866 |  |  | 12,616 | 11,785 | 1,346 |
| 3/5/2013 | false | FALSE | TRUE | 3.27 | 8.79 | 6.32 | 52\% | 37\% | 72\% |  | 1.39 | 6.2 | 6.2 | 220.00 | 194.00 | 0.88 |  | 11,596 | 10,226 |  |  | 12,557 | 11,602 | 1,346 | 11,596 | 10,226 |  | 12,543 | 11,590 | 1,346 |
| 3/6/2013 | FALSE | FALSE | TRUE | 3.20 | 8.80 | 6.41 | 50\% | 36\% | 73\% |  | 1.37 | 6.3 | 6.2 |  |  |  |  |  |  |  |  | 12,557 | 11,602 | 1,346 |  |  |  | 12,543 | 11,590 | 1,346 |
| 3/7/2013 | false | FALSE | FALSE | 3.30 | 8.90 | 6.36 | 52\% | 37\% | 71\% |  | 1.40 | 6.3 | 6.2 | 255.00 |  |  | 24.60 | 13,526 |  | 1,305 |  | 12,412 | 11,602 | 1,337 | 13,526 |  | 1,305 | 12,398 | 11,590 | 1,337 |
| 3/8/2013 | FALSE | FALSE | FALSE | 3.21 | 11.31 | 6.33 | 51\% | 28\% | 56\% | AvgMax | 1.79 | 6.2 | 6.3 | 276.00 | 213.00 | 0.77 |  | 14,571 | 11,245 |  |  | 12,288 | 11,492 | 1,337 | 14,571 | 11,245 |  | 12,274 | 11,481 | 1,337 |
| 3/9/2013 | false | FALSE | FALSE | 3.20 | 9.53 | 5.99 | 53\% | 34\% | 63\% |  | 1.59 | 6.2 | 6.2 |  |  |  |  |  |  |  |  | 12,288 | 11,492 | 1,337 |  |  |  | 12,274 | 11,481 | 1,337 |
| 3/10/2013 | FALSE | FALSE | FALSE | 3.31 | 8.74 | 6.11 | 54\% | 38\% | 70\% |  | 1.43 | 6.2 | 6.2 |  |  |  |  |  |  |  |  | 12,288 | 11,492 | 1,259 |  |  |  | 12,274 | 11,481 | 1,259 |
| 3/11/2013 | FALSE | FALSE | FALSE | 3.27 | 8.32 | 6.25 | 52\% | 39\% | 75\% |  | 1.33 | 6.2 | 6.2 | 211.00 |  |  |  | 10,998 |  |  |  | 12,202 | 11,351 | 1,259 | 10,998 |  |  | 12,189 | 11,338 | 1,259 |
| 3/12/2013 | FALSE | FALSE | FALSE | 3.21 | 8.88 | 6.21 | 52\% | 36\% | 70\% |  | 1.43 | 6.2 | 6.2 | 144.00 | 118.00 | 0.82 |  | 7,458 | 6,111 |  |  | 11,906 | 10,696 | 1,259 | 7,458 | 6,111 |  | 11,893 | 10,685 | 1,259 |
| 3/13/2013 | FALSE | FALSE | FALSE | 3.22 | 8.77 | 6.15 | 52\% | 37\% | 70\% |  | 1.43 | 6.2 | 6.2 |  |  |  |  |  |  |  |  | 11,906 | 10,696 | 1,259 |  |  |  | 11,893 | 10,685 | 1,259 |
| 3/14/2013 | FALSE | FALSE | FALSE | 3.23 | 8.85 | 6.27 | 52\% | 36\% | 71\% |  | 1.41 | 6.2 | 6.2 | 279.00 |  |  | 24.13 | 14,589 |  | 1,262 |  | 12,019 | 10,696 | 1,259 | 14,589 |  | 1,262 | 12,006 | 10,685 | 1,259 |
| 3/15/2013 | true | FALSE | FALSE | 3.18 | 8.42 | 6.04 | 53\% | 38\% | 72\% |  | 1.39 | 6.2 | 6.1 | 254.00 |  |  |  | 12,795 |  |  |  | 11,818 | 10,506 | 1,259 | 12,795 |  |  | 11,806 | 10,493 | 1,259 |
| 3/16/2013 | TRUE | FALSE | FALSE | 3.13 | 8.30 | 5.63 | 56\% | 38\% | 68\% |  | 1.47 | 6.2 | 6.1 |  |  |  |  |  |  |  |  | 11,818 | 10,506 | 1,259 |  |  |  | 11,806 | 10,493 | 1,259 |
| 3/17/2013 | true | FALSE | FALSE | 3.06 | 8.66 | 5.47 | 56\% | 35\% | 63\% |  | 1.58 | 6.1 | 6.0 |  |  |  |  |  |  |  |  | 11,818 | 10,506 | 1,258 |  |  |  | 11,806 | 10,493 | 1,258 |
| 3/18/2013 | TRUE | FALSE | FALSE | 3.12 | 8.51 | 5.61 | 56\% | 37\% | 66\% |  | 1.52 | 6.1 | 6.0 | 359.00 |  |  |  | 16,797 |  |  |  | 12,124 | 10,506 | 1,258 | 16,797 |  |  | 12,112 | 10,493 | 1,258 |
| 3/19/2013 | true | FALSE | True | 3.08 | 8.67 | 5.74 | 54\% | 36\% | 66\% |  | 1.51 | 6.1 | 5.9 | 269.00 | 223.00 | 0.83 | 22.66 | 12,877 | 10,675 | 1,085 |  | 12,169 | 10,527 | 1,223 | 12,877 | 10,675 | 1,085 | 12,157 | 10,516 | 1,223 |
| 3/20/2013 | TRUE | FALSE | TRUE | 3.13 | 8.44 | 5.81 | 54\% | 37\% | 69\% |  | 1.45 | 6.1 | 5.8 |  |  |  |  |  |  |  |  | 12,169 | 10,527 | 1,223 |  |  |  | 12,157 | 10,516 | 1,223 |
| 3/21/2013 | TRUE | FALSE | FALSE | 3.18 | 8.29 | 5.67 | 55\% | 38\% | 68\% |  | 1.46 | 6.1 | 5.8 | 267.00 |  |  |  | 12,626 |  |  |  | 12,194 | 10,527 | 1,223 | 12,626 |  |  | 12,183 | 10,516 | 1,223 |
| 3/22/2013 | TRUE | FALSE | FALSE | 3.19 3 | 8.25 | 5.68 5 | 56\% | 39\% | 69\% |  | 1.45 | 6.1 | 5.7 | 296.00 | 218.00 | 0.74 |  | 14,022 | 10,327 |  |  | 12,215 | 10,253 | ${ }_{1}^{1,223}$ | 14,022 | 10,327 |  | 12,204 | 10,241 | 1,223 <br> 1223 <br> 1 |
| 3/23/2013 | TRUE | FALSE | FALSE | 3.07 | 8.00 | 5.54 | 55\% | 38\% | 69\% |  | 1.44 | 6.0 | 5.6 |  |  |  |  |  |  |  |  | 12,215 | 10,253 | 1,223 |  |  |  | 12,204 | 10,241 | 1,223 |
| 3/24/2013 | TRUE | ${ }_{\text {FALSE }}$ | ${ }_{\text {FALSE }}$ | 3.08 | 8.76 884 | 5.85 | 53\% | 35\% | 67\% |  | 1.50 | 6.0 | 5.7 |  |  |  |  |  |  |  |  | 12,197 | 10,253 | 1,189 |  |  |  | 12,185 | 10,241 | 1,189 |
| 3/25/2013 | True | FALSE | FALSE | 3.19 | 8.84 | 6.20 | 51\% | 36\% | 70\% |  | 1.43 | 6.0 | 5.8 |  |  |  |  |  |  |  |  | 12,170 | 10,063 | 1,189 |  |  |  | 12,158 | 10,050 | 1,189 |
| 3/26/2013 | TRUE | FALSE | FALSE | 3.26 | 8.69 | 6.20 | 53\% | 38\% | 71\% |  | 1.40 | 6.0 | 5.8 | 298.00 | 234.00 | 0.79 |  | 15,409 | 12,100 |  |  | 12,361 | 10,317 | 1,189 | 14,737 | 11,921 |  | 12,310 12,310 | 10,284 10,284 | 1,189 1,189 1,21 |
| 3/27/2013 | FALSE | FALSE | FALSE | 3.13 | 9.10 | 6.23 | 50\% | 34\% | 68\% |  | 1.46 | 6.0 | 5.9 |  |  |  |  |  |  |  |  | 12,361 | 10,317 | 1,189 |  |  |  | 12,310 | 10,284 | 1,189 |
| 3/28/2013 | FALSE | FALSE | FALSE | 3.11 | 9.29 | 6.21 | 50\% | 33\% | 67\% |  | 1.50 | 6.0 | 5.9 | 243.00 |  |  | 25.60 | 12,585 |  | 1,326 |  | 12,317 | 10,317 | 1,217 | 12,585 |  | 1,326 | 12,266 | 10,284 | 1,217 |
| 3/29/2013 | false | FALSE | FALSE | 3.28 | 8.77 | 6.18 | 53\% | 37\% | 70\% |  | 1.42 | 6.0 | 6.0 | 251.00 | 211.00 | 0.84 |  | 12,937 | 10,875 |  |  | 12,353 | 10,155 | 1,217 | 12,937 | 10,875 |  | 12,313 | 10,132 | 1,217 |
| 3/30/2013 | FALSE | FALSE | FALSE | 3.23 | 9.39 | 5.99 | 54\% | 34\% | 64\% |  | 1.57 | 6.0 | 6.1 |  |  |  |  |  |  |  |  | 12,353 | 10,155 | 1,217 |  |  |  | 12,313 | 10,132 | 1,217 |
| 3/31/2013 | false | FALSE | TRUE | 3.28 | 9.47 | 6.03 | 54\% | 35\% | 64\% |  | 1.57 | 6.0 | 6.1 |  |  |  |  |  |  |  |  | 12,264 | 10,155 | 1,244 |  |  |  | 12,222 | 10,132 | 1,244 |
| 4/1/2013 | FALSE | FALSE | TRUE | 3.38 | 9.92 | 6.65 | 51\% | 34\% | 67\% |  | 1.49 | 6.0 | 6.2 | 293.00 |  |  |  | 16,250 |  |  |  | 12,806 | 10,223 | 1,244 | 16,250 |  |  | 12,764 | 10,197 | 1,244 |
| 4/2/2013 | FALSE | FALSE | FALSE | 3.30 | 9.22 | 6.51 | 51\% | 36\% | 71\% |  | 1.42 | 6.0 | 6.3 | 239.00 | 206.00 | 0.86 |  | 12,976 | 11,184 |  |  | 12,816 | 10,343 | 1,244 | 12,976 | 11,184 |  | 12,777 | 10,321 | 1,244 |
| 4/3/2013 | FALSE | FALSE | FALSE | 3.26 | 6.43 | 6.39 | 51\% | 51\% | 99\% | AvgMax | 1.01 | 6.0 | 6.3 |  |  |  |  |  |  |  |  | 12,816 | 10,343 | 1,244 |  |  |  | 12,777 | 10,321 | 1,244 |
| 4/4/2013 | FALSE | FALSE | TRUE | 3.34 | 6.61 | 6.65 | 50\% | 51\% | 101\% | AvgMax | 0.99 | 6.0 | 6.3 |  |  |  | 25.02 |  |  | 1,388 |  | 13,251 | 10,343 | 1,273 |  |  | 1,388 | 13,209 | 10,321 | 1,273 |
| 4/5/2013 | FALSE | FALSE | FALSE | 3.20 | 9.40 | 6.44 | 50\% | 34\% | 69\% |  | 1.46 | 6.1 | 6.3 | 301.00 | 215.00 | 0.71 |  | 16,167 | 11,548 |  |  | 13,536 | 10,508 | 1,273 | 16,167 | 11,548 |  | 13,494 | 10,486 | 1,273 |
| 4/6/2013 | FALSE | FALSE | FALSE | 3.20 | 9.50 | 6.18 | 52\% | 34\% | 65\% |  | 1.54 | 6.0 | 6.3 |  |  |  |  |  |  |  |  | 13,536 | 10,508 | 1,273 |  |  |  | 13,494 | 10,486 | 1,273 |
| 4/7/2013 | FALSE | FALSE | TRUE | 3.33 | 9.46 | 6.29 | 53\% | 35\% | 66\% |  | 1.50 | 6.0 | 6.4 |  |  |  |  |  |  |  |  | 13,537 | 10,508 | 1,265 |  |  |  | 13,492 | 10,486 | 1,265 |
| 4/8/2013 | FALSE | FALSE | TRUE | 3.28 | 8.87 | 6.41 | 51\% | 37\% | 72\% |  | 1.38 | 6.1 | 6.4 | 245.00 |  |  |  | 13,098 |  |  |  | 13,439 | 10,403 | 1,265 | 13,098 |  |  | 13,394 | 10,377 | 1,265 |
| 4/9/2013 | FALSE | FALSE | FALSE | 3.30 | 8.58 | 6.25 | 53\% | 38\% | 73\% |  | 1.37 | 6.1 | 6.3 | 285.00 | 215.00 | 0.75 |  | 14,846 | 11,200 |  |  | 13,527 | 10,503 | 1,265 | 14,846 | 11,200 |  | 13,485 | 10,480 | 1,265 |
| 4/10/2013 | FALSE | FALSE | FALSE | 3.34 | 8.90 | 6.20 | 54\% | 38\% | 70\% |  | 1.43 | 6.1 | 6.3 |  |  |  |  |  |  |  |  | 13,527 | 10,503 | 1,265 |  |  |  | 13,485 | 10,480 | 1,265 |
| 4/11/2013 | FALSE | FALSE | FALSE | 3.32 | 8.97 | 6.27 | 53\% | 37\% | 70\% |  | 1.43 | 6.1 | 6.3 | 237.00 |  |  | 24.85 | 12,393 |  | 1,299 |  | 13,614 | 10,503 | 1,272 | 12,393 |  | 1,299 | 13,572 | 10,480 | 1,272 |
| 4/12/2013 | FALSE | FALSE | FALSE | 3.12 | 8.92 | 6.13 | 51\% | 35\% | 69\% |  | 1.46 | 6.1 | 6.3 | 259.00 | 194.00 | 0.75 |  | 13,241 | 9,918 |  |  | 13,976 13,976 | 10,978 10,978 | 1,272 1,272 1 | 13,241 | 9,918 |  | 13,934 13,934 | 10,956 10,956 | 1,272 1,272 1 |
| 4/13/2013 | FALSE | FALSE | FALSE | 3.22 | 9.02 | 6.01 | 54\% | 36\% | 67\% |  | 1.50 | 6.1 | 6.2 |  |  |  |  |  |  |  |  | 13,976 | 10,978 | 1,272 |  |  |  | 13,934 | 10,956 | 1,272 |
| 4/14/2013 | FALSE | FALSE | FALSE | 3.23 | 9.34 | 6.14 | 53\% | 35\% | 66\% |  | 1.52 | 6.1 | 6.2 |  |  |  |  |  |  |  |  | 13,935 14,348 | 10,978 10,978 | 1,274 1,274 1 |  |  |  | 13,890 14,303 | 10,956 10,956 | 1,274 <br> 1,274 <br> 122 |
| 4/15/2013 | FALSE | FALSE | FALSE | 3.30 | 8.94 | 6.24 | 53\% | 37\% | 70\% |  | 1.43 | 6.1 | 6.2 | 365.00 |  |  |  | 18,995 |  |  |  | 14,348 | 10,978 | 1,274 | 18,995 |  |  | 14,303 | 10,956 | 1,274 <br> 1,274 |
| 4/16/2013 | FALSE | ${ }^{\text {FALSE }}$ | ${ }_{\text {FALLSE }}$ | 3.20 3.30 | 8.91 | ${ }_{6}^{6.22}$ | 51\% | 36\% | 70\% |  | 1.43 | 6.1 | 6.2 | 221.00 | 203.00 | 0.92 |  | 11,464 | 10,531 |  |  | 14,168 | 10,929 | 1,274 | 11,464 | 10,531 |  | 14,126 14126 | 10,909 | 1,274 <br> 1 <br> 1,245 |
| 4/17/2013 | FALSE | FALSE | FALSE | 3.30 | 8.70 | 6.26 | 53\% | 38\% | 72\% |  | 1.39 | 6.1 | 6.2 |  |  |  | 21.60 |  |  | 1,128 |  | 14,168 | 10,929 | 1,245 |  |  | 1,128 | 14,126 | 10,909 | 1,245 |
| 4/18/2013 | false | FALSE | FALSE | 3.20 | 8.71 | 6.19 | 52\% | 37\% | 71\% |  | 1.41 | 6.1 | 6.2 | 225.00 |  |  |  | 11,616 |  |  |  | 13,844 | 10,929 | 1,245 | 11,616 |  |  | 13,802 | 10,909 | 1,245 |


| Date | $\begin{aligned} & \text { Butte } \\ & \text { Break? } \end{aligned}$ | $\begin{gathered} \text { csu } \\ \text { Break? } \end{gathered}$ | Precip? |  | $\begin{gathered} \text { Max } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | $\begin{gathered} \text { Avg } \\ \text { Influent } \\ \text { Flow, } \mathrm{mgd} \end{gathered}$ | $\begin{aligned} & \text { Min \% of } \\ & \text { Avg } \end{aligned}$ | Min \% of Max | $\begin{aligned} & \text { Avg \% of } \\ & \text { Max } \end{aligned}$ | $\begin{aligned} & \text { Flow } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | $\begin{aligned} & \text { Diurnal } \\ & \text { Peak } \\ & \text { Factor } \\ & \text { (DPF) } \end{aligned}$ | 30-d Avg of Avg Flow, mgd | 7-d Avg of <br> Avg Flow, mgd | Influent TSS Conc., mg/L | $\begin{gathered} \text { Infiuent } \\ \text { BoD } \\ \text { conc, } \\ \text { cos/L } \end{gathered}$ | BOD/TSS | Influent NH3-N Conc., mg/L | Avg linf TSS Load, ppd | Avg Inf BOD Load, ppd | Avg Inf NH3 Load, ppd | $\begin{aligned} & \text { Load } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | $\begin{aligned} & \text { 30-d Avg } \\ & \text { of TSS } \\ & \text { Load, ppd } \end{aligned}$ | 30-d Avg of BOD Load, ppd | 30-d Avg of NH3-N Load, ppd | non-SN TSS Loac ppd | non-SN BOD Load, ppd | non-SN NH3 Load, ppd | $\begin{gathered} \text { 30-d Avg } \\ \text { of non-SN } \\ \text { TSS Load, } \\ \text { ppd } \end{gathered}$ | 30-d Avg <br> of non-SN BOD Load ppd | $\begin{aligned} & \text { 30-d AVg } \\ & \text { of non-SN } \\ & \text { NH3 } \\ & \text { Load, ppd } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 4/19/2013 | FALSE | FALSE | FALSE | 3.21 | 8.72 | 6.10 | 53\% | 37\% | 70\% |  | 1.43 | 6.1 | 6.2 | 260.00 |  |  |  | 13,227 |  |  |  | 13,866 | 10,960 | 1,285 | 13,227 |  |  | 13,824 | 10,938 | 1,285 |
| 4/20/2013 | FALSE | FALSE | FALSE | 3.19 | 8.32 | 5.82 | 55\% | 38\% | 70\% |  | 1.43 | 6.1 | 6.1 |  |  |  |  |  |  |  |  | 13,866 | 10,960 | 1,285 |  |  |  | 13,824 | 10,938 | 1,285 |
| 4/21/2013 | FALSE | FALSE | false | 3.20 | 8.81 | 6.00 | 53\% | 36\% | 68\% |  | 1.47 | 6.2 | 6.1 |  |  |  |  |  |  |  |  | 13,948 | 10,960 | 1,285 |  |  |  | 13,904 | 10,938 | 1,285 |
| 4/22/2013 | FALSE | FALSE | FALSE | 3.34 | 8.78 | 6.18 | 54\% | 38\% | 70\% |  | 1.42 | 6.2 | 6.1 | 174.00 |  |  |  | 8,968 |  |  |  | 13,612 | 11,051 | 1,285 | 8,968 |  |  | 13,567 | 11,025 | 1,285 |
| 4/23/2013 | FALSE | FALSE | FALSE | 3.25 | 8.74 | 6.21 | 52\% | 37\% | 71\% |  | 1.41 | 6.2 | 6.1 | 293.00 | 242.00 | 0.83 |  | 15,175 | 12,534 |  |  | 13,709 | 11,236 | 1,285 | 15,175 | 12,534 |  | 13,67 | 11,214 | 1,285 |
| 4/24/2013 | FALSE | FALSE | FALSE | 3.28 | 8.75 | 6.18 | 53\% | 37\% | 71\% |  | 1.42 | 6.2 | 6.1 |  |  |  |  |  |  |  |  | 13,709 | 11,236 | 1,285 |  |  |  | 13,667 | 11,214 | 1,285 |
| 4/25/2013 | FALSE | FALSE | FALSE | 3.23 | 9.11 | 6.24 | 52\% | 35\% | 68\% |  | 1.46 | 6.2 | 6.1 | 187.00 |  |  | 24.46 | 9,732 |  | 1,273 |  | 13,475 | 11,236 | 1,283 | 9,732 |  | 1,273 | 13,436 | 11,214 | 1,283 |
| 4/26/2013 | FALSE | FALSE | FALSE | 3.26 | 8.89 | 6.15 | 53\% | 37\% | 69\% |  | 1.45 | 6.2 | 6.1 | 209.00 | 190.00 | 0.91 |  | 10,720 | 9,745 |  |  | 13,199 | 10,942 | 1,283 | 10,720 | 9,745 |  | 13,199 | 10,942 | 1,283 |
| 4/27/2013 | FALSE | FALSE | FALSE | 3.30 | 8.95 | 5.94 | 56\% | 37\% | 66\% |  | 1.51 | 6.2 | 6.1 |  |  |  |  |  |  |  |  | 13,199 | 10,942 | 1,283 |  |  |  | 13,199 | 10,942 | 1,283 |
| 4/28/2013 | FALSE | FALSE | FALSE | 3.25 | 9.11 | 6.00 | 54\% | 36\% | 66\% |  | 1.52 | 6.2 | 6.1 |  |  |  |  |  |  |  |  | 13,238 | 10,942 | 1,272 |  |  |  | 13,238 | 10,942 | 1,272 |
| 4/29/2013 | FALSE | FALSE | FALSE | 3.15 | 9.25 | 6.23 | 51\% | 34\% | 67\% |  | 1.48 | 6.2 | 6.1 | 250.00 |  |  |  | 12,990 |  |  |  | 13,241 | 10,951 | 1,272 | 12,990 |  |  | 13,241 | 10,951 | 1,272 |
| 4/30/2013 | FALSE | FALSE | FALSE | 3.19 | 9.70 | 6.20 | 51\% | 33\% | 64\% |  | 1.56 | 6.2 | 6.1 | 231.00 | 211.00 | 0.91 |  | 11,945 | 10,910 |  |  | 13,165 | 10,946 | 1,272 | 11,945 | 10,910 |  | 13,165 | 10,946 | 1,272 |
| 5/1/2013 | FALSE | FALSE | FALSE | 3.13 | 9.71 | 6.20 | 50\% | 32\% | 64\% |  | 1.57 | 6.2 | 6.1 |  |  |  |  |  |  |  |  | 13,165 | 10,946 | 1,272 |  |  |  | 13,165 | 10,946 | 1,272 |
| 5/2/2013 | FALSE | FALSE | false | 3.21 | 9.30 | 6.18 | 52\% | 35\% | 66\% |  | 1.50 | 6.2 | 6.1 | 265.00 |  |  | 26.93 | 13,658 |  | 1,388 |  | 13,012 | 10,946 | 1,295 | 13,658 |  | 1,388 | 13,012 | 10,946 | 1,295 |
| 5/3/2013 | FALSE | FALSE | FALSE | 3.24 | 8.75 | 6.18 | 52\% | 37\% | 71\% |  | 1.42 | 6.2 | 6.1 | 272.00 | 215.00 | 0.79 |  | 14,019 | 11,081 |  |  | 13,074 | 10,933 | 1,295 | 14,019 | 11,081 |  | 13,074 | 10,933 | 1,295 |
| 5/4/2013 | FALSE | False | false | 3.31 | 8.84 | 6.00 | 55\% | 37\% | 68\% |  | 1.47 | 6.2 | 6.1 |  |  |  |  |  |  |  |  | 13,074 | 10,933 | 1,295 |  |  |  | 13,074 | 10,933 | 1,295 |
| 5/5/2013 | FALSE | FALSE | FALSE | 3.28 | 9.52 | 6.20 | 53\% | 34\% | 65\% |  | 1.54 | 6.2 | 6.1 |  |  |  |  |  |  |  |  | 13,074 | 10,933 | 1,272 |  |  |  | 13,074 | 10,933 | 1,272 |
| 5/6/2013 | FALSE | False | true | 3.31 | 8.84 | 6.33 | 52\% | 37\% | 72\% |  | 1.40 | 6.2 | 6.2 | 221.00 |  |  |  | 11,667 |  |  |  | 12,809 | 10,846 | 1,272 | 11,667 |  |  | 12,809 | 10,846 | 1,272 |
| 5/7/2013 | FALSE | FALSE | FALSE | 3.31 | 9.18 | 6.31 | 52\% | 36\% | 69\% |  | 1.45 | 6.2 | 6.2 | 262.00 | 177.00 | 0.68 |  | 13,788 | 9,315 |  |  | 12,863 | 10,654 | 1,272 | 13,788 | 9,315 |  | 12,863 | 10,654 | 1,272 |
| 5/8/2013 | FALSE | FALSE | false | 3.36 | 9.17 | 6.29 | 53\% | 37\% | 69\% |  | 1.46 | 6.2 | 6.2 |  |  |  |  |  |  |  |  | 12,863 | 10,654 | 1,272 |  |  |  | 12,863 | 10,654 | 1,272 |
| 5/9/2013 | FALSE | FALSE | FALSE | 3.27 | 8.78 | 6.23 | 52\% | 37\% | 71\% |  | 1.41 | 6.2 | 6.2 | 189.00 |  |  | 23.14 | 9,820 |  | 1,202 |  | 12,681 | 10,654 | 1,258 | 9,820 |  | 1,202 | 12,681 | 10,654 | 1,258 |
| 5/10/2013 | FALSE | FALSE | false | 3.27 | 9.55 | 6.17 | 53\% | 34\% | 65\% |  | 1.55 | 6.2 | 6.2 | 273.00 | 195.00 | 0.71 |  | 14,048 | 10,034 |  |  | 12,637 | 10,509 | 1,258 | 14,048 | 10,034 |  | 12,637 | 10,509 | 1,258 |
| 5/11/2013 | FALSE | FALSE | False | 3.23 | 9.52 | 5.98 | 54\% | 34\% | 63\% |  | 1.59 | 6.2 | 6.2 |  |  |  |  |  |  |  |  | 12,637 | 10,509 | 1,258 |  |  |  | 12,637 | 10,509 | 1,258 |
| 5/12/2013 | FALSE | False | false | 3.31 | 8.63 | 5.93 | 56\% | 38\% | 69\% |  | 1.46 | 6.1 | 6.2 |  |  |  |  |  |  |  |  | 12,651 | 10,509 | 1,248 |  |  |  | 12,651 | 10,509 | 1,248 |
| 5/13/2013 | FALSE | FALSE | FALSE | 3.25 | 8.69 | 6.22 | 52\% | 37\% | 72\% |  | 1.40 | 6.1 | 6.2 | 251.00 |  |  |  | 13,021 |  |  |  | 12,638 | 10,593 | 1,248 | 13,021 |  |  | 12,638 | 10,593 | 1,248 |
| 5/14/2013 | FALSE | FALSE | false | 3.36 | 8.96 | 6.24 | 54\% | 38\% | 70\% |  | 1.44 | 6.2 | 6.2 | 268.00 | 235.00 | 0.88 |  | 13,947 | 12,230 |  |  | 12,711 | 10,797 | 1,248 | 13,947 | 12,230 |  | 12,711 | 10,797 | 1,248 |
| 5/15/2013 | FALSE | FALSE | FALSE | 3.24 | 9.75 | 6.23 | 52\% | 33\% | 64\% |  | 1.57 | 6.2 | 6.2 |  |  |  |  |  |  |  |  | 12,711 | 10,797 | 1,248 |  |  |  | 12,711 | 10,797 | 1,248 |
| 5/16/2013 | FALSE | FALSE | false | 3.35 | 9.30 | 6.26 | 54\% | 36\% | 67\% |  | 1.49 | 6.2 | 6.2 | 299.00 |  |  | 25.94 | 15,610 |  | 1,354 |  | 12,523 | 10,797 | 1,269 | 15,610 |  | 1,354 | 12,523 | 10,797 | 1,269 |
| 5/17/2013 | FALSE | FALSE | FALSE | 3.34 | 8.87 | 6.21 | 54\% | 38\% | 70\% |  | 1.43 | 6.2 | 6.2 | 315.00 | 208.00 | 0.66 |  | 16,314 | 10,773 |  |  | 12,792 | 10,828 | 1,269 | 16,314 | 10,773 |  | 12,792 | 10,828 | 1,269 |
| 5/18/2013 | FALSE | FALSE | false | 3.27 | 8.72 | 5.90 | 55\% | 38\% | 68\% |  | 1.48 | 6.1 | 6.1 |  |  |  |  |  |  |  |  | 12,792 | 10,828 | 1,304 |  |  |  | 12,792 | 10,828 | 1,304 |
| 5/19/2013 | FALSE | FALSE | FALSE | 3.19 | 9.00 | 6.03 | 53\% | 35\% | 67\% |  | 1.49 | 6.1 | 6.1 |  |  |  |  |  |  |  |  | 12,862 | 10,828 | 1,304 |  |  |  | 12,862 | 10,828 | 1,304 |
| 5/20/2013 | FALSE | FALSE | FALSE | 3.28 | 8.80 | 6.19 | 53\% | 37\% | 70\% |  | 1.42 | 6.1 | 6.2 | 249.00 |  |  |  | 12,855 |  |  |  | 12,840 | 10,828 | 1,304 | 12,855 |  |  | 12,840 | 10,828 | 1,304 |
| 5/21/2013 | FALSE | FALSE | FALSE | 3.15 | 8.44 | 6.02 | 52\% | 37\% | 71\% |  | 1.40 | 6.1 | 6.1 | 238.00 |  |  |  | 11,949 |  |  |  | 12,790 | 10,828 | 1,304 | 11,949 |  |  | 12,790 | 10,828 | 1,304 |
| 5/22/2013 | FALSE | FALSE | FALSE | 3.18 | 8.95 | 6.23 | 51\% | 36\% | 70\% |  | 1.44 | 6.2 | 6.1 |  |  |  |  |  |  |  |  | 12,790 | 10,828 | 1,304 |  |  |  | 12,790 | 10,828 | 1,304 |
| 5/23/2013 | FALSE | FALSE | FALSE | 3.21 | 8.60 | 6.20 | 52\% | 37\% | 72\% |  | 1.39 | 6.2 | 6.1 | 257.00 |  |  | 23.95 | 13,289 |  | 1,238 |  | 13,030 | 10,828 | 1,291 | 13,289 |  | 1,238 | 13,030 | 10,828 | 1,291 |
| 5/24/2013 | FALSE | FALSE | false | 3.30 | 8.80 | 6.25 | 53\% | 38\% | 71\% |  | 1.41 | 6.2 | 6.1 | 305.00 | 220.00 | 0.72 |  | 15,898 | 11,468 |  |  | 13,071 | 10,694 | 1,291 | 15,898 | 11,468 |  | 13,071 | 10,694 | 1,291 |
| 5/25/2013 | FALSE | FALSE | FALSE | 3.29 | 8.64 | 6.15 | 53\% | 38\% | 71\% |  | 1.40 | 6.2 | 6.1 |  |  |  |  |  |  |  |  | 13,071 | 10,694 | 1,291 |  |  |  | 13,071 | 10,694 | 1,291 |
| 5/26/2013 | FALSE | True | FALSE | 3.18 | 9.24 | 5.74 | 55\% | 34\% | 62\% |  | 1.61 | 6.1 | 6.1 |  |  |  |  |  |  |  |  | 13,267 | 10,694 | 1,296 |  |  |  | 13,267 | 10,694 | 1,296 |
| 5/27/2013 | FALSE | true | TRUE | 3.20 | 9.00 | 6.09 | 53\% | 36\% | 68\% |  | 1.48 | 6.1 | 6.1 |  |  |  |  |  |  |  |  | 13,426 | 10,830 | 1,296 |  |  |  | 13,426 | 10,830 | 1,296 |
| 5/28/2013 | FALSE | true | FALSE | 3.20 | 8.90 | 5.97 | 54\% | 36\% | 67\% |  | 1.49 | 6.1 | 6.1 | 210.00 | 195.00 | 0.93 |  | 10,456 | 9,709 |  |  | 13,251 | 10,690 | 1,296 | 10,456 | 9,709 |  | 13,251 | 10,690 | 1,296 |
| 5/29/2013 | FALSE | true | FALSE | 3.20 | 8.40 | 6.03 | 53\% | 38\% | 72\% |  | 1.39 | 6.1 | 6.1 |  |  |  |  |  |  |  |  | 13,251 | 10,690 | 1,296 |  |  |  | 13,251 | 10,690 | 1,296 |
| 5/30/2013 | FALSE | True | FALSE | 3.20 | 8.30 | 5.84 | 55\% | 39\% | 70\% |  | 1.42 | 6.1 | 6.0 | 294.00 |  |  | 24.56 | 14,319 |  | 1,196 |  | 13,330 | 10,690 | 1,276 | 14,319 |  | 1,196 | 13,330 | 10,690 | 1,276 |
| 5/31/2013 | TRUE | TRUE | false | 3.23 | 8.18 | 5.80 | 56\% | 39\% | 71\% |  | 1.41 | 6.1 | 6.0 | 275.00 | 235.00 | 0.85 |  | 13,302 | 11,367 |  |  | 13,409 | 10,747 | 1,276 | 13,302 | 11,367 |  | 13,409 | 10,747 | 1,276 |
| 6/1/2013 | TRUE | true | false | 3.29 | 7.90 | 5.62 | 59\% | 42\% | 71\% |  | 1.41 | 6.1 | 5.9 |  |  |  |  |  |  |  |  | 13,409 | 10,747 | 1,276 |  |  |  | 13,409 | 10,747 | 1,276 |
| 6/2/2013 | TRUE | TrUE | FALSE | 3.25 | 8.04 | 5.61 | 58\% | 40\% | 70\% |  | 1.43 | 6.1 | 5.8 |  |  |  |  |  |  |  |  | 13,394 | 10,747 | 1,248 |  |  |  | 13,394 | 10,747 | 1,248 |
| 6/3/2013 | TRUE | TRUE | FALSE | 3.23 | 9.13 | 5.85 | 55\% | 35\% | 64\% |  | 1.56 | 6.1 | 5.9 | 114.00 |  |  |  | 5,562 |  |  |  | 12,865 | 10,699 | 1,248 | 5,562 |  |  | 12,865 | 10,699 | 1,248 |
| 6/4/2013 | TRUE | true | false | 3.34 | 8.10 | 5.92 | 56\% | 41\% | 73\% |  | 1.37 | 6.1 | 5.8 | 296.00 | 225.00 | 0.76 |  | 14,614 | 11,109 |  |  | 12,968 | 10,751 | 1,248 | 14,614 | 11,109 |  | 12,968 | 10,751 | 1,248 |
| 6/5/2013 | TRUE | true | FALSE | 3.38 | 8.13 | 5.94 | 57\% | 42\% | 73\% |  | 1.37 | 6.1 | 5.8 |  |  |  |  |  |  |  |  | 12,968 | 10,751 | 1,248 |  |  |  | 12,968 | 10,751 | 1,248 |
| 6/6/2013 | TRUE | true | FALSE | 3.32 | 7.73 | 5.88 | 56\% | 43\% | 76\% |  | 1.31 | 6.0 | 5.8 |  |  |  | 20.39 |  |  | 1,000 |  | 13,050 | 10,751 | 1,198 |  |  | 1,000 | 13,050 | 10,751 | 1,198 |
| 6/7/2013 | TRUE | TRUE | FALSE | 3.30 | 7.70 | 5.76 | 57\% | 43\% | 75\% |  | 1.34 | 6.0 | 5.8 | 115.00 | 156.00 | 1.36 |  | 5,524 | 7,494 |  |  | 12,533 | 10,523 | 1,198 | 5,524 | 7,494 |  | 12,533 | 10,523 | 1,198 |
| 6/8/2013 | TRUE | TRUE | FALSE | 3.30 | 7.30 | 5.47 | 60\% | 45\% | 75\% |  | 1.33 | 6.0 | 5.8 |  |  |  |  |  |  |  |  | 12,533 | 10,523 | 1,198 |  |  |  | 12,533 | 10,523 | 1,198 |
| 6/9/2013 | TRUE | true | FALSE | 3.14 | 8.70 | 5.62 | 56\% | 36\% | 65\% |  | 1.55 | 6.0 | 5.8 |  |  |  |  |  |  |  |  | 12,714 | 10,523 | 1,197 |  |  |  | 12,714 | 10,523 | 1,197 |
| 6/10/2013 | TRUE | true | TRUE | 3.24 | 8.64 | 5.80 | 56\% | 38\% | 67\% |  | 1.49 | 6.0 | 5.8 |  |  |  |  |  |  |  |  | 12,619 | 10,593 | 1,197 |  |  |  | 12,619 | 10,593 | 1,197 |
| 6/11/2013 | True | true | FALSE | 3.20 | 8.30 | 5.71 | 56\% | 39\% | 69\% |  | 1.45 | 6.0 | 5.8 |  |  |  |  |  |  |  |  | 12,619 | 10,593 | 1,197 |  |  |  | 12,619 | 10,593 | 1,197 |
| 6/12/2013 | TRUE | TRUE | FALSE | 3.36 | 5.64 | 5.65 | 59\% | 60\% | 100\% | inMaxavgM | 1.00 | 6.0 | 5.7 | 316.00 |  |  |  | 14,890 |  |  |  | 12,770 | 10,593 | 1,197 | 14,890 |  |  | 12,770 | 10,593 | 1,197 |
| 6/13/2013 | TRUE | true | FALSE | 3.20 | 8.10 | 5.62 | 57\% | 40\% | 69\% |  | 1.44 | 5.9 | 5.7 | 278.00 |  |  | 24.08 | 13,030 |  | 1,129 |  | 12,771 | 10,593 | 1,183 | 13,030 |  | 1,129 | 12,771 | 10,593 | 1,183 |
| 6/14/2013 | TRUE | true | FALSE | 3.22 | 7.70 | 5.48 | 59\% | 42\% | 71\% |  | 1.41 | 5.9 | 5.6 | 275.00 | 191.00 | 0.69 |  | 12,568 | 8,729 |  |  | 12,679 | 10,093 | 1,183 | 12,568 | 8,729 |  | 12,679 | 10,093 | 1,183 |
| 6/15/2013 | TRUE | True | FALSE | 3.33 | 7.63 | 5.28 | 63\% | 44\% | 69\% |  | 1.45 | 5.9 | 5.6 |  |  |  |  |  |  |  |  | 12,679 | 10,093 | 1,183 |  |  |  | 12,679 | 10,093 | 1,183 |
| 6/16/2013 | ${ }_{\text {TRUE }}^{\text {TRUE }}$ | TRUE | FALSE | 3.25 3 | 8.00 | 5.37 | 61\% | 41\% | 67\% |  | 1.49 | 5.9 | 5.6 |  |  |  |  |  |  |  |  | 12,469 | 10,093 | 1,141 |  |  |  | 12,469 | 10,093 | 1,141 |
| 6/17/2013 | TRUE | TRUE | FALSE | 3.30 | 7.68 | 5.61 | 59\% | 43\% | 73\% |  | 1.37 | 5.8 | 5.6 |  |  |  |  |  |  |  |  | 12,174 | 9,979 | 1,141 |  |  |  | 12,174 | 9,979 | 1,141 1,141 |
| 6/18/2013 6/19/2013 | TRUE TRUE | TRUE TRUE | FALSE | $\begin{aligned} & 3.25 \\ & 3.25 \end{aligned}$ | $\begin{aligned} & 7.61 \\ & 7.90 \end{aligned}$ | 5.63 5.65 | 58\% | $\begin{aligned} & \begin{array}{l} 43 \% \\ 42 \% \end{array} \end{aligned}$ | $\begin{aligned} & \begin{array}{l} 7 \% \\ 72 \% \end{array} \end{aligned}$ |  | $\begin{aligned} & 1.35 \\ & 1.40 \end{aligned}$ | $5.8$ | $5.5$ |  |  |  |  |  |  |  |  | 12,174 12,174 | $\begin{aligned} & 9,979 \\ & 9,979 \end{aligned}$ | $\begin{aligned} & 1,141 \\ & 1,141 \end{aligned}$ |  |  |  | $\begin{aligned} & 12,174 \\ & 12,174 \end{aligned}$ | $9,979$ | 1,141 <br> 1,141 |
| 6/20/2013 | TRUE | true | FALSE | 3.21 | 8.00 | 5.60 | 57\% | 40\% | 70\% |  | 1.43 | 5.8 | 5.5 | 375.00 |  |  | 20.73 | 17,514 |  | 968 |  | 12,532 | 9,979 | 1,106 | 17,514 |  | 968 | 12,532 | 9,979 | 1,106 |


| Date | Butte <br> Break? | $\begin{gathered} \text { csu } \\ \text { Break? } \end{gathered}$ | Precip? |  | $\begin{gathered} \text { Max } \\ \text { Influent } \\ \text { Flow, } \text { mgd } \end{gathered}$ | Avg Influent Flow, mgd | $\begin{aligned} & \text { Min \% of of } \\ & \text { Avg } \end{aligned}$ | Min \% of | Avg \% of Max | $\begin{aligned} & \text { Flow } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | Diurnal <br> Peak <br> Factor <br> (DPF) | $\begin{gathered} \text { 30-d Avg } \\ \text { of Avg } \\ \text { Flow, mgd } \end{gathered}$ | 7-d Avg of Avg Flow, mgd | Influent TSS Conc., mg/L | Influent BOD Conc. mg/L | $\underset{\substack{\text { Bod/TSS } \\ \text { Ratio }}}{ }$ | Influent NH3-N Conc., mg/L | $\begin{aligned} & \text { Avg Inf } \\ & \text { TSS Load, } \\ & \text { ppd } \end{aligned}$ | Avg Inf BOD Load, ppd | Avg Inf NH3 Load, ppd | $\begin{aligned} & \text { Load } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | 30-d Avg of TSS Load, ppd | 30-d Avg of BOD Load, ppd | 30-d Avg of $\mathrm{NH} 3-\mathrm{N}$ Load, ppd | $\begin{aligned} & \text { non-SN } \\ & \text { TSS Load, } \\ & \text { ppd } \end{aligned}$ | $\begin{gathered} \text { non-SN } \\ \text { BOD Load, } \\ \text { ppd } \end{gathered}$ | $\begin{gathered} \text { non-SN } \\ \text { NH3 Load, } \\ \text { ppd } \end{gathered}$ | 30-d Avg <br> of non-SN <br> TSS Load, <br> ppd | 30-d Avg of non-SN BOD Load, ppd | 30-d Avg <br> of non-SN <br> NH3-N <br> Load, ppd |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 6/21/2013 | TRUE | TRUE | FALSE | 3.31 | 7.90 | 5.48 | 60\% | 42\% | 69\% |  | 1.44 | 5.8 | 5.5 | 277.00 | 220.00 | 0.79 |  | 12,660 | 10,055 |  |  | 12,587 | 9,990 | 1,106 | 12,660 | 10,055 |  | 12,587 | 9,990 | 1,106 |
| 6/22/2013 | TRUE | TRUE | FALSE | 3.30 | 7.31 | 5.24 | 63\% | 45\% | 72\% |  | 1.40 | 5.7 | 5.5 |  |  |  |  |  |  |  |  | 12,587 | 9,990 | 1,106 |  |  |  | 12,587 | 9,990 | 1,106 |
| 6/23/2013 | true | TrUE | FALSE | 3.28 | 7.47 | 5.35 | 61\% | 44\% | 72\% |  | 1.40 | 5.7 | 5.5 |  |  |  |  |  |  |  |  | 12,528 | 9,990 | 1,073 |  |  |  | 12,528 | 9,990 | 1,073 |
| 6/24/2013 | TRUE | TRUE | TRUE | 3.30 | 7.97 | 5.75 | 57\% | 41\% | 72\% |  | 1.39 | 5.7 | 5.5 | 298.00 |  |  |  | 14,291 |  |  |  | 12,394 | 9,744 | 1,073 | 14,291 |  |  | 12,394 | 9,744 | 1,073 |
| 6/25/2013 | true | true | TRUE | 3.34 | 8.20 | 5.80 | 58\% | 41\% | 71\% |  | 1.41 | 5.7 | 5.6 | 322.00 |  |  |  | 15,576 |  |  |  | 12,639 | 9,744 | 1,073 | 15,090 |  |  | 12,602 | 9,744 | 1,073 |
| 6/26/2013 | TRUE | TRUE | FALSE | 3.40 | 8.00 | 5.69 | 60\% | 43\% | 71\% |  | 1.41 | 5.7 | 5.6 |  |  |  | 21.36 |  |  | 1,014 |  | 12,639 | 9,744 | 1,061 |  |  | 1,014 | 12,602 | 9,744 | 1,061 |
| 6/27/2013 | True | TRUE | FALSE | 3.21 | 7.84 | 5.77 | 56\% | 41\% | 74\% |  | 1.36 | 5.7 | 5.6 | 347.00 |  |  |  | 16,698 |  |  |  | 12,929 | 9,744 | 1,061 | 16,998 |  |  | 12,894 | 9,744 | 1,061 |
| 6/28/2013 | TRUE | TRUE | FALSE | 3.18 | 8.17 | 5.51 | 58\% | 39\% | 67\% |  | 1.48 | 5.7 | 5.6 | 321.00 | 185.00 | 0.58 |  | 14,751 | 8,501 |  |  | 13,236 | 9,543 | 1,061 | 14,751 | 8,501 |  | 13,201 | 9,543 | 1,061 |
| 6/29/2013 | True | TRUE | FALSE | 3.36 | 8.02 | 5.35 | 63\% | 42\% | 67\% |  | 1.50 | 5.6 | 5.6 |  |  |  |  |  |  |  |  | 13,236 | 9,543 | 1,061 |  |  |  | 13,201 | 9,543 | 1,061 |
| 6/30/2013 | TRUE | TRUE | FALSE | 3.40 | 8.07 | 5.40 | 63\% | 42\% | 67\% |  | 1.49 | 5.6 | 5.6 |  |  |  |  |  |  |  |  | 13,152 | 9,543 | 1,028 |  |  |  | 13,115 | 9,543 | 1,028 |
| 71/2013 | TRUE | TRUE | FALSE | 3.30 | 7.89 | 5.60 | 59\% | 42\% | 71\% |  | 1.41 | 5.6 | 5.6 |  |  |  |  |  |  |  |  | 13,140 | 9,178 | 1,028 |  |  |  | 13,099 | 9,178 | 1,028 |
| 7/2/2013 | TRUE | TRUE | FALSE | 3.29 | 7.96 | 5.66 | 58\% | 41\% | 71\% |  | 1.41 | 5.6 | 5.6 | 290.00 | 208.00 | 0.72 |  | 13,689 | 9,819 |  |  | 13,182 | 9,284 | 1,028 | 13,689 | 9,819 |  | 13,145 | 9,284 | 1,028 |
| 7/3/2013 | TRUE | True | FALSE | 3.42 | 7.93 | 5.51 | 62\% | 43\% | 69\% |  | 1.44 | 5.6 | 5.6 |  |  |  | 18.44 |  |  | 847 |  | 13,182 | 9,284 | 992 |  |  | 847 | 13,145 | 9,284 | 992 |
| 7/4/2013 | TRUE | TRUE | FALSE | 3.23 | 7.84 | 5.07 | 64\% | 41\% | 65\% |  | 1.55 | 5.6 | 5.5 |  |  |  |  |  |  |  |  | 13,817 | 9,284 | 992 |  |  |  | 13,777 | 9,284 | 992 |
| 7/5/2013 | TRUE | True | FALSE | 3.25 | 11.44 | 5.32 | 61\% | 28\% | 47\% | AveMax | 2.15 | 5.6 | 5.4 | 253.00 | 158.00 | 0.62 |  | 11,225 | 7,010 |  |  | 13,535 | 8,601 | 992 | 11,225 | 7,010 |  | 13,494 | 8,601 | 992 |
| 7/6/2013 | true | True | FALSE | 3.33 | 7.56 | 5.37 | 62\% | 44\% | 71\% |  | 1.41 | 5.6 | 5.4 |  |  |  |  |  |  |  |  | 13,535 | 8,601 | 992 |  |  |  | 13,494 | 8,601 | 992 |
| 7/7/2013 | True | TRUE | FALSE | 3.30 | 7.60 | 5.37 | 61\% | 43\% | 71\% |  | 1.42 | 5.5 | 5.4 |  |  |  |  |  |  |  |  | 13,535 | 8,601 | 989 |  |  |  | 13,494 | 8,601 | 989 |
| 7/8/2013 | TRUE | TRUE | FALSE | 3.30 | 7.60 | 5.34 | 62\% | 43\% | 70\% |  | 1.42 | 5.5 | 5.4 | 249.00 |  |  |  | 11,089 |  |  |  | 13,999 | 8,823 | 989 | 11,089 |  |  | 13,958 | 8,823 | 989 |
| 7/9/2013 | TrUE | TRUE | FALSE | 3.30 | 7.60 | 5.66 | 58\% | 43\% | 74\% |  | 1.34 | 5.5 | 5.4 | 304.00 | 154.00 | 0.51 |  | 14,350 | 7,269 |  |  | 14,026 | 8,564 | 989 | 14,350 | 7,269 |  | 13,988 | 8,564 | 989 |
| 7/10/2013 | TRUE | TRUE | False | 3.30 | 10.40 | 5.67 | 58\% | 32\% | 55\% | AvgMax | 1.83 | 5.5 | 5.4 |  |  |  |  |  |  |  |  | 14,026 | 8,564 | 989 |  |  |  | 13,988 | 8,564 | 989 |
| 7/11/2013 | TRUE | TRUE | FALSE | 3.40 | 7.40 | 5.61 | 61\% | 46\% | 76\% |  | 1.32 | 5.5 | 5.4 | 325.00 |  |  | 23.91 | 15,206 |  | 1,119 |  | 14,110 | 8,564 | 1,015 | 15,206 |  | 1,119 | 14,075 | 8,564 | 1,015 |
| 7/12/2013 | True | TRUE | False | 3.36 | 7.39 | 5.60 | 60\% | 45\% | 76\% |  | 1.32 | 5.5 | 5.5 | 285.00 |  |  |  | 13,311 |  |  |  | 14,057 | 8,564 | 1,015 | 13,311 |  |  | 14,024 | 8,564 | 1,015 |
| 7/13/2013 | true | TRUE | False | 3.25 | 7.22 | 5.37 | 61\% | 45\% | 74\% |  | 1.34 | 5.5 | 5.5 |  |  |  |  |  |  |  |  | 13,997 | 8,564 | 1,015 |  |  |  | 13,962 | 8,564 | 1,015 |
| 7/14/2013 | True | TRUE | FALSE | 3.28 | 7.31 | 5.33 | 62\% | 45\% | 73\% |  | 1.37 | 5.5 | 5.5 |  |  |  |  |  |  |  |  | 14,071 | 8,564 | 987 |  |  |  | 14,034 | 8,564 | 987 |
| 7/15/2013 | true | true | FALSE | 3.35 | 7.34 | 5.66 | 59\% | 46\% | 77\% |  | 1.30 | 5.5 | 5.5 |  |  |  |  |  |  |  |  | 14,197 | 8,531 | 987 |  |  |  | 14,156 | 8,531 | 987 |
| 7/16/2013 | TRUE | TRUE | FALSE | 3.39 | 7.40 | 5.59 | 61\% | 46\% | 76\% |  | 1.32 | 5.5 | 5.5 | 287.00 |  |  |  | 13,380 |  |  |  | 14,134 | 8,531 | 987 | 13,380 |  |  | 14,096 | 8,531 | 987 |
| 7/17/2013 | True | TRUE | FALSE | 3.34 | 7.18 | 5.56 | 60\% | 47\% | 77\% |  | 1.29 | 5.5 | 5.5 |  |  |  |  |  |  |  |  | 14,134 | 8,531 | 987 |  |  |  | 14,096 | 8,531 | 987 |
| 7/18/2013 | TRUE | TRUE | FALSE | 3.35 | 7.35 | 5.75 | 58\% | 46\% | 78\% |  | 1.28 | 5.5 | 5.6 | 210.00 |  |  | 20.76 | 10,071 |  | 996 |  | 13,844 | 8,531 | 989 | 10,071 |  | 996 | 13,809 | 8,531 | 989 |
| 7/19/2013 | TRUE | TRUE | FALSE | 3.40 | 7.50 | 5.64 | 60\% | 45\% | 75\% |  | 1.33 | 5.5 | 5.6 | 166.00 | 132.00 | 0.80 |  | 7,808 | 6,209 |  |  | 13,441 | 8,144 | 989 | 7,808 | 6,209 |  | 13,409 | 8,144 | 989 |
| 7/20/2013 | TRUE | TRUE | FALSE | 3.40 | 7.50 | 5.43 | 63\% | 45\% | 72\% |  | 1.38 | 5.5 | 5.5 |  |  |  |  |  |  |  |  | 13,441 | 8,144 | 989 |  |  |  | 13,409 | 8,144 | 989 |
| 7/21/2013 | TRUE | True | FALSE | 3.37 | 7.44 | 5.53 | 61\% | 45\% | 74\% |  | 1.35 | 5.5 | 5.6 |  |  |  |  |  |  |  |  | 13,150 | 8,144 | 994 |  |  |  | 13,116 | 8,144 | 994 |
| 7/22/2013 | TRUE | TRUE | FALSE | 3.35 | 7.61 | 5.78 | 58\% | 44\% | 76\% |  | 1.32 | 5.5 | 5.6 | 218.00 |  |  |  | 10,509 |  |  |  | 12,997 | 7,762 | 994 | 10,509 |  |  | 12,962 | 7,762 | 994 |
| 7/23/2013 | TRUE | TRUE | FALSE | 3.35 | 7.57 | 5.78 | 58\% | 44\% | 76\% |  | 1.31 | 5.5 | 5.6 | 214.00 | 169.00 | 0.79 |  | 10,316 | 8,147 |  |  | 12,818 | 7,826 | 994 | 9,794 | 8,021 |  | 12,751 | 7,805 | 994 |
| 7/24/2013 | TRUE | TRUE | FALSE | 3.32 | 7.27 | 5.66 | 59\% | 46\% | 78\% |  | 1.28 | 5.6 | 5.6 |  |  |  |  |  |  |  |  | 12,818 | 7,826 | 994 |  |  |  | 12,751 | 7,805 | 994 |
| 7/25/2013 | TRUE | True | FALSE | 3.40 | 7.37 | 5.67 | 60\% | 46\% | 77\% |  | 1.30 | 5.6 | 5.7 | 237.00 |  |  | 16.23 | 11,207 |  | 767 |  | 12,612 | 7,826 | 949 | 11,207 |  | 767 | 12,545 | 7,805 | 949 |
| 7/26/2013 | TRUE | TRUE | FALSE | 3.34 | 7.94 | 5.46 | 61\% | 42\% | 69\% |  | 1.45 | 5.5 | 5.6 | 225.00 |  |  |  | 10,246 |  |  |  | 12,257 | 7,826 | 949 | 10,246 |  |  | 12,222 | 7,805 | 949 |
| 7/27/2013 | TRUE | True | FALSE | 3.38 | 7.42 | 5.30 | 64\% | 46\% | 71\% |  | 1.40 | 5.5 | 5.6 |  |  |  |  |  |  |  |  | 12,257 | 7,826 78,89 | 932 |  |  |  | 12,222 | 7,805 | 932 |
| 7/28/2013 | TRUE | TRUE | FALSE | 3.34 | 8.30 | 5.48 | 61\% | 40\% | 66\% |  | 1.51 | 5.5 | 5.6 |  |  |  |  |  |  |  |  | 11,940 | 7,826 | 932 |  |  |  | 11,903 | 7,805 | 932 |
| 7/29/2013 | True | True | FALSE | 3.30 | 7.48 | 5.59 | 59\% | 44\% | 75\% |  | 1.34 | 5.5 | 5.6 | 229.00 |  |  |  | 10,676 |  |  |  | 11,649 | 7,691 | 932 | 10,676 |  |  | 11,612 | 7,666 | 932 |
| 7/30/2013 | TRUE | TRUE | FALSE | 3.28 | 7.01 | 5.55 | 59\% | 47\% | 79\% |  | 1.26 | 5.5 | 5.6 | 211.00 | 166.00 | 0.79 |  | 9,767 | 7,684 |  |  | 11,523 | 7,690 | 932 | 9,767 | 7,684 |  | 11,489 | 7,669 | 932 |
| 7/31/2013 | TRUE | TRUE | FALSE | 3.44 | 7.38 | 5.63 | 61\% | 47\% | 76\% |  | 1.31 | 5.5 | 5.5 |  |  |  |  |  |  |  |  | 11,523 | 7,690 | 932 |  |  |  | 11,489 | 7,669 | 932 |
| 81/2013 | TRUE | TRUE | FALSE | 3.23 | 7.24 | 5.61 | 58\% | 45\% | 77\% |  | 1.29 | 5.5 | 5.5 |  |  |  | 23.46 |  |  | 1,098 |  | 11,523 | 7,690 | 965 |  |  | 1,098 | 11,489 | 7,669 | 965 |
| 8/2/2013 | TRUE | TRUE | FALSE | 3.37 3 | 7.39 7.53 | 5.59 531 | ${ }^{60 \%}$ | 46\% | 76\% |  | 1.32 | 5.5 | 5.5 | 295.00 | 161.00 | 0.55 |  | 13,753 | 7,506 |  |  | ${ }^{11,528}$ | 7,304 7 | 965 | 13,753 | 7,506 |  | 11,493 | 7,283 | 965 |
| 8/3/2013 | TRUE | TRUE | FALSE | 3.27 | 7.53 | 5.31 | 62\% | 43\% | 71\% |  | 1.42 | 5.5 | 5.5 |  |  |  |  |  |  |  |  | 11,528 | 7,304 | 995 |  |  |  | 11,493 | 7,283 | 995 |
| 8/4/2013 | TRUE | TRUE | FALSE | 3.31 3 | 7.23 | 5.37 5 5 | ${ }^{62 \%}$ | 46\% | 74\%\% |  | 1.35 | 5.5 | 5.5 |  |  |  |  |  |  |  |  | 11,528 | 7,304 7,363 | 995 |  |  |  | 11,493 | 7,283 | 995 |
| 8/5/2013 | TRUE | TRUE | FALSE | 3.17 | 7.41 | 5.66 | 55\% | 43\% | 76\% |  | 1.31 | 5.5 | 5.5 | 245.00 |  |  |  | 11,565 |  |  |  | 11,550 | 7,363 7,517 | 995 | 11,565 |  |  | 11,515 | 7,338 | 995 |
| 8/6/2013 | True | TRUE | FALSE | 3.24 | 7.41 | 5.68 | 57\% | 44\% | 77\% |  | 1.30 | 5.6 | 5.6 | 230.00 | 175.00 | 0.76 |  | 10,895 | 8,290 |  |  | 11,509 | 7,517 7 7 | 995 | 10,895 | 8,290 |  | 111,477 | 7,497 <br> 7,497 | 995 |
| 87/2013 | TRUE | TRUE | FALSE | 3.19 | 18.58 | 6.86 | 47\% | 17\% | 37\% | inMaxAvgM | 2.71 | 5.6 | 5.6 |  |  |  |  |  |  |  |  | 11,509 | 7,517 | 995 |  |  |  | 11,477 | 7,497 | 995 |
| 88/2013 | True | TRUE | FALSE | 3.31 | 8.16 | 6.17 | 54\% | 41\% | 76\% |  | 1.32 | 5.6 | 5.6 | 230.00 |  |  | 20.30 | 11,835 |  | 1,045 |  | 11,556 | 7,517 | 1,005 | 11,835 |  | 1,045 | 11,523 | 7,497 | 1,005 |
| 8/9/2013 | TRUE | TRUE | FALSE | 3.13 | 7.47 | 5.58 | 56\% | 42\% | 75\% |  | 1.34 | 5.6 | 5.6 | 234.00 |  |  |  | 10,890 |  |  |  | 11,340 | 7,567 | 1,005 | 10,890 |  |  | 11,307 | 7,542 | 1,005 |
| 8/10/2013 | True | True | FALSE | 3.22 | 7.53 | 5.38 | 60\% | 43\% | 71\% |  | 1.40 | 5.6 | 5.6 |  |  |  |  |  |  |  |  | 11,340 | 7,567 | 1,005 |  |  |  | 11,307 | 7,542 | 1,005 |
| 8/11/2013 | TRUE | TRUE | FALSE | 3.29 | 7.49 | 5.46 | 60\% | 44\% | 73\% |  | 1.37 | 5.6 | 5.6 |  |  |  |  |  |  |  |  | 11,082 | 7,567 | 976 |  |  |  | 11,047 | 7,542 | 976 |
| 8/12/2013 | TRUE | TRUE | FALSE | 3.28 | 7.39 | 5.70 | 58\% | 44\% | 77\% |  | 1.30 | 5.6 | 5.7 | 227.00 |  |  |  | 10,791 |  |  |  | 10,914 | 7,567 | 976 | 10,791 |  |  | 10,879 | 7,542 | 976 |
| 8/13/2013 | TRUE | TRUE | FALSE | 3.19 | 7.37 | 5.67 | 56\% | 43\% | 77\% |  | 1.30 | 5.6 | 5.7 | 256.00 | 185.00 | 0.72 |  | 12,106 | 8,748 |  |  | 10,988 | 7,764 | 976 | 12,106 | 8,748 |  | 10,956 | 7,743 | 976 |
| 8/14/2013 | TRUE | TRUE | FALSE | 3.29 | 7.31 | 5.67 | 58\% | 45\% | 78\% |  | 1.29 | 5.6 | 5.7 |  |  |  |  |  |  |  |  | 10,988 | 7,764 | 976 |  |  |  | 10,956 | 7,743 | 976 |
| 8/15/2013 | TRUE | TRUE | FALSE | 3.33 | 7.50 | 5.77 | 58\% | 44\% | 77\% |  | 1.30 | 5.6 | 5.7 | 223.00 |  |  | 23.13 | 10,731 |  | 1,113 |  | 10,973 | 7,764 | 1,004 | 10,731 |  | 1,113 | 10,943 | 7,743 | 1,004 |
| 8/16/2013 | TRUE | TRUE | FALSE | 3.20 | 7.80 | 5.72 | 56\% | 41\% | 73\% |  | 1.36 | 5.6 | 5.6 | 234.00 |  |  |  | 11,163 |  |  |  | 10,843 | 7,764 | 1,004 | 11,163 |  |  | 10,812 | 7,743 | 1,004 |
| 8/17/2013 | TRUE | TRUE | FALSE | 3.27 | 7.77 | 5.57 | 59\% | 42\% | 71\% |  | 1.40 | 5.6 | 5.6 |  |  |  |  |  |  |  |  | 10,843 | 7,764 | 1,004 |  |  |  | 10,812 | 7,743 | 1,004 |
| 8/18/2013 | true | TRUE | FALSE | 3.30 | 8.20 | 5.78 | 57\% | 40\% | 70\% |  | 1.42 | 5.6 | 5.7 |  |  |  |  |  |  |  |  | 10,891 | 7,764 | 1,006 |  |  |  | 10,859 | 7,743 | 1,006 |
| 8/19/2013 | TRUE | TRUE | FALSE | 3.30 | 10.20 | 6.10 | 54\% | 32\% | 60\% |  | 1.67 | 5.6 | 5.7 | 274.00 |  |  |  | 13,939 |  |  |  | 11,274 | 8,075 | 1,006 | 13,939 |  |  | 11,242 | 8,050 | 1,006 |
| 8/20/2013 | TRUE | TRUE | FALSE | 3.30 | 8.40 | 6.10 | 54\% | 39\% | 73\% |  | 1.38 | 5.6 | 5.8 | 242.00 | 177.00 | 0.73 |  | 12,312 | 9,005 |  |  | 11,335 | 8,230 | 1,006 | 12,218 | 8,926 |  | 11,299 | 8,196 | 1,006 |
| 8/21/2013 | TRUE | TRUE | ${ }^{\text {FALSE }}$ | 3.50 | 8.40 | 6.14 | 57\% | ${ }^{42 \%}$ | 73\% |  | 1.37 | 5.7 | 5.9 |  |  |  |  |  |  |  |  | 11,335 | 8,230 8,230 | 1,006 1,059 |  |  |  | 11,299 11,417 | 8,196 8,196 | 1,006 1,059 |
| 8/22/2013 | TRUE | TRUE | FALSE | 3.30 | 8.50 | 6.12 | 54\% | 39\% | 72\% |  | 1.39 | 5.7 | 5.9 | 245.00 |  |  | 24.92 | 12,505 |  | 1,272 |  | 11,453 | 8,230 | 1,059 | 12,505 |  | 1,272 | 11,417 | 8,196 | 1,059 |



| 8/23/2013 | True | TRUE | FALSE | 3.42 | 8.34 | 6.06 | 56\% | 41\% | 73\% |  | 1.38 | 5.7 | 5.9 | 249.00 |  |  |  | 12,585 |  |  | ${ }^{11,586}$ | 8,246 | 1,059 | 12,585 |  |  | 11,581 | 8,231 | 1,059 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 8/24/2013 | TRUE | TRUE | FALSE | 3.33 | 8.94 | 5.94 | 56\% | 37\% | 66\% |  | 1.51 | 5.7 | 6.0 |  |  |  |  |  |  |  | 11,586 | 8,246 | 1,059 |  |  |  | 11,581 | 8,231 | 1,059 |
| 8/25/2013 | TRUE | TRUE | FALSE | 3.34 | 8.95 | 6.17 | 54\% | 37\% | 69\% |  | 1.45 | 5.7 | 6.1 |  |  |  |  |  |  |  | 11,610 | 8,246 | 1,132 |  |  |  | 11,604 | 8,231 | 1,132 |
| 8/26/2013 | true | TRUE | FALSE | 3.29 | 8.92 | 6.27 | 52\% | 37\% | 70\% |  | 1.42 | 5.7 | 6.1 | 126.00 |  |  |  | 6,589 |  |  | 11,381 | 8,246 | 1,132 | 6,589 |  |  | 11,375 | 8,231 | 1,132 |
| 8/27/2013 | FALSE | FALSE | FALSE | 3.24 | 9.09 | 6.22 | 52\% | 36\% | 68\% |  | 1.46 | 5.8 | 6.1 | 202.00 | 163.00 | 0.81 |  | 10,479 | 8,456 |  | 11,328 | 8,281 | 1,132 | 10,479 | 8,456 |  | 11,323 | 8,268 | 1,132 |
| 8/28/2013 | FALSE | FALSE | FALSE | 3.42 | 9.19 | 6.38 | 54\% | 37\% | 69\% |  | 1.44 | 5.8 | 6.2 |  |  |  |  |  |  |  | 11,328 | 8,281 | 1,132 |  |  |  | 11,323 | 8,268 | 1,132 |
| 8/29/2013 | FALSE | FALSE | FALSE | 3.26 | 9.53 | 6.31 | 52\% | 34\% | 66\% |  | 1.51 | 5.8 | 6.2 | 204.00 |  |  | 22.99 | 10,736 |  | 1,210 | 11,332 | 8,281 | 1,147 | 10,736 |  | 1,210 | 11,326 | 8,268 | 1,147 |
| 8/30/2013 | FALSE | FALSE | FALSE | 3.20 | 9.60 | 6.20 | 52\% | 33\% | 65\% |  | 1.55 | 5.8 | 6.2 | 170.00 |  |  |  | 8,790 |  |  | 11,274 | 8,401 | 1,147 | 8,790 |  |  | 11,269 | 8,385 | 1,147 |
| 8/31/2013 | FALSE | FALSE | FALSE |  |  | 5.81 |  |  |  | 'gMinMaxA' | 0.00 | 5.9 | 6.2 |  |  |  |  |  |  |  | 11,274 | 8,401 | 1,147 |  |  |  | 11,269 | 8,385 | 1,147 |
| 9/1/2013 | FALSE | FALSE | FALSE | 3.22 | 8.63 | 5.79 | 56\% | 37\% | 67\% |  | 1.49 | 5.9 | 6.2 |  |  |  |  |  |  |  | 11,274 | 8,401 | 1,160 |  |  |  | 11,269 | 8,385 | 1,160 |
| 9/2/2013 | FALSE | FALSE | FALSE | 3.20 | 8.60 | 5.80 | 55\% | 37\% | 67\% |  | 1.48 | 5.9 | 6.1 |  |  |  |  |  |  |  | 11,119 | 8,625 | 1,160 |  |  |  | 11,114 | 8,605 | 1,160 |
| 9/3/2013 | FALSE | FALSE | FALSE | 3.30 | 9.40 | 6.25 | 53\% | 35\% | 66\% |  | 1.50 | 5.9 | 6.1 | 195.00 |  |  |  | 10,164 |  |  | 11,063 | 8,625 | 1,160 | 10,164 |  |  | 11,058 | 8,605 | 1,160 |
| 9/4/2013 | FALSE | FALSE | FALSE | 3.24 | 9.16 | 6.26 | 52\% | 35\% | 68\% |  | 1.46 | 5.9 | 6.1 |  |  |  |  |  |  |  | 11,063 | 8,625 | 1,160 |  |  |  | 11,058 | 8,605 | 1,160 |
| 9/5/2013 | FALSE | FALSE | FALSE | 3.19 | 8.98 | 6.28 | 51\% | 36\% | 70\% |  | 1.43 | 5.9 | 6.1 |  |  |  | 26.42 |  |  | 1,384 | 11,032 | 8,625 | 1,205 |  |  | 1,384 | 11,026 | 8,605 | 1,205 |
| 9/6/2013 | FALSE | FALSE | FALSE | 3.19 | 8.71 | 6.17 | 52\% | 37\% | 71\% |  | 1.41 | 6.0 | 6.1 | 236.00 | 176.00 | 0.75 |  | 12,144 | 9,057 |  | 11,110 | 8,816 | 1,205 | 12,144 | 9,057 |  | 11,104 | 8,797 | 1,205 |
| 9/7/2013 | False | FALSE | FALSE | 3.23 | 8.69 | 6.04 | 53\% | 37\% | 70\% |  | 1.44 | 6.0 | 6.1 |  |  |  |  |  |  |  | 11,110 | 8,816 | 1,205 |  |  |  | 11,104 | 8,797 | 1,205 |
| 9/8/2013 | FALSE | FALSE | FALSE | 3.26 | 8.85 | 6.11 | 53\% | 37\% | 69\% |  | 1.45 | 6.0 | 6.1 |  |  |  |  |  |  |  | 11,062 | 8,816 | 1,245 |  |  |  | 11,055 | 8,797 | 1,245 |
| 9/9/2013 | FALSE | FALSE | FALSE | 3.22 | 8.46 | 6.20 | 52\% | 38\% | 73\% |  | 1.36 | 6.0 | 6.1 | 222.00 |  |  | 25.12 | 11,479 |  | 1,299 | 11,101 | 8,816 | 1,256 | 11,479 |  | 1,299 | 11,095 | 8,797 | 1,256 |
| 9/10/2013 | FALSE | FALSE | FALSE | 3.16 | 8.31 | 6.21 | 51\% | 38\% | 75\% |  | 1.34 | 6.0 | 6.2 | 239.00 | 168.00 | 0.70 |  | 12,378 | 8,701 |  | 11,181 | 8,793 | 1,256 | 12,378 | 8,701 |  | 11,175 | 8,777 | 1,256 |
| 9/11/2013 | FALSE | FALSE | FALSE | 3.41 | 8.85 | 6.83 | 50\% | 39\% | 77\% |  | 1.30 | 6.1 | 6.3 |  |  |  |  |  |  |  | 11,181 | 8,793 | 1,256 |  |  |  | 11,175 | 8,777 | 1,256 |
| 9/12/2013 | FALSE | FALSE | FALSE | 3.30 | 8.83 | 6.59 | 50\% | 37\% | 75\% |  | 1.34 | 6.1 | 6.3 | 230.00 |  |  |  | 12,641 |  |  | 11,296 | 8,793 | 1,256 | 12,641 |  |  | 11,290 | 8,777 | 1,256 |
| 9/13/2013 | FALSE | FALSE | FALSE | 3.23 | 8.86 | 6.33 | 51\% | 36\% | 71\% |  | 1.40 | 6.1 | 6.3 |  | 94.00 |  |  |  | 4,962 |  | 11,242 | 8,036 | 1,256 |  | 4,962 |  | 11,236 | 8,020 | 1,256 |
| 9/14/2013 | FALSE | FALSE | FALSE | 3.33 | 9.12 | 6.08 | 55\% | 37\% | 67\% |  | 1.50 | 6.1 | 6.3 |  |  |  |  |  |  |  | 11,242 | 8,036 | 1,256 |  |  |  | 11,236 | 8,020 | 1,256 |
| 9/15/2013 | FALSE | FALSE | FALSE | 3.29 | 8.70 | 6.11 | 54\% | 38\% | 70\% |  | 1.42 | 6.1 | 6.3 |  |  |  |  |  |  |  | 11,279 | 8,036 | 1,291 |  |  |  | 11,272 | 8,020 | 1,291 |
| 9/16/2013 | FALSE | FALSE | FALSE | 3.33 | 8.87 | 6.34 | 53\% | 38\% | 71\% |  | 1.40 | 6.2 | 6.3 | 213.00 |  |  |  | 11,263 |  |  | 11,286 | 8,036 | 1,291 | 11,263 |  |  | 11,279 | 8,020 | 1,291 |
| 9/17/2013 | FALSE | FALSE | FALSE | 3.45 | 8.90 | 6.23 | 55\% | 39\% | 70\% |  | 1.43 | 6.2 | 6.3 | 231.00 | 142.00 | 0.61 |  | 12,002 | 7,378 |  | 11,334 | 7,926 | 1,291 | 12,002 | 7,378 |  | 11,327 | 7,913 | 1,291 |
| 9/18/2013 | FALSE | FALSE | FALSE | 3.37 | 9.15 | 6.33 | 53\% | 37\% | 69\% |  | 1.45 | 6.2 | 6.4 |  |  |  |  |  |  |  | 11,334 | 7,926 | 1,291 |  |  |  | 11,327 | 7,913 | 1,291 |
| 9/19/2013 | FALSE | FALSE | FALSE | 3.35 | 8.84 | 6.25 | 54\% | 38\% | 71\% |  | 1.41 | 6.2 | 6.3 | 280.00 |  |  | 22.01 | 14,595 |  | 1,147 | 11,377 | 7,926 | 1,262 | 14,595 |  | 1,147 | 11,371 | 7,913 | 1,262 |
| 9/20/2013 | FALSE | FALSE | FALSE | 3.26 | 8.89 | 6.09 | 54\% | 37\% | 69\% |  | 1.46 | 6.2 | 6.2 | 223.00 | 160.00 | 0.72 |  | 11,326 | 8,126 |  | 11,312 | 7,780 | 1,262 | 11,326 | 8,126 |  | 11,312 | 7,780 | 1,262 |
| 9/21/2013 | FALSE | FALSE | TRUE | 3.33 | 10.01 | 6.57 | 51\% | 33\% | 66\% |  | 1.52 | 6.2 | 6.3 |  |  |  |  |  |  |  | 11,312 | 7,780 | 1,262 |  |  |  | 11,312 | 7,780 | 1,262 |
| 9/22/2013 | FALSE | FALSE | TRUE | 3.34 | 9.76 | 6.56 | 51\% | 34\% | 67\% |  | 1.49 | 6.2 | 6.3 |  |  |  |  |  |  |  | 11,226 | 7,780 | 1,260 |  |  |  | 11,226 | 7,780 | 1,260 |
| 9/23/2013 | FALSE | FALSE | FALSE | 3.34 | 9.01 | 6.45 | 52\% | 37\% | 72\% |  | 1.40 | 6.2 | 6.4 | 254.00 |  |  |  | 13,663 |  |  | 11,304 | 7,780 | 1,260 | 13,663 |  |  | 11,304 | 7,780 | 1,260 |
| 9/24/2013 | FALSE | FALSE | TRUE | 3.29 | 10.10 | 6.51 | 51\% | 33\% | 64\% |  | 1.55 | 6.3 | 6.4 | 222.00 | 172.00 | 0.77 |  | 12,053 | 9,338 |  | 11,354 | 8,003 | 1,260 | 11,821 | 9,255 |  | 11,338 | 7,991 | 1,260 |
| 9/25/2013 | FALSE | FALSE | TRUE | 3.37 | 9.54 | 6.47 | 52\% | 35\% | 68\% |  | 1.47 | 6.3 | 6.4 |  |  |  |  |  |  |  | 11,354 | 8,003 | 1,260 |  |  |  | 11,338 | 7,991 | 1,260 |
| 9/26/2013 | FALSE | FALSE | FALSE | 3.32 | 9.16 | 6.48 | 51\% | 36\% | 71\% |  | 1.41 | 6.3 | 6.4 | 235.00 |  |  | 23.21 | 12,700 |  | 1,254 | 11,761 | 8,003 | 1,259 | 12,700 |  | 1,254 | 11,745 | 7,991 | 1,259 |
| 9/27/2013 | FALSE | FALSE | FALSE | 3.30 | 8.68 | 6.17 | 53\% | 38\% | 71\% |  | 1.41 | 6.3 | 6.4 | 247.00 |  |  |  | 12,710 |  |  | 11,910 | 7,927 | 1,259 | 12,710 |  |  | 11,894 | 7,913 | 1,259 |
| 9/28/2013 | FALSE | FALSE | FALSE | 3.23 | 9.05 | 6.10 | 53\% | 36\% | 67\% |  | 1.48 | 6.3 | 6.4 |  |  |  |  |  |  |  | 11,910 | 7,927 | 1,259 |  |  |  | 11,894 | 7,913 | 1,259 |
| 9/29/2013 | FALSE | FALSE | FALSE | 3.30 | 10.50 | 6.31 | 52\% | 31\% | 60\% |  | 1.66 | 6.3 | 6.4 |  |  |  |  |  |  |  | 11,994 | 7,927 | 1,271 |  |  |  | 11,977 | 7,913 | 1,271 |
| 9/30/2013 | FALSE | FALSE | FALSE | 3.30 | 9.00 | 6.21 | 53\% | 37\% | 69\% |  | 1.45 | 6.3 | 6.3 | 212.00 |  |  |  | 10,980 |  |  | 12,150 | 7,927 | 1,271 | 10,980 |  |  | 12,133 | 7,913 | 1,271 |
| 10/1/2013 | FALSE | FALSE | FALSE | 3.24 | 8.92 | 6.16 | 53\% | 36\% | 69\% |  | 1.45 | 6.3 | 6.3 | 231.00 | 181.00 | 0.78 |  | 11,867 | 9,299 |  | 12,131 | 8,123 | 1,271 | 11,867 | 9,299 |  | 12,116 | 8,111 | 1,271 |
| 10/2/2013 | FALSE | FALSE | FALSE | 3.20 | 9.00 | 6.14 | 52\% | 36\% | 68\% |  | 1.47 | 6.3 | 6.3 |  |  |  |  |  |  |  | 12,131 | 8,123 | 1,271 |  |  |  | 12,116 | 8,111 | 1,271 |
| 10/3/2013 | FALSE | FALSE | FALSE | 3.30 | 9.10 | 6.24 | 53\% | 36\% | 69\% |  | 1.46 | 6.3 | 6.2 | 223.00 |  |  | 24.06 | 11,605 |  | 1,252 | 12,098 | 8,123 | 1,267 | 11,605 |  | 1,252 | 12,084 | 8,111 | 1,267 |
| 10/4/2013 | FALSE | FALSE | FALSE | 3.32 | 8.63 | 6.10 | 54\% | 38\% | 71\% |  | 1.41 | 6.3 | 6.2 | 246.00 | 157.00 | 0.64 |  | 12,515 | 7,987 |  | 12,245 | 8,106 | 1,267 | 12,515 | 7,987 |  | 12,231 | 8,096 | 1,267 |
| 10/5/2013 | FALSE | FALSE | FALSE | 3.23 | 9.17 | 6.10 | 53\% | 35\% | 67\% |  | 1.50 | 6.3 | 6.2 |  |  |  |  |  |  |  | 12,245 | 8,106 | 1,267 |  |  |  | 12,231 | 8,096 | 1,267 |
| 10/6/2013 | FALSE | FALSE | FALSE | 3.30 | 8.90 | 6.10 | 54\% | 37\% | 69\% |  | 1.46 | 6.3 | 6.2 |  |  |  |  |  |  |  | 12,245 | 8,106 | 1,238 |  |  |  | 12,231 | 8,096 | 1,238 |
| 10/7/2013 | FALSE | FALSE | FALSE | 3.32 | 8.70 | 6.22 | 53\% | 38\% | 71\% |  | 1.40 | 6.3 | 6.2 | 279.00 |  |  |  | 14,473 |  |  | 12,391 | 7,970 | 1,238 | 14,473 |  |  | 12,376 | 7,958 | 1,238 |
| 10/8/2013 | FALSE | FALSE | FALSE | 3.34 | 8.95 | 6.19 | 54\% | 37\% | 69\% |  | 1.45 | 6.3 | 6.2 | 192.00 | 157.00 | 0.82 |  | 9,912 | 8,105 |  | 12,245 | 7,987 | 1,238 | 9,912 | 8,105 |  | 12,231 | 7,977 | 1,238 |
| 10/9/2013 | FALSE | FALSE | FALSE | 3.34 | 9.09 | 6.23 | 54\% | 37\% | 69\% |  | 1.46 | 6.3 | 6.2 |  |  |  |  |  |  |  | 12,245 | 7,987 | 1,238 |  |  |  | 12,231 | 7,977 | 1,238 |
| 10/10/2013 | FALSE | FALSE | FALSE | 3.33 | 8.68 | 6.26 | 53\% | 38\% | 72\% |  | 1.39 | 6.3 | 6.2 | 270.00 |  |  | 34.04 | 14,096 |  | 1,777 | 12,399 | 7,987 | 1,358 | 14,096 |  | 1,777 | 12,385 | 7,977 | 1,358 |
| 10/11/2013 | FALSE | FALSE | FALSE | 3.20 | 8.70 | 6.16 | 52\% | 37\% | 71\% |  | 1.41 | 6.3 | 6.2 | 209.00 | 177.00 | 0.85 |  | 10,737 | 9,093 |  | 12,302 | 8,036 | 1,358 | 10,737 | 9,093 |  | 12,289 | 8,026 | 1,358 |
| 10/12/2013 | FALSE | FALSE | TRUE | 3.30 | 9.10 | 6.01 | 55\% | 36\% | 66\% |  | 1.51 | 6.3 | 6.2 |  |  |  |  |  |  |  | 12,302 | 8,036 | 1,358 |  |  |  | 12,289 | 8,026 | 1,358 |
| 10/13/2013 | FALSE | FALSE | FALSE | 3.25 | 9.52 | 6.03 | 54\% | 34\% | 63\% |  | 1.58 | 6.2 | 6.2 |  |  |  |  |  |  |  | 12,281 | 8,036 | 1,358 |  |  |  | 12,267 | 8,026 | 1,358 |
| 10/14/2013 | FALSE | FALSE | FALSE | 3.26 | 8.73 | 6.16 | 53\% | 37\% | 71\% |  | 1.42 | 6.2 | 6.2 | 232.00 |  |  |  | 11,919 |  |  | 12,260 | 8,475 | 1,358 | 11,919 |  |  | 12,246 | 8,463 | 1,358 |
| 10/15/2013 | FALSE | FALSE | FALSE | 3.25 | 8.68 | 6.16 | 53\% | 37\% | 71\% |  | 1.41 | 6.2 | 6.2 | 231.00 | 200.00 | 0.87 |  | 11,867 | 10,275 |  | 12,238 | 8,700 | 1,358 | 11,496 | 10,196 |  | 12,205 | 8,680 | 1,358 |
| 10/16/2013 | FALSE | FALSE | FALSE | 3.22 | 8.80 | 6.15 | 52\% | 37\% | 70\% |  | 1.43 | 6.2 | 6.1 |  |  |  |  |  |  |  | 12,238 | 8,700 | 1,358 |  |  |  | 12,205 | 8,680 | 1,358 |
| 10/17/2013 | FALSE | FALSE | FALSE | 3.31 | 8.94 | 6.22 | 53\% | 37\% | 70\% |  | 1.44 | 6.2 | 6.1 | 251.00 |  |  | 28.72 | 13,021 |  | 1,490 | 12,336 | 8,700 | 1,384 | 13,021 |  | 1,990 | 12,302 | 8,680 | 1,384 |
| 10/18/2013 | FALSE | FALSE | FALSE | 3.34 | 8.82 | 6.10 | 55\% | 38\% | 69\% |  | 1.45 | 6.2 | 6.1 | 242.00 | 192.00 | 0.79 |  | 12,312 | 9,768 |  | 12,353 | 8,999 | 1,384 | 12,312 | 9,768 |  | 12,319 | 8,979 | 1,384 |
| 10/19/2013 | FALSE | FALSE | FALSE | 3.31 | 8.98 | 5.99 | 55\% | 37\% | 67\% |  | 1.50 | 6.2 | 6.1 |  |  |  |  |  |  |  | 12,353 | 8,999 | 1,384 |  |  |  | 12,319 | 8,979 | 1,384 |
| 10/20/2013 | FALSE | FALSE | FALSE | 3.24 | 9.13 | 6.03 | 54\% | 35\% | 66\% |  | 1.51 | 6.2 | 6.1 |  |  |  |  |  |  |  | 12,221 | 8,999 | 1,443 |  |  |  | 12,186 | 8,979 | 1,443 |
| 10/21/2013 | FALSE | FALSE | FALSE | 3.24 | 8.76 | 6.34 | 51\% | 37\% | 72\% |  | 1.38 | 6.2 | 6.1 | 225.00 |  |  |  | 11,897 |  |  | 12,255 | 9,124 | 1,443 | 11,897 |  |  | 12,219 | 9,101 | 1,443 |
| 10/22/2013 | FALSE | FALSE | FALSE | 3.27 | 8.53 | 6.13 | 53\% | 38\% | 72\% |  | 1.39 | 6.2 | 6.1 | 248.00 | 164.00 | 0.66 |  | 12,679 | 8,384 |  | 12,278 | 9,031 | 1,443 | 12,679 | 8,384 |  | 12,245 | 9,011 | 1,443 |
| 10/23/2013 | FALSE | FALSE | FALSE | 3.23 | 8.43 | 6.17 | 52\% | 38\% | 73\% |  | 1.37 | 6.2 | 6.1 |  |  |  |  |  |  |  | 12,278 | 9,031 | 1,443 |  |  |  | 12,245 | 9,011 | 1,443 |
| 10/24/2013 | False | FALSE | FALSE | 3.26 | 12.29 | 6.63 | 49\% | 27\% | 54\% | AvgMax | 1.85 | 6.2 | 6.1 | 158.00 |  |  | 30.26 | 8,736 |  | 1,673 | 12,004 | 9,031 | 1,489 | 8,736 |  | 1,673 | 11,971 | 9,011 | 1,489 |


| Date | $\begin{aligned} & \text { Butte } \\ & \text { Break? } \end{aligned}$ | $\begin{gathered} \text { cSU } \\ \text { Break? } \end{gathered}$ | Precip? |  | $\underset{\substack{\text { Max } \\ \text { Influent } \\ \text { Flow, } \text { mgd }}}{\text { and }}$ | $\begin{gathered} \text { Avg } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | $\underset{\text { Min \% of }}{\substack{\text { Avg }}}$ | $\underset{\text { Max }}{\operatorname{Min}_{\text {max }}}$ | $\begin{gathered} \text { Avg } \% \text { of } \\ \text { Max } \end{gathered}$ | $\begin{aligned} & \text { Flow } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | $\begin{aligned} & \text { Diurnal } \\ & \text { Peak } \\ & \text { Factor } \\ & \text { (DPFF) } \end{aligned}$ | $\begin{aligned} & \text { 30-d Avg } \\ & \text { of Avg } \\ & \text { Flow, mgd } \end{aligned}$ | 7-d Avg of Avg Flow, mgd | Influent TSS Conc., mg/L | Influent BOD Conc., mg/L. | BOD/Tss | Influent NH3-N Conc., mg/L | Avg Inf TSS Load, ppd | $\begin{gathered} \text { Avg } \operatorname{lnf} \\ \text { BOD Load, } \\ \text { ppd } \end{gathered}$ | Avg lnf NH3 Load, ppd | $\begin{aligned} & \text { Load } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | 30-d Avg of TSS Load, ppd | ${ }^{30-\mathrm{d}} \mathrm{Avg}$ of BOD Load, ppd | 30-d Avg of NH3-N Load, ppd | non-SN TSS Load, ppd | $\begin{gathered} \text { non-SN } \\ \text { BOD Load, } \\ \text { ppd } \end{gathered}$ | NH3 Load, ppd | 30-d Avg of non-SN TSS Load, ppd | 30-d Avg of non-SN BOD Load, ppd | $\begin{aligned} & \text { 30-d Avg } \\ & \text { of non-SN } \\ & \text { NH3-N } \\ & \text { Load, ppd } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 10/25/2013 | FALSE | FALSE | FALSE | 3.37 | 8.39 | 6.12 | 55\% | 40\% | 73\% |  | 1.37 | 6.2 | 6.1 | 158.00 | 141.00 | 0.89 |  | 8,064 | 7,197 |  |  | 11,783 | 8,764 | 1,489 | 8,064 | 7,197 |  | 11,762 | 8,754 | 1,489 |
| 10/26/2013 | FALSE | FALSE | FALSE | 3.36 | 8.95 | 5.92 | 57\% | 38\% | 66\% |  | 1.51 | 6.2 | 6.1 |  |  |  |  |  |  |  |  | 11,783 | 8,764 | 1,489 |  |  |  | 11,762 | 8,754 | 1,489 |
| 10/27/2013 | FALSE | FALSE | True | 3.26 | 8.71 | 6.03 | 54\% | 37\% | 69\% |  | 1.44 | 6.1 | 6.1 |  |  |  |  |  |  |  |  | 11,729 | 8,764 | 1,548 |  |  |  | 11,707 | 8,754 | 1,548 |
| 10/28/2013 | FALSE | FALSE | TRUE | 3.28 | 8.59 | 6.22 | 53\% | 38\% | 72\% |  | 1.38 | 6.1 | 6.1 | 220.00 |  |  |  | 11,412 |  |  |  | 11,653 | 8,764 | 1,548 | 11,412 |  |  | 11,631 | 8,754 | 1,548 |
| 10/29/2013 | FALSE | FALSE | FALSE | 3.20 | 9.16 | 6.10 | 52\% | 35\% | 67\% |  | 1.50 | 6.1 | 6.1 | 249.00 | 193.00 | 0.78 |  | 12,668 | 9,819 |  |  | 11,709 | 8,881 | 1,548 | 12,668 | 9,819 |  | 11,688 | 8,872 | 1,548 |
| 10/30/2013 | FALSE | FALSE | false |  | 8.17 | 5.55 |  |  | 68\% | inAvgMinM | 1.47 | 6.1 | 6.1 |  |  |  |  |  |  |  |  | 11,709 | 8,881 | 1,548 |  |  |  | 11,688 | 8,872 | 1,548 |
| 10/31/2013 | FALSE | FALSE | FALSE | 3.45 | 8.16 | 6.10 | 57\% | 42\% | 75\% |  | 1.34 | 6.1 | 6.1 | 272.00 |  |  | 24.89 | 13,838 |  | 1,266 |  | 11,868 | 8,881 | 1,492 | 13,838 |  | 1,266 | 11,847 | 8,872 | 1,492 |
| 11/1/2013 | FALSE | FALSE | FALSE | 3.40 | 8.10 | 6.16 | 55\% | 42\% | 76\% |  | 1.31 | 6.1 | 6.1 | 242.00 | 201.00 | 0.83 |  | 12,433 | 10,326 |  |  | 11,899 | 8,995 | 1,492 | 12,433 | 10,326 |  | 11,879 | 8,986 | 1,492 |
| 11/2/2013 | FALSE | FALSE | FALSE | 3.30 | 8.60 | 6.16 | 54\% | 38\% | 72\% |  | 1.40 | 6.1 | 6.1 |  |  |  |  |  |  |  |  | 11,899 | 8,995 | 1,492 |  |  |  | 11,879 | 8,986 | 1,492 |
| 11/3/2013 | FALSE | FALSE | false | 3.29 | 9.08 | 6.15 | 53\% | 36\% | 68\% |  | 1.48 | 6.1 | 6.1 |  |  |  |  |  |  |  |  | 11,916 | 8,995 | 1,552 |  |  |  | 11,895 | 8,986 | 1,552 |
| 11/4/2013 | FALSE | FALSE | false | 3.31 | 9.17 | 6.62 | 50\% | 36\% | 72\% |  | 1.39 | 6.1 | 6.2 | 222.00 |  |  |  | 12,257 |  |  |  | 11,901 | 9,121 | 1,552 | 12,257 |  |  | 11,879 | 9,111 | 1,552 |
| 11/5/2013 | FALSE | FALSE | false | 6.42 | 12.43 | 9.71 | 66\% | 52\% | 78\% |  | 1.28 | 6.3 | 6.7 | 217.00 | 196.00 | 0.90 |  | 17,573 | 15,872 |  |  | 12,216 | 9,871 | 1,552 | 17,573 | 15,872 |  | 12,196 | 9,862 | 1,552 |
| 11/6/2013 | FALSE | FALSE | false | 3.37 | 11.80 | 6.66 | 51\% | 29\% | 56\% | AvgMax | 1.77 | 6.3 | 6.8 |  |  |  |  |  |  |  |  | 12,216 | 9,871 | 1,552 |  |  |  | 12,196 | 9,862 | 1,552 <br> 1,537 |
| 11/7/2013 | FALSE | FALSE | FALSE | 3.32 | 8.59 | 6.18 | 54\% | 39\% | 72\% |  | 1.39 | 6.3 | 6.7 | 259.00 |  |  | 28.64 | 13,349 |  | 1,476 |  | 12,154 | 9,871 | 1,537 | 13,349 |  | 1,476 | 12,133 | 9,862 | 1,537 |
| 11/8/2013 | FALSE | FALSE | FALSE | 3.33 | 8.96 | 6.12 | 54\% | 37\% | 68\% |  | 1.46 | 6.3 | 6.7 | 277.00 | 195.00 | 0.70 |  | 14,138 | 9,953 |  |  | 12,389 | 10,076 | 1,537 | 14,138 | 9,953 |  | 12,368 | 10,068 | 1,537 |
| 11/9/2013 | FALSE | FALSE | false | 3.26 | 8.89 | 6.03 | 54\% | 37\% | 68\% |  | 1.47 | 6.3 | 6.7 |  |  |  |  |  |  |  |  | 12,389 | 10,076 | 1,537 |  |  |  | 12,368 | 10,068 | 1,537 |
| 11/10/2013 | FALSE | FALSE | FALSE | 3.26 | 8.93 | 5.97 | 55\% | 37\% | 67\% |  | 1.50 | 6.3 | 6.7 |  |  |  |  |  |  |  |  | 12,288 | 10,076 | 1,476 |  |  |  | 12,266 | 10,068 | 1,476 |
| 11/11/2013 | FALSE | FALSE | FALSE | 3.30 | 9.30 | 6.30 | 52\% | 35\% | 68\% |  | 1.48 | 6.3 | 6.7 |  |  |  |  |  |  |  |  | 12,385 | 10,199 | 1,476 |  |  |  | 12,362 | 10,189 | 1,476 |
| 11/12/2013 | FALSE | FALSE | false | 3.30 | 9.00 | 6.28 | 53\% | 37\% | 70\% |  | 1.43 | 6.3 | 6.7 | 223.00 | 215.00 | 0.96 |  | 11,680 | 11,261 |  |  | 12,344 | 10,317 | 1,476 | 11,342 | 11,081 |  | 12,302 | 10,288 | 1,476 |
| 11/13/2013 | FALSE | FALSE | FALSE | 3.31 | 9.06 | 6.40 | 52\% | 37\% | 71\% |  | 1.42 | 6.3 | 6.2 |  |  |  |  |  |  |  |  | 12,344 | 10,317 | 1,476 |  |  |  | 12,302 | 10,288 | 1,476 |
| 11/14/2013 | FALSE | FALSE | false | 3.30 | 8.83 | 6.30 | 52\% | 37\% | 71\% |  | 1.40 | 6.3 | 6.2 | 235.00 |  |  | 27.28 | 12,347 |  | 1,433 |  | 12,369 | 10,317 | 1,468 | 12,347 |  | 1,433 | 12,327 | 10,288 | 1,468 |
| 11/15/2013 | FALSE | FALSE | FALSE | 3.27 | 8.67 | 6.23 | 52\% | 38\% | 72\% |  | 1.39 | 6.3 | 6.2 | 300.00 | 256.00 | 0.85 |  | 15,587 | 13,301 |  |  | 12,588 | 10,653 | 1,468 | 15,587 | 13,301 |  | 12,568 | 10,633 | 1,468 |
| 11/16/2013 | FALSE | FALSE | false | 3.28 | 8.88 | 6.09 | 54\% | 37\% | 69\% |  | 1.46 | 6.3 | 6.2 |  |  |  |  |  |  |  |  | 12,588 | 10,653 | 1,468 |  |  |  | 12,568 | 10,633 | 1,468 |
| 11/17/2013 | FALSE | FALSE | FALSE | 3.25 | 9.51 | 6.23 | 52\% | 34\% | 66\% |  | 1.53 | 6.3 | 6.2 |  |  |  |  |  |  |  |  | 12,561 | 10,653 | 1,462 |  |  |  | 12,540 | 10,633 | 1,462 |
| 11/18/2013 | FALSE | FALSE | false | 3.29 | 8.78 | 6.30 | 52\% | 37\% | 72\% |  | 1.39 | 6.3 | 6.3 | 160.00 |  |  |  | 8,407 |  |  |  | 12,317 | 10,764 | 1,462 | 8,407 |  |  | 12,296 | 10,742 | 1,462 |
| 11/19/2013 | FALSE | FALSE | True | 3.44 | 9.33 | 6.94 | 50\% | 37\% | 74\% |  | 1.34 | 6.3 | 6.3 | 194.00 | 192.00 | 0.99 |  | 11,229 | 11,113 |  |  | 12,253 | 10,803 | 1,462 | 11,229 | 11,113 |  | 12,233 | 10,783 | 1,462 |
| 11/20/2013 | FALSE | FALSE | true | 3.53 | 9.79 | 6.93 | 51\% | 36\% | 71\% |  | 1.41 | 6.4 | 6.4 |  |  |  | 20.27 |  |  | 1,172 |  | 12,253 | 10,803 | 1,404 |  |  | 1,172 | 12,233 | 10,783 | 1,404 |
| 11/21/2013 | FALSE | FALSE | FALSE | 3.55 | 9.49 | 6.79 | 52\% | 37\% | 72\% |  | 1.40 | 6.4 | 6.5 | 217.00 |  |  |  | 12,288 |  |  |  | 12,276 | 10,803 | 1,404 | 12,288 |  |  | 12,256 | 10,783 | 1,404 |
| 11/22/2013 | FALSE | true | false | 3.30 | 9.01 | 6.39 | 52\% | 37\% | 71\% |  | 1.41 | 6.4 | 6.5 |  |  |  |  |  |  |  |  | 12,250 | 11,105 | 1,404 |  |  |  | 12,229 | 11,083 | 1,404 |
| 11/23/2013 | FALSE | true | FALSE | 3.22 | 9.43 | 5.97 | 54\% | 34\% | 63\% |  | 1.58 | 6.4 | 6.5 |  |  |  |  |  |  |  |  | 12,250 | 11,105 | 1,404 |  |  |  | 12,229 | 11,083 | 1,404 |
| 11/24/2013 | FALSE | true | false | 3.22 | 9.05 | 5.87 | 55\% | 36\% | 65\% |  | 1.54 | 6.4 | 6.4 |  |  |  |  |  |  |  |  | 12,485 | 11,105 | 1,337 |  |  |  | 12,462 | 11,083 | 1,337 |
| 11/25/2013 | FALSE | true | FALSE | 3.24 | 8.82 | 5.98 | 54\% | 37\% | 68\% |  | 1.47 | 6.4 | 6.4 | 232.00 |  |  |  | 11,571 |  |  |  | 12,718 | 11,664 | 1,337 | 11,571 |  |  | 12,696 | 11,638 | 1,337 |
| 11/26/2013 | FALSE | true | FALSE | 3.19 | 8.42 | 5.96 | 54\% | 38\% | 71\% |  | 1.41 | 6.4 | 6.4 | 210.00 |  |  |  | 10,438 |  |  |  | 12,576 | 11,664 | 1,337 | 10,438 |  |  | 12,555 | 11,638 | 1,337 |
| 11/27/2013 | True | TRUE | false | 3.19 | 8.60 | 5.91 | 54\% | 37\% | 69\% |  | 1.46 | 6.4 | 6.2 |  |  |  | 23.23 |  |  | 1,145 |  | 12,576 | 11,664 | 1,298 |  |  | 1,145 | 12,555 | 11,638 | 1,298 |
| 11/28/2013 | TRUE | true | false | 3.21 | 9.33 | 5.34 | 60\% | 34\% | 57\% | AvgMax | 1.75 | 6.4 | 6.1 |  |  |  |  |  |  |  |  | 12,653 | 11,664 | 1,298 |  |  |  | 12,631 | 11,638 | 1,298 |
| 11/29/2013 | True | TRUE | false | 3.25 | 8.00 | 5.41 | 60\% | 41\% | 68\% |  | 1.48 | 6.3 | 5.9 |  |  |  |  |  |  |  |  | 12,652 | 11,971 | 1,298 |  |  |  | 12,628 | 11,941 | 1,298 |
| 11/30/2013 | TRUE | true | false | 3.29 | 8.29 | 5.54 | 59\% | 40\% | 67\% |  | 1.50 | 6.3 | 5.8 |  |  |  |  |  |  |  |  | 12,652 | 11,971 | 1,298 |  |  |  | 12,628 | 11,941 | 1,298 |
| 12/1/2013 | TRUE | TRUE | FALSE | 3.26 | 8.79 | 6.00 | 54\% | 37\% | 68\% |  | 1.47 | 6.3 | 5.8 |  |  |  |  |  |  |  |  | 12,561 | 11,971 | 1,307 |  |  |  | 12,535 | 11,941 | 1,307 |
| 12/2/2013 | TRUE | TRUE | FALSE | 3.28 | 8.83 | 6.24 | 53\% | 37\% | 71\% |  | 1.42 | 6.3 | 5.9 | 297.00 |  |  |  | 15,456 |  |  |  | 12,794 | 12,300 | 1,307 | 15,456 |  |  | 12,768 | 12,264 | 1,307 |
| 12/3/2013 | FALSE | FALSE | false | 3.28 | 8.97 | 6.22 | 53\% | 37\% | 69\% |  | 1.44 | 6.3 | 5.9 | 230.00 | 257.00 | 1.12 |  | 11,931 | 13,332 |  |  | 12,732 | 12,472 | 1,307 | 11,409 | 13,176 |  | 12,671 | 12,416 | 1,307 |
| 12/4/2013 | FALSE | FALSE | FALSE | 3.25 | 9.29 | 6.32 | 51\% | 35\% | 68\% |  | 1.47 | 6.3 | 5.9 |  |  |  |  |  |  |  |  | 12,732 | 12,472 | 1,307 |  |  |  | 12,671 | 12,416 | 1,307 |
| 12/5/2013 | FALSE | FALSE | FALSE | 3.26 | 9.17 | 6.17 | 53\% | 36\% | 67\% |  | 1.49 | 6.3 | 6.0 |  |  |  | 23.99 |  |  | 1,234 |  | 12,769 | 12,472 | 1,292 |  |  | 1,234 | 12,703 | 12,416 | 1,292 |
| 12/6/2013 | FALSE | FALSE | TRUE | 3.26 | 9.15 | 6.43 | 51\% | 36\% | 70\% |  | 1.42 | 6.2 | 6.0 | 320.00 | 537.00 | 1.68 |  | 17,160 | 28,797 |  | BоD | 12,737 | 11,792 | 1,292 | 17,160 | 28,797 |  | 12,671 | 11,725 | 1,292 |
| 12/7/2013 | FALSE | FALSE | FALSE | 3.35 | 9.65 | 6.28 | 53\% | 35\% | 65\% |  | 1.54 | 6.2 | 6.2 |  |  |  |  |  |  |  |  | 12,737 | 11,792 | 1,292 |  |  |  | 12,671 | 11,725 | 1,292 |
| 12/8/2013 | FALSE | FALSE | FALSE | 3.38 | 8.76 | 4.94 | 68\% | 39\% | 56\% | AveMax | 1.77 | 6.2 | 6.2 |  |  |  |  |  |  |  |  | 12,886 | 11,792 | 1,246 |  |  |  | 12,615 | 11,725 | 1,246 |
| 12/9/2013 | FALSE | FALSE | FALSE | 3.38 | 9.25 | 6.40 | 53\% | 37\% | 69\% |  | 1.45 | 6.2 | 6.3 | 237.00 |  |  |  | 12,650 |  |  |  | 12,562 | 12,252 | 1,246 | 12,650 |  |  | 12,491 | 12,168 | 1,246 |
| 12/10/2013 | FALSE | false | FALSE | 3.28 | 9.09 | 6.26 | 52\% | 36\% | 69\% |  | 1.45 | 6.2 | 6.3 | 239.00 |  |  |  | 12,478 |  |  |  | 12,556 | 12,252 | 1,246 | 12,478 |  |  | 12,490 | 12,168 | 1,246 |
| 12/11/2013 | FALSE | FALSE | FALSE | 3.22 | 9.39 | 6.29 | 51\% | 34\% | 67\% |  | 1.49 | 6.2 | 6.3 |  |  |  |  |  |  |  |  | 12,556 | 12,252 | 1,246 |  |  |  | 12,490 | 12,168 | 1,246 |
| 12/12/2013 | FALSE | FALSE | FALSE | 3.27 | 9.08 | 6.25 | 52\% | 36\% | 69\% |  | 1.45 | 6.2 | 6.3 | 345.00 |  |  | 29.48 | 17,983 |  | 1,537 |  | 12,943 | 12,252 | 1,304 | 17,983 |  | 1,537 | 12,882 | 12,168 | 1,304 |
| 12/13/2013 | FALSE | FALSE | FALSE | 3.30 | 9.10 | 6.25 | 53\% | 36\% | 69\% |  | 1.46 | 6.2 | 6.3 | 225.00 | 429.00 | 1.91 |  | 11,728 | 22,362 |  | BOD | 12,947 | 12,582 | 1,304 | 11,728 | 22,362 |  | 12,909 | 12,530 | 1,304 |
| 12/14/2013 | FALSE | FALSE | FALSE | 3.30 | 9.60 | 6.14 | 54\% | 34\% | 64\% |  | 1.56 | 6.2 | 6.3 |  |  |  |  |  |  |  |  | 12,947 | 12,582 | 1,304 |  |  |  | 12,909 | 12,530 | 1,304 |
| 12/15/2013 | FALSE | FALSE | FALSE | 3.24 | 9.40 | 6.15 | 53\% | 34\% | 65\% |  | 1.53 | 6.2 | 6.2 |  |  |  |  |  |  |  |  | 12,993 | 12,582 | 1,272 |  |  |  | 12,953 | 12,530 | 1,272 |
| 12/16/2013 | FALSE | FALSE | FALSE | 3.20 | 9.19 | 6.25 | 51\% | 35\% | 68\% |  | 1.47 | 6.2 | 6.2 | 277.00 |  |  |  | 14,439 |  |  |  | 12,904 | 12,222 | 1,272 | 14,439 |  |  | 12,864 | 12,144 | 1,272 |
| 12/17/2013 | FALSE | FALSE | FALSE | 3.26 | 8.84 | 6.21 | 52\% | 37\% | 70\% |  | 1.42 | 6.2 | 6.2 | 236.00 |  |  |  | 12,223 |  |  |  | 12,856 | 12,222 | 1,272 | 12,223 |  |  | 12,819 | 12,144 | 1,272 |
| 12/18/2013 | FALSE | FALSE | FALSE | 3.29 | 9.11 | 6.21 | 53\% | 36\% | 68\% |  | 1.47 | 6.2 | 6.2 |  |  |  |  |  |  |  |  | 12,856 | 12,222 | 1,272 |  |  |  | 12,819 | 12,144 | 1,272 |
| 12/19/2013 | FALSE | FALSE | FALSE | 3.27 | 8.89 | 6.14 | 53\% | 37\% | 69\% |  | 1.45 | 6.2 | 6.2 | 248.00 | 241.00 | 0.97 |  | 12,699 | 12,341 |  |  | 13,162 | 12,262 | 1,272 | 12,699 | 12,341 |  | 13,125 | 12,210 | 1,272 |
| 12/20/2013 | TRUE | True | FALSE | 3.21 | 8.93 | 6.04 | 53\% | 36\% | 68\% |  | 1.48 | 6.2 | 6.2 | 270.00 |  |  | 24.27 | 13,601 |  | 1,223 |  | 13,332 | 12,836 | 1,262 | 13,601 |  | 1,223 | 13,295 | 12,758 | 1,262 |
| 12/21/2013 | TRUE | true | FALSE | 3.18 | 9.21 | 5.76 | 55\% | 35\% | 63\% |  | 1.60 | 6.1 | 6.1 |  |  |  |  |  |  |  |  | 13,332 | 12,836 | 1,285 |  |  |  | 13,295 | 12,758 | 1,285 |
| 12/22/2013 | TRUE | true | FALSE | 3.10 | 8.70 | 5.55 | 56\% | 36\% | 64\% |  | 1.57 | 6.1 | 6.0 |  |  |  |  |  |  |  |  | 13,412 | 12,836 | 1,285 |  |  |  | 13,372 | 12,758 | 1,285 |
| 12/23/2013 | TRUE | true | FALSE | 3.20 | 8.70 | 5.68 | 56\% | 37\% | 65\% |  | 1.53 | 6.1 | 6.0 |  |  |  |  |  |  |  |  | 13,412 | 12,836 | 1,285 |  |  |  | 13,372 | 12,758 | 1,285 |
| 12/24/2013 | TRUE | TRUE | FALSE | 3.20 | 8.80 | 5.40 | 59\% | 36\% | 61\% |  | 1.63 | 6.0 | 5.9 |  |  |  |  |  |  |  |  | 13,412 | 12,836 | 1,285 |  |  |  | 13,372 | 12,758 | 1,285 |
| 12/25/2013 | TRUE | TRUE | FALSE | 3.10 | 7.10 | 4.76 | 65\% | 44\% | 67\% |  | 1.49 | 6.0 | 5.7 |  |  |  |  |  |  |  |  | 13,412 | 12,836 | 1,285 |  |  |  | 13,372 | 12,758 | 1,285 |
| 12/26/2013 | TRUE | true | false | 3.10 | 8.10 | 5.41 | 57\% | 38\% | 67\% |  | 1.50 | 6.0 | 5.6 | 74.00 | 91.00 | 1.23 |  | 3,339 | 4,106 |  | TSS | 13,566 | 9,926 | 1,285 | 3,339 | 4,106 |  | 13,522 | 9,874 | 1,285 |


| Date | $\begin{gathered} \text { Butte } \\ \text { Break? } \end{gathered}$ | $\begin{gathered} \text { CSU } \\ \text { Break? } \end{gathered}$ | Precip? | $\begin{gathered} \text { Min } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ |  | $\begin{gathered} \text { Avg } \\ \text { Influent } \\ \text { How, mgd } \end{gathered}$ | $\underset{\text { Avg }}{\operatorname{Min} \% \text { of }}$ | $\underset{\text { Max }}{\min _{2} \text { of }}$ | $\begin{aligned} & \text { Avg \% of } \\ & \text { max } \end{aligned}$ | $\begin{aligned} & \text { Flow } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | $\begin{aligned} & \text { Diurnal } \\ & \text { Peak } \\ & \text { Factor } \\ & \text { (DPF) } \end{aligned}$ | $\begin{gathered} \text { 30-d Avg } \\ \text { of Avg } \\ \text { Flow, mgd } \end{gathered}$ | 7-d Avg of Avg Flow, mgd | Influent TSS Conc., mg/L | $\begin{gathered} \text { Influent } \\ \text { BoD } \\ \text { Cong., } \\ \mathrm{mg} / \mathrm{L} \end{gathered}$ | $\begin{aligned} & \text { BoD/TSS } \\ & \text { Ratio } \end{aligned}$ | Influent NH3-N Conc., mg/L | Avg linf TSS Load, ppc | Avg Inf BOD Load, ppd | Avg Inf NH3 Load, ppd | $\begin{gathered} \text { Load } \\ \text { Outlier } \\ \text { Type } \end{gathered}$ | $\begin{gathered} \text { 30-d Avg } \\ \text { of TJs } \\ \text { Lood, ppd } \end{gathered}$ | 30-d Avg of BOD Load, ppd | 30-d Avg of NH3-N Load, ppd | non-SN TSS Load, ppd | non-SN BOD Load, ppd | non-SN NH3 Load, ppd | 30-d Avg of non-SN ppd | 30-d Avg of non-SN BOD Load, ppd | $\begin{aligned} & \text { 30-d Avg } \\ & \text { of non-SN } \\ & \text { NH3-N } \\ & \text { Load, ppd } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12/27/2013 | TRUE | TRUE | FALSE | 3.17 | 8.83 | 5.49 | 58\% | 36\% | 62\% |  | 1.61 | 6.0 | 5.5 | 280.00 |  |  | 23.07 | 12,820 |  | 1,056 |  | 13,764 | 9,926 | 1,239 | 12,820 |  | 1,056 | 13,721 | 9,874 | 1,239 |
| 12/28/2013 | TRUE | true | FALSE | 3.19 | 8.31 | 5.35 | 60\% | 38\% | 64\% |  | 1.55 | 6.0 | 5.4 |  |  |  |  |  |  |  |  | 13,764 | 9,926 | 1,262 |  |  |  | 13,721 | 9,874 | 1,262 |
| 12/29/2013 | true | true | FALSE | 3.12 | 8.21 | 5.28 | 59\% | 38\% | 64\% |  | 1.55 | 5.9 | 5.4 |  |  |  |  |  |  |  |  | 13,764 | 9,926 | 1,262 |  |  |  | 13,721 | 9,874 | 1,262 |
| 12/30/2013 | true | true | false | 3.14 | 8.09 | 5.52 | 57\% | 39\% | 68\% |  | 1.47 | 5.9 | 5.4 | 244.00 |  |  |  | 11,233 |  |  |  | 13,569 | 9,926 | 1,262 | 11,233 |  |  | 13,529 | 9,874 | 1,262 |
| 12/31/2013 | true | true | false | 3.16 | 8.41 | 5.58 | 57\% | 38\% | 66\% |  | 1.51 | 5.9 | 5.3 | 317.00 |  |  |  | 14,752 |  |  |  | 13,654 | 9,926 | 1,262 | 14,752 |  |  | 13,617 | 9,874 | 1,262 |
| 1/1/2014 | true | true | false | 3.18 | 7.98 | 5.23 | 61\% | 40\% | 66\% |  | 1.53 | 5.9 | 5.3 |  |  |  |  |  |  |  |  | 13,654 | 9,926 | 1,262 |  |  |  | 13,617 | 9,874 | 1,262 |
| 1/2/2014 | TRUE | true | false | 3.19 | 8.26 | 5.54 | 58\% | 39\% | 67\% |  | 1.49 | 5.9 | 5.4 | 261.00 |  |  | 26.37 | 12,059 |  | 1,218 |  | 13,411 | 9,926 | 1,254 | 12,059 |  | 1,218 | 13,374 | 9,874 | 1,254 |
| 1/3/2014 | true | true | false | 3.20 | 8.08 | 5.57 | 57\% | 40\% | 69\% |  | 1.45 | 5.9 | 5.4 | 221.00 | 272.00 | 1.23 |  | 10,266 | 12,635 |  |  | 13,292 | 9,694 | 1,254 | 10,266 | 12,635 |  | 13,292 | 9,694 | 1,254 |
| 1/4/2014 | true | true | false | 3.07 | 8.51 | 5.53 | 56\% | 36\% | 65\% |  | 1.54 | 5.8 | 5.5 |  |  |  |  |  |  |  |  | 13,292 | 9,694 | 1,254 |  |  |  | 13,292 | 9,694 | 1,254 |
| 1/5/2014 | true | true | false | 3.00 | 8.47 | 5.56 | 54\% | 35\% | 66\% |  | 1.52 | 5.8 | 5.5 |  |  |  |  |  |  |  |  | 13,292 | 9,694 | 1,258 |  |  |  | 13,292 | 9,694 | 1,258 |
| 1/6/2014 | true | true | false | 3.09 | 8.37 | 5.71 | 54\% | 37\% | 68\% |  | 1.47 | 5.8 | 5.5 | 311.00 |  |  |  | 14,810 |  |  |  | 13,124 | 9,694 | 1,258 | 14,810 |  |  | 13,124 | 9,694 | 1,258 |
| 1/7/2014 | true | true | false | 3.11 | 8.27 | 5.71 | 54\% | 38\% | 69\% |  | 1.45 | 5.8 | 5.6 | 360.00 | 442.00 | 1.23 |  | 17,144 | 21,049 |  | BOD | 13,392 | 9,694 | 1,258 | 17,144 | 21,049 |  | 13,392 | 9,694 | 1,258 |
| 1/8/2014 | true | true | false | 3.09 | 8.45 | 5.71 | 54\% | 37\% | 68\% |  | 1.48 | 5.8 | 5.6 |  |  |  |  |  |  |  |  | 13,392 | 9,694 | 1,258 |  |  |  | 13,392 | 9,694 | 1,258 |
| 1/9/2014 | true | true | false | 3.09 | 8.31 | 5.66 | 55\% | 37\% | 68\% |  | 1.47 | 5.7 | 5.6 | 257.00 |  |  | 23.79 | 12,132 |  | 1,123 |  | 13,358 | 9,694 | 1,231 | 12,132 |  | 1,123 | 13,358 | 9,694 | 1,231 |
| 1/10/2014 | true | true | false | 3.05 | 8.70 | 5.70 | 54\% | 35\% | 66\% |  | 1.53 | 5.7 | 5.6 | 258.00 | 290.00 | 1.12 |  | 12,265 | 13,786 |  |  | 13,344 | 10,717 | 1,231 | 12,265 | 13,786 |  | 13,344 | 10,717 | 1,231 |
| 1/11/2014 | true | true | false | 3.12 | 8.55 | 5.57 | 56\% | 36\% | 65\% |  | 1.54 | 5.7 | 5.6 |  |  |  |  |  |  |  |  | 13,344 | 10,717 | 1,231 |  |  |  | 13,344 | 10,717 | 1,231 |
| 1/12/2014 | true | true | false | 3.02 | 8.80 | 5.65 | 53\% | 34\% | 64\% |  | 1.56 | 5.7 | 5.7 |  |  |  |  |  |  |  |  | 13,012 | 10,717 | 1,155 |  |  |  | 13,012 | 10,717 | 1,155 |
| 1/13/2014 | true | true | false | 3.04 | 8.32 | 5.71 | 53\% | 37\% | 69\% |  | 1.46 | 5.7 | 5.7 |  |  |  |  |  |  |  |  | 13,111 | 10,717 | 1,155 |  |  |  | 13,111 | 10,717 | 1,155 |
| 1/14/2014 | TRUE | true | false | 3.14 | 8.48 | 5.68 | 55\% | 37\% | 67\% |  | 1.49 | 5.7 | 5.7 | 281.00 | 319.00 | 1.14 |  | 13,311 | 15,111 |  |  | 13,125 | 11,596 | 1,155 | 13,311 | 15,111 |  | 13,125 | 11,596 | 1,155 |
| 1/15/2014 | true | true | false | 3.11 | 8.37 | 5.69 | 55\% | 37\% | 68\% |  | 1.47 | 5.6 | 5.7 |  |  |  |  |  |  |  |  | 13,125 | 11,596 | 1,155 |  |  |  | 13,125 | 11,596 | 1,155 |
| 1/16/2014 | true | true | false | 3.05 | 8.48 | 5.73 | 53\% | 36\% | 68\% |  | 1.48 | 5.6 | 5.7 | 276.00 |  |  | 21.35 | 13,190 |  | 1,020 |  | 13,036 | 11,596 | 1,128 | 13,190 |  | 1,020 | 13,036 | 11,596 | 1,128 |
| 1/17/2014 | true | true | false | 3.12 | 8.19 | 5.71 | 55\% | 38\% | 70\% |  | 1.43 | 5.6 | 5.7 | 284.00 | 218.00 | 0.77 |  | 13,524 | 10,381 |  |  | 13,129 | 11,394 | 1,128 | 13,524 | 10,381 |  | 13,129 | 11,394 | 1,128 |
| 1/18/2014 | true | true | false | 3.09 | 9.37 | 5.71 | 54\% | 33\% | 61\% |  | 1.64 | 5.6 | 5.7 |  |  |  |  |  |  |  |  | 13,129 | 11,394 | 1,128 |  |  |  | 13,129 | 11,394 | 1,128 |
| 1/19/2014 | true | true | false | 3.05 | 9.48 | 5.60 | 54\% | 32\% | 59\% |  | 1.69 | 5.6 | 5.7 |  |  |  |  |  |  |  |  | 13,162 | 11,204 | 1,128 |  |  |  | 13,162 | 11,204 | 1,128 |
| 1/20/2014 | true | TRUE | false | 3.07 | 9.41 | 5.93 | 52\% | 33\% | 63\% |  | 1.59 | 5.6 | 5.7 |  |  |  |  |  |  |  |  | 13,126 | 11,204 | 1,104 |  |  |  | 13,126 | 11,204 | 1,104 |
| 1/21/2014 | TRUE | FALSE | FALSE | 3.09 | 9.01 | 5.98 | 52\% | 34\% | 66\% |  | 1.51 | 5.6 | 5.8 | 355.00 | 172.00 | 0.48 |  | 17,705 | 8,578 |  |  | 13,478 | 10,766 | 1,104 | 17,291 | 8,441 |  | 13,446 | 10,744 | 1,104 |
| 1/22/2014 | true | false | false | 3.14 | 9.01 | 6.00 | 52\% | 35\% | 67\% |  | 1.50 | 5.6 | 5.8 |  |  |  |  |  |  |  |  | 13,478 | 10,766 | 1,104 |  |  |  | 13,446 | 10,744 | 1,104 |
| 1/23/2014 | true | false | false | 3.13 | 8.86 | 5.99 | 52\% | 35\% | 68\% |  | 1.48 | 5.6 | 5.8 | 293.00 |  |  | 24.36 | 14,637 |  | 1,217 |  | 13,561 | 10,766 | 1,127 | 14,637 |  | 1,217 | 13,531 | 10,744 | 1,127 |
| 1/24/2014 | true | false | false | 3.10 | 8.70 | 5.95 | 52\% | 36\% | 68\% |  | 1.46 | 5.6 | 5.9 | 261.00 | 222.00 | 0.85 |  | 12,952 | 11,016 |  |  | 13,520 | 10,802 | 1,127 | 12,952 | 11,016 |  | 13,492 | 10,783 | 1,127 |
| 1/25/2014 | true | false | false | 3.10 | 9.30 | 5.79 | 54\% | 33\% | 62\% |  | 1.61 | 5.7 | 5.9 |  |  |  |  |  |  |  |  | 13,520 | 10,802 | 1,127 |  |  |  | 13,492 | 10,783 | 1,127 |
| 1/26/2014 | TRUE | FALSE | FALSE | 3.07 | 9.39 | 5.90 | 52\% | 33\% | 63\% |  | 1.59 | 5.7 | 5.9 |  |  |  |  |  |  |  |  | 13,520 | 11,918 | 1,127 |  |  |  | 13,492 | 11,895 | 1,127 |
| 1/27/2014 | TRUE | FALSE | false | 3.14 | 8.98 | 5.98 | 53\% | 35\% | 67\% |  | 1.50 | 5.7 | 5.9 | 248.00 |  |  |  | 12,369 |  |  |  | 13,490 | 11,918 | 1,145 | 12,369 |  |  | 13,462 | 11,895 | 1,145 |
| 1/28/2014 | FALSE | false | false | 3.18 | 8.84 | 5.91 | 54\% | 36\% | 67\% |  | 1.50 | 5.7 | 5.9 | 242.00 | 221.00 | 0.91 |  | 11,928 | 10,893 |  |  | 13,392 | 11,772 | 1,145 | 11,928 | 10,893 |  | 13,366 | 11,752 | 1,145 |
| 1/29/2014 | FALSE | false | TRUE | 3.21 | 8.89 | 6.05 | 53\% | 36\% | 68\% |  | 1.47 | 5.7 | 5.9 |  |  |  |  |  |  |  |  | 13,392 | 11,772 | 1,145 |  |  |  | 13,366 | 11,752 | 1,145 |
| 1/30/2014 | FALSE | false | TRUE | 3.20 | 9.00 | 6.11 | 52\% | 36\% | 68\% |  | 1.47 | 5.7 | 6.0 | 259.00 |  |  | 25.21 | 13,198 |  | 1,285 |  | 13,515 | 11,772 | 1,173 | 13,198 |  | 1,285 | 13,489 | 11,752 | 1,173 |
| 1/31/2014 | FALSE | false | FALSE | 3.20 | 8.95 | 6.14 | 52\% | 36\% | 69\% |  | 1.46 | 5.8 | 6.0 | 222.00 | 229.00 | 1.03 |  | 11,368 | 11,727 |  |  | 13,304 | 11,766 | 1,173 | 11,368 | 11,727 |  | 13,278 | 11,749 | 1,173 |
| 2/1/2014 | FALSE | false | false | 3.09 | 9.74 | 6.03 | 51\% | 32\% | 62\% |  | 1.62 | 5.8 | 6.0 |  |  |  |  |  |  |  |  | 13,304 | 11,766 | 1,173 |  |  |  | 13,278 | 11,749 | 1,173 |
| 2/2/2014 | FALSE | false | false | 3.11 | 10.28 | 5.94 | 52\% | 30\% | 58\% | AvgMax | 1.73 | 5.8 | 6.0 |  |  |  |  |  |  |  |  | 13,387 | 11,766 | 1,161 |  |  |  | 13,359 | 11,749 | 1,161 |
| 2/3/2014 | FALSE | false | false | 3.15 | 9.13 | 6.06 | 52\% | 35\% | 66\% |  | 1.51 | 5.8 | 6.0 | 300.00 |  |  |  | 15,162 |  |  |  | 13,713 | 11,642 | 1,161 | 15,162 |  |  | 13,685 | 11,622 | 1,161 |
| 2/4/2014 | FALSE | false | false | 3.15 | 9.10 | 6.04 | 52\% | 35\% | 66\% |  | 1.51 | 5.8 | 6.0 | 232.00 |  |  |  | 11,687 |  |  |  | 13,586 | 11,642 | 1,161 | 11,687 |  |  | 13,560 | 11,622 | 1,161 |
| 2/5/2014 | FALSE | FALSE | TRUE | 3.20 | 9.55 | 6.13 | 52\% | 34\% | 64\% |  | 1.56 | 5.9 | 6.1 |  |  |  |  |  |  |  |  | 13,586 | 11,642 | 1,161 |  |  |  | 13,560 | 11,622 | 1,161 |
| 2/6/2014 | FALSE | false | TRUE | 3.27 | 9.22 | 6.19 | 53\% | 35\% | 67\% |  | 1.49 | 5.9 | 6.1 | 247.00 |  |  | 25.30 | 12,751 |  | 1,306 |  | 13,458 | 11,642 | 1,190 | 12,751 |  | 1,306 | 13,432 | 11,622 | 1,190 |
| 2/7/2014 | FALSE | FALSE | TRUE | 3.24 | 9.37 | 6.46 | 50\% | 35\% | 69\% |  | 1.45 | 5.9 | 6.2 | 274.00 | 229.00 | 0.84 |  | 14,762 | 12,338 |  |  | 13,309 | 11,729 | 1,190 | 14,762 | 12,338 |  | 13,283 | 11,712 | 1,190 |
| 2/8/2014 | FALSE | false | TRUE | 3.67 | 12.57 | 7.85 | 47\% | 29\% | 62\% |  | 1.60 | 6.0 | 6.4 |  |  |  |  |  |  |  |  | 13,309 | 11,729 | 1,190 |  |  |  | 13,283 | 11,712 | 1,190 |
| 2/9/2014 | FALSE | FALSE | TRUE | 4.32 | 12.48 | 8.38 | 52\% | 35\% | 67\% |  | 1.49 | 6.1 | 6.7 |  |  |  |  |  |  |  |  | 13,387 | 11,729 | 1,207 |  |  |  | 13,360 | 11,712 | 1,207 |
| 2/10/2014 | FALSE | false | TRUE | 6.61 | 14.02 | 9.86 | 67\% | 47\% | 70\% |  | 1.42 | 6.2 | 7.1 | 194.00 |  |  |  | 15,953 |  |  |  | 13,633 | 11,435 | 1,207 | 15,953 |  |  | 13,606 | 11,415 | 1,207 |
| 2/11/2014 | FALSE | FALSE | false | 3.68 | 11.17 | 7.65 | 48\% | 33\% | 68\% |  | 1.46 | 6.3 | 7.3 | 168.00 |  |  |  | 10,719 |  |  |  | 13,451 | 11,435 | 1,207 | 10,719 |  |  | 13,425 | 11,415 | 1,207 |
| 2/12/2014 | FALSE | false | FALSE | 3.49 | 10.39 | 7.05 | 50\% | 34\% | 68\% |  | 1.47 | 6.3 | 7.4 | 225.00 |  |  |  | 13,229 |  |  |  | 13,438 | 11,435 | 1,207 | 13,229 |  |  | 13,414 | 11,415 | 1,207 |
| 2/13/2014 | FALSE | FALSE | false | 3.39 | 10.05 | 6.71 | 51\% | 34\% | 67\% |  | 1.50 | 6.3 | 7.5 |  |  |  | 22.82 |  |  | 1,277 |  | 13,438 | 11,435 | 1,221 |  |  | 1,277 | 13,414 | 11,415 | 1,221 |
| 2/14/2014 | FALSE | false | FALSE | 3.36 | 10.00 | 6.76 | 50\% | 34\% | 68\% |  | 1.48 | 6.4 | 7.6 | 301.00 | 231.00 | 0.77 |  | 16,970 | 13,023 |  |  | 13,653 | 11,137 | 1,221 | 16,970 | 13,023 |  | 13,629 | 11,117 | 1,221 |
| 2/15/2014 | FALSE | FALSE | FALSE | 3.33 | 9.99 | 6.37 | 52\% | 33\% | 64\% |  | 1.57 | 6.4 | 7.6 |  |  |  |  |  |  |  |  | 13,653 | 11,137 | 1,221 |  |  |  | 13,629 | 11,117 | 1,221 |
| 2/16/2014 | FALSE | false | false | 3.32 | 9.98 | 6.36 | 52\% | 33\% | 64\% |  | 1.57 | 6.4 | 7.4 |  |  |  |  |  |  |  |  | 13,682 | 11,137 | 1,271 |  |  |  | 13,656 | 11,117 | 1,271 |
| 2/17/2014 | FALSE | FALSE | FALSE | 3.25 | 9.99 | 6.48 | 50\% | 33\% | 65\% |  | 1.54 | 6.4 | 7.2 |  |  |  |  |  |  |  |  | 13,693 | 11,263 | 1,271 |  |  |  | 13,665 | 11,240 | 1,271 |
| 2/18/2014 | FALSE | false | false | 3.24 | 9.41 | 6.32 | 51\% | 34\% | 67\% |  | 1.49 | 6.5 | 6.7 | 230.00 | 218.00 | 0.95 |  | 12,123 | 11,491 |  |  | 13,595 | 11,295 | 1,271 | 12,123 | 11,491 |  | 13,569 | 11,276 | 1,271 |
| 2/19/2014 | FALSE | FALSE | FALSE | 3.28 | 9.65 | 6.29 | 52\% | 34\% | 65\% |  | 1.53 | 6.5 | 6.5 |  |  |  |  |  |  |  |  | 13,595 | 11,295 | 1,271 |  |  |  | 13,569 | 11,276 | 1,271 |
| 2/20/2014 | FALSE | FALSE | FALSE | 3.16 | 9.39 | 6.25 | 51\% | 34\% | 67\% |  | 1.50 | 6.5 | 6.4 |  |  |  | 24.70 |  |  | 1,287 |  | 13,595 | 11,295 | 1,274 |  |  | 1,287 | 13,569 | 11,276 | 1,274 |
| 2/21/2014 | FALSE | FALSE | FALSE | 3.24 | 9.45 | 6.25 | 52\% | 34\% | 66\% |  | 1.51 | 6.5 | 6.4 | 304.00 |  |  | 19.64 | 15,846 |  | 1,024 |  | 13,478 | 11,748 | 1,233 | 15,846 |  | 1,024 | 13,478 | 11,748 | 1,233 |
| 2/22/2014 | FALSE | FALSE | FALSE | 3.23 | 9.51 | 5.99 | 54\% | 34\% | 63\% |  | 1.59 | 6.5 | 6.3 |  |  |  |  |  |  |  |  | 13,478 | 11,748 | 1,233 |  |  |  | 13,478 | 11,748 | 1,233 |
| 2/23/2014 | FALSE | FALSE | FALSE | 3.20 | 9.40 | 5.94 | 54\% | 34\% | 63\% |  | 1.58 | 6.5 | 6.2 |  |  |  |  |  |  |  |  | 13,401 | 11,748 | 1,236 |  |  |  | 13,401 | 11,748 | 1,236 |
| 2/24/2014 | FALSE | FALSE | FALSE | 3.20 | 9.20 | 6.09 | 53\% | 35\% | 66\% |  | 1.51 | 6.5 | 6.2 | 228.00 |  |  |  | 11,580 |  |  |  | 13,310 | 11,894 | 1,236 | 11,580 |  |  | 13,310 | 11,894 | 1,236 |
| 2/25/2014 | FALSE | FALSE | FALSE | 3.20 | 9.30 | 6.10 | 52\% | 34\% | 66\% |  | 1.52 | 6.5 | 6.2 | 277.00 | 282.00 | 1.02 |  | 14,092 | 14,346 |  |  | 13,359 | 12,303 | 1,236 | 14,092 | 14,346 |  | 13,359 | 12,303 | 1,236 |
| 2/26/2014 | FALSE | false | TRUE | 3.20 | 10.00 | 6.31 | 51\% | 32\% | 63\% |  | 1.58 | 6.5 | 6.2 |  |  |  |  |  |  |  |  | 13,359 | 12,303 | 1,236 |  |  |  | 13,359 | 12,303 | 1,236 |
| 2/27/2014 | FALSE | FALSE | true | 3.50 | 9.90 | 6.83 | 51\% | 35\% | 69\% |  | 1.45 | 6.6 | 6.2 | 272.00 |  |  | 19.25 | 15,494 |  | 1,097 |  | 13,554 | 12,303 | 1,213 | 15,494 |  | 1,097 | 13,554 | 12,303 | 1,213 |


| Date | $\begin{aligned} & \text { Butte } \\ & \text { Break? } \end{aligned}$ | $\underset{\text { Break? }}{\text { csu }}$ | Precip? | $\underset{\substack{\text { Min } \\ \text { Influent } \\ \text { Flow, mgd }}}{ }$ | $\max _{\substack{\text { Influent } \\ \text { Alow, mgd }}}^{\text {Fid }}$ | $\begin{gathered} \text { Avg } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | $\underset{\text { Min } \% \text { of }}{\substack{\text { Avg }}}$ | $\underset{\operatorname{Max}}{\min _{\mathrm{Max}}}$ | $\begin{aligned} & \text { Avg \% of } \\ & \text { max } \end{aligned}$ | $\begin{aligned} & \text { Flow } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | Diurnal Peak Factor (DPF) | $\begin{aligned} & 30-\mathrm{d} \text { Avg } \\ & \text { of Avg } \\ & \text { Filow, mgd } \end{aligned}$ | 7-d Avg of Avg Flow, mgd | Influent TsS Conc., ms/L | Influent BOD Conc. mg/L | Bod/Tss | Influent NH3-N Conc., mg/L | Avg linf TSS Load, ppd | Avg Inf BOD Load, ppd | Avg Inf NH3 Load, ppd | $\begin{aligned} & \text { Load } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | $\begin{gathered} \text { 30-d Avg } \\ \text { of TSS } \\ \text { Load, ppd } \end{gathered}$ | 30-d Avg of BOD Load, ppd | 30-d Avg of NH3-N Load, ppd | non-SN TSS Load ppd | non-SN BOD Load, ppd | non-SN NH3 Load, ppd | 30-d Avg of non-SN TSS Load, ppd | 30-d Avg of non-SN BOD Load, ppd | $\begin{aligned} & \text { 30-d Avg } \\ & \text { of non-sN } \\ & \text { NH3 } \\ & \text { Load, ppd } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2/28/2014 | FALSE | FALSE | TRUE | 3.45 | 10.18 | 7.12 | 48\% | 34\% | 70\% |  | 1.43 | 6.6 | 6.3 | 232.00 | 243.00 | 1.05 |  | 13,776 | 14,430 |  |  | 13,669 | 12,892 | 1,213 | 13,776 | 14,430 |  | 13,669 | 12,892 | 1,213 |
| 3/1/2014 | FALSE | FALSE | TRUE | 3.84 | 11.34 | 7.57 | 51\% | 34\% | 67\% |  | 1.50 | 6.7 | 6.5 |  |  |  |  |  |  |  |  | 13,669 | 12,892 | 1,213 |  |  |  | 13,669 | 12,892 | 1,213 |
| 3/2/2014 | FALSE | false | TRUE | 3.57 | 10.86 | 6.98 | 51\% | 33\% | 64\% |  | 1.56 | 6.7 | 6.6 |  |  |  |  |  |  |  |  | 13,701 | 12,892 | 1,198 |  |  |  | 13,701 | 12,892 | 1,198 |
| 3/3/2014 | FALSE | false | TRUE | 3.46 | 12.84 | 7.73 | 45\% | 27\% | 60\% |  | 1.66 | 6.7 | 6.8 | 21.00 |  |  |  | 13,925 |  |  |  | 13,871 | 13,126 | 1,198 | 13,925 |  |  | 13,871 | 13,126 | 1,198 |
| 3/4/2014 | FALSE | false | true | 5.69 | 12.66 | 9.29 | 61\% | 45\% | 73\% |  | 1.36 | 6.8 | 7.2 |  |  |  |  |  |  |  |  | 13,871 | 13,126 | 1,198 |  |  |  | 13,871 | 13,126 | 1,198 |
| 3/5/2014 | FALSE | FALSE | TRUE | 4.10 | 11.72 | 8.28 | 50\% | 35\% | 71\% |  | 1.42 | 6.9 | 7.5 | 192.00 | 139.00 | 0.72 |  | 13,259 | 9,599 |  |  | 13,833 | 12,538 | 1,198 | 13,259 | 9,599 |  | 13,833 | 12,538 | 1,198 |
| 3/6/2014 | FALSE | false | TrUE | 4.81 | 12.20 | 8.68 | 55\% | 39\% | 71\% |  | 1.41 | 7.0 | 7.8 |  |  |  |  |  |  |  |  | 13,744 | 12,538 | 1,198 |  |  |  | 13,744 | 12,538 | 1,198 |
| 3/7/2014 | FALSE | FALSE | FALSE | 3.90 | 11.11 | 7.81 | 50\% | 35\% | 70\% |  | 1.42 | 7.0 | 7.9 | 195.00 |  |  | 16.03 | 12,701 |  | 1,044 |  | 13,812 | 12,538 | 1,173 | 12,701 |  | 1,044 | 13,812 | 12,538 | 1,173 |
| 3/8/2014 | False | false | false | 3.71 | 10.93 | 7.24 | 51\% | 34\% | 66\% |  | 1.51 | 7.1 | 7.9 |  |  |  |  |  |  |  |  | 13,812 | 12,538 | 1,173 |  |  |  | 13,812 | 12,538 | 1,173 |
| 3/9/2014 | FALSE | FALSE | True | 3.51 | 10.81 | 7.06 | 50\% | 32\% | 65\% |  | 1.53 | 7.1 | 7.9 |  |  |  |  |  |  |  |  | 13,888 | 12,538 | 1,146 |  |  |  | 13,888 | 12,538 | 1,146 |
| 3/10/2014 | FALSE | false | true | 4.06 | 12.74 | 8.94 | 45\% | 32\% | 70\% |  | 1.43 | 7.2 | 8.1 | 209.00 |  |  |  | 15,583 |  |  |  | 13,946 | 12,578 | 1,146 | 15,583 |  |  | 13,946 | 12,578 | 1,146 |
| 3/11/2014 | FALSE | FALSE | false | 4.09 | 11.83 | 8.06 | 51\% | 35\% | 68\% |  | 1.47 | 7.2 | 8.2 | 237.00 | 165.00 | 0.70 |  | 15,931 | 11,091 |  |  | 14,079 | 12,330 | 1,146 | 15,931 | 11,091 |  | 14,079 | 12,330 | 1,146 |
| 3/12/2014 | FALSE | false | false | 3.74 | 10.72 | 7.52 | 50\% | 35\% | 70\% |  | 1.43 | 7.2 | 7.9 |  |  |  |  |  |  |  |  | 14,079 | 12,330 | 1,146 |  |  |  | 14,079 | 12,330 | 1,146 |
| 3/13/2014 | FALSE | FALSE | false | 3.53 | 10.43 | 7.18 | 49\% | 34\% | 69\% |  | 1.45 | 7.1 | 7.8 | 192.00 |  |  | 15.97 | 11,497 |  | 956 |  | 13,782 | 12,330 | 1,114 | 11,497 |  | 956 | 13,782 | 12,330 | 1,114 |
| 3/14/2014 | true | true | false | 3.57 | 9.77 | 6.82 | 52\% | 37\% | 70\% |  | 1.43 | 7.0 | 7.6 | 220.00 | 177.00 | 0.80 |  | 12,513 | 10,068 |  |  | 13,901 | 12,007 | 1,114 | 12,513 | 10,068 |  | 13,901 | 12,007 | 1,114 |
| 3/15/2014 | true | true | false | 3.38 | 9.48 | 6.21 | 54\% | 36\% | 66\% |  | 1.53 | 7.0 | 7.4 |  |  |  |  |  |  |  |  | 13,949 | 12,007 | 1,114 |  |  |  | 13,949 | 12,007 | 1,114 |
| 3/16/2014 | true | true | false | 3.36 | 9.09 | 5.93 | 57\% | 37\% | 65\% |  | 1.53 | 7.0 | 7.2 |  |  |  |  |  |  |  |  | 13,949 | 12,007 | 1,082 |  |  |  | 13,949 | 12,007 | 1,082 |
| 3/17/2014 | true | true | false |  | 9.19 | 6.04 |  |  | 66\% | inAvgMinM | 1.52 | 7.0 | 7.2 | 245.00 |  |  | 19.91 | 12,342 |  | 1,003 |  | 13,619 | 11,837 | 1,069 | 12,342 |  | 1,003 | 13,619 | 11,837 | 1,069 |
| 3/18/2014 | true | true | false | 3.29 | 8.55 | 5.86 | 56\% | 38\% | 69\% |  | 1.46 | 7.0 | 6.8 | 222.00 | 196.00 | 0.88 |  | 10,850 | 9,579 |  |  | 13,434 | 11,515 | 1,069 | 10,850 | 9,579 |  | 13,434 | 11,515 | 1,069 |
| 3/19/2014 | true | true | false | 3.34 | 8.33 | 5.78 | 58\% | 40\% | 69\% |  | 1.44 | 7.0 | 6.5 |  |  |  |  |  |  |  |  | 13,434 | 11,515 | 1,069 |  |  |  | 13,434 | 11,515 | 1,069 |
| 3/20/2014 | true | true | false | 3.32 | 8.23 | 5.74 | 58\% | 40\% | 70\% |  | 1.43 | 6.9 | 6.2 | 243.00 |  |  |  | 11,633 |  |  |  | 13,322 | 11,515 | 1,069 | 11,633 |  |  | 13,322 | 11,515 | 1,069 |
| 3/21/2014 | true | true | false | 3.30 | 8.56 | 5.75 | 57\% | 39\% | 67\% |  | 1.49 | 6.9 | 6.0 | 237.00 |  |  |  | 11,365 |  |  |  | 13,274 | 11,519 | 1,069 | 11,365 |  |  | 13,274 | 11,519 | 1,069 |
| 3/22/2014 | true | true | false | 3.24 | 8.76 | 5.64 | 57\% | 37\% | 64\% |  | 1.55 | 6.9 | 5.8 |  |  |  |  |  |  |  |  | 13,274 | 11,519 | 1,069 |  |  |  | 13,274 | 11,519 | 1,069 |
| 3/23/2014 | TRUE | true | false | 3.20 | 9.02 | 5.81 | 55\% | 35\% | 64\% |  | 1.55 | 6.9 | 5.8 |  |  |  |  |  |  |  |  | 13,274 | 11,519 | 1,025 |  |  |  | 13,274 | 11,519 | 1,025 |
| 3/24/2014 | true | true | false | 3.28 | 9.31 | 6.13 | 54\% | 35\% | 66\% |  | 1.52 | 6.9 | 5.8 | 204.00 |  |  |  | 10,429 |  |  |  | 12,936 | 11,519 | 1,025 | 10,429 |  |  | 12,936 | 11,519 | 1,025 |
| 3/25/2014 | TRUE | false | TRUE | 3.28 | 9.41 | 6.40 | 51\% | 35\% | 68\% |  | 1.47 | 6.9 | 5.9 | 262.00 | 217.00 | 0.83 | 24.81 | 13,985 | 11,583 | 1,324 |  | 12,997 | 11,528 | 1,085 | 13,985 | 11,583 | 1,324 | 12,997 | 11,528 | 1,085 |
| 3/26/2014 | FALSE | FALSE | true | 3.37 | 9.70 | 6.75 | 50\% | 35\% | 70\% |  | 1.44 | 6.9 | 6.0 |  |  |  |  |  |  |  |  | 12,997 | 11,528 | 1,085 |  |  |  | 12,997 | 11,528 | 1,085 |
| 3/27/2014 | FALSE | FALSE | FALSE | 3.46 | 9.89 | 6.84 | 51\% | 35\% | 69\% |  | 1.45 | 6.9 | 6.1 | 257.00 |  |  |  | 14,661 |  |  |  | 13,179 | 11,528 | 1,085 | 14,661 |  |  | 13,179 | 11,528 | 1,085 |
| 3/28/2014 | FALSE | FALSE | true | 3.43 | 9.58 | 6.72 | 51\% | 36\% | 70\% |  | 1.43 | 7.0 | 6.3 | 223.00 | 205.00 | 0.92 |  | 12,498 | 11,489 |  |  | 13,085 | 11,120 | 1,085 | 12,498 | 11,489 |  | 13,085 | 11,120 | 1,085 |
| 3/29/2014 | ${ }_{\text {FALSE }}$ | FALSE | TRUE | 3.44 | 11.29 | 7.18 7.94 | 48\% | 30\% | 64\% |  | 1.57 | 7.0 | 6.4 |  |  |  |  |  |  |  |  | 13,085 | 11,120 | 1,085 |  |  |  | 13,085 | 11,120 | 1,085 |
| 3/30/2014 | FALSE | false | true | 4.11 | 11.73 | 7.94 | 52\% | 35\% | 68\% |  | 1.48 | 7.0 | 6.7 |  |  |  |  |  |  |  |  | 12,934 | 11,120 | 1,082 |  |  |  | 12,934 | 11,120 | 1,082 |
| 3/31/2014 | FALSE | FALSE | TRUE | 3.67 | 10.53 | 7.68 | 48\% | 35\% | 73\% |  | 1.37 | 7.1 | 7.0 | 223.00 |  |  |  | 14,283 |  |  |  | 12,966 | 10,568 | 1,082 | 14,283 |  |  | 12,966 | 10,568 | 1,082 |
| 4/1/2014 | FALSE | false | true | 3.58 | 10.62 | 7.62 | 47\% | 34\% | 72\% |  | 1.39 | 7.1 | 7.1 | 209.00 | 182.00 | 0.87 |  | 13,282 | 11,566 |  |  | 12,985 | 10,711 | 1,082 | 13,282 | 11,566 |  | 12,985 | 10,711 | 1,082 |
| 4/2/2014 | FALSE | FALSE | FALSE | 3.64 | 11.04 | 7.37 | 49\% | 33\% | 67\% |  | 1.50 | 7.1 | 7.3 |  |  |  |  |  |  |  |  | 12,985 | 10,711 | 1,082 |  |  |  | 12,985 | 10,711 | 1,082 |
| 4/3/2014 | FALSE | FALSE | false | 3.51 | 10.38 | 7.19 | 49\% | 34\% | 69\% |  | 1.44 | 7.0 | 7.3 | 92.00 |  |  | 23.33 | 5,517 |  | 1,399 |  | 12,490 | 10,711 | 1,145 | 5,517 |  | 1,399 | 12,490 | 10,711 | 1,145 |
| 4/4/2014 | FALSE | FALSE | TrUE | 3.54 | 9.89 | 6.94 | 51\% | 36\% | 70\% |  | 1.43 | 7.0 | 7.3 | 219.00 | 176.00 | 0.80 |  | 12,676 | 10,187 |  |  | 12,500 | 10,645 | 1,145 | 12,676 | 10,187 |  | 12,500 | 10,645 | 1,145 |
| 4/5/2014 | FALSE | FALSE | false | 3.42 | 10.25 | 6.64 | 52\% | 33\% | 65\% |  | 1.54 | 6.9 | 7.3 |  |  |  |  |  |  |  |  | 12,456 | 10,795 | 1,145 |  |  |  | 12,456 | 10,795 | 1,145 |
| 4/6/2014 | FALSE | FALSE | false | 3.37 | 10.21 | 6.55 | 51\% | 33\% | 64\% |  | 1.56 | 6.8 | 7.2 |  |  |  |  |  |  |  |  | 12,456 | 10,795 | 1,145 |  |  |  | 12,456 | 10,795 | 1,145 |
| 4/7/2014 | FALSE | FALSE | false | 3.39 | 9.59 | 6.47 | 52\% | 35\% | 67\% |  | 1.48 | 6.8 | 7.1 | 214.00 |  |  |  | 11,547 |  |  |  | 12,388 | 10,795 | 1,171 | 11,547 |  |  | 12,388 | 10,795 | 1,171 |
| 4/8/2014 | FALSE | FALSE | false | 3.38 | 9.48 | 6.35 | 53\% | 36\% | 67\% |  | 1.49 | 6.8 | 6.9 | 191.00 | 193.00 | 1.01 |  | 10,115 | 10,221 |  |  | 12,262 | 10,723 | 1,171 | 10,115 | 10,221 |  | 12,262 | 10,723 | 1,171 |
| 4/9/2014 | FALSE | FALSE | FALSE | 3.36 | 9.63 | 6.30 | 53\% | 35\% | 65\% |  | 1.53 | 6.7 | 6.7 |  |  |  |  |  |  |  |  | 12,262 | 10,723 | 1,171 |  |  |  | 12,262 | 10,723 | 1,171 |
| 4/10/2014 | FALSE | FALSE | false | 3.40 | 9.40 | 6.33 | 54\% | 36\% | 67\% |  | 1.48 | 6.7 | 6.6 | 196.00 |  |  | 21.81 | 10,347 |  | 1,151 |  | 11,971 | 10,723 | 1,167 | 10,347 |  | 1,151 | 11,971 | 10,723 | 1,167 |
| 4/11/2014 | FALSE | FALSE | FALSE | 3.38 | 9.26 | 6.31 | 54\% | 37\% | 68\% |  | 1.47 | 6.6 | 6.5 | 189.00 | 188.00 | 0.99 |  | 9,946 | 9,894 |  |  | 11,638 | 10,573 | 1,167 | 9,946 | 9,894 |  | 11,638 | 10,573 | 1,167 |
| 4/12/2014 | FALSE | FALSE | false | 3.34 | 9.40 | 6.12 | 55\% | 36\% | 65\% |  | 1.54 | 6.6 | 6.4 |  |  |  |  |  |  |  |  | 11,638 | 10,573 | 1,167 |  |  |  | 11,638 | 10,573 | 1,167 |
| 4/13/2014 | FALSE | FALSE | false | 3.30 | 9.59 | 6.09 | 54\% | 34\% | 64\% |  | 1.57 | 6.5 | 6.3 |  |  |  |  |  |  |  |  | 11,646 | 10,573 | 1,219 |  |  |  | 11,646 | 10,573 | 1,219 |
| 4/14/2014 | FALSE | FALSE | false | 3.35 | 9.27 | 6.18 | 54\% | 36\% | 67\% |  | 1.50 | 6.5 | 6.3 | 202.00 |  |  |  | 10,411 |  |  |  | 11,523 | 10,645 | 1,219 | 10,411 |  |  | 11,523 | 10,645 | 1,219 |
| 4/15/2014 | FALSE | FALSE | false | 3.30 | 9.13 | 6.07 | 54\% | 36\% | 66\% |  | 1.50 | 6.5 | 6.2 | 232.00 |  |  |  | 11,745 |  |  |  | 11,535 | 10,645 | 1,219 | 11,745 |  |  | 11,535 | 10,645 | 1,219 |
| 4/16/2014 | ${ }_{\text {FALSE }}$ | ${ }_{\text {FALSE }}$ | FALSE | 3.31 3.33 | 9.22 | 6.13 | 54\% | 36\% | 66\% |  | 1.50 | 6.5 | 6.2 |  |  |  |  |  |  |  |  | 11,535 | 10,645 | 1,219 |  |  |  | 11,535 | 10,645 | 1,219 |
| 4/17/2014 | FALSE | FALSE | FALSE | 3.33 | 9.16 | 6.21 | 54\% | 36\% | 68\% |  | 1.48 | 6.5 | 6.2 | 325.00 |  |  | 22.43 | 16,832 |  | 1,162 |  | 11,785 | 10,645 | 1,259 | 16,832 |  | 1,162 | 11,785 | 10,645 | 1,259 |
| 4/18/2014 | FALSE | FALSE | FALSE | 3.28 | 9.52 | 6.12 | 54\% | 34\% | 64\% |  | 1.56 | 6.5 | 6.2 | 302.00 | 252.00 | 0.83 |  | 15,414 | 12,862 |  |  | 12,038 | 11,115 | 1,259 | 15,414 | 12,862 |  | 12,038 | 11,115 | 1,259 |
| 4/19/2014 | FALSE | FALSE | FALSE | 3.27 | 9.43 | 5.81 | 56\% | 35\% | 62\% |  | 1.62 | 6.5 | 6.1 |  |  |  |  |  |  |  |  | 12,038 | 11,115 | 1,259 |  |  |  | 12,038 | 11,115 | 1,259 |
| 4/20/2014 | ${ }_{\text {FALSE }}$ | ${ }_{\text {FALSE }}$ | FALSE | 3.26 <br> 3.31 | 9.12 | 5.56 | 59\% | 36\% | ${ }_{61 \%}$ |  | 1.64 | 6.5 | 6.0 |  |  |  |  |  |  |  |  | 12,062 | 11,115 | 1,259 |  |  |  | 12,062 | 11,115 | 1,259 |
| 4/21/2014 | FALSE | FALSE | false | 3.31 | 9.17 | 6.16 | 54\% | 36\% | 67\% |  | 1.49 | 6.5 | 6.0 | 256.00 |  |  |  | 13,152 |  |  |  | 12,167 | 11,115 | 1,259 | 13,152 |  |  | 12,167 | 11,115 | 1,259 |
| 4/22/2014 | ${ }_{\text {FALSE }}$ | ${ }_{\text {FALSE }}$ | FALSE | 3.20 <br> 3.23 | 9.28 | 6.07 | 53\% | 34\% | 65\% |  | 1.53 | 6.5 | 6.0 | 276.00 | 242.00 | 0.88 | 24.00 | 13,972 | 12,251 | 1,215 |  | 12,267 | 11,257 | 1,250 | 13,972 | 12,251 | 1,215 | 12,267 | 11,257 11257 | 1,250 |
| 4/23/2014 | FALSE | FALSE | false | 3.23 | 9.35 | 6.13 | 53\% | 35\% | 66\% |  | 1.53 | 6.5 | 6.0 |  |  |  |  |  |  |  |  | 12,267 | 11,257 | 1,250 |  |  |  | 12,267 | 11,257 | 1,250 |
| 4/24/2014 | ${ }_{\text {FALSE }}$ | ${ }_{\text {FALSE }}$ | ${ }_{\text {FALSE }}$ | 3.23 3 | 9.26 | 6.13 | 53\% | 35\% | ${ }^{66 \%}$ |  | 1.51 | 6.5 | 6.0 | 254.00 |  |  |  | 12,986 |  |  |  | 12,409 | 11,257 | 1,250 | 12,986 |  |  | 12,409 | 11,257 | 1,250 |
| 4/25/2014 | FALSE | FALSE | true | 3.26 | 9.94 | 6.58 | 50\% | 33\% | 66\% |  | 1.51 | 6.5 | 6.1 | 245.00 | 213.00 | 0.87 |  | 13,445 | 11,689 |  |  | 12,379 | 11,270 | 1,232 | 13,445 | 11,689 |  | 12,379 | 11,270 | 1,232 |
| 4/26/2014 | FALSE | ${ }_{\text {FALSE }}$ | FALSE | 3.29 3 3 | 9.87 | 6.30 | 52\% | 33\% | ${ }^{64 \%}$ |  | 1.57 | 6.5 | 6.1 |  |  |  |  |  |  |  |  | 12,379 | 11,270 | 1,232 |  |  |  | 12,379 | 11,270 | 1,232 |
| 4/27/2014 | FALSE | FALSE | FALSE | 3.22 | 9.82 | 6.18 | 52\% | 33\% | 63\% |  | 1.59 | 6.5 | 6.1 |  |  |  |  |  |  |  |  | 12,245 | 11,270 | 1,232 |  |  |  | 12,245 | 11,270 | 1,232 |
| 4/28/2014 | FALSE | FALSE | FALSE | 3.25 | 9.31 | 6.19 | 53\% | 35\% | 66\% |  | 1.50 | 6.5 | 6.2 | 234.00 |  |  |  | 12,080 |  |  |  | 12,221 | 11,239 | 1,232 | 12,080 |  |  | 12,221 | 11,239 | 1,232 |
| 4/29/2014 | FALSE | FALSE | FALSE | 3.26 3.9 | 9.23 | ${ }_{6}^{6.16}$ | 53\% | 35\% | ${ }^{67 \%}$ |  | 1.50 | 6.4 | 6.2 | 224.00 | 211.00 | 0.94 |  | 11,508 | 10,840 |  |  | 12,181 | 11,189 | 1,232 | 11,508 | 10,840 |  | 12,181 | 11,189 | 1,232 |
| 4/30/2014 | FALSE | FALSE | FALSE | 3.19 | 9.35 | 6.13 | 52\% | 34\% | 66\% |  | 1.53 | 6.4 | 6.2 |  |  |  |  |  |  |  |  | 12,181 12,194 | 11,189 | 1,232 1,240 |  |  |  | 12,181 | 11,189 11,189 | 1,232 1,240 |
| 5/1/2014 | FALSE | false | false | 3.28 | 9.15 | 6.04 | 54\% | 36\% | 66\% |  | 1.51 | 6.3 | 6.2 | 288.00 |  |  | 25.27 | 14,508 |  | 1,273 |  | 12,194 | 11,189 | 1,240 | 14,508 |  | 1,273 | 12,194 | 11,189 | 1,240 |


| Date | $\begin{aligned} & \text { Butte } \\ & \text { Break? } \end{aligned}$ | $\underset{\text { Break? }}{\text { csu }}$ | Precip? | $\min _{\substack{\text { Influent } \\ \text { Flow, mgd }}}$ |  | Avg Flow, mgd | $\underset{\text { Avg }}{\operatorname{Min} \% \text { of }}$ | Min \% of Max | $\begin{aligned} & \text { Avg \% of } \\ & \text { Max } \end{aligned}$ | Flow Outlier Type | $\begin{aligned} & \text { Diurnal } \\ & \text { Peeak } \\ & \text { Pactor } \\ & \text { (DPFF) } \end{aligned}$ | 30-d Avg Flow, mgd | 7-d Avg of Avg Flow, mgd | Influent TSS Conc., mg/L | $\begin{gathered} \text { Influent } \\ \text { BoD } \\ \text { Conc., } \\ \mathrm{mg} / \mathrm{L} \end{gathered}$ | BOD/TSS Ratio | Influent NH3-N Conc., mg/L | Avg $\operatorname{lnf}$ TSS Load, ppd | Avg Inf BOD Load, ppd | Avg Inf NH3 Load, ppd | $\begin{gathered} \text { Load } \\ \text { Outlier } \\ \text { Type } \end{gathered}$ | 30-d Avg of TSS Load, ppd | 30-d Avg of BOD Load, ppd | 30-d Avg of NH3-N Load, ppd | non-SN ppd | non-SN ppd | non-SN NH3 Load, ppd | $\begin{gathered} \text { 30-d Avg } \\ \text { of non-SN } \\ \text { TSS Load, } \\ \text { ppd } \end{gathered}$ | $\begin{gathered} \text { 30-d Avg } \\ \text { of non-SN } \\ \text { BOD Load, } \\ \text { ppd } \end{gathered}$ | $\begin{aligned} & \text { 30-d Avg } \\ & \text { of non-SN } \\ & \text { NH3-N } \\ & \text { Load, ppd } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5/2/2014 | FALSE | FALSE | FALSE | 3.30 | 9.22 | 6.04 | 55\% | 36\% | 66\% |  | 1.53 | 6.3 | 6.2 | 269.00 | 213.00 | 0.79 |  | 13,550 | 10,730 |  |  | 12,208 | 11,084 | 1,240 | 13,550 | 10,730 |  | 12,208 | 11,084 | 1,240 |
| 5/3/2014 | FALSE | FALSE | FALSE | 3.29 | 9.27 | 6.03 | 55\% | 35\% | 65\% |  | 1.54 | 6.2 | 6.1 |  |  |  |  |  |  |  |  | 12,208 | 11,084 | 1,240 |  |  |  | 12,208 | 11,084 | 1,240 |
| 5/4/2014 | false | false | false | 3.38 | 9.63 | 6.15 | 55\% | 35\% | 64\% |  | 1.57 | 6.2 | 6.1 |  |  |  |  |  |  |  |  | 12,602 | 11,084 | 1,200 |  |  |  | 12,602 | 11,084 | 1,200 |
| 5/5/2014 | FALSE | FALSE | FALSE | 3.58 | 9.32 | 6.36 | 56\% | 38\% | 68\% |  | 1.47 | 6.2 | 6.1 | 170.00 |  |  |  | 9,017 |  |  |  | 12,387 | 11,212 | 1,200 | 9,017 |  |  | 12,387 | 11,212 | 1,200 |
| 5/6/2014 | false | false | false | 3.61 | 9.28 | 6.21 | 58\% | 39\% | 67\% |  | 1.49 | 6.2 | 6.1 | 57.00 | 27.00 | 0.47 |  | 29,521 | 13,984 |  | TSS | 12,387 | 11,559 | 1,200 | 29,521 | 13,984 |  | 12,387 | 11,559 | 1,200 |
| 5/7/2014 | FALSE | FALSE | FALSE | 3.50 | 9.38 | 6.21 | 56\% | 37\% | 66\% |  | 1.51 | 6.2 | 6.1 |  |  |  |  |  |  |  |  | 12,387 | 11,559 | 1,200 |  |  |  | 12,387 | 11,559 | 1,200 |
| 5/8/2014 | FALSE | false | false | 3.57 | 9.36 | 6.31 | 57\% | 38\% | 67\% |  | 1.48 | 6.2 | 6.2 | 236.00 |  |  | 24.95 | 12,420 |  | 1,313 |  | 12,438 | 11,559 | 1,223 | 12,420 |  | 1,313 | 12,438 | 11,559 | 1,223 |
| 5/9/2014 | false | false | false | 3.56 | 9.07 | 6.25 | 57\% | 39\% | 69\% |  | 1.45 | 6.2 | 6.2 | 272.00 | 212.00 | 0.78 |  | 14,178 | 11,051 |  |  | 12,677 | 11,662 | 1,223 | 14,178 | 11,051 |  | 12,677 | 11,662 | 1,223 |
| 5/10/2014 | FALSE | false | false | 3.52 | 9.51 | 6.04 | 58\% | 37\% | 64\% |  | 1.57 | 6.1 | 6.2 |  |  |  |  |  |  |  |  | 12,677 | 11,662 | 1,223 |  |  |  | 12,677 | 11,662 | 1,223 |
| 5/11/2014 | false | false | false | 3.48 | 9.47 | 5.94 | 59\% | 37\% | 63\% |  | 1.59 | 6.1 | 6.2 |  |  |  |  |  |  |  |  | 12,823 | 11,662 | 1,241 |  |  |  | 12,823 | 11,662 | 1,241 |
| 5/12/2014 | FALSE | false | false | 3.60 | 9.19 | 6.14 | 59\% | 39\% | 67\% |  | 1.50 | 6.1 | 6.2 | 257.00 |  |  |  | 13,160 |  |  |  | 13,024 | 11,915 | 1,241 | 13,160 |  |  | 13,024 | 11,915 | 1,241 |
| 5/13/2014 | false | false | false | 3.51 | 8.91 | 6.12 | 57\% | 39\% | 69\% |  | 1.46 | 6.1 | 6.2 | 301.00 | 176.00 | 0.58 |  | 15,363 | 8,983 |  |  | 13,161 | 11,549 | 1,241 | 15,363 | 8,983 |  | 13,161 | 11,549 | 1,241 |
| 5/14/2014 | FALSE | false | false | 3.56 | 9.14 | 6.17 | 58\% | 39\% | 68\% |  | 1.48 | 6.1 | 6.1 |  |  |  |  |  |  |  |  | 13,161 | 11,549 | 1,241 |  |  |  | 13,161 | 11,549 | 1,241 |
| 5/15/2014 | FALSE | false | false | 3.59 | 9.39 | 6.18 | 58\% | 38\% | 66\% |  | 1.52 | 6.1 | 6.1 | 296.00 | 184.00 | 0.62 |  | 15,256 | 9,484 |  |  | 13,446 | 11,319 | 1,241 | 15,256 | 9,484 |  | 13,446 | 11,319 | 1,241 |
| 5/16/2014 | false | false | false | 3.64 | 9.17 | 6.22 | 59\% | 40\% | 68\% |  | 1.47 | 6.1 | 6.1 | 246.00 |  |  | 25.16 | 12,761 |  | 1,305 |  | 13,506 | 11,319 | 1,254 | 12,761 |  | 1,305 | 13,506 | 11,319 | 1,254 |
| 5/17/2014 | false | false | false | 3.61 | 8.82 | 6.01 | 60\% | 41\% | 68\% |  | 1.47 | 6.1 | 6.1 |  |  |  |  |  |  |  |  | 13,506 | 11,319 | 1,254 |  |  |  | 13,506 | 11,319 | 1,254 |
| 5/18/2014 | false | true | FALSE | 3.49 | 8.88 | 5.93 | 59\% | 39\% | 67\% |  | 1.50 | 6.1 | 6.1 |  |  |  |  |  |  |  |  | 13,298 | 11,319 | 1,277 |  |  |  | 13,298 | 11,319 | 1,277 |
| 5/19/2014 | FALSE | true | true | 3.55 | 8.52 | 6.04 | 59\% | 42\% | 71\% |  | 1.41 | 6.1 | 6.1 | 195.00 |  |  |  | 9,823 |  |  |  | 12,949 | 11,126 | 1,277 | 9,823 |  |  | 12,949 | 11,126 | 1,277 |
| 5/20/2014 | FALSE | true | TRUE | 3.56 | 8.46 | 5.97 | 60\% | 42\% | 71\% |  | 1.42 | 6.1 | 6.1 | 152.00 |  |  |  | 7,568 |  |  |  | 12,632 | 11,126 | 1,277 | 7,568 |  |  | 12,632 | 11,126 | 1,277 |
| 5/21/2014 | FALSE | true | false | 3.59 | 8.57 | 6.04 | 59\% | 42\% | 70\% |  | 1.42 | 6.1 | 6.1 |  |  |  |  |  |  |  |  | 12,632 | 11,126 | 1,277 |  |  |  | 12,632 | 11,126 | 1,277 |
| 5/22/2014 | FALSE | true | false | 3.57 | 8.41 | 5.98 | 60\% | 42\% | 71\% |  | 1.41 | 6.1 | 6.0 | 150.00 |  |  | 21.22 | 7,481 |  | 1,058 |  | 12,299 | 11,126 | 1,233 | 7,481 |  | 1,058 | 12,299 | 11,126 | 1,233 |
| 5/23/2014 | FALSE | true | false | 3.63 | 8.59 | 5.98 | 61\% | 42\% | 70\% |  | 1.44 | 6.1 | 6.0 | 262.00 | 185.00 | 0.71 |  | 13,067 | 9,227 |  |  | 12,245 | 10,748 | 1,237 | 13,067 | 9,227 |  | 12,245 | 10,748 | 1,237 |
| 5/24/2014 | FALSE | True | false | 3.63 | 8.45 | 5.55 | 65\% | 43\% | 66\% |  | 1.52 | 6.1 | 5.9 |  |  |  |  |  |  |  |  | 12,245 | 10,748 | 1,237 |  |  |  | 12,245 | 10,748 | 1,237 |
| 5/25/2014 | FALSE | true | FALSE | 3.35 | 8.10 | 5.31 | 63\% | 41\% | 66\% |  | 1.53 | 6.1 | 5.9 |  |  |  |  |  |  |  |  | 12,199 | 10,748 | 1,237 |  |  |  | 12,199 | 10,748 | 1,237 |
| 5/26/2014 | FALSE | true | FALSE | 3.60 | 8.58 | 5.60 | 64\% | 42\% | 65\% |  | 1.53 | 6.1 | 5.8 |  |  |  |  |  |  |  |  | 12,116 | 10,614 | 1,237 |  |  |  | 12,116 | 10,614 | 1,237 |
| 5/27/2014 | FALSE | true | FALSE | 3.51 | 7.93 | 5.75 | 61\% | 44\% | 73\% |  | 1.38 | 6.0 | 5.8 | 255.00 |  |  |  | 12,229 |  |  |  | 12,123 | 10,614 | 1,237 | 12,229 |  |  | 12,123 | 10,614 | 1,237 |
| 5/28/2014 | FALSE | True | FALSE | 3.54 | 8.34 | 5.84 | 61\% | 42\% | 70\% |  | 1.43 | 6.0 | 5.8 |  |  |  |  |  |  |  |  | 12,123 | 10,614 | 1,237 |  |  |  | 12,123 | 10,614 | 1,237 |
| 5/29/2014 | FALSE | true | false | 3.52 | 8.03 | 5.75 | 61\% | 44\% | 72\% |  | 1.40 | 6.0 | 5.7 | 342.00 |  |  | 23.53 | 16,401 |  | 1,128 |  | 12,393 | 10,614 | 1,216 | 16,401 |  | 1,128 | 12,393 | 10,614 | 1,216 |
| 5/30/2014 | true | true | FALSE | 3.56 | 8.39 | 5.77 | 62\% | 42\% | 69\% |  | 1.45 | 6.0 | 5.7 | 255.00 | 215.00 | 0.84 |  | 12,271 | 10,346 |  |  | 12,441 | 10,543 | 1,216 | 12,271 | 10,346 |  | 12,441 | 10,543 | 1,216 |
| 5/31/2014 | true | true | false | 3.53 | 8.45 | 5.53 | 64\% | 42\% | 65\% |  | 1.53 | 6.0 | 5.6 |  |  |  |  |  |  |  |  | 12,441 | 10,543 | 1,216 |  |  |  | 12,441 | 10,543 | 1,216 |
| 6/1/2014 | True | true | FALSE | 3.48 | 8.51 | 5.53 | 63\% | 41\% | 65\% |  | 1.54 | 6.0 | 5.6 |  |  |  |  |  |  |  |  | 12,303 | 10,543 | 1,201 |  |  |  | 12,303 | 10,543 | 1,201 |
| 6/2/2014 | true | true | FALSE | 3.53 | 8.17 | 5.80 | 61\% | 43\% | 71\% |  | 1.41 | 6.0 | 5.7 | 194.00 |  |  |  | 9,384 |  |  |  | 12,025 | 10,512 | 1,201 | 9,384 |  |  | 12,025 | 10,512 | 1,201 |
| 6/3/2014 | true | true | FALSE | 3.48 | 8.10 | 5.75 | 61\% | 43\% | 71\% |  | 1.41 | 5.9 | 5.7 | 175.00 | 171.00 | 0.98 |  | 8,392 | 8,200 |  |  | 11,798 | 10,182 | 1,201 | 8,392 | 8,200 |  | 11,798 | 10,182 | 1,201 |
| 6/4/2014 | true | true | FALSE | 3.52 | 8.15 | 5.77 | 61\% | 43\% | 71\% |  | 1.41 | 5.9 | 5.7 |  |  |  |  |  |  |  |  | 11,798 | 10,182 | 1,201 |  |  |  | 11,798 | 10,182 | 1,201 |
| 6/5/2014 | true | true | FALSE | 3.54 | 7.87 | 5.80 | 61\% | 45\% | 74\% |  | 1.36 | 5.9 | 5.7 | 195.00 |  |  | 24.66 | 9,433 |  | 1,193 |  | 11,824 | 10,182 | 1,200 | 9,433 |  | 1,193 | 11,824 | 10,182 | 1,200 |
| 6/6/2014 | true | true | false | 3.50 | 7.70 | 5.63 | 62\% | 45\% | 73\% |  | 1.37 | 5.9 | 5.7 | 296.00 | 177.00 | 0.60 |  | 13,898 | 8,311 |  |  | 11,946 | 9,372 | 1,200 | 13,898 | 8,311 |  | 11,946 | 9,372 | 1,200 |
| 6/7/2014 | true | true | FALSE | 3.45 | 7.95 | 5.41 | 64\% | 43\% | 68\% |  | 1.47 | 5.9 | 5.7 |  |  |  |  |  |  |  |  | 11,946 | 9,372 | 1,200 |  |  |  | 11,946 | 9,372 | 1,200 |
| 6/8/2014 | true | true | false | 3.41 | 7.60 | 5.33 | 64\% | 45\% | 70\% |  | 1.43 | 5.8 | 5.6 |  |  |  |  |  |  |  |  | 11,917 | 9,372 | 1,171 |  |  |  | 11,917 | 9,372 | 1,171 |
| 6/9/2014 | true | true | FALSE | 3.47 | 7.57 | 5.57 | 62\% | 46\% | 74\% |  | 1.36 | 5.8 | 5.6 | 248.00 |  |  |  | 11,521 |  |  |  | 11,750 | 9,092 | 1,171 | 11,521 |  |  | 11,750 | 9,092 | 1,171 |
| 6/10/2014 | true | true | FALSE | 3.43 | 7.81 | 5.57 | 62\% | 45\% | 73\% |  | 1.37 | 5.8 | 5.6 | 225.00 | 215.00 | 0.96 |  | 10,452 | 9,988 |  |  | 11,674 | 9,220 | 1,171 | 10,452 | 9,988 |  | 11,674 | 9,220 | 1,171 |
| 6/11/2014 | true | true | FALSE | 3.45 | 7.76 | 5.70 | 61\% | 44\% | 73\% |  | 1.36 | 5.8 | 5.6 |  |  |  |  |  |  |  |  | 11,674 | 9,220 | 1,171 |  |  |  | 11,674 | 9,220 | 1,171 |
| 6/12/2014 | true | true | FALSE | 3.46 | 7.73 | 5.68 | 61\% | 45\% | 73\% |  | 1.36 | 5.8 | 5.6 | 206.00 |  |  | 21.98 | 9,758 |  | 1,041 |  | 11,474 | 9,220 | 1,145 | 9,758 |  | 1,041 | 11,474 | 9,220 | 1,145 |
| 6/13/2014 | TRUE | TRUE | FALSE | 3.47 | 13.73 | 5.62 | 62\% | 25\% | 41\% | AvgMax | 2.44 | 5.8 | 5.6 | 265.00 | 174.00 | 0.66 |  | 12,421 | 8,156 |  |  | 11,301 | 9,102 | 1,145 | 12,421 | 8,156 |  | 11,301 | 9,102 | 1,145 |
| 6/14/2014 | true | true | false | 3.47 | 8.21 | 5.40 | 64\% | 42\% | 66\% |  | 1.52 | 5.7 | 5.5 |  |  |  |  |  |  |  |  | 11,301 | 9,102 | 1,145 |  |  |  | 11,301 | 9,102 | 1,145 |
| 6/15/2014 | true | true | FALSE | 3.46 | 7.94 | 5.32 | 65\% | 44\% | 67\% |  | 1.49 | 5.7 | 5.5 |  |  |  |  |  |  |  |  | 11,054 | 9,038 | 1,145 |  |  |  | 11,054 | 9,038 | 1,145 |
| 6/16/2014 | true | true | false | 3.46 | 7.97 | 5.65 | 61\% | 43\% | 71\% |  | 1.41 | 5.7 | 5.6 | 246.00 |  |  |  | 11,592 |  |  |  | 10,981 | 9,038 | 1,105 | 11,592 |  |  | 10,981 | 9,038 | 1,105 |
| 6/17/2014 | true | true | FALSE | 3.50 | 7.91 | 5.60 | 63\% | 44\% | 71\% |  | 1.41 | 5.7 | 5.6 | 243.00 | 192.00 | 0.79 |  | 11,349 | 8,967 |  |  | 11,002 | 9,028 | 1,105 | 11,349 | 8,967 |  | 11,002 | 9,028 | 1,105 |
| 6/18/2014 | true | true | FALSE | 3.53 | 7.85 | 5.68 | 62\% | 45\% | 72\% |  | 1.38 | 5.7 | 5.6 |  |  |  |  |  |  |  |  | 11,002 | 9,028 | 1,105 |  |  |  | 11,002 | 9,028 | 1,105 |
| 6/19/2014 | True | true | FALSE | 3.58 | 8.07 | 5.69 | 63\% | 44\% | 71\% |  | 1.42 | 5.7 | 5.6 | 228.00 |  |  | 23.24 | 10,820 |  | 1,103 |  | 11,061 | 9,028 | 1,105 | 10,820 |  | 1,103 | 11,061 | 9,028 | 1,105 |
| 6/20/2014 | true | true | false | 3.54 | 7.69 | 5.56 | 64\% | 46\% | 72\% |  | 1.38 | 5.7 | 5.6 | 195.00 | 161.00 | 0.83 |  | 9,042 | 7,466 |  |  | 11,148 | 8,832 | 1,105 | 9,042 | 7,466 |  | 11,148 | 8,832 | 1,105 |
| 6/21/2014 | True | true | FALSE | 3.52 | 7.95 | 5.41 | 65\% | 44\% | 68\% |  | 1.47 | 5.6 | 5.5 |  |  |  |  |  |  |  |  | 11,148 | 8,832 | 1,105 |  |  |  | 11,148 | 8,832 | 1,105 |
| 6/22/2014 | true | true | FALSE | 3.44 | 8.04 | 5.35 | 64\% | 43\% | 67\% |  | 1.50 | 5.6 | 5.5 |  |  |  |  |  |  |  |  | 11,377 | 8,832 | 1,116 |  |  |  | 11,377 | 8,832 | 1,116 |
| 6/23/2014 | True | true | FALSE | 3.50 | 7.75 | 5.53 | 63\% | 45\% | 71\% |  | 1.40 | 5.6 | 5.6 | 217.00 |  |  |  | 10,008 |  |  |  | 11,186 | 8,776 | 1,116 | 10,008 |  |  | 11,186 | 8,776 | 1,116 |
| 6/24/2014 | true | true | FALSE | 3.46 | 7.68 | 5.51 | 63\% | 45\% | 72\% |  | 1.39 | 5.6 | 5.5 | 238.00 | 190.00 | 0.80 |  | 10,937 | 8,731 |  |  | 11,171 | 8,771 | 1,116 | 10,887 | 8,706 |  | 11,168 | 8,767 | 1,116 |
| 6/25/2014 | TRUE | TRUE | FALSE | 3.48 | 7.81 | 5.67 | 61\% | 45\% | 73\% |  | 1.38 | 5.6 | 5.6 |  |  |  |  |  |  |  |  | 11,171 | 8,771 | 1,116 |  |  |  | 11,168 | 8,767 | 1,116 |
| 6/26/2014 | TRUE | true | FALSE | 3.50 | 7.90 | 5.68 | 62\% | 44\% | 72\% |  | 1.39 | 5.6 | 5.6 | 266.00 |  |  | 24.40 | 12,601 |  | 1,156 |  | 11,250 | 8,771 | 1,124 | 12,601 |  | 1,156 | 11,248 | 8,767 | 1,124 |
| 6/27/2014 | TRUE | TRUE | FALSE | 3.52 | 8.03 | 5.63 | 63\% | 44\% | 70\% |  | 1.43 | 5.6 | 5.5 | 452.00 | 243.00 | 0.54 |  | 21,223 | 11,410 |  | TSS | 11,193 | 9,064 | 1,124 | 21,223 | 11,410 |  | 11,190 | 9,061 | 1,124 |
| 6/28/2014 | TRUE | TRUE | FALSE | 3.50 | 7.84 | 5.47 | 64\% | 45\% | 70\% |  | 1.43 | 5.6 | 5.5 |  |  |  |  |  |  |  |  | 11,193 | 9,064 | 1,124 |  |  |  | 11,190 | 9,061 | 1,124 |
| 6/29/2014 | TRUE | TRUE | FALSE | 3.51 | 8.15 | 5.38 | 65\% | 43\% | 66\% |  | 1.51 | 5.6 | 5.5 |  |  |  |  |  |  |  |  | 10,867 | 9,064 | 1,123 |  |  |  | 10,864 | 9,061 | 1,123 |
| 6/30/2014 | TRUE | TRUE | FALSE | 3.59 | 7.86 | 5.64 | 64\% | 46\% | 72\% |  | 1.39 | 5.6 | 5.6 | 217.00 |  |  |  | 10,207 |  |  |  | 10,738 | 8,904 | 1,123 | 10,207 |  |  | 10,735 | 8,900 | 1,123 |
| 7/1/2014 | TRUE | TRUE | FALSE | 3.55 | 7.90 | 5.68 | 63\% | 45\% | 72\% |  | 1.39 | 5.6 | 5.6 |  |  |  |  |  |  |  |  | 10,738 | 8,904 | 1,123 |  |  |  | 10,735 | 8,900 | 1,123 |
| 7/2/2014 | TRUE | TRUE | FALSE | 3.56 | 7.80 | 5.65 | 63\% | 46\% | 72\% |  | 1.38 | 5.6 | 5.6 | 213.00 | 179.00 | 0.84 |  | 10,037 | 8,435 |  |  | 10,697 | 8,851 | 1,123 | 10,037 | 8,435 |  | 10,694 | 8,849 | 1,123 |
| 7/3/2014 | TRUE | TRUE | FALSE | 3.56 | 7.77 | 5.60 | 64\% | 46\% | 72\% |  | 1.39 | 5.6 | 5.6 | 250.00 |  |  | 25.25 | 11,676 |  | 1,179 |  | 10,832 | 8,851 | 1,134 | 11,676 |  | 1,179 | 10,829 | 8,849 | 1,134 |





| Date | $\begin{aligned} & \text { Butte } \\ & \text { Break? } \end{aligned}$ | $\begin{gathered} \text { csu } \\ \text { Break? } \end{gathered}$ | Precip? | $\underset{\substack{\text { Min } \\ \text { Influent } \\ \text { Flow, mgd }}}{ }$ | $\begin{gathered} \text { Max } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | $\begin{gathered} \text { Avg } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | Min \% of Avg | Min \% of Max | Avg \% of Max | $\begin{aligned} & \begin{array}{l} \text { Flow } \\ \text { Outlier } \\ \text { Typpe } \end{array} \end{aligned}$ | $\begin{aligned} & \text { Diurnal } \\ & \text { Peak } \\ & \text { Factor } \\ & \text { (DPF) } \end{aligned}$ | $\begin{gathered} \text { 30-d Avg } \\ \text { of Avg } \\ \text { Flow, mgd } \end{gathered}$ | 7-d Avg of Avg Flow, mgd | Influent TSS Conc., mg/L | Influent BOD Conc., mg/L | BOD/TSS Ratio | Influent NH3-N Conc., mg/L | Avg Inf TSS Load, ppd | $\begin{gathered} \text { Avg lnf } \\ \text { BOD Load, } \\ \text { ppd } \end{gathered}$ | Avg Inf NH3 Load, ppd | $\begin{gathered} \text { Load } \\ \text { Outier } \\ \text { Typer } \end{gathered}$ | 30-d Avg of TSS Load, ppd | 30-d Avg of BOD Load, ppd | 30-d Avg of NH3-N Load, ppd | $\begin{gathered} \text { non-SN } \\ \text { TSS Load, } \\ \text { ppd } \end{gathered}$ | $\begin{gathered} \text { non-SN } \\ \text { BOD Load, } \\ \text { ppd } \end{gathered}$ | non-SN NH3 Load, ppd | 30-d Avg <br> of non-SN TSS Load, ppd | 30-d Avg <br> of non-SN <br> ppd | $\begin{aligned} & \text { 30-d Avg } \\ & \text { of non-SN } \\ & \text { NH3-N } \\ & \text { Load, ppd } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 9/5/2014 | FALSE | FALSE | FALSE | 3.19 | 8.88 | 6.03 | 53\% | 36\% | 68\% |  | 1.47 | 5.7 | 5.9 | 246.00 | 190.00 | 0.77 |  | 12,371 | 9,555 |  |  | 11,597 | 8,828 | 1,141 | 12,371 | 9,555 |  | 11,597 | 8,828 | 1,141 |
| 9/6/2014 | FALSE | FALSE | FALSE | 3.23 | 9.06 | 5.79 | 56\% | 36\% | 64\% |  | 1.56 | 5.7 | 5.8 |  |  |  |  |  |  |  |  | 11,597 | 8,828 | 1,141 |  |  |  | 11,597 | 8,828 | 1,141 |
| 9/7/2014 | FALSE | FALSE | FALSE | 3.13 | 9.09 | 5.87 | 53\% | 34\% | 65\% |  | 1.55 | 5.7 | 5.9 |  |  |  |  |  |  |  |  | 11,619 | 8,828 | 1,177 |  |  |  | 11,619 | 8,828 | 1,177 |
| 9/8/2014 | FALSE | FALSE | FALSE | 3.20 | 8.90 | 6.01 | 53\% | 36\% | 68\% |  | 1.48 | 5.8 | 5.9 | 213.00 |  |  | 23.98 | 10,676 |  | 1,202 |  | 11,635 | 8,963 | 1,182 | 10,676 |  | 1,202 | 11,635 | 8,963 | 1,182 |
| 9/9/2014 | FALSE | FALSE | FALSE | 3.20 | 9.00 | 5.98 | 54\% | 36\% | 66\% |  | 1.51 | 5.8 | 5.9 | 247.00 |  |  |  | 12,319 |  |  |  | 11,675 | 8,963 | 1,182 | 12,319 |  |  | 11,675 | 8,963 | 1,182 |
| 9/10/2014 | FALSE | FALSE | FALSE | 3.19 | 9.06 | 6.00 | 53\% | 35\% | 66\% |  | 1.51 | 5.8 | 6.0 |  |  |  |  |  |  |  |  | 11,675 | 8,963 | 1,182 |  |  |  | 11,675 | 8,963 | 1,182 |
| 9/11/2014 | FALSE | FALSE | FALSE | 3.23 | 9.10 | 6.00 | 54\% | 35\% | 66\% |  | 1.52 | 5.8 | 6.0 |  |  |  |  |  |  |  |  | 11,767 | 8,963 | 1,182 |  |  |  | 11,767 | 8,963 | 1,182 |
| 9/12/2014 | FALSE | FALSE | FALSE | 3.24 | 8.56 | 5.92 | 55\% | 38\% | 69\% |  | 1.45 | 5.8 | 6.0 | 264.00 | 170.00 | 0.64 |  | 13,034 | 8,393 |  |  | 12,092 | 9,211 | 1,182 | 13,034 | 8,393 |  | 12,092 | 9,211 | 1,182 |
| 9/13/2014 | FALSE | FALSE | FALSE | 3.14 | 8.82 | 5.65 | 56\% | 36\% | 64\% |  | 1.56 | 5.8 | 5.9 |  |  |  |  |  |  |  |  | 12,092 | 9,211 | 1,182 |  |  |  | 12,092 | 9,211 | 1,182 |
| 9/14/2014 | FALSE | FALSE | FALSE | 3.13 | 8.97 | 5.76 | 54\% | 35\% | 64\% |  | 1.56 | 5.8 | 5.9 |  |  |  |  |  |  |  |  | 12,306 | 9,211 | 1,207 |  |  |  | 12,306 | 9,211 | 1,207 |
| 9/15/2014 | FALSE | FALSE | FALSE | 3.16 | 8.69 | 5.89 | 54\% | 36\% | 68\% |  | 1.48 | 5.8 | 5.9 | 249.00 |  |  |  | 12,232 |  |  |  | 12,225 | 9,211 | 1,207 | 12,232 |  |  | 12,225 | 9,211 | 1,207 |
| 9/16/2014 | FALSE | FALSE | FALSE | 3.11 | 8.85 | 5.85 | 53\% | 35\% | 66\% |  | 1.51 | 5.9 | 5.9 | 238.00 | 169.00 | 0.71 |  | 11,612 | 8,245 |  |  | 12,187 | 9,073 | 1,207 | 11,386 | 8,201 |  | 12,173 | 9,067 | 1,207 |
| 9/17/2014 | FALSE | FALSE | FALSE | 3.14 | 8.85 | 5.96 | 53\% | 35\% | 67\% |  | 1.48 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 12,187 | 9,073 | 1,207 |  |  |  | 12,173 | 9,067 | 1,207 |
| 9/18/2014 | FALSE | FALSE | FALSE | 3.18 | 8.88 | 5.99 | 53\% | 36\% | 67\% |  | 1.48 | 5.9 | 5.9 | 265.00 |  |  | 24.65 | 13,238 |  | 1,231 |  | 12,305 | 9,073 | 1,212 | 13,238 |  | 1,231 | 12,290 | 9,067 | 1,212 |
| 9/19/2014 | False | FALSE | FALSE | 3.21 | 8.72 | 5.98 | 54\% | 37\% | 69\% |  | 1.46 | 5.9 | 5.9 | 231.00 | 164.00 | 0.71 |  | 11,521 | 8,179 |  |  | 12,426 | 9,177 | 1,212 | 11,521 | 8,179 |  | 12,412 | 9,170 | 1,212 |
| 9/20/2014 | FALSE | FALSE | FALSE | 3.22 | 8.96 | 5.79 | 56\% | 36\% | 65\% |  | 1.55 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 12,426 | 9,177 | 1,212 |  |  |  | 12,412 | 9,170 | 1,212 |
| 9/21/2014 | FALSE | FALSE | FALSE | 3.19 | 9.05 | 5.82 | 55\% | 35\% | 64\% |  | 1.55 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 12,165 | 9,177 | 1,194 |  |  |  | 12,150 | 9,170 | 1,194 |
| 9/2//2014 | FALSE | FALSE | FALSE | 3.17 | 8.99 | 6.03 | 53\% | 35\% | 67\% |  | 1.49 | 5.9 | 5.9 | 236.00 |  |  |  | 11,868 |  |  |  | 12,039 | 8,862 | 1,194 | 11,868 |  |  | 12,024 | 8,855 | 1,194 |
| 9/23/2014 | FALSE | FALSE | FALSE | 3.17 | 8.81 | 5.92 | 54\% | 36\% | 67\% |  | 1.49 | 5.9 | 5.9 | 226.00 | 186.00 | 0.82 |  | 11,158 | 9,183 |  |  | 11,984 | 8,908 | 1,194 | 11,158 | 9,183 |  | 11,970 | 8,902 | 1,194 |
| 9/24/2014 | FALSE | FALSE | FALSE | 3.17 | 9.03 | 6.02 | 53\% | 35\% | 67\% |  | 1.50 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 11,984 | 8,908 | 1,194 |  |  |  | 11,970 | 8,902 | 1,194 |
| 9/25/2014 | FALSE | FALSE | TRUE | 3.23 | 9.41 | 6.32 | 51\% | 34\% | 67\% |  | 1.49 | 5.9 | 6.0 | 285.00 |  |  | 27.91 | 15,022 |  | 1,471 |  | 12,343 | 8,908 | 1,249 | 15,022 |  | 1,471 | 12,329 | 8,902 | 1,249 |
| 9/26/2014 | FALSE | FALSE | FALSE | 3.18 | 8.84 | 6.13 | 52\% | 36\% | 69\% |  | 1.44 | 5.9 | 6.0 | 227.00 | 178.00 | 0.78 |  | 11,605 | 9,100 |  |  | 12,232 | 8,821 | 1,249 | 11,605 | 9,100 |  | 12,217 | 8,815 | 1,249 |
| 9/27/2014 | FALSE | FALSE | FALSE | 3.18 | 8.97 | 5.86 | 54\% | 35\% | 65\% |  | 1.53 | 5.9 | 6.0 |  |  |  |  |  |  |  |  | 12,232 | 8,821 | 1,249 |  |  |  | 12,217 | 8,815 | 1,249 |
| 9/28/2014 | FALSE | FALSE | FALSE | 3.10 | 9.27 | 5.88 | 53\% | 33\% | 63\% |  | 1.58 | 5.9 | 6.0 |  |  |  |  |  |  |  |  | 12,302 | 8,821 | 1,268 |  |  |  | 12,287 | 8,815 | 1,268 |
| 9/29/2014 | FALSE | FALSE | FALSE | 3.15 | 9.28 | 5.97 | 53\% | 34\% | 64\% |  | 1.55 | 5.9 | 6.0 | 212.00 |  |  |  | 10,555 |  |  |  | 12,183 | 8,776 | 1,268 | 10,555 |  |  | 12,168 | 8,769 | 1,268 |
| 9/30/2014 | FALSE | FALSE | FALSE | 3.17 | 8.83 | 6.02 | 53\% | 36\% | 68\% |  | 1.47 | 5.9 | 6.0 | 236.00 | 193.00 | 0.82 |  | 11,849 | 9,690 |  |  | 12,162 | 8,907 | 1,268 | 11,849 | 9,690 |  | 12,148 | 8,900 | 1,268 |
| 101/2014 | FALSE | FALSE | FALSE | 3.12 | 9.05 | 5.89 | 53\% | 34\% | 65\% |  | 1.54 | 5.9 | 6.0 |  |  |  |  |  |  |  |  | 12,162 | 8,907 | 1,268 |  |  |  | 12,148 | 8,900 | 1,268 |
| 10/2/2014 | FALSE | FALSE | FALSE |  | 11.94 | 5.87 |  |  | 49\% | 'gMinMaxA' | 2.03 | 5.9 | 6.0 | 271.00 |  |  | 24.95 | 13,267 |  | 1,221 |  | 12,227 | 8,907 | 1,259 | 13,267 |  | 1,221 | 12,214 | 8,900 | 1,259 |
| 10/3/2014 | FALSE | FALSE | FALSE |  | 11.70 | 5.85 |  |  | 50\% | 'gMinMaxA' | 2.00 | 5.9 | 6.0 | 231.00 | 216.00 | 0.94 |  | 11,270 | 10,538 |  |  | 12,147 | 9,111 | 1,259 | 11,270 | 10,538 |  | 12,133 | 9,105 | 1,259 |
| 10/4/2014 | FALSE | FALSE | FALSE | 3.02 | 13.81 | 5.77 | 52\% | 22\% | 42\% | inMaxAvgM | 2.39 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 12,147 | 9,111 | 1,259 |  |  |  | 12,133 | 9,105 | 1,259 |
| 10/5/2014 | FALSE | FALSE | FALSE | 3.12 | 9.56 | 5.81 | 54\% | 33\% | 61\% |  | 1.65 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 12,100 | 9,111 | 1,281 |  |  |  | 12,086 | 9,105 | 1,281 |
| 10/6/2014 | FALSE | FALSE | FALSE | 3.15 | 9.48 | 5.91 | 53\% | 33\% | 62\% |  | 1.60 | 5.9 | 5.9 | 244.00 |  |  |  | 12,027 |  |  |  | 12,078 | 9,047 | 1,281 | 12,027 |  |  | 12,064 | 9,041 | 1,281 |
| 10/7/2014 | False | FALSE | FALSE | 3.17 | 9.27 | 6.00 | 53\% | 34\% | 65\% |  | 1.55 | 5.9 | 5.9 | 242.00 | 189.00 | 0.78 |  | 12,110 | 9,458 |  |  | 12,080 | 9,098 | 1,281 | 12,110 | 9,458 |  | 12,067 | 9,093 | 1,281 |
| 10/8/2014 | FALSE | FALSE | FALSE | 3.13 | 9.57 | 5.95 | 53\% | 33\% | 62\% |  | 1.61 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 12,080 | 9,098 | 1,281 |  |  |  | 12,067 | 9,093 | 1,281 |
| 109/2014 | FALSE | FALSE | FALSE | 3.14 | 9.28 | 5.97 | 53\% | 34\% | 64\% |  | 1.55 | 5.9 | 5.9 | 224.00 |  |  | 24.75 | 11,153 |  | 1,232 |  | 12,108 | 9,098 | 1,289 | 10,923 |  | 1,232 | 12,081 | 9,093 | 1,289 |
| 10/10/2014 | FALSE | FALSE | FALSE | 3.12 | 9.04 | 5.97 | 52\% | 35\% | 66\% |  | 1.51 | 5.9 | 5.9 | 238.00 | 181.00 | 0.76 |  | 11,850 | 9,012 |  |  | 12,081 | 9,089 | 1,289 | 11,850 | 9,012 |  | 12,054 | 9,084 | 1,289 |
| 10/11/2014 | FALSE | FALSE | FALSE | 3.20 | 9.42 | 5.78 | 55\% | 34\% | 61\% |  | 1.63 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 12,081 | 9,089 | 1,289 |  |  |  | 12,054 | 9,084 | 1,289 |
| 10/12/2014 | FALSE | FALSE | FALSE | 3.10 | 9.03 | 5.70 | 54\% | 34\% | 63\% |  | 1.58 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 12,081 | 9,089 | 1,289 |  |  |  | 12,054 | 9,084 | 1,289 |
| 10/13/2014 | FALSE | FALSE | FALSE | 3.04 | 9.14 | 5.91 | 51\% | 33\% | 65\% |  | 1.55 | 5.9 | 5.9 | 236.00 |  |  |  | 11,632 |  |  |  | 11,998 | 9,176 | 1,289 | 11,632 |  |  | 11,971 | 9,170 | 1,289 |
| 10/14/2014 | FALSE | FALSE | FALSE | 3.12 | 9.48 | 6.09 | 51\% | 33\% | 64\% |  | 1.56 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 11,998 | 9,176 | 1,289 |  |  |  | 11,971 | 9,170 | 1,289 |
| 10/15/2014 | FALSE | FALSE | TRUE | 3.19 | 9.32 | 6.08 | 52\% | 34\% | 65\% |  | 1.53 | 5.9 | 5.9 | 264.00 | 177.00 | 0.67 |  | 13,387 | 8,975 |  |  | 12,075 | 9,153 | 1,289 | 13,387 | 8,975 |  | 12,050 | 9,149 | 1,289 |
| 10/16/2014 | FALSE | FALSE | FALSE | 3.17 | 9.25 | 6.12 | 52\% | 34\% | 66\% |  | 1.51 | 6.0 | 6.0 |  |  |  | 26.38 |  |  | 1,346 |  | 12,066 | 9,153 | 1,301 |  |  | 1,346 | 12,039 | 9,149 | 1,301 |
| 10/17/2014 | FALSE | FALSE | FALSE | 3.16 | 9.25 | 6.17 | 51\% | 34\% | 67\% |  | 1.50 | 6.0 | 6.0 | 256.00 |  |  |  | 13,173 |  |  |  | 12,158 | 9,267 | 1,301 | 13,173 |  |  | 12,144 | 9,267 | 1,301 |
| 10/18/2014 | FALSE | FALSE | FALSE | 3.17 | 9.63 | 5.90 | 54\% | 33\% | 61\% |  | 1.63 | 6.0 | 6.0 |  |  |  |  |  |  |  |  | 12,158 | 9,267 | 1,301 |  |  |  | 12,144 | 9,267 | 1,301 |
| 10/19/2014 | FALSE | FALSE | FALSE | 3.27 | 9.64 | 5.93 | 55\% | 34\% | 62\% |  | 1.63 | 6.0 | 6.0 |  |  |  |  |  |  |  |  | 12,090 | 9,267 | 1,318 |  |  |  | 12,076 | 9,267 | 1,318 |
| 10/20/2014 | FALSE | FALSE | TRUE | 3.10 | 9.44 | 6.09 | 51\% | 33\% | 65\% |  | 1.55 | 6.0 | 6.0 | 238.00 |  |  |  | 12,088 |  |  |  | 12,126 | 9,422 | 1,318 | 12,088 |  |  | 12,112 | 9,422 | 1,318 |
| 10/21/2014 | False | FALSE | FALSE | 3.11 | 13.51 | 6.01 | 52\% | 23\% | 44\% | inMaxAvgM | 2.25 | 6.0 | 6.1 |  |  |  |  |  |  |  |  | 12,126 | 9,422 | 1,318 |  |  |  | 12,112 | 9,422 | 1,318 |
| 10/22/2014 | FALSE | FALSE | FALSE | 3.12 | 9.34 | 6.05 | 52\% | 33\% | 65\% |  | 1.54 | 6.0 | 6.0 | 237.00 |  |  |  | 11,958 |  |  |  | 12,116 | 9,422 | 1,318 | 11,958 |  |  | 12,103 | 9,422 | 1,318 |
| 10/23/2014 | FALSE | FALSE | FALSE | 3.14 | 9.26 | 6.01 | 52\% | 34\% | 65\% |  | 1.54 | 6.0 | 6.0 |  |  |  | 28.56 |  |  | 1,432 |  | 12,132 | 9,422 | 1,341 |  |  | 1,432 | 12,117 | 9,422 | 1,341 |
| 10/24/2014 | FALSE | FALSE | FALSE | 3.11 | 8.89 | 5.90 | 53\% | 35\% | 66\% |  | 1.51 | 6.0 | 6.0 | 276.00 |  |  |  | 13,581 |  |  |  | 12,283 | 9,462 | 1,341 | 13,581 |  |  | 12,269 | 9,462 | 1,341 |
| 10/25/2014 | FALSE | FALSE | TRUE | 3.11 | 9.66 | 5.91 | 53\% | 32\% | 61\% |  | 1.63 | 6.0 | 6.0 |  |  |  |  |  |  |  |  | 12,283 | 9,462 | 1,341 |  |  |  | 12,269 | 9,462 | 1,341 |
| 10/26/2014 | FALSE | FALSE | FALSE | 3.07 | 9.25 | 5.85 | 52\% | 33\% | 63\% |  | 1.58 | 6.0 | 6.0 |  |  |  |  |  |  |  |  | 12,100 | 9,462 | 1,308 |  |  |  | 12,085 | 9,462 | 1,308 |
| 10/27/2014 | FALSE | FALSE | FALSE | 3.11 | 8.76 | 5.94 | 52\% | 36\% | 68\% |  | 1.47 | 6.0 | 6.0 | 214.00 |  |  |  | 10,601 |  |  |  | 12,033 | 9,535 | 1,308 | 10,601 |  |  | 12,018 | 9,535 | 1,308 |
| 10/28/2014 | FALSE | FALSE | FALSE | 3.05 | 14.60 | 5.97 | 51\% | 21\% | 41\% | inMaxAvgM | 2.45 | 6.0 | 5.9 |  |  |  |  |  |  |  |  | 12,033 | 9,535 | 1,308 |  |  |  | 12,018 | 9,535 | 1,308 |
| 10/29/2014 | FALSE | FALSE | FALSE | 3.15 | 9.29 | 5.75 | 55\% | 34\% | 62\% |  | 1.62 | 5.9 | 5.9 | 280.00 | 216.00 | 0.77 |  | 13,427 | 10,358 |  |  | 12,121 | 9,672 | 1,308 | 13,427 | 10,358 |  | 12,106 | 9,672 | 1,308 |
| 10/30/2014 | FALSE | FALSE | FALSE | 3.42 | 8.20 | 6.13 | 56\% | 42\% | 75\% |  | 1.34 | 6.0 | 5.9 |  |  |  | 28.42 |  |  | 1,453 |  | 12,225 | 9,672 | 1,337 |  |  | 1,453 | 12,210 | 9,672 | 1,337 |
| 10/31/2014 | FALSE | FALSE | TRUE | 3.51 | 8.91 | 6.40 | 55\% | 39\% | 72\% |  | 1.39 | 6.0 | 6.0 | 257.00 |  |  |  | 13,718 |  |  |  | 12,349 | 9,668 | 1,337 | 13,718 |  |  | 12,334 | 9,668 | 1,337 |
| 11/1/2014 | FALSE | FALSE | FALSE | 3.61 | 9.20 | 6.24 | 58\% | 39\% | 68\% |  | 1.47 | 6.0 | 6.0 |  |  |  |  |  |  |  |  | 12,349 | 9,668 | 1,337 |  |  |  | 12,334 | 9,668 | 1,337 |
| 11/2/2014 | FALSE | FALSE | FALSE | 3.34 | 9.16 | 6.20 | 54\% | 36\% | 68\% |  | 1.48 | 6.0 | 6.1 |  |  |  |  |  |  |  |  | 12,284 | 9,668 | 1,366 |  |  |  | 12,268 | 9,668 | 1,366 |
| 11/3/2014 | FALSE | FALSE | FALSE | 3.34 | 9.16 | 6.20 | 54\% | 36\% | 68\% |  | 1.48 | 6.0 | 6.1 | 204.00 |  |  |  | 10,548 |  |  |  | 12,232 | 9,451 | 1,366 | 10,548 |  |  | 12,216 | 9,451 | 1,366 |
| 11/4/2014 | FALSE | FALSE | FALSE | 3.38 | 8.51 | 6.07 | 56\% | 40\% | 71\% |  | 1.40 | 6.0 | 6.1 |  |  |  |  |  |  |  |  | 12,232 | 9,451 | 1,366 |  |  |  | 12,216 | 9,451 | 1,366 |
| 11/5/2014 | FALSE | FALSE | FALSE | 3.40 | 8.81 | 6.11 | 56\% | 39\% | 69\% |  | 1.44 | 6.0 | 6.1 | 230.00 | 195.00 | 0.85 |  | 11,720 | 9,937 |  |  | 12,198 | 9,548 | 1,366 | 11,720 | 9,937 |  | 12,183 | 9,548 | 1,366 |
| 11/6/2014 | FALSE | FALSE | FALSE | 3.33 | 8.48 | 6.10 | 55\% | 39\% | 72\% |  | 1.39 | 6.0 | 6.2 |  |  |  | 28.62 |  |  | 1,456 |  | 12,211 | 9,548 | 1,384 |  |  | 1,456 | 12,194 | 9,548 | 1,384 |


| Date | $\begin{array}{\|l\|l} \text { Butte } \\ \text { Break? } \end{array}$ | $\begin{gathered} \text { csu } \\ \text { Break? } \end{gathered}$ | Precip? |  | $\underset{\substack{\text { Max } \\ \text { Influent } \\ \text { Flow, } \text { mgd }}}{\text { and }}$ | $\begin{gathered} \text { Avg } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | $\begin{aligned} & \text { Min \% of } \\ & \text { Avg } \end{aligned}$ | $\underset{\text { max }}{\min _{2} \text { of }}$ | $\begin{aligned} & \text { Avg \% of } \\ & \text { Max } \end{aligned}$ | $\begin{aligned} & \text { Flow } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | $\begin{aligned} & \text { Diurnal } \\ & \text { Peak } \\ & \text { Factor } \\ & \text { (DPF) } \end{aligned}$ | $\begin{aligned} & \text { 30-d Avg } \\ & \text { of Avg } \\ & \text { Flow, mgd } \end{aligned}$ | 7-d Avg of Avg Flow, mgd | Influent TSS Conc., mg/L | Influent BOD Conc. mg/L | BOD/TSS Ratio | Influent NH3-N Conc., mg/L | Avg Inf TSS Load, ppd | $\begin{gathered} \text { Avg Inf } \\ \text { BOD Load, } \\ \text { ppd } \end{gathered}$ | Avg lnf NH3 load, ppd | $\begin{aligned} & \text { Load } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | 30-d Avg of TSS Load, ppd | $\begin{aligned} & \text { 30-d Avg } \\ & \text { of BOD } \\ & \text { Load, ppd } \end{aligned}$ | 30-d Avg of NH3-N Load, ppd | non-SN TSS Load, ppd | non-SN BOD Load, ppd | $\begin{gathered} \text { non-SN } \\ , \begin{array}{c} \text { NH3 Load, } \\ \text { ppd } \end{array} \end{gathered}$ | 30-d Avg of ns Load, ppd | 30-d Avg of non-SN BOD Load, ppd | 30-d Avg NH3-N Load, ppd |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 11/7/2014 | FALSE | FALSE | FALSE | 3.39 | 8.40 | 6.05 | 56\% | 40\% | 72\% |  | 1.39 | 6.0 | 6.2 | 284.00 |  |  |  | 14,330 |  |  |  | 12,369 | 9,571 | 1,384 | 14,330 |  |  | 12,353 | 9,571 | 1,384 |
| 11/8/2014 | FALSE | FALSE | FALSE | 3.28 | 8.34 | 5.81 | 56\% | 39\% | 70\% |  | 1.44 | 6.0 | 6.1 |  |  |  |  |  |  |  |  | 12,369 | 9,571 | 1,384 |  |  |  | 12,353 | 9,571 | 1,384 |
| 11/9/2014 | FALSE | FALSE | FALSE | 3.31 | 8.44 | 5.86 | 56\% | 39\% | 69\% |  | 1.44 | 6.0 | 6.1 |  |  |  |  |  |  |  |  | 12,463 | 9,571 | 1,422 |  |  |  | 12,463 | 9,571 | 1,422 |
| 11/10/2014 | FALSE | FALSE | FALSE | 3.29 | 8.05 | 5.89 | 56\% | 41\% | 73\% |  | 1.37 | 6.0 | 6.0 | 284.00 |  |  |  | 13,951 |  |  |  | 12,624 | 9,757 | 1,422 | 13,951 |  |  | 12,624 | 9,757 | 1,422 |
| 11/11/2014 | FALSE | FALSE | FALSE | 3.35 | 8.46 | 6.04 | 55\% | 40\% | 71\% |  | 1.40 | 6.0 | 6.0 |  |  |  |  |  |  |  |  | 12,624 | 9,757 | 1,422 |  |  |  | 12,624 | 9,757 | 1,422 |
| 11/12/2014 | FALSE | FALSE | FALSE | 3.37 | 8.16 | 5.94 | 57\% | 41\% | 73\% |  | 1.37 | 6.0 | 6.0 |  |  |  |  |  |  |  |  | 12,624 | 9,757 | 1,422 |  |  |  | 12,624 | 9,757 | 1,422 |
| 11/13/2014 | FALSE | FALSE | TRUE | 3.37 | 8.14 | 6.08 | 55\% | 41\% | 75\% |  | 1.34 | 6.0 | 6.0 |  |  |  | 26.86 |  |  | 1,362 |  | 12,707 | 9,757 | 1,410 |  |  | 1,362 | 12,707 | 9,757 | 1,410 |
| 11/14/2014 | FALSE | FALSE | FALSE | 3.37 | 8.17 | 6.02 | 56\% | 41\% | 74\% |  | 1.36 | 6.0 | 6.0 | 271.00 | 234.00 | 0.86 |  | 13,606 | 11,748 |  |  | 12,776 | 10,255 | 1,410 | 13,606 | 11,748 |  | 12,776 | 10,255 | 1,410 |
| 11/15/2014 | FALSE | FALSE | FALSE | 3.34 | 8.39 | 5.87 | 57\% | 40\% | 70\% |  | 1.43 | 6.0 | 5.9 |  |  |  |  |  |  |  |  | 12,725 | 10,681 | 1,410 |  |  |  | 12,725 | 10,681 | 1,410 |
| 11/16/2014 | FALSE | FALSE | FALSE | 3.22 | 8.61 | 5.92 | 54\% | 37\% | 69\% |  | 1.45 | 6.0 | 6.0 |  |  |  |  |  |  |  |  | 12,725 | 10,681 | 1,426 |  |  |  | 12,725 | 10,681 | 1,426 |
| 11/17/2014 | FALSE | FALSE | FALSE | 3.28 | 8.19 | 6.02 | 54\% | 40\% | 74\% |  | 1.36 | 6.0 | 6.0 | 215.00 |  |  |  | 10,794 |  |  |  | 12,527 | 10,681 | 1,426 | 10,794 |  |  | 12,527 | 10,681 | 1,426 |
| 11/18/2014 | FALSE | FALSE | FALSE | 3.31 | 8.20 | 6.08 | 54\% | 40\% | 74\% |  | 1.35 | 6.0 | 6.0 |  |  |  |  |  |  |  |  | 12,527 | 10,681 | 1,426 |  |  |  | 12,527 | 10,681 | 1,426 |
| 11/19/2014 | FALSE | FALSE | True | 3.25 | 8.43 | 6.26 | 52\% | 39\% | 74\% |  | 1.35 | 6.0 | 6.0 | 200.00 | 208.00 | 1.04 |  | 10,442 | 10,859 |  |  | 12,367 | 10,726 | 1,426 | 10,442 | 10,859 |  | 12,367 | 10,726 | ${ }^{1,426}$ |
| 11/20/2014 | FALSE | FALSE | true | 3.46 | 8.68 | 6.36 | 54\% | 40\% | 73\% |  | 1.36 | 6.0 | 6.1 |  |  |  | 26.17 |  |  | 1,388 |  | 12,390 | 10,726 | 1,418 |  |  | 1,388 | 12,390 | 10,726 | 1,418 |
| 11/21/2014 | FALSE | TRUE | true | 3.50 | 8.38 | 6.29 | 56\% | 42\% | 75\% |  | 1.33 | 6.0 | 6.1 | 268.00 |  |  |  | 14,059 |  |  |  | 12,518 | 10,726 | 1,418 | 13,832 |  |  | 12,501 | 10,726 | 1,418 |
| 11/22/2014 | FALSE | TRUE | true | 3.72 | 8.86 | 6.15 | 60\% | 42\% | 69\% |  | 1.44 | 6.0 | 6.1 |  |  |  |  |  |  |  |  | 12,565 | 10,726 | 1,418 |  |  |  | 12,546 | 10,726 | 1,418 |
| 11/23/2014 | FALSE | true | TRUE | 3.33 | 8.50 | 5.86 | 57\% | 39\% | 69\% |  | 1.45 | 6.0 | 6.1 |  |  |  |  |  |  |  |  | 12,565 | 10,726 | 1,415 |  |  |  | 12,546 | 10,726 | 1,415 |
| 11/24/2014 | FALSE | TRUE | FALSE | 3.42 | 7.68 | 5.81 | 59\% | 45\% | 76\% |  | 1.32 | 6.0 | 6.1 |  |  |  |  |  |  |  |  | 12,472 | 10,726 | 1,415 |  |  |  | 12,452 | 10,726 | 1,415 |
| 11/25/2014 | FALSE | TRUE | FALSE | 3.40 | 8.72 | 5.73 | 59\% | 39\% | 66\% |  | 1.52 | 6.0 | 6.1 |  |  |  | 26.85 |  |  | 1,283 |  | 12,472 | 10,726 | 1,388 |  |  | 1,283 | 12,452 | 10,726 | 1,388 |
| 11/26/2014 | TRUE | TRUE | FALSE | 3.25 | 9.01 | 5.80 | 56\% | 36\% | 64\% |  | 1.55 | 6.0 | 6.0 | 217.00 | 220.00 | 1.01 |  | 10,497 | 10,642 |  |  | 12,308 | 10,709 | 1,388 | 10,497 | 10,642 |  | 12,289 | 10,709 | 1,388 |
| 11/27/2014 | true | true | FALSE | 2.68 | 9.35 | 5.31 | 50\% | 29\% | 57\% | AvgMax | 1.76 | 6.0 | 6.0 |  |  |  |  |  |  |  |  | 12,463 | 10,709 | 1,388 |  |  |  | 12,442 | 10,709 | 1,388 1 1 |
| 11/28/2014 | TRUE | TRUE | true | 3.18 | 8.67 | 5.32 | 60\% | 37\% | 61\% |  | 1.63 | 6.0 | 5.9 |  |  |  |  |  |  |  |  | 12,463 | 10,709 | 1,388 |  |  |  | 12,442 | 10,709 | 1,388 |
| 11/29/2014 | true | true | True | 3.26 | 12.89 | 5.79 | 56\% | 25\% | 45\% | AvgMax | 2.23 | 6.0 | 5.8 |  |  |  |  |  |  |  |  | 12,366 | 10,797 | 1,388 |  |  |  | 12,344 | 10,797 | 1,388 |
| 11/30/2014 | true | TRUE | true | 3.36 | 10.24 | 6.36 | 53\% | 33\% | 62\% |  | 1.61 | 6.0 | 5.8 |  |  |  |  |  |  |  |  | 12,366 | 10,797 | 1,372 |  |  |  | 12,344 | 10,797 | 1,372 |
| 12/1/2014 | true | TRUE | true | 3.53 | 10.17 | 6.88 | 51\% | 35\% | 68\% |  | 1.48 | 6.0 | 6.0 | 162.00 |  |  |  | 9,295 |  |  |  | 11,924 | 10,797 | 1,372 | 9,295 |  |  | 11,902 | 10,797 | 1,372 |
| 12/2/2014 | false | FALSE | TRUE | 1.48 | 18.82 | 6.62 | 22\% | 8\% | 35\% | 'gMinMaxA | 2.84 | 6.0 | 6.0 |  |  |  |  |  |  |  |  | 11,924 | 10,797 | 1,372 |  |  |  | 11,902 | 10,797 | 1,372 |
| 12/3/2014 | false | FALSE | TRUE | 3.84 | 15.91 | 8.24 | 47\% | 24\% | 52\% | inMaxavgM | 1.93 | 6.0 | 6.1 |  |  |  |  |  |  |  |  | 11,924 | 10,797 | 1,372 |  |  |  | 11,902 | 10,797 | 1,372 |
| 12/4/2014 | FALSE | FALSE | true | 3.88 | 11.74 | 7.51 | 52\% | 33\% | 64\% |  | 1.56 | 6.1 | 6.5 |  |  |  | 13.50 |  |  | 846 |  | 12,077 | 10,797 | 1,267 |  |  | 846 | 12,052 | 10,797 | 1,267 |
| 12/5/2014 | FALSE | FALSE | true |  | 11.32 | 7.48 |  |  | 66\% | inAvgMinM | 1.51 | 6.1 | 6.5 | 232.00 | 212.00 | 0.91 |  | 14,473 | 13,225 |  |  | 12,317 | 11,282 | 1,267 | 14,473 | 13,225 |  | 12,294 | 11,282 | 1,267 |
| 12/6/2014 | FALSE | FALSE | TRUE | 4.58 | 12.92 | 8.14 | 56\% | 35\% | 63\% |  | 1.59 | 6.2 | 7.2 |  |  |  |  |  |  |  |  | 12,383 | 11,619 | 1,267 |  |  |  | 12,358 | 11,619 | 1,267 |
| 12/7/2014 | False | FALSE | TRUE | 3.74 | 12.05 | 7.19 | 52\% | 31\% | 60\% |  | 1.68 | 6.2 | 7.2 |  |  |  |  |  |  |  |  | 12,383 | 11,619 | 1,220 |  |  |  | 12,358 | 11,619 | 1,220 |
| 12/8/2014 | false | FALSE | FALSE | 3.59 | 11.06 | 6.85 | 52\% | 32\% | 62\% |  | 1.61 | 6.2 | 7.3 | 250.00 |  |  |  | 14,282 |  |  |  | 12,378 | 11,619 | 1,220 | 14,282 |  |  | 12,352 | 11,619 | 1,220 |
| 12/9/2014 | FALSE | FALSE | FALSE | 3.52 | 10.55 | 6.68 | 53\% | 33\% | 63\% |  | 1.58 | 6.3 | 7.3 |  |  |  |  |  |  |  |  | 12,378 | 11,619 | 1,220 |  |  |  | 12,352 | 11,619 | 1,220 |
| 12/10/2014 | false | FALSE | TRUE | 3.43 | 11.19 | 6.72 | 51\% | 31\% | 60\% |  | 1.67 | 6.3 | 7.2 | 364.00 | 243.00 | 0.67 |  | 20,400 | 13,619 |  |  | 13,180 | 12,019 | 1,220 | 20,208 | 13,569 |  | 13,138 | 12,009 | 1,220 |
| 12/11/2014 | FALSE | FALSE | TRUE | 5.23 | 18.88 | 12.92 | 40\% | 28\% | 68\% | MinAvg | 1.46 | 6.3 | 7.2 |  |  |  | 22.00 |  |  | 2,371 | NH3 | 13,094 | 12,019 | 1,220 |  |  | 2,371 | 13,048 | 12,009 | 1,220 |
| 12/12/2014 | false | FALSE | TRUE | 8.93 | 18.82 | 11.76 | 76\% | 47\% | 62\% | Minavg | 1.60 | 6.3 | 7.1 |  |  |  |  |  |  |  |  | 13,094 | 12,019 | 1,220 |  |  |  | 13,048 | 12,009 | 1,220 |
| 12/13/2014 | FALSE | FALSE | FALSE | 5.13 | 14.10 | 9.04 | 57\% | 36\% | 64\% |  | 1.56 | 6.5 | 7.4 |  |  |  |  |  |  |  |  | 13,094 | 12,019 | 1,220 |  |  |  | 13,048 | 12,009 | 1,220 |
| 12/14/2014 | false | FALSE | FALSE | 4.07 | 12.94 | 7.98 | 51\% | 31\% | 62\% |  | 1.62 | 6.5 | 7.4 |  |  |  |  |  |  |  |  | 13,994 | 12,019 | 1,172 |  |  |  | 13,048 | 12,009 | 1,172 |
| 12/15/2014 | FALSE | FALSE | True | 3.69 | 15.68 | 8.89 | 42\% | 24\% | 57\% | 'gMinMaxA' | 1.76 | 6.6 | 7.5 | 169.00 |  |  |  | 12,530 |  |  |  | 12,975 | 12,086 | 1,172 | 12,530 |  |  | 12,928 | 12,074 | 1,172 |
| 12/16/2014 | false | FALSE | TRUE | 6.59 | 17.37 | 10.94 | 60\% | 38\% | 63\% |  | 1.59 | 6.8 | 8.3 |  |  |  | 8.94 |  |  | 816 |  | 12,975 | 12,086 | 1,083 |  |  | 816 | 12,928 | 12,074 | 1,083 |
| 12/17/2014 | FALSE | FALSE | TRUE | 6.56 | 15.39 | 10.94 | 60\% | 43\% | 71\% |  | 1.41 | 7.0 | 9.1 | 112.00 | 116.00 | 1.04 |  | 10,219 | 10,584 |  |  | 12,699 | 11,786 | 1,083 | 10,219 | 10,584 |  | 12,657 | 11,776 | 1,083 |
| 12/18/2014 | false | FALSE | true | 5.36 | 15.03 | 9.93 | 54\% | 36\% | 66\% |  | 1.51 | 7.2 | 9.8 |  |  |  |  |  |  |  |  | 12,911 | 11,786 | 1,083 |  |  |  | 12,864 | 11,776 | 1,083 |
| 12/19/2014 | true | TRUE | TRUE | 5.33 | 15.72 | 10.46 | 51\% | 34\% | 67\% |  | 1.50 | 7.4 | 9.9 | 168.00 |  |  |  | 14,656 |  |  |  | 13,085 | 11,786 | 1,083 | 14,656 |  |  | 13,043 | 11,776 | 1,083 |
| 12/20/2014 | true | true | true | 5.01 | 15.22 | 9.15 | 55\% | 33\% | 60\% |  | 1.66 | 7.5 | 9.8 |  |  |  |  |  |  |  |  | 13,379 | 12,017 | 1,083 |  |  |  | 13,332 | 12,005 | 1,083 |
| 12/21/2014 | true | true | FALSE | 4.08 | 12.75 | 7.99 | 51\% | 32\% | 63\% |  | 1.60 | 7.6 | 9.6 |  |  |  |  |  |  |  |  | 13,379 | 12,017 | 981 |  |  |  | 13,332 | 12,005 | 981 |
| 12/22/2014 | true | true | FALSE | 4.00 | 13.62 | 7.55 | 53\% | 29\% | 55\% | AvgMax | 1.80 | 7.6 | 9.9 | 134.00 |  |  |  | 8,438 |  |  |  | 12,754 | 12,017 | 981 | 8,438 |  |  | 12,733 | 12,005 | 981 |
| 12/23/2014 | true | true | FALSE | 3.80 | 11.46 | 7.20 | 53\% | 33\% | 63\% |  | 1.59 | 7.7 | 9.5 |  |  |  | 12.71 |  |  | 763 |  | 12,754 | 12,017 | 927 |  |  | 763 | 12,733 | 12,005 | 927 |
| 12/24/2014 | true | TRUE | FALSE | 3.63 | 10.97 | 6.80 | 53\% | 33\% | 62\% |  | 1.61 | 7.7 | 8.9 |  |  |  |  |  |  |  |  | 12,754 | 12,017 | 927 |  |  |  | 12,733 | 12,005 | 927 |
| 12/25/2014 | true | true | FALSE | 3.39 | 9.07 | 5.75 | 59\% | 37\% | 63\% |  | 1.58 | 7.7 | 8.2 |  |  |  |  |  |  |  |  | 12,754 | 12,017 | 927 |  |  |  | 12,733 | 12,005 | 927 |
| 12/26/2014 | true | TRUE | FALSE | 3.37 | 10.24 | 5.98 | 56\% | 33\% | 58\% |  | 1.71 | 7.7 | 7.6 | 338.00 | 193.00 | 0.57 |  | 16,857 | 9,626 |  |  | 13,165 | 11,539 | 808 | 16,857 | 9,626 |  | 13,145 | 11,529 | 808 |
| 12/27/2014 | true | TRUE | FALSE | 3.25 | 9.86 | 5.93 | 55\% | 33\% | 60\% |  | 1.66 | 7.7 | 7.0 |  |  |  |  |  |  |  |  | 13,461 | 11,763 | 808 |  |  |  | 13,440 | 11,751 | 808 |
| 12/28/2014 | true | true | FALSE | 3.24 | 9.83 | 5.78 | 56\% | 33\% | 59\% |  | 1.70 | 7.6 | 6.5 |  |  |  |  |  |  |  |  | 13,461 | 11,763 | 808 |  |  |  | 13,440 | 11,751 | 808 |
| 12/29/2014 | true | true | FALSE | 3.19 | 9.62 | 5.90 | 54\% | 33\% | 61\% |  | 1.63 | 7.7 | 6.2 | 239.00 |  |  |  | 11,760 |  |  |  | 13,291 | 11,763 | 808 | 11,760 |  |  | 13,272 | 11,751 | 808 |
| 12/30/2014 | true | TRUE | FALSE | 3.16 | 9.55 | 5.84 | 54\% | 33\% | 61\% |  | 1.64 | 7.6 | 6.1 |  |  |  | 20.58 |  |  | 1,002 |  | 13,291 | 11,763 | 857 |  |  | 1,002 | 13,272 | 11,751 | 857 |
| 12/31/2014 | true | TRUE | FALSE | 3.13 | 9.63 | 5.88 | 53\% | 33\% | 61\% |  | 1.64 | 7.6 | 6.0 | 226.00 | 182.00 | 0.81 |  | 11,083 | 8,925 |  |  | 13,090 | 11,196 | 857 | 11,083 | 8,925 |  | 13,073 | 11,186 | 857 |
| 1/1/2015 | true | TRUE | FALSE | 3.22 | 9.11 | 5.33 | 60\% | 35\% | 59\% |  | 1.71 | 7.5 | 5.8 |  |  |  |  |  |  |  |  | 13,470 | 11,196 | 857 |  |  |  | 13,451 | 11,186 | 857 |
| 1/2/2015 | true | true | FALSE | 3.12 | 9.31 | 5.55 | 56\% | 34\% | 60\% |  | 1.68 | 7.4 | 5.8 | 246.00 |  |  |  | 11,387 |  |  |  | 13,280 | 11,196 | 857 | 11,387 |  |  | 13,263 | 11,186 | 857 |
| 1/3/2015 | true | TRUE | FALSE | 3.17 | 9.66 | 5.67 | 56\% | 33\% | 59\% |  | 1.70 | 7.4 | 5.7 |  |  |  |  |  |  |  |  | 13,280 | 11,196 | 857 |  |  |  | 13,263 | 11,186 | 857 |
| 1/4/2015 | true | true | FALSE | 3.09 | 9.76 | 5.71 | 54\% | 32\% | 59\% |  | 1.71 | 7.3 | 5.7 |  |  |  |  |  |  |  |  | 13,280 | 11,196 | 860 |  |  |  | 13,263 | 11,186 | 860 |
| 1/5/2015 | true | TRUE | FALSE | 3.12 | 9.15 | 5.69 | 55\% | 34\% | 62\% |  | 1.61 | 7.2 | 5.7 | 202.00 |  |  |  | 9,586 |  |  |  | 12,836 | 10,688 | 860 | 9,586 |  |  | 12,819 | 10,676 | 860 |
| 1/6/2015 | true | TRUE | FALSE |  | 9.06 | 5.63 |  |  | 62\% | inAvgMinM | 1.61 | 7.2 | 5.7 |  |  |  | 24.83 |  |  | 1,166 |  | 12,836 | 10,688 | 937 |  |  | 1,166 | 12,819 | 10,676 | 937 |
| 1/7/2015 | true | TRUE | FALSE | 3.14 | 9.22 | 5.68 | 55\% | 34\% | 62\% |  | 1.62 | 7.1 | 5.6 | 219.00 | 182.00 | 0.83 |  | 10,374 | 8,622 |  |  | 12,631 | 10,275 | 937 | 10,374 | 8,622 |  | 12,615 | 10,265 | 937 |
| 1/8/2015 |  |  | FALSE | 3.16 | 9.04 | 5.71 | 55\% | 35\% | 63\% |  | 1.58 | 7.1 | 5.6 |  |  |  |  |  |  |  |  | 12,481 | 10,275 | 937 |  |  |  | 12,463 | 10,265 | 937 |


| Date | Butte Break? | $\begin{array}{\|c\|c\|c\|c\|c\|} \text { csreak? } \end{array}$ | Precip? |  | $\begin{gathered} \text { Max } \\ \text { Influent } \\ \text { Flow, } \text { mgd } \end{gathered}$ | $\begin{gathered} \text { Avg } \\ \text { Influent } \\ \text { Flow, } \mathrm{mgd} \end{gathered}$ | $\begin{aligned} & \text { Min \% of } \\ & \text { Avg } \end{aligned}$ | Min \% of | $\begin{gathered} \text { Avg \% of } \\ \text { Max } \end{gathered}$ | $\begin{aligned} & \text { Flow } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | Diurnal Peak Factor (DPF) | $\begin{aligned} & 30-\mathrm{d} \text { Avg } \\ & \text { of Avg } \\ & \text { Flow, mgd } \end{aligned}$ | 7-d Avg of Avg Flow, mgd | Influent TSS Conc., mg/L | Influent BOD Conc. mg/L | BOD/TSS | Influent NH3-N Conc., mg/L | Avg Inf TSS Load, ppd | Avg Inf BOD Load, ppd | Avg Inf NH3 Load, ppd | $\begin{gathered} \text { Load } \\ \text { Outlier } \\ \text { Type } \end{gathered}$ | 30-d Avg of TSS Load, ppd | 30-d Avg of BOD Load, ppd | 30-d Avg of NH3-N Load, ppd | $\begin{aligned} & \text { non-SN } \\ & \text { TSS Load, } \\ & \text { ppd } \end{aligned}$ | $\begin{gathered} \text { non-SN } \\ \text { BOD Load, } \\ \text { ppd } \end{gathered}$ | non-SN NH3 Load, ppd | 30-d Avg <br> of non-SN TSS Load, ppd | 30-d Avg <br> of non-SN BOD Load, ppd | $\begin{aligned} & \text { 30-d Avg } \\ & \text { of non-SN } \\ & \text { NH3 } \\ & \text { Load, ppd } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1/9/2015 | TRUE | TRUE | FALSE | 3.17 | 9.01 | 5.63 | 56\% | 35\% | 62\% |  | 1.60 | 7.0 | 5.7 | 258.00 |  |  |  | 12,114 |  |  |  | 12,450 | 10,275 | 937 | 12,114 |  |  | 12,434 | 10,265 | 937 |
| 1/1/20015 | TRUE | TRUE | FALSE | 3.18 | 10.00 | 5.66 | 56\% | 32\% | 57\% | AvgMax | 1.77 | 7.1 | 5.7 |  |  |  |  |  |  |  |  | 11,728 | 9,439 | 937 |  |  |  | 11,728 | 9,439 | 937 |
| 1/11/2015 | TRUE | true | FALSE | 3.12 | 9.69 | 5.60 | 56\% | 32\% | 58\% | AvgMax | 1.73 | 7.1 | 5.7 |  |  |  |  |  |  |  |  | 11,728 | 9,439 | 937 |  |  |  | 11,728 | 9,439 | 937 |
| 1/12/2015 | true | true | FALSE | 3.14 | 8.91 | 5.65 | 56\% | 35\% | 63\% |  | 1.58 | 7.0 | 5.7 |  |  |  |  |  |  |  |  | 11,728 | 9,439 | 937 |  |  |  | 11,728 | 9,439 | 937 |
| 1/13/2015 | TRUE | TRUE | FALSE | 3.07 | 9.17 | 5.65 | 54\% | 33\% | 62\% |  | 1.62 | 6.9 | 5.7 | 24.00 |  |  | 23.59 | 11,592 |  | 1,112 |  | 11,716 | 9,439 | 972 | 11,592 |  | 1,112 | 11,716 | 9,439 | 972 |
| 1/14/2015 | true | true | FALSE | 3.13 | 9.41 | 5.67 | 55\% | 33\% | 60\% |  | 1.66 | 6.8 | 5.7 |  |  |  |  |  |  |  |  | 11,716 | 9,439 | 972 |  |  |  | 11,716 | 9,439 | 972 |
| 1/15/2015 | TRUE | TRUE | FALSE | 3.15 | 9.21 | 5.69 | 55\% | 34\% | 62\% |  | 1.62 | 6.7 | 5.7 | 275.00 | 255.00 | 0.93 |  | 13,050 | 12,101 |  |  | 11,760 | 9,971 | 972 | 13,050 | 12,101 |  | 11,760 | 9,971 | 972 |
| 1/16/2015 | true | true | TRUE | 3.24 | 9.05 | 5.74 | 56\% | 36\% | 63\% |  | 1.58 | 6.6 | 5.7 | 281.00 |  |  |  | 13,452 |  |  |  | 11,890 | 9,971 | 1,011 | 13,452 |  |  | 11,890 | 9,971 | 1,011 |
| 1/17/2015 | TRUE | TRUE | FALSE | 3.15 | 9.64 | 5.73 | 55\% | 33\% | 59\% |  | 1.68 | 6.4 | 5.7 |  |  |  |  |  |  |  |  | 12,029 | 9,818 | 1,011 |  |  |  | 12,029 | 9,818 | 1,011 |
| 1/18/2015 | true | true | FALSE | 3.14 | 9.96 | 5.62 | 56\% | 32\% | 56\% | AvgMax | 1.77 | 6.2 | 5.7 |  |  |  |  |  |  |  |  | 12,029 | 9,818 | 1,011 |  |  |  | 12,029 | 9,818 | 1,011 |
| 1/19/2015 | TRUE | TRUE | FALSE | 3.16 | 10.25 | 5.98 | 53\% | 31\% | 58\% |  | 1.71 | 6.0 | 5.7 |  |  |  |  |  |  |  |  | 11,790 | 9,818 | 1,011 |  |  |  | 11,790 | 9,818 | 1,011 |
| 1/20/2015 | TRUE | FALSE | TrUE | 3.16 | 10.07 | 5.91 | 53\% | 31\% | 59\% |  | 1.70 | 5.9 | 5.8 | 272.00 |  |  | 24.99 | 13,407 |  | 1,232 |  | 11,925 | 9,818 | 1,055 | 13,407 |  | 1,232 | 11,925 | 9,818 | 1,055 |
| 1/21/2015 | true | FALSE | TRUE | 3.11 | 9.99 | 5.99 | 52\% | 31\% | 60\% |  | 1.67 | 5.8 | 5.8 | 314.00 | 138.00 | 0.44 |  | 15,886 | 6,894 |  |  | 12,214 | 9,233 | 1,055 | 15,886 | 6,894 |  | 12,214 | 9,233 | 1,055 |
| 1/22/2015 | TRUE | FALSE | false | 3.12 | 9.76 | 5.97 | 52\% | 32\% | 61\% |  | 1.63 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 12,529 | 9,233 | 1,055 |  |  |  | 12,529 | 9,233 | 1,055 |
| 1/23/2015 | TRUE | FALSE | True | 3.12 | 9.83 | 5.97 | 52\% | 32\% | 61\% |  | 1.65 | 5.8 | 5.9 | 225.00 |  |  |  | 11,203 |  |  |  | 12,427 | 9,233 | 1,128 | 11,203 |  |  | 12,427 | 9,233 | 1,128 |
| 1/24/2015 | true | FALSE | false | 3.19 | 10.26 | 5.87 | 54\% | 31\% | 57\% | AvgMax | 1.75 | 5.8 | 5.9 |  |  |  |  |  |  |  |  | 12,427 | 9,233 | 1,128 |  |  |  | 12,427 | 9,233 | 1,128 |
| 1/25/2015 | TRUE | FALSE | false | 3.09 | 10.67 | 5.99 | 52\% | 29\% | 56\% | AvgMax | 1.78 | 5.8 | 6.0 |  |  |  |  |  |  |  |  | 12,427 | 9,233 | 1,128 |  |  |  | 12,427 | 9,233 | 1,128 |
| 1/26/2015 | True | FALSE | false | 3.10 | 10.00 | 5.92 | 52\% | 31\% | 59\% |  | 1.69 | 5.8 | 6.0 | 175.00 |  |  |  | 8,640 |  |  |  | 11,795 | 9,135 | 1,128 | 8,640 |  |  | 11,795 | 9,135 | 1,128 |
| 1/27/2015 | FALSE | FALSE | FALSE | 3.13 | 9.83 | 5.96 | 53\% | 32\% | 61\% |  | 1.65 | 5.8 | 6.0 |  |  |  | 25.79 |  |  | 1,282 |  | 11,795 | 9,135 | 1,159 |  |  | 1,282 | 11,795 | 9,135 | 1,159 |
| 1/28/2015 | FALSE | FALSE | FALSE | 3.05 | 9.76 | 5.92 | 52\% | 31\% | 61\% |  | 1.65 | 5.8 | 6.0 | 264.00 | 184.00 | 0.70 |  | 13,034 | 9,085 |  |  | 11,883 | 9,125 | 1,159 | 13,034 | 9,085 |  | 11,883 | 9,125 | 1,159 |
| 1/29/2015 | FALSE | FALSE | false | 3.09 | 9.83 | 5.88 | 53\% | 31\% | 60\% |  | 1.67 | 5.8 | 5.9 |  |  |  |  |  |  |  |  | 11,893 | 9,125 | 1,159 |  |  |  | 11,893 | 9,125 | 1,159 |
| 1/30/2015 | FALSE | FALSE | FALSE | 3.05 | 9.65 | 5.92 | 52\% | 32\% | 61\% |  | 1.63 | 5.8 | 5.9 | 157.00 |  |  |  | 7,752 |  |  |  | 11,597 | 9,125 | 1,198 | 7,752 |  |  | 11,597 | 9,125 | 1,198 |
| 1/31/2015 | FALSE | FALSE | FALSE | 3.10 | 10.28 | 5.85 | 53\% | 30\% | 57\% | AvgMax | 1.76 | 5.8 | 5.9 |  |  |  |  |  |  |  |  | 11,637 | 9,175 | 1,198 |  |  |  | 11,637 | 9,175 | 1,198 |
| 2/1/2015 | FALSE | FALSE | FALSE | 2.89 | 10.80 | 5.79 | 50\% | 27\% | 54\% | AvgMax | 1.87 | 5.8 | 5.9 |  |  |  |  |  |  |  |  | 11,637 | 9,175 | 1,198 |  |  |  | 11,637 | 9,175 | 1,198 |
| 2/2/2015 | FALSE | FALSE | TRUE | 3.07 | 9.79 | 5.88 | 52\% | 31\% | 60\% |  | 1.66 | 5.8 | 5.9 | 232.00 |  |  |  | 11,377 |  |  |  | 11,636 | 9,175 | 1,198 | 11,377 |  |  | 11,636 | 9,175 | 1,198 |
| 2/3/2015 | FALSE | FALSE | FALSE | 3.13 | 9.96 | 5.94 | 53\% | 31\% | 60\% |  | 1.68 | 5.8 | 5.9 |  |  |  | 27.28 |  |  | 1,351 |  | 11,636 | 9,175 | 1,229 |  |  | 1,351 | 11,636 | 9,175 | 1,229 |
| 2/4/2015 | FALSE | FALSE | FALSE | 3.12 | 9.77 | 5.95 | 52\% | 32\% | 61\% |  | 1.64 | 5.8 | 5.9 | 296.00 | 219.00 | 0.74 |  | 14,688 | 10,867 |  |  | 11,854 | 9,514 | 1,229 | 14,688 | 10,867 |  | 11,854 | 9,514 | 1,229 |
| 2/5/2015 | FALSE | FALSE | false | 3.15 | 9.77 | 5.98 | 53\% | 32\% | 61\% |  | 1.63 | 5.8 | 5.9 |  |  |  |  |  |  |  |  | 12,028 | 9,514 | 1,229 |  |  |  | 12,028 | 9,514 | 1,229 |
| 2/6/2015 | FALSE | FALSE | TRUE | 3.17 | 13.74 | 7.43 | 43\% | 23\% | 54\% | inMaxAvgM | 1.85 | 5.8 | 5.9 | 286.00 |  |  |  | 17,722 |  |  |  | 12,435 | 9,514 | 1,244 | 17,722 |  |  | 12,435 | 9,514 | 1,244 |
| 2/7/2015 | FALSE | FALSE | True | 4.59 | 13.73 | 8.59 | 53\% | 33\% | 63\% |  | 1.60 | 6.0 | 6.5 |  |  |  |  |  |  |  |  | 12,594 | 9,737 | 1,244 |  |  |  | 12,594 | 9,737 | 1,244 |
| 2/8/2015 | FALSE | FALSE | TRUE | 3.58 | 14.13 | 8.31 | 43\% | 25\% | 59\% |  | 1.70 | 6.1 | 6.8 |  |  |  |  |  |  |  |  | 12,594 | 9,737 | 1,244 |  |  |  | 12,594 | 9,737 | 1,244 |
| 2/9/2015 | FALSE | FALSE | false | 4.16 | 13.22 | 8.39 | 50\% | 31\% | 63\% |  | 1.58 | 6.2 | 7.0 | 170.00 |  |  |  | 11,895 |  |  |  | 12,577 | 9,737 | 1,244 | 11,895 |  |  | 12,577 | 9,737 | 1,244 |
| 2/10/2015 | False | FALSE | false | 3.68 | 12.23 | 7.49 | 49\% | 30\% | 61\% |  | 1.63 | 6.3 | 7.2 |  |  |  | 14.20 |  |  | 887 |  | 12,577 | 9,737 | 1,173 |  |  | 887 | 12,577 | 9,737 | 1,173 |
| 2/11/2015 | FALSE | FALSE | FALISE | 3.44 | 11.74 | 7.12 | 48\% | 29\% | 61\% |  | 1.65 | 6.3 | 7.4 |  |  |  |  |  |  |  |  | 12,577 | 9,737 | 1,173 |  |  |  | 12,577 | 9,737 | 1,173 |
| 2/12/2015 | FALSE | FALSE | false | 3.34 | 10.94 | 6.85 | 49\% | 31\% | 63\% |  | 1.60 | 6.3 | 7.5 |  |  |  |  |  |  |  |  | 12,577 | 9,737 | 1,173 |  |  |  | 12,577 | 9,737 | 1,173 |
| 2/13/2015 | FALSE | FALSE | FALISE | 3.33 | 10.78 | 6.72 | 50\% | 31\% | 62\% |  | 1.60 | 6.4 | 7.6 | 225.00 | 209.00 | 0.93 |  | 12,610 | 11,713 |  |  | 12,655 | 10,132 | 1,188 | 12,610 | 11,713 |  | 12,655 | 10,132 | 1,188 |
| 2/14/2015 | FALSE | FALSE | FALSE | 3.31 | 10.99 | 6.38 | 52\% | 30\% | 58\% |  | 1.72 | 6.4 | 7.5 |  |  |  |  |  |  |  |  | 12,655 | 10,132 | 1,188 |  |  |  | 12,655 | 10,132 | 1,188 |
| 2/15/2015 | FALSE | FALSE | FALSE | 3.33 | 11.10 | 6.24 | 53\% | 30\% | 56\% | AvgMax | 1.78 | 6.4 | 7.3 |  |  |  |  |  |  |  |  | 12,622 | 9,640 | 1,188 |  |  |  | 12,622 | 9,640 | 1,188 |
| 2/16/2015 | False | FALSE | FALSE | 3.21 | 10.94 | 6.46 | 50\% | 29\% | 59\% |  | 1.69 | 6.5 | 7.1 |  |  |  |  |  |  |  |  | 12,547 | 9,640 | 1,188 |  |  |  | 12,547 | 9,640 | 1,188 |
| 2/17/2015 | FALSE | FALSE | FALSE | 3.25 | 10.32 | 6.38 | 51\% | 31\% | 62\% |  | 1.62 | 6.5 | 6.8 |  |  |  |  |  |  |  |  | 12,547 | 9,640 | 1,188 |  |  |  | 12,547 | 9,640 | 1,188 |
| 2/18/2015 | FALSE | FALSE | FALSE | 3.21 | 10.40 | 6.29 | 51\% | 31\% | 60\% |  | 1.65 | 6.5 | 6.6 | 259.00 | 219.00 | 0.85 |  | 13,587 | 11,488 |  |  | 12,634 | 10,010 | 1,188 | 13,587 | 11,488 |  | 12,634 | 10,010 | 1,188 |
| 2/19/2015 | FALSE | FALSE | TRUE | 3.15 | 10.05 | 6.28 | 50\% | 31\% | 62\% |  | 1.60 | 6.5 | 6.5 |  |  |  | 19.20 |  |  | 1,006 |  | 12,634 | 10,010 | 1,152 |  |  | 1,006 | 12,634 | 10,010 | 1,152 |
| 2/20/2015 | FALSE | FALSE | TRUE | 3.18 | 10.16 | 6.20 | 51\% | 31\% | 61\% |  | 1.64 | 6.5 | 6.4 | 241.00 |  |  |  | 12,462 |  |  |  | 12,555 | 10,010 | 1,131 | 12,462 |  |  | 12,555 | 10,010 | 1,131 |
| 2/21/2015 | FALSE | FALSE | FALSE | 3.14 | 10.33 | 6.09 | 52\% | 30\% | 59\% |  | 1.70 | 6.5 | 6.3 |  |  |  |  |  |  |  |  | 12,270 | 10,788 | 1,131 |  |  |  | 12,270 | 10,788 | 1,131 |
| 2/22/2015 | FALSE | FALSE | FALSE | 3.15 | 10.44 | 6.04 | 52\% | 30\% | 58\% | AvgMax | 1.73 | 6.5 | 6.3 |  |  |  |  |  |  |  |  | 12,270 | 10,788 | 1,131 |  |  |  | 12,270 | 10,788 | 1,131 |
| 2/23/2015 | FALSE | FALSE | FALSE | 3.17 | 10.34 | 6.10 | 52\% | 31\% | 59\% |  | 1.70 | 6.5 | 6.3 | 230.00 |  |  |  | 11,701 |  |  |  | 12,315 | 10,788 | 1,131 | 11,701 |  |  | 12,315 | 10,788 | 1,131 |
| 2/24/2015 | FALSE | FALSE | FALSE | 3.09 | 10.09 | 6.09 | 51\% | 31\% | 60\% |  | 1.66 | 6.5 | 6.2 |  |  |  | 19.01 |  |  | 966 |  | 12,315 | 10,788 | 1,098 |  |  | 966 | 12,315 | 10,788 | 1,098 |
| 2/2//2015 | FALSE | FALSE | FALSE | 3.12 | 10.46 | 6.09 | 51\% | 30\% | 58\% |  | 1.72 | 6.5 | 6.2 | 263.00 | 231.00 | 0.88 |  | 13,358 | 11,733 |  |  | 12,402 | 10,977 | 1,098 | 13,358 | 11,733 |  | 12,402 | 10,977 | 1,098 |
| 2/26/2015 | FALSE | FALSE | FALSE | 3.15 | 10.24 | 6.08 | 52\% | 31\% | 59\% |  | 1.68 | 6.5 | 6.1 |  |  |  |  |  |  |  |  | 12,744 | 10,977 | 1,098 |  |  |  | 12,744 | 10,977 | 1,098 |
| 2/27/2015 | FALSE | FALSE | TRUE | 3.18 | 10.17 | 6.15 | 52\% | 31\% | 60\% |  | 1.65 | 6.5 | 6.1 | 264.00 |  |  |  | 13,541 |  |  |  | 12,811 | 10,977 | 1,052 | 13,541 |  |  | 12,811 | 10,977 | 1,052 |
| 2/28/2015 | FALSE | FALSE | FALSE | 3.15 | 10.74 | 6.01 | 52\% | 29\% | 56\% | AvgMax | 1.79 | 6.5 | 6.1 |  |  |  |  |  |  |  |  | 12,790 | 11,450 | 1,052 |  |  |  | 12,790 | 11,450 | 1,052 |
| 3/1/2015 | FALSE | FALSE | FALSE | 3.09 | 10.52 | 5.96 | 52\% | 29\% | 57\% | AvgMax | 1.77 | 6.6 | 6.1 |  |  |  |  |  |  |  |  | 12,790 | 11,450 | 1,052 |  |  |  | 12,790 | 11,450 | 1,052 |
| 3/2/2015 | FALSE | FALSE | FALSE | 3.18 | 10.13 | 6.05 | 53\% | 31\% | 60\% |  | 1.67 | 6.6 | 6.1 | 281.00 |  |  |  | 14,178 |  |  |  | 13,375 | 11,450 | 1,052 | 14,178 |  |  | 13,375 | 11,450 | 1,052 |
| 3/3/2015 | FALSE | FALSE | FALSE | 3.16 | 10.51 | 6.07 | 52\% | 30\% | 58\% | AvgMax | 1.73 | 6.6 | 6.1 |  |  |  | 23.34 |  |  | 1,182 |  | 13,375 | 11,450 | 1,078 |  |  | 1,182 | 13,375 | 11,450 | 1,078 |
| 3/4/2015 | FALSE | FALSE | FALSE | 3.15 | 10.26 | 6.06 | 52\% | 31\% | 59\% |  | 1.69 | 6.6 | 6.1 | 234.00 | 257.00 | 1.10 |  | 11,826 | 12,989 |  |  | 13,246 | 11,758 | 1,078 | 11,826 | 12,989 |  | 13,246 | 11,758 | 1,078 |
| 3/5/2015 | FALSE | FALSE | FALSE | 3.17 | 10.06 | 6.03 | 53\% | 32\% | 60\% |  | 1.67 | 6.6 | 6.1 |  |  |  |  |  |  |  |  | 13,415 | 11,758 | 1,078 |  |  |  | 13,415 | 11,758 | 1,078 |
| 3/6/2015 | ${ }_{\text {FALSE }}$ | FALSE | FALSE | 3.11 3.1 | ${ }^{9.84}$ | 6.00 594 | 52\% | 32\% | 61\% |  | 1.64 | 6.6 | 6.1 | 268.00 |  |  |  | 13,411 |  |  |  | 13,415 | 11,758 | 1,010 | 13,411 |  |  | 13,415 | 11,758 | 1,010 |
| 3/7/2015 | FALSE | FALSE | FALSE | 3.19 | 10.16 | 5.94 | 54\% | 31\% | 58\% |  | 1.71 | 6.6 | 6.0 |  |  |  |  |  |  |  |  | 13,299 | 11,981 | 1,010 |  |  |  | 13,299 | 11,981 | 1,010 |
| 3/8/2015 | ${ }_{\text {FALSE }}$ | ${ }_{\text {FALSE }}$ | ${ }_{\text {FALSE }}$ | 3.15 3 | 10.45 | 5.94 | 53\% | 30\% | 57\% | AveMax | 1.76 | 6.6 | 6.0 |  |  |  |  |  |  |  |  | 13,299 | 11,981 | 1,010 |  |  |  | 13,299 | 11,981 | 1,010 |
| 3/9/2015 | FALSE | FALSE | FALSE | 3.09 3 | 10.34 | 5.97 | 52\% | 30\% | 58\% | AvgMax | 1.73 | ${ }_{6}^{6.6}$ | 6.0 | 177.00 |  |  |  | 8,813 |  |  |  | 12,489 | 11,981 | 1,010 | 8,813 |  |  | 12,489 | 11,981 | 1,010 |
| 3/10/2015 | FALSE | FALSE | FALSE | 3.18 | 9.62 | 6.03 | 53\% | 33\% | 63\% |  | 1.60 | 6.5 |  |  |  |  | 25.00 |  |  | 1,257 |  | 12,489 | 11,981 | 1,059 |  |  | 1,257 | 12,489 | 11,981 | 1,059 |
| $3 / 11 / 2015$ $3 / 12 / 2015$ | ${ }_{\text {FALSE }}$ FALSE | FALSE | $\underset{\text { FALSE }}{\text { TRUE }}$ | 3.17 3.16 | 9.90 10.03 | 6.03 6.10 | 53\% | 32\% | 61\% |  | 1.64 1.64 | 6.4 6.3 | 6.0 6.0 | 263.00 | 269.00 | 1.02 |  | 13,226 | 13,528 |  |  | 12,551 12,610 | 12,290 12,290 | 1,059 1,059 | 13,226 | 13,528 |  | $\xrightarrow{12,551}$ | 12,290 12,290 | $\xrightarrow{1,059}$ |


| Date | $\begin{array}{\|l\|l} \text { Butte } \\ \text { Break? } \end{array}$ | $\underset{\text { Break? }}{\text { csu }}$ | Precip? | $\min _{\substack{\text { Influent } \\ \text { Flow, mgd }}}^{\text {man }}$ | $\underset{\substack{\text { Max } \\ \text { Influent } \\ \text { Flow, } \text { mgd }}}{\text { and }}$ | $\begin{gathered} \text { Avg } \\ \text { Influent } \\ \text { Flow, } \mathrm{mgd} \end{gathered}$ | Min \% of Avg | $\underset{\text { max }}{\min _{\text {max }}}$ | Avg \% of | $\begin{aligned} & \text { Flow } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | $\begin{aligned} & \text { Diurnal } \\ & \text { Peak } \\ & \text { Factor } \\ & \text { (DPF) } \end{aligned}$ | $\begin{gathered} 30-\mathrm{d} \text { Avg } \\ \text { of Avg } \\ \text { Flow, } \mathrm{mgd} \end{gathered}$ | 7-d Avg of Avg Flow, mgd | Influent TSS Conc., mg/L | $\begin{gathered} \text { Influent } \\ \text { BoD } \\ \text { Conc., } \\ \mathrm{mg} / \mathrm{L} \end{gathered}$ | $\underset{\text { Ratio }}{\text { BOD/TSS }}$ | Influent NH3-N Conc., mg/L | Avg Inf TSS Load, ppd | Avg Inf BOD Load, ppd | Avg Inf NH3 Load, ppd | $\begin{aligned} & \text { Load } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | $\begin{gathered} \text { 30-d Avg } \\ \text { of TSS } \\ \text { Load, ppd } \end{gathered}$ | 30-d Avg Load, ppd | 30-d Avg of NH3-N Load, ppd | non-SN TSS Load, ppd | non-SN BOD Load, ppd | non-SN NH3 Load, ppd | $\begin{gathered} \text { 30-d Avg } \\ \text { of non-SN } \\ \text { TSS Load, } \\ \text { ppd } \end{gathered}$ | 30-d Avg <br> of non-SN BOD Load, ppd | $\begin{gathered} \text { 30-d Avg } \\ \text { of non-SN } \\ \text { NH3-N } \\ \text { Load, ppd } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3/13/2015 | FALSE | TRUE | FALSE | 3.04 | 9.58 | 5.95 | 51\% | 32\% | 62\% |  | 1.61 | 6.2 | 6.0 | 186.00 |  |  |  | 9,230 |  |  |  | 12,329 | 12,290 | 1,102 | 9,230 |  |  | 12,329 | 12,290 | 1,102 |
| 3/14/2015 | FALSE | TRUE | FALSE | 3.17 | 9.45 | 5.51 | 58\% | 34\% | 58\% |  | 1.72 | 6.2 | 5.9 |  |  |  |  |  |  |  |  | 12,329 | 12,290 | 1,102 |  |  |  | 12,329 | 12,290 | 1,102 |
| 3/15/2015 | FALSE | true | false | 3.17 | 9.64 | 5.38 | 59\% | 33\% | 56\% | AvgMax | 1.79 | 6.1 | 5.9 |  |  |  |  |  |  |  |  | 12,329 | 12,290 | 1,102 |  |  |  | 12,329 | 12,290 | 1,102 |
| 3/16/2015 | FALSE | true | FALSE | 3.14 | 9.06 | 5.49 | 57\% | 35\% | 61\% |  | 1.65 | 6.1 | 5.9 | 223.00 |  |  |  | 10,210 |  |  |  | 12,129 | 12,435 | 1,102 | 10,210 |  |  | 12,129 | 12,435 | 1,102 |
| 3/17/2015 | FALSE | true | FALSE | 3.15 | 8.92 | 5.38 | 59\% | 35\% | 60\% |  | 1.66 | 6.0 | 5.8 |  |  |  | 24.96 |  |  | 1,120 |  | 12,129 | 12,435 | 1,106 |  |  | 1,120 | 12,129 | 12,435 | 1,106 |
| 3/18/2015 | true | true | FALSE | 3.21 | 8.50 | 5.40 | 59\% | 38\% | 64\% |  | 1.57 | 6.0 | 5.7 | 256.00 | 215.00 | 0.84 |  | 11,529 | 9,683 |  |  | 12,082 | 11,884 | 1,106 | 11,529 | 9,883 |  | 12,082 | 11,884 | 1,106 |
| 3/19/2015 | True | true | FALSE | 3.18 | 8.03 | 5.36 | 59\% | 40\% | 67\% |  | 1.50 | 6.0 | 5.6 |  |  |  |  |  |  |  |  | 12,082 | 11,884 | 1,106 |  |  |  | 12,082 | 11,884 | 1,106 |
| 3/20/2015 | true | true | FALSE | 3.25 | 7.43 | 5.44 | 60\% | 44\% | 73\% |  | 1.37 | 5.9 | 5.5 | 256.00 |  |  |  | 11,615 |  |  |  | 12,049 | 11,884 | 1,106 | 11,615 |  |  | 12,049 | 11,884 | 1,106 |
| 3/21/2015 | true | True | FALSE | 3.22 | 7.80 | 5.41 | 60\% | 41\% | 69\% |  | 1.44 | 5.9 | 5.4 |  |  |  |  |  |  |  |  | 11,931 | 11,983 | 1,106 |  |  |  | 11,931 | 11,983 | 1,106 |
| 3/22/2015 | true | true | True | 3.20 | 8.06 | 5.65 | 57\% | 40\% | 70\% |  | 1.43 | 5.9 | 5.4 |  |  |  |  |  |  |  |  | 11,931 | 11,983 | 1,131 |  |  |  | 11,931 | 11,983 | 1,131 |
| 3/23/2015 | true | true | TrUE | 3.20 | 8.04 | 5.89 | 54\% | 40\% | 73\% |  | 1.37 | 5.8 | 5.5 | 235.00 |  |  |  | 11,544 |  |  |  | 11,860 | 11,983 | 1,131 | 11,544 |  |  | 11,860 | 11,983 | 1,131 |
| 3/24/2015 | TRUE | FALSE | True | 3.23 | 8.45 | 5.85 | 55\% | 38\% | 69\% |  | 1.44 | 5.8 | 5.5 |  |  |  | 24.81 |  |  | 1,210 |  | 11,860 | 11,983 | 1,147 |  |  | 1,210 | 11,860 | 11,983 | 1,147 |
| 3/25/2015 | FALSE | FALSE | false | 3.17 | 8.31 | 5.86 | 54\% | 38\% | 71\% |  | 1.42 | 5.8 | 5.6 | 257.00 | 228.00 | 0.89 |  | 12,560 | 11,143 |  |  | 11,910 | 11,815 | 1,147 | 12,560 | 11,143 |  | 11,910 | 11,815 | 1,147 |
| 3/26/2015 | FALSE | FALSE | FALSE | 3.25 | 8.12 | 5.88 | 55\% | 40\% | 72\% |  | 1.38 | 5.8 | 5.7 |  |  |  |  |  |  |  |  | 11,926 | 11,815 | 1,147 |  |  |  | 11,926 | 11,815 | 1,147 |
| 3/27/2015 | FALSE | FALSE | FALSE | 3.24 | 8.35 | 5.94 | 55\% | 39\% | 71\% |  | 1.41 | 5.8 | 5.7 | 272.00 | 211.00 | 0.78 |  | 13,475 | 10,453 |  |  | 12,037 | 11,588 | 1,192 | 13,475 | 10,453 |  | 12,037 | 11,588 | 1,192 |
| 3/28/2015 | FALSE | FALSE | false | 3.24 | 8.72 | 5.79 | 56\% | 37\% | 66\% |  | 1.51 | 5.8 | 5.8 |  |  |  |  |  |  |  |  | 11,935 | 11,559 | 1,192 |  |  |  | 11,935 | 11,559 | 1,192 |
| 3/29/2015 | FALSE | FALSE | FALSE | 3.21 | 8.96 | 5.68 | 57\% | 36\% | 63\% |  | 1.58 | 5.8 | 5.8 |  |  |  |  |  |  |  |  | 11,935 | 11,559 | 1,192 |  |  |  | 11,935 | 11,559 | 1,192 |
| 3/30/2015 | FALSE | FALSE | FALSE | 3.30 | 8.38 | 5.91 | 56\% | 39\% | 71\% |  | 1.42 | 5.8 | 5.9 | 224.00 |  |  |  | 11,041 |  |  |  | 11,743 | 11,559 | 1,192 | 11,041 |  |  | 11,743 | 11,559 | 1,192 |
| 3/31/2015 | FALSE | FALSE | FALSE | 3.22 | 8.04 | 5.95 | 54\% | 40\% | 74\% |  | 1.35 | 5.8 | 5.9 |  |  |  | 26.05 |  |  | 1,293 |  | 11,743 | 11,559 | 1,212 |  |  | 1,293 | 11,743 | 11,559 | 1,212 |
| 4/1/2015 | FALSE | FALSE | FALSE | 3.23 | 8.19 | 5.84 | 55\% | 39\% | 71\% |  | 1.40 | 5.8 | 5.9 | 294.00 | 285.00 | 0.97 |  | 14,319 | 13,881 |  |  | 11,927 | 11,946 | 1,212 | 14,319 | 13,881 |  | 11,927 | 11,946 | 1,212 |
| 4/2/2015 | FALSE | FALSE | FALSE | 3.20 | 8.25 | 5.84 | 55\% | 39\% | 71\% |  | 1.41 | 5.8 | 5.9 |  |  |  |  |  |  |  |  | 11,754 | 11,946 | 1,212 |  |  |  | 11,754 | 11,946 | 1,212 |
| 4/3/2015 | FALSE | FALSE | FALSE | 3.20 | 8.23 | 5.81 | 55\% | 39\% | 71\% |  | 1.42 | 5.8 | 5.8 | 294.00 |  |  |  | 14,246 |  |  |  | 11,932 | 11,946 | 1,220 | 14,246 |  |  | 11,932 | 11,946 | 1,220 |
| 4/4/2015 | FALSE | FALSE | FALSE | 3.21 | 8.77 | 5.65 | 57\% | 37\% | 64\% |  | 1.55 | 5.8 | 5.8 |  |  |  |  |  |  |  |  | 11,940 | 11,738 | 1,220 |  |  |  | 11,940 | 11,738 | 1,220 |
| 4/5/2015 | FALSE | FALSE | TRUE | 3.15 | 8.53 | 5.52 | 57\% | 37\% | 65\% |  | 1.55 | 5.8 | 5.8 |  |  |  |  |  |  |  |  | 11,940 | 11,738 | 1,220 |  |  |  | 11,940 | 11,738 | 1,220 |
| 4/6/2015 | FALSE | FALSE | false |  | 9.21 | 5.56 |  |  | 60\% | inAvgMinM | 1.66 | 5.7 | 5.8 | 382.00 |  |  |  | 17,713 |  |  |  | 12,271 | 11,738 | 1,220 | 17,713 |  |  | 12,271 | 11,738 | 1,220 |
| 4/7/2015 | FALSE | FALSE | TRUE | 3.05 | 18.00 | 6.43 | 47\% | 17\% | 36\% | inMaxAvgM | 2.80 | 5.7 | 5.8 |  |  |  | 23.48 |  |  | 1,259 |  | 12,271 | 11,738 | 1,228 |  |  | 1,259 | 12,271 | 11,738 | 1,228 |
| 4/8/2015 | FALSE | FALSE | FALSE | 3.32 | 8.71 | 6.18 | 54\% | 38\% | 71\% |  | 1.41 | 5.8 | 5.8 | 260.00 | 212.00 | 0.82 |  | 13,401 | 10,927 |  |  | 12,352 | 11,602 | 1,228 | 13,401 | 10,927 |  | 12,352 | 11,602 | 1,228 |
| 4/9/2015 | FALSE | FALSE | FALISE | 3.28 | 8.39 | 6.07 | 54\% | 39\% | 72\% |  | 1.38 | 5.8 | 5.8 |  |  |  |  |  |  |  |  | 12,624 | 11,602 | 1,228 |  |  |  | 12,624 | 11,602 | 1,228 |
| 4/10/2015 | FALSE | FALSE | false | 3.29 | 8.29 | 6.02 | 55\% | 40\% | 73\% |  | 1.38 | 5.8 | 5.9 |  |  |  |  |  |  |  |  | 12,624 | 11,602 | 1,221 |  |  |  | 12,624 | 11,602 | 1,221 |
| 4/11/2015 | FALSE | FALSE | FALSE | 3.31 3.33 | 8.63 | 5.86 5.78 | 56\% | 38\% | 68\% |  | 1.47 | 5.8 | 5.9 |  |  |  |  |  |  |  |  | 12,574 | 11,217 | 1,221 |  |  |  | 12,574 | 11,217 | 1,221 |
| 4/12/2015 | FALSE | FALSE | false | 3.23 | 8.60 | 5.78 | 56\% | 38\% | 67\% |  | 1.49 | 5.7 | 5.9 |  |  |  |  |  |  |  |  | 12,574 | 11,217 | 1,221 |  |  |  | 12,574 | 11,217 | 1,221 |
| 4/13/2015 | FALSE | FALSE | FALSE | 3.21 | 8.08 | 5.86 | 55\% | 40\% | 73\% |  | 1.38 | 5.7 | 6.0 | 241.00 |  |  |  | 11,778 |  |  |  | 12,786 | 11,217 | 1,221 | 11,778 |  |  | 12,786 | 11,217 | 1,221 |
| 4/14/2015 | FALSE | FALSE | FALSE | 3.45 | 8.13 | 5.90 | 58\% | 42\% | 73\% |  | 1.38 | 5.8 | 6.0 |  |  |  | 23.20 |  |  | 1,142 |  | 12,786 | 11,217 | 1,205 |  |  | 1,142 | 12,786 | 11,217 | 1,205 |
| 4/15/2015 | FALSE | FALSE | FALISE | 3.37 | 8.10 | 5.88 | 57\% | 42\% | 73\% |  | 1.38 | 5.8 | 5.9 | 286.00 | 216.00 | 0.76 |  | 14,025 | 10,592 |  |  | 12,881 | 11,113 | 1,205 | 14,025 | 10,592 |  | 12,881 | 11,113 | 1,205 |
| 4/16/2015 | FALSE | FALSE | FALISE | 3.44 | 8.20 | 5.89 | 58\% | 42\% | 72\% |  | 1.39 | 5.8 | 5.9 |  |  |  |  |  |  |  |  | 13,104 | 11,113 | 1,205 |  |  |  | 13,104 | 11,113 | 1,205 |
| 4/17/2015 | FALSE | FALSE | FALSE | 3.45 | 7.93 | 5.88 | 59\% | 44\% | 74\% |  | 1.35 | 5.8 | 5.9 | 267.00 |  |  |  | 13,093 |  |  |  | 13,103 | 11,113 | 1,226 | 13,093 |  |  | 13,103 | 11,113 | 1 1,226 |
| 4/18/2015 | FALSE | FALSE | FALSE | 3.46 | 8.28 | 5.66 | 61\% | 42\% | 68\% |  | 1.46 | 5.8 | 5.8 |  |  |  |  |  |  |  |  | 13,234 | 11,399 | 1,226 |  |  |  | 13,234 | 11,399 | 1,226 |
| 4/199/2015 | FALSE | FALSE | ${ }_{\text {FFALSE }}$ | 3.32 3.7 | 8.76 9.14 | 5.58 584 | 59\% | 38\% | 64\% |  | 1.57 | 5.8 | 5.8 |  |  |  |  |  |  |  |  | 13,234 | 11,399 | 1,226 |  |  |  | 13,234 | 11,399 | 1,226 1 1226 |
| 4/20/2015 | FALSE | FALSE | FALSE | 3.17 | 9.14 | 5.84 | 54\% | 35\% | 64\% |  | 1.57 | 5.8 | 5.8 |  |  |  |  |  |  |  |  | 13,381 | 11,399 | 1,226 |  |  |  | 13,381 | 11,399 | 1,226 |
| 4/21/2015 | FALSE | FALSE | ${ }_{\text {FALLSE }}$ | 3.35 3.37 | 16.66 8.07 | 5.93 5.87 | 56\% | 20\% | 36\% | inMaxavgM | 2.81 | 5.8 | 5.8 |  |  |  | 25.20 |  |  | 1,246 |  | 13,381 13,474 | 11,399 | 1,230 1,230 |  |  | 1,246 | 13,381 13,474 | 11,399 | 1,230 <br> 1230 <br> 1 |
| 4/22/2015 | FALSE | FALSE | FALSE | 3.37 | 8.07 | 5.87 | 57\% | 42\% | 73\% |  | 1.37 | 5.8 | 5.8 | 296.00 | 258.00 | 0.87 |  | 14,491 | 12,631 |  |  | 13,474 | 11,604 | 1,230 | 14,491 | 12,631 |  | 13,474 | 11,604 | 1,230 <br> 1,230 <br> 1,25 |
| 4/23/2015 | ${ }_{\text {FALSE }}^{\text {FALSE }}$ | FALSE | TRUE TRUE | 3.36 3.39 | 8.08 7.95 | $\begin{aligned} & 5.90 \\ & 595 \end{aligned}$ | $57 \%$ | $42 \%$ | $\begin{aligned} & 73 \% \\ & 75 \% \end{aligned}$ |  | $1.37$ | $5.8$ | $\begin{aligned} & 5.8 \\ & 5.8 \end{aligned}$ |  |  |  |  |  |  |  |  | 13,649 13,649 | $11,604$ | 1,230 1,235 1 |  |  |  | 13,649 13,649 | 11,604 111,604 | 1,230 <br> 1,235 <br> 1 |
| 4/24/2015 <br> 4/25/2015 | FALSE | FALSE | TRUE TRUE | $\begin{aligned} & 3.39 \\ & 3.50 \end{aligned}$ | 7.95 8.42 | $\begin{aligned} & 5.95 \\ & 5.98 \end{aligned}$ | $57 \%$ | $\begin{aligned} & 43 \% \\ & 42 \% \\ & \hline \end{aligned}$ | $\begin{aligned} & 75 \% \\ & 71 \% \end{aligned}$ |  | $\begin{aligned} & 1.34 \\ & 1.41 \end{aligned}$ | $\begin{aligned} & 5.8 \\ & 5.9 \end{aligned}$ | $\begin{aligned} & 5.8 \\ & 5.8 \end{aligned}$ |  |  |  |  |  |  |  |  | 13,649 13,758 | $\begin{aligned} & 11,604 \\ & 11,697 \end{aligned}$ | $\begin{aligned} & 1,235 \\ & 1,235 \end{aligned}$ |  |  |  | 13,649 13,758 | 11,604 11,697 | 1,235 <br> 1,235 <br> 1,25 |
| 4/26/2015 | FALSE | FALSE | FALSE | 3.36 3.36 | 8.42 8.19 | 5.79 | 58\% | 41\% | 71\% |  | 1.41 | 5.9 | 5.8 |  |  |  |  |  |  |  |  | 13,758 | 11,697 | 1,235 |  |  |  | 13,758 | 11,697 | 1,235 1,235 1, |
| 4/27/2015 | FALSE | FALSE | FALSE | 3.37 3.37 | 8.39 | 6.03 | 56\% | 40\% | 72\% |  | 1.39 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 13,790 | 12,008 | 1,235 |  |  |  | 13,790 | 12,008 | 1,235 |
| 4/28/2015 | FALSE | FALSE | FALSE | 3.44 | 8.10 | 5.88 | 59\% | 42\% | 73\% |  | 1.38 | 5.9 | 5.9 |  |  |  | 23.19 |  |  | 1,137 |  | 13,790 | 12,008 | 1,215 |  |  | 1,137 | 13,790 | 12,008 | 1,215 |
| 4/29/2015 | FALSE | FALSE | FALSE | 3.38 | 8.03 | 5.83 | 58\% | 42\% | 73\% |  | 1.38 | 5.9 | 5.9 | 333.00 | 248.00 | 0.74 |  | 16,191 | 12,058 |  |  | 14,030 | 12,018 | 1,215 | 16,191 | 12,058 |  | 14,030 | 12,018 | 1,215 |
| 4/30/2015 | FALSE | FALSE | FALSE | 3.34 | 7.96 | 5.79 | 58\% | 42\% | 73\% |  | 1.37 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 14,362 | 12,018 | 1,215 |  |  |  | 14,362 | 12,018 | 1,215 |
| 5/1/2015 | FALSE | FALSE | FALSE | 3.46 | 7.88 | 5.87 | 59\% | 44\% | 74\% |  | 1.34 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 14,362 | 12,018 | 1,196 |  |  |  | 14,362 | 12,018 | 1,196 |
| 5/2/2015 | FALSE | FALSE | FALSE | 3.42 | 7.90 | 5.65 | 61\% | 43\% | 72\% |  | 1.40 | 5.8 | 5.9 |  |  |  |  |  |  |  |  | 14,367 | 11,552 | 1,196 |  |  |  | 14,367 | 11,552 | 1,196 |
| 5/3/2015 | FALSE | FALSE | FALSE | 3.34 | 8.01 | 5.60 | 60\% | 42\% | 70\% |  | 1.43 | 5.8 | 5.8 |  |  |  |  |  |  |  |  | 14,367 | 11,552 | 1,196 |  |  |  | 14,367 | 11,552 | 1,196 |
| 5/4/2015 | FALSE | FALSE | FALSE | 3.33 | 7.86 | 5.77 | 58\% | 42\% | 73\% |  | 1.36 | 5.8 | 5.8 |  |  |  |  |  |  |  |  | 14,385 | 11,552 | 1,196 |  |  |  | 14,385 | 11,552 | 1,196 |
| 5/5/2015 | FALSE | FALSE | false | 3.32 | 8.01 | 5.83 | 57\% | 41\% | 73\% |  | 1.37 | 5.8 | 5.8 |  |  |  |  |  |  |  |  | 14,385 | 11,552 | 1,196 |  |  |  | 14,385 | 11,552 | 1,196 |
| 5/6/2015 | FALSE | FALSE | FALSE | 3.38 | 8.09 | 5.80 | 58\% | 42\% | 72\% |  | 1.39 | 5.9 | 5.8 | 265.00 | 252.00 | 0.95 |  | 12,819 | 12,190 |  |  | 14,189 | 11,880 | 1,196 | 12,819 | 12,190 |  | 14,189 | 11,680 | 1,196 |
| 5/7/2015 | FALSE | FALSE | FALSE | 3.35 | 7.77 | 5.77 | 58\% | 43\% | 74\% |  | 1.35 | 5.9 | 5.8 |  |  |  |  |  |  |  |  | 13,685 | 11,880 | 1,196 |  |  |  | 13,685 | 11,680 | 1,196 |
| 5/8/2015 | FALSE | FALSE | FALSE | 3.44 | 7.71 | 5.81 | 59\% | 45\% | 75\% |  | 1.33 | 5.9 | 5.8 |  |  |  |  |  |  |  |  | 13,685 | 11,880 | 1,175 |  |  |  | 13,685 | 11,880 | 1,175 |
| 5/9/2015 | FALSE | FALSE | FALSE | 3.36 | 7.92 | 5.53 | 61\% | 42\% | 70\% |  | 1.43 | 5.8 | 5.7 |  |  |  |  |  |  |  |  | 13,733 | 11,868 | 1,175 |  |  |  | 13,733 | 11,868 | 1,175 |
| 5/10/2015 | FALSE | FALSE | FALSE | 3.32 | 8.21 | 5.50 | 60\% | 40\% | 67\% |  | 1.49 | 5.8 | 5.7 |  |  |  |  |  |  |  |  | 13,733 | 11,868 | 1,175 |  |  |  | 13,733 | 11,868 | 1,175 |
| 5/11/2015 | FALSE | FALSE | FALSE | 3.31 | 8.03 | 5.82 | 57\% | 41\% | 72\% |  | 1.38 | 5.8 | 5.7 |  |  |  |  |  |  |  |  | 13,733 | 11,868 | 1,175 |  |  |  | 13,733 | 11,868 | 1,175 |
| 5/12/2015 | FALSE | FALSE | FALSE | 3.32 | 7.87 | 5.74 | 58\% | 42\% | 73\% |  | 1.37 | 5.8 | 5.7 |  |  |  | 24.40 |  |  | 1,168 |  | 13,733 | 11,868 | 1,173 |  |  | 1,168 | 13,733 | 11,868 | 1,173 |
| 5/13/2015 | FALSE | FALSE | FALSE | 3.38 | 7.97 | 5.80 | 58\% | 42\% | 73\% |  | 1.37 | 5.8 | 5.7 | 287.00 | 229.00 | 0.80 |  | 13,883 | 11,077 |  |  | 13,754 | 11,710 | 1,173 | 13,883 | 11,077 |  | 13,754 | 11,710 | 1,173 |
| 5/14/2015 |  |  | FALSE | 3.26 | 7.82 | 5.82 | 56\% | 42\% | 74\% |  | 1.34 | 5.8 | 5.7 |  |  |  |  |  |  |  |  | 14,084 | 11,710 | 1,173 |  |  |  | 14,084 | 11,710 | 1,173 |


| Date | $\begin{aligned} & \text { Butte } \\ & \text { Break? } \end{aligned}$ | $\underset{\text { Break? }}{\text { csu }}$ | Precip? | $\begin{gathered} \text { Min } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | $\begin{aligned} & \text { Max } \\ & \text { Influent } \\ & \text { Flow, mgd F } \end{aligned}$ | $\begin{gathered} \text { Avg } \\ \text { Influent } \\ \text { How, mgd } \end{gathered}$ | Min \% of Avg | $\underset{\text { Max }}{\operatorname{Min}_{\text {Ma of }}}$ | Avg \% of Max | $\begin{aligned} & \text { Flow } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | $\begin{aligned} & \text { Diurnal } \\ & \text { Peak } \\ & \text { Factor } \\ & \text { (DPF) } \end{aligned}$ | $\begin{gathered} \text { 30-d Avg } \\ \text { of Avg } \\ \text { Flow, mgd } \end{gathered}$ | 7-d Avg of <br> Avg Flow, mgd | Influent TSS Conc., mg/L | Influent BOD Conc., mg/L | $\begin{aligned} & \text { BOD/TSS } \\ & \text { Ratio } \end{aligned}$ | Influent NH3-N Conc., mg/L | Avg Inf TSS Load, ppd | Avg Inf BOD Load, ppd | Avg Inf NH3 Load, ppd | $\begin{aligned} & \text { Load } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | 30-d Avg of TSS Load, ppd | 30-d Avg of BOD Load, ppd | 30-d Avg of NH3-N Load, ppd | non-SN TSS Load, ppd | non-SN BOD Load, ppd | non-SN NH3 Load, ppd | 30-d Avg <br> of non-SN TSS Load, ppd | 30-d Avg of non-SN BOD Load, ppd | $\begin{aligned} & \text { 30-d Avg } \\ & \text { of non-SN } \\ & \text { NH3-N } \\ & \text { Load, ppd } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5/15/2015 | FALSE | FALSE | FALSE | 3.48 | 8.03 | 5.96 | 58\% | 43\% | 74\% |  | 1.35 | 5.8 | 5.7 |  |  |  |  |  |  |  |  | 14,084 | 11,710 | 1,184 |  |  |  | 14,084 | 11,710 | 1,184 |
| 5/16/2015 | FALSE | FALSE | false | 3.43 | 8.04 | 5.66 | 61\% | 43\% | 70\% |  | 1.42 | 5.8 | 5.7 |  |  |  |  |  |  |  |  | 14,095 | 11,989 | 1,184 |  |  |  | 14,095 | 11,989 | 1,184 |
| 5/17/2015 | FALSE | true | FALSE | 3.35 | 7.91 | 5.57 | 60\% | 42\% | 70\% |  | 1.42 | 5.8 | 5.7 |  |  |  |  |  |  |  |  | 14,095 | 11,989 | 1,184 |  |  |  | 14,095 | 11,989 | 1,184 |
| 5/18/2015 | FALSE | true | false | 3.38 | 8.24 | 5.56 | 61\% | 41\% | 67\% |  | 1.48 | 5.8 | 5.7 |  |  |  |  |  |  |  |  | 14,346 | 11,989 | 1,184 |  |  |  | 14,346 | 11,989 | 1,184 |
| 5/19/2015 | FALSE | true | FALSE | 3.40 | 7.10 | 5.51 | 62\% | 48\% | 78\% |  | 1.29 | 5.8 | 5.7 |  |  |  | 26.00 |  |  | 1,195 |  | 14,346 | 11,989 | 1,187 |  |  | 1,195 | 14,346 | 11,989 | 1,187 |
| 5/20/2015 | FALSE | true | false | 3.42 | 7.18 | 5.50 | 62\% | 48\% | 77\% |  | 1.31 | 5.8 | 5.7 | 259.00 | 278.00 | 1.07 |  | 11,880 | 12,752 |  |  | 13,853 | 12,142 | 1,187 | 11,880 | 12,752 |  | 13,853 | 12,142 | 1,187 |
| 5/21/2015 | FALSE | TRUE | FALSE | 3.38 | 7.16 | 5.50 | 61\% | 47\% | 77\% |  | 1.30 | 5.8 | 5.6 |  |  |  |  |  |  |  |  | 13,853 | 12,142 | 1,187 |  |  |  | 13,853 | 12,142 | 1,187 |
| 5/22/2015 | FALSE | true | false | 3.42 | 6.87 | 5.42 | 63\% | 50\% | 79\% |  | 1.27 | 5.7 | 5.6 |  |  |  |  |  |  |  |  | 13,853 | 12,142 | 1,167 |  |  |  | 13,853 | 12,142 | 1,167 |
| 5/23/2015 | FALSE | true | FALSE | 3.43 | 7.45 | 5.24 | 65\% | 46\% | 70\% |  | 1.42 | 5.7 | 5.5 |  |  |  |  |  |  |  |  | 13,693 | 12,019 | 1,167 |  |  |  | 13,693 | 12,019 | 1,167 |
| 5/24/2015 | FALSE | true | false | 3.37 | 7.07 | 4.98 | 68\% | 48\% | 70\% |  | 1.42 | 5.7 | 5.4 |  |  |  |  |  |  |  |  | 13,693 | 12,019 | 1,167 |  |  |  | 13,693 | 12,019 | 1,167 |
| 5/25/2015 | FALSE | true | FALSE | 3.33 | 7.38 | 5.15 | 65\% | 45\% | 70\% |  | 1.43 | 5.7 | 5.4 |  |  |  |  |  |  |  |  | 13,693 | 12,019 | 1,167 |  |  |  | 13,693 | 12,019 | 1,167 |
| 5/26/2015 | FALSE | true | FALSE | 3.36 | 7.00 | 5.35 | 63\% | 48\% | 76\% |  | 1.31 | 5.6 | 5.3 |  |  |  |  |  |  |  |  | 13,693 | 12,019 | 1,167 |  |  |  | 13,693 | 12,019 | 1,167 |
| 5/27/2015 | FALSE | true | FALSE | 3.43 | 7.08 | 5.41 | 63\% | 48\% | 76\% |  | 1.31 | 5.6 | 5.3 | 276.00 | 201.00 | 0.73 |  | 12,453 | 9,069 |  |  | 13,445 | 11,429 | 1,167 | 12,453 | 9,069 |  | 13,445 | 11,429 | 1,167 |
| 5/28/2015 | FALSE | true | FALSE | 3.42 | 6.90 | 5.27 | 65\% | 50\% | 76\% |  | 1.31 | 5.6 | 5.3 |  |  |  |  |  |  |  |  | 13,445 | 11,429 | 1,167 |  |  |  | 13,445 | 11,429 | 1,167 |
| 5/29/2015 | TRUE | true | false | 3.42 | 6.97 | 5.32 | 64\% | 49\% | 76\% |  | 1.31 | 5.6 | 5.3 |  |  |  | 23.42 |  |  | 1,039 |  | 13,445 | 11,429 | 1,134 |  |  | 1,039 | 13,445 | 11,429 | 1,134 |
| 5/30/2015 | true | true | false | 3.43 | 7.15 | 5.14 | 67\% | 48\% | 72\% |  | 1.39 | 5.6 | 5.2 |  |  |  |  |  |  |  |  | 12,759 | 11,272 | 1,134 |  |  |  | 12,759 | 11,272 | 1,134 |
| 5/31/2015 | TRUE | true | FALSE | 3.33 | 6.95 | 5.09 | 65\% | 48\% | 73\% |  | 1.37 | 5.5 | 5.2 |  |  |  |  |  |  |  |  | 12,759 | 11,272 | 1,134 |  |  |  | 12,759 | 11,272 | 1,134 |
| 6/1/2015 | true | true | false | 3.33 | 6.95 | 5.09 | 65\% | 48\% | 73\% |  | 1.37 | 5.5 | 5.2 |  |  |  |  |  |  |  |  | 12,759 | 11,272 | 1,134 |  |  |  | 12,759 | 11,272 | 1,134 |
| 6/2/2015 | TRUE | True | FALSE | 2.01 | 6.89 | 5.28 | 38\% | 29\% | 77\% | MinAvg | 1.30 | 5.5 | 5.2 |  |  |  | 24.44 |  |  | 1,076 |  | 12,759 | 11,272 | 1,120 |  |  | 1,076 | 12,759 | 11,272 | 1,120 |
| 6/3/2015 | TRUE | true | FALSE | 3.42 | 6.82 | 5.31 | 64\% | 50\% | 78\% |  | 1.28 | 5.5 | 5.2 | 278.00 | 259.00 | 0.93 |  | 12,311 | 11,470 |  |  | 12,669 | 11,312 | 1,120 | 12,311 | 11,470 |  | 12,669 | 11,312 | 1,120 |
| 6/4/2015 | TRUE | true | FALSE | 3.35 | 6.70 | 5.29 | 63\% | 50\% | 79\% |  | 1.27 | 5.5 | 5.2 |  |  |  |  |  |  |  |  | 12,669 | 11,312 | 1,120 |  |  |  | 12,669 | 11,312 | 1,120 |
| 6/5/2015 | true | true | true | 3.45 | 6.48 | 5.17 | 67\% | 53\% | 80\% |  | 1.25 | 5.5 | 5.2 |  |  |  |  |  |  |  |  | 12,669 | 11,312 | 1,120 |  |  |  | 12,669 | 11,312 | 1,120 |
| 6/6/2015 | TRUE | true | FALSE | 3.42 | 6.96 | 5.10 | 67\% | 49\% | 73\% |  | 1.36 | 5.4 | 5.2 |  |  |  |  |  |  |  |  | 12,632 | 11,092 | 1,120 |  |  |  | 12,632 | 11,092 | 1,120 |
| 6/7/2015 | TRUE | True | FALSE | 3.37 | 6.67 | 4.97 | 68\% | 51\% | 75\% |  | 1.34 | 5.4 | 5.1 |  |  |  |  |  |  |  |  | 12,632 | 11,092 | 1,120 |  |  |  | 12,632 | 11,092 | 1,120 |
| 6/8/2015 | TRUE | true | false | 3.41 | 6.74 | 5.15 | 66\% | 51\% | 76\% |  | 1.31 | 5.4 | 5.2 |  |  |  |  |  |  |  |  | 12,632 | 11,092 | 1,120 |  |  |  | 12,632 | 11,092 | 1,120 |
| 6/9/2015 | TRUE | true | FALSE | 3.38 | 6.55 | 5.18 | 65\% | 52\% | 79\% |  | 1.26 | 5.4 | 5.2 |  |  |  |  |  |  |  |  | 12,632 | 11,092 | 1,120 |  |  |  | 12,632 | 11,092 | 1,120 |
| 6/10/2015 | TRUE | true | FALSE | 3.39 | 6.55 | 5.28 | 64\% | 52\% | 81\% |  | 1.24 | 5.4 | 5.2 | 178.00 | 120.00 | 0.67 |  | 7,838 | 5,284 |  |  | 11,673 | 9,930 | 1,120 | 7,838 | 5,284 |  | 11,673 | 9,930 | 1,120 |
| 6/11/2015 | TRUE | True | false | 3.44 | 6.43 | 5.20 | 66\% | 53\% | 81\% |  | 1.24 | 5.4 | 5.2 |  |  |  | 27.25 |  |  | 1,182 |  | 11,673 | 9,930 | 1,132 |  |  | 1,182 | 11,673 | 9,930 | 1,132 |
| 6/12/2015 | TRUE | TRUE | FALSE | 3.50 | 6.41 | 5.10 | 69\% | 55\% | 80\% |  | 1.26 | 5.3 | 5.1 |  |  |  |  |  |  |  |  | 11,673 | 9,930 | 1,123 |  |  |  | 11,673 | 9,930 | 1,123 |
| 6/13/2015 | TRUE | true | false | 3.50 | 6.43 | 4.95 | 71\% | 54\% | 77\% | MinAvg | 1.30 | 5.3 | 5.1 |  |  |  |  |  |  |  |  | 11,121 | 9,644 | 1,123 |  |  |  | 11,121 | 9,644 | 1,123 |
| 6/14/2015 | TRUE | TRUE | FALSE | 3.39 | 6.43 | 4.96 | 68\% | 53\% | 77\% |  | 1.30 | 5.3 | 5.1 |  |  |  |  |  |  |  |  | 11,121 | 9,644 | 1,123 |  |  |  | 11,121 | 9,644 | 1,123 |
| 6/15/2015 | TRUE | true | false | 3.40 | 6.46 | 5.16 | 66\% | 53\% | 80\% |  | 1.25 | 5.3 | 5.1 |  |  |  |  |  |  |  |  | 11,121 | 9,644 | 1,123 |  |  |  | 11,121 | 9,644 | 1,123 |
| 6/16/2015 | TRUE | TRUE | FALSE | 3.51 | 6.34 | 5.20 | 68\% | 55\% | 82\% | MinMax | 1.22 | 5.2 | 5.1 |  |  |  |  |  |  |  |  | 11,121 | 9,644 | 1,123 |  |  |  | 11,121 | 9,644 | 1,123 |
| 6/17/2015 | TRUE | true | FALSE | 3.52 | 6.51 | 5.24 | 67\% | 54\% | 80\% |  | 1.24 | 5.2 | 5.2 | 250.00 | 216.00 | 0.86 |  | 10,925 | 9,440 |  |  | 11,082 | 9,603 | 1,123 | 10,925 | 9,440 |  | 11,082 | 9,603 | 1,123 |
| 6/18/2015 | TRUE | true | FALSE | 3.41 | 6.49 | 5.19 | 66\% | 53\% | 80\% |  | 1.25 | 5.2 | 5.1 |  |  |  | 25.89 |  |  | 1,121 |  | 11,082 | 9,603 | 1,123 |  |  | 1,121 | 11,082 | 9,603 | 1,123 1 1 1 |
| 6/19/2015 | True | true | FALSE | 3.48 | 6.33 | 5.19 | 67\% | 55\% | 82\% | MinMax | 1.22 | 5.2 | 5.1 |  |  |  |  |  |  |  |  | 11,082 | 9,603 | 1,104 |  |  |  | 11,082 | 9,603 | 1,104 |
| 6/20/2015 | TRUE | TRUE | FALSE | 3.47 | 6.49 | 5.02 | 69\% | 53\% | 77\% |  | 1.29 | 5.2 | 5.1 |  |  |  |  |  |  |  |  | 10,882 | 8,816 | 1,104 |  |  |  | 10,882 | 8,816 | 1,104 |
| 6/21/2015 | True | true | FALSE | 3.40 | 6.52 | 4.98 | 68\% | 52\% | 76\% |  | 1.31 | 5.2 | 5.1 |  |  |  |  |  |  |  |  | 10,882 | 8,816 | 1,104 |  |  |  | 10,882 | 8,816 | 1,104 |
| 6/22/2015 | TRUE | true | FALSE | 3.45 | 6.55 | 5.23 | 66\% | 53\% | 80\% |  | 1.25 | 5.2 | 5.1 |  |  |  | 27.92 |  |  | 1,218 |  | 10,882 | 8,816 | 1,127 |  |  | 1,218 | 10,882 | 8,816 | 1,127 |
| 6/23/2015 | True | true | FALSE | 3.50 | 6.47 | 5.21 | 67\% | 54\% | 81\% |  | 1.24 | 5.2 | 5.1 |  |  |  |  |  |  |  |  | 10,882 | 8,816 | 1,127 |  |  |  | 10,882 | 8,816 | 1,127 |
| 6/24/2015 | TRUE | True | FALSE | 3.52 | 6.74 | 5.26 | 67\% | 52\% | 78\% |  | 1.28 | 5.2 | 5.2 | 301.00 | 252.00 | 0.84 |  | 13,204 | 11,055 |  |  | 11,346 | 9,264 | ${ }_{1,127}^{1,127}$ | 13,204 | 11,055 |  | 11,346 | 9,264 | 1,127 |
| 6/25/2015 | TRUE | true | FALSE | 3.53 | 6.50 | 5.26 | 67\% | 54\% | 81\% |  | 1.24 | 5.2 | 5.2 |  |  |  |  |  |  |  |  | 11,346 | 9,264 | 1,127 |  |  |  | 11,346 | 9,264 | 1,127 |
| 6/26/2015 | TRUE | TRUE | FALSE | 3.54 | 6.53 | 5.19 | 68\% | 54\% | 79\% |  | 1.26 | 5.2 | 5.2 |  |  |  |  |  |  |  |  | 11,346 | 9,264 | 1,127 |  |  |  | 11,346 | 9,264 | 1,127 |
| 6/27/2015 | TRUE | true | FALSE | 3.50 | 6.48 | 5.05 | 69\% | 54\% | 78\% |  | 1.28 | 5.2 | 5.2 |  |  |  |  |  |  |  |  | 11,070 | 9,312 | 1,127 |  |  |  | 11,070 | 9,312 | 1,127 |
| 6/28/2015 | TRUE | TRUE | FALSE | 3.45 | 6.64 | 4.99 | 69\% | 52\% | 75\% |  | 1.33 | 5.2 | 5.1 |  |  |  |  |  |  |  |  | 11,070 | 9,312 | 1,127 1,1137 |  |  |  | 111070 | 9,312 | 1,127 1,137 |
| 6/29/2015 | TRUE | true | FALSE | 3.45 | 6.32 | 5.12 | 67\% | 55\% | 81\% |  | 1.23 | 5.1 | 5.2 |  |  |  | 25.52 |  |  | 1,090 |  | 11,070 | 9,312 | 1,137 |  |  | 1,090 | 11,070 | 9,312 | 1,137 |
| 6/30/2015 | TRUE | True | FALSE | 3.40 | 6.27 | 5.09 | 67\% | 54\% | 81\% |  | 1.23 | 5.1 | 5.1 |  |  |  |  |  |  |  |  | 11,070 | 9,312 | 1,137 |  |  |  | 11,070 | 9,312 | 1,137 |
| 7/1/2015 | true | true | false | 3.55 | 6.55 | 5.19 | 68\% | 54\% | 79\% |  | 1.26 | 5.1 | 5.1 | 255.00 | 178.00 | 0.70 |  | 11,038 | 7,705 |  |  | 11,063 | 8,991 | 1,137 | 11,038 | 7,705 |  | 11,063 | 8,991 | 1,137 |
| 7/2/2015 | TRUE | TRUE | FALSE | 3.43 | 6.47 | 5.10 | 67\% | 53\% | 79\% |  | 1.27 | 5.1 | 5.1 |  |  |  |  |  |  |  |  | 11,063 | 8,991 | 1,137 |  |  |  | 11,063 | 8,991 | 1,137 |
| 7/3/2015 | true | true | false | 3.45 | 6.85 | 5.05 | 68\% | 50\% | 74\% |  | 1.36 | 5.1 | 5.1 |  |  |  |  |  |  |  |  | 11,063 | 8,991 | 1,152 |  |  |  | 11,063 | 8,991 | 1,152 |
| 7/4/2015 | TRUE | true | FALSE | 3.44 | 6.13 | 4.71 | 73\% | 56\% | 77\% | inAvgMinM | 1.30 | 5.1 | 5.1 |  |  |  |  |  |  |  |  | 10,751 | 8,371 | 1,152 |  |  |  | 10,751 | 8,371 | 1,152 |
| 7/5/2015 | true | true | FALSE | 3.34 | 6.16 | 4.75 | 70\% | 54\% | 77\% | MinAvg | 1.30 | 5.1 | 5.1 |  |  |  |  |  |  |  |  | 10,751 | 8,371 | 1,152 |  |  |  | 10,751 | 8,371 | 1,152 |
| 7/6/2015 | TRUE | true | FALSE | 3.41 | 6.56 | 5.22 | 65\% | 52\% | 80\% |  | 1.26 | 5.1 | 5.1 |  |  |  |  |  |  |  |  | 10,751 | 8,371 | 1,152 |  |  |  | 10,751 | 8,371 | 1,152 |
| 7/7/2015 | TRUE | TRUE | FALSE | 3.22 | 6.49 | 5.18 | 62\% | 50\% | 80\% |  | 1.25 | 5.1 | 5.1 |  |  |  |  |  |  |  |  | 10,751 | 8,371 | 1,152 |  |  |  | 10,751 | 8,371 | 1,152 |
| 7/8/2015 | TRUE | TrUE | FALSE | 3.39 | 6.52 | 5.21 | 65\% | 52\% | 80\% |  | 1.25 | 5.1 | 5.2 | 248.00 | 193.00 | 0.78 |  | 10,76 | 8,386 |  |  | 10,756 | 8,374 | 1,152 | 10,776 | 8,386 |  | 10,756 | 8,374 | 1,152 |
| 7/9/2015 | TRUE | true | TRUE | 3.34 | 6.78 | 5.25 | 64\% | 49\% | 77\% |  | 1.29 | 5.2 | 5.2 |  |  |  | 30.45 |  |  | 1,333 |  | 10,756 | 8,374 | 1,189 |  |  | 1,333 | 10,756 | 8,374 | 1,189 |
| 7/10/2015 | TRUE | true | FALSE | 3.31 | 6.93 | 5.24 | 63\% | 48\% | 76\% |  | 1.32 | 5.2 | 5.2 |  |  |  |  |  |  |  |  | 10,756 | 8,374 | 1,189 |  |  |  | 10,756 | 8,374 | 1,189 |
| 7/11/2015 | TRUE | true | FALSE | 3.43 | 6.55 | 5.00 | 69\% | 52\% | 76\% |  | 1.31 | 5.1 | 5.2 |  |  |  |  |  |  |  |  | 11,486 | 9,146 | 1,189 |  |  |  | 11,486 | 9,146 | 1,189 |
| 7/12/2015 | TRUE | TrUE | FALSE | 3.43 | 6.52 | 4.94 | 69\% | 53\% | 76\% | MinAvg | 1.32 | 5.1 | 5.2 |  |  |  |  |  |  |  |  | 11,486 | 9,146 | 1,190 |  |  |  | 11,486 | 9,146 | 1,190 |
| 7/13/2015 | TRUE | true | FALSE | 2.21 | 6.47 | 5.12 | 43\% | 34\% | 79\% |  | 1.26 | 5.1 | 5.2 |  |  |  |  |  |  |  |  | 11,486 | 9,146 | 1,190 |  |  |  | 11,486 | 9,146 | 1,190 |
| 7/14/2015 | TRUE | TRUE | FALSE | 3.27 | 6.54 | 5.16 | 63\% | 50\% | 79\% |  | 1.27 | 5.1 | 5.2 |  |  |  |  |  |  |  |  | 11,486 | 9,146 | 1,190 |  |  |  | 11,486 | 9,146 | 1,190 |
| 7/15/2015 | TRUE | true | FALSE | 3.28 | 6.40 | 5.18 | 63\% | 51\% | 81\% |  | 1.24 | 5.1 | 5.2 | 272.00 | 225.00 | 0.83 |  | 11,751 | 9,720 |  |  | 11,539 | 9,261 | 1,190 | 11,751 | 9,720 |  | 11,539 | 9,261 | 1,190 |
| 7/16/2015 | TRUE | true | FALSE | 3.42 | 6.42 | 5.14 | 67\% | 53\% | 80\% |  | 1.25 | 5.1 | 5.2 |  |  |  | 26.87 |  |  | 1,152 |  | 11,539 | 9,261 | 1,183 |  |  | 1,152 | 11,539 | 9,261 | 1,183 |



| Date | $\begin{aligned} & \text { Butte } \\ & \text { Break? } \end{aligned}$ | $\begin{gathered} \text { csu } \\ \text { Break? } \end{gathered}$ | Precip? | $\min _{\substack{\text { Influent } \\ \text { Flow, mgd }}}$ |  | Avg Flow, mgd | $\underset{\text { Avg }}{\operatorname{Min} \% \text { of }}$ | Min \% of Max | Avg \% of Max | $\begin{aligned} & \text { Flow } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | $\begin{aligned} & \text { Diurnal } \\ & \text { Peakk } \\ & \text { Factor } \\ & \text { (DPF) } \end{aligned}$ | 30-d Avg Flow, mgd | 7-d Avg of Avg Flow, mgd | Influent TSS Conc., mg/L | $\begin{gathered} \text { Influent } \\ \text { BoD } \\ \text { Conc., } \\ \mathrm{mg} / \mathrm{L} \end{gathered}$ | BOD/TSS Ratio | Influent NH3-N Conc., mg/L | Avg Inf TSS Load, ppd | Avg Inf BOD Load ppd | Avg Inf NH3 Load, ppd | $\begin{gathered} \text { Load } \\ \text { Outlier } \\ \text { Type } \end{gathered}$ | 30-d Avg of TSS Load, ppd | 30-d Avg of BOD Load, ppd | 30-d Avg of NH3-N Load, ppd | Hon-SN ppd | non-SN ppd | non-SN NH3 Load, ppd | $\begin{gathered} \text { 30-d Avg } \\ \text { of non-SN } \\ \text { TSS Load, } \\ \text { ppd } \end{gathered}$ | $\begin{gathered} \text { 30-d Avg } \\ \text { of non-SN } \\ \text { BOD Load, } \\ \text { ppd } \end{gathered}$ | $\begin{aligned} & \text { 30-d Avg } \\ & \text { of non-SN } \\ & \text { NH3-N } \\ & \text { Load, ppd } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 9/18/2015 | FALSE | FALSE | FALSE | 3.25 | 13.97 | 5.78 | 56\% | 23\% | 41\% | inMaxAvgM | 2.42 | 5.6 | 5.7 |  |  |  |  |  |  |  |  | 13,685 | 10,240 | 1,356 |  |  |  | 13,593 | 10,217 | 1,356 |
| 9/19/2015 | FALSE | FALSE | FALSE | 3.43 | 7.80 | 5.51 | 62\% | 44\% | 71\% |  | 1.42 | 5.6 | 5.7 |  |  |  |  |  |  |  |  | 13,561 | 10,090 | 1,356 |  |  |  | 13,445 | 10,062 | 1,356 |
| 9/20/2015 | FALSE | FALSE | false | 3.32 | 8.22 | 5.50 | 60\% | 40\% | 67\% |  | 1.49 | 5.6 | 5.7 |  |  |  |  |  |  |  |  | 13,561 | 10,090 | 1,370 |  |  |  | 13,445 | 10,062 | 1,370 |
| 9/21/2015 | FALSE | FALSE | FALSE | 3.35 | 8.01 | 5.67 | 59\% | 42\% | 71\% |  | 1.41 | 5.6 | 5.7 |  |  |  |  |  |  |  |  | 13,561 | 10,090 | 1,370 |  |  |  | 13,445 | 10,062 | 1,370 |
| 9/22/2015 | FALSE | FALSE | false | 3.34 | 13.06 | 5.70 | 59\% | 26\% | 44\% | AvgMax | 2.29 | 5.6 | 5.6 |  |  |  |  |  |  |  |  | 13,561 | 10,090 | 1,370 |  |  |  | 13,445 | 10,062 | 1,370 |
| 9/23/2015 | FALSE | FALSE | FALSE | 3.43 | 13.55 | 5.67 | 60\% | 25\% | 42\% | AvgMax | 2.39 | 5.6 | 5.6 | 257.00 | 251.00 | 0.98 |  | 12,153 | 11,869 |  |  | 13,279 | 10,446 | 1,370 | 12,153 | 11,869 |  | 13,186 | 10,423 | 1,370 |
| 9/24/2015 | FALSE | FALSE | false | 3.40 | 8.20 | 5.61 | 61\% | 41\% | 68\% |  | 1.46 | 5.6 | 5.6 |  |  |  |  |  |  |  |  | 13,279 | 10,446 | 1,370 |  |  |  | 13,186 | 10,423 | 1,370 |
| 9/25/2015 | FALSE | FALSE | FALSE | 3.47 | 7.84 | 5.56 | 62\% | 44\% | 71\% |  | 1.41 | 5.6 | 5.6 |  |  |  |  |  |  |  |  | 13,279 | 10,446 | 1,370 |  |  |  | 13,186 | 10,423 | 1,370 |
| 9/26/2015 | FALSE | False | false | 3.30 | 7.78 | 5.34 | 62\% | 42\% | 69\% |  | 1.46 | 5.6 | 5.5 |  |  |  |  |  |  |  |  | 13,810 | 10,339 | 1,370 |  |  |  | 13,810 | 10,339 | 1,370 |
| 9/27/2015 | false | FALSE | false | 3.36 | 13.88 | 5.53 | 61\% | 24\% | 40\% | inMaxAvgM | 2.51 | 5.6 | 5.5 |  |  |  |  |  |  |  |  | 13,810 | 10,339 | 1,368 |  |  |  | 13,810 | 10,339 | 1,368 |
| 9/28/2015 | FALSE | FALSE | false | 3.32 | 8.03 | 5.52 | 60\% | 41\% | 69\% |  | 1.45 | 5.6 | 5.5 |  |  |  |  |  |  |  |  | 13,810 | 10,339 | 1,368 |  |  |  | 13,810 | 10,339 | 1,368 |
| 9/29/2015 | FALSE | FALSE | false | 3.19 | 13.78 | 5.60 | 57\% | 23\% | 41\% | inMaxAvgM | 2.46 | 5.6 | 5.5 |  |  |  | 33.13 |  |  | 1,547 |  | 13,810 | 10,339 | 1,413 |  |  | 1,547 | 13,810 | 10,339 | 1,413 |
| 9/30/2015 | FALSE | FALSE | FALSE | 3.40 | 8.44 | 5.73 | 59\% | 40\% | 68\% |  | 1.47 | 5.6 | 5.6 |  |  |  |  |  |  |  |  | 13,810 | 10,339 | 1,413 |  |  |  | 13,810 | 10,339 | 1,413 |
| 10/1/2015 | FALSE | FALSE | true | 3.36 | 13.19 | 5.67 | 59\% | 25\% | 43\% | AvgMax | 2.33 | 5.6 | 5.6 |  |  |  |  |  |  |  |  | 13,810 | 10,339 | 1,413 |  |  |  | 13,810 | 10,339 | 1,413 |
| 10/2/2015 | FALSE | FALSE | false | 3.33 | 8.02 | 5.77 | 58\% | 42\% | 72\% |  | 1.39 | 5.6 | 5.6 | 252.00 | 345.00 | 1.37 |  | 12,127 | 16,602 |  |  | 13,473 | 11,591 | 1,413 | 12,127 | 16,602 |  | 13,473 | 11,591 | 1,413 |
| 10/3/2015 | FALSE | FALSE | false | 3.41 | 8.23 | 5.52 | 62\% | 41\% | 67\% |  | 1.49 | 5.6 | 5.6 |  |  |  |  |  |  |  |  | 13,562 | 12,457 | 1,413 |  |  |  | 13,562 | 12,457 | 1,413 |
| 10/4/2015 | FALSE | FALSE | FALSE | 3.36 | 8.57 | 5.55 | 61\% | 39\% | 65\% |  | 1.54 | 5.6 | 5.6 |  |  |  |  |  |  |  |  | 13,562 | 12,457 | 1,453 |  |  |  | 13,562 | 12,457 | 1,453 |
| 10/5/2015 | FALSE | FALSE | false | 3.40 | 13.90 | 5.75 | 59\% | 24\% | 41\% | inMaxAvgM | 2.42 | 5.6 | 5.6 |  |  |  |  |  |  |  |  | 13,562 | 12,457 | 1,453 |  |  |  | 13,562 | 12,457 | 1,453 |
| 10/6/2015 | FALSE | FALSE | FALSE | 3.37 | 8.31 | 5.67 | 59\% | 41\% | 68\% |  | 1.47 | 5.6 | 5.6 |  |  |  |  |  |  |  |  | 13,562 | 12,457 | 1,453 |  |  |  | 13,562 | 12,457 | 1,453 |
| 10/7/2015 | FALSE | FALSE | false | 3.38 | 8.12 | 5.70 | 59\% | 42\% | 70\% |  | 1.42 | 5.6 | 5.7 | 279.00 | 232.00 | 0.83 |  | 13,263 | 11,029 |  |  | 13,502 | 12,171 | 1,453 | 13,263 | 11,029 |  | 13,502 | 12,171 | 1,453 |
| 10/8/2015 | FALSE | FALSE | false | 3.34 | 8.34 | 5.72 | 58\% | 40\% | 69\% |  | 1.46 | 5.6 | 5.7 |  |  |  | 28.20 |  |  | 1,345 |  | 13,502 | 12,171 | 1,426 |  |  | 1,345 | 13,502 | 12,171 | 1,426 |
| 10/9/2015 | FALSE | FALSE | false | 3.44 | 8.16 | 5.74 | 60\% | 42\% | 70\% |  | 1.42 | 5.6 | 5.7 |  |  |  |  |  |  |  |  | 13,502 | 12,171 | 1,426 |  |  |  | 13,502 | 12,171 | 1,426 |
| 10/10/2015 | FALSE | FALSE | false | 3.42 | 8.43 | 5.52 | 62\% | 41\% | 65\% |  | 1.53 | 5.6 | 5.6 |  |  |  |  |  |  |  |  | 13,502 | 12,171 | 1,426 |  |  |  | 13,502 | 12,171 | 1,426 |
| 10/11/2015 | FALSE | FALSE | FALSE | 3.38 | 8.30 | 5.51 | 61\% | 41\% | 66\% |  | 1.51 | 5.6 | 5.6 |  |  |  |  |  |  |  |  | 13,390 | 13,153 | 1,426 |  |  |  | 13,390 | 13,153 | 1,426 |
| 10/12/2015 | FALSE | FALSE | FALSE | 3.38 | 8.39 | 5.69 | 59\% | 40\% | 68\% |  | 1.47 | 5.6 | 5.7 |  |  |  |  |  |  |  |  | 13,390 | 13,153 | 1,468 |  |  |  | 13,390 | 13,153 | 1,468 |
| 10/13/2015 | FALSE | FALSE | FALSE | 3.35 | 8.18 | 5.67 | 59\% | 41\% | 69\% |  | 1.44 | 5.6 | 5.7 |  |  |  |  |  |  |  |  | 13,390 | 13,153 | 1,468 |  |  |  | 13,390 | 13,153 | 1,468 |
| 10/14/2015 | FALSE | FALSE | FALSE | 3.40 | 8.66 | 5.67 | 60\% | 39\% | 65\% |  | 1.53 | 5.6 | 5.7 | 236.00 | 174.00 | 0.74 |  | 11,160 | 8,228 |  |  | 12,944 | 12,168 | 1,468 | 11,160 | 8,228 |  | 12,944 | 12,168 | 1,468 |
| 10/15/2015 | FALSE | FALSE | false | 3.36 | 8.11 | 5.63 | 60\% | 41\% | 69\% |  | 1.44 | 5.6 | 5.6 |  |  |  | 32.30 |  |  | 1,517 |  | 12,944 | 12,168 | 1,480 |  |  | 1,517 | 12,944 | 12,168 | 1,480 |
| 10/16/2015 | FALSE | FALSE | FALSE | 3.36 | 8.15 | 5.66 | 59\% | 41\% | 69\% |  | 1.44 | 5.6 | 5.6 |  |  |  |  |  |  |  |  | 12,944 | 12,168 | 1,480 |  |  |  | 12,944 | 12,168 | 1,480 |
| 10/17/2015 | FALSE | FALSE | true | 3.35 | 8.50 | 5.54 | 60\% | 39\% | 65\% |  | 1.53 | 5.6 | 5.6 |  |  |  |  |  |  |  |  | 12,176 | 11,932 | 1,480 |  |  |  | 12,176 | 11,932 | 1,480 |
| 10/18/2015 | FALSE | FALSE | FALSE | 3.33 | 8.66 | 5.59 | 60\% | 38\% | 65\% |  | 1.55 | 5.6 | 5.6 |  |  |  |  |  |  |  |  | 12,176 | 11,932 | 1,470 |  |  |  | 12,176 | 11,932 | 1,470 |
| 10/19/2015 | FALSE | FALSE | true | 3.40 | 13.70 | 5.78 | 59\% | 25\% | 42\% | inMaxAvgM | 2.37 | 5.6 | 5.6 |  |  |  |  |  |  |  |  | 12,176 | 11,932 | 1,470 |  |  |  | 12,176 | 11,932 | 1,470 |
| 10/20/2015 | FALSE | FALSE | FALSE | 3.36 | 8.49 | 5.70 | 59\% | 40\% | 67\% |  | 1.49 | 5.6 | 5.6 |  |  |  |  |  |  |  |  | 12,176 | 11,932 | 1,470 |  |  |  | 12,176 | 11,932 | 1,470 |
| 10/21/2015 | FALSE | FALSE | FALSE | 3.38 | 8.52 | 5.75 | 59\% | 40\% | 67\% |  | 1.48 | 5.6 | 5.6 | 281.00 | 236.00 | 0.84 |  | 13,475 | 11,317 |  |  | 12,436 | 11,809 | 1,470 | 13,475 | 11,317 |  | 12,436 | 11,809 | 1,470 |
| 10/22/2015 | FALSE | FALSE | FALSE | 3.36 | 8.17 | 5.69 | 59\% | 41\% | 70\% |  | 1.44 | 5.6 | 5.7 |  |  |  |  |  |  |  |  | 12,436 | 11,809 | 1,470 |  |  |  | 12,436 | 11,809 | 1,470 |
| 10/23/2015 | FALSE | FALSE | false | 3.40 | 8.24 | 5.73 | 59\% | 41\% | 70\% |  | 1.44 | 5.6 | 5.7 |  |  |  |  |  |  |  |  | 12,436 | 11,809 | 1,470 |  |  |  | 12,436 | 11,809 | 1,470 |
| 10/24/2015 | FALSE | FALSE | FALSE | 3.35 | 8.72 | 5.54 | 60\% | 38\% | 64\% |  | 1.57 | 5.6 | 5.6 |  |  |  |  |  |  |  |  | 12,506 | 11,794 | 1,470 |  |  |  | 12,506 | 11,794 | 1,470 |
| 10/25/2015 | FALSE | FALSE | false | 3.35 | 8.63 | 5.57 | 60\% | 39\% | 65\% |  | 1.55 | 5.6 | 5.7 |  |  |  |  |  |  |  |  | 12,506 | 11,794 | 1,470 |  |  |  | 12,506 | 11,794 | 1,470 |
| 10/26/2015 | FALSE | FALSE | FALSE | 3.33 | 8.35 | 5.68 | 59\% | 40\% | 68\% |  | 1.47 | 5.6 | 5.7 |  |  |  |  |  |  |  |  | 12,506 | 11,794 | 1,470 |  |  |  | 12,506 | 11,794 | 1,470 |
| 10/27/2015 | FALSE | FALSE | FALSE | 3.36 | 8.17 | 5.69 | 59\% | 41\% | 70\% |  | 1.44 | 5.6 | 5.7 |  |  |  |  |  |  |  |  | 12,506 | 11,794 | 1,470 |  |  |  | 12,506 | 11,794 | 1,470 |
| 10/28/2015 | FALSE | FALSE | TRUE | 3.38 | 8.45 | 5.69 | 59\% | 40\% | 67\% |  | 1.49 | 5.6 | 5.7 | 296.00 | 238.00 | 0.80 |  | 14,047 | 11,294 |  |  | 12,814 | 11,694 | 1,470 | 14,047 | 11,294 |  | 12,814 | 11,694 | 1,470 |
| 10/29/2015 | FALSE | FALSE | FALSE | 3.34 | 8.20 | 5.75 | 58\% | 41\% | 70\% |  | 1.43 | 5.7 | 5.7 |  |  |  | 32.05 |  |  | 1,537 |  | 12,814 | 11,694 | 1,887 |  |  | 1,537 | 12,814 | 11,694 | 1,487 |
| 10/30/2015 | FALSE | FALSE | FALSE | 3.38 | 8.20 | 5.80 | 58\% | 41\% | 71\% |  | 1.41 | 5.7 | 5.7 |  |  |  |  |  |  |  |  | 12,814 | 11,694 | 1,466 |  |  |  | 12,814 | 11,994 | 1,466 |
| 10/31/2015 | FALSE | FALSE | FALSE | 3.40 | 9.21 | 5.75 | 59\% | 37\% | 62\% |  | 1.60 | 5.7 | 5.7 |  |  |  |  |  |  |  |  | 12,814 | 11,694 | 1,466 |  |  |  | 12,814 | 11,994 | 1,466 |
| 11/1/2015 | FALSE | FALSE | TRUE | 3.35 | 8.92 | 5.73 | 58\% | 38\% | 64\% |  | 1.56 | 5.7 | 5.7 |  |  |  |  |  |  |  |  | 12,814 | 11,994 | 1,466 |  |  |  | 12,814 | 11,994 | 1,466 |
| 11/2/2015 | FALSE | FALSE | true | 3.43 | 9.06 | 6.00 | 57\% | 38\% | 66\% |  | 1.51 | 5.7 | 5.8 |  |  |  |  |  |  |  |  | 12,986 | 10,467 | 1,466 |  |  |  | 12,986 | 10,467 | 1,466 |
| 11/3/2015 | FALSE | FALSE | FALSE | 3.26 | 9.06 | 6.03 | 54\% | 36\% | 67\% |  | 1.50 | 5.7 | 5.8 |  |  |  |  |  |  |  |  | 12,986 | 10,467 | 1,466 |  |  |  | 12,986 | 10,467 | 1,466 |
| 11/4/2015 | FALSE | FALSE | true | 3.39 | 9.04 | 5.90 | 57\% | 38\% | 65\% |  | 1.53 | 5.7 | 5.8 |  |  |  | 31.89 |  |  | 1,569 |  | 12,986 | 10,467 | 1,492 |  |  | 1,569 | 12,986 | 10,467 | 1,492 |
| 11/5/2015 | FALSE | FALSE | FALSE | 3.44 | 8.60 | 5.83 | 59\% | 40\% | 68\% |  | 1.48 | 5.7 | 5.8 | 266.00 | 267.00 | 1.00 |  | 12,934 | 12,982 |  |  | 12,976 | 10,970 | 1,492 | 12,934 | 12,982 |  | 12,976 | 10,970 | 1,492 |
| 11/6/2015 | FALSE | FALSE | FALSE | 3.47 | 8.67 | 5.83 | 60\% | 40\% | 67\% |  | 1.49 | 5.7 | 5.9 |  |  |  |  |  |  |  |  | 12,976 | 10,970 | 1,492 |  |  |  | 12,976 | 10,970 | 1,492 |
| 11/7/2015 | FALSE | FALSE | FALSE | 3.42 | 8.69 | 5.64 | 61\% | 39\% | 65\% |  | 1.54 | 5.7 | 5.8 |  |  |  |  |  |  |  |  | 12,904 | 10,955 | 1,492 |  |  |  | 12,904 | 10,955 | 1,992 |
| 11/8/2015 | FALSE | FALSE | true | 3.37 | 9.08 | 5.76 | 59\% | 37\% | 63\% |  | 1.58 | 5.7 | 5.8 |  |  |  |  |  |  |  |  | 12,904 | 10,955 | 1,541 |  |  |  | 12,904 | 10,955 | 1,541 |
| 11/9/2015 | FALSE | FALSE | TRUE | 3.42 | 8.79 | 5.99 | 57\% | 39\% | 68\% |  | 1.47 | 5.7 | 5.9 |  |  |  |  |  |  |  |  | 12,904 | 10,955 | 1,541 |  |  |  | 12,904 | 10,955 | 1,541 |
| 11/10/2015 | FALSE | FALSE | TRUE | 3.45 | 8.65 | 5.81 | 59\% | 40\% | 67\% |  | 1.49 | 5.7 | 5.8 |  |  |  |  |  |  |  |  | 12,904 | 10,955 | 1,541 |  |  |  | 12,904 | 10,955 | 1,541 |
| 11/11/2015 | FALSE | FALSE | FALSE | 3.48 | 8.80 | 5.86 | 59\% | 40\% | 67\% |  | 1.50 | 5.7 | 5.8 |  |  |  |  |  |  |  |  | 12,904 | 10,955 | 1,541 |  |  |  | 12,904 | 10,955 | 1,541 |
| 11/12/2015 | FALSE | FALSE | FALSE | 3.42 | 8.32 | 5.74 | 60\% | 41\% | 69\% |  | 1.45 | 5.7 | 5.8 |  |  |  | 28.40 |  |  | 1,360 |  | 12,904 | 10,955 | 1,496 |  |  | 1,360 | 12,904 | 10,955 | 1,496 |
| 11/13/2015 | false | FALSE | false | 3.43 | 9.61 | 5.83 | 59\% | 36\% | 61\% |  | 1.65 | 5.7 | 5.8 | 284.00 | 190.00 | 0.67 |  | 13,809 | 9,238 |  |  | 13,085 | 10,612 | 1,496 | 13,809 | 9,238 |  | 13,085 | 10,612 | 1,496 |
| 11/14/2015 | false | FALSE | FALSE | 3.47 | 8.98 | 5.74 | 60\% | 39\% | 64\% |  | 1.56 | 5.7 | 5.8 |  |  |  |  |  |  |  |  | 13,566 | 11,208 | 1,496 |  |  |  | 13,566 | 11,208 | 1,496 |
| 11/15/2015 | FALSE | FALSE | TRUE | 3.43 | 9.68 | 6.05 | 57\% | 35\% | 63\% |  | 1.60 | 5.8 | 5.8 |  |  |  |  |  |  |  |  | 13,566 | 11,208 | 1,489 |  |  |  | 13,566 | 11,208 | 1,489 |
| 11/16/2015 | FALSE | FALSE | FALSE |  | 8.65 | 6.00 |  |  | 69\% | inAvgMinM | 1.44 | 5.8 | 5.9 |  |  |  |  |  |  |  |  | 13,566 | 11,208 | 1,489 |  |  |  | 13,566 | 11,208 | 1,489 |
| 11/17/2015 | FALSE | FALSE | FALSE | 3.46 | 8.55 | 6.00 | 58\% | 40\% | 70\% |  | 1.43 | 5.8 | 5.9 |  |  |  |  |  |  |  |  | 13,566 | 11,208 | 1,489 |  |  |  | 13,566 | 11,208 | 1,489 |
| 11/18/2015 | FALSE | FALSE | FALSE | 3.41 | 8.85 | 5.90 | 58\% | 39\% | 67\% |  | 1.50 | 5.8 | 5.9 | 257.00 | 231.00 | 0.90 |  | 12,646 | 11,367 |  |  | 13,382 | 11,240 | 1,489 | 12,646 | 11,367 |  | 13,382 | 11,240 | 1,489 |
| 11/19/2015 | FALSE | FALSE | FALSE | 3.47 | 16.23 | 5.89 | 59\% | 21\% | 36\% | inMaxAvgM | 2.76 | 5.8 | 5.9 |  |  |  | 27.40 |  |  | 1,346 |  | 13,382 | 11,240 | 1,453 |  |  | 1,346 | 13,382 | 11,240 | 1,453 |


| Date | $\begin{aligned} & \text { Butte } \\ & \text { Break? } \end{aligned}$ | $\begin{gathered} \text { csu } \\ \text { Break? } \end{gathered}$ | Precip? | Min Influent Flow, mgd | $\begin{gathered} \text { Max } \\ \text { Influent } \\ \text { Flow, } \mathrm{mgd} \end{gathered}$ | $\begin{gathered} \text { Avg } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | $\underset{\text { Avg }}{\operatorname{Min} \% \text { of }}$ | $\mathrm{Min}_{\mathrm{Max}} \% \text { of }$ | $\begin{aligned} & \text { Avg \% of } \\ & \text { Max } \end{aligned}$ | $\begin{aligned} & \text { Flow } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | Diurnal <br> Peak <br> Factor <br> (DPF) | 30-d Avg of Avg Flow, mgd | 7-d Avg of Avg Flow, mgd | Influent Tss conc., $\mathrm{mg} / \mathrm{L}$ mg/ | Influent BOD Conc., mg/L | BoD/TSS Ratio | Influent NH3-N Conc., mg/L | Avg linf TSS Load, ppd | Avg Inf BOD Load, ppd | Avg Inf NH3 Load, ppd | $\begin{gathered} \text { Load } \\ \text { Outlier } \\ \text { Type } \end{gathered}$ | $\begin{aligned} & \text { 30-d Avg } \\ & \text { of TSS } \\ & \text { Load, ppd } \end{aligned}$ | 30-d Avg of BOD Load, ppd | 30-d Avg of NH3-N Load, ppd | $\begin{gathered} \text { non-SN } \\ \text { TSS Load, } \\ \text { ppd } \end{gathered}$ | non-SN BOD Load, ppd | non-SN NH3 Load, ppd | 30-d Avg <br> of non-SN TSS Load, ppd | 30-d Avg <br> of non-SN BOD Load, ppd | $\begin{aligned} & \text { 30-d Avg } \\ & \text { of non-SN } \\ & \text { NH3-N } \\ & \text { Load, ppd } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 11/20/2015 | FALSE | TRUE | FALSE | 3.37 | 8.24 | 5.74 | 59\% | 41\% | 70\% |  | 1.44 | 5.8 | 5.9 |  |  |  |  |  |  |  |  | 13,382 | 11,240 | 1,453 |  |  |  | 13,382 | 11,240 | 1,453 |
| 11/21/2015 | FALSE | TRUE | FALSE | 3.40 | 8.67 | 5.51 | 62\% | 39\% | 64\% |  | 1.57 | 5.8 | 5.8 |  |  |  |  |  |  |  |  | 13,359 | 11,220 | 1,453 |  |  |  | 13,359 | 11,220 | 1,453 |
| 11/22/2015 | FALSE | TRUE | FALSE | 3.42 | 11.27 | 5.31 | 64\% | 30\% | 47\% | AvgMax | 2.12 | 5.8 | 5.8 |  |  |  |  |  |  |  |  | 13,359 | 11,220 | 1,453 |  |  |  | 13,359 | 11,220 | 1,453 |
| 11/23/2015 | FALSE | TRUE | FALSE | 3.43 | 10.67 | 5.39 | 64\% | 32\% | 51\% | AvgMax | 1.98 | 5.8 | 5.8 |  |  |  |  |  |  |  |  | 13,359 | 11,220 | 1,453 |  |  |  | 13,359 | 11,220 | 1,453 |
| 11/24/2015 | FALSE | TRUE | FALSE | 3.49 | 7.52 | 5.42 | 64\% | 46\% | 72\% |  | 1.39 | 5.8 | 5.7 |  |  |  |  |  |  |  |  | 13,359 | 11,220 | 1,453 |  |  |  | 13,359 | 11,220 | 1,453 |
| 11/25/2015 | TRUE | TRUE | FALSE | 3.43 | 8.08 | 5.49 | 62\% | 42\% | 68\% |  | 1.47 | 5.8 | 5.6 | 283.00 | 241.00 | 0.85 |  | 12,958 | 11,035 |  |  | 13,278 | 11,183 | 1,453 | 12,958 | 11,035 |  | 13,278 | 11,183 | 1,453 |
| 11/26/2015 | TRUE | TRUE | FALSE | 3.40 | 8.38 | 5.07 | 67\% | 41\% | 61\% |  | 1.65 | 5.8 | 5.4 |  |  |  |  |  |  |  |  | 13,278 | 11,183 | 1,453 |  |  |  | 13,278 | 11,183 | 1,453 |
| 11/27/2015 | TRUE | TRUE | FALSE | 3.42 | 7.49 | 4.96 | 69\% | 46\% | 66\% |  | 1.51 | 5.7 | 5.4 |  |  |  |  |  |  |  |  | 13,278 | 11,183 | 1,453 |  |  |  | 13,278 | 11,183 | 1,453 |
| 11/28/2015 | true | TRUE | FALSE | 3.36 | 7.84 | 5.20 | 65\% | 43\% | 66\% |  | 1.51 | 5.7 | 5.3 |  |  |  |  |  |  |  |  | 13,086 | 11,155 | 1,453 |  |  |  | 13,086 | 11,155 | 1,453 |
| 11/29/2015 | TRUE | TRUE | FALSE | 3.32 | 8.49 | 5.47 | 61\% | 39\% | 64\% |  | 1.55 | 5.7 | 5.3 |  |  |  |  |  |  |  |  | 13,086 | 11,155 | 1,425 |  |  |  | 13,086 | 11,155 | 1,425 |
| 11/30/2015 | true | TRUE | FALSE | 3.39 | 8.33 | 5.74 | 59\% | 41\% | 69\% |  | 1.45 | 5.7 | 5.3 |  |  |  |  |  |  |  |  | 13,086 | 11,155 | 1,425 |  |  |  | 13,086 | 11,155 | 1,425 |
| 12/1/2015 | FALSE | FALSE | FALSE | 3.42 | 8.32 | 5.72 | 60\% | 41\% | 69\% |  | 1.45 | 5.7 | 5.4 |  |  |  |  |  |  |  |  | 13,086 | 11,155 | 1,425 |  |  |  | 13,086 | 11,155 | 1,425 |
| 12/2/2015 | FALSE | FALSE | FALSE | 3.43 | 8.07 | 5.71 | 60\% | 43\% | 71\% |  | 1.41 | 5.7 | 5.4 | 299.00 | 265.00 | 0.89 |  | 14,239 | 12,620 |  |  | 13,317 | 11,448 | 1,425 | 14,239 | 12,620 |  | 13,317 | 11,448 | 1,425 |
| 12/3/2015 | FALSE | FALSE | TRUE | 3.45 | 8.23 | 5.80 | 59\% | 42\% | 70\% |  | 1.42 | 5.7 | 5.5 |  |  |  | 33.00 |  |  | 1,596 |  | 13,317 | 11,448 | 1,468 |  |  | 1,596 | 13,317 | 11,448 | 1,468 |
| 12/4/2015 | FALSE | FALSE | FALSE | 3.46 | 8.22 | 5.79 | 60\% | 42\% | 70\% |  | 1.42 | 5.7 | 5.5 |  |  |  |  |  |  |  |  | 13,317 | 11,448 | 1,468 |  |  |  | 13,317 | 11,448 | 1,468 |
| 12/5/2015 | FALSE | FALSE | FALSE | 3.44 | 8.84 | 5.70 | 60\% | 39\% | 64\% |  | 1.55 | 5.7 | 5.6 |  |  |  |  |  |  |  |  | 13,317 | 11,448 | 1,434 |  |  |  | 13,317 | 11,448 | 1,434 |
| 12/6/2015 | FALSE | FALSE | TRUE | 3.43 | 9.07 | 5.76 | 60\% | 38\% | 64\% |  | 1.57 | 5.7 | 5.7 |  |  |  |  |  |  |  |  | 13,413 | 11,065 | 1,434 |  |  |  | 13,413 | 11,065 | 1,434 |
| 12/7/2015 | FALSE | FALSE | true | 3.40 | 8.28 | 5.80 | 59\% | 41\% | 70\% |  | 1.43 | 5.7 | 5.8 |  |  |  |  |  |  |  |  | 13,413 | 11,065 | 1,434 |  |  |  | 13,413 | 11,065 | 1,434 |
| 12/8/2015 | FALSE | FALSE | true | 3.43 | 7.99 | 5.79 | 59\% | 43\% | 72\% |  | 1.38 | 5.7 | 5.8 |  |  |  |  |  |  |  |  | 13,413 | 11,065 | 1,434 |  |  |  | 13,413 | 11,065 | 1,434 |
| 12/9/2015 | FALSE | FALSE | True | 3.35 | 8.26 | 5.88 | 57\% | 41\% | 71\% |  | 1.40 | 5.7 | 5.8 | 318.00 | 216.00 | 0.68 |  | 15,594 | 10,592 |  |  | 13,849 | 10,970 | 1,434 | 15,594 | 10,592 |  | 13,849 | 10,970 | 1,434 |
| 12/10/2015 | FALSE | FALSE | TRUE | 3.38 | 8.39 | 5.98 | 57\% | 40\% | 71\% |  | 1.40 | 5.7 | 5.8 |  |  |  | 29.90 |  |  | 1,491 |  | 13,849 | 10,970 | 1,448 |  |  | 1,991 | 13,849 | 10,970 | 1,448 |
| 12/11/2015 | FALSE | FALSE | FALSE | 3.45 | 8.29 | 5.89 | 59\% | 42\% | 71\% |  | 1.41 | 5.7 | 5.8 |  |  |  |  |  |  |  |  | 13,849 | 10,970 | 1,448 |  |  |  | 13,849 | 10,970 | 1,448 |
| 12/12/2015 | FALSE | FALSE | FALSE | 3.42 | 9.13 | 5.78 | 59\% | 37\% | 63\% |  | 1.58 | 5.7 | 5.8 |  |  |  |  |  |  |  |  | 13,849 | 10,970 | 1,448 |  |  |  | 13,849 | 10,970 | 1,448 |
| 12/13/2015 | FALSE | FALSE | TRUE | 3.39 | 9.65 | 5.99 | 57\% | 35\% | 62\% |  | 1.61 | 5.7 | 5.9 |  |  |  |  |  |  |  |  | 13,849 | 10,970 | 1,478 |  |  |  | 13,849 | 10,970 | 1,478 |
| 12/14/2015 | FALSE | FALSE | FALSE | 3.45 | 8.66 | 6.08 | 57\% | 40\% | 70\% |  | 1.42 | 5.7 | 5.9 |  |  |  |  |  |  |  |  | 13,859 | 11,403 | 1,478 |  |  |  | 13,859 | 11,403 | 1,478 |
| 12/15/2015 | FALSE | FALSE | FALSE | 3.45 | 8.57 | 6.01 | 57\% | 40\% | 70\% |  | 1.43 | 5.7 | 5.9 |  |  |  |  |  |  |  |  | 13,859 | 11,403 | 1,478 |  |  |  | 13,859 | 11,403 | 1,478 |
| 12/16/2015 | FALSE | FALSE | FALSE | 3.46 | 8.42 | 5.90 | 59\% | 41\% | 70\% |  | 1.43 | 5.7 | 5.9 | 618.00 | 484.00 | 0.78 |  | 30,409 | 23,816 |  | TSS | 13,859 | 13,886 | 1,478 | 30,409 | 23,816 |  | 13,859 | 13,886 | 1,478 |
| 12/17/2015 | FALSE | FALSE | FALSE | 3.45 | 8.28 | 5.87 | 59\% | 42\% | 71\% |  | 1.41 | 5.7 | 5.9 |  |  |  | 28.50 |  |  | 1,395 |  | 13,859 | 13,886 | 1,457 |  |  | 1,395 | 13,859 | 13,886 | 1,457 |
| 12/18/2015 | TRUE | TRUE | TRUE | 3.41 | 9.22 | 6.28 | 54\% | 37\% | 68\% |  | 1.47 | 5.7 | 6.0 |  |  |  |  |  |  |  |  | 13,859 | 13,886 | 1,457 |  |  |  | 13,859 | 13,886 | 1,457 |
| 12/19/2015 | TRUE | TRUE | TRUE | 4.33 | 10.68 | 7.28 | 59\% | 41\% | 68\% |  | 1.47 | 5.8 | 6.1 |  |  |  |  |  |  |  |  | 14,264 | 14,516 | 1,457 |  |  |  | 14,264 | 14,516 | 1,457 |
| 12/20/2015 | TRUE | TRUE | TRUE | 3.64 | 16.48 | 6.29 | 58\% | 22\% | 38\% | inMaxAvgM | 2.62 | 5.8 | 6.2 |  |  |  |  |  |  |  |  | 14,264 | 14,516 | 1,494 |  |  |  | 14,264 | 14,516 | 1,494 |
| 12/21/2015 | true | TRUE | TRUE | 4.10 | 10.15 | 6.71 | 61\% | 40\% | 66\% |  | 1.51 | 5.8 | 6.3 |  |  |  |  |  |  |  |  | 14,264 | 14,516 | 1,494 |  |  |  | 14,264 | 14,516 | 1,494 |
| 12/22/2015 | true | true | true | 4.04 | 9.45 | 6.61 | 61\% | 43\% | 70\% |  | 1.43 | 5.8 | 6.4 |  |  |  | 16.80 |  |  | 926 |  | 14,264 | 14,516 | 1,352 |  |  | 926 | 14,264 | 14,516 | 1,352 |
| 12/23/2015 | TRUE | TRUE | FALSE | 3.73 | 8.93 | 6.13 | 61\% | 42\% | 69\% |  | 1.46 | 5.9 | 6.4 | 207.00 | 170.00 | 0.82 |  | 10,583 | 8,691 |  |  | 13,343 | 13,351 | 1,352 | 10,583 | 8,691 |  | 13,343 | 13,351 | 1,352 |
| 12/24/2015 | true | TRUE | true | 3.55 | 8.80 | 5.80 | 61\% | 40\% | 66\% |  | 1.52 | 5.9 | 6.4 |  |  |  |  |  |  |  |  | 13,343 | 13,351 | 1,352 |  |  |  | 13,343 | 13,351 | 1,352 |
| 12/25/2015 | TRUE | ${ }_{\text {TRUE }}$ | TRUE | 3.47 | 7.27 | 4.95 | 70\% | 48\% | 68\% | MinAvg | 1.47 | 5.9 | 6.5 |  |  |  |  |  |  |  |  | 13,343 | 13,351 | 1,352 |  |  |  | 13,343 | 13,351 | 1,352 |
| 12/26/2015 | TRUE | true | FALSE | 3.40 | 7.95 | 5.22 | 65\% | 43\% | 66\% |  | 1.52 | 5.9 | 6.3 |  |  |  |  |  |  |  |  | 13,472 | 13,930 | 1,352 |  |  |  | 13,472 | 13,930 | 1,352 |
| 12/27/2015 | TRUE | TRUE | FALSE | 3.41 | 8.13 | 5.32 | 64\% | 42\% | 65\% |  | 1.53 | 5.9 | 6.0 |  |  |  |  |  |  |  |  | 13,472 | 13,930 | 1,352 |  |  |  | 13,472 | 13,930 | 1,352 |
| 12/28/2015 | TRUE | TRUE | TRUE | 3.46 | 8.10 | 5.51 | 63\% | 43\% | 68\% |  | 1.47 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 13,472 | 13,930 | 1,352 |  |  |  | 13,472 | 13,930 | 1,352 |
| 12/29/2015 | TRUE | TRUE | FALSE | 3.48 3.44 | 7.81 | 5.46 5.34 | ${ }^{64 \%}$ | 45\% | 70\% |  | 1.43 | 5.9 | 5.7 |  |  |  |  |  |  |  |  | 13,472 | 13,930 | 1,352 |  |  |  | 13,472 | 13,930 | 1,352 |
| 12/30/2015 | true | TRUE | FALSE | 3.44 | 7.66 | 5.34 | 64\% | 45\% | 70\% |  | 1.43 | 5.9 | 5.5 | 287.00 | 253.00 | 0.88 |  | 12,782 | 11,268 |  |  | 13,299 | 13,397 | 1,352 | 12,782 | 11,268 |  | 13,299 | 13,397 | 1,352 |
| 12/31/2015 | true | True | FALSE | 3.37 | 8.09 | 5.45 | 62\% | 42\% | 67\% |  | 1.48 | 5.9 | 5.4 |  |  |  | 28.00 |  |  | 1,273 |  | 13,299 | 13,397 | 1,336 1,336 |  |  | 1,273 | 13,299 | 13,397 | 1,336 <br> 1,336 |
| 1/1/2016 | TRUE | TRUE | FALSE | $\begin{aligned} & 3.38 \\ & 3,37 \end{aligned}$ | $7.38$ | $\begin{aligned} & 4.97 \\ & 5.97 \end{aligned}$ | 68\% | 46\% | 67\% |  | $\begin{aligned} & 1.48 \\ & 1.57 \end{aligned}$ | $5.9$ | $\begin{aligned} & 5.3 \\ & 5 \end{aligned}$ |  |  |  |  |  |  |  |  | $\begin{aligned} & 13,299 \\ & 12989 \end{aligned}$ | $\begin{aligned} & 13,397 \\ & \text { 1,592 } \end{aligned}$ | $\begin{aligned} & 1,336 \\ & 1,336 \end{aligned}$ |  |  |  | $\begin{aligned} & 13,299 \\ & 1089 \end{aligned}$ | $\begin{aligned} & 13,397 \\ & 1,592 \end{aligned}$ | 1,336 1,336 1,37 |
| 1/3/2016 | TRUE | TRUE | FALSE | 3.3 3.33 | 8.11 8.23 | 5.47 5.46 | 61\% | 40\% | 66\% |  | 1.51 1.51 | 5.8 | 5.3 |  |  |  |  |  |  |  |  | 12,986 | 13,592 | 1,271 1,21 |  |  |  | 112,986 | 13,592 | 1,271 <br> 1,276 |
| 1/4/2016 | TRUE | TRUE | TRUE | 3.23 | 7.65 | 5.40 | 60\% | 42\% | 71\% |  | 1.42 | 5.8 | 5.3 |  |  |  |  |  |  |  |  | 12,986 | 13,592 | 1,271 |  |  |  | 12,986 | 13,592 | 1,271 |
| 1/5/2016 | true | TRUE | true | 3.50 | 10.81 | 7.54 | 46\% | 32\% | 70\% |  | 1.43 | 5.9 | 5.6 |  |  |  |  |  |  |  |  | 12,986 | 13,592 | 1,271 |  |  |  | 12,986 | 13,592 | 1,271 |
| 1/6/2016 | TRUE | TRUE | true | 3.93 | 11.36 | 8.40 | 47\% | 35\% | 74\% |  | 1.35 | 6.0 | 6.0 | 224.00 | 183.00 | 0.82 |  | 15,693 | 12,820 |  |  | 13,663 | 13,437 | 1,271 | 15,693 | 12,820 |  | 13,663 | 13,437 | 1,271 |
| 1/7/2016 | true | true | true | 5.10 | 10.83 | 8.19 | 62\% | 47\% | 76\% |  | 1.32 | 6.0 | 6.3 |  |  |  | 10.84 |  |  | 740 |  | 13,663 | 13,437 | 1,165 |  |  | 740 | 13,663 | 13,437 | 1,165 |
| 1/8/2016 | TRUE | TRUE | FALSE | 3.86 | 18.52 | 6.91 | 56\% | 21\% | 37\% | inMaxAvgM | 2.68 | 6.1 | 6.4 |  |  |  |  |  |  |  |  | 13,663 | 13,437 | 1,165 |  |  |  | 13,663 | 13,437 | 1,165 |
| 1/9/2016 | TRUE | TRUE | true | 3.56 | 10.06 | 6.42 | 55\% | 35\% | 64\% |  | 1.57 | 6.1 | 6.7 |  |  |  |  |  |  |  |  | 13,019 | 14,149 | 1,165 |  |  |  | 13,019 | 14,149 | 1,165 |
| 1/10/2016 | TRUE | TRUE | FALSE | 3.36 | 9.34 | 6.12 | 55\% | 36\% | 66\% |  | 1.53 | 6.1 | 6.8 |  |  |  |  |  |  |  |  | 13,019 | 14,149 | 1,084 |  |  |  | 13,019 | 14,149 | 1,084 |
| 1/11/2016 | true | true | FALSE | 3.37 | 8.93 | 6.20 | 54\% | 38\% | 69\% |  | 1.44 | 6.1 | 6.9 |  |  |  |  |  |  |  |  | 13,019 | 14,149 | 1,084 |  |  |  | 13,019 | 14,149 | 1,084 |
| 1/12/2016 | true | TRUE | FALSE | 3.27 | 8.48 | 5.90 | 55\% | 39\% | 70\% |  | 1.44 | 6.1 | 7.0 |  |  |  |  |  |  |  |  | 13,019 | 14,149 | 1,084 |  |  |  | 13,019 | 14,149 | 1,084 |
| 1/13/2016 | TRUE | TRUE | TRUE | 3.58 | 9.83 | 6.80 | 53\% | 36\% | 69\% |  | 1.45 | 6.1 | 6.9 | 229.00 | 230.00 | 1.00 |  | 12,987 | 13,044 |  |  | 13,011 | 13,928 | 1,084 | 12,987 | 13,044 |  | 13,011 | 13,928 | 1,084 |
| 1/14/2016 | true | TRUE | true | 3.52 | 9.91 | 6.74 | 52\% | 36\% | 68\% |  | 1.47 | 6.2 | 6.6 |  |  |  | 15.40 |  |  | 866 |  | 13,011 | 13,928 | 1,040 |  |  | 866 | 13,011 | 13,928 | 1,040 |
| 1/15/2016 | TRUE | TRUE | TRUE | 3.80 | 9.84 | 6.94 | 55\% | 39\% | 71\% |  | 1.42 | 6.2 | 6.4 |  |  |  |  |  |  |  |  | 13,011 | 13,928 | 1,040 |  |  |  | 13,011 | 13,928 | 1,040 |
| 1/16/2016 | true | TRUE | true | 3.80 | 11.05 | 7.18 | 53\% | 34\% | 65\% |  | 1.54 | 6.2 | 6.5 |  |  |  |  |  |  |  |  | 13,011 | 11,456 | 1,040 |  |  |  | 13,011 | 11,456 | 1,040 |
| 1/17/2016 | TRUE | true | true | 3.86 | 13.38 | 8.55 | 45\% | 29\% | 64\% |  | 1.56 | 6.3 | 6.8 |  |  |  |  |  |  |  |  | 13,011 | 11,456 | 951 |  |  |  | 13,011 | 11,456 | 951 |
| 1/18/2016 | TRUE | TRUE | TRUE | 8.24 | 13.62 | 10.87 | 76\% | 60\% | 80\% | inAvgMinM | 1.25 | 6.3 | 6.9 |  |  |  |  |  |  |  |  | 13,011 | 11,456 | 951 |  |  |  | 13,011 | 11,456 | 951 |
| 1/19/2016 | ${ }_{\text {TRUE }}$ | ${ }_{\text {TRUE }}^{\text {TRUE }}$ | TRUE | 5.24 | 13.82 | 10.12 | 52\% | 38\% | 73\% |  | 1.37 | 6.4 | 7.5 |  |  |  |  |  |  |  |  | 13,011 | 11,456 | 951 |  |  |  | 13,011 | 11,456 | 951 |
| 1/20/2016 | TRUE | TRUE | FALSE | 5.36 | 11.43 | 8.70 | 62\% | 47\% | 76\% |  | 1.31 | 6.5 | 7.9 |  |  |  |  |  |  |  |  | 13,011 | 11,456 | 951 |  |  |  | 13,011 | 11,456 | 951 |
| 1/21/2016 | TRUE | true | TRUE | 4.26 | 10.53 | 7.74 | 55\% | 40\% | 74\% |  | 1.36 | 6.5 | 8.0 |  |  |  | 15.80 |  |  | 1,020 |  | 13,011 | 11,456 | 965 |  |  | 1,020 | 13,011 | 11,456 | 965 |


| Date | $\begin{aligned} & \text { Butte } \\ & \text { Break? } \end{aligned}$ | $\underset{\text { Break? }}{\text { csu }}$ | Precip? | $\begin{gathered} \text { Min } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ |  | $\begin{gathered} \text { Avg } \\ \text { Influent } \\ \text { How, mgd } \end{gathered}$ | $\underset{\text { Avg }}{\operatorname{Min} \% \text { of }}$ | $\underset{\text { Max }}{\min _{2} \text { of }}$ | $\begin{gathered} \text { Avg } \% \text { of } \\ \text { Max } \end{gathered}$ | $\begin{aligned} & \text { Flow } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | $\begin{aligned} & \text { Diurnal } \\ & \text { Peak } \\ & \text { Factor } \\ & \text { (DPF) } \end{aligned}$ | $\begin{gathered} \text { 30-d Avg } \\ \text { of Avg } \\ \text { Flow, mgd } \end{gathered}$ | 7-d Avg of Avg Flow, mgd | Influent TSS Conc., mg/L | $\begin{gathered} \text { Influent } \\ \text { BoD } \\ \text { Conc, } \\ \text { mg/L } \end{gathered}$ | $\begin{aligned} & \text { BoD/TSS } \\ & \text { Ratio } \end{aligned}$ | Influent NH3-N Conc., mg/L | Avg linf TSS Load, ppc | Avg Inf BOD Load, ppd | Avg Inf NH3 Load, ppd | $\begin{gathered} \text { Load } \\ \text { Outlier } \\ \text { Type } \end{gathered}$ | $\begin{gathered} \text { 30-d Avg } \\ \text { of TJs } \\ \text { Lood, ppd } \end{gathered}$ | 30-d Avg of BOD Load, ppd | 30-d Avg of NH3-N Load, ppd | non-SN TSS Load, ppd | $\begin{gathered} \text { non-SN } \\ \text { BoD Load, } \\ \text { ppd } \end{gathered}$ | non-SN NH3 Load, ppd | 30-d Avg of non-SN ppd | 30-d Avg of non-SN BOD Load, ppd | $\begin{aligned} & \text { 30-d Avg } \\ & \text { of non-SN } \\ & \text { NH3-N } \\ & \text { Load, ppd } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1/22/2016 | TRUE | TRUE | TRUE | 4.07 | 10.58 | 8.08 | 50\% | 38\% | 76\% |  | 1.31 | 6.6 | 8.2 | 204.00 | 180.00 | 0.88 |  | 13,747 | 12,130 |  |  | 13,158 | 11,590 | 975 | 13,747 | 12,130 |  | 13,158 | 11,590 | 975 |
| 1/23/2016 | TRUE | true | TRUE | 5.66 | 11.90 | 8.98 | 63\% | 48\% | 75\% |  | 1.33 | 6.7 | 8.5 |  |  |  |  |  |  |  |  | 13,802 | 12,315 | 975 |  |  |  | 13,802 | 12,315 | 975 |
| 1/24/2016 | TRUE | true | TRUE | 4.33 | 10.95 | 8.13 | 53\% | 40\% | 74\% |  | 1.35 | 6.8 | 8.6 |  |  |  |  |  |  |  |  | 13,802 | 12,315 | 975 |  |  |  | 13,802 | 12,315 | 975 |
| 1/25/2016 | TRUE | true | true | 3.88 | 10.91 | 7.68 | 51\% | 36\% | 70\% |  | 1.42 | 6.8 | 8.5 |  |  |  |  |  |  |  |  | 13,802 | 12,315 | 975 |  |  |  | 13,802 | 12,315 | 975 |
| 1/26/2016 | FALSE | FALSE | FALSE | 3.79 | 10.68 | 7.36 | 51\% | 35\% | 69\% |  | 1.45 | 6.9 | 8.3 |  |  |  |  |  |  |  |  | 13,802 | 12,315 | 975 |  |  |  | 13,802 | 12,315 | 975 |
| 1/27/2016 | FALSE | FALSE | false | 3.56 | 10.36 | 6.95 | 51\% | 34\% | 67\% |  | 1.49 | 6.9 | 8.0 | 213.00 | 229.00 | 1.08 |  | 12,346 | 13,274 |  |  | 13,511 | 12,507 | 975 | 12,346 | 13,274 |  | 13,511 | 12,507 | 975 |
| 1/28/2016 | FALSE | FALSE | TRUE | 3.52 | 9.91 | 6.80 | 52\% | 36\% | 69\% |  | 1.46 | 7.0 | 7.7 |  |  |  | 21.10 |  |  | 1,197 |  | 13,511 | 12,507 | 1,019 |  |  | 1,197 | 13,511 | 12,507 | 1,019 |
| 1/29/2016 | FALSE | FALSE | true | 3.52 | 9.57 | 6.82 | 52\% | 37\% | 71\% |  | 1.40 | 7.0 | 7.6 |  |  |  |  |  |  |  |  | 13,511 | 12,507 | 1,019 |  |  |  | 13,511 | 12,507 | 1,019 |
| 1/30/2016 | FALSE | FALSE | TRUE | 3.65 | 10.38 | 7.06 | 52\% | 35\% | 68\% |  | 1.47 | 7.1 | 7.5 |  |  |  |  |  |  |  |  | 13,693 | 12,817 | 1,019 |  |  |  | 13,693 | 12,817 | 1,019 |
| 1/31/2016 | FALSE | FALSE | TRUE | 3.49 | 10.92 | 6.92 | 50\% | 32\% | 63\% |  | 1.58 | 7.1 | 7.2 |  |  |  |  |  |  |  |  | 13,693 | 12,817 | 956 |  |  |  | 13,693 | 12,817 | 956 |
| 2/1/2016 | FALSE | FALSE | false | 3.40 | 10.07 | 6.75 | 50\% | 34\% | 67\% |  | 1.49 | 7.2 | 7.0 |  |  |  |  |  |  |  |  | 13,693 | 12,817 | 956 |  |  |  | 13,693 | 12,817 | 956 |
| 2/2/2016 | FALSE | FALSE | FALSE | 3.42 | 9.55 | 6.53 | 52\% | 36\% | 68\% |  | 1.46 | 7.3 | 6.9 |  |  |  |  |  |  |  |  | 13,993 | 12,817 | 956 |  |  |  | 13,693 | 12,817 | 956 |
| 2/3/2016 | FALSE | FALSE | false | 3.36 | 9.37 | 6.40 | 53\% | 36\% | 68\% |  | 1.46 | 7.3 | 6.8 |  |  |  |  |  |  |  |  | 13,693 | 12,817 | 956 |  |  |  | 13,693 | 12,817 | 956 |
| 2/4/2016 | FALSE | FALSE | FALSE | 3.32 | 9.37 | 6.31 | 53\% | 35\% | 67\% |  | 1.48 | 7.3 | 6.7 | 261.00 | 302.00 | 1.16 |  | 13,735 | 15,893 |  |  | 13,702 | 13,432 | 956 | 13,735 | 15,893 |  | 13,702 | 13,432 | 956 |
| 2/5/2016 | FALSE | FALSE | false | 3.21 | 9.18 | 6.22 | 52\% | 35\% | 68\% |  | 1.48 | 7.3 | 6.6 |  |  |  |  |  |  |  |  | 13,702 | 13,432 | 956 |  |  |  | 13,702 | 13,432 | 956 |
| 2/6/2016 | FALSE | FALSE | FALSE | 3.24 | 9.60 | 6.05 | 54\% | 34\% | 63\% |  | 1.59 | 7.2 | 6.5 |  |  |  |  |  |  |  |  | 13,204 | 13,585 | 956 |  |  |  | 13,204 | 13,585 | 956 |
| 2/7/2016 | FALSE | FALSE | false | 3.23 | 10.03 | 5.92 | 55\% | 32\% | 59\% |  | 1.69 | 7.1 | 6.4 |  |  |  |  |  |  |  |  | 13,204 | 13,585 | 1,027 |  |  |  | 13,204 | 13,585 | 1,027 |
| 2/8/2016 | FALSE | FALSE | FALSE | 3.16 | 8.94 | 6.02 | 52\% | 35\% | 67\% |  | 1.49 | 7.1 | 6.3 |  |  |  |  |  |  |  |  | 13,204 | 13,585 | 1,027 |  |  |  | 13,204 | 13,585 | 1,027 |
| 2/9/2016 | FALSE | FALSE | false | 3.20 | 8.88 | 6.04 | 53\% | 36\% | 68\% |  | 1.47 | 7.1 | 6.2 |  |  |  |  |  |  |  |  | 13,204 | 13,585 | 1,027 |  |  |  | 13,204 | 13,585 | 1,027 |
| 2/10/2016 | FALSE | FALSE | FALSE | 3.20 | 8.73 | 5.92 | 54\% | 37\% | 68\% |  | 1.47 | 7.1 | 6.1 | 226.00 | 141.00 | 0.62 |  | 11,158 | 6,962 |  |  | 12,795 | 12,260 | 1,027 | 11,158 | 6,962 |  | 12,795 | 12,260 | 1,027 |
| 2/11/2016 | FALSE | FALSE | false | 3.19 | 8.79 | 5.85 | 55\% | 36\% | 67\% |  | 1.50 | 7.0 | 6.0 |  |  |  |  |  |  |  |  | 12,795 | 12,260 | 1,027 |  |  |  | 12,795 | 12,260 | 1,027 |
| 2/12/2016 | FALSE | FALSE | FALSE | 3.20 | 8.95 | 5.89 | 54\% | 36\% | 66\% |  | 1.52 | 7.0 | 6.0 |  |  |  |  |  |  |  |  | 12,795 | 12,260 | 1,027 |  |  |  | 12,795 | 12,260 | 1,027 |
| 2/13/2016 | FALSE | FALSE | false | 3.16 | 9.27 | 5.66 | 56\% | 34\% | 61\% |  | 1.64 | 7.0 | 5.9 |  |  |  |  |  |  |  |  | 12,747 | 12,064 | 1,027 |  |  |  | 12,747 | 12,064 | 1,027 |
| 2/14/2016 | FALSE | FALSE | FALSE | 3.12 | 8.97 | 5.56 | 56\% | 35\% | 62\% |  | 1.61 | 7.0 | 5.9 |  |  |  |  |  |  |  |  | 12,747 | 12,064 | 1,108 |  |  |  | 12,747 | 12,064 | 1,108 |
| 2/15/2016 | FALSE | FALSE | false | 3.11 | 8.88 | 5.79 | 54\% | 35\% | 65\% |  | 1.53 | 6.9 | 5.8 |  |  |  |  |  |  |  |  | 12,747 | 12,064 | 1,108 |  |  |  | 12,747 | 12,064 | 1,108 |
| 2/16/2016 | FALSE | FALSE | FALSE | 3.17 | 8.58 | 5.76 | 55\% | 37\% | 67\% |  | 1.49 | 6.9 | 5.8 |  |  |  |  |  |  |  |  | 12,747 | 12,064 | 1,108 |  |  |  | 12,747 | 12,064 | 1,108 |
| 2/17/2016 | FALSE | false | TRUE | 3.14 | 9.51 | 5.89 | 53\% | 33\% | 62\% |  | 1.61 | 6.8 | 5.8 | 274.00 | 327.00 | 1.19 |  | 13,460 | 16,063 |  |  | 12,889 | 12,864 | 1,108 | 13,460 | 16,063 |  | 12,889 | 12,864 | 1,108 |
| 2/18/2016 | FALSE | FALSE | TRUE | 3.25 | 9.42 | 6.14 | 53\% | 35\% | 65\% |  | 1.53 | 6.8 | 5.8 |  |  |  |  |  |  |  |  | 12,889 | 12,864 | 1,108 |  |  |  | 12,889 | 12,864 | 1,108 |
| 2/19/2016 | FALSE | FALSE | TRUE | 3.24 | 8.65 | 6.08 | 53\% | 37\% | 70\% |  | 1.42 | 6.6 | 5.8 |  |  |  |  |  |  |  |  | 12,889 | 12,864 | 1,108 |  |  |  | 12,889 | 12,864 | 1,108 |
| 2/20/2016 | FALSE | FALSE | FALSE | 3.22 | 9.60 | 5.96 | 54\% | 34\% | 62\% |  | 1.61 | 6.6 | 5.9 |  |  |  |  |  |  |  |  | 12,889 | 12,864 | 1,108 |  |  |  | 12,889 | 12,864 | 1,108 |
| 2/21/2016 | FALSE | FALSE | FALSE | 3.16 | 9.40 | 5.93 | 53\% | 34\% | 63\% |  | 1.59 | 6.5 | 5.9 |  |  |  |  |  |  |  |  | 12,889 | 12,864 | 1,197 |  |  |  | 12,889 | 12,864 | 1,197 |
| 2/22/2016 | FALSE | FALSE | FALSE | 3.17 | 8.79 | 5.94 | 53\% | 36\% | 68\% |  | 1.48 | 6.4 | 5.9 |  |  |  |  |  |  |  |  | 12,675 | 13,048 | 1,197 |  |  |  | 12,675 | 13,048 | 1,197 |
| 2/23/2016 | FALSE | false | false | 3.25 | 9.01 | 5.94 | 55\% | 36\% | 66\% |  | 1.52 | 6.3 | 6.0 |  |  |  |  |  |  |  |  | 12,675 | 13,048 | 1,197 |  |  |  | 12,675 | 13,048 | 1,197 |
| 2/24/2016 | FALSE | false | FALSE | 3.23 | 9.09 | 5.92 | 55\% | 36\% | 65\% |  | 1.54 | 6.3 | 6.0 | 236.00 | 194.00 | 0.82 |  | 11,652 | 9,578 |  |  | 12,470 | 12,354 | 1,197 | 11,652 | 9,578 |  | 12,470 | 12,354 | 1,197 |
| 2/25/2016 | FALSE | false | false | 3.21 | 8.60 | 5.81 | 55\% | 37\% | 68\% |  | 1.48 | 6.2 | 6.0 |  |  |  |  |  |  |  |  | 12,470 | 12,354 | 1,197 |  |  |  | 12,470 | 12,354 | 1,197 |
| 2/26/2016 | FALSE | FALSE | false | 3.16 | 8.51 | 5.75 | 55\% | 37\% | 68\% |  | 1.48 | 6.1 | 5.9 |  |  |  |  |  |  |  |  | 12,470 | 12,354 | 1,197 |  |  |  | 12,470 | 12,354 | 1,197 |
| 2/27/2016 | FALSE | false | false | 3.12 | 9.20 | 5.71 | 55\% | 34\% | 62\% |  | 1.61 | 6.1 | 5.9 |  |  |  |  |  |  |  |  | 12,501 | 12,124 | 1,197 |  |  |  | 12,501 | 12,124 | 1,197 |
| 2/28/2016 | FALSE | FALSE | false | 3.12 | 9.00 | 5.70 | 55\% | 35\% | 63\% |  | 1.58 | 6.1 | 5.8 |  |  |  |  |  |  |  |  | 12,501 | 12,124 |  |  |  |  | 12,501 | 12,124 |  |
| 2/29/2016 | FALSE | FALSE | false | 3.09 | 8.69 | 5.74 | 54\% | 36\% | 66\% |  | 1.51 | 6.0 | 5.8 |  |  |  |  |  |  |  |  | 12,501 | 12,124 |  |  |  |  | 12,501 | 12,124 |  |
| 3/1/2016 | FALSE | FALSE | FALSE | 3.14 | 8.33 | 5.68 | 55\% | 38\% | 68\% |  | 1.47 | 6.0 | 5.8 |  |  |  |  |  |  |  |  | 12,501 | 12,124 |  |  |  |  | 12,501 | 12,124 |  |
| 3/2/2016 | FALSE | FALSE | FALSE | 3.13 | 8.55 | 5.76 | 54\% | 37\% | 67\% |  | 1.48 | 6.0 | 5.8 | 319.00 | 239.00 | 0.75 |  | 15,324 | 11,481 |  |  | 13,066 | 11,995 |  | 15,324 | 11,481 |  | 13,066 | 11,995 |  |
| 3/3/2016 | FALSE | FALSE | TRUE | 3.16 | 8.44 | 5.77 | 55\% | 37\% | 68\% |  | 1.46 | 5.9 | 5.7 |  |  |  | 29.00 |  |  | 1,396 |  | 13,066 | 11,995 | 1,396 |  |  | 1,396 | 13,066 | 11,995 | 1,396 |
| 3/4/2016 | FALSE | FALSE | TRUE | 3.16 | 8.39 | 5.82 | 54\% | 38\% | 69\% |  | 1.44 | 5.9 | 5.7 |  |  |  |  |  |  |  |  | 13,066 | 11,995 | 1,396 |  |  |  | 13,066 | 11,995 | 1,396 |
| 3/5/2016 | FALSE | FALSE | TRUE | 3.27 | 10.68 | 6.61 | 49\% | 31\% | 62\% |  | 1.62 | 5.9 | 5.8 |  |  |  |  |  |  |  |  | 13,066 | 11,995 | 1,396 |  |  |  | 13,066 | 11,995 | 1,396 |
| 3/6/2016 | FALSE | FALSE | TRUE | 5.25 | 11.84 | 9.16 | 57\% | 44\% | 77\% |  | 1.29 | 6.0 | 6.3 |  |  |  |  |  |  |  |  | 12,899 | 11,021 | 1,396 1,396 |  |  |  | 12,899 | 11,021 | 1,396 1 1 1 |
| 3/7/72016 | FALSE | FALSE | TRUE | 8.80 | 16.65 | 12.75 | 69\% | 53\% | 77\% |  | 1.31 | 6.2 | 7.2 |  |  |  |  |  |  |  |  | 12,899 | 11,021 | 1,396 |  |  |  | 12,899 | 11,021 | 1,396 1 1 |
| 3/8/2016 | FALSE | FALSE | FALSE | 6.20 | 13.27 | 9.82 | 63\% | 47\% | 74\% |  | 1.35 | 6.3 | 7.7 |  |  |  |  |  |  |  |  | 12,899 | 11,021 | 1,396 1,396 |  |  |  | 12,899 | 11,021 | 1,396 1 1 1 |
| 3/9/2016 | FALSE | FALSE | TRUE | 4.84 | 11.50 | 8.55 | 57\% | 42\% | 74\% |  | 1.35 | 6.4 | 8.0 |  |  |  |  |  |  |  |  | 12,899 | 11,021 | 1,396 |  |  |  | 12,899 | 11,021 | 1,396 |
| 3/10/2016 | FALSE | FALSE | TRUE | 4.39 | 15.06 | 10.17 | 43\% | 29\% | 68\% |  | 1.48 | 6.6 | 8.6 |  |  |  | 26.40 |  |  | 2,239 | NH3 | 12,899 | 11,021 | 1,396 1,396 |  |  | 2,239 | 12,899 | 11,021 | 1,396 <br> 1 <br> 1 |
| 3/11/2016 | FALSE | TRUE | TRUE | 9.01 | 16.18 | 12.91 | 70\% | 56\% | 80\% | inAvgMinM | 1.25 | 6.6 | 9.0 |  |  |  |  |  |  |  |  | 12,899 | 11,021 | 1,396 |  |  |  | 12,899 | 11,021 | 1,396 |
| 3/12/2016 | FALSE | TRUE | TRUE | 6.93 | 13.88 | 11.14 | 62\% | 50\% | 80\% |  | 1.25 | 6.7 | 9.7 |  |  |  |  |  |  |  |  | 13,479 | 12,374 | 1,396 |  |  |  | 13,479 | 12,374 | 1,396 |
| 3/13/2016 | FALSE | TRUE | TRUE | 7.59 | 13.37 | 10.72 | 71\% | 57\% | 80\% | inAvgMinM | 1.25 | 6.8 | 10.3 |  |  |  |  |  |  |  |  | 13,479 | 12,374 | 1,396 |  |  |  | 13,479 | 12,374 | 1,396 |
| 3/14/2016 | FALSE | True | FALSE | 6.41 | 12.20 | 9.73 | 66\% | 53\% | 80\% |  | 1.25 | 6.9 | 10.4 |  |  |  |  |  |  |  |  | 13,479 | 12,374 12374 | 1,396 1 1,369 |  |  |  | 13,479 11479 | 12,374 | 1,396 1 1 1 |
| 3/15/2016 | FALSE | TRUE | ${ }_{\text {FALSE }}$ | 5.46 | 10.80 1034 | 8.62 | ${ }^{63 \%}$ | 51\% | 80\% |  | 1.25 | 7.0 | 9.7 |  |  |  |  |  |  |  |  | 13,479 | 12,374 | 1,396 |  |  |  | 13,479 | 12,374 | 1,396 1 1,369 |
| 3/16/2016 | FALSE | TRUE | FALSE | 4.82 | 10.34 | 7.92 | 61\% | 47\% | 77\% |  | 1.31 | 7.1 | 9.4 | 175.00 | 159.00 | 0.91 |  | 11,559 | 10,502 |  |  | 12,999 | 11,906 | 1,396 | 11,559 | 10,502 |  | 12,999 | 11,906 | 1,396 |
| $3 / 17 / 2016$ | ${ }_{\text {FALSE }}$ | TRUE | FALSE | 4.41 | 10.26 | 7.51 | 59\% | 43\% | 73\% |  | 1.37 | 7.1 | 9.2 |  |  |  | 16.40 |  |  | 1,027 |  | 12,999 | 11,906 | 1,211 |  |  | 1,027 | 12,999 | 11,906 | 1,211 |
| 3/18/2016 | True | true | FALSE | 4.03 | 9.83 | 7.14 | 55\% | 41\% | 73\% |  | 1.38 | 7.2 | 8.7 |  |  |  |  |  |  |  |  | 12,999 | 11,906 | 1,211 |  |  |  | 12,999 | 11,906 | 1,211 |
| 3/19/2016 | TRUE | TRUE | ${ }_{\text {FALSE }}$ | 3.69 | 9.53 10.21 | 6.67 | 55\% | 39\% | 70\% |  | 1.43 | 7.2 | 8.4 |  |  |  |  |  |  |  |  | 12,845 | 10,521 | 1,211 |  |  |  | 12,845 | 10,521 | 1,211 1 1 |
| $3 / 20 / 2016$ $3 / 21 / 2016$ | TRUE TRUE | ${ }_{\text {TRUE }}^{\text {TRUE }}$ | TRUE TRUE |  | 10.21 10.40 | 6.82 7.21 |  |  | 67\% | inAvgMinM | $\begin{aligned} & 1.50 \\ & 144 \end{aligned}$ | 7.3 7.3 | $\begin{aligned} & 7.9 \\ & 7.8 \end{aligned}$ |  |  |  |  |  |  |  |  | 12,845 12,845 | 10,521 10,521 | 1,211 1,211 |  |  |  | 12,845 12,845 | 10,521 10,521 | 1,211 1,211 1 |
| 3/21/2016 | TRUE | ${ }_{\text {TRUE }}^{\text {TRE }}$ | $\stackrel{\text { TRUE }}{\text { FALSE }}$ | 3.60 3.73 | 10.40 10.31 | 7.21 7.23 | 50\% | 35\% | 69\% |  | $\begin{aligned} & 1.44 \\ & 1.43 \end{aligned}$ | 7.3 7.3 | $\begin{aligned} & 7.8 \\ & 7.5 \end{aligned}$ |  |  |  |  |  |  |  |  | 12,845 12,845 | 10,521 | 1,211 1,211 |  |  |  | 112,845 | 10,521 | ${ }_{1}^{1,211}$ |
| 3/23/2016 | true | FALSE | false | 3.54 | 10.26 | 6.97 | 51\% | 35\% | 68\% |  | 1.47 | 7.4 | 7.2 |  |  |  | 27.40 |  |  | 1,593 |  | 12,845 | 10,521 | 1,338 |  |  | 1,593 | 12,845 | 10,521 | 1,338 |
| 3/24/2016 | TRUE | false | false | 3.48 | 9.91 | 6.81 | 51\% | 35\% | 69\% |  | 1.46 | 7.4 | 7.1 | 224.00 | 196.00 | 0.88 |  | 12,722 | 11,132 |  |  | 12,814 | 10,673 | 1,338 | 12,477 | 11,072 |  | 12,753 | 10,658 | 1,338 |


| Date | $\begin{aligned} & \text { Butte } \\ & \text { Break? } \end{aligned}$ | $\underset{\text { Break? }}{\text { csu }}$ | Precip? | $\min _{\substack{\text { Influent } \\ \text { Flow, mgd }}}^{\text {mand }}$ | $\begin{gathered} \text { Max } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | $\begin{gathered} \text { Avg } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | $\underset{\text { Avg of }}{\substack{\text { Avi }}}$ | Min \% of Max | $\begin{aligned} & \text { Ave \% of } \\ & \text { max } \end{aligned}$ | $\begin{gathered} \text { Flow } \\ \text { Outlier } \\ \text { Type } \end{gathered}$ | $\begin{aligned} & \text { Diurnal } \\ & \text { Peak } \\ & \text { Factor } \\ & \text { (DPFF) } \end{aligned}$ | $\begin{gathered} \text { 30-d Avg } \\ \text { of Avg } \\ \text { Flow, mgd } \end{gathered}$ | 7-d Avg of Avg Flow, mgd | Influent TSS Conc., mg/L | Influent BOD Conc. mg/L | BOD/TSS | Influent NH3-N Conc., mg/L | Avg linf TsS Load, ppd | Avg $\operatorname{lnf}$ BOD Load, ppd | Avg lnf NH3 Load, ppd | $\begin{gathered} \text { Load } \\ \text { Outlier } \\ \text { Type } \end{gathered}$ | 30-d Avg of TSS Load, ppd | 30-d Avg of BOD Load, ppd | 30-d Avg of NH3-N Load, ppd | $\xrightarrow{\text { non-SN }}$ TSS Load, ppd | $\begin{gathered} \text { non-SN } \\ \text { BOD Load, } \\ \text { ppd } \end{gathered}$ | $\begin{gathered} \text { non-SN } \\ \text { NH3 Load, } \\ \text { ppd } \end{gathered}$ | 30-d Avg of non-SN TSS Load, ppd | $\begin{gathered} \text { 30-d Avg } \\ \text { of non-SN } \\ \text { BOD Load, } \\ \text { ppd } \end{gathered}$ | 30-d Avg of non-SN NH3-N Load, pp |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3/25/2016 | TRUE | FALSE | FALSE | 3.46 | 9.87 | 6.69 | 52\% | 35\% | 68\% |  | 1.48 | 7.4 | 7.0 |  |  |  |  |  |  |  |  | 12,814 | 10,673 | 1,338 |  |  |  | 12,753 | 10,658 | 1,338 |
| 3/26/2016 | FALSE | FALSE | FALSE | 3.36 | 9.92 | 6.39 | 53\% | 34\% | 64\% |  | 1.55 | 7.5 | 6.9 |  |  |  |  |  |  |  |  | 13,202 | 11,038 | 1,338 |  |  |  | 13,120 | 11,018 | 1,338 |
| 3/27/2016 | FALSE | FALSE | FALSE | 3.36 | 9.61 | 6.09 | 55\% | 35\% | 63\% |  | 1.58 | 7.5 | 6.8 |  |  |  |  |  |  |  |  | 13,202 | 11,038 | 1,338 |  |  |  | 13,120 | 11,018 | 1,338 |
| 3/28/2016 | FALSE | FALSE | FALSE | 3.27 | 9.84 | 6.36 | 51\% | 33\% | 65\% |  | 1.55 | 7.5 | 6.7 |  |  |  |  |  |  |  |  | 13,202 | 11,038 | 1,338 |  |  |  | 13,120 | 11,018 | 1,338 |
| 3/29/2016 | False | FALSE | false | 3.35 | 9.37 | 6.28 | 53\% | 36\% | 67\% |  | 1.49 | 7.5 | 6.6 |  |  |  |  |  |  |  |  | 13,202 | 11,038 | 1,338 |  |  |  | 13,120 | 11,018 | 1,338 |
| 3/30/2016 | FALSE | FALSE | FALSE | 3.27 | 9.22 | 6.20 | 53\% | 35\% | 67\% |  | 1.49 | 7.5 | 6.5 | 256.00 | 316.00 | 1.23 |  | 13,237 | 16,340 |  |  | 13,211 | 12,364 | 1,338 | 13,237 | 16,340 |  | 13,150 | 12,349 | 1,338 |
| 3/31/2016 | FALSE | FALSE | FALSE | 3.36 | 9.23 | 6.14 | 55\% | 36\% | 67\% |  | 1.50 | 7.5 | 6.4 |  |  |  | 29.90 |  |  | 1,531 |  | 13,211 | 12,364 | 1,387 |  |  | 1,531 | 13,150 | 12,349 | 1,387 |
| 4/1/2016 | FALSE | FALSE | FALSE | 3.26 | 9.08 | 6.07 | 54\% | 36\% | 67\% |  | 1.50 | 7.6 | 6.3 |  |  |  |  |  |  |  |  | 13,211 | 12,364 | 1,387 |  |  |  | 13,150 | 12,349 | 1,387 |
| 4/2/2016 | False | False | false | 3.23 | 8.93 | 5.83 | 55\% | 36\% | 65\% |  | 1.53 | 7.6 | 6.2 |  |  |  |  |  |  |  |  | 12,506 | 12,658 | 1,387 |  |  |  | 12,425 | 12,638 | 1,387 |
| 4/3/2016 | FALSE | FALSE | FALSE | 3.26 | 9.21 | 5.87 | 56\% | 35\% | 64\% |  | 1.57 | 7.6 | 6.1 |  |  |  |  |  |  |  |  | 12,506 | 12,658 | 1,384 |  |  |  | 12,425 | 12,638 | 1,384 |
| 4/4/2016 | FALSE | FALSE | false | 3.22 | 8.88 | 6.03 | 53\% | 36\% | 68\% |  | 1.47 | 7.6 | 6.1 |  |  |  |  |  |  |  |  | 12,506 | 12,658 | 1,384 |  |  |  | 12,425 | 12,638 | 1,384 |
| 4/5/2016 | FALSE | FALSE | false | 3.16 | 8.77 | 6.00 | 53\% | 36\% | 68\% |  | 1.46 | 7.5 | 6.1 |  |  |  |  |  |  |  |  | 12,506 | 12,658 | 1,384 |  |  |  | 12,425 | 12,638 | 1,384 |
| 4/6/2016 | False | FALSE | false | 3.39 | 8.76 | 5.99 | 57\% | 39\% | 68\% |  | 1.46 | 7.4 | 6.0 | 248.00 | 179.00 | 0.72 |  | 12,389 | 8,942 |  |  | 12,477 | 11,729 | 1,384 | 12,389 | 8,942 |  | 12,416 | 11,714 | 1,384 |
| 4/7/2016 | False | FALSE | false | 3.40 | 8.85 | 6.01 | 57\% | 38\% | 68\% |  | 1.47 | 7.2 | 6.0 |  |  |  | 28.30 |  |  | 1,418 |  | 12,477 | 11,729 | 1,392 |  |  | 1,418 | 12,416 | 11,714 | 1,392 |
| 4/8/2016 | False | FALSE | false | 3.41 | 8.79 | 5.99 | 57\% | 39\% | 68\% |  | 1.47 | 7.1 | 6.0 |  |  |  |  |  |  |  |  | 12,477 | 11,729 | 1,392 |  |  |  | 12,416 | 11,714 | 1,392 |
| 4/9/2016 | FALSE | FALSE | True | 3.35 | 9.08 | 5.97 | 56\% | 37\% | 66\% |  | 1.52 | 7.0 | 6.0 |  |  |  |  |  |  |  |  | 12,477 | 11,729 | 1,392 |  |  |  | 12,416 | 11,714 | 1,392 |
| 4/10/2016 | FALSE | FALSE | TrUE | 3.36 | 9.26 | 5.98 | 56\% | 36\% | 65\% |  | 1.55 | 6.8 | 6.0 |  |  |  |  |  |  |  |  | 12,477 | 11,729 | 1,392 |  |  |  | 12,416 | 11,714 | 1,392 |
| 4/11/2016 | FALSE | FALSE | false | 3.36 | 8.39 | 5.94 | 57\% | 40\% | 71\% |  | 1.41 | 6.8 | 6.0 |  |  |  |  |  |  |  |  | 12,477 | 11,729 | 1,392 |  |  |  | 12,416 | 11,714 | 1,392 |
| 4/12/2016 | FALSE | FALSE | false | 3.43 | 8.58 | 5.94 | 58\% | 40\% | 69\% |  | 1.44 | 6.6 | 6.0 |  |  |  |  |  |  |  |  | 12,477 | 11,729 | 1,392 |  |  |  | 12,416 | 11,714 | 1,392 |
| 4/13/2016 | FALSE | FALSE | FALSE | 3.38 | 8.39 | 5.94 | 57\% | 40\% | 71\% |  | 1.41 | 6.6 | 6.0 | 277.00 | 217.00 | 0.78 |  | 13,722 | 10,750 |  |  | 12,726 | 11,533 | 1,392 | 13,722 | 10,750 |  | 12,677 | 11,521 | 1,392 |
| 4/14/2016 | FALSE | FALSE | false | 3.41 | 8.69 | 6.00 | 57\% | 39\% | 69\% |  | 1.45 | 6.5 | 6.0 |  |  |  | 31.80 |  |  | 1,591 |  | 12,726 | 11,533 | 1,432 |  |  | 1,591 | 12,677 | 11,521 | 1,432 |
| 4/15/2016 | False | FALSE | false | 3.32 | 8.45 | 5.88 | 56\% | 39\% | 70\% |  | 1.44 | 6.4 | 6.0 |  |  |  |  |  |  |  |  | 12,726 | 11,533 | 1,432 |  |  |  | 12,677 | 11,521 | 1,432 |
| 4/16/2016 | FALSE | FALSE | false | 3.34 | 8.79 | 5.70 | 59\% | 38\% | 65\% |  | 1.54 | 6.3 | 5.9 |  |  |  |  |  |  |  |  | 13,018 | 11,791 | 1,432 |  |  |  | 12,957 | 11,776 | 1,432 |
| 4/17/2016 | False | FALSE | false | 3.40 | 8.63 | 5.68 | 60\% | 39\% | 66\% |  | 1.52 | 6.2 | 5.9 |  |  |  |  |  |  |  |  | 13,018 | 11,791 | 1,533 |  |  |  | 12,957 | 11,776 | 1,533 |
| 4/18/2016 | FALSE | FALSE | false | 3.39 | 8.49 | 5.87 | 58\% | 40\% | 69\% |  | 1.45 | 6.2 | 5.9 |  |  |  |  |  |  |  |  | 13,018 | 11,791 | 1,533 |  |  |  | 12,957 | 11,776 | 1,533 |
| 4/19/2016 | FALSE | FALSE | FALSE | 3.40 | 8.36 | 5.87 | 58\% | 41\% | 70\% |  | 1.42 | 6.2 | 5.9 |  |  |  |  |  |  |  |  | 13,018 | 11,791 | 1,533 |  |  |  | 12,957 | 11,776 | 1,533 |
| 4/20/2016 | False | FALSE | false | 3.40 | 8.56 | 5.87 | 58\% | 40\% | 69\% |  | 1.46 | 6.2 | 5.9 | 316.00 |  |  |  | 15,470 |  |  |  | 13,508 | 11,791 | 1,533 | 15,470 |  |  | 13,459 | 11,776 | 1,533 |
| 4/21/2016 | FALSE | FALSE | FALSE | 3.46 | 8.38 | 5.99 | 58\% | 41\% | 71\% |  | 1.40 | 6.1 | 5.9 |  |  |  | 35.20 |  |  | 1,758 |  | 13,508 | 11,791 | 1,578 |  |  | 1,758 | 13,459 | 11,776 | 1,578 |
| 4/22/2016 | FALSE | FALSE | true | 3.58 | 9.49 | 6.40 | 56\% | 38\% | 67\% |  | 1.48 | 6.1 | 5.9 |  |  |  |  |  |  |  |  | 13,508 | 11,791 | 1,578 |  |  |  | 13,459 | 11,776 | 1,578 |
| 4/23/2016 | FALSE | FALSE | false | 3.48 | 9.07 | 6.05 | 58\% | 38\% | 67\% |  | 1.50 | 6.1 | 5.9 |  |  |  |  |  |  |  |  | 13,508 | 11,791 | 1,575 |  |  |  | 13,459 | 11,776 | 1,575 |
| 4/24/2016 | FALSE | FALSE | FALSE | 3.49 | 8.86 | 5.95 | 59\% | 39\% | 67\% |  | 1.49 | 6.0 | 6.0 |  |  |  |  |  |  |  |  | 13,705 | 12,011 | 1,575 |  |  |  | 13,705 | 12,011 | 1,575 |
| 4/25/2016 | False | FALSE | false | 3.38 | 8.62 | 5.99 | 56\% | 39\% | 69\% |  | 1.44 | 6.0 | 6.0 |  |  |  |  |  |  |  |  | 13,705 | 12,011 | 1,575 |  |  |  | 13,705 | 12,011 | 1,575 |
| 4/26/2016 | False | FALSE | false | 3.43 | 8.72 | 6.01 | 57\% | 39\% | 69\% |  | 1.45 | 6.0 | 6.0 |  |  |  |  |  |  |  |  | 13,705 | 12,011 | 1,575 |  |  |  | 13,705 | 12,011 | 1,575 |
| 4/27/2016 | FALSE | FALSE | false | 3.44 | 8.61 | 6.04 | 57\% | 40\% | 70\% |  | 1.43 | 6.0 | 6.0 | 261.00 | 189.00 | 0.72 |  | 13,148 | 9,521 |  |  | 13,593 | 11,388 | 1,575 | 13,148 | 9,521 |  | 13,593 | 11,388 | 1,575 |
| 4/28/2016 | FALSE | FALSE | false | 3.41 | 8.53 | 5.98 | 57\% | 40\% | 70\% |  | 1.43 | 6.0 | 6.1 |  |  |  |  |  |  |  |  | 13,593 | 11,388 | 1,575 |  |  |  | 13,593 | 11,388 | 1,575 |
| 4/29/2016 | FALSE | FALSE | FALSE | 3.46 | 8.51 | 5.93 | 58\% | 41\% | 70\% |  | 1.44 | 6.0 | 6.0 |  |  |  |  |  |  |  |  | 13,593 | 11,388 | 1,575 |  |  |  | 13,593 | 11,388 | 1,575 |
| 4/30/2016 | False | FALSE | false | 3.46 | 8.70 | 5.76 | 60\% | 40\% | 66\% |  | 1.51 | 6.0 | 6.0 |  |  |  |  |  |  |  |  | 13,682 | 9,738 | 1,575 |  |  |  | 13,682 | 9,738 | 1,575 |
| 5/1/2016 | FALSE | FALSE | True | 3.42 | 8.52 | 5.70 | 60\% | 40\% | 67\% |  | 1.49 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 13,682 | 9,738 | 1,589 |  |  |  | 13,682 | 9,738 | 1,589 |
| 5/2/2016 | FALSE | FALSE | TrUE | 3.36 | 8.36 | 5.85 | 57\% | 40\% | 70\% |  | 1.43 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 13,682 | 9,738 | 1,589 |  |  |  | 13,682 | 9,738 | 1,589 |
| 5/3/2016 | FALSE | FALSE | false | 3.41 | 8.37 | 5.86 | 58\% | 41\% | 70\% |  | 1.43 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 13,682 | 9,738 | 1,589 |  |  |  | 13,682 | 9,738 | 1,589 |
| 5/4/2016 | FALSE | FALSE | FALSE | 3.44 | 8.44 | 5.90 | 58\% | 41\% | 70\% |  | 1.43 | 5.9 | 5.9 | 252.00 | 195.00 | 0.77 |  | 12,400 | 9,595 |  |  | 13,426 | 9,702 | 1,589 | 12,400 | 9,595 |  | 13,426 | 9,702 | 1,589 |
| 5/5/2016 | FALSE | FALSE | True | 3.41 | 8.66 | 6.19 | 55\% | 39\% | 71\% |  | 1.40 | 5.9 | 5.9 |  |  |  | 32.30 |  |  | 1,667 |  | 13,426 | 9,702 | 1,609 |  |  | 1,667 | 13,426 | 9,702 | 1,609 |
| 5/6/2016 | FALSE | FALSE | TrUE | 3.43 | 8.26 | 5.92 | 58\% | 42\% | 72\% |  | 1.40 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 13,426 | 9,702 | 1,609 |  |  |  | 13,426 | 9,702 | 1,609 |
| 5/7/2016 | FALSE | FALSE | TRUE | 3.43 | 9.39 | 5.88 | 58\% | 37\% | 63\% |  | 1.60 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 13,685 | 9,955 | 1,609 |  |  |  | 13,685 | 9,955 | 1,609 |
| 5/8/2016 | FALSE | FALSE | TRUE | 3.36 | 8.92 | 5.73 | 59\% | 38\% | 64\% |  | 1.56 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 13,685 | 9,955 | 1,672 |  |  |  | 13,685 | 9,955 | 1,672 |
| 5/9/2016 | FALSE | FALSE | FALSE | 3.41 | 8.39 | 5.99 | 57\% | 41\% | 71\% |  | 1.40 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 13,685 | 9,955 | 1,672 |  |  |  | 13,685 | 9,955 | 1,672 |
| 5/10/2016 | False | FALSE | false | 3.44 | 8.35 | 5.89 | 58\% | 41\% | 71\% |  | 1.42 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 13,685 | 9,955 | 1,672 |  |  |  | 13,685 | 9,955 | 1,672 |
| 5/11/2016 | FALSE | FALSE | FALSE | 3.51 | 8.28 | 5.83 | 60\% | 42\% | 70\% |  | 1.42 | 5.9 | 5.9 | 202.20 | 203.00 | 1.00 |  | 9,831 | 9,870 |  |  | 12,914 | 9,934 | 1,672 | 9,831 | 9,870 |  | 12,914 | 9,934 | 1,672 |
| 5/12/2016 | FALSE | FALSE | false | 3.42 | 8.37 | 5.81 | 59\% | 41\% | 69\% |  | 1.44 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 12,914 | 9,934 | 1,672 |  |  |  | 12,914 | 9,934 | 1,672 |
| 5/13/2016 | FALSE | FALSE | FALSE | 3.43 | 8.81 | 5.83 | 59\% | 39\% | 66\% |  | 1.51 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 12,914 | 9,934 | 1,672 |  |  |  | 12,914 | 9,934 | 1,672 |
| 5/14/2016 | FALSE | FALSE | FALSE | 3.34 | 8.57 | 5.66 | 59\% | 39\% | 66\% |  | 1.51 | 5.9 | 5.8 |  |  |  |  |  |  |  |  | 12,712 | 9,662 | 1,672 |  |  |  | 12,712 | 9,662 | 1,672 |
| 5/15/2016 | FALSE | FALSE | false | 3.33 | 8.82 | 5.67 | 59\% | 38\% | 64\% |  | 1.56 | 5.9 | 5.8 |  |  |  |  |  |  |  |  | 12,712 | 9,662 | 1,713 |  |  |  | 12,712 | 9,662 | 1,713 |
| 5/16/2016 | FALSE | FALSE | FALSE | 3.30 | 8.28 | 5.79 | 57\% | 40\% | 70\% |  | 1.43 | 5.9 | 5.8 |  |  |  |  |  |  |  |  | 12,712 | 9,662 | 1,713 |  |  |  | 12,712 | 9,662 | 1,713 |
| 5/17/2016 | False | FALSE | false | 3.40 | 8.61 | 5.80 | 59\% | 39\% | 67\% |  | 1.48 | 5.9 | 5.8 |  |  |  |  |  |  |  |  | 12,712 | 9,662 | 1,713 |  |  |  | 12,712 | 9,662 | 1,713 |
| 5/18/2016 | FALSE | FALSE | FALSE | 3.41 | 8.52 | 5.84 | 58\% | 40\% | 69\% |  | 1.46 | 5.9 | 5.8 | 299.00 |  |  |  | 14,563 |  |  |  | 13,082 | 9,662 | 1,713 | 14,563 |  |  | 13,082 | 9,662 | 1,713 |
| 5/19/2016 | FALSE | FALSE | FALSE | 3.37 | 8.41 | 5.81 | 58\% | 40\% | 69\% |  | 1.45 | 5.9 | 5.8 |  |  |  |  |  |  |  |  | 13,082 | 9,662 | 1,713 |  |  |  | 13,082 | 9,662 | 1,713 |
| 5/20/2016 | False | False | TRUE | 3.37 | 8.22 | 5.84 | 58\% | 41\% | 71\% |  | 1.41 | 5.9 | 5.8 |  |  |  |  |  |  |  |  | 13,082 | 9,662 | 1,713 |  |  |  | 13,082 | 9,662 | 1,713 |
| 5/21/2016 | FALSE | FALSE | FALSE | 3.42 | 8.89 | 5.81 | 59\% | 38\% | 65\% |  | 1.53 | 5.9 | 5.8 |  |  |  |  |  |  |  |  | 12,485 | 9,662 | 1,713 |  |  |  | 12,485 | 9,662 | 1,713 |
| 5/22/2016 | False | True | false | 3.42 | 8.41 | 5.66 | 60\% | 41\% | 67\% |  | 1.49 | 5.9 | 5.8 |  |  |  |  |  |  |  |  | 12,485 | 9,662 | 1,667 |  |  |  | 12,485 | 9,662 | 1,667 |
| 5/23/2016 | FALSE | true | FALSE | 3.42 | 8.04 | 5.64 | 61\% | 43\% | 70\% |  | 1.43 | 5.9 | 5.8 |  |  |  |  |  |  |  |  | 12,485 | 9,662 | 1,667 |  |  |  | 12,485 | 9,662 | 1,667 |
| 5/24/2016 | FALSE | true | FALSE | 3.44 | 7.71 | 5.49 | 63\% | 45\% | 71\% |  | 1.40 | 5.8 | 5.7 |  |  |  |  |  |  |  |  | 12,485 | 9,662 | 1,667 |  |  |  | 12,485 | 9,662 | 1,667 |
| 5/25/2016 | FALSE | true | FALSE | 3.40 | 7.74 | 5.51 | 62\% | 44\% | 71\% |  | 1.40 | 5.8 | 5.7 |  |  |  |  |  |  |  |  | 12,485 | 9,662 | 1,667 |  |  |  | 12,485 | 9,662 | 1,667 |
| 5/26/2016 | FALSE | true | FALSE | 3.45 | 7.63 | 5.47 | 63\% | 45\% | 72\% |  | 1.39 | 5.8 | 5.7 |  |  |  |  |  |  |  |  | 12,485 | 9,662 | 1,667 |  |  |  | 12,485 | 9,662 | 1,667 |


| Date | $\begin{aligned} & \text { Butte } \\ & \text { Break? } \end{aligned}$ | $\underset{\text { Break? }}{\text { csu }}$ | Precip? | $\begin{gathered} \quad \begin{array}{c} \text { Min } \\ \text { Influent } \\ \text { Flow, } \end{array} \text { mgd } \end{gathered}$ | $\begin{gathered} \text { Max } \\ \text { Influent } \\ \text { Flow, } \text { mgd } \end{gathered}$ | $\begin{gathered} \text { Avg } \\ \text { Influent } \\ \text { Flow, } \text { mgd } \end{gathered}$ | $\begin{aligned} & \text { Min \% of } \\ & \text { Avg } \end{aligned}$ | Min \% of Max | Avg \% of | $\begin{aligned} & \text { Flow } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | $\begin{aligned} & \text { Diurnal } \\ & \text { Peak } \\ & \text { Factor } \\ & \text { (DPF) } \end{aligned}$ | $\begin{aligned} & \text { 30-d Avg } \\ & \text { of Avg } \end{aligned}$ Flow, mgd | 7-d Avg of Avg Flow, mgd | Influent TSS Conc., mg/L | $\begin{aligned} & \text { Influent } \\ & \text { BoD } \\ & \text { Conc., } \\ & \text { mg/L } \end{aligned}$ | Bod/Tss Ratio | Influent NH3-N Conc., mg/L | Avg linf TSS Load ppc | Avg Inf BOD Load, ppd | Avg Inf NH3 Load, ppd | $\begin{aligned} & \text { Load } \\ & \text { Outier } \\ & \text { Type } \end{aligned}$ | $\begin{gathered} \text { 30-d Avg } \\ \text { of TSS } \end{gathered}$ Load, ppd | $\begin{aligned} & \text { 30-d Avg } \\ & \text { of BOD } \\ & \text { Load, ppd } \end{aligned}$ | 30-d Avg <br> of NH3-N <br> Load, ppd | non-SN TSS Load, ppd | $\begin{gathered} \text { non-SN } \\ \text { BOD Load, } \\ \text { ppd } \end{gathered}$ | non-SN NH3 Load, ppd | $\begin{aligned} & \text { 30-d Avg } \\ & \text { of non-SN } \\ & \text { TSS Load, } \\ & \text { ppd } \end{aligned}$ | $\begin{gathered} \text { 30-d Avg } \\ \text { of non-SN } \\ \text { BOD Load, } \\ \text { ppd } \end{gathered}$ | $\begin{aligned} & \text { 30-d AVg } \\ & \text { of non-SN } \\ & \text { NH3-N } \\ & \text { Load, ppd } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5/27/2016 | TRUE | TRUE | FALSE | 3.48 | 7.75 | 5.44 | 64\% | 45\% | 70\% |  | 1.42 | 5.8 | 5.6 | 315.00 | 237.00 | 0.75 |  | 14,291 | 10,753 |  |  | 12,847 | 9,935 | 1,667 | 14,291 | 10,753 |  | 12,847 | 9,935 | 1,667 |
| 5/28/2016 | TRUE | TRUE | FALSE | 3.41 | 7.91 | 5.18 | 66\% | 43\% | 65\% |  | 1.53 | 5.8 | 5.5 |  |  |  |  |  |  |  |  | 12,771 | 10,073 | 1,667 |  |  |  | 12,771 | 10,073 | 1,667 |
| 5/29/2016 | TRUE | TRUE | FALSE | 3.47 | 7.48 | 5.03 | 69\% | 46\% | 67\% |  | 1.49 | 5.7 | 5.4 |  |  |  |  |  |  |  |  | 12,771 | 10,073 | 1,667 |  |  |  | 12,771 | 10,073 | 1,667 |
| 5/30/2016 | TRUE | TRUE | FALSE | 3.43 | 8.02 | 5.21 | 66\% | 43\% | 65\% |  | 1.54 | 5.7 | 5.4 |  |  |  |  |  |  |  |  | 12,771 | 10,073 | 1,667 |  |  |  | 12,771 | 10,073 | 1,667 |
| 5/31/2016 | TRUE | TRUE | FALSE | 3.45 | 7.54 | 5.33 | 65\% | 46\% | 71\% |  | 1.41 | 5.7 | 5.3 |  |  |  |  |  |  |  |  | 12,771 | 10,073 | 1,667 |  |  |  | 12,771 | 10,073 | 1,667 |
| 6/1/2016 | TRUE | TRUE | FALSE | 3.53 | 7.37 | 5.36 | 66\% | 48\% | 73\% |  | 1.38 | 5.7 | 5.3 | 356.85 | 186.00 | 0.52 |  | 15,952 | 8,315 |  |  | 13,408 | 9,633 | 1,667 | 15,952 | 8,315 |  | 13,408 | 9,633 | 1,667 |
| 6/2/2016 | TRUE | TRUE | FALSE | 3.46 | 7.58 | 5.40 | 64\% | 46\% | 71\% |  | 1.40 | 5.7 | 5.3 |  |  |  | 30.00 |  |  | 1,351 |  | 13,408 | 9,633 | 1,509 |  |  | 1,351 | 13,408 | 9,633 | 1,509 |
| 6/3/2016 | TRUE | TRUE | FALSE | 3.50 | 7.28 | 5.37 | 65\% | 48\% | 74\% |  | 1.36 | 5.7 | 5.3 |  |  |  |  |  |  |  |  | 13,408 | 9,633 | 1,509 |  |  |  | 13,408 | 9,633 | 1,509 |
| 6/4/2016 | TRUE | TRUE | FALSE | 3.50 | 8.04 | 5.31 | 66\% | 44\% | 66\% |  | 1.51 | 5.6 | 5.3 |  |  |  |  |  |  |  |  | 13,659 | 9,646 | 1,509 |  |  |  | 13,659 | 9,646 | 1,509 |
| 6/5/2016 | TrUE | TRUE | FALSE | 3.48 | 7.70 | 5.21 | 67\% | 45\% | 68\% |  | 1.48 | 5.6 | 5.3 |  |  |  |  |  |  |  |  | 13,659 | 9,646 | 1,351 |  |  |  | 13,659 | 9,646 | 1,351 |
| 6/6/2016 | TRUE | TRUE | FALSE | 3.44 | 7.24 | 5.31 | 65\% | 48\% | 73\% |  | 1.36 | 5.6 | 5.3 |  |  |  |  |  |  |  |  | 13,659 | 9,646 | 1,351 |  |  |  | 13,659 | 9,646 | 1,351 |
| 6/7/2016 | true | TRUE | FALSE | 3.51 | 7.48 | 5.33 | 66\% | 47\% | 71\% |  | 1.40 | 5.6 | 5.3 |  |  |  |  |  |  |  |  | 13,659 | 9,646 | 1,351 |  |  |  | 13,659 | 9,646 | 1,351 |
| 6/8/2016 | TRUE | TRUE | FALSE | 3.50 | 7.62 | 5.38 | 65\% | 46\% | 71\% |  | 1.42 | 5.6 | 5.3 | 134.70 | 97.00 | 0.72 |  | 6,044 | 4,352 |  |  | 12,136 | 8,322 | 1,351 | 6,044 | 4,352 |  | 12,136 | 8,322 | 1,351 |
| 6/9/2016 | True | TRUE | FALSE | 3.48 | 7.31 | 5.32 | 65\% | 48\% | 73\% |  | 1.37 | 5.5 | 5.3 |  |  |  |  |  |  |  |  | 12,136 | 8,322 | 1,351 |  |  |  | 12,136 | 8,322 | 1,351 |
| 6/10/2016 | True | TRUE | FALSE | 3.40 | 7.61 | 5.29 | 64\% | 45\% | 70\% |  | 1.44 | 5.5 | 5.3 | 289.00 | 229.00 | 0.79 |  | 12,750 | 10,103 |  |  | 12,239 | 8,679 | 1,351 | 12,750 | 10,103 |  | 12,239 | 8,679 | 1,351 |
| 6/11/2016 | TrUE | true | FALSE | 3.41 | 7.73 | 5.10 | 67\% | 44\% | 66\% |  | 1.52 | 5.5 | 5.3 |  |  |  |  |  |  |  |  | 12,720 | 8,381 | 1,351 |  |  |  | 12,720 | 8,381 | 1,351 |
| 6/12/2016 | True | TRUE | FALSE | 3.42 | 7.74 | 5.09 | 67\% | 44\% | 66\% |  | 1.52 | 5.5 | 5.3 |  |  |  |  |  |  |  |  | 12,720 | 8,381 | 1,351 |  |  |  | 12,720 | 8,381 | 1,351 |
| 6/13/2016 | true | TRUE | FALSE | 3.43 | 7.42 | 5.33 | 64\% | 46\% | 72\% |  | 1.39 | 5.5 | 5.3 |  |  |  |  |  |  |  |  | 12,720 | 8,381 | 1,351 |  |  |  | 12,720 | 8,381 | 1,351 |
| 6/14/2016 | True | TRUE | FALSE | 3.44 | 7.10 | 5.28 | 65\% | 48\% | 74\% |  | 1.34 | 5.4 | 5.3 |  |  |  |  |  |  |  |  | 12,720 | 8,381 | 1,351 |  |  |  | 12,720 | 8,381 | 1,351 |
| 6/15/2016 | true | TRUE | FALSE | 3.44 | 7.43 | 5.42 | 63\% | 46\% | 73\% |  | 1.37 | 5.4 | 5.3 | 280.40 | 246.00 | 0.88 |  | 12,675 | 11,120 |  |  | 12,713 | 8,929 | 1,351 | 12,675 | 11,120 |  | 12,713 | 8,929 | 1,351 |
| 6/16/2016 | TRUE | TRUE | ${ }_{\text {FALSE }}$ | 3.45 3.41 | 7.35 7.59 | 5.37 5.38 | ${ }^{64 \%}$ | 47\% | 73\% |  | 1.37 | 5.4 | 5.3 |  |  |  |  |  |  |  |  | 12,713 | 8,929 | 1,351 |  |  |  | 12,713 | 8,929 | 1,351 |
| 6/17/2016 | true | TRUE | TRUE | 3.41 | 7.59 | 5.38 | 63\% | 45\% | 71\% |  | 1.41 | 5.4 | 5.3 | 278.20 | 247.00 | 0.89 |  | 12,483 | 11,083 |  |  | 12,680 | 9,288 | 1,351 | 12,483 | 11,083 |  | 12,680 | 9,288 | 1,351 |
| 6/18/2016 | TRUE | TRUE | ${ }_{\text {TRUE }}^{\text {TRASE }}$ | 3.53 3.40 | 8.01 | 5.29 5 | 67\% | 44\% | ${ }^{66 \%}$ |  | 1.51 | 5.4 | 5.3 |  |  |  |  |  |  |  |  | 12,366 | 9,288 | 1,351 |  |  |  | 12,366 | 9,288 | 1,351 |
| 6/19/2016 | true | TRUE | FALSE | 3.40 | 7.51 | 5.05 | 67\% | 45\% | 67\% |  | 1.49 | 5.4 | 5.3 |  |  |  |  |  |  |  |  | 12,366 | 9,288 | 1,351 |  |  |  | 12,366 | 9,288 | 1,351 |
| 6/20/2016 | True | True | FALSE | 3.38 | 7.23 | 5.17 | 65\% | 47\% | 72\% |  | 1.40 | 5.3 | 5.3 |  |  |  | 30.00 |  |  | 1,294 |  | 12,366 | 9,288 | 1,322 |  |  | 1,294 | 12,366 | 9,288 | 1,322 |
| 6/21/2016 | true | TRUE | FALSE | 3.44 | 7.15 | 5.28 | 65\% | 48\% | 74\% |  | 1.35 | 5.3 | 5.3 |  |  |  |  |  |  |  |  | 12,366 | 9,288 | 1,322 |  |  |  | 12,366 | 9,288 | 1,322 |
| 6/22/2016 | TRUE | TRUE | FALSE | 3.44 | 7.28 | 5.28 | 65\% | 47\% | 73\% |  | 1.38 | 5.3 | 5.3 | 270.40 | 201.00 | 0.74 |  | 11,907 | 8,851 |  |  | 12,300 | 9,225 | 1,322 | 11,907 | 8,851 |  | 12,300 | 9,225 | 1,322 |
| 6/23/2016 | TRUE | TRUE | FALSE | 3.36 | 7.35 | 5.24 | 64\% | 46\% | 71\% |  | 1.40 | 5.3 | 5.3 |  |  |  |  |  |  |  |  | 12,300 | 9,225 | 1,322 |  |  |  | 12,300 | 9,225 | 1,322 |
| 6/24/2016 | True | True | FALSE | 3.44 3.4 | 7.24 | 5.25 | 66\% | 48\% | 73\% |  | 1.38 | 5.3 | 5.2 | 348.60 | 310.00 | 0.89 |  | 15,263 | 13,573 |  |  | 12,671 | 9,769 | 1,322 | 15,263 | 13,573 |  | 12,671 | 9,769 | 1,322 |
| 6/25/2016 | TRUE | TRUE | FALSE | 3.45 | 7.30 | 5.02 | 69\% | 47\% | 69\% |  | 1.45 | 5.3 | 5.2 |  |  |  |  |  |  |  |  | 12,671 | 9,769 | 1,322 |  |  |  | 12,671 | 9,769 | 1,322 |
| 6/26/2016 | True | True | FALSE | 3.42 3.4 | 7.35 | 5.03 | 68\% | 47\% | 68\% |  | 1.46 | 5.3 | 5.2 |  |  |  |  |  |  |  |  | 12,671 | 9,769 | 1,322 |  |  |  | 12,671 | 9,769 | 1,322 |
| 6/27/2016 | TRUE | TRUE | FALSE | 3.44 | 7.41 | 5.26 | 65\% | 46\% | 71\% |  | 1.41 | 5.3 | 5.2 |  |  |  |  |  |  |  |  | 12,439 | 9,628 | 1,322 |  |  |  | 12,439 | 9,628 | 1,322 |
| 6/28/2016 | true | True | FALSE | 3.53 | 7.36 | 5.25 | 67\% | 48\% | 71\% |  | 1.40 | 5.3 | 5.2 |  |  |  |  |  |  |  |  | 12,439 | 9,628 | 1,322 |  |  |  | 12,439 | 9,628 | 1,322 |
| 6/29/2016 | TRUE | TRUE | FALSE | 3.43 | 7.18 | 5.29 | 65\% | 48\% | 74\% |  | 1.36 | 5.3 | 5.2 |  |  |  |  |  |  |  |  | 12,439 | 9,628 | 1,322 |  |  |  | 12,439 | 9,628 | 1,322 |
| 6/30/2016 | true | True | FALSE | 3.52 | 7.02 | 5.23 | 67\% | 50\% | 75\% |  | 1.34 | 5.3 | 5.2 | 284.40 | 184.00 | 0.65 |  | 12,405 | 8,026 |  |  | 12,435 | 9,428 | 1,322 | 12,405 | ${ }^{8,026}$ |  | 12,435 | 9,428 | 1,322 |
| 7/1/2016 | TRUE | TRUE | FALSE | 3.45 | 7.41 | 5.21 | 66\% | 47\% | 70\% |  | 1.42 | 5.3 | 5.2 | 262.60 | 216.00 | 0.82 |  | 12,410 | 9,386 |  |  | 12,321 | 9,423 | 1,322 | 11,410 | 9,386 |  | 12,321 | 9,423 | 1,322 |
| 7/2/2016 | true | True | FALSE | 3.44 | 7.02 | 4.94 | 70\% | 49\% | 70\% | MinAvg | 1.42 | 5.3 | 5.2 |  |  |  |  |  |  |  |  | 11,867 | 9,562 | 1,322 |  |  |  | 11,867 | 9,562 | 1,322 |
| 7/3/2016 | TRUE | TRUE | FALSE | 1.34 | 6.87 | 4.75 | 28\% | 20\% | 69\% | inAvgMinM | 1.45 | 5.3 | 5.2 |  |  |  |  |  |  |  |  | 11,867 | 9,562 | 1,294 |  |  |  | 11,867 | 9,562 | 1,294 |
| 7/4/2016 | True | TRUE | FALSE | 3.42 | 7.26 | 4.86 | 70\% | 47\% | 67\% | MinAvg | 1.49 | 5.2 | 5.2 |  |  |  |  |  |  |  |  | 11,867 | 9,562 | 1,294 |  |  |  | 11,867 | 9,562 | 1,294 |
| 7/5/2016 | TRUE | TRUE | FALSE | 3.44 | 7.43 | 5.18 | 66\% | 46\% | 70\% |  | 1.43 | 5.2 | 5.2 |  |  |  |  |  |  |  |  | 11,867 | 9,562 | 1,294 |  |  |  | 11,867 | 9,562 | 1,294 |
| 7/6/2016 | true | true | FALSE | 3.47 | 7.21 | 4.90 | 71\% | 48\% | 68\% | MinAvg | 1.47 | 5.2 | 5.2 | 293.00 | 201.00 | 0.69 |  | 11,974 | 8,214 |  |  | 11,879 | 9,412 | 1,294 | 11,974 | 8,214 |  | 11,879 | 9,412 | 1,294 |
| 7/7/2016 | TRUE | TRUE | FALSE | 3.50 | 7.23 | 5.67 | 62\% | 48\% | 78\% |  | 1.28 | 5.3 | 5.3 |  |  |  |  |  |  |  |  | 11,879 | 9,412 | 1,294 |  |  |  | 11,879 | 9,412 | 1,294 |
| 7/8/2016 | TRUE | TRUE | FALSE | 3.42 | 7.66 | 5.34 | 64\% | 45\% | 70\% |  | 1.43 | 5.3 | 5.4 |  |  |  |  |  |  |  |  | 11,879 | 9,412 | 1,294 |  |  |  | 11,879 | 9,412 | 1,294 |
| 7/9/2016 | TRUE | TRUE | FALSE | 3.42 | 7.68 | 5.16 | 66\% | 45\% | 67\% |  | 1.49 | 5.3 | 5.3 |  |  |  |  |  |  |  |  | 12,608 | 10,044 | 1,294 |  |  |  | 12,608 | 10,044 | 1,294 |
| 7/10/2016 | True | TRUE | FALSE | 3.37 | 7.61 | 5.09 | 66\% | 44\% | 67\% |  | 1.50 | 5.2 | 5.3 |  |  |  |  |  |  |  |  | 12,608 | 10,044 | 1,294 |  |  |  | 12,608 | 10,044 | 1,294 |
| 7/11/2016 | TRUE | TRUE | FALSE | 3.33 | 7.24 | 5.22 | 64\% | 46\% | 72\% |  | 1.39 | 5.2 | 5.3 |  |  |  |  |  |  |  |  | 12,588 | 10,036 | 1,294 |  |  |  | 12,588 | 10,036 | 1,294 |
| 7/12/2016 | TRUE | TRUE | FALSE | 3.39 | 7.54 | 5.30 | 64\% | 45\% | 70\% |  | 1.42 | 5.2 | 5.3 |  |  |  |  |  |  |  |  | 12,588 | 10,036 | 1,294 |  |  |  | 12,588 | 10,036 | 1,294 |
| 7/13/2016 | TRUE | TRUE | FALSE | 3.40 | 7.15 | 5.29 | 64\% | 48\% | 74\% |  | 1.35 | 5.3 | 5.3 |  |  |  |  |  |  |  |  | 12,588 | 10,036 | 1,294 |  |  |  | 12,588 | 10,036 | 1,294 |
| 7/14/2016 | True | TRUE | FALSE | 3.45 | 7.30 | 5.30 | 65\% | 47\% | 73\% |  | 1.38 | 5.3 | 5.3 |  |  |  |  |  |  |  |  | 12,588 | 10,036 | 1,294 |  |  |  | 12,588 | 10,036 | 1,294 |
| 7/15/2016 | TRUE | TRUE | FALSE | 3.39 | 7.24 | 5.25 | 65\% | 47\% | 73\% |  | 1.38 | 5.3 | 5.2 | 275.60 | 205.00 | 0.74 |  | 12,067 | 8,976 |  |  | 12,523 | 9,904 | 1,294 | 12,067 | 8,976 |  | 12,523 | 9,904 | 1,294 |
| 7/16/2016 | True | TRUE | FALSE | 3.37 | 7.28 | 5.06 | 67\% | 46\% | 70\% |  | 1.44 | 5.2 | 5.2 |  |  |  |  |  |  |  |  | 12,501 | 9,730 | 1,294 |  |  |  | 12,501 | 9,730 | 1,294 |
| 7/17/2016 | TRUE | TRUE | FALSE | 3.38 | 7.30 | 5.10 | 66\% | 46\% | 70\% |  | 1.43 | 5.2 | 5.2 |  |  |  |  |  |  |  |  | 12,501 | 9,730 | 1,294 |  |  |  | 12,501 | 9,730 | 1,294 |
| 7/18/2016 | TRUE | TRUE | FALSE | 3.37 | 7.51 | 5.28 | 64\% | 45\% | 70\% |  | 1.42 | 5.2 | 5.2 |  |  |  |  |  |  |  |  | 12,504 | 9,504 | 1,294 |  |  |  | 12,504 | 9,504 | 1,294 |
| 7/19/2016 | TRUE | TRUE | FALSE | 3.43 | 7.41 | 5.35 | 64\% | 46\% | 72\% |  | 1.39 | 5.2 | 5.2 |  |  |  |  |  |  |  |  | 12,504 | 9,504 | 1,294 |  |  |  | 12,504 | 9,504 | 1,294 |
| 7/20/2016 | TRUE | TRUE | FALSE | 3.41 | 7.19 | 5.31 | 64\% | 47\% | 74\% |  | 1.35 | 5.2 | 5.2 | 270.50 |  |  |  | 11,979 |  |  |  | 12,429 | 9,504 | 1,294 | 11,979 |  |  | 12,429 | 9,504 | 1,294 |
| 7/21/2016 | TRUE | ${ }_{\text {TRUE }}^{\text {TRUE }}$ | ${ }^{\text {FALSE }}$ | 3.45 3.48 | 7.55 | 5.29 5 5 | 65\% | 46\% | 70\% |  | 1.43 | 5.2 | 5.2 |  |  |  |  |  |  |  |  | 12,429 | 9,504 |  |  |  |  | 12,429 | 9,504 |  |
| 7/22/2016 | TRUE | TRUE | ${ }^{\text {FALSE }}$ | 3.48 <br> 3.44 | 6.85 7.58 | ${ }_{5}^{5.22}$ | 67\% | 51\% | ${ }^{76 \%}$ |  | 1.31 1.51 | 5.2 | 5.2 | 250.90 | 183.00 | 0.73 |  | 10,923 | 7,967 |  |  | 12,241 | 9,285 |  | 10,923 | 7,967 |  | 12,241 12289 | 9,285 |  |
| 7/23/2016 | TRUE | ${ }_{\text {TRUE }}^{\text {TRUE }}$ | ${ }^{\text {FALSE }}$ | 3.44 3.44 | 7.58 | 5.01 | ${ }^{69 \%}$ | 45\% | 66\% |  | 1.51 | 5.2 | 5.2 |  |  |  |  |  |  |  |  | 12,289 | 9,357 |  |  |  |  | 12,289 | 9,357 |  |
| $7 / 24 / 2016$ $7 / 25 / 216$ | TRUE | TRUE | ${ }^{\text {FALSE }}$ | 3.44 3 | 7.29 7 7.56 | 4.97 5 5 | 69\% | 47\% | 68\% |  | 1.47 1.44 | 5.2 5.2 | 5.2 5.2 |  |  |  |  |  |  |  |  | 12,289 11,793 | 9,357 8,514 |  |  |  |  | 12,289 11,793 | $\begin{aligned} & 9,357 \\ & 8,514 \end{aligned}$ |  |
| 7/25/2016 | TRUE TRUE | TRUE | ${ }^{\text {FALSE }}$ FALSE | 3.42 3.46 | 7.56 7.13 | 5.24 5.22 | 65\% | 45\% | 69\% |  | 1.44 1.37 | 5.2 5.2 | 5.2 5.2 |  |  |  |  |  |  |  |  | 11,793 11,793 | 8,514 8,514 |  |  |  |  | 11,793 11,793 | $\begin{array}{r} 8,514 \\ 8,514 \end{array}$ |  |
| 7/27/2016 | True | TRUE | FALSE | 3.46 | 7.18 | 5.31 | 65\% | 48\% | 74\% |  | 1.35 | 5.2 | 5.2 | 258.20 | 202.00 | 0.78 |  | 11,434 | 8,946 |  |  | 11,742 | 8,586 |  | 11,434 | 8,946 |  | 11,742 | 8,586 |  |
| 7/28/2016 | TRUE | TRUE | FALSE | 3.53 | 7.52 | 5.31 | 66\% | 47\% | 71\% |  | 1.42 | 5.2 | 5.2 |  |  |  |  |  |  |  |  | 11,742 | 8,586 |  |  |  |  | 11,742 | 8,586 |  |


| Date | Butte <br> Break? | $\begin{gathered} \text { CSU } \\ \text { Break? } \end{gathered}$ | Precip? | $\min _{\substack{\text { Influent } \\ \text { Flow, mgd }}}^{\text {mand }}$ | $\max _{\substack{\text { Influent } \\ \text { Alow, mgd }}}^{\text {Fid }}$ | $\begin{gathered} \text { Avg } \\ \text { Influent } \\ \text { Flow, } \mathrm{mgd} \end{gathered}$ | $\underset{\text { Min } \% \text { of }}{\substack{\text { Avg }}}$ | $\underset{\text { Max }}{\min _{2} \text { of }}$ | $\begin{aligned} & \text { Avg \% of } \\ & \text { max } \end{aligned}$ | $\begin{aligned} & \text { Flow } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | $\begin{aligned} & \text { Diural } \\ & \text { Peak } \\ & \text { Factor } \\ & \text { (DPF) } \end{aligned}$ | $\begin{gathered} \text { 30-d Avg } \\ \text { of Avg } \\ \text { Flow, mgd } \end{gathered}$ | 7-d Avg of Avg Flow, mgd | Influent TSS Conc., mg/L | $\begin{aligned} & \text { Influent } \\ & \text { BoD } \\ & \text { Cong., } \\ & \mathrm{mg} / \mathrm{L} \end{aligned}$ | BOD/Tss | Influent NH3-N Conc., mg/L | Avg linf TSS Load, ppd | Avg Inf BOD Load, ppd | Avg $\operatorname{lnf}$ NH3 Load, ppd | $\begin{aligned} & \text { Load } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | $\begin{gathered} \text { 30-d Avg } \\ \text { of TSs } \\ \text { Lood, ppd } \end{gathered}$ | 30-d Avg of BOD Load, ppd | 30-d Avg of $\mathrm{NH} 3-\mathrm{N}$ Load, ppd | non-SN TSS Load, ppd | $\begin{gathered} \text { non-SN } \\ \text { BOD Load, } \\ \text { ppd } \end{gathered}$ | non-SN ppd | $\begin{aligned} & \text { 30-d Avg } \\ & \text { of non-SN } \\ & \text { TSS Load, } \\ & \text { ppd } \end{aligned}$ | $\begin{gathered} \text { 30-d Avg } \\ \text { of non-SN } \\ \text { BOD Load, } \\ \text { ppd } \end{gathered}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 7/29/2016 | TRUE | TRUE | FALSE | 3.46 | 7.53 | 5.25 | 66\% | 46\% | 70\% |  | 1.43 | 5.2 | 5.2 | 250.00 | 177.00 | 0.71 |  | 10,946 | 7,750 |  |  | 11,642 | 8,466 |  | 10,946 | 7,750 |  | 11,642 | 8,466 |  |
| 7/30/2016 | true | TRUE | FALSE | 3.51 | 7.26 | 5.07 | 69\% | 48\% | 70\% |  | 1.43 | 5.2 | 5.2 |  |  |  |  |  |  |  |  | 11,642 | 8,466 |  |  |  |  | 11,642 | 8,466 |  |
| 7/31/2016 | true | true | false | 3.44 | 7.36 | 5.06 | 68\% | 47\% | 69\% |  | 1.45 | 5.2 | 5.2 |  |  |  |  |  |  |  |  | 11,533 | 8,540 |  |  |  |  | 11,533 | 8,540 |  |
| 8/1/2016 | true | true | FALSE | 3.46 | 7.51 | 5.28 | 66\% | 46\% | 70\% |  | 1.42 | 5.2 | 5.2 |  |  |  |  |  |  |  |  | 11,554 | 8,370 |  |  |  |  | 11,554 | 8,370 |  |
| 8/2/2016 | true | true | false | 3.47 | 7.14 | 5.25 | 66\% | 49\% | 74\% |  | 1.36 | 5.2 | 5.2 |  |  |  |  |  |  |  |  | 11,554 | 8,370 |  |  |  |  | 11,554 | 8,370 |  |
| 8/3/2016 | true | true | FALSE | 3.46 | 7.39 | 5.34 | 65\% | 47\% | 72\% |  | 1.38 | 5.2 | 5.2 |  |  |  |  |  |  |  |  | 11,554 | 8,370 |  |  |  |  | 11,554 | 8,370 |  |
| 8/4/2016 | true | TRUE | FALSE | 3.55 | 7.21 | 5.32 | 67\% | 49\% | 74\% |  | 1.36 | 5.2 | 5.2 | 288.00 | 173.00 | 0.60 |  | 12,778 | 7,676 |  |  | 11,729 | 8,255 |  | 12,778 | 7,676 |  | 11,729 | 8,255 |  |
| 8/5/2016 | true | TRUE | FALSE | 3.41 | 7.54 | 5.28 | 65\% | 45\% | 70\% |  | 1.43 | 5.2 | 5.2 | 264.20 | 170.00 | 0.64 |  | 11,634 | 7,486 |  |  | 11,717 | 8,145 |  | 11,634 | 7,486 |  | 11,717 | 8,145 |  |
| 8/6/2016 | true | true | FALSE | 3.45 | 7.47 | 5.15 | 67\% | 46\% | 69\% |  | 1.45 | 5.2 | 5.2 |  |  |  |  |  |  |  |  | 11,680 | 8,133 |  |  |  |  | 11,680 | 8,133 |  |
| 8/7/2016 | true | true | FALSE | 3.41 | 7.70 | 5.21 | 65\% | 44\% | 68\% |  | 1.48 | 5.2 | 5.2 |  |  |  |  |  |  |  |  | 11,680 | 8,133 |  |  |  |  | 11,680 | 8,133 |  |
| 8/8/2016 | true | true | FALSE | 3.46 | 7.57 | 5.35 | 65\% | 46\% | 71\% |  | 1.41 | 5.2 | 5.3 |  |  |  |  |  |  |  |  | 11,680 | 8,133 |  |  |  |  | 11,680 | 8,133 |  |
| 8/9/2016 | TRUE | TRUE | FALSE | 3.51 | 7.48 | 5.41 | 65\% | 47\% | 72\% |  | 1.38 | 5.2 | 5.3 |  |  |  |  |  |  |  |  | 11,680 | 8,133 |  |  |  |  | 11,680 | 8,133 |  |
| 8/10/2016 | TRUE | TRUE | FALSE | 3.46 | 7.55 | 5.49 | 63\% | 46\% | 73\% |  | 1.38 | 5.2 | 5.3 | 246.20 | 123.00 | 0.50 |  | 11,273 | 5,632 |  |  | 11,629 | 7,776 |  | 11,273 | 5,632 |  | 11,629 | 7,776 |  |
| 8/11/2016 | TRUE | true | FALSE | 3.48 | 7.59 | 5.41 | 64\% | 46\% | 71\% |  | 1.40 | 5.2 | 5.3 |  |  |  |  |  |  |  |  | 11,629 | 7,776 |  |  |  |  | 11,629 | 7,776 |  |
| 8/12/2016 | true | true | FALSE | 3.33 | 7.94 | 5.42 | 61\% | 42\% | 68\% |  | 1.46 | 5.3 | 5.3 |  |  |  |  |  |  |  |  | 11,629 | 7,776 |  |  |  |  | 11,629 | 7,776 |  |
| 8/13/2016 | true | true | FALSE | 3.47 | 8.15 | 5.29 | 66\% | 43\% | 65\% |  | 1.54 | 5.3 | 5.3 |  |  |  |  |  |  |  |  | 11,629 | 7,776 |  |  |  |  | 11,629 | 7,776 |  |
| 8/14/2016 | true | TRUE | FALSE | 3.41 | 7.90 | 5.28 | 65\% | 43\% | 67\% |  | 1.50 | 5.3 | 5.4 |  |  |  |  |  |  |  |  | 11,629 | 7,776 |  |  |  |  | 11,629 | 7,776 |  |
| 8/15/2016 | true | True | FALSE | 3.44 | 13.15 | 5.59 | 62\% | 26\% | 43\% | AvgMax | 2.35 | 5.3 | 5.4 |  |  |  |  |  |  |  |  | 11,567 | 7,576 |  |  |  |  | 11,567 | 7,576 |  |
| 8/16/2016 | true | true | FALSE | 3.42 | 7.89 | 5.66 | 60\% | 43\% | 72\% |  | 1.39 | 5.3 | 5.4 |  |  |  |  |  |  |  |  | 11,567 | 7,576 |  |  |  |  | 11,567 | 7,576 |  |
| 8/17/2016 | true | true | FALSE | 3.47 | 8.07 | 5.68 | 61\% | 43\% | 70\% |  | 1.42 | 5.3 | 5.5 | 285.00 | 190.00 | 0.67 |  | 13,501 | 9,001 |  |  | 11,809 | 7,780 |  | 13,501 | 9,001 |  | 11,809 | 7,780 |  |
| 8/18/2016 | true | true | FALSE | 3.47 | 8.47 | 5.74 | 60\% | 41\% | 68\% |  | 1.48 | 5.3 | 5.5 |  |  |  | 28.90 |  |  | 1,383 |  | 11,809 | 7,780 | 1,383 |  |  | 1,383 | 11,809 | 7,780 | 1,383 |
| 8/19/2016 | true | true | FALSE | 3.44 | 7.99 | 5.76 | 60\% | 43\% | 72\% |  | 1.39 | 5.3 | 5.5 | 255.00 | 167.00 | 0.65 |  | 12,250 | 8,022 |  |  | 11,858 | 7,810 | 1,383 | 12,250 | 8,022 |  | 11,858 | 7,810 | 1,383 |
| 8/20/2016 | true | true | false | 3.46 | 8.87 | 5.73 | 60\% | 39\% | 65\% |  | 1.55 | 5.3 | 5.6 |  |  |  |  |  |  |  |  | 11,842 | 7,810 | 1,383 |  |  |  | 11,842 | 7,810 | 1,383 |
| 8/21/2016 | TRUE | TRUE | FALSE | 3.45 | 9.10 | 5.85 | 59\% | 38\% | 64\% |  | 1.56 | 5.4 | 5.7 |  |  |  |  |  |  |  |  | 11,842 | 7,810 | 1,383 |  |  |  | 11,842 | 7,810 | 1,383 |
| 8/22/2016 | TRUE | true | false | 3.45 | 8.79 | 5.82 | 59\% | 39\% | 66\% |  | 1.51 | 5.4 | 5.7 |  |  |  |  |  |  |  |  | 11,974 | 7,787 | 1,383 |  |  |  | 11,974 | 7,787 | 1,383 |
| 8/23/2016 | FALSE | FALSE | FALSE | 3.45 | 8.61 | 5.81 | 59\% | 40\% | 67\% |  | 1.48 | 5.4 | 5.8 |  |  |  |  |  |  |  |  | 11,974 | 7,787 7,787 | 1,383 |  |  |  | 11,974 | 7,787 | 1,383 <br> 183 |
| 8/24/2016 | FALSE | FALSE | FALSE | 3.43 | 8.68 | 5.87 | 58\% | 40\% | 68\% |  | 1.48 | 5.4 | 5.8 | 265.00 |  |  |  | 12,973 |  |  |  | 12,099 | 7,787 | 1,383 | 12,973 |  |  | 12,099 | 7,787 | 1,383 |
| 8/25/2016 | FALSE | FALSE | FALSE | 3.49 | 8.72 | 5.82 | 60\% | 40\% | 67\% |  | 1.50 | 5.4 | 5.8 |  |  |  |  |  |  |  |  | 12,099 | 7,787 | 1,383 |  |  |  | 12,099 | 7,787 | 1,383 |
| 8/26/2016 | FALSE | FALSE | FALSE | 3.50 | 8.41 | 5.87 | 60\% | 42\% | 70\% |  | 1.43 | 5.5 | 5.8 | 232.00 | 211.00 | 0.91 |  | 11,358 | 10,330 |  |  | 12,016 | 8,105 | 1,383 | 11,358 | 10,330 |  | 12,016 | 8,105 | 1,383 |
| 8/27/2016 | FALSE | FALSE | FALSE | 3.49 | 9.03 | 5.72 | 61\% | 39\% | 63\% |  | 1.58 | 5.5 | 5.8 |  |  |  |  |  |  |  |  | 12,089 | 7,985 | 1,383 |  |  |  | 12,089 | 7,985 | 1,383 |
| 8/28/2016 | FALSE | FALSE | FALSE | 3.39 | 8.97 | 5.81 | 58\% | 38\% | 65\% |  | 1.54 | 5.5 | 5.8 |  |  |  |  |  |  |  |  | 12,089 | 7,985 | 1,383 |  |  |  | 12,089 | 7,985 | 1,383 |
| 8/29/2016 | FALSE | FALSE | FALSE | 3.48 | 8.79 | 5.94 | 59\% | 40\% | 68\% |  | 1.48 | 5.5 | 5.8 |  |  |  |  |  |  |  |  | 12,252 | 8,024 | 1,383 |  |  |  | 12,252 | 8,024 | 1,383 |
| 8/30/2016 | FALSE | FALSE | FALSE | 3.39 | 8.58 | 5.91 | 57\% | 40\% | 69\% |  | 1.45 | 5.6 | 5.8 |  |  |  |  |  |  |  |  | 12,252 | 8,024 | 1,383 |  |  |  | 12,252 | 8,024 | 1,383 |
| 8/31/2016 | FALSE | FALSE | FALSE | 3.44 | 8.75 | 5.89 | 58\% | 39\% | 67\% |  | 1.49 | 5.6 | 5.9 |  |  |  |  |  |  |  |  | 12,252 | 8,024 | 1,383 |  |  |  | 12,252 | 8,024 | 1,383 |
| 9/1/2016 | FALSE | FALSE | FALSE | 3.46 | 9.32 | 6.02 | 57\% | 37\% | 65\% |  | 1.55 | 5.6 | 5.9 |  |  |  |  |  |  |  |  | 12,252 | 8,024 | 1,383 |  |  |  | 12,252 | 8,024 | 1,383 |
| 9/2/2016 | FALSE | FALSE | FALSE | 3.56 | 8.52 | 5.92 | 60\% | 42\% | 69\% |  | 1.44 | 5.6 | 5.9 | 258.00 | 191.00 | 0.74 |  | 12,738 | 9,430 |  |  | 12,313 | 8,225 | 1,383 | 12,738 | 9,430 |  | 12,313 | 8,225 | 1,383 |
| 9/3/2016 | FALSE | FALSE | FALSE | 3.50 | 8.93 | 5.64 | 62\% | 39\% | 63\% |  | 1.58 | 5.6 | 5.9 |  |  |  |  |  |  |  |  | 12,313 | 8,225 | 1,383 |  |  |  | 12,313 | 8,225 | 1,383 |
| 9/4/2016 | FALSE | FALSE | FALSE | 3.41 | 8.88 | 5.54 | 62\% | 38\% | 62\% |  | 1.50 | 5.6 | 5.8 |  |  |  |  |  |  |  |  | 12,247 | 8,317 | 1,383 |  |  |  | 12,247 | 8,317 | 1,383 |
| 9/5/2016 | FALSE | FALSE | FALSE | 3.46 | 9.05 | 5.73 | 60\% | 38\% | 63\% |  | 1.58 | 5.7 | 5.8 |  |  |  |  |  |  |  |  | 12,349 | 8,483 | 1,383 |  |  |  | 12,349 | 8,483 | 1,383 |
| 9/6/2016 | FALSE | FALSE | FALSE | 3.42 | 8.55 | 5.93 | 58\% | 40\% | 69\% |  | 1.44 | 5.7 | 5.8 |  |  |  |  |  |  |  |  | 12,349 | 8,483 | 1,383 |  |  |  | 12,349 | 8,483 | 1,383 |
| 9/7/2016 | FALSE | FALSE | FALSE | 3.50 | 8.76 | 5.97 | 59\% | 40\% | 68\% |  | 1.47 | 5.7 | 5.8 | 253.70 |  |  |  | 12,632 |  |  |  | 12,389 | 8,483 | 1,383 | 12,632 |  |  | 12,389 | 8,483 | 1,383 |
| 9/8/2016 | FALSE | FALSE | FALSE | 3.52 | 8.59 | 5.99 | 59\% | 41\% | 70\% |  | 1.43 | 5.7 | 5.8 |  |  |  |  |  |  |  |  | 12,389 | 8,483 | 1,383 |  |  |  | 12,389 | 8,483 | 1,383 |
| 9/9/2016 | FALSE | FALSE | FALSE | 3.42 | 8.50 | 5.99 | 57\% | 40\% | 70\% |  | 1.42 | 5.8 | 5.8 | 272.80 | 174.00 | 0.64 |  | 13,628 | 8,692 |  |  | 12,544 | 8,518 | 1,383 | 13,628 | 8,692 |  | 12,544 | 8,518 | 1,383 |
| 9/10/2016 | FALSE | FALSE | FALSE | 3.55 | 8.94 | 5.87 | 60\% | 40\% | 66\% |  | 1.52 | 5.8 | 5.8 |  |  |  |  |  |  |  |  | 12,726 | 9,095 | 1,383 |  |  |  | 12,726 | 9,095 | 1,383 |
| 9/11/2016 | FALSE | FALSE | FALSE | 3.45 | 8.99 | 5.85 | 59\% | 38\% | 65\% |  | 1.54 | 5.8 | 5.9 |  |  |  |  |  |  |  |  | 12,726 | 9,095 | 1,383 |  |  |  | 12,726 | 9,095 | 1,383 |
| 9/12/2016 | FALSE | FALSE | FALSE | 3.47 | 8.51 | 6.02 | 58\% | 41\% | 71\% |  | 1.41 | 5.8 | 5.9 |  |  |  |  |  |  |  |  | 12,726 | 9,095 | 1,383 |  |  |  | 12,726 | 9,095 | 1,383 |
| 9/13/2016 | FALSE | FALSE | FALSE | 3.53 | 8.81 | 6.00 | 59\% | 40\% | 68\% |  | 1.47 | 5.8 | 6.0 |  |  |  |  |  |  |  |  | 12,726 | 9,095 | 1,383 |  |  |  | 12,726 | 9,095 | 1,383 |
| 9/14/2016 | FALSE | FALSE | FALSE | 3.50 | 8.96 | 5.94 | 59\% | 39\% | 66\% |  | 1.51 | 5.8 | 6.0 | 167.00 |  |  |  | 8,273 |  |  |  | 12,169 | 9,095 | 1,383 | 8,273 |  |  | 12,169 | 9,095 | 1,383 |
| 9/15/2016 | FALSE | FALSE | FALSE | 3.51 | 8.76 | 5.93 | 59\% | 40\% | 68\% |  | 1.48 | 5.8 | 5.9 |  |  |  |  |  |  |  |  | 12,169 | 9,095 | 1,383 |  |  |  | 12,169 | 9,095 | 1,383 |
| 9/16/2016 | FALSE | FALSE | FALSE | 3.51 | 17.50 | 5.91 | 59\% | 20\% | 34\% | inMaxAvgM | 2.96 | 5.9 | 5.9 | 244.60 | 176.00 | 0.72 |  | 12,056 | 8,675 |  |  | 12,157 | 9,025 | 1,383 | 12,056 | 8,675 |  | 12,157 | 9,025 | 1,383 |
| 9/17/2016 | FALSE | FALSE | FALSE | 3.60 | 7.95 | 5.69 | 63\% | 45\% | 72\% |  | 1.40 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 11,989 | 9,030 | 1,383 |  |  |  | 11,989 | 9,030 | 1,383 |
| 9/18/2016 | FALSE | FALSE | FALSE | 3.51 | 8.04 | 5.77 | 61\% | 44\% | 72\% |  | 1.39 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 11,989 | 9,030 |  |  |  |  | 11,989 | 9,030 |  |
| 9/19/2016 | FALSE | FALSE | FALSE | 3.54 | 8.68 | 5.89 | 60\% | 41\% | 68\% |  | 1.47 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 11,951 | 9,282 |  |  |  |  | 11,951 | 9,282 |  |
| 9/20/2016 | FALSE | FALSE | FALSE | 3.52 | 8.71 | 5.87 | 60\% | 40\% | 67\% |  | 1.48 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 11,951 | 9,282 |  |  |  |  | 11,951 | 9,282 |  |
| 9/21/2016 | FALSE | FALSE | ${ }_{\text {FALSE }}$ | 3.50 <br> 3.55 | 8.69 8.55 | $\begin{aligned} & 5.90 \\ & 5.93 \\ & 5 . \end{aligned}$ | 59\% | 40\% | 68\% |  | 1.47 1.44 | 5.9 5 | 5.9 5 | 250.50 | 169.00 | 0.67 | 29.20 | 12,326 | 8,316 | 1,444 |  | 11,998 11,998 | 9,089 | 1,444 | 12,326 | 8,316 | 1.444 | 11,998 | 9,089 | 1,444 |
| 9/2/23/2016 | ${ }_{\text {FALLSE }}$ | ${ }_{\text {FALSE }}$ | ${ }_{\text {FALISE }}$ | 3.55 3.50 | 8.55 8.27 | 5.93 5.90 | 59\% | 42\% | 71\% |  | 1.44 1.40 | 5.9 | 5.9 | 272.70 | 228.00 | 0.84 | 29.20 | 13,418 | 11,219 |  |  | 11,298 | 9,444 | 1,444 | 13,418 | 11,219 |  | 112,159 | 9,084 | 1,444 1,444 1 |
| 9/24/2016 | false | False | false | 3.60 | 8.35 | 5.79 | 62\% | 43\% | 69\% |  | 1.44 | 5.9 | 5.8 |  |  |  |  |  |  |  |  | 12,054 | 9,444 | 1,444 |  |  |  | 12,054 | 9,444 | 1,444 |
| 9/25/2016 | false | FALSE | FALSE | 3.50 | 8.12 | 5.72 | 61\% | 43\% | 70\% |  | 1.42 | 5.9 | 5.8 |  |  |  |  |  |  |  |  | 12,054 | 9,444 | 1,444 |  |  |  | 12,054 | 9,444 | 1,444 |
| 9/26/2016 | false | False | false | 3.56 | 7.77 | 5.86 | 61\% | 46\% | 75\% |  | 1.33 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 12,153 | 9,266 | 1,444 |  |  |  | 12,153 | 9,266 | 1,444 |
| 9/27/2016 | FALSE | FALSE | FALSE | 3.54 | 8.06 | 5.96 | 59\% | 44\% | 74\% |  | 1.35 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 12,153 | 9,266 | 1,444 |  |  |  | 12,153 | 9,266 | 1,444 |
| 9/28/2016 | FALSE | FALSE | FALSE | 3.52 | 8.16 | 5.95 | 59\% | 43\% | 73\% |  | 1.37 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 12,153 | 9,266 | 1,444 |  |  |  | 12,153 | 9,266 | 1,444 |
| 9/29/2016 | false | FALSE | false | 3.58 | 8.18 | 6.01 | 60\% | 44\% | 73\% |  | 1.36 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 12,153 | 9,266 | 1,444 |  |  |  | 12,153 | 9,266 | 1,444 |


| Date | $\begin{aligned} & \text { Butte } \\ & \text { Break? } \end{aligned}$ | $\underset{\text { Break? }}{\text { csu }}$ | Precip? | $\begin{gathered} \mathbf{M i n}_{\substack{\text { Influent } \\ \text { Flow, } \\ \text { mgg }}} \end{gathered}$ | $\begin{gathered} \text { Max } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | $\begin{gathered} \text { Avg } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | $\begin{aligned} & \text { Min \% of } \\ & \text { Avg } \end{aligned}$ | $\underset{\operatorname{Max}}{\min _{2} \text { of }}$ | $\begin{aligned} & \text { Avg \% of } \\ & \text { max } \end{aligned}$ | $\begin{aligned} & \text { Flow } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | $\begin{aligned} & \text { Diurnal } \\ & \text { Peak } \\ & \text { Factor } \\ & \text { (DPF) } \end{aligned}$ | $\begin{gathered} \text { 30-d Avg } \\ \text { of Avg } \\ \text { Flow, mgd } \end{gathered}$ | 7-d Avg of Avg Flow, mgd | Influent TSS Conc. mg/L | $\begin{aligned} & \text { Influent } \\ & \text { BoD } \\ & \text { Conc, } \\ & \text { mg/L } \end{aligned}$ | $\begin{aligned} & \text { BoD/TSS } \\ & \text { Ratio } \end{aligned}$ | Influent NH3-N Conc., mg/L | Avg lnf TSS Load, ppd | $\begin{aligned} & \text { Avg Inf } \\ & \text { BOD Load, } \\ & \text { ppd } \end{aligned}$ | Avg Inf NH3 Load, ppd | $\begin{aligned} & \text { Load } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | 30-d Avg Load, ppd | 30-d Avg of BOD Load, ppd | 30-d Avg of NH3-N Load, ppd | non-SN TSS Load, ppd | non-SN ppd | non-SN NH3 Load, ppd | $\begin{aligned} & \text { 30-d Avg } \\ & \text { of non-SN } \\ & \text { TSS Load, } \\ & \text { ppd } \end{aligned}$ | $\begin{gathered} \text { 30-d Avg } \\ \text { of non-SN } \\ \text { BOD Load, } \\ \text { ppd } \end{gathered}$ | $\begin{aligned} & \begin{array}{c} 0-\mathrm{d} \text { Avg } \\ \text { of non-SN } \\ \text { NH3 } 3 \text { N- } \\ \text { Load, ppd } \end{array} \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 9/30/2016 | FALSE | FALSE | FALSE | 3.57 | 8.37 | 6.09 | 59\% | 43\% | 73\% |  | 1.37 | 5.9 | 5.9 | 238.50 | 191.00 | 0.80 |  | 12,114 | 9,701 |  |  | 12,148 | 9,339 | 1,444 | 12,114 | 9,701 |  | 12,148 | 9,339 | 1,444 |
| 10/1/2016 | FALSE | FALSE | FALSE | 3.54 | 8.41 | 5.82 | 61\% | 42\% | 69\% |  | 1.45 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 12,148 | 9,339 | 1,444 |  |  |  | 12,148 | 9,339 | 1,444 |
| 10/2/2016 | FALSE | FALSE | True | 3.42 | 9.12 | 6.15 | 56\% | 38\% | 67\% |  | 1.48 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 12,148 | 9,339 | 1,444 |  |  |  | 12,148 | 9,339 | 1,444 |
| 10/3/2016 | FALSE | FALSE | true | 3.58 | 8.68 | 6.35 | 56\% | 41\% | 73\% |  | 1.37 | 5.9 | 6.0 |  |  |  |  |  |  |  |  | 12,064 | 9,321 | 1,444 |  |  |  | 12,064 | 9,321 | 1,444 |
| 10/4/2016 | FALSE | FALSE | FALSE | 3.62 | 8.61 | 6.15 | 59\% | 42\% | 71\% |  | 1.40 | 5.9 | 6.1 |  |  |  |  |  |  |  |  | 12,064 | 9,321 | 1,444 |  |  |  | 12,064 | 9,321 | 1,444 |
| 10/5/2016 | FALSE | FALSE | FALSE | 3.54 | 8.12 | 5.99 | 59\% | 44\% | 74\% |  | 1.36 | 5.9 | 6.1 | 329.00 | 219.00 | 0.67 |  | 16,436 | 10,940 |  |  | 12,610 | 9,591 | 1,444 | 16,436 | 10,940 |  | 12,610 | 9,591 | 1,444 |
| 10/6/2016 | FALSE | FALSE | FALSE | 3.58 | 7.81 | 5.83 | 61\% | 46\% | 75\% |  | 1.34 | 5.9 | 6.0 |  |  |  |  |  |  |  |  | 12,610 | 9,591 | 1,444 |  |  |  | 12,610 | 9,591 | 1,444 |
| 10/7/2016 | FALSE | FALSE | FALSE | 3.27 | 7.80 | 5.84 | 56\% | 42\% | 75\% |  | 1.34 | 5.9 | 6.0 | 277.00 | 184.00 | 0.66 |  | 13,491 | 8,962 |  |  | 12,708 | 9,501 | 1,444 | 13,491 | 8,962 |  | 12,708 | 9,501 | 1,444 |
| 10/8/2016 | FALSE | FALSE | FALSE | 3.31 | 8.53 | 5.62 | 59\% | 39\% | 66\% |  | 1.52 | 5.9 | 6.0 |  |  |  |  |  |  |  |  | 12,718 | 9,501 | 1,444 |  |  |  | 12,718 | 9,501 | 1,444 |
| 10/9/2016 | FALSE | FALSE | FALSE | 3.20 | 8.03 | 5.51 | 58\% | 40\% | 69\% |  | 1.46 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 12,718 | 9,501 | 1,444 |  |  |  | 12,718 | 9,501 | 1,444 |
| 10/10/2016 | FALSE | FALSE | FALSE | 3.21 | 8.25 | 5.89 | 54\% | 39\% | 71\% |  | 1.40 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 12,588 | 9,636 | 1,444 |  |  |  | 12,588 | 9,636 | 1,444 |
| 10/11/2016 | FALSE | FALSE | FALSE | 3.21 | 7.92 | 5.68 | 57\% | 41\% | 72\% |  | 1.39 | 5.9 | 5.8 |  |  |  |  |  |  |  |  | 12,588 | 9,636 | 1,444 |  |  |  | 12,588 | 9,636 | 1,444 |
| 10/12/2016 | FALSE | FALSE | FALSE | 3.19 | 7.95 | 5.71 | 56\% | 40\% | 72\% |  | 1.39 | 5.9 | 5.8 | 308.00 | 202.00 | 0.66 |  | 14,667 | 9,620 |  |  | 12,848 | 9,633 | 1,444 | 14,667 | 9,620 |  | 12,848 | 9,633 | 1,444 |
| 10/13/2016 | FALSE | FALSE | FALSE | 3.26 | 7.75 | 5.74 | 57\% | 42\% | 74\% |  | 1.35 | 5.9 | 5.7 |  |  |  |  |  |  |  |  | 12,848 | 9,633 | 1,444 |  |  |  | 12,848 | 9,633 | 1,444 |
| 10/14/2016 | FALSE | FALSE | True | 3.20 | 8.77 | 6.09 | 53\% | 36\% | 69\% |  | 1.44 | 5.9 | 5.8 | 343.00 | 269.00 | 0.78 |  | 17,421 | 13,663 |  |  | 13,356 | 10,137 | 1,444 | 17,421 | 13,663 |  | 13,356 | 10,137 | 1,444 |
| 10/15/2016 | FALSE | FALSE | true | 3.28 | 8.86 | 5.99 | 55\% | 37\% | 68\% |  | 1.48 | 5.9 | 5.8 |  |  |  |  |  |  |  |  | 13,991 | 10,137 | 1,444 |  |  |  | 13,991 | 10,137 | 1,444 |
| 10/16/2016 | FALSE | FALSE | True | 3.25 | 8.73 | 6.01 | 54\% | 37\% | 69\% |  | 1.45 | 5.9 | 5.8 |  |  |  |  |  |  |  |  | 13,991 | 10,137 | 1,444 |  |  |  | 13,991 | 10,137 | 1,444 |
| 10/17/2016 | FALSE | FALSE | false | 2.39 | 8.32 | 6.08 | 39\% | 29\% | 73\% | MinAvg | 1.37 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 14,268 | 10,346 | 1,444 |  |  |  | 14,268 | 10,346 | 1,444 |
| 10/18/2016 | FALSE | FALSE | FALSE | 3.31 | 8.09 | 5.95 | 56\% | 41\% | 74\% |  | 1.36 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 14,268 | 10,346 | 1,444 |  |  |  | 14,268 | 10,346 | 1,444 |
| 10/19/2016 | FALSE | FALSE | false | 3.27 | 8.04 | 5.86 | 56\% | 41\% | 73\% |  | 1.37 | 5.9 | 5.9 | 274.00 |  |  |  | 13,391 |  |  |  | 14,158 | 10,346 | 1,444 | 13,391 |  |  | 14,158 | 10,346 | 1,444 |
| 10/20/2016 | FALSE | FALSE | FALSE | 3.29 | 8.21 | 5.78 | 57\% | 40\% | 70\% |  | 1.42 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 14,158 | 10,346 | 1,444 |  |  |  | 14,158 | 10,346 | 1,444 |
| 10/21/2016 | FALSE | FALSE | false | 3.27 | 8.28 | 5.74 | 57\% | 39\% | 69\% |  | 1.44 | 5.9 | 5.9 | 296.00 | 238.00 | 0.80 |  | 14,170 | 11,393 |  |  | 14,159 | 10,477 | 1,444 | 14,170 | 11,393 |  | 14,159 | 10,477 | 1,444 |
| 10/22/2016 | FALSE | FALSE | FALSE | 3.25 | 8.60 | 5.61 | 58\% | 38\% | 65\% |  | 1.53 | 5.9 | 5.8 |  |  |  |  |  |  |  |  | 14,389 | 10,785 | 1,444 |  |  |  | 14,389 | 10,785 | 1,444 |
| 10/23/2016 | FALSE | FALSE | FALSE | 3.20 | 8.21 | 5.62 | 57\% | 39\% | 68\% |  | 1.46 | 5.9 | 5.8 |  |  |  |  |  |  |  |  | 14,389 | 10,785 |  |  |  |  | 14,389 | 10,785 |  |
| 10/24/2016 | FALSE | FALSE | True | 3.20 | 8.50 | 6.02 | 53\% | 38\% | 71\% |  | 1.41 | 5.9 | 5.8 |  |  |  |  |  |  |  |  | 14,527 | 10,713 |  |  |  |  | 14,527 | 10,713 |  |
| 10/25/2016 | FALSE | FALSE | TRUE | 4.60 | 18.57 | 8.91 | 52\% | 25\% | 48\% | inMaxAvgM | 2.08 | 5.9 | 5.8 |  |  |  |  |  |  |  |  | 14,527 | 10,713 |  |  |  |  | 14,527 | 10,713 |  |
| 10/26/2016 | FALSE | FALSE | FALSE | 4.00 | 10.81 | 7.32 | 55\% | 37\% | 68\% |  | 1.48 | 5.9 | 6.0 | 206.00 | 197.00 | 0.96 |  | 12,576 | 12,027 |  |  | 14,283 | 10,901 |  | 12,576 | 12,027 |  | 14,283 | 10,901 |  |
| 10/27/2016 | FALSE | FALSE | true | 3.47 | 9.37 | 6.63 | 52\% | 37\% | 71\% |  | 1.41 | 6.0 | 6.1 |  |  |  |  |  |  |  |  | 14,283 | 10,901 |  |  |  |  | 14,283 | 10,901 |  |
| 10/28/2016 | FALSE | FALSE | TRUE | 3.59 | 14.88 | 6.97 | 52\% | 24\% | 47\% | inMaxavgM | 2.13 | 6.0 | 6.2 | 244.00 | 199.00 | 0.82 |  | 14,184 | 11,568 |  |  | 14,272 | 10,984 |  | 14,184 | 11,568 |  | 14,272 | 10,984 |  |
| 10/29/2016 | FALSE | FALSE | TRUE | 4.00 | 15.90 | 7.26 | 55\% | 25\% | 46\% | AvgMax | 2.19 | 6.0 | 6.2 |  |  |  |  |  |  |  |  | 14,272 | 10,984 |  |  |  |  | 14,272 | 10,984 |  |
| 10/30/2016 | FALSE | FALSE | True | 3.65 | 10.01 | 6.90 | 53\% | 36\% | 69\% |  | 1.45 | 6.0 | 6.5 |  |  |  |  |  |  |  |  | 14,272 | 10,984 |  |  |  |  | 14,272 | 10,984 |  |
| 10/31/2016 | FALSE | FALSE | TRUE | 3.50 | 9.52 | 6.77 | 52\% | 37\% | 71\% |  | 1.41 | 6.0 | 6.7 |  |  |  |  |  |  |  |  | 14,542 | 11,167 |  |  |  |  | 14,542 | 11,167 |  |
| 11/1/2016 | FALSE | FALSE | FALSE | 3.81 | 9.44 | 7.08 | 54\% | 40\% | 75\% |  | 1.33 | 6.1 | 6.9 |  |  |  |  |  |  |  |  | 14,542 | 11,167 |  |  |  |  | 14,542 | 11,167 |  |
| 11/2/2016 | FALSE | FALSE | FALSE | 3.59 | 10.10 | 6.60 | 54\% | 36\% | 65\% |  | 1.53 | 6.1 | 6.9 | 145.00 | 131.00 | 0.90 |  | 7,981 | 7,211 |  |  | 13,813 | 10,673 |  | 7,981 | 7,211 |  | 13,813 | 10,673 |  |
| 11/3/2016 | FALSE | FALSE | FALSE | 3.45 | 8.87 | 6.37 | 54\% | 39\% | 72\% |  | 1.39 | 6.1 | 6.7 |  |  |  |  |  |  |  |  | 13,813 | 10,673 |  |  |  |  | 13,813 13,047 | 10,673 10,307 |  |
| 11/4/2016 | FALSE | FALSE | FALSE | 1.93 | 8.67 | 5.98 | 32\% | 22\% | 69\% | inAvgMinM | 1.45 | 6.1 | 6.7 | 123.40 | 148.00 | 1.20 |  | 6,154 | 7,381 |  |  | 13,047 | 10,307 |  | 6,154 | 7,381 |  | 13,047 | 10,307 |  |
| 11/5/2016 | FALSE | FALSE | FALSE | 3.35 | 8.25 | 5.96 | 56\% | 41\% | 72\% |  | 1.38 | 6.1 | 6.6 |  |  |  |  |  |  |  |  | 12,671 | 10,228 |  |  |  |  | 12,671 | 10,228 |  |
| 11/6/2016 | FALSE | FALSE | FALSE | 3.00 | 8.45 | 5.94 | 51\% | 36\% | 70\% |  | 1.42 | 6.1 | 6.5 |  |  |  |  |  |  |  |  | 12,671 | 10,228 |  |  |  |  | 12,671 | 10,228 |  |
| 11/7/2016 | FALSE | FALSE | FALSE | 3.28 | 8.40 | 5.96 | 55\% | 39\% | 71\% |  | 1.41 | 6.1 | 6.4 |  |  |  |  |  |  |  |  | 12,568 | 10,409 |  |  |  |  | 12,568 | 10,409 |  |
| 11/8/2016 | FALSE | FALSE | FALSE | 3.31 | 8.21 | 5.86 | 56\% | 40\% | 71\% |  | 1.40 | 6.1 | 6.3 |  |  |  |  |  |  |  |  | 12,568 | 10,409 |  |  |  |  | 12,568 | 10,409 |  |
| 11/9/2016 | FALSE | FALSE | FALSE | 3.33 | 7.99 | 5.82 | 57\% | 42\% | 73\% |  | 1.37 | 6.1 | 6.1 |  |  |  |  |  |  |  |  | 12,568 | 10,409 |  |  |  |  | 12,568 | 10,409 |  |
| 11/10/2016 | FALSE | FALSE | FALSE | 3.27 | 7.89 | 5.81 | 56\% | 41\% | 74\% |  | 1.36 | 6.1 | 6.0 | 223.00 | 155.00 | 0.70 |  | 10,806 | 7,511 |  |  | 12,372 | 10,047 |  | 10,806 | 7,511 |  | 12,372 | 10,047 |  |
| 11/11/2016 | FALSE | FALSE | FALSE | 3.29 3 | 8.36 | 5.84 | 56\% | 39\% | 70\% |  | 1.43 | 6.1 | 5.9 | 250.20 | 235.00 | 0.94 |  | 12,186 | 11,446 |  |  | 12,354 | 10,202 |  | 12,186 | 11,446 |  | 12,354 | 10,202 |  |
| 11/12/2016 | FALSE | FALSE | FALSE | 3.28 | 7.54 | 5.62 | 58\% | 44\% | 75\% |  | 1.34 | 6.1 | 5.9 |  |  |  |  |  |  |  |  | 12,097 | 10,275 |  |  |  |  | 12,097 | 10,275 |  |
| 11/13/2016 | FALSE | FALSE | FALSE | 3.19 | 7.95 | 5.67 | 56\% | 40\% | 71\% |  | 1.40 | 6.1 | 5.8 |  |  |  |  |  |  |  |  | 12,097 | 10,275 |  |  |  |  | 12,097 | 10,275 |  |
| 11/14/2016 | FALSE | FALSE | FALSE | 3.23 | 8.01 | 5.81 | 56\% | 40\% | 73\% |  | 1.38 | 6.1 | 5.8 |  |  |  |  |  |  |  |  | 11,431 | 9,791 |  |  |  |  | 11,431 | 9,791 |  |
| 11/15/2016 | FALSE | FALSE | FALSE | 3.36 | 8.27 | 5.93 | 57\% | 41\% | 72\% |  | 1.39 | 6.1 | 5.8 |  |  |  |  |  |  |  |  | 11,431 | 9,791 |  |  |  |  | 11,431 11744 | 9,791 |  |
| 11/16/2016 | FALSE FALSE | FALSE | FALSE | 3.29 <br> 3.28 | 8.40 7.96 | 5.87 5.84 | 56\% | 39\% | 70\% |  | 1.43 1.36 | 6.1 6.1 | $5.8$ | 291.00 | 225.00 | 0.77 |  | 14,246 | 11,015 |  |  | 11,744 <br> 11,744 <br> 1 | 9,944 |  | 14,246 | 11,015 |  | 11,744 11,744 | 9,944 |  |
| 11/18/2016 | FALSE | True | FALSE | 3.23 | 7.89 | 5.74 | 56\% | 41\% | 73\% |  | 1.37 | 6.1 | 5.8 | 256.00 | 246.00 | 0.96 |  | 12,255 | 11,776 |  |  | 11,795 | 10,148 |  | 12,255 | 11,776 |  | 11,795 | 10,148 |  |
| 11/19/2016 | FALSE | True | True | 3.31 | 12.93 | 7.15 | 46\% | 26\% | 55\% | AvgMax | 1.81 | 6.1 | 5.8 |  |  |  |  |  |  |  |  | 11,618 | 10,148 |  |  |  |  | 11,618 | 10,148 |  |
| 11/20/2016 | FALSE | true | true | 4.43 | 11.05 | 7.89 | 56\% | 40\% | 71\% |  | 1.40 | 6.2 | 6.1 |  |  |  |  |  |  |  |  | 11,618 | 10,148 |  |  |  |  | 11,618 | 10,148 |  |
| 11/21/2016 | FALSE | True | false | 4.17 | 9.58 | 7.10 | 59\% | 44\% | 74\% |  | 1.35 | 6.2 | 6.3 |  |  |  |  |  |  |  |  | 11,299 | 9,992 |  |  |  |  | 11,299 | 9,992 |  |
| 11/22/2016 | FALSE | true | true | 3.60 | 8.66 | 6.48 | 56\% | 42\% | 75\% |  | 1.34 | 6.2 | 6.4 |  |  |  |  |  |  |  |  | 11,299 | 9,992 |  |  |  |  | 11,299 | 9,992 |  |
| 11/23/2016 | TRUE | TRUE | TRUE | 3.68 | 8.83 | 6.59 | 56\% | 42\% | 75\% |  | 1.34 | 6.3 | 6.5 | 278.00 | 228.00 | 0.82 |  | 15,279 | 12,531 |  |  | 11,741 | 10,274 |  | 15,279 | 12,531 |  | 11,741 | 10,274 |  |
| 11/24/2016 | TRUE | true | false | 3.49 | 8.79 | 5.82 | 60\% | 40\% | 66\% |  | 1.51 | 6.3 | 6.5 |  |  |  |  |  |  |  |  | 11,741 | 10,274 |  |  |  |  | 11,741 | 10,274 |  |
| 11/25/2016 | TRUE | True | false | 3.41 | 7.67 | 5.40 | 63\% | 44\% | 70\% |  | 1.42 | 6.2 | 6.4 |  |  |  |  |  |  |  |  | 11,741 | 10,274 |  |  |  |  | 11,741 | 10,274 |  |
| 11/26/2016 | TRUE | true | true | 3.35 | 9.29 | 6.24 | 54\% | 36\% | 67\% |  | 1.49 | 6.2 | 6.5 |  |  |  |  |  |  |  |  | 11,636 | 10,055 |  |  |  |  | 11,636 | 10,055 |  |
| 11/27/2016 | TRUE | True | true | 1.83 | 9.05 | 6.67 | 27\% | 20\% | 74\% | inAvgMinM | 1.36 | 6.2 | 6.5 |  |  |  |  |  |  |  |  | 11,636 | 10,055 |  |  |  |  | 11,636 | 10,055 |  |
| 11/28/2016 | TRUE | TRUE | TRUE | 3.62 | 9.28 | 6.72 | 54\% | 39\% | 72\% |  | 1.38 | 6.2 | 6.3 |  |  |  |  |  |  |  |  | 11,273 | 9,839 |  |  |  |  | 11,273 | 9,839 |  |
| 11/29/2016 | FALSE | FALSE | FALSE | 3.62 3 3 | 8.98 8.60 | 6.54 | 55\% | 40\% | 73\% |  | 1.37 | 6.2 | 6.3 |  |  |  |  |  |  |  |  | 11,273 | 9,839 |  |  |  |  | 11,273 | 9,839 |  |
| 11/30/2016 12/1/2016 | FALSE | FALLE | ${ }_{\text {FALSE }}$ | 3.52 3.46 | 8.60 8.52 | 6.42 6.34 | 55\% | 41\% | 75\% |  | 1.34 1.34 | 6.2 | 6.2 | 242.00 | 240.00 | 0.99 |  | 12,957 | 12,850 |  |  | 11,483 11,483 | 10,215 10,215 |  | 12,957 | 12,850 |  | 11,483 11,483 | 10,215 10,215 |  |


| Date | $\begin{aligned} & \text { Butte } \\ & \text { Break? } \end{aligned}$ | $\underset{\text { Break? }}{\text { csu }}$ | Precip? | $\underset{\substack{\text { Minfluent } \\ \text { Flow, } \\ \text { Fgd }}}{\text { In }}$ | $\begin{gathered} \text { Max } \\ \text { Influent } \\ \text { Flow, } \text { mgd } \end{gathered}$ | $\underset{\substack{\text { Avg } \\ \text { Influent } \\ \text { Flow, } \text { mgd }}}{\text { and }}$ | $\underset{\text { Avg }}{\mathrm{Min} \% \text { of }}$ | Min \% of Max | Avg \% of Max | $\begin{aligned} & \text { Flow } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | $\begin{aligned} & \text { Diurnal } \\ & \text { Peak } \\ & \text { Factor } \\ & \text { (DPF) } \end{aligned}$ | $\begin{gathered} \text { 30-d Avg } \\ \text { of Avg } \\ \text { Flow, mgd } \end{gathered}$ | 7-d Avg of Avg Flow, mgd | Influent TSS Conc., mg/L | Influent BOD Conc. mg/L | BoD/TSS Ratio | Influent NH3-N Conc., mg/L | Avg lnf TsS Load, ppd | $\begin{aligned} & \text { Avg } \operatorname{lnf} \\ & \text { BOD Load, } \\ & \text { ppd } \end{aligned}$ | Avg Inf NH3 Load, ppd | $\begin{aligned} & \text { Load } \\ & \text { Outier } \\ & \text { Type } \end{aligned}$ | 30-d Avg of TSS Load, ppd | 30-d Avg of BOD Load, ppd | 30-d Avg of NH3-N Load, ppd | $\begin{aligned} & \text { non-SN } \\ & \text { TSS Load, } \\ & \text { ppd } \end{aligned}$ | non-SN ppd | non-SN NH3 Load, ppd | $\begin{aligned} & \text { 30-d Avg } \\ & \text { of non-SN } \\ & \text { TSS Load, } \\ & \text { ppd } \end{aligned}$ | 30-d Avg of non-SN BOD Load, ppd | 30-d Avg of non-SN NH3-N Load, ppd |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12/2/2016 | FALSE | FALSE | FALSE | 3.32 | 8.34 | 6.13 | 54\% | 40\% | 74\% |  | 1.36 | 6.2 | 6.3 | 252.70 | 213.00 | 0.84 |  | 12,919 | 10,889 |  |  | 11,643 | 10,290 |  | 12,919 | 10,889 |  | 11,643 | 10,290 |  |
| 12/3/2016 | FALSE | FALSE | FALSE | 3.33 | 8.75 | 6.03 | 55\% | 38\% | 69\% |  | 1.45 | 6.1 | 6.3 |  |  |  |  |  |  |  |  | 12,100 | 10,675 |  |  |  |  | 12,100 | 10,675 |  |
| 12/4/2016 | FALSE | FALSE | false | 3.27 | 8.70 | 5.96 | 55\% | 38\% | 69\% |  | 1.46 | 6.1 | 6.3 |  |  |  |  |  |  |  |  | 12,100 | 10,675 |  |  |  |  | 12,100 | 10,675 |  |
| 12/5/2016 | FALSE | FALSE | FALSE | 2.81 | 10.22 | 6.06 | 46\% | 27\% | 59\% |  | 1.69 | 6.1 | 6.3 |  |  |  |  |  |  |  |  | 12,950 | 11,146 |  |  |  |  | 12,950 | 11,146 |  |
| 12/6/2016 | FALSE | FALSE | FALSE | 3.23 | 8.44 | 5.97 | 54\% | 38\% | 71\% |  | 1.41 | 6.1 | 6.2 |  |  |  |  |  |  |  |  | 12,950 | 11,146 |  |  |  |  | 12,950 | 11,146 |  |
| 12/7/2016 | FALSE | FALSE | TRUE | 3.21 | 8.16 | 5.98 | 54\% | 39\% | 73\% |  | 1.36 | 6.1 | 6.1 | 281.70 | 283.00 | 1.00 |  | 14,049 | 14,114 |  |  | 13,087 | 11,517 |  | 14,049 | 14,114 |  | 13,087 | 11,517 |  |
| 12/8/2016 | FALSE | FALSE | true | 3.51 | 10.05 | 7.05 | 50\% | 35\% | 70\% |  | 1.43 | 6.2 | 6.2 |  |  |  |  |  |  |  |  | 13,087 | 11,517 |  |  |  |  | 13,087 | 11,517 |  |
| 12/9/2016 | FALSE | FALSE | True | 3.66 | 21.29 | 11.38 | 32\% | 17\% | 53\% | 'gMinMaxA' | 1.87 | 6.2 | 6.2 | 125.90 | 134.00 | 1.06 |  | 11,949 | 12,718 |  |  | 12,961 | 11,650 |  | 11,949 | 12,718 |  | 12,961 | 11,650 |  |
| 12/10/2016 | FALSE | FALSE | true | 7.30 | 19.64 | 10.26 | 71\% | 37\% | 52\% | inAvgAvg | 1.91 | 6.2 | 6.2 |  |  |  |  |  |  |  |  | 12,961 | 11,650 |  |  |  |  | 12,961 | 11,550 |  |
| 12/11/2016 | FALSE | false | false | 4.81 | 11.43 | 8.27 | 58\% | 42\% | 72\% |  | 1.38 | 6.3 | 6.5 |  |  |  |  |  |  |  |  | 13,230 | 12,167 |  |  |  |  | 13,230 | 12,167 |  |
| 12/12/2016 | FALSE | false | false | 4.06 | 10.62 | 7.49 | 54\% | 38\% | 71\% |  | 1.42 | 6.3 | 6.8 |  |  |  |  |  |  |  |  | 13,379 | 12,271 |  |  |  |  | 13,379 | 12,271 |  |
| 12/13/2016 | FALSE | false | TRUE | 3.68 | 10.02 | 7.09 | 52\% | 37\% | 71\% |  | 1.41 | 6.4 | 7.0 |  |  |  |  |  |  |  |  | 13,379 | 12,271 |  |  |  |  | 13,379 | 12,271 |  |
| 12/14/2016 | false | false | true | 4.30 | 11.48 | 8.44 | 51\% | 37\% | 74\% |  | 1.36 | 6.5 | 7.4 |  |  |  | 16.90 |  |  | 1,190 |  | 13,379 | 12,271 | 1,190 |  |  | 1,190 | 13,379 | 12,271 | 1,190 |
| 12/15/2016 | FALSE | false | TRUE | 5.58 | 18.88 | 13.07 | 43\% | 30\% | 69\% |  | 1.44 | 6.8 | 8.6 | 242.80 | 180.00 | 0.74 |  | 26,466 | 19,621 |  | TSS | 13,379 | 13,189 | 1,190 | 26,466 | 19,621 |  | 13,379 | 13,189 | 1,190 |
| 12/16/2016 | true | true | FALSE | 9.30 | 17.60 | 12.53 | 74\% | 53\% | 71\% | MinAvg | 1.40 | 6.8 | 8.9 |  |  |  |  |  |  |  |  | 13,379 | 13,189 | 1,190 |  |  |  | 13,379 | 13,189 | 1,190 |
| 12/17/2016 | True | TRUE | false | 6.10 | 12.29 | 9.36 | 65\% | 50\% | 76\% |  | 1.31 | 6.9 | 9.0 |  |  |  |  |  |  |  |  | 13,235 | 13,500 | 1,190 |  |  |  | 13,235 | 13,500 | 1,190 |
| 12/18/2016 | TRUE | True | FALSE | 4.77 | 11.66 | 7.95 | 60\% | 41\% | 68\% |  | 1.47 | 7.0 | 8.8 |  |  |  |  |  |  |  |  | 13,235 | 13,500 | 1,190 |  |  |  | 13,235 | 13,500 | 1,190 |
| 12/19/2016 | TRUE | true | FALSE | 4.24 | 10.10 | 7.58 | 56\% | 42\% | 75\% |  | 1.33 | 7.1 | 8.7 | 152.90 |  |  |  | 9,666 |  |  |  | 12,803 | 13,787 | 1,190 | 9,666 |  |  | 12,803 | 13,787 | 1,190 |
| 12/20/2016 | TRUE | TRUE | FALSE | 4.08 | 9.38 | 7.14 | 57\% | 43\% | 76\% |  | 1.31 | 7.1 | 8.7 |  |  |  |  |  |  |  |  | 12,803 | 13,787 | 1,190 |  |  |  | 12,803 | 13,787 | 1,190 |
| 12/21/2016 | TRUE | TRUE | FALSE | 3.79 | 8.99 | 6.85 | 55\% | 42\% | 76\% |  | 1.31 | 7.0 | 8.6 | 170.40 |  |  |  | 9,735 |  |  |  | 12,365 | 13,787 | 1,190 | 9,735 |  |  | 12,365 | 13,787 | 1,190 |
| 12/22/2016 | True | true | FALSE | 3.64 | 9.11 | 6.68 | 54\% | 40\% | 73\% |  | 1.36 | 7.0 | 8.4 | 190.70 | 182.00 | 0.95 |  | 10,624 | 10,139 |  |  | 12,147 | 13,266 | 1,190 | 10,624 | 10,139 |  | 12,147 | 13,266 | 1,190 |
| 12/23/2016 | TRUE | TRUE | TRUE | 3.75 | 11.43 | 7.49 | 50\% | 33\% | 66\% |  | 1.53 | 7.1 | 7.6 |  |  |  |  |  |  |  |  | 12,147 | 13,266 | 1,190 |  |  |  | 12,147 | 13,266 | 1,190 |
| 12/24/2016 | TRUE | TRUE | FALSE | 4.64 | 10.61 | 7.50 | 62\% | 44\% | 71\% |  | 1.41 | 7.1 | 7.6 |  |  |  |  |  |  |  |  | 11,700 | 13,389 | 1,190 |  |  |  | 11,700 | 13,389 | 1,190 |
| 12/25/2016 | TRUE | TRUE | FALSE | 3.81 | 8.23 | 6.04 | 63\% | 46\% | 73\% |  | 1.36 | 7.1 | 7.2 |  |  |  |  |  |  |  |  | 11,700 | 13,389 | 1,190 |  |  |  | 11,700 | 13,389 | 1,190 |
| 12/26/2016 | TRUE | TRUE | FALSE | 3.56 | 9.04 | 6.21 | 57\% | 39\% | 69\% |  | 1.46 | 7.1 | 6.9 |  |  |  |  |  |  |  |  | 11,700 | 13,389 | 1,190 |  |  |  | 11,700 | 13,389 | 1,190 |
| 12/27/2016 | True | TRUE | FALSE | 3.43 | 8.70 | 6.30 | 54\% | 39\% | 72\% |  | 1.38 | 7.1 | 6.8 |  |  |  |  |  |  |  |  | 11,700 | 13,389 | 1,190 |  |  |  | 11,700 | 13,389 | 1,190 |
| 12/28/2016 | TRUE | TRUE | FALSE | 3.61 | 8.54 | 6.18 | 58\% | 42\% | 72\% |  | 1.38 | 7.1 | 6.7 | 190.00 | 187.00 | 0.98 |  | 9,793 | 9,638 |  |  | 11,462 | 12,853 | 1,190 | 9,793 | 9,638 |  | 11,462 | 12,853 | 1,190 |
| 12/29/2016 | TRUE | TRUE | FALSE | 3.45 | 8.07 | 6.03 | 57\% | 43\% | 75\% |  | 1.34 | 7.1 | 6.6 |  |  |  |  |  |  |  |  | 11,462 | 12,853 | 1,190 |  |  |  | 11,462 | 12,853 | 1,190 |
| 12/30/2016 | TRUE | TRUE | FALSE | 3.45 | 8.13 | 5.94 | 58\% | 42\% | 73\% |  | 1.37 | 7.1 | 6.5 | 265.90 |  |  |  | 13,173 |  |  |  | 11,652 | 12,853 | 1,190 | 13,173 |  |  | 11,652 | 12,853 | 1,190 |
| 12/31/2016 | TRUE | TRUE | TRUE | 3.47 | 8.37 | 5.89 | 59\% | 41\% | 70\% |  | 1.42 | 7.0 | 6.3 |  |  |  |  |  |  |  |  | 11,488 | 12,853 | 1,190 |  |  |  | 11,488 | 12,853 | 1,190 |
| 1/1/2017 | TRUE | TRUE | TRUE | 3.38 | 7.71 | 5.48 | 62\% | 44\% | 71\% |  | 1.41 | 7.0 | 6.0 |  |  |  |  |  |  |  |  | 11,488 | 12,853 | 1,190 |  |  |  | 11,488 | 12,853 | 1,190 |
| 1/2/2017 | TRUE | True | FALSE | 3.34 | 8.42 | 5.80 | 58\% | 40\% | 69\% |  | 1.45 | 7.0 | 6.0 |  |  |  |  |  |  |  |  | 11,284 | 13,246 | 1,190 |  |  |  | 11,284 | 13,246 | 1,190 |
| 1/3/2017 | TRUE | TRUE | true | 3.35 | 12.17 | 6.75 | 50\% | 28\% | 55\% | AvgMax | 1.80 | 7.0 | 5.9 |  |  |  |  |  |  |  |  | 11,284 | 13,246 | 1,190 |  |  |  | 11,284 | 13,246 | 1,190 |
| 1/4/2017 | TRUE | True | FALSE | 6.56 | 11.97 | 9.22 | 71\% | 55\% | 77\% | inAvgMinM | 1.30 | 7.1 | 5.9 | 174.20 | 189.00 | 1.08 |  | 13,395 | 14,533 |  |  | 11,548 | 13,461 | 1,190 | 13,395 | 14,533 |  | 11,548 | 13,461 | 1,190 |
| 1/5/2017 | true | true | FALSE | 4.36 | 9.74 | 7.55 | 58\% | 45\% | 78\% |  | 1.29 | 7.1 | 6.1 | 107.80 |  |  |  | 6,788 |  |  |  | 11,019 | 13,461 | 1,190 | 6,788 |  |  | 11,019 | 13,461 | 1,190 |
| 1/6/2017 | TRUE | TRUE | FALSE | 3.95 | 9.31 | 7.03 | 56\% | 42\% | 76\% |  | 1.32 | 7.2 | 6.3 |  |  |  |  |  |  |  |  | 11,019 | 13,461 | 1,190 |  |  |  | 11,019 | 13,461 | 1,190 |
| 1/7/2017 | true | true | true | 3.80 | 12.40 | 8.17 | 47\% | 31\% | 66\% |  | 1.52 | 7.3 | 6.7 |  |  |  |  |  |  |  |  | 10,640 | 13,330 | 1,190 |  |  |  | 10,640 | 13,330 | 1,190 |
| 1/8/2017 | TRUE | TRUE | TRUE | 6.68 | 17.91 | 12.79 | 52\% | 37\% | 71\% |  | 1.40 | 7.5 | 7.8 |  |  |  |  |  |  |  |  | 10,640 | 13,330 | 1,190 |  |  |  | 10,640 | 13,330 | 1,190 |
| 1/9/2017 | True | true | true | 7.99 | 15.14 | 11.28 | 71\% | 53\% | 75\% | MinAvg | 1.34 | 7.5 | 8.3 |  |  |  |  |  |  |  |  | 10,453 | 13,483 | 1,190 |  |  |  | 10,453 | 13,483 | 1,190 |
| 1/10/2017 | True | true | true | 6.51 | 14.41 | 10.70 | 61\% | 45\% | 74\% |  | 1.35 | 7.6 | 9.2 |  |  |  |  |  |  |  |  | 10,453 | 13,483 | 1,190 |  |  |  | 10,453 | 13,483 | 1,190 |
| 1/11/2017 | TRUE | TRUE | FALSE | 7.64 | 14.07 | 10.74 | 71\% | 54\% | 76\% | MinAvg | 1.31 | 7.6 | 9.2 | 136.00 | 116.00 | 0.85 |  | 12,182 | 10,390 |  |  | 10,669 | 12,864 | 1,190 | 12,182 | 10,390 |  | 10,669 | 12,864 | 1,190 |
| 1/12/2017 | True | TRUE | TRUE | 5.87 | 12.38 | 9.37 | 63\% | 47\% | 76\% |  | 1.32 | 7.6 | 9.3 | 129.70 | 115.00 | 0.89 |  | 10,136 | 8,987 |  |  | 10,610 | 12,218 | 1,190 | 10,136 | 8,987 |  | 10,610 | 12,218 | 1,190 |
| 1/13/2017 | TRUE | TRUE | FALSE | 5.16 | 11.64 | 8.53 | 60\% | 44\% | 73\% |  | 1.36 | 7.7 | 9.4 |  |  |  |  |  |  |  |  | 10,610 | 12,218 | 1,190 |  |  |  | 10,610 | 12,218 | 1,190 |
| 1/1/2/2017 | True | True | FALSE | 4.73 | 11.14 | 7.94 | 60\% | 42\% | 71\% |  | 1.40 | 7.7 | 9.6 |  |  |  |  |  |  |  |  | 10,610 | 12,218 |  |  |  |  | 10,610 | 12,218 |  |
| 1/1/20017 | true | true | FALSE | 4.29 | 10.64 | 7.41 | 58\% | 40\% | 70\% |  | 1.44 | 7.5 | 9.5 |  |  |  |  |  |  |  |  | 10,610 | 10,738 |  |  |  |  | 10,610 | 10,738 |  |
| 1/1/1/2017 | True | True | True | 4.10 | 10.48 | 7.46 | 55\% | 39\% | 71\% |  | 1.40 | 7.5 | 8.6 |  |  |  |  |  |  |  |  | 10,610 | 10,738 |  |  |  |  | 10,610 | 10,738 |  |
| 1/17/2017 | TRUE | TRUE | FALSE | 3.82 | 9.84 13 | 7.14 | 54\% | 39\% | 73\% |  | 1.38 | 7.4 | 8.4 |  |  |  |  |  |  |  |  | 10,610 | 10,738 |  |  |  |  | 10,610 | 10,738 |  |
| 1/18/2017 | TRUE | TRUE | TRUE | 3.70 | 13.50 | 8.07 | 46\% | 27\% | 60\% |  | 1.67 | 7.4 | 8.0 | 213.50 | 164.00 | 0.77 |  | 14,369 | 11,038 |  |  | 10,986 | 10,788 |  | 14,369 177299 | 11,038 |  | 10,986 | 10,788 |  |
| $1 / 19 / 2017$ $1 / 20 / 2017$ | ${ }_{\text {TRUE }}^{\text {TRUE }}$ | TRUE TRUE | True TRUE | 6.82 6.34 | 13.49 15.09 | 10.04 11.59 | 68\% | 51\% | 74\% $77 \%$ |  | $\begin{aligned} & 1.34 \\ & 1.30 \end{aligned}$ | 7.5 7.6 | $\begin{aligned} & 8.2 \\ & 8.5 \end{aligned}$ | 206.60 |  |  |  | 17,299 |  |  |  | 11,749 11,749 | 10,788 10,788 |  | 17,299 |  |  | 11,749 11,749 | 10,788 10,788 |  |
| 1/21/2017 | TRUE | TRUE | TRUE | 6.924 6.96 | 12.81 | 10.18 | 68\% | 54\% | 79\% |  | 1.26 | 7.8 | 8.7 |  |  |  |  |  |  |  |  | 11,973 | 10,788 |  |  |  |  | 11,973 | 10,788 |  |
| 1/22/2017 | true | True | true | 8.11 | 15.17 | 11.72 | 69\% | 53\% | 77\% |  | 1.29 | 7.9 | 9.2 |  |  |  |  |  |  |  |  | 12,142 | 10,917 |  |  |  |  | 12,142 | 10,917 |  |
| 1/23/2017 | True | True | false | 6.45 | 13.37 | 10.25 | 63\% | 48\% | 77\% |  | 1.30 | 8.0 | 9.6 |  |  |  |  |  |  |  |  | 12,142 | 10,917 |  |  |  |  | 12,142 | 10,917 |  |
| 1/24/2017 | FALSE | false | true | 5.29 | 13.08 | 9.61 | 55\% | 40\% | 73\% |  | 1.36 | 8.1 | 9.8 |  |  |  |  |  |  |  |  | 12,142 | 10,917 |  |  |  |  | 12,142 | 10,917 |  |
| 1/25/2017 | FALSE | false | FALSE | 4.98 | 12.39 | 8.89 | 56\% | 40\% | 72\% |  | 1.39 | 8.2 | 10.0 | 167.70 | 149.00 | 0.89 |  | 12,434 | 11,047 |  |  | 12,174 | 10,939 |  | 12,434 | 11,047 |  | 12,174 | 10,939 |  |
| 1/26/2017 | FALSE | false | false | 4.56 | 11.42 | 8.34 | 55\% | 40\% | 73\% |  | 1.37 | 8.3 | 10.1 | 155.50 | 154.00 | 0.99 |  | 10,816 | 10,712 |  |  | 12,038 | 10,906 |  | 10,816 | 10,712 |  | 12,038 | 10,906 |  |
| 1/27/2017 | FALSE | false | false | 4.07 | 10.70 | 7.84 | 52\% | 38\% | 73\% |  | 1.36 | 8.4 | 9.8 |  |  |  |  |  |  |  |  | 12,038 | 10,906 |  |  |  |  | 12,038 | 10,906 |  |
| 1/28/2017 | FALSE | FALSE | FALSE | 4.03 | 10.66 | 7.44 | 54\% | 38\% | 70\% |  | 1.43 | 8.4 | 9.3 |  |  |  |  |  |  |  |  | 12,288 | 11,118 |  |  |  |  | 12,288 | 11,118 |  |
| 1/29/2017 | FALSE | FALSE | FALSE | 3.77 | 10.86 | 7.34 | 51\% | 35\% | 68\% |  | 1.48 | 8.5 | 8.9 |  |  |  |  |  |  |  |  | 12,288 | 11,118 |  |  |  |  | 12,288 | 11,118 |  |
| $1 / 30 / 2017$ $1 / 31 / 2017$ | FALLE | FALSE | $\stackrel{\text { FALSE }}{\text { FALSE }}$ | 3.59 3.71 | 9.74 9.80 | 7.07 6.97 | 51\% | $37 \%$ $38 \%$ | 73\% |  | 1.38 1.41 | 8.5 8.5 | 8.3 7.9 |  |  |  |  |  |  |  |  | 12,177 12,177 | 11,118 11,118 |  |  |  |  | 12,177 12,177 | 11,118 11,118 |  |
| 2/1/2017 | FALSE | FALSE | FALSE | 3.66 | ${ }^{9.86}$ | 6.95 | 53\% | 37\% | 70\% |  | 1.42 | 8.6 | 7.6 |  |  |  |  |  |  |  |  | 12,177 | ${ }_{111,118}^{11,18}$ |  |  |  |  | 12,177 | ${ }_{11,118}^{11,18}$ |  |
| 2/2/2017 | FALSE | FALSE | TRUE | 3.47 | 9.47 | 7.02 | 49\% | 37\% | 74\% |  | 1.35 | 8.6 | 7.4 | 185.00 | 200.00 | 1.08 |  | 10,831 | 11,709 |  |  | 12,028 | 11,202 |  | 10,831 | 11,709 |  | 12,028 | 11,202 |  |


| Date | $\begin{aligned} & \text { Butte } \\ & \text { Break? } \end{aligned}$ | $\begin{gathered} \text { cSU } \\ \text { Break? } \end{gathered}$ | Precip? | $\begin{gathered} \text { Min } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | $\begin{gathered} \text { Max } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | $\begin{gathered} \text { Avg } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | Min \% of Avg | min \% of <br> Max | Avg \% of Max | $\begin{aligned} & \text { Flow } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | $\begin{aligned} & \text { Diurnal } \\ & \text { Peak } \\ & \text { Factor } \\ & \text { (DPF) } \end{aligned}$ | $\begin{gathered} \text { 30-d Avg } \\ \text { of Avg } \\ \text { Flow, mgd } \end{gathered}$ | 7-d Avg of Avg Flow, mgd | Influent TSS Conc., mg/L | $\begin{gathered} \text { Influent } \\ \text { BoD } \\ \text { Conc., } \\ \mathrm{mg} / \mathrm{L} \end{gathered}$ | $\begin{gathered} \text { BOD/TSS } \\ \text { Ratio } \end{gathered}$ | Influent NH3-N Conc., mg/L | Avg linf TSS Load, ppd | Avg Inf BOD Load, ppd | Avg Inf NH3 Load, ppd | $\begin{aligned} & \text { Load } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | 30-d Avg of TSS Load, ppd | 30-d Avg of BOD Load, ppd | 30-d Avg of NH3-N Load, ppd | non-SN TSS Load, ppd | non-SN BOD Load, ppd | non-SN NH3 Load, ppd | $\begin{gathered} \text { 30-d Avg } \\ \text { of non-SN } \\ \text { TsS Load, } \\ \text { ppd } \end{gathered}$ | 30-d Avg <br> of non-SN BOD Load, <br> ppd | 30-d Avg of non-SN NH3-N Load, ppd |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2/3/2017 | FALSE | FALSE | TRUE | 4.33 | 11.73 | 8.07 | 54\% | 37\% | 69\% |  | 1.45 | 8.6 | 7.3 | 198.60 | 216.00 | 1.09 |  | 13,367 | 14,538 |  |  | 12,162 | 11,619 |  | 13,367 | 14,538 |  | 12,162 | 11,619 |  |
| 2/4/2017 | FALSE | FALSE | TRUE | 4.73 | 11.89 | 8.15 | 58\% | 40\% | 69\% |  | 1.46 | 8.6 | 7.4 |  |  |  |  |  |  |  |  | 12,025 | 11,203 |  |  |  |  | 12,025 | 11,203 |  |
| 2/5/2017 | FALSE | FALSE | TRUE | 4.12 | 11.89 | 7.61 | 54\% | 35\% | 64\% |  | 1.56 | 8.6 | 7.4 |  |  |  |  |  |  |  |  | 12,679 | 11,203 |  |  |  |  | 12,679 | 11,203 |  |
| 2/6/2017 | FALSE | FALSE | true | 4.10 | 11.49 | 7.95 | 52\% | 36\% | 69\% |  | 1.45 | 8.6 | 7.5 |  |  |  |  |  |  |  |  | 12,679 | 11,203 |  |  |  |  | 12,679 | 11,203 |  |
| 2/7/2017 | FALSE | FALSE | true | 8.85 | 15.12 | 12.03 | 74\% | 59\% | 80\% | inAvgMinM | 1.26 | 8.7 | 7.5 |  |  |  |  |  |  |  |  | 12,679 | 11,203 |  |  |  |  | 12,679 | 11,203 |  |
| 2/8/2017 | FALSE | FALSE | TRUE | 6.23 | 13.28 | 10.54 | 59\% | 47\% | 79\% |  | 1.26 | 8.6 | 8.0 | 183.50 | 132.00 | 0.72 |  | 16,130 | 11,603 |  |  | 13,063 | 11,253 |  | 16,130 | 11,603 |  | 13,063 | 11,253 |  |
| 2/9/2017 | FALSE | FALSE | TRUE | 5.74 | 13.78 | 10.56 | 54\% | 42\% | 77\% |  | 1.30 | 8.6 | 8.6 | 173.00 | 152.00 | 0.88 |  | 15,236 | 13,387 |  |  | 13,280 | 11,490 |  | 15,236 | 13,387 |  | 13,280 | 11,490 |  |
| 2/10/2017 | FALSE | FALSE | FALSE | 6.72 | 13.49 | 10.32 | 65\% | 50\% | 77\% |  | 1.31 | 8.6 | 9.0 |  |  |  |  |  |  |  |  | 13,280 | 11,490 |  |  |  |  | 13,280 | 11,490 |  |
| 2/11/2017 | False | FALSE | TRUE | 5.28 | 12.89 | 9.04 | 58\% | 41\% | 70\% |  | 1.43 | 8.6 | 9.2 |  |  |  |  |  |  |  |  | 13,402 | 11,628 |  |  |  |  | 13,402 | 11,628 |  |
| 2/12/2017 | FALSE | FALSE | FALSE | 4.74 | 12.29 | 8.38 | 57\% | 39\% | 68\% |  | 1.47 | 8.6 | 9.2 |  |  |  |  |  |  |  |  | 13,810 | 12,005 |  |  |  |  | 13,810 | 12,005 |  |
| 2/13/2017 | FALSE | FALSE | FALSE | 4.36 | 10.99 | 8.21 | 53\% | 40\% | 75\% |  | 1.34 | 8.6 | 9.3 |  |  |  |  |  |  |  |  | 13,810 | 12,005 |  |  |  |  | 13,810 | 12,005 |  |
| 2/14/2017 | FALSE | FALSE | FALSE | 4.24 | 10.96 | 8.05 | 53\% | 39\% | 73\% |  | 1.36 | 8.6 | 9.3 |  |  |  |  |  |  |  |  | 13,810 | 12,005 |  |  |  |  | 13,810 | 12,005 |  |
| 2/15/2017 | FALSE | FALSE | FALSE | 3.78 | 10.53 | 7.57 | 50\% | 36\% | 72\% |  | 1.39 | 8.6 | 9.1 |  |  |  |  |  |  |  |  | 13,810 | 12,005 |  |  |  |  | 13,810 | 12,005 |  |
| 2/16/2017 | FALSE | FALSE | TRUE | 4.00 | 10.05 | 7.68 | 52\% | 40\% | 76\% |  | 1.31 | 8.6 | 8.7 | 257.40 | 206.00 | 0.80 |  | 16,487 | 13,195 |  |  | 14,108 | 12,154 |  | 16,487 | 13,195 |  | 14,108 | 12,154 |  |
| 2/17/2017 | FALSE | FALSE | True | 4.10 | 15.64 | 9.94 | 41\% | 26\% | 64\% | MinAvg | 1.57 | 8.7 | 8.5 | 224.00 | 212.00 | 0.95 |  | 18,570 | 17,575 |  |  | 14,554 | 12,756 |  | 18,570 | 17,575 |  | 14,554 | 12,756 |  |
| 2/18/2017 | FALSE | FALSE | TRUE | 9.56 | 17.77 | 13.72 | 70\% | 54\% | 77\% | MinAvg | 1.30 | 8.7 | 8.2 |  |  |  |  |  |  |  |  | 14,574 | 12,971 |  |  |  |  | 14,574 | 12,971 |  |
| 2/19/2017 | FALSE | FALSE | TRUE | 7.52 | 13.82 | 11.10 | 68\% | 54\% | 80\% |  | 1.25 | 8.7 | 8.5 |  |  |  |  |  |  |  |  | 14,234 | 12,971 |  |  |  |  | 14,234 | 12,971 |  |
| 2/20/2017 | FALSE | FALSE | TRUE | 7.94 | 16.00 | 12.21 | 65\% | 50\% | 76\% |  | 1.31 | 8.8 | 9.1 |  |  |  |  |  |  |  |  | 14,234 | 12,971 |  |  |  |  | 14,234 | 12,971 |  |
| 2/21/2017 | FALSE | FALSE | FALSE | 7.92 | 15.29 | 11.47 | 69\% | 52\% | 75\% |  | 1.33 | 8.8 | 9.7 |  |  |  |  |  |  |  |  | 14,234 | 12,971 |  |  |  |  | 14,234 | 12,971 |  |
| 2/2/2017 | FALSE | FALSE | TRUE | 6.02 | 13.05 | 9.95 | 61\% | 46\% | 76\% |  | 1.31 | 8.7 | 10.0 | 173.10 | 146.00 | 0.84 |  | 14,364 | 12,116 |  |  | 14,248 | 12,876 |  | 14,364 | 12,116 |  | 14,248 | 12,876 |  |
| 2/23/2017 | FALSE | FALSE | TRUE | 5.42 | 12.12 | 9.16 | 59\% | 45\% | 76\% |  | 1.32 | 8.7 | 10.3 |  |  |  |  |  |  |  |  | 14,248 | 12,876 |  |  |  |  | 14,248 | 12,876 |  |
| 2/24/2017 | FALSE | FALSE | FALSE | 4.92 | 11.54 | 8.68 | 57\% | 43\% | 75\% |  | 1.33 | 8.7 | 10.4 |  |  |  |  |  |  |  |  | 14,248 | 12,876 |  |  |  |  | 14,248 | 12,876 |  |
| 2/25/2017 | FALSE | FALSE | FALSE | 4.48 | 11.60 | 8.11 | 55\% | 39\% | 70\% |  | 1.43 | 8.6 | 10.1 |  |  |  |  |  |  |  |  | 14,475 | 13,104 |  |  |  |  | 14,475 | 13,104 |  |
| 2/266/2017 | FALSE | FALSE | FALSE | 4.26 | 11.20 | 7.86 | 54\% | 38\% | 70\% |  | 1.42 | 8.6 | 9.8 |  |  |  |  |  |  |  |  | 14,998 | 13,446 |  |  |  |  | 14,998 | 13,446 |  |
| 2/27/2017 | FALSE | FALSE | FALSE | 3.85 | 10.33 | 7.64 | 50\% | 37\% | 74\% |  | 1.35 | 8.6 | 9.4 |  |  |  |  |  |  |  |  | 14,998 | 13,446 |  |  |  |  | 14,998 | 13,446 |  |
| 2/28/2017 | FALSE | FALSE | FALSE | 3.75 | 10.29 | 7.40 | 51\% | 36\% | 72\% |  | 1.39 | 8.6 | 8.8 |  |  |  |  |  |  |  |  | 14,998 | 13,446 |  |  |  |  | 14,998 | 13,446 |  |
| 3/1/2017 | FALSE | FALSE | FALSE | 3.61 | 10.25 | 7.17 | 50\% | 35\% | 70\% |  | 1.43 | 8.6 | 8.2 | 194.30 | 209.00 | 1.08 |  | 11,619 | 12,498 |  |  | 14,575 | 13,327 |  | 11,619 | 12,498 |  | 14,575 | 13,327 |  |
| 3/2/2017 | ${ }_{\text {FAALSE }}$ | FALSE | ${ }_{\text {FALSE }}$ | 3.49 3 3.49 | 9.67 | 7.03 | 50\% | 36\% | 73\% |  | 1.38 | 8.6 | 7.9 | 111.20 | 98.00 | 0.88 |  | 6,520 | 5,746 |  |  | 13,680 | 12,485 |  | 6,520 | 5,746 |  | 13,680 | 12,485 |  |
| 3/3/2017 | FALSE | FALSE | FALSE | 3.49 | 9.46 | 6.92 | 50\% | 37\% | 73\% |  | 1.37 | 8.6 | 7.6 |  |  |  |  |  |  |  |  | 13,680 | 12,485 |  |  |  |  | 13,680 | 12,485 |  |
| 3/4/2017 | FALSE | FALSE | TRUE | 3.60 3.50 | 9.97 | 6.77 | 53\% | 36\% | 68\% |  | 1.47 | 8.6 | 7.4 |  |  |  |  |  |  |  |  | 13,680 | 12,485 |  |  |  |  | 13,680 14,037 | 12,485 12,582 |  |
| 3/5/2017 | FALSE | FALSE | FALSE | 3.50 | 10.17 | 6.76 | 52\% | 34\% | 66\% |  | 1.50 | 8.6 | 7.2 |  |  |  |  |  |  |  |  | 14,037 | 12,582 |  |  |  |  | 14,037 | 12,582 |  |
| 3/6/2017 | FALSE | FALSE | FALSE | 3.46 | 9.40 | 6.69 | 52\% | 37\% | 71\% |  | 1.41 | 8.5 | 7.0 |  |  |  |  |  |  |  |  | 14,132 | 12,303 |  |  |  |  | 14,132 | 12,303 |  |
| 3/7/2017 | FALSE | FALSE | FALSE | 3.41 | 9.53 | 6.59 | 52\% | 36\% | 69\% |  | 1.45 | 8.5 | 6.9 |  |  |  |  |  |  |  |  | 14,132 | 12,303 |  |  |  |  | 14,132 | 12,303 |  |
| 3/8/2017 | FALSE | FALSE | FALSE | 3.31 3.36 | 9.28 | 6.48 | 51\% | 36\% | 70\% |  | 1.43 | 8.4 | 6.8 | 239.70 | 241.00 | 1.01 |  | 12,954 | 13,024 |  |  | 13,985 1 13740 | 12,393 |  | 12,954 11556 | 13,024 |  | 13,985 | 12,393 |  |
| $3 / 9 / 2017$ $3 / 10 / 2017$ | FALSE | ${ }_{\text {FALSE }}^{\text {TRUE }}$ | FALSE | 3.36 <br> 3.44 | 9.04 8.85 | 6.48 | 52\% | 37\% | 72\% |  | $1.40$ | 8.4 83 | 6.7 66 | 218.00 | 241.00 | 1.11 |  | 11,781 | 13,024 |  |  | 13,740 13,740 | 12,463 |  | 11,556 | 12,920 |  | 13,715 13715 | 12,451 12,451 |  |
| 3/10/2017 3/11/2017 | ${ }_{\text {FALSE }}$ FALSE | ${ }_{\text {TRUE }}^{\text {TRUE }}$ | FALSE | 3.44 <br> 3.33 | 8.85 8.84 | $6.26$ | 55\% | 39\% | 71\% |  | $\begin{aligned} & 1.41 \\ & 1.48 \end{aligned}$ | 8.3 8 | 6.6 6.5 |  |  |  |  |  |  |  |  | 13,740 13,441 | 12,463 12,570 |  |  |  |  | ${ }^{13,715}$ | 12,451 |  |
| $3 / 11 / 2017$ $3 / 12 / 2017$ | FALSE | true | FALSE | $\begin{aligned} & 3.33 \\ & 3.31 \end{aligned}$ | $8.84$ | $5.96$ | 56\% | 38\% | 67\% |  | $1.48$ | $\begin{aligned} & 8.2 \\ & 8.0 \end{aligned}$ | $6.5$ |  |  |  |  |  |  |  |  | 13,441 | $\begin{aligned} & 12,570 \\ & 12.454 \end{aligned}$ |  |  |  |  | $13,413$ | $12,557$ |  |
| 3/12/2017 3/13/2017 | $\begin{aligned} & \text { FALLE } \\ & \text { EAASE } \end{aligned}$ | $\begin{aligned} & \text { TRUE } \\ & \text { TRUE } \end{aligned}$ | FALSE | $\begin{aligned} & 3.31 \\ & 3.34 \end{aligned}$ | $\begin{aligned} & 7.84 \\ & 7.60 \end{aligned}$ | $\begin{aligned} & 5.66 \\ & 5.64 \end{aligned}$ | $59 \%$ | $42 \%$ | $\begin{aligned} & 71 \% \\ & 74 \% \end{aligned}$ |  | $\begin{aligned} & 1.40 \\ & 1.35 \end{aligned}$ | $\begin{aligned} & 8.0 \\ & 7.8 \end{aligned}$ | $\begin{aligned} & 6.4 \\ & 6.2 \end{aligned}$ |  |  |  |  |  |  |  |  | $\begin{aligned} & 13,185 \\ & 13,185 \end{aligned}$ | $\begin{aligned} & 12,454 \\ & 12,454 \end{aligned}$ |  |  |  |  | $\begin{aligned} & 13,153 \\ & 1,553 \end{aligned}$ | $\begin{aligned} & 12,439 \\ & 12,439 \end{aligned}$ |  |
| 3/14/2017 | FALSE | TRUE | FALSE | 3.32 3.32 | 7.45 | 5.57 | 60\% | 45\% | 75\% |  | 1.34 | 7.7 | 6.1 |  |  |  |  |  |  |  |  | 13,185 | 12,454 |  |  |  |  | 13,153 | 12,439 |  |
| 3/15/2017 | FALSE | TRUE | FALSE | 3.27 | 7.35 | 5.65 | 58\% | 44\% | 77\% |  | 1.30 | 7.6 | 6.0 | 245.50 | 240.00 | 0.98 |  | 11,568 | 11,309 |  |  | 12,983 | 12,311 |  | 11,568 | 11,309 |  | 12,955 | 12,298 |  |
| 3/16/2017 | FALSE | TRUE | FALSE | 3.29 | 7.48 | 5.65 | 58\% | 44\% | 76\% |  | 1.32 | 7.5 | 5.9 | 242.70 | 239.00 | 0.98 |  | 11,436 | 11,262 |  |  | 12,811 | 12,194 |  | 11,436 | 11,262 |  | 12,786 | 12,183 |  |
| 3/17/2017 | true | TRUE | FALSE | 3.27 | 7.52 | 5.60 | 58\% | 43\% | 74\% |  | 1.34 | 7.4 | 5.7 |  |  |  |  |  |  |  |  | 12,811 | 12,194 |  |  |  |  | 12,786 | 12,183 |  |
| 3/18/2017 | true | TRUE | TRUE | 3.28 | 8.09 | 5.60 | 59\% | 41\% | 69\% |  | 1.44 | 7.4 | 5.7 |  |  |  |  |  |  |  |  | 12,811 | 12,194 |  |  |  |  | 12,786 | 12,183 |  |
| 3/19/2017 | true | TRUE | FALSE | 3.17 | 8.39 | 5.82 | 54\% | 38\% | 69\% |  | 1.44 | 7.3 | 5.6 |  |  |  |  |  |  |  |  | 12,352 | 12,069 |  |  |  |  | 12,323 | 12,056 |  |
| 3/20/2017 | true | TRUE | TRUE | 3.23 | 8.44 | 6.21 | 52\% | 38\% | 74\% |  | 1.36 | 7.3 | 5.7 |  |  |  |  |  |  |  |  | 11,463 | 11,283 |  |  |  |  | 11,431 | 11,268 |  |
| 3/21/2017 | true | FALSE | TRUE | 3.65 | 9.70 | 6.97 | 52\% | 38\% | 72\% |  | 1.39 | 7.3 | 5.9 |  |  |  |  |  |  |  |  | 11,463 | 11,283 |  |  |  |  | 11,431 | 11,268 |  |
| 3/22/2017 | TRUE | FALSE | TRUE | 3.91 | 10.37 | 7.72 | 51\% | 38\% | 74\% |  | 1.34 | 7.1 | 6.2 | 288.40 | 271.00 | 0.94 |  | 18,569 | 17,448 |  |  | 12,351 | 12,053 |  | 18,569 | 17,448 |  | 12,323 | 12,040 |  |
| 3/23/2017 | TRUE | FALSE | TRUE | 4.02 | 10.60 | 7.53 | 53\% | 38\% | 71\% |  | 1.41 | 7.0 | 6.4 | 235.90 | 204.00 | 0.86 |  | 14,815 | 12,811 |  |  | 12,625 | 12,138 |  | 14,815 | 12,811 |  | 12,600 | 12,126 |  |
| 3/24/2017 | TRUE | FALSE | TRUE | 3.70 | 13.17 | 8.99 | 41\% | 28\% | 68\% | MinAvg | 1.46 | 6.8 | 6.5 |  |  |  |  |  |  |  |  | 12,625 | 12,138 |  |  |  |  | 12,600 | 12,126 |  |
| 3/25/2017 | FALSE | FALSE | FALSE | 5.42 | 12.92 | 8.83 | 61\% | 42\% | 68\% |  | 1.46 | 6.8 | 7.0 |  |  |  |  |  |  |  |  | 12,408 | 12,140 |  |  |  |  | 12,379 | 12,127 |  |
| 3/26/2017 | FALSE | FALSE | TRUE | 4.39 | 11.45 | 8.03 | 55\% | 38\% | 70\% |  | 1.43 | 6.8 | 7.3 |  |  |  |  |  |  |  |  | 12,408 | 12,140 |  |  |  |  | 12,379 | 12,127 |  |
| 3/27/2017 | FALSE | FALSE | FALSE | 3.89 | 10.53 | 7.61 | 51\% | 37\% | 72\% |  | 1.38 | 6.7 | 7.6 |  |  |  | 21.00 |  |  | 1,333 |  | 12,408 | 12,140 | 1,333 |  |  | 1,333 | 12,379 | 12,127 | 1,333 |
| 3/28/2017 | FALSE | FALSE | FALSE | 3.86 | 11.00 | 7.40 | 52\% | 35\% | 67\% |  | 1.49 | 6.7 | 7.7 |  |  |  |  |  |  |  |  | 12,408 | 12,140 | 1,333 |  |  |  | 12,379 | 12,127 | 1,333 |
| 3/29/2017 | FALSE | FALSE | FALSE | 3.76 | 10.32 | 7.15 | 53\% | 36\% | 69\% |  | 1.44 | 6.7 | 7.8 | 160.00 | 178.00 | 1.11 |  | 9,541 | 10,614 |  |  | 12,089 | 11,971 | 1,333 | 9,541 | 10,614 |  | 12,064 | 11,959 | 1,333 |
| 3/30/2017 | FALSE | FALSE | FALSE | 3.72 | 9.75 | 6.92 | 54\% | 38\% | 71\% |  | 1.41 | 6.7 | 7.6 | 140.00 | 172.00 | 1.23 |  | 8,080 | 9,927 |  |  | 11,688 | 11,766 | 1,333 | 8,080 | 9,927 |  | 11,666 | 11,756 | 1,333 |
| 3/31/2017 | FALSE | FALSE | FALSE | 3.60 | 9.73 | 6.78 | 53\% | 37\% | 70\% |  | 1.44 | 6.6 | 7.5 |  |  |  |  |  |  |  |  | 11,688 | 11,766 | 1,333 |  |  |  | 11,666 | 11,756 | 1,333 |
| 4/1/2017 | FALSE | FALSE | ${ }^{\text {FALLSE }}$ | 3.51 3 | 9.37 | 6.40 | 55\% | 37\% | ${ }^{68 \%}$ |  | 1.46 | 6.6 | 7.4 |  |  |  |  |  |  |  |  | 11,696 | 11,685 | 1,333 1,333 |  |  |  | 11,671 | 11,674 | 1,333 <br> 1,333 |
| 4/2/2017 | FALSE | FALSE | FALSE | 3.42 | 9.38 | 6.38 | 54\% | 36\% | 68\% |  | 1.47 | 6.6 | 7.1 |  |  |  |  |  |  |  |  | 12,343 | 12,428 | 1,333 |  |  |  | 12,315 | 12,415 | 1,333 |
| 4/3/2017 | FALSE | FALSE | FALSE | 3.33 | 9.19 | 6.42 | 52\% | 36\% | 70\% |  | 1.43 | 6.6 | 6.9 |  |  |  |  |  |  |  |  | 12,343 | 12,428 | 1,333 |  |  |  | 12,315 | 12,415 | 1,333 |
| 4/4/2017 | FALSE | FALSE | FALSE | 3.42 | 9.59 | 6.42 | 53\% | 36\% | 67\% |  | 1.49 | 6.6 | 6.7 |  |  |  |  |  |  |  |  | 12,343 | 12,428 | 1,333 |  |  |  | 12,315 | 12,415 | 1,333 |
| 4/5/2017 | FALSE | FALSE | FALSE | 3.34 | 9.43 | 6.33 | 53\% | 35\% | 67\% |  | 1.49 | 6.6 | 6.6 | 260.80 | 214.00 | 0.82 |  | 13,768 | 11,298 |  |  | 12,501 | 12,302 | 1,333 | 13,768 | 11,298 |  | 12,476 | 12,290 | 1,333 |
| 4/6/2017 | FALSE | FALSE | true | 3.43 | 10.75 | 6.66 | 52\% | 32\% | 62\% |  | 1.61 | 6.6 | 6.5 | 254.40 | 198.00 | 0.78 |  | 14,130 | 10,998 |  |  | 12,664 | 12,172 | 1,333 | 14,130 | 10,998 |  | 12,642 | 12,161 | 1,333 |


| Date | $\begin{aligned} & \text { Butte } \\ & \text { Break? } \end{aligned}$ | $\begin{gathered} \text { csu } \\ \text { Break? } \end{gathered}$ | Precip? |  | $\begin{gathered} \text { Max } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | $\begin{gathered} \text { Avg } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | $\underset{\text { Avg }}{\mathrm{Min} \% \text { of }}$ | $\begin{gathered} \text { Min \% of } \\ \text { Max } \end{gathered}$ | Avg \% of | $\begin{aligned} & \text { Flow } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | $\begin{aligned} & \text { Diurnal } \\ & \text { Peak } \\ & \text { Factor } \\ & \text { (DPF) } \end{aligned}$ | $\begin{aligned} & \text { 30-d Avg } \\ & \text { of Avg } \end{aligned}$ Flow, mgd | 7-d Avg of Avg Flow, mgd | Influent TSS Conc., mg/L | $\begin{aligned} & \text { Influent } \\ & \text { BoD } \\ & \text { Conc., } \\ & \text { mg/L } \end{aligned}$ | BoD/TSS Ratio | Influent NH3-N Conc., mg/L | Avg Inf TSS Load, ppd | Avg Inf BOD Load, ppd | Avg $\operatorname{lnf}$ NH3 Load, ppd | $\begin{aligned} & \text { Load } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | 30-d Avg Load, ppd | 30-d Avg of BOD Load, ppd | 30-d Avg of NH3-N Load, ppd | non-SN TSS Load, ppd | non-SN ppd | non-SN ppd | $\begin{gathered} \text { 30-d Avg } \\ \text { of non-SN } \\ \text { TSS Load, } \\ \text { ppd } \end{gathered}$ | $\begin{gathered} \text { 30-d Avg } \\ \text { of non-SN } \\ \text { BOD Load, } \\ \text { ppd } \end{gathered}$ | $\begin{aligned} & \text { 30-d AVg } \\ & \text { of non-SN } \\ & \text { NH3-N } \\ & \text { Load, ppd } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 4/7/2017 | FALSE | FALSE | TRUE | 4.98 | 11.74 | 8.52 | 58\% | 42\% | 73\% |  | 1.38 | 6.6 | 6.7 |  |  |  |  |  |  |  |  | 12,664 | 12,172 | 1,333 |  |  |  | 12,642 | 12,161 | 1,333 |
| 4/8/2017 | FALSE | FALSE | TRUE | 4.25 | 11.05 | 7.69 | 55\% | 38\% | 70\% |  | 1.44 | 6.7 | 6.9 |  |  |  |  |  |  |  |  | 12,632 | 12,077 | 1,333 |  |  |  | 12,607 | 12,065 | 1,333 |
| 4/9/2017 | FALSE | FALSE | FALSE | 3.72 | 10.44 | 7.12 | 52\% | 36\% | 68\% |  | 1.47 | 6.7 | 6.9 |  |  |  |  |  |  |  |  | 12,738 | 11,958 | 1,333 |  |  |  | 12,738 | 11,958 | 1,333 |
| 4/10/2017 | FALSE | FALSE | FALSE | 3.66 | 10.13 | 6.99 | 52\% | 36\% | 69\% |  | 1.45 | 6.7 | 7.0 |  |  |  |  |  |  |  |  | 12,738 | 11,958 | 1,333 |  |  |  | 12,738 | 11,958 | 1,333 |
| 4/11/2017 | FALSE | FALSE | true | 3.64 | 9.73 | 6.99 | 52\% | 37\% | 72\% |  | 1.39 | 6.7 | 7.1 |  |  |  |  |  |  |  |  | 12,738 | 11,958 | 1,333 |  |  |  | 12,738 | 11,958 | 1,333 |
| 4/12/2017 | FALSE | FALSE | TRUE | 3.66 | 9.57 | 7.09 | 52\% | 38\% | 74\% |  | 1.35 | 6.8 | 7.2 | 261.00 | 276.00 | 1.06 |  | 15,433 | 16,320 |  |  | 13,038 | 12,443 | 1,333 | 15,433 | 16,320 |  | 13,038 | 12,443 | 1,333 |
| 4/13/2017 | FALSE | FALSE | true | 4.23 | 10.21 | 7.81 | 54\% | 41\% | 76\% |  | 1.31 | 6.9 | 7.4 | 209.90 | 237.00 | 1.13 |  | 13,672 | 15,437 |  |  | 13,101 | 12,742 | 1,333 | 13,672 | 15,437 |  | 13,101 | 12,742 | 1,333 |
| 4/14/2017 | FALSE | FALSE | FALSE | 4.37 | 10.73 | 7.80 | 56\% | 41\% | 73\% |  | 1.38 | 6.9 | 7.5 |  |  |  |  |  |  |  |  | 13,101 | 12,742 | 1,333 |  |  |  | 13,101 | 12,742 | 1,333 |
| 4/15/2017 | FALSE | FALSE | FALSE | 3.92 | 9.50 | 7.04 | 56\% | 41\% | 74\% |  | 1.35 | 7.0 | 7.3 |  |  |  |  |  |  |  |  | 13,272 | 12,902 | 1,333 |  |  |  | 13,272 | 12,902 | 1,333 |
| 4/16/2017 | FALSE | FALSE | True | 3.67 | 9.74 | 7.18 | 51\% | 38\% | 74\% |  | 1.36 | 7.0 | 7.3 |  |  |  |  |  |  |  |  | 13,501 | 13,107 | 1,333 |  |  |  | 13,501 | 13,107 | 1,333 |
| 4/17/2017 | FALSE | FALSE | true | 4.36 | 10.09 | 8.05 | 54\% | 43\% | 80\% |  | 1.25 | 7.1 | 7.4 |  |  |  |  |  |  |  |  | 13,501 | 13,107 | 1,333 |  |  |  | 13,501 | 13,107 | 1,333 |
| 4/18/2017 | FALSE | FALSE | TRUE | 4.10 | 10.68 | 7.68 | 53\% | 38\% | 72\% |  | 1.39 | 7.2 | 7.5 |  |  |  |  |  |  |  |  | 13,501 | 13,107 | 1,333 |  |  |  | 13,501 | 13,107 | 1,333 |
| 4/19/2017 | FALSE | FALSE | true | 3.84 | 10.34 | 7.49 | 51\% | 37\% | 72\% |  | 1.38 | 7.2 | 7.5 |  |  |  |  |  |  |  |  | 13,501 | 13,107 | 1,333 |  |  |  | 13,501 | 13,107 | 1,333 |
| 4/20/2017 | FALSE | FALSE | FALSE | 3.82 | 10.23 | 7.10 | 54\% | 37\% | 69\% |  | 1.44 | 7.3 | 7.5 | 203.00 | 192.00 | 0.95 |  | 12,020 | 11,369 |  |  | 13,336 | 12,914 | 1,333 | 11,657 | 11,226 |  | 13,296 | 12,898 | 1,333 |
| 4/21/2017 | FALSE | FALSE | FALSE | 3.63 | 9.73 | 6.90 | 53\% | 37\% | 71\% |  | 1.41 | 7.3 | 7.4 | 182.00 | 179.00 | 0.98 |  | 10,473 | 10,301 |  |  | 13,050 | 12,652 | 1,333 | 10,473 | 10,301 |  | 13,014 | 12,638 | 1,333 |
| 4/22/2017 | FALSE | FALSE | false | 3.68 | 8.88 | 6.68 | 55\% | 41\% | 75\% |  | 1.33 | 7.2 | 7.3 |  |  |  |  |  |  |  |  | 12,437 | 12,119 | 1,333 |  |  |  | 12,397 | 12,103 | 1,333 |
| 4/23/2017 | FALSE | FALSE | FALSE | 3.99 | 9.00 | 7.66 | 52\% | 44\% | 85\% |  | 1.17 | 7.2 | 7.3 |  |  |  |  |  |  |  |  | 12,140 | 12,033 | 1,333 |  |  |  | 12,094 | 12,015 | 1,333 |
| 4/24/2017 | FALSE | FALSE | true | 3.44 | 9.45 | 6.71 | 51\% | 36\% | 71\% |  | 1.41 | 7.2 | 7.3 |  |  |  |  |  |  |  |  | 12,140 | 12,033 | 1,333 |  |  |  | 12,094 | 12,015 | 1,333 |
| 4/25/2017 | FALSE | FALSE | FALSE | 3.34 | 9.08 | 6.43 | 52\% | 37\% | 71\% |  | 1.41 | 7.1 | 7.1 |  |  |  |  |  |  |  |  | 12,140 | 12,033 | 1,333 |  |  |  | 12,094 | 12,015 | 1,333 |
| 4/26/2017 | FALSE | FALSE | True | 3.49 | 9.10 | 6.53 | 53\% | 38\% | 72\% |  | 1.39 | 7.1 | 6.9 | 269.60 | 242.00 | 0.90 |  | 14,682 | 13,179 |  |  | 12,422 | 12,160 | 1,333 | 14,682 | 13,179 |  | 12,382 | 12,144 | 1,333 |
| 4/27/2017 | FALSE | FALSE | true | 3.49 | 9.05 | 6.44 | 54\% | 39\% | 71\% |  | 1.41 | 7.1 | 6.8 |  |  |  |  |  |  |  |  | 12,422 | 12,160 |  |  |  |  | 12,382 | 12,144 |  |
| 4/28/2017 | FALSE | FALSE | FALSE | 3.22 | 8.70 | 6.26 | 51\% | 37\% | 72\% |  | 1.39 | 7.0 | 6.7 |  |  |  |  |  |  |  |  | 12,422 | 12,160 |  |  |  |  | 12,382 | 12,144 |  |
| 4/29/2017 | FALSE | FALSE | FALSE | 3.30 | 8.42 | 6.02 | 55\% | 39\% | 71\% |  | 1.40 | 7.0 | 6.6 |  |  |  |  |  |  |  |  | 12,782 | 12,354 |  |  |  |  | 12,737 | 12,336 |  |
| 4/30/2017 | FALSE | FALSE | false | 3.26 | 8.26 | 5.95 | 55\% | 39\% | 72\% |  | 1.39 | 7.0 | 6.5 |  |  |  |  |  |  |  |  | 13,454 | 12,700 |  |  |  |  | 13,402 | 12,680 |  |
| 5/1/2017 | FALSE | FALSE | FALSE | 3.26 | 8.26 | 5.95 | 55\% | 39\% | 72\% |  | 1.39 | 6.9 | 6.3 |  |  |  |  |  |  |  |  | 13,454 | 12,700 |  |  |  |  | 13,402 | 12,680 |  |
| 5/2/2017 | FALSE | FALSE | FALSE | 3.25 | 8.66 | 6.13 | 53\% | 38\% | 71\% |  | 1.41 | 6.9 | 6.2 |  |  |  |  |  |  |  |  | 13,454 | 12,700 |  |  |  |  | 13,402 | 12,680 |  |
| 5/3/2017 | FALSE | FALSE | FALSE | 3.29 | 8.57 | 5.99 | 55\% | 38\% | 70\% |  | 1.43 | 6.9 | 6.2 | 253.00 | 253.00 | 1.00 |  | 12,639 | 12,639 |  |  | 13,352 | 12,693 |  | 12,639 | 12,639 |  | 13,307 | 12,675 |  |
| 5/4/2017 | FALSE | FALSE | false | 3.30 | 8.47 | 6.08 | 54\% | 39\% | 72\% |  | 1.39 | 6.9 | 6.1 | 281.50 |  |  |  | 14,274 |  |  |  | 13,455 | 12,693 |  | 14,274 |  |  | 13,414 | 12,675 |  |
| 5/5/2017 | FALSE | FALSE | FALSE | 3.36 | 8.42 | 6.06 | 55\% | 40\% | 72\% |  | 1.39 | 6.9 | 6.1 |  |  |  |  |  |  |  |  | 13,455 | 12,693 |  |  |  |  | 13,414 | 12,675 |  |
| 5/6/2017 | FALSE | FALSE | false | 3.24 | 8.17 | 5.78 | 56\% | 40\% | 71\% |  | 1.41 | 6.9 | 6.0 |  |  |  |  |  |  |  |  | 13,416 | 12,892 |  |  |  |  | 13,370 | 12,871 |  |
| 5/7/2017 | FALSE | FALSE | FALSE | 3.14 | 8.10 | 5.73 | 55\% | 39\% | 71\% |  | 1.41 | 6.8 | 6.0 |  |  |  |  |  |  |  |  | 13,313 | 13,208 |  |  |  |  | 13,262 | 13,184 |  |
| 5/8/2017 | FALSE | FALSE | FALSE | 3.26 | 8.51 | 5.91 | 55\% | 38\% | 69\% |  | 1.44 | 6.7 | 6.0 |  |  |  |  |  |  |  |  | 13,313 | 13,208 |  |  |  |  | 13,262 | 13,184 |  |
| 5/9/2017 | FALSE | FALSE | FALSE | 3.24 | 8.48 | 5.90 | 55\% | 38\% | 70\% |  | 1.44 | 6.7 | 5.9 |  |  |  |  |  |  |  |  | 13,313 | 13,208 |  |  |  |  | 13,262 | 13,184 |  |
| 5/10/2017 | FALSE | FALSE | FALSE | 3.28 | 8.35 | 5.91 | 55\% | 39\% | 71\% |  | 1.41 | 6.7 | 5.9 |  |  |  |  |  |  |  |  | 13,313 | 13,208 |  |  |  |  | 13,262 | 13,184 |  |
| 5/11/2017 | FALSE | FALSE | FALSE | 3.27 | 8.30 | 5.99 | 55\% | 39\% | 72\% |  | 1.39 | 6.6 | 5.9 | 257.00 | 206.00 | 0.80 |  | 12,839 | 10,291 |  |  | 13,254 | 12,791 |  | 12,839 | 10,291 |  | 13,209 | 12,770 |  |
| 5/12/2017 | FALSE | FALSE | FALSE | 3.19 | 8.12 | 5.84 | 55\% | 39\% | 72\% |  | 1.39 | 6.6 | 5.9 | 254.00 | 242.00 | 0.95 |  | 12,371 | 11,787 |  |  | 13,156 | 12,665 |  | 12,371 | 11,787 |  | 13,116 | 12,647 |  |
| 5/13/2017 | FALSE | FALSE | FALSE | 3.19 | 7.91 | 5.65 | 56\% | 40\% | 71\% |  | 1.40 | 6.5 | 5.8 |  |  |  |  |  |  |  |  | 12,871 | 12,143 |  |  |  |  | 12,826 | 12,123 |  |
| 5/14/2017 | FALSE | FALSE | FALSE | 3.14 | 7.95 | 5.60 | 56\% | 39\% | 70\% |  | 1.42 | 6.5 | 5.8 |  |  |  |  |  |  |  |  | 12,757 | 11,594 |  |  |  |  | 12,705 | 11,570 |  |
| 5/15/2017 | FALSE | FALSE | FALSE | 3.18 | 7.96 | 5.92 | 54\% | 40\% | 74\% |  | 1.34 | 6.4 | 5.8 |  |  |  |  |  |  |  |  | 12,757 | 11,594 |  |  |  |  | 12,705 | 11,570 |  |
| 5/16/2017 | FALSE | FALSE | FALSE | 3.21 | 8.42 | 6.05 | 53\% | 38\% | 72\% |  | 1.39 | 6.4 | 5.9 |  |  |  |  |  |  |  |  | 12,757 | 11,594 |  |  |  |  | 12,705 | 11,570 |  |
| 5/17/2017 | FALSE | FALSE | FALSE | 3.18 | 8.03 | 5.83 | 55\% | 40\% | 73\% |  | 1.38 | 6.3 | 5.8 | 275.00 | 252.00 | 0.92 |  | 13,371 | 12,253 |  |  | 12,834 | 11,688 |  | 13,322 | 12,191 |  | 12,782 | 11,659 |  |
| 5/18/2017 | FALSE | FALSE | FALSE | 3.29 | 8.24 | 5.85 | 56\% | 40\% | 71\% |  | 1.41 | 6.3 | 5.8 | 251.00 | 255.00 | 1.02 |  | 12,246 | 12,441 |  |  | 12,769 | 11,783 |  | 12,246 | 12,441 |  | 12,723 | 11,757 |  |
| 5/19/2017 | FALSE | FALSE | FALSE | 3.26 | 7.89 | 5.85 | 56\% | 41\% | 74\% |  | 1.35 | 6.2 | 5.8 |  |  |  |  |  |  |  |  | 12,769 | 11,783 |  |  |  |  | 12,723 | 11,757 |  |
| 5/20/2017 | FALSE | FALSE | FALSE | 3.29 | 7.69 | 5.63 | 58\% | 43\% | 73\% |  | 1.37 | 6.1 | 5.8 |  |  |  |  |  |  |  |  | 12,769 | 11,783 |  |  |  |  | 12,723 | 11,757 |  |
| 5/21/2017 | FALSE | TRUE | FALSE | 3.32 | 7.45 | 5.57 | 60\% | 45\% | 75\% |  | 1.34 | 6.1 | 5.8 |  |  |  |  |  |  |  |  | 12,862 | 11,842 |  |  |  |  | 12,856 | 11,833 |  |
| 5/22/2017 | FALSE | TRUE | FALSE | 3.24 | 7.88 | 5.66 | 57\% | 41\% | 72\% |  | 1.39 | 6.1 | 5.8 |  |  |  |  |  |  |  |  | 13,203 | 12,098 |  |  |  |  | 13,196 | 12,088 |  |
| 5/23/2017 | FALSE | TRUE | FALSE | 3.38 | 7.92 | 5.66 | 60\% | 43\% | 71\% |  | 1.40 | 6.0 | 5.8 | 264.60 | 221.00 | 0.84 |  | 12,490 | 10,432 |  |  | 13,114 | 11,860 |  | 12,490 | 10,432 |  | 13,108 | 11,851 |  |
| 5/24/2017 | FALSE | TRUE | FALSE | 3.34 | 7.97 | 5.65 | 59\% | 42\% | 71\% |  | 1.41 | 6.0 | 5.7 |  |  |  |  |  |  |  |  | 13,114 | 11,860 |  |  |  |  | 13,108 | 11,851 |  |
| 5/25/2017 | FALSE | TRUE | FALSE | 3.25 | 7.85 | 5.60 | 58\% | 41\% | 71\% |  | 1.40 | 5.9 | 5.7 |  |  |  |  |  |  |  |  | 13,114 | 11,860 |  |  |  |  | 13,108 | 11,851 |  |
| 5/26/2017 | TRUE | TRUE | FALSE | 3.20 | 7.67 | 5.51 | 58\% | 42\% | 72\% |  | 1.39 | 5.9 | 5.6 | 287.10 | 272.00 | 0.95 |  | 13,193 | 12,499 |  |  | 13,123 | 11,940 |  | 13,193 | 12,499 |  | 13,117 | 11,932 |  |
| 5/27/2017 | ${ }_{\text {TRUE }}^{\text {TRE }}$ | ${ }_{\text {TRUE }}^{\text {TREE }}$ | FALSE | 3.18 316 | 7.29 | 5.20 | ${ }_{61 \%}$ | 44\% | 71\% |  | 1.40 | 5.8 | 5.6 |  |  |  |  |  |  |  |  | 12,928 | ${ }^{11,763}$ |  |  |  |  | 12,922 | 11,754 |  |
| 5/28/2017 | TRUE | TRUE | FALSE | 3.16 | 6.91 | 5.04 | 63\% | 46\% | 73\% |  | 1.37 | 5.8 | 5.5 |  |  |  |  |  |  |  |  | 12,928 | 11,763 |  |  |  |  | 12,922 | 11,754 |  |
| 5/299/2017 $5 / 30 / 2017$ | TRUE TRUE | TRUE TRUE | FALSE | 3.10 3.11 | 7.21 7.50 | 5.27 5.56 | 59\% | $43 \%$ $41 \%$ | 73\% |  | 1.37 1.35 | 5.8 5.8 | 5.4 5.4 |  |  |  |  |  |  |  |  | 12,928 | 11,763 11763 |  |  |  |  | 12,922 12922 | 11,754 |  |
| 5/30/2017 | TRUE | TRUE | FALSE | 3.11 | 7.50 | 5.56 | 56\% | 41\% | 74\% |  | 1.35 1.36 | 5.8 | 5.4 |  |  |  |  |  |  |  |  | 12,928 13,317 | 11,763 117888 |  |  |  |  | 12,922 | 11,754 |  |
| 5/31/2017 | TRUE TRUE | TRUE TRUE | TRUE | 3.35 3.29 | 7.55 7.62 | 5.55 5.55 | 60\% | 44\% | 74\% |  | 1.36 1.37 | 5.7 5.7 | 5.4 5.4 | 355.00 265.30 | 255.00 29.00 | 0.72 0.83 |  | 16,432 12,280 | 11,803 10,137 |  |  | 13,317 13,214 | 11,768 11,587 |  | 16,432 12,280 | 11,803 10,137 |  | 13,312 13,209 | 11,760 11,580 |  |
| 6/1/2017 6/2/2017 | TRUE TRUE | TRUE TRUE | FALSE | 3.29 <br> 3.21 | 7.62 7.45 | 5.55 5.29 | 59\% | 43\% $43 \%$ | 73\% |  | 1.37 1.41 | 5.7 5.7 | 5.4 5.4 | 265.30 | 219.00 | 0.83 |  | 12,280 | 10,137 |  |  | 13,214 13,214 | 11,587 11,587 |  | 12,280 | 10,137 |  | 13,209 13,209 | 11,580 11,580 |  |
| 6/3/2017 | TRUE | true | FALSE | 3.12 | 7.14 | 5.17 | 60\% | 44\% | 72\% |  | 1.38 | 5.7 | 5.3 |  |  |  |  |  |  |  |  | 13,277 | 11,455 |  |  |  |  | 13,272 | 11,448 |  |
| 6/4/2017 | TRUE | true | FALSE | 3.21 | 7.29 | 5.22 | 61\% | 44\% | 72\% |  | 1.40 | 5.6 | 5.3 |  |  |  |  |  |  |  |  | 13,153 | 11,455 |  |  |  |  | 13,147 | 11,448 |  |
| 6/5/2017 | TRUE | TRUE | FALSE | 3.21 | 7.73 | 5.36 | 60\% | 42\% | 69\% |  | 1.44 | 5.6 | 5.4 |  |  |  |  |  |  |  |  | 13,153 | 11,455 |  |  |  |  | 13,147 | 11,448 |  |
| 6/6/2017 | true | true | FALSE | 3.19 | 7.53 | 5.38 | 59\% | 42\% | 71\% |  | 1.40 | 5.6 | 5.4 |  |  |  |  |  |  |  |  | 13,153 | 11,455 |  |  |  |  | 13,147 | 11,448 |  |
| 6/7/2017 | TRUE | TRUE | FALSE | 3.26 | 7.63 | 5.52 | 59\% | 43\% | 72\% |  | 1.38 | 5.6 | 5.4 | 277.60 | 209.00 | 0.75 |  | 12,780 | 9,622 |  |  | 13,111 | 11,252 |  | 12,780 | 9,622 |  | 13,106 | 11,245 |  |
| 6/8/2017 | TRUE | TRUE | TRUE | 3.23 | 7.62 | 5.76 | 56\% | 42\% | 76\% |  | 1.32 | 5.6 | 5.4 | 279.30 | 273.00 | 0.98 |  | 13,417 | 13,114 |  |  | 13,142 | 11,438 |  | 13,417 | 13,114 |  | 13,137 | 11,432 |  |



| Date | $\begin{aligned} & \text { Butte } \\ & \text { Break? } \end{aligned}$ | $\begin{gathered} \text { csu } \\ \text { Break? } \end{gathered}$ | Precip? | $\begin{aligned} & \text { Min } \\ & \text { Influent } \\ & \text { Flow, mgd } \end{aligned}$ | $\begin{aligned} & \text { Max } \\ & \text { Influent } \\ & \text { Flow, mgd } \end{aligned}$ |  | $\begin{aligned} & \text { Min \% of } \\ & \text { Avg } \end{aligned}$ | Min \% of Max | Avg \% of <br> Max | $\begin{aligned} & \text { Flow } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | $\begin{aligned} & \text { Diurnal } \\ & \text { Peak } \\ & \text { Factor } \\ & \text { (DPFF) } \end{aligned}$ | $\begin{gathered} \text { 30-d Avg } \\ \text { of Avg } \\ \text { Flow, mgd } \end{gathered}$ | 7-d Avg of Avg Flow, mgd | Influent TSS Conc., mg/L | Influent BOD Conc., mg/L | BOD/TSS | Influent NH3-N Conc., $\mathrm{mg} / \mathrm{L}$ | $\begin{aligned} & \text { Avg Inf } \\ & \text { TSS Load, } \\ & \text { ppd } \end{aligned}$ | $\begin{gathered} \text { Avg } \operatorname{lnf} \\ \text { BOD Load, } \\ \text { ppd } \end{gathered}$ | Avg Inf NH3 Load, ppd | $\begin{aligned} & \text { Load } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | 30-d Avg of TSS Load, ppd | 30-d Avg of BOD Load, ppd | 30-d Avg of NH3-N Load, ppd | non-SN ppd | non-SN BOD Load, ppd | non-SN ppd | 30-d Avg TSS Load, ppd | 30-d Avg BOD Load, ppd | $30-\mathrm{d}$ Avg of non-SN NH3-N Load, ppd |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 8/11/2017 | TRUE | TRUE | FALSE | 3.23 | 7.45 | 5.38 | 60\% | 43\% | 72\% |  | 1.38 | 5.2 | 5.3 |  |  |  |  |  |  |  |  | 10,924 | 9,311 |  |  |  |  | 10,924 | 9,304 |  |
| 8/12/2017 | TRUE | TRUE | FALSE | 3.24 | 7.38 | 5.21 | 62\% | 44\% | 71\% |  | 1.42 | 5.2 | 5.3 |  |  |  |  |  |  |  |  | 10,772 | 9,388 |  |  |  |  | 10,772 | 9,381 |  |
| 8/13/2017 | true | TRUE | FALSE | 3.19 | 7.42 | 5.27 | 61\% | 43\% | 71\% |  | 1.41 | 5.2 | 5.3 |  |  |  |  |  |  |  |  | 10,772 | 9,328 |  |  |  |  | 10,772 | 9,328 |  |
| 8/14/2017 | TRUE | TRUE | FALSE | 3.20 | 7.44 | 5.57 | 57\% | 43\% | 75\% |  | 1.34 | 5.2 | 5.4 |  |  |  |  |  |  |  |  | 10,855 | 9,562 |  |  |  |  | 10,855 | 9,562 |  |
| 8/15/2017 | TRUE | TRUE | FALSE | 3.26 | 7.72 | 5.56 | 59\% | 42\% | 72\% |  | 1.39 | 5.3 | 5.4 |  |  |  |  |  |  |  |  | 10,855 | 9,562 |  |  |  |  | 10,855 | 9,562 |  |
| 8/16/2017 | true | TRUE | FALSE | 3.19 | 7.81 | 5.54 | 58\% | 41\% | 71\% |  | 1.41 | 5.3 | 5.4 | 222.65 | 241.00 | 1.08 |  | 10,287 | 11,135 |  |  | 10,792 | 9,737 |  | 10,287 | 11,135 |  | 10,792 | 9,737 |  |
| 8/17/2017 | true | TRUE | FALSE | 3.29 | 7.59 | 5.63 | 58\% | 43\% | 74\% |  | 1.35 | 5.3 | 5.5 | 254.00 | 308.00 | 1.21 |  | 11,926 | 14,462 |  |  | 10,906 | 10,209 |  | 11,926 | 14,462 |  | 10,906 | 10,209 |  |
| 8/18/2017 | true | TRUE | FALSE | 3.21 | 7.70 | 5.66 | 57\% | 42\% | 74\% |  | 1.36 | 5.3 | 5.5 |  |  |  |  |  |  |  |  | 10,906 | 10,209 |  |  |  |  | 10,906 | 10,209 |  |
| 8/19/2017 | true | TRUE | FALSE | 3.26 | 8.27 | 5.65 | 58\% | 39\% | 68\% |  | 1.46 | 5.3 | 5.5 |  |  |  |  |  |  |  |  | 10,968 | 10,013 |  |  |  |  | 10,968 | 10,013 |  |
| 8/20/2017 | true | TRUE | FALSE | 3.16 | 8.48 | 5.80 | 54\% | 37\% | 68\% |  | 1.46 | 5.3 | 5.6 |  |  |  |  |  |  |  |  | 10,877 | 9,768 |  |  |  |  | 10,877 | 9,768 |  |
| 8/21/2017 | true | TRUE | FALSE | 3.15 | 8.85 | 5.84 | 54\% | 36\% | 66\% |  | 1.52 | 5.3 | 5.7 |  |  |  |  |  |  |  |  | 10,877 | 9,768 |  |  |  |  | 10,877 | 9,768 |  |
| 8/2/2017 | FALSE | FALSE | FALSE | 3.32 | 8.90 | 5.98 | 56\% | 37\% | 67\% |  | 1.49 | 5.4 | 5.7 |  |  |  |  |  |  |  |  | 10,877 | 9,768 |  |  |  |  | 10,877 | 9,768 |  |
| 8/23/2017 | FALSE | FALSE | FALSE | 3.15 | 8.78 | 5.89 | 53\% | 36\% | 67\% |  | 1.49 | 5.4 | 5.7 | 265.00 | 306.00 | 1.15 |  | 13,017 | 15,032 |  |  | 11,115 | 10,353 |  | 13,017 | 15,032 |  | 11,115 | 10,353 |  |
| 8/24/2017 | FALSE | FALSE | FALSE | 3.20 | 8.57 | 5.97 | 54\% | 37\% | 70\% |  | 1.44 | 5.4 | 5.8 |  |  |  |  |  |  |  |  | 11,115 | 10,353 |  |  |  |  | 11,115 | 10,353 |  |
| 8/25/2017 | FALSE | FALSE | FALSE | 3.24 | 8.25 | 5.83 | 56\% | 39\% | 71\% |  | 1.42 | 5.4 | 5.8 |  |  |  |  |  |  |  |  | 11,115 | 10,353 |  |  |  |  | 11,115 | 10,353 |  |
| 8/26/2017 | FALSE | FALSE | FALSE | 3.25 | 8.39 | 5.66 | 57\% | 39\% | 67\% |  | 1.48 | 5.5 | 5.8 |  |  |  |  |  |  |  |  | 11,147 | 10,573 |  |  |  |  | 11,147 | 10,573 |  |
| 8/27/2017 | FALSE | FALSE | FALSE | 3.16 | 8.57 | 5.66 | 56\% | 37\% | 66\% |  | 1.51 | 5.5 | 5.8 |  |  |  |  |  |  |  |  | 11,163 | 10,711 |  |  |  |  | 11,163 | 10,711 |  |
| 8/28/2017 | FALSE | FALSE | FALSE | 3.25 | 8.89 | 5.82 | 56\% | 37\% | 65\% |  | 1.53 | 5.5 | 5.8 |  |  |  |  |  |  |  |  | 11,163 | 10,711 |  |  |  |  | 11,163 | 10,711 |  |
| 8/29/2017 | FALSE | FALSE | false | 3.26 | 8.38 | 5.78 | 56\% | 39\% | 69\% |  | 1.45 | 5.5 | 5.8 |  |  |  |  |  |  |  |  | 11,163 | 10,711 |  |  |  |  | 11,163 | 10,711 |  |
| 8/30/2017 | FALSE | FALSE | FALSE | 3.22 | 8.48 | 5.95 | 54\% | 38\% | 70\% |  | 1.43 | 5.6 | 5.8 |  |  |  |  |  |  |  |  | 11,163 | 10,711 |  |  |  |  | 11,163 | 10,711 |  |
| 8/31/2017 | FALSE | FALSE | FALSE | 3.18 | 8.65 | 5.82 | 55\% | 37\% | 67\% |  | 1.49 | 5.6 | 5.8 | 236.40 | 329.00 | 1.39 |  | 11,475 | 15,969 |  |  | 11,202 | 11,368 |  | 11,475 | 15,969 |  | 11,202 | 11,368 |  |
| 9/1/2017 | FALSE | FALSE | FALSE | 3.21 | 8.22 | 5.80 | 55\% | 39\% | 71\% |  | 1.42 | 5.6 | 5.8 | 228.60 | 316.00 | 1.38 |  | 11,058 | 15,286 |  |  | 11,186 | 11,803 |  | 11,058 | 15,286 |  | 11,186 | 11,803 |  |
| 9/2/2017 | FALSE | FALSE | FALSE | 3.25 | 7.98 | 5.54 | 59\% | 41\% | 69\% |  | 1.44 | 5.6 | 5.8 |  |  |  |  |  |  |  |  | 11,076 | 12,245 |  |  |  |  | 11,076 | 12,245 |  |
| 9/3/2017 | FALSE | FALSE | FALSE | 3.22 | 7.97 | 5.41 | 60\% | 40\% | 68\% |  | 1.47 | 5.6 | 5.7 |  |  |  |  |  |  |  |  | 11,535 | 13,144 |  |  |  |  | 11,535 | 13,144 |  |
| 9/4/2017 | FALSE | FALSE | FALSE | 3.19 | 8.43 | 5.70 | 56\% | 38\% | 68\% |  | 1.48 | 5.6 | 5.7 |  |  |  |  |  |  |  |  | 11,535 | 13,144 |  |  |  |  | 11,535 | 13,144 |  |
| 9/5/2017 | FALSE | FALSE | TRUE | 3.25 | 8.35 | 5.92 | 55\% | 39\% | 71\% |  | 1.41 | 5.6 | 5.7 |  |  |  |  |  |  |  |  | 11,535 | 13,144 |  |  |  |  | 11,535 | 13,144 |  |
| 9/6/2017 | FALSE | FALSE | FALSE | 3.36 | 8.58 | 6.00 | 56\% | 39\% | 70\% |  | 1.43 | 5.7 | 5.8 |  |  |  |  |  |  |  |  | 11,535 | 13,144 |  |  |  |  | 11,535 | 13,144 |  |
| 9/7/2017 | FALSE | FALSE | FALSE | 3.23 | 8.68 | 6.02 | 54\% | 37\% | 69\% |  | 1.44 | 5.7 | 5.8 | 294.50 | 390.00 | 1.32 |  | 14,786 | 19,581 |  | BоD | 11,941 | 13,144 |  | 14,786 | 19,581 |  | 11,941 | 13,144 |  |
| 9/8/2017 | FALSE | FALSE | false | 3.22 | 8.33 | 5.91 | 54\% | 39\% | 71\% |  | 1.41 | 5.7 | 5.8 | 237.40 | 315.00 | 1.33 |  | 11,701 | 15,526 |  |  | 11,915 | 13,442 |  | 11,701 | 15,526 |  | 11,915 | 13,442 |  |
| 9/9/2017 | FALSE | FALSE | FALSE | 3.20 | 8.33 | 5.72 | 56\% | 38\% | 69\% |  | 1.46 | 5.7 | 5.8 |  |  |  |  |  |  |  |  | 11,936 | 13,871 |  |  |  |  | 11,936 | 13,871 |  |
| 9/10/2017 | FALSE | FALSE | false | 3.22 | 8.41 | 5.80 | 56\% | 38\% | 69\% |  | 1.45 | 5.7 | 5.8 |  |  |  |  |  |  |  |  | 12,036 | 14,568 |  |  |  |  | 12,036 | 14,568 |  |
| 9/11/2017 | FALSE | FALSE | FALSE | 3.12 | 8.39 | 5.94 | 53\% | 37\% | 71\% |  | 1.41 | 5.7 | 5.9 |  |  |  |  |  |  |  |  | 12,036 | 14,568 |  |  |  |  | 12,036 | 14,568 |  |
| 9/12/2017 | FALSE | FALSE | FALSE | 3.37 | 8.80 | 6.00 | 56\% | 38\% | 68\% |  | 1.47 | 5.8 | 5.9 |  |  |  | 50.90 |  |  | 2,547 | NH3 | 12,036 | 14,568 |  |  |  | 2,547 | 12,036 | 14,568 |  |
| 9/13/2017 | FALSE | FALSE | FALSE | 3.41 | 8.58 | 6.00 | 57\% | 40\% | 70\% |  | 1.43 | 5.8 | 5.9 | 195.70 | 221.00 | 1.13 |  | 9,793 | 11,059 |  |  | 11,755 | 14,067 |  | 9,793 | 11,059 |  | 11,755 | 14,067 |  |
| 9/14/2017 | FALSE | FALSE | FALSE | 3.24 | 8.79 | 6.03 | 54\% | 37\% | 69\% |  | 1.46 | 5.8 | 5.9 | 257.10 | 284.00 | 1.10 |  | 12,930 | 14,282 |  |  | 11,886 | 14,094 |  | 12,930 | 14,282 |  | 11,886 | 14,094 |  |
| 9/15/2017 | False | FALSE | FALSE | 3.21 | 8.23 | 5.92 | 54\% | 39\% | 72\% |  | 1.39 | 5.8 | 5.9 |  |  |  |  |  |  |  |  | 11,886 | 14,094 |  |  |  |  | 11,886 | 14,094 |  |
| 9/16/2017 | FALSE | FALSE | FALSE | 3.27 | 8.45 | 5.74 | 57\% | 39\% | 68\% |  | 1.47 | 5.8 | 5.9 |  |  |  |  |  |  |  |  | 12,086 | 14,517 |  |  |  |  | 12,086 | 14,517 |  |
| 9/17/2017 | FALSE | FALSE | FALSE | 3.19 | 8.71 | 5.82 | 55\% | 37\% | 67\% |  | 1.50 | 5.8 | 5.9 |  |  |  |  |  |  |  |  | 12,109 | 14,526 |  |  |  |  | 12,109 | 14,526 |  |
| 9/18/2017 | FALSE | FALSE | FALSE | 3.31 | 8.37 | 6.01 | 55\% | 40\% | 72\% |  | 1.39 | 5.8 | 5.9 |  |  |  |  |  |  |  |  | 12,109 | 14,526 |  |  |  |  | 12,109 | 14,526 |  |
| 9/19/2017 | FALSE | FALSE | FALSE | 3.15 3 3 | 8.36 8.59 | 5.99 | 53\% | 38\% | 72\% |  | 1.40 | 5.8 | 5.9 |  |  |  |  |  |  |  |  | 12,109 | 14,526 |  |  |  |  | 12,109 | 14,526 |  |
| 9/20/2017 | FALSE | FALSE | FALSE | 3.25 | 8.59 | 6.09 | 53\% | 38\% | 71\% |  | 1.41 | 5.9 | 6.0 | 258.90 | 385.00 | 1.49 |  | 13,150 | 19,554 |  |  | 12,239 | 15,244 |  | 13,150 | 19,554 |  | 12,239 | 15,244 |  |
| 9/21/2017 | FALSE | FALSE | FALSE | 3.20 | 8.38 | 6.01 | 53\% | 38\% | 72\% |  | 1.39 | 5.9 | 6.0 | 289.60 | 282.00 | 0.97 |  | 14,516 | 14,135 |  |  | 12,492 | 15,105 |  | 14,516 | 14,135 |  | 12,492 | 15,105 |  |
| 9/2//2017 | FALSE | FALSE | FALSE | 3.21 | 8.48 | 5.88 | 55\% | 38\% | 69\% |  | 1.44 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 12,492 | 15,105 |  |  |  |  | 12,492 | 15,105 |  |
| 9/23/2017 | FALSE | FALSE | FALSE | 3.16 | 8.57 | 5.73 | 55\% | 37\% | 67\% |  | 1.50 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 12,426 | 15,116 |  |  |  |  | 12,426 | 15,116 |  |
| 9/24/2017 | FALSE | FALSE | FALSE | 3.21 | 8.79 | 5.87 | 55\% | 37\% | 67\% |  | 1.50 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 12,426 | 15,116 |  |  |  |  | 12,426 | 15,116 |  |
| 9/25/2017 | False | FALSE | FALSE | 3.17 | 8.33 | 5.94 | 53\% | 38\% | 71\% |  | 1.40 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 12,426 | 15,116 |  |  |  |  | 12,426 | 15,116 |  |
| 9/26/2017 | False | FALSE | FALSE | 3.17 | 9.21 | 5.94 | 53\% | 34\% | 64\% |  | 1.55 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 12,426 | 15,116 |  |  |  |  | 12,426 | 15,116 |  |
| 9/27/2017 | FALSE | FALSE | FALSE | 3.24 | 8.53 | 5.90 | 55\% | 38\% | 69\% |  | 1.45 | 5.9 | 5.9 | 247.80 |  |  |  | 12,193 |  |  |  | 12,400 | 15,116 |  | 12,193 |  |  | 12,400 | 15,116 |  |
| 9/28/2017 | FALSE | FALSE | FALSE | 3.22 | 8.81 | 5.93 | 54\% | 37\% | 67\% |  | 1.49 | 5.9 | 5.9 | 247.90 | 266.00 | 1.07 |  | 12,260 | 13,155 |  |  | 12,386 | 14,871 |  | 12,059 | 13,115 |  | 12,366 | 14,866 |  |
| 9/29/2017 | FALSE | FALSE | FALSE | 3.19 | 8.33 | 5.96 | 54\% | 38\% | 72\% |  | 1.40 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 12,386 | 14,871 |  |  |  |  | 12,366 | 14,866 |  |
| 9/30/2017 | FALSE | FALSE | FALSE | 3.25 | 8.63 | 5.76 | 56\% | 38\% | 67\% |  | 1.50 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 12,386 | 14,871 |  |  |  |  | 12,366 | 14,866 |  |
| 101/2017 | FALSE | FALSE | FALSE | 3.14 | 8.56 | 5.78 | 54\% | 37\% | 68\% |  | 1.48 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 12,487 | 14,714 |  |  |  |  | 12,465 | 14,708 |  |
| 10/2/2017 | FALSE | FALSE | FALSE | 3.13 | 8.31 | 5.80 | 54\% | 38\% | 70\% |  | 1.43 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 12,666 | 14,619 |  |  |  |  | 12,641 | 14,612 |  |
| 10/3/2017 | False | FALSE | FALSE | 3.21 | 8.49 | 5.90 | 54\% | 38\% | 69\% |  | 1.44 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 12,666 | 14,619 |  |  |  |  | 12,641 | 14,612 |  |
| 10/4/2017 | FALSE | FALSE | FALSE | 3.18 3.14 | 8.82 | 5.85 575 | 54\% | 36\% | 66\% |  | 1.51 | 5.9 | 5.9 | $\begin{array}{r}273.50 \\ \hline 2623\end{array}$ | 289.00 | 1.06 |  | 13,344 12,574 | 14,100 |  |  | 12,771 | 14,545 |  | 13,344 | 14,100 |  | 12,719 <br> 12704 | 14,539 |  |
| 10/5/2017 | FALSE | FALSE | FALSE | 3.14 | 8.21 | 5.75 | 55\% | 38\% | 70\% |  | 1.43 | 5.9 | 5.8 | 262.20 | 271.00 | 1.03 |  | 12,574 | 12,996 |  |  | 12,725 | 14,351 |  | 12,574 | 12,996 |  | 12,704 | 14,346 |  |
| 10/6/2017 | FALSE | FALSE | FALSE | 3.12 3 | 8.37 | 5.85 5 5.65 | 53\% | 37\% | 70\% |  | 1.43 | 5.9 | 5.8 |  |  |  |  |  |  |  |  | 12,725 | 14,351 |  |  |  |  | 12,704 | 14,346 |  |
| 10/7/2017 | FALSE | FALSE | FALSE | 3.22 | 8.49 | 5.65 | 57\% | 38\% | 67\% |  | 1.50 | 5.9 | 5.8 |  |  |  |  |  |  |  |  | 12,725 | 14,351 |  |  |  |  | 12,704 | 14,346 |  |
| 101/8/2017 | FALSE | FALSE | FALSE | 3.11 | 8.41 | 5.71 | 54\% | 37\% | 68\% |  | 1.47 | 5.9 | 5.8 |  |  |  |  |  |  |  |  | 12,496 | 14,351 |  |  |  |  | 12,473 <br> 1250 | 14,346 |  |
| 10/9/2017 10/10/2017 | FALSE FALSE | FALSE | FALSE | 3.06 3.22 | 8.19 8.37 | 5.83 5.95 | $\begin{aligned} & 52 \% \\ & 54 \% \end{aligned}$ | $37 \%$ | $\begin{aligned} & 71 \% \\ & 71 \% \\ & 71 \end{aligned}$ |  | $\begin{aligned} & 1.40 \\ & { }_{1.41} \end{aligned}$ | $\begin{aligned} & 5.9 \\ & 5.9 \end{aligned}$ | 5.8 5.8 |  |  |  |  |  |  |  |  | 12,595 12,595 | 14,183 14,183 |  |  |  |  | 12,570 12,570 | 14,177 |  |
| 10/11/2017 | FALSE | FALSE | FALSE | 3.20 | 8.68 | 5.90 | 54\% | 37\% | 68\% |  | 1.47 | 5.9 | 5.8 | 265.80 | 284.00 | 1.07 |  | 13,079 | 13,975 |  |  | 12,649 | 14,157 |  | 13,079 | 13,975 |  | 12,626 | 14,152 |  |
| 10/12/2017 | FALSE | FALSE | FALSE | 3.15 | 8.40 | 5.85 | 54\% | 38\% | 70\% |  | 1.44 | 5.9 | 5.8 | 345.50 | 262.00 | 0.76 |  | 16,857 | 12,783 |  |  | 13,069 | 14,004 |  | 16,857 | 12,783 |  | 13,049 | 14,000 |  |


| Date | Butte <br> Break? | $\begin{gathered} \text { csu } \\ \text { Break? } \end{gathered}$ | Precip? | $\begin{gathered} \text { Mnfinent } \\ \text { flow, mgd } \end{gathered}$ | $\begin{gathered} \text { Max } \\ \substack{\text { Influent } \\ \text { Flow, mgd }} \end{gathered}$ | Avg Influent Flow, mgd | ${ }_{\text {Ain } \% \text { of }}$ | Min \% of | Avg \% of | $\begin{aligned} & \text { Flow } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | $\begin{aligned} & \text { Diurnal } \\ & \text { Peak } \\ & \text { Factor } \\ & \text { (DPF) } \end{aligned}$ | $\begin{gathered} \text { 30-d Avg } \\ \text { of Avg } \\ \text { Flow, mgd } \end{gathered}$ | 7-d Avg of Avg Flow, mgd | Influent TSS Conc., mg/L | Influent BOD Conc. mg/L | Bod/Tss Ratio | Influent NH3-N Conc., mg/L | Avg Inf TSS Load, ppd | Avg Inf BOD Load, ppd | Avg Inf NH3 Load, ppd | $\begin{aligned} & \text { Load } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | 30-d Avg of TSS Load, ppd | 30-d Avg of BOD Load, ppd | 30-d Avg of NH3-N Load, ppd | $\begin{aligned} & \text { non-SN } \\ & \text { TSS Load, } \\ & \text { ppd } \end{aligned}$ | non-SN BOD Load, ppd | $\underset{\substack{\text { non-SN } \\ \text { NH3 Load, } \\ \text { ppd }}}{ }$ | 30-d Avg of non-SN TSS Load, ppd | $\begin{aligned} & \text { 30-d Avg } \\ & \text { of non-SN } \\ & \text { BOD Load, } \\ & \text { ppd } \end{aligned}$ | 30-d Avg of non-SN NH3-N Load, ppd |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 10/13/2017 | FALSE | FALSE | FALSE | 3.20 | 8.47 | 5.84 | 55\% | 38\% | 69\% |  | 1.45 | 5.9 | 5.8 |  |  |  |  |  |  |  |  | 13,069 | 14,004 |  |  |  |  | 13,049 | 14,000 |  |
| 10/14/2017 | FALSE | FALSE | FALSE | 3.17 | 8.65 | 5.73 | 55\% | 37\% | 66\% |  | 1.51 | 5.9 | 5.8 |  |  |  |  |  |  |  |  | 13,434 | 14,372 |  |  |  |  | 13,411 | 14,367 |  |
| 10/15/2017 | FALSE | FALSE | FALSE | 3.16 | 8.87 | 5.78 | 55\% | 36\% | 65\% |  | 1.53 | 5.9 | 5.8 |  |  |  |  |  |  |  |  | 13,497 | 14,385 |  |  |  |  | 13,471 | 14,380 |  |
| 10/16/2017 | FALSE | FALSE | FALSE | 3.17 | 8.44 | 5.86 | 54\% | 38\% | 69\% |  | 1.44 | 5.9 | 5.8 |  |  |  |  |  |  |  |  | 13,497 | 14,385 |  |  |  |  | 13,471 | 14,380 |  |
| 10/17/2017 | FALSE | FALSE | FALSE | 3.22 | 8.39 | 5.88 | 55\% | 38\% | 70\% |  | 1.43 | 5.9 | 5.8 |  |  |  |  |  |  |  |  | 13,497 | 14,385 |  |  |  |  | 13,471 | 14,380 |  |
| 10/18/2017 | FALSE | FALSE | FALSE | 3.15 | 8.27 | 5.80 | 54\% | 38\% | 70\% |  | 1.43 | 5.9 | 5.8 | 238.90 | 261.00 | 1.09 |  | 11,556 | 12,625 |  |  | 13,281 | 14,165 |  | 11,556 | 12,625 |  | 13,258 | 14,160 |  |
| 10/19/2017 | FALSE | FALSE | TRUE | 3.23 | 8.65 | 5.91 | 55\% | 37\% | 68\% |  | 1.46 | 5.9 | 5.8 | 300.50 | 296.00 | 0.99 |  | 14,811 | 14,590 |  |  | 13,434 | 14,212 |  | 14,811 | 14,590 |  | 13,414 | 14,208 |  |
| 10/20/2017 | FALSE | FALSE | true | 3.27 | 8.37 | 6.04 | 54\% | 39\% | 72\% |  | 1.39 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 13,434 | 14,212 |  |  |  |  | 13,414 | 14,208 |  |
| 10/21/2017 | FALSE | FALSE | FALSE | 3.24 | 8.66 | 5.84 | 55\% | 37\% | 67\% |  | 1.48 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 13,466 | 13,545 |  |  |  |  | 13,443 | 13,540 |  |
| 10/22/2017 | FALSE | FALSE | FALSE | 3.24 | 8.74 | 5.84 | 55\% | 37\% | 67\% |  | 1.50 | 5.8 | 5.9 |  |  |  |  |  |  |  |  | 13,334 | 13,460 |  |  |  |  | 13,309 | 13,455 |  |
| 10/23/2017 | FALSE | FALSE | FALSE | 3.17 | 8.44 | 5.89 | 54\% | 38\% | 70\% |  | 1.43 | 5.8 | 5.9 |  |  |  |  |  |  |  |  | 13,334 | 13,460 |  |  |  |  | 13,309 | 13,455 |  |
| 10/24/2017 | FALSE | FALSE | FALSE | 3.20 | 8.64 | 5.84 | 55\% | 37\% | 68\% |  | 1.48 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 13,334 | 13,460 |  |  |  |  | 13,309 | 13,455 |  |
| 10/25/2017 | FALSE | FALSE | FALSE | 3.19 | 8.79 | 5.87 | 54\% | 36\% | 67\% |  | 1.50 | 5.9 | 5.9 | 281.50 | 194.00 | 0.69 |  | 13,781 | 9,497 |  |  | 13,384 | 12,965 |  | 13,781 | 9,497 |  | 13,362 | 12,960 |  |
| 10/26/2017 | FALSE | False | FALSE | 3.24 | 8.39 | 5.95 | 54\% | 39\% | 71\% |  | 1.41 | 5.9 | 5.9 | 27.00 | 232.00 | 0.84 |  | 13,996 | 11,513 |  |  | 13,415 | 12,804 |  | 13,696 | 11,513 |  | 13,395 | 12,799 |  |
| 10/27/2017 | FALSE | FALSE | FALSE | 3.24 | 8.44 | 5.93 | 55\% | 38\% | 70\% |  | 1.42 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 13,415 | 12,804 |  |  |  |  | 13,395 | 12,799 |  |
| 10/28/2017 | FALSE | FALSE | FALSE | 3.24 | 8.50 | 5.85 | 55\% | 38\% | 69\% |  | 1.45 | 5.8 | 5.9 |  |  |  |  |  |  |  |  | 13,551 | 12,804 |  |  |  |  | 13,528 | 12,799 |  |
| 10/29/2017 | FALSE | FALSE | FALSE | 3.23 | 8.46 | 5.79 | 56\% | 38\% | 68\% |  | 1.46 | 5.8 | 5.9 |  |  |  |  |  |  |  |  | 13,712 | 12,760 |  |  |  |  | 13,712 | 12,760 |  |
| 10/30/2017 | FALSE | FALSE | false | 3.33 | 8.41 | 5.90 | 56\% | 40\% | 70\% |  | 1.43 | 5.8 | 5.9 |  |  |  |  |  |  |  |  | 13,712 | 12,760 |  |  |  |  | 13,712 | 12,760 |  |
| 10/31/2017 | FALSE | FALSE | FALSE | 3.20 | 8.72 | 5.85 | 55\% | 37\% | 67\% |  | 1.49 | 5.8 | 5.9 |  |  |  |  |  |  |  |  | 13,712 | 12,760 |  |  |  |  | 13,712 | 12,760 |  |
| 11/1/2017 | False | False | FALSE | 3.20 | 8.40 | 5.87 | 55\% | 38\% | 70\% |  | 1.43 | 5.8 | 5.9 | 257.60 |  |  |  | 12,611 |  |  |  | 13,590 | 12,760 |  | 12,611 |  |  | 13,590 | 12,760 |  |
| 11/2/2017 | FALSE | FALSE | FALSE | 3.22 | 8.45 | 5.99 | 54\% | 38\% | 71\% |  | 1.41 | 5.9 | 5.9 | 135.70 | 91.00 | 0.67 |  | 6,779 | 4,546 |  |  | 12,909 | 11,847 |  | 6,779 | 4,546 |  | 12,909 | 11,847 |  |
| 11/3/2017 | FALSE | FALSE | True | 3.21 | 8.42 | 6.03 | 53\% | 38\% | 72\% |  | 1.40 | 5.9 | 5.9 |  |  |  |  |  |  |  |  | 12,909 | 11,847 |  |  |  |  | 12,909 | 11,847 |  |
| 11/4/2017 | FALSE | FALSE | TRUE | 3.51 | 9.47 | 6.33 | 55\% | 37\% | 67\% |  | 1.50 | 5.9 | 6.0 |  |  |  |  |  |  |  |  | 12,860 | 11,565 |  |  |  |  | 12,860 | 11,565 |  |
| 11/5/2017 | FALSE | FALSE | FALSE | 3.25 | 9.55 | 6.20 | 52\% | 34\% | 65\% |  | 1.54 | 5.9 | 6.0 |  |  |  |  |  |  |  |  | 12,896 | 11,361 |  |  |  |  | 12,896 | 11,361 |  |
| 11/6/2017 | FALSE | FALSE | FALSE | 3.25 | 8.63 | 6.07 | 54\% | 38\% | 70\% |  | 1.42 | 5.9 | 6.0 |  |  |  |  |  |  |  |  | 12,896 | 11,361 |  |  |  |  | 12,896 | 11,361 |  |
| 11/7/2017 | FALSE | FALSE | FALSE | 3.26 | 8.42 | 6.01 | 54\% | 39\% | 71\% |  | 1.40 | 5.9 | 6.0 |  |  |  |  |  |  |  |  | 12,896 | 11,361 |  |  |  |  | 12,896 | 11,361 |  |
| 11/8/2017 | FALSE | FALSE | TRUE | 3.20 | 9.31 | 6.15 | 52\% | 34\% | 66\% |  | 1.51 | 5.9 | 6.1 | 251.70 | 270.00 | 1.07 |  | 12,910 | 13,849 |  |  | 12,898 | 11,672 |  | 12,910 | 13,849 |  | 12,898 | 11,672 |  |
| 11/9/2017 | FALSE | FALSE | True | 3.63 | 9.56 | 6.92 | 52\% | 38\% | 72\% |  | 1.38 | 6.0 | 6.2 | 199.10 | 240.00 | 1.21 |  | 11,491 | 13,851 |  |  | 12,757 | 11,914 |  | 11,491 | 13,851 |  | 12,757 | 11,914 |  |
| 11/10/2017 | FALSE | FALSE | TRUE | 3.40 | 9.54 | 6.51 | 52\% | 36\% | 68\% |  | 1.47 | 6.0 | 6.3 |  |  |  |  |  |  |  |  | 12,757 | 11,914 |  |  |  |  | 12,757 | 11,914 |  |
| 11/11/2017 | FALSE | FALSE | FALSE | 3.38 | 9.00 | 6.15 | 55\% | 38\% | 68\% |  | 1.46 | 6.0 | 6.3 |  |  |  |  |  |  |  |  | 12,721 | 11,657 |  |  |  |  | 12,721 | 11,657 |  |
| 11/12/2017 | FALSE | FALSE | FALSE | 3.27 | 8.83 | 6.13 | 53\% | 37\% | 69\% |  | 1.44 | 6.0 | 6.3 |  |  |  |  |  |  |  |  | 12,204 | 11,496 |  |  |  |  | 12,204 | 11,496 |  |
| 11/13/2017 | FALSE | FALSE | TRUE | 3.25 | 8.60 | 6.27 | 52\% | 38\% | 73\% |  | 1.37 | 6.0 | 6.3 |  |  |  |  |  |  |  |  | 12,204 | 11,496 |  |  |  |  | 12,204 | 11,496 |  |
| 11/14/2017 | False | False | FALSE | 3.34 | 8.69 | 6.23 | 54\% | 38\% | 72\% |  | 1.39 | 6.0 | 6.3 |  |  |  |  |  |  |  |  | 12,204 | 11,496 |  |  |  |  | 12,204 | 11,496 |  |
| 11/15/2017 | False | False | true | 3.27 | 9.50 | 6.65 | 49\% | 34\% | 70\% |  | 1.43 | 6.1 | 6.4 | 234.50 | 252.00 | 1.07 |  | 13,006 | 13,976 |  |  | 12,293 | 11,806 |  | 13,006 | 13,976 |  | 12,293 | 11,806 |  |
| 11/16/2017 | False | FALSE | TRUE | 3.61 | 9.43 | 6.99 | 52\% | 38\% | 74\% |  | 1.35 | 6.1 | 6.5 | 247.80 | 319.00 | 1.29 |  | 14,446 | 18,597 |  |  | 12,509 | 12,560 |  | 14,446 | 18,597 |  | 12,509 | 12,560 |  |
| 11/17/2017 | FALSE | True | false | 3.64 | 8.96 | 6.63 | 55\% | 41\% | 74\% |  | 1.35 | 6.1 | 6.4 |  |  |  |  |  |  |  |  | 12,509 | 12,560 |  |  |  |  | 12,509 | 12,560 |  |
| 11/18/2017 | False | TRUE | false | 3.62 | 8.64 | 6.13 | 59\% | 42\% | 71\% |  | 1.41 | 6.1 | 6.4 |  |  |  |  |  |  |  |  | 12,615 | 12,552 |  |  |  |  | 12,615 | 12,552 |  |
| 11/19/2017 | FALSE | TrUE | FALSE | 3.47 | 8.51 | 5.92 | 59\% | 41\% | 70\% |  | 1.44 | 6.1 | 6.4 |  |  |  |  |  |  |  |  | 12,340 | 12,261 |  |  |  |  | 12,340 | 12,261 |  |
| 11/20/2017 | FALSE | True | true | 3.46 | 8.63 | 6.18 | 56\% | 40\% | 72\% |  | 1.40 | 6.1 | 6.4 |  |  |  |  |  |  |  |  | 12,340 | 12,261 |  |  |  |  | 12,340 | 12,261 |  |
| 11/21/2017 | FALSE | true | true | 3.64 | 8.33 | 6.27 | 58\% | 44\% | 75\% |  | 1.33 | 6.1 | 6.4 | 139.40 | 175.00 | 1.26 |  | 7,289 | 9,151 |  |  | 11,779 | 11,872 |  | 7,289 | 9,151 |  | 11,779 | 11,872 |  |
| 11/22/2017 | true | True | FALSE | 3.42 | 8.26 | 6.05 | 57\% | 41\% | 73\% |  | 1.37 | 6.1 | 6.4 |  |  |  |  |  |  |  |  | 11,779 | 11,872 |  |  |  |  | 11,779 | 11,872 |  |
| 11/23/2017 | true | TRUE | true | 3.26 | 9.03 | 5.47 | 60\% | 36\% | 61\% |  | 1.65 | 6.1 | 6.2 |  |  |  |  |  |  |  |  | 11,779 | 11,872 |  |  |  |  | 11,779 | 11,872 |  |
| 11/24/2017 | TRUE | TRUE | FALSE | 3.21 | 7.67 | 5.22 | 61\% | 42\% | 68\% |  | 1.47 | 6.1 | 6.0 |  |  |  |  |  |  |  |  | 11,779 | 11,872 |  |  |  |  | 11,779 | 11,872 |  |
| 11/25/2017 | TRUE | TRUE | FALSE | 3.21 | 8.14 | 5.44 | 59\% | 39\% | 67\% |  | 1.50 | 6.1 | 5.8 |  |  |  |  |  |  |  |  | 11,528 | 12,212 |  |  |  |  | 11,528 | 12,212 |  |
| 11/26/2017 | TRUE | TRUE | TRUE | 3.20 | 9.66 | 6.39 | 50\% | 33\% | 66\% |  | 1.51 | 6.1 | 5.9 |  |  |  |  |  |  |  |  | 11,219 | 12,328 |  |  |  |  | 11,219 | 12,328 |  |
| 11/27/2017 | TRUE | TRUE | true | 3.39 | 9.28 | 6.85 | 49\% | 37\% | 74\% |  | 1.35 | 6.1 | 6.0 |  |  |  |  |  |  |  |  | 11,219 | 12,328 |  |  |  |  | 11,219 | 12,328 |  |
| 11/28/2017 | FALSE | FALSE | FALSE | 3.43 | 9.11 | 6.65 | 52\% | 38\% | 73\% |  | 1.37 | 6.2 | 6.0 |  |  |  |  |  |  |  |  | 11,219 | 12,328 |  |  |  |  | 11,219 | 12,328 |  |
| 11/29/2017 | FALSE | FALSE | FALSE | 3.33 | 9.11 | 6.43 | 52\% | 37\% | 71\% |  | 1.42 | 6.2 | 6.1 | 198.00 | 229.00 | 1.16 |  | 10,618 | 12,280 |  |  | 11,144 | 12,321 |  | 10,618 | 12,280 |  | 11,144 | 12,321 |  |
| 11/30/2017 | FALSE | FALSE | FALSE | 3.30 | 8.65 | 6.27 | 53\% | 38\% | 72\% |  | 1.38 | 6.2 | 6.1 | 243.30 | 229.00 | 0.94 |  | 12,723 | 11,975 |  |  | 11,319 | 12,278 |  | 12,723 | 11,975 |  | 11,319 | 12,278 |  |
| 12/1/2017 | False | False | false | 3.35 | 8.45 | 6.18 | 54\% | 40\% | 73\% |  | 1.37 | 6.2 | 6.2 |  |  |  |  |  |  |  |  | 11,319 | 12,278 |  |  |  |  | 11,319 | 12,278 |  |
| 12/2/2017 | FALSE | FALSE | FALSE | 3.30 | 9.32 | 6.17 | 53\% | 35\% | 66\% |  | 1.51 | 6.2 | 6.3 |  |  |  |  |  |  |  |  | 11,158 | 12,278 |  |  |  |  | 11,158 | 12,278 |  |
| 12/3/2017 | FALSE | False | false | 3.25 | 8.96 | 6.17 | 53\% | 36\% | 69\% |  | 1.45 | 6.2 | 6.4 |  |  |  |  |  |  |  |  | 11,783 | 13,383 |  |  |  |  | 11,783 | 13,383 |  |
| 12/4/2017 | FALSE | FALSE | FALSE | 3.20 | 8.48 | 6.08 | 53\% | 38\% | 72\% |  | 1.39 | 6.2 | 6.4 |  |  |  |  |  |  |  |  | 11,783 | 13,883 |  |  |  |  | 11,783 | 13,383 |  |
| 12/5/2017 | FALSE | FALSE | FALSE | 3.23 | 8.54 | 6.04 | 53\% | 38\% | 71\% |  | 1.41 | 6.2 | 6.2 |  |  |  |  |  |  |  |  | 11,783 | 13,383 |  |  |  |  | 11,783 | 13,383 |  |
| 12/6/2017 | FALSE | FALSE | FALSE | 3.20 | 8.58 | 6.05 | 53\% | 37\% | 71\% |  | 1.42 | 6.2 | 6.2 | 265.00 | 364.00 | 1.37 |  | 13,371 | 18,366 |  |  | 11,982 | 14,006 |  | 13,371 | 18,366 |  | 11,982 | 14,006 |  |
| 12/7/2017 | FALSE | FALSE | FALSE | 3.22 | 8.26 | 6.03 | 53\% | 39\% | 73\% |  | 1.37 | 6.2 | 6.1 | 240.60 | 281.00 | 1.17 |  | 12,100 | 14,132 |  |  | 11,995 | 14,020 |  | 12,100 | 14,132 |  | 11,995 | 14,020 |  |
| 12/8/2017 | FALSE | FALSE | FALSE | 3.20 | 8.31 | 6.04 | 53\% | 39\% | 73\% |  | 1.38 | 6.2 | 6.1 |  |  |  |  |  |  |  |  | 11,995 | 14,020 |  |  |  |  | 11,995 | 14,020 |  |
| 12/9/2017 | FALSE | FALSE | FALSE | 3.25 | 8.75 | 5.91 | 55\% | 37\% | 68\% |  | 1.48 | 6.2 | 6.1 |  |  |  |  |  |  |  |  | 11,880 | 14,041 |  |  |  |  | 11,880 | 14,041 |  |
| 12/10/2017 12/11/2017 | ${ }_{\text {FALSE }}$ | FALSE | FALSE FALSE | 3.19 3.13 | $8.70$ | $5.90$ | 54\% | $37 \%$ $38 \%$ | $\begin{aligned} & 68 \% \\ & 74 \% \end{aligned}$ |  | $\begin{aligned} & 1.47 \\ & 1.36 \end{aligned}$ | $\begin{aligned} & 6.2 \\ & 6.2 \end{aligned}$ | $\begin{aligned} & 6.0 \\ & 6.0 \end{aligned}$ |  |  |  |  |  |  |  |  | 11,936 11,936 | $\begin{aligned} & 14,068 \\ & 1,068 \end{aligned}$ |  |  |  |  | $\begin{aligned} & 11,936 \\ & 11,936 \end{aligned}$ | $\begin{aligned} & 14,068 \\ & 14,068 \end{aligned}$ |  |
| 12/12/2017 | FALSE | FALSE | FALSE | 3.12 | 8.29 | 5.89 | 53\% | 38\% | 71\% |  | 1.41 | 6.1 | 6.0 |  |  |  |  |  |  |  |  | 11,936 | 14,068 |  |  |  |  | 11,936 | 14,068 |  |
| 12/13/2017 | FALSE | FALSE | FALSE | 3.08 | 8.17 | 5.93 | 52\% | 38\% | 73\% |  | 1.38 | 6.1 | 6.0 | 260.60 | 269.00 | 1.03 |  | 12,888 | 13,304 |  |  | 12,055 | 13,973 |  | 12,888 | 13,304 |  | 12,055 | 13,973 |  |
| 12/14/2017 | FALSE | FALSE | FALSE | 3.12 | 7.89 | 5.94 | 53\% | 40\% | 75\% |  | 1.33 | 6.1 | 6.0 | 297.20 | 25.00 | 0.86 |  | 14,723 | 12,633 |  |  | 12,352 | 13,824 |  | 14,328 | 12,495 |  | 12,308 | 13,808 |  |


| Date | $\begin{aligned} & \text { Butte } \\ & \text { Break? } \end{aligned}$ | $\begin{gathered} \text { csu } \\ \text { Break? } \end{gathered}$ | Precip? | $\underset{\substack{\text { Min } \\ \text { Influent } \\ \text { Flow, mgd }}}{\text { non }}$ | $\begin{gathered} \text { Max }_{\substack{\text { Influent } \\ \text { Flow, } \\ \text { mgd }}} \end{gathered}$ | $\begin{gathered} \text { Avg } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | $\begin{aligned} & \text { Min \% of } \\ & \text { Avg } \end{aligned}$ | Min \% of Max | Avg \% of Max | $\begin{aligned} & \text { Flow } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | $\begin{aligned} & \text { Diurnal } \\ & \text { Peak } \\ & \text { Factor } \\ & \text { (DPF) } \end{aligned}$ | $\begin{gathered} \text { 30-d Avg } \\ \text { of Avg } \end{gathered}$ Flow, mgd | 7-d Avg of Avg Flow, mgd | Influent TSS Conc., mg/L | $\begin{gathered} \text { Influent } \\ \text { BoD } \\ \text { Conc., } \\ \mathrm{mg} / \mathrm{L} \end{gathered}$ | BOD/TSS | Influent NH3-N Conc., mg/L | Avg Inf TSS Load, ppd | Avg Inf BOD Load, ppd | Avg Inf NH3 Load, ppd | $\begin{aligned} & \text { Load } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | 30-d Avg of TSS Load, ppd | 30-d Avg of BOD Load, ppd | 30-d Avg of NH3-N Load, ppd | non-SN TsS Load, ppc | non-SN BOD Load, ppd | non-SN ppd | $\begin{gathered} \text { 30-d Avg } \\ \text { of non-SN } \\ \text { TsS Load, } \\ \text { ppd } \end{gathered}$ | $\begin{aligned} & \text { 30-d Avg } \\ & \text { of non-SN } \\ & \text { BOD Load, } \end{aligned}$ $\mathrm{ppd}$ | 30-d Avg of non-SN NH3-N Load, ppd |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12/15/2017 | TRUE | TRUE | FALSE | 3.05 | 7.80 | 5.84 | 52\% | 39\% | 75\% |  | 1.34 | 6.1 | 5.9 |  |  |  |  |  |  |  |  | 12,352 | 13,824 |  |  |  |  | 12,308 | 13,808 |  |
| 12/16/2017 | true | TRUE | FALSE | 3.15 | 7.97 | 5.61 | 56\% | 40\% | 70\% |  | 1.42 | 6.1 | 5.9 |  |  |  |  |  |  |  |  | 12,270 | 13,805 |  |  |  |  | 12,220 | 13,787 |  |
| 12/17/2017 | true | True | FALSE | 3.11 | 7.79 | 5.51 | 56\% | 40\% | 71\% |  | 1.41 | 6.0 | 5.8 |  |  |  |  |  |  |  |  | 11,959 | 13,120 |  |  |  |  | 11,903 | 13,100 |  |
| 12/18/2017 | true | TRUE | FALSE | 3.16 | 7.38 | 5.52 | 57\% | 43\% | 75\% |  | 1.34 | 6.0 | 5.8 |  |  |  |  |  |  |  |  | 11,959 | 13,120 |  |  |  |  | 11,903 | 13,100 |  |
| 12/19/2017 | true | True | FALSE | 3.14 | 7.52 | 5.62 | 56\% | 42\% | 75\% |  | 1.34 | 6.0 | 5.7 |  |  |  |  |  |  |  |  | 11,959 | 13,120 |  |  |  |  | 11,903 | 13,100 |  |
| 12/20/2017 | true | TRUE | TRUE | 3.22 | 7.42 | 5.59 | 58\% | 43\% | 75\% |  | 1.33 | 6.0 | 5.7 |  |  |  |  |  |  |  |  | 11,959 | 13,120 |  |  |  |  | 11,903 | 13,100 |  |
| 12/21/2017 | true | True | FALSE | 3.10 | 7.48 | 5.56 | 56\% | 41\% | 74\% |  | 1.35 | 6.0 | 5.6 | 270.90 | 274.00 | 1.01 |  | 12,562 | 12,705 |  |  | 12,034 | 13,068 |  | 12,562 | 12,705 |  | 11,985 | 13,051 |  |
| 12/22/2017 | true | TRUE | FALSE | 3.22 | 7.47 | 5.55 | 58\% | 43\% | 74\% |  | 1.35 | 5.9 | 5.6 |  |  |  |  |  |  |  |  | 12,712 | 13,628 |  |  |  |  | 12,656 | 13,608 |  |
| 12/23/2017 | true | TrUE | FALSE | 3.14 | 7.93 | 5.42 | 58\% | 40\% | 68\% |  | 1.46 | 5.9 | 5.5 |  |  |  |  |  |  |  |  | 12,712 | 13,628 |  |  |  |  | 12,656 | 13,608 |  |
| 12/24/2017 | true | TRUE | FALSE | 3.13 | 7.90 | 5.23 | 60\% | 40\% | 66\% |  | 1.51 | 5.9 | 5.5 |  |  |  |  |  |  |  |  | 12,712 | 13,628 |  |  |  |  | 12,656 | 13,608 |  |
| 12/25/2017 | true | TrUE | FALSE | 3.08 | 6.29 | 4.62 | 67\% | 49\% | 73\% |  | 1.36 | 5.9 | 5.4 |  |  |  |  |  |  |  |  | 12,712 | 13,628 |  |  |  |  | 12,656 | 13,608 |  |
| 12/26/2017 | true | true | FALSE | 3.08 | 7.27 | 5.17 | 60\% | 42\% | 71\% |  | 1.41 | 5.9 | 5.3 |  |  |  |  |  |  |  |  | 12,712 | 13,628 |  |  |  |  | 12,656 | 13,608 |  |
| 12/27/2017 | true | true | FALSE | 3.16 | 7.15 | 5.38 | 59\% | 44\% | 75\% |  | 1.33 | 5.8 | 5.3 |  |  |  |  |  |  |  |  | 12,712 | 13,628 |  |  |  |  | 12,656 | 13,608 |  |
| 12/28/2017 | true | TRUE | FALSE | 3.16 | 7.38 | 5.43 | 58\% | 43\% | 74\% |  | 1.36 | 5.8 | 5.3 | 261.70 | 339.00 | 1.30 |  | 11,851 | 15,352 |  |  | 12,605 | 13,843 |  | 11,851 | 15,352 |  | 12,555 | 13,826 |  |
| 12/29/2017 | true | true | FALSE | 3.13 | 7.33 | 5.35 | 59\% | 43\% | 73\% |  | 1.37 | 5.8 | 5.3 |  |  |  |  |  |  |  |  | 12,605 | 13,843 |  |  |  |  | 12,555 | 13,826 |  |
| 12/30/2017 | true | true | FALSE | 3.10 | 7.44 | 5.27 | 59\% | 42\% | 71\% |  | 1.41 | 5.7 | 5.2 |  |  |  |  |  |  |  |  | 12,888 | 14,067 |  |  |  |  | 12,832 | 14,047 |  |
| 12/31/2017 | true | true | FALSE | 3.01 | 7.76 | 5.31 | 57\% | 39\% | 68\% |  | 1.46 | 5.7 | 5.2 |  |  |  |  |  |  |  |  | 12,916 | 14,415 |  |  |  |  | 12,850 | 14,392 |  |
| 1/1/2018 | true | True | FALSE | 3.06 | 6.98 | 4.99 | 61\% | 44\% | 71\% |  | 1.40 | 5.6 | 5.2 |  |  |  |  |  |  |  |  | 12,916 | 14,415 |  |  |  |  | 12,850 | 14,392 |  |
| 1/2/2018 | true | true | FALSE | 2.99 | 7.30 | 5.35 | 56\% | 41\% | 73\% |  | 1.36 | 5.6 | 5.3 |  |  |  |  |  |  |  |  | 12,916 | 14,415 |  |  |  |  | 12,850 | 14,392 |  |
| 1/3/2018 | true | TRUE | FALSE | 3.11 | 7.33 | 5.42 | 57\% | 42\% | 74\% |  | 1.35 | 5.6 | 5.3 | 278.30 |  |  |  | 12,580 |  |  |  | 12,868 | 14,415 |  | 12,580 |  |  | 12,812 | 14,392 |  |
| 1/4/2018 | true | true | true | 3.13 | 7.24 | 5.48 | 57\% | 43\% | 76\% |  | 1.32 | 5.6 | 5.3 | 255.70 | 280.00 | 1.10 |  | 11,686 | 12,797 |  |  | 12,720 | 14,184 |  | 11,886 | 12,797 |  | 12,671 | 14,164 |  |
| 1/5/2018 | true | TRUE | true | 3.14 | 7.51 | 5.52 | 57\% | 42\% | 74\% |  | 1.36 | 5.6 | 5.3 |  |  |  |  |  |  |  |  | 12,720 | 14,184 |  |  |  |  | 12,671 | 14,164 |  |
| 1/6/2018 | True | true | true | 3.12 | 7.73 | 5.49 | 57\% | 40\% | 71\% |  | 1.41 | 5.5 | 5.4 |  |  |  |  |  |  |  |  | 12,627 | 13,487 |  |  |  |  | 12,571 | 13,464 |  |
| 1/7/2018 | true | true | FALSE | 3.02 | 7.87 | 5.56 | 54\% | 38\% | 71\% |  | 1.42 | 5.5 | 5.4 |  |  |  |  |  |  |  |  | 12,715 | 13,358 |  |  |  |  | 12,649 | 13,331 |  |
| 1/8/2018 | True | true | true | 3.06 | 10.98 | 6.65 | 46\% | 28\% | 61\% |  | 1.65 | 5.5 | 5.6 |  |  |  |  |  |  |  |  | 12,715 | 13,358 |  |  |  |  | 12,649 | 13,331 |  |
| 1/9/2018 | TRUE | TRUE | TRUE | 7.70 | 11.66 | 9.80 | 79\% | 66\% | 84\% | inAvgMinM | 1.19 | 5.5 | 5.6 |  |  |  |  |  |  |  |  | 12,715 | 13,358 |  |  |  |  | 12,649 | 13,331 |  |
| 1/10/2018 | True | true | True | 4.22 | 10.62 | 7.41 | 57\% | 40\% | 70\% |  | 1.43 | 5.6 | 5.9 | 176.70 | 217.00 | 1.23 |  | 10,920 | 13,410 |  |  | 12,459 | 13,367 |  | 10,920 | 13,410 |  | 12,402 | 13,344 |  |
| 1/11/2018 | true | TRUE | FALSE | 3.64 | 9.46 | 6.77 | 54\% | 38\% | 72\% |  | 1.40 | 5.6 | 6.1 | 167.60 | 192.00 | 1.15 |  | 9,463 | 10,841 |  |  | 12,084 | 13,006 |  | 9,302 | 10,72 |  | 12,015 | 12,976 |  |
| 1/12/2018 | True | true | FALSE | 3.35 | 8.77 | 6.29 | 53\% | 38\% | 72\% |  | 1.39 | 5.6 | 6.2 |  |  |  |  |  |  |  |  | 12,084 | 13,006 |  |  |  |  | 12,0015 | 12,976 |  |
| 1/13/2018 | TRUE | TRUE | FALSE | 3.29 | 8.46 | 6.06 | 54\% | 39\% | 72\% |  | 1.40 | 5.6 | 6.3 |  |  |  |  |  |  |  |  | 11,969 | 12,956 |  |  |  |  | 11,890 | 12,922 |  |
| 1/14/2018 | true | true | FALSE | 3.25 | 8.67 | 5.90 | 55\% | 37\% | 68\% |  | 1.47 | 5.6 | 6.4 |  |  |  |  |  |  |  |  | 11,510 | 13,021 |  |  |  |  | 11,484 | 13,007 |  |
| 1/1/2018 | true | TRUE | True | 3.18 | 8.59 | 6.09 | 52\% | 37\% | 71\% |  | 1.41 | 5.6 | 6.5 |  |  |  |  |  |  |  |  | 11,510 | 13,021 |  |  |  |  | 11,484 | 13,007 |  |
| 1/16/2018 | true | true | TRUE | 3.37 | 8.44 | 6.14 | 55\% | 40\% | 73\% |  | 1.37 | 5.7 | 6.4 |  |  |  |  |  |  |  |  | 11,510 | 13,021 |  |  |  |  | 11,484 | 13,007 |  |
| 1/17/2018 | true | TRUE | FALSE | 3.35 | 8.65 | 6.13 | 55\% | 39\% | 71\% |  | 1.41 | 5.7 | 6.3 | 219.40 | 283.00 | 1.29 |  | 11,217 | 14,468 |  |  | 11,468 | 13,262 |  | 11,217 | 14,468 |  | 11,445 | 13,251 |  |
| 1/18/2018 | true | TRUE | TRUE | 3.28 | 8.29 | 6.10 | 54\% | 40\% | 74\% |  | 1.36 | 5.7 | 6.2 | 237.80 | 359.00 | 1.51 |  | 12,098 | 18,264 |  |  | 11,547 | 13,977 |  | 12,098 | 18,264 |  | 11,527 | 13,967 |  |
| 1/19/2018 | true | TRUE | FALSE | 3.38 | 8.24 | 6.17 | 55\% | 41\% | 75\% |  | 1.34 | 5.7 | 6.1 |  |  |  |  |  |  |  |  | 11,547 | 13,977 |  |  |  |  | 11,527 | 13,967 |  |
| 1/20/2018 | TRUE | TRUE | FALSE | 3.25 | 8.81 | 6.08 | 53\% | 37\% | 69\% |  | 1.45 | 5.7 | 6.1 |  |  |  |  |  |  |  |  | 11,547 | 13,977 |  |  |  |  | 11,527 | 13,967 |  |
| 1/21/2018 | TRUE | TRUE | TRUE | 3.26 | 9.70 | 6.24 | 52\% | 34\% | 64\% |  | 1.55 | 5.8 | 6.1 |  |  |  |  |  |  |  |  | 11,402 | 14,189 |  |  |  |  | 11,379 | 14,177 |  |
| 1/22/2018 | TRUE | TRUE | TRUE | 3.43 | 9.80 | 7.09 | 48\% | 35\% | 72\% |  | 1.38 | 5.8 | 6.3 |  |  |  |  |  |  |  |  | 11,402 | 14,189 |  |  |  |  | 11,379 | 14,177 |  |
| 1/23/2018 | FALSE | FALSE | FALSE | 3.57 | 9.94 | 6.99 | 51\% | 36\% | 70\% |  | 1.42 | 5.9 | 6.4 |  |  |  |  |  |  |  |  | 11,402 | 14,189 |  |  |  |  | 11,379 | 14,177 |  |
| 1/24/2018 | FALSE | FALSE | TRUE | 3.42 | 9.52 | 6.85 | 50\% | 36\% | 72\% |  | 1.39 | 5.9 | 6.5 | 209.70 | 256.00 | 1.22 |  | 11,980 | 14,625 |  |  | 11,474 | 14,251 |  | 11,980 | 14,625 |  | 11,454 | 14,241 |  |
| 1/25/2018 | FALSE | FALSE | FALSE | 3.43 | 9.53 | 6.85 | 50\% | 36\% | 72\% |  | 1.39 | 6.0 | 6.5 | 190.70 | 290.00 | 1.52 |  | 10,895 | 16,567 |  |  | 11,410 | 14,541 |  | 10,895 | 16,567 |  | 11,392 | 14,532 |  |
| 1/26/2018 | FALSE | FALSE | FALSE | 3.48 | 9.16 | 6.60 | 53\% | 38\% | 72\% |  | 1.39 | 6.0 | 6.6 |  |  |  |  |  |  |  |  | 11,410 | 14,541 |  |  |  |  | 11,392 | 14,532 |  |
| 1/27/2018 | FALSE | FALSE | FALSE | 3.40 | 9.88 | 6.48 | 52\% | 34\% | 66\% |  | 1.52 | 6.1 | 6.6 |  |  |  |  |  |  |  |  | 11,410 | 14,541 |  |  |  |  | 11,392 | 14,532 |  |
| 1/28/2018 | FALSE | FALSE | FALSE | 3.31 | 9.39 | 6.40 | 52\% | 35\% | 68\% |  | 1.47 | 6.1 | 6.7 |  |  |  |  |  |  |  |  | 11,355 | 14,425 |  |  |  |  | 11,335 | 14,415 |  |
| 1/29/2018 | FALSE | FALSE | FALSE | 3.24 | 8.96 | 6.36 | 51\% | 36\% | 71\% |  | 1.41 | 6.1 | 6.7 |  |  |  |  |  |  |  |  | 11,355 | 14,425 |  |  |  |  | 11,335 | 14,415 |  |
| 1/30/2018 | FALSE | FALSE | FALSE | 3.21 | 9.00 | 6.30 | 51\% | 36\% | 70\% |  | 1.43 | 6.2 | 6.6 |  |  |  |  |  |  |  |  | 11,355 | 14,425 |  |  |  |  | 11,335 | 14,415 |  |
| 1/31/2018 | FALSE | FALSE | FALSE | 3.20 | 8.99 | 6.23 | 51\% | 36\% | 69\% |  | 1.44 | 6.2 | 6.5 | 301.50 | 381.00 | 1.26 |  | 15,665 | 19,796 |  | BOD | 11,834 | 14,425 |  | 15,665 | 19,796 |  | 11,816 | 14,415 |  |
| 2/1/2018 | FALSE | FALSE | FALSE | 3.33 | 8.62 | 6.17 | 54\% | 39\% | 72\% |  | 1.40 | 6.2 | 6.4 | 234.70 |  |  |  | 12,077 |  |  |  | 11,858 | 14,425 |  | 12,077 |  |  | 11,842 | 14,415 |  |
| 2/2/2018 | FALSE | FALSE | FALSE | 3.25 | 8.48 | 6.07 | 54\% | 38\% | 72\% |  | 1.40 | 6.3 | 6.3 |  |  |  |  |  |  |  |  | 11,858 | 14,425 |  |  |  |  | 11,842 | 14,415 |  |
| 2/3/2018 | FALSE | FALSE | FALSE | 3.24 | 9.07 | 6.02 | 54\% | 36\% | 66\% |  | 1.51 | 6.3 | 6.3 |  |  |  |  |  |  |  |  | 11,778 | 14,425 |  |  |  |  | 11,760 | 14,415 |  |
| 2/4/2018 | FALSE | FALSE | FALSE | 3.19 | 9.60 | 6.00 | 53\% | 33\% | 63\% |  | 1.60 | 6.3 | 6.2 |  |  |  |  |  |  |  |  | 11,789 | 14,696 |  |  |  |  | 11,769 | 14,684 |  |
| 2/5/2018 | FALSE | FALSE | FALSE | 3.18 | 8.39 | 6.04 | 53\% | 38\% | 72\% |  | 1.39 | 6.3 | 6.1 |  |  |  |  |  |  |  |  | 11,789 | 14,696 |  |  |  |  | 11,769 | 14,684 |  |
| 2/6/2018 | FALSE | FALSE | FALSE | 3.24 | 8.53 | 6.01 | 54\% | 38\% | 70\% |  | 1.42 | 6.3 | 6.1 |  |  |  |  |  |  |  |  | 11,789 | 14,696 |  |  |  |  | 11,769 | 14,684 |  |
| 27/12018 | FALSE | FALSE | FALSE | 3.24 | 8.78 | 6.04 | 54\% | 37\% | 69\% |  | 1.45 | 6.4 | 6.1 |  |  |  |  |  |  |  |  | 11,789 | 14,696 |  |  |  |  | 11,769 | 14,684 |  |
| 2/8/2018 | FALSE | FALSE | FALSE | 3.29 | 8.43 | 5.98 | 55\% | 39\% | 71\% |  | 1.41 | 6.3 | 6.0 | 296.60 | 306.00 | 1.03 |  | 14,792 | 15,261 |  |  | 12,123 | 14,777 |  | 14,792 | 15,261 |  | 12,105 | 14,767 |  |
| 2/9/2018 | FALSE | FALSE | FALSE | 3.14 | 8.33 | 5.95 | 53\% | 38\% | 71\% |  | 1.40 | 6.3 | 6.0 | 245.00 | 263.00 | 1.07 |  | 12,158 | 13,051 |  |  | 12,126 | 14,561 |  | 12,158 | 13,051 |  | 12,110 | 14,552 |  |
| 2/10/2018 | FALSE | FALSE | FALSE | 3.17 | 8.94 | 5.91 | 54\% | 35\% | 66\% |  | 1.51 | 6.3 | 6.0 |  |  |  |  |  |  |  |  | 12,261 | 14,725 |  |  |  |  | 12,243 | 14,715 |  |
| 2/11/2018 | FALSE | FALSE | FALSE | 3.16 | 8.84 | 5.96 | 53\% | 36\% | 67\% |  | 1.48 | 6.2 | 6.0 |  |  |  |  |  |  |  |  | 12,610 | 15,373 |  |  |  |  | 12,610 | 15,373 |  |
| 2/12/2018 | FALSE | FALSE | FALSE | 3.12 | 8.34 | 6.01 | 52\% | 37\% | 72\% |  | 1.39 | 6.2 | 6.0 6.0 |  |  |  |  |  |  |  |  | 12,610 12,610 | 15,373 15,373 |  |  |  |  | 12,610 12,610 | 15,373 15,373 |  |
| 2/13/2018 | FALSE | FALSE | FALSE FALSE | 3.16 3.15 | 8.30 8.60 | 5.90 5.92 | 54\% | $38 \%$ $37 \%$ | 71\% |  | 1.41 1.45 | 6.2 6.2 | 6.0 6.0 |  |  |  |  |  |  |  |  | 12,610 12,610 | 15,373 |  |  |  |  | 12,610 12,610 | 15,373 15,373 |  |
| 2/15/2018 | FALSE | FALSE | FALSE | 3.15 3.17 | 8.60 8.24 | 5.92 5.81 | 55\% | 38\% | 71\% |  | 1.45 1.42 | 6.2 | 6.9 | 257.20 | 285.00 | 1.11 |  | 12,463 | 13,810 |  |  | 12,594 | 15,149 |  | 12,463 | 13,810 |  | 12,594 | 15,149 |  |



| Date | $\begin{aligned} & \text { Butte } \\ & \text { Break? } \end{aligned}$ | $\underset{\text { Break? }}{\text { csu }}$ | Precip? | $\begin{gathered} \text { Min } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | Max Influent Flow, mgd | $\begin{gathered} \text { Avg } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | Min \% of Avg | Min \% of <br> Max | Avg \% of Max | $\begin{aligned} & \text { Flow } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | $\begin{aligned} & \text { Diurnal } \\ & \text { Peak } \\ & \text { Factor } \\ & \text { (DPF) } \end{aligned}$ | $\begin{gathered} \text { 30-d Avg } \\ \text { of Avg } \\ \text { Flow, mgd } \end{gathered}$ | 7-d Avg of Avg Flow, mgd | Influent TSS Conc., mg/L | Influent BOD Conc., mg/L | BOD/TSS Ratio | Influent NH3-N Conc., mg/L | Avg Inf TSS Load, ppd | Avg Inf BOD Load, ppd | Avg Inf NH3 Load, ppd | $\begin{aligned} & \text { Load } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | 30-d Avg of TSS Load, ppd | 30-d Avg of BOD Load, ppd | 30-d Avg of NH3-N Load, ppd | Hon-SN ppd | $\begin{gathered} \text { non-SN } \\ \text { BOD Load, } \\ \text { ppd } \end{gathered}$ | non-SN NH3 Load, ppd | 30-d Avg of non-SN TSS Load, ppd | 30-d Avg of non-SN BOD Load, ppd | 30-d Avg <br> of non-SN NH3-N Load, ppd |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 4/20/2018 | FALSE | FALSE | FALSE | 3.41 | 8.97 | 6.34 | 54\% | 38\% | 71\% |  | 1.41 | 7.0 | 6.7 |  |  |  |  |  |  |  |  | 12,873 | 13,569 | 1,108 |  |  |  | 12,839 | 13,556 | 1,108 |
| 4/21/2018 | FALSE | FALSE | FALSE | 3.36 | 8.79 | 6.07 | 55\% | 38\% | 69\% |  | 1.45 | 6.9 | 6.6 |  |  |  |  |  |  |  |  | 12,132 | 12,611 | 1,108 |  |  |  | 12,087 | 12,594 | 1,108 |
| 4/22/2018 | FALSE | FALSE | FALSE | 3.28 | 8.92 | 6.12 | 54\% | 37\% | 69\% |  | 1.46 | 6.8 | 6.6 |  |  |  |  |  |  |  |  | 11,016 | 12,776 | 1,108 |  |  |  | 11,016 | 12,776 | 1,108 |
| 4/23/2018 | FALSE | FALSE | FALSE | 3.22 | 9.18 | 6.17 | 52\% | 35\% | 67\% |  | 1.49 | 6.8 | 6.5 |  |  |  |  |  |  |  |  | 11,016 | 12,776 | 1,108 |  |  |  | 11,016 | 12,776 | 1,108 |
| 4/24/2018 | FALSE | FALSE | FALSE | 3.25 | 8.84 | 6.18 | 53\% | 37\% | 70\% |  | 1.43 | 6.7 | 6.4 |  |  |  | 22.50 |  |  | 1,160 |  | 11,016 | 12,776 | 1,134 |  |  | 1,160 | 11,016 | 12,776 | 1,134 |
| 4/25/2018 | FALSE | FALSE | FALSE | 3.22 | 8.96 | 6.09 | 53\% | 36\% | 68\% |  | 1.47 | 6.7 | 6.3 |  |  |  | 33.00 |  |  | 1,676 |  | 11,016 | 12,776 | 1,315 |  |  | 1,676 | 11,016 | 12,776 | 1,315 |
| 4/26/2018 | FALSE | FALSE | FALSE | 3.24 | 8.86 | 6.08 | 53\% | 37\% | 69\% |  | 1.46 | 6.7 | 6.2 |  |  |  | 34.00 |  |  | 1,724 |  | 11,016 | 12,776 | 1,417 |  |  | 1,724 | 11,016 | 12,776 | 1,417 |
| 4/27/2018 | FALSE | FALSE | FALSE | 3.26 | 8.63 | 6.06 | 54\% | 38\% | 70\% |  | 1.42 | 6.6 | 6.1 |  |  |  |  |  |  |  |  | 11,016 | 12,776 | 1,417 |  |  |  | 11,016 | 12,776 | 1,417 |
| 4/28/2018 | FALSE | FALSE | FALSE | 3.20 | 8.80 | 5.91 | 54\% | 36\% | 67\% |  | 1.49 | 6.6 | 6.1 |  |  |  |  |  |  |  |  | 11,214 | 12,552 | 1,417 |  |  |  | 11,214 | 12,552 | 1,417 |
| 4/29/2018 | FALSE | FALSE | FALSE | 3.13 | 8.48 | 5.81 | 54\% | 37\% | 69\% |  | 1.46 | 6.6 | 6.1 |  |  |  |  |  |  |  |  |  |  | 1,417 |  |  |  |  |  | 1,417 |
| 4/30/2018 | FALSE | FALSE | FALSE | 3.11 | 8.63 | 5.95 | 52\% | 36\% | 69\% |  | 1.45 | 6.6 | 6.0 |  |  |  |  |  |  |  |  |  |  | 1,417 |  |  |  |  |  | 1,417 |
| 5/1/2018 | FALSE | FALSE | FALSE | 3.20 | 8.71 | 5.91 | 54\% | 37\% | 68\% |  | 1.47 | 6.6 | 6.0 |  |  |  |  |  |  |  |  |  |  | 1,417 |  |  |  |  |  | 1,417 |
| 5/2/2018 | FALSE | FALSE | FALSE | 3.26 | 8.53 | 6.00 | 54\% | 38\% | 70\% |  | 1.42 | 6.6 | 6.0 | 208.80 | 235.00 | 1.13 | 38.50 | 10,448 | 11,759 | 1,927 |  | 10,448 | 11,759 | 1,519 | 10,448 | 11,759 | 1,927 | 10,448 | 11,759 | 1,519 |
| 5/3/2018 | FALSE | FALSE | FALSE | 3.25 | 8.63 | 5.96 | 55\% | 38\% | 69\% |  | 1.45 | 6.5 | 6.0 | 231.00 | 248.00 | 1.07 | 36.80 | 11,482 | 12,327 | 1,829 |  | 10,965 | 12,043 | 1,571 | 11,482 | 12,327 | 1,829 | 10,965 | 12,043 | 1,571 |
| 5/4/2018 | FALSE | FALSE | FALSE | 3.24 | 8.29 | 5.98 | 54\% | 39\% | 72\% |  | 1.39 | 6.5 | 5.9 |  |  |  |  |  |  |  |  | 10,965 | 12,043 | 1,571 |  |  |  | 10,965 | 12,043 | 1,571 |
| 5/5/2018 | False | FALSE | FALSE | 3.27 | 8.26 | 5.93 | 55\% | 40\% | 72\% |  | 1.39 | 6.5 | 5.9 |  |  |  |  |  |  |  |  | 10,965 | 12,043 | 1,571 |  |  |  | 10,965 | 12,043 | 1,571 |
| 5/6/2018 | FALSE | FALSE | FALSE | 3.25 | 8.10 | 5.80 | 56\% | 40\% | 72\% |  | 1.40 | 6.5 | 5.9 |  |  |  |  |  |  |  |  | 10,965 | 12,043 | 1,571 |  |  |  | 10,965 | 12,043 | 1,571 |
| 5/7/2018 | FALSE | FALSE | FALSE | 3.11 | 8.62 | 5.84 | 53\% | 36\% | 68\% |  | 1.48 | 6.5 | 5.9 |  |  |  |  |  |  |  |  | 10,965 | 12,043 | 1,571 |  |  |  | 10,965 | 12,043 | 1,571 |
| 5/8/2018 | FALSE | FALSE | FALSE | 3.26 | 8.33 | 5.86 | 56\% | 39\% | 70\% |  | 1.42 | 6.5 | 5.9 |  |  |  |  |  |  |  |  | 10,965 | 12,043 | 1,571 |  |  |  | 10,965 | 12,043 | 1,571 |
| 5/9/2018 | FALSE | FALSE | FALSE | 3.22 | 8.80 | 5.97 | 54\% | 37\% | 68\% |  | 1.47 | 6.4 | 5.9 | 322.70 | 299.00 | 0.93 | 40.30 | 16,067 | 14,887 | 2,007 |  | 12,666 | 12,991 | 1,633 | 16,067 | 14,887 | 2,007 | 12,666 | 12,991 | 1,633 |
| 5/10/2018 | FALSE | FALSE | FALSE | 3.23 | 8.56 | 5.92 | 55\% | 38\% | 69\% |  | 1.45 | 6.3 | 5.9 | 264.70 | 284.00 | 1.07 | 39.00 | 13,069 | 14,022 | 1,926 |  | 12,767 | 13,249 | 1,669 | 13,069 | 14,022 | 1,926 | 12,767 | 13,249 | 1,669 |
| 5/11/2018 | FALSE | FALSE | FALSE | 3.19 | 8.24 | 5.84 | 55\% | 39\% | 71\% |  | 1.41 | 6.2 | 5.9 |  |  |  |  |  |  |  |  | 12,767 | 13,249 | 1,669 |  |  |  | 12,767 | 13,249 | 1,669 |
| 5/12/2018 | FALSE | FALSE | FALSE | 3.26 | 8.36 | 5.69 | 57\% | 39\% | 68\% |  | 1.47 | 6.2 | 5.9 |  |  |  |  |  |  |  |  | 12,767 | 13,249 | 1,669 |  |  |  | 12,767 | 13,249 | 1,669 |
| 5/13/2018 | FALSE | FALSE | FALSE | 3.16 | 8.30 | 5.66 | 56\% | 38\% | 68\% |  | 1.47 | 6.1 | 5.8 |  |  |  |  |  |  |  |  | 12,767 | 13,249 | 1,669 |  |  |  | 12,767 | 13,249 | 1,669 |
| 5/14/2018 | FALSE | FALSE | FALSE | 3.17 | 8.23 | 5.87 | 54\% | 39\% | 71\% |  | 1.40 | 6.1 | 5.8 |  |  |  |  |  |  |  |  | 12,767 | 13,249 | 1,669 |  |  |  | 12,767 | 13,249 | 1,669 |
| 5/15/2018 | FALSE | FALSE | FALSE | 3.22 | 8.53 | 5.93 | 54\% | 38\% | 70\% |  | 1.44 | 6.1 | 5.8 |  |  |  |  |  |  |  |  | 12,767 | 13,249 | 1,669 |  |  |  | 12,767 | 13,249 | 1,669 |
| 5/16/2018 | FALSE | FALSE | FALSE | 3.27 | 8.41 | 5.97 | 55\% | 39\% | 71\% |  | 1.41 | 6.1 | 5.9 | 300.60 | 303.00 | 1.01 | 42.30 | 14,967 | 15,086 | 2,106 | NH3 | 13,207 | 13,616 | 1,669 | 14,967 | 15,086 | 2,106 | 13,207 | 13,616 | 1,669 |
| 5/17/2018 | FALSE | FALSE | FALSE | 3.21 | 8.23 | 5.82 | 55\% | 39\% | 71\% |  | 1.41 | 6.0 | 5.8 | 277.10 | 298.00 | 1.08 | 38.80 | 13,450 | 14,465 | 1,883 |  | 13,247 | 13,758 | 1,693 | 13,450 | 14,465 | 1,883 | 13,247 | 13,758 | 1,693 |
| 5/18/2018 | FALSE | FALSE | FALSE | 3.25 | 8.46 | 5.94 | 55\% | 38\% | 70\% |  | 1.42 | 6.0 | 5.8 |  |  |  |  |  |  |  |  | 13,247 | 13,758 | 1,693 |  |  |  | 13,247 | 13,758 | 1,693 |
| 5/19/2018 | False | FALSE | FALSE | 3.28 | 8.18 | 5.75 | 57\% | 40\% | 70\% |  | 1.42 | 6.0 | 5.8 |  |  |  |  |  |  |  |  | 13,247 | 13,758 | 1,766 |  |  |  | 13,247 | 13,758 | 1,766 |
| 5/20/2018 | FALSE | TRUE | FALSE | 3.18 | 8.13 | 5.66 | 56\% | 39\% | 70\% |  | 1.44 | 5.9 | 5.8 |  |  |  |  |  |  |  |  | 13,247 | 13,758 | 1,766 |  |  |  | 13,247 | 13,758 | 1,766 |
| 5/21/2018 | FALSE | TRUE | FALSE | 3.20 | 8.20 | 5.61 | 57\% | 39\% | 68\% |  | 1.46 | 5.9 | 5.8 |  |  |  |  |  |  |  |  | 13,247 | 13,758 | 1,766 |  |  |  | 13,247 | 13,758 | 1,766 |
| 5/22/2018 | FALSE | TRUE | FALSE | 3.26 | 7.81 | 5.53 | 59\% | 42\% | 71\% |  | 1.41 | 5.9 | 5.8 |  |  |  |  |  |  |  |  | 13,247 | 13,758 | 1,766 |  |  |  | 13,247 | 13,758 | 1,766 |
| 5/23/2018 | FALSE | TRUE | FALSE | 3.19 | 7.87 | 5.54 | 58\% | 41\% | 70\% |  | 1.42 | 5.9 | 5.7 |  |  |  |  |  |  |  |  | 13,247 | 13,758 | 1,766 |  |  |  | 13,247 | 13,758 | 1,766 |
| 5/24/2018 | FALSE | TRUE | FALSE | 3.20 | 7.80 | 5.52 | 58\% | 41\% | 71\% |  | 1.41 | 5.9 | 5.7 | 400.00 | 317.00 | 0.79 | 45.50 | 18,415 | 14,594 | 2,095 | NH3 | 13,985 | 13,877 | 1,766 | 18,415 | 14,594 | 2,095 | 13,985 | 13,877 | 1,766 |
| 5/25/2018 | TRUE | TRUE | TRUE | 3.18 | 7.68 | 5.75 | 55\% | 41\% | 75\% |  | 1.34 | 5.8 | 5.7 | 323.30 | 441.00 | 1.36 | 34.70 | 15,504 | 21,148 | 1,664 | вод | 14,175 | 13,877 | 1,829 | 15,504 | 21,148 | 1,664 | 14,175 | 13,877 | 1,829 |
| 5/26/2018 | true | TRUE | TRUE | 3.22 | 7.82 | 5.35 | 60\% | 41\% | 68\% |  | 1.46 | 5.8 | 5.6 |  |  |  |  |  |  |  |  | 14,175 | 13,877 | 1,851 |  |  |  | 14,175 | 13,877 | 1,851 |
| 5/27/2018 | TRUE | TRUE | FALSE | 3.14 | 7.19 | 5.08 | 62\% | 44\% | 71\% |  | 1.42 | 5.8 | 5.5 |  |  |  |  |  |  |  |  | 14,175 | 13,877 | 1,873 |  |  |  | 14,175 | 13,877 | 1,873 |
| 5/28/2018 | TRUE | TRUE | FALSE | 3.20 | 7.29 | 5.26 | 61\% | 44\% | 72\% |  | 1.39 | 5.8 | 5.5 |  |  |  |  |  |  |  |  | 14,175 | 13,877 | 1,873 |  |  |  | 14,175 | 13,877 | 1,873 |
| 5/29/2018 | TRUE | TRUE | FALSE | 3.21 | 7.71 | 5.40 | 59\% | 42\% | 70\% |  | 1.43 | 5.7 | 5.4 |  |  |  |  |  |  |  |  | 14,175 | 13,877 | 1,873 |  |  |  | 14,175 | 13,877 | 1,873 |
| 5/30/2018 | TRUE | TRUE | FALSE | 3.27 | 7.84 | 5.51 | 59\% | 42\% | 70\% |  | 1.42 | 5.7 | 5.4 | 247.60 | 367.00 | 1.48 | 37.70 | 11,378 | 16,865 | 1,732 |  | 13,864 | 14,251 | 1,853 | 11,256 | 16,833 | 1,732 | 13,851 | 14,247 | 1,853 |
| 5/31/2018 | TRUE | TRUE | FALSE | 3.19 | 8.10 | 5.48 | 58\% | 39\% | 68\% |  | 1.48 | 5.7 | 5.4 | 261.00 | 344.00 | 1.32 | 37.10 | 11,929 | 15,722 | 1,696 |  | 13,671 | 14,414 | 1,833 | 11,929 | 15,722 | 1,696 | 13,659 | 14,411 | 1,833 |
| 6/1/2018 | TRUE | TRUE | FALSE | 3.20 | 7.68 | 5.39 | 59\% | 42\% | 70\% |  | 1.42 | 5.7 | 5.4 |  |  |  |  |  |  |  |  | 13,671 | 14,414 | 1,833 |  |  |  | 13,659 | 14,411 | 1,833 |
| 6/2/2018 | TRUE | TRUE | FALSE | 3.21 | 7.45 | 5.21 | 62\% | 43\% | 70\% |  | 1.43 | 5.7 | 5.3 |  |  |  |  |  |  |  |  | 14,029 | 14,746 | 1,820 |  |  |  | 14,015 | 14,742 | 1,820 |
| 6/3/2018 | TRUE | TRUE | FALSE | 3.16 | 7.11 | 5.15 | 61\% | 44\% | 72\% |  | 1.38 | 5.7 | 5.3 |  |  |  |  |  |  |  |  | 14,347 | 15,091 | 1,818 |  |  |  | 14,332 | 15,087 | 1,818 |
| 6/4/2018 | TRUE | TRUE | FALSE | 3.16 | 7.67 | 5.40 | 59\% | 41\% | 70\% |  | 1.42 | 5.6 | 5.4 |  |  |  |  |  |  |  |  | 14,347 | 15,091 | 1,818 |  |  |  | 14,332 | 15,087 | 1,818 |
| 6/5/2018 | TRUE | TRUE | FALSE | 3.22 | 7.55 | 5.33 | 60\% | 43\% | 71\% |  | 1.42 | 5.6 | 5.4 |  |  |  |  |  |  |  |  | 14,347 | 15,091 | 1,818 |  |  |  | 14,332 | 15,087 | 1,818 |
| 6/6/2018 | TRUE | TRUE | FALSE | 3.13 | 7.39 | 5.35 | 59\% | 42\% | 72\% |  | 1.38 | 5.6 | 5.4 | 271.30 | 273.00 | 1.01 | 40.90 | 12,105 | 12,181 | 1,825 |  | 14,098 | 14,728 | 1,819 | 12,105 | 12,181 | 1,825 | 14,085 | 14,724 | 1,819 |
| 6/7/2018 | true | TRUE | FALSE | 3.15 | 7.31 | 5.37 | 59\% | 43\% | 73\% |  | 1.36 | 5.6 | 5.3 | 264.50 | 264.00 | 1.00 | 38.10 | 11,846 | 11,823 | 1,706 |  | 13,873 | 14,405 | 1,805 | 11,846 | 11,823 | 1,706 | 13,861 | 14,401 | 1,805 |
| 6/8/2018 | TRUE | TRUE | FALSE | 3.15 | 6.85 | 5.24 | 60\% | 46\% | 76\% |  | 1.31 | 5.6 | 5.3 |  |  |  |  |  |  |  |  | 13,873 | 14,405 | 1,805 |  |  |  | 13,861 | 14,401 | 1,805 |
| 6/9/2018 | true | TRUE | FALSE | 3.12 | 7.23 | 5.19 | 60\% | 43\% | 72\% |  | 1.39 | 5.5 | 5.3 |  |  |  |  |  |  |  |  | 13,629 | 14,345 | 1,776 |  |  |  | 13,616 | 14,341 | 1,776 |
| 6/10/2018 | true | TRUE | FALSE | 3.09 | 7.09 | 5.09 | 61\% | 44\% | 72\% |  | 1.39 | 5.5 | 5.3 |  |  |  |  |  |  |  |  | 13,699 | 14,391 | 1,751 |  |  |  | 13,684 | 14,386 | 1,751 |
| 6/11/2018 | TRUE | TRUE | FALSE | 3.09 | 7.16 | 5.23 | 59\% | 43\% | 73\% |  | 1.37 | 5.5 | 5.3 |  |  |  |  |  |  |  |  | 13,699 | 14,391 | 1,751 |  |  |  | 13,684 | 14,386 | 1,751 |
| 6/12/2018 | TRUE | TRUE | FALSE | 3.15 | 7.14 | 5.21 | 60\% | 44\% | 73\% |  | 1.37 | 5.5 | 5.3 |  |  |  |  |  |  |  |  | 13,699 | 14,391 | 1,751 |  |  |  | 13,684 | 14,386 | 1,751 |
| 6/13/2018 | TRUE | TRUE | FALSE | 3.25 | 7.31 | 5.25 | 62\% | 44\% | 72\% |  | 1.39 | 5.5 | 5.2 | 288.40 | 257.00 | 0.89 | 39.10 | 12,628 | 11,253 | 1,712 |  | 13,580 | 13,999 | 1,746 | 12,628 | 11,253 | 1,712 | 13,566 | 13,995 | 1,746 |
| 6/14/2018 | true | TRUE | FALSE | 3.11 | 7.35 | 5.27 | 59\% | 42\% | 72\% |  | 1.39 | 5.4 | 5.2 | 278.90 | 266.00 | 0.95 |  | 12,258 | 11,691 |  |  | 13,448 | 13,742 | 1,746 | 12,152 | 11,661 |  | 13,425 | 13,735 | 1,746 |
| 6/15/2018 | true | TRUE | FALSE | 3.15 | 7.06 | 5.22 | 60\% | 45\% | 74\% |  | 1.35 | 5.4 | 5.2 |  |  |  |  |  |  |  |  | 13,448 | 13,742 | 1,746 |  |  |  | 13,425 | 13,735 | 1,746 |
| 6/16/2018 | TRUE | TRUE | FALSE | 3.19 | 6.87 | 5.06 | 63\% | 46\% | 74\% |  | 1.36 | 5.4 | 5.2 |  |  |  |  |  |  |  |  | 13,279 | 13,574 | 1,746 |  |  |  | 13,254 | 13,566 | 1,746 |
| 6/17/2018 | TRUE | TRUE | FALSE | 3.12 | 6.80 | 5.00 | 62\% | 46\% | 74\% |  | 1.36 | 5.4 | 5.2 |  |  |  |  |  |  |  |  | 13,258 | 13,447 | 1,723 |  |  |  | 13,229 | 13,438 | 1,723 |
| 6/18/2018 | TRUE | TRUE | FALSE | 3.14 | 6.85 | 5.25 | 60\% | 46\% | 77\% |  | 1.30 | 5.3 | 5.2 |  |  |  |  |  |  |  |  | 13,258 | 13,447 | 1,723 |  |  |  | 13,229 | 13,438 | 1,723 |
| 6/19/2018 | TRUE | TRUE | FALSE | 3.28 | 7.20 | 5.28 | 62\% | 46\% | 73\% |  | 1.36 | 5.3 | 5.2 |  |  |  |  |  |  |  |  | 13,258 | 13,447 | 1,723 |  |  |  | 13,229 | 13,438 | 1,723 |
| 6/20/2018 | TRUE | TRUE | FALSE | 3.16 | 7.25 | 5.25 | 60\% | 44\% | 72\% |  | 1.38 | 5.3 | 5.2 | 284.10 | 298.00 | 1.05 | 38.80 | 12,439 | 13,048 | 1,699 |  | 13,167 | 13,397 | 1,719 | 12,439 | 13,048 | 1,699 | 13,141 | 13,389 | 1,719 |
| 6/21/2018 | TRUE | TRUE | FALSE | 3.20 | 7.17 | 5.28 | 61\% | 45\% | 74\% |  | 1.36 | 5.3 | 5.2 | 335.10 | 283.00 | 0.84 |  | 14,756 | 12,462 |  |  | 13,326 | 13,293 | 1,719 | 14,756 | 12,462 |  | 13,303 | 13,286 | 1,719 |


| Date | $\begin{aligned} & \text { Butte } \\ & \text { Break? } \end{aligned}$ | $\underset{\text { Break? }}{\text { csu }}$ | Precip? | $\begin{gathered} \mathrm{Min}_{\substack{\text { Influent } \\ \text { Flow, mgd }}} \end{gathered}$ | $\begin{gathered} \text { Max } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | $\begin{aligned} & \text { Avg } \\ & \text { Influent } \\ & \text { Flow, mgd } \end{aligned}$ | $\underset{\text { Avg }}{\operatorname{Min} \% \text { of }}$ | Min \% of | $\begin{aligned} & \text { Avg } \% \text { of } \\ & \text { Max } \end{aligned}$ | $\begin{aligned} & \text { Flow } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | $\begin{aligned} & \text { Diurnal } \\ & \text { Peak } \\ & \text { Factor } \\ & \text { (DPF) } \end{aligned}$ | $\begin{gathered} \text { 30-d Avg } \\ \text { of Avg } \\ \text { Flow, mgd } \end{gathered}$ | 7-d Avg of Avg Flow, mgd | Influent TSS Conc., mg/L | Influent BOD Conc. mg/L | Bod/Tss | Influent NH3-N Conc., mg/L | Avg linf TSS Load, ppd | $\begin{gathered} \text { Avg } \operatorname{lnf} \\ \text { Bod } \operatorname{logd}, \\ \text { ppd } \end{gathered}$ | Avg Inf NH3 Load, ppd | $\begin{aligned} & \text { Load } \\ & \text { Outlier } \\ & \text { type } \end{aligned}$ | 30-d Avg of TSS Load, ppd | 30-d Avg of BOD Load, ppd | 30-d Avg of NH3-N Load, ppd | $\xrightarrow{\text { non-SN }}$ TSS Load, ppd | $\begin{gathered} \text { non-SN } \\ \text { BOD Load, } \\ \text { ppd } \end{gathered}$ | non-SN ppd | 30-d Avg of non-SN TSS Load, ppd | 30-d Avg of non-SN BOD Load, ppd | 30-d Avg of non-SN NH3-N Load, ppd |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 6/22/2018 | TRUE | TRUE | FALSE | 3.19 | 7.01 | 5.19 | 61\% | 46\% | 74\% |  | 1.35 | 5.3 | 5.2 |  |  |  |  |  |  |  |  | 13,326 | 13,293 | 1,719 |  |  |  | 13,303 | 13,286 | 1,719 |
| 6/23/2018 | TRUE | TRUE | FALSE | 3.20 | 6.99 | 5.02 | 64\% | 46\% | 72\% |  | 1.39 | 5.3 | 5.2 |  |  |  |  |  |  |  |  | 13,326 | 13,293 | 1,719 |  |  |  | 13,303 | 13,286 | 1,719 |
| 6/24/2018 | TRUE | TRUE | FALSE | 3.14 | 6.82 | 4.96 | 63\% | 46\% | 73\% |  | 1.38 | 5.3 | 5.2 |  |  |  |  |  |  |  |  | 12,760 | 13,131 | 1,719 |  |  |  | 12,735 | 13,123 | 1,719 |
| 6/25/2018 | TRUE | TRUE | FALSE | 3.19 | 6.88 | 5.26 | 61\% | 46\% | 76\% |  | 1.31 | 5.2 | 5.2 |  |  |  |  |  |  |  |  | 12,417 | 13,131 | 1,728 |  |  |  | 12,389 | 13,123 | 1,728 |
| 6/26/2018 | TRUE | TRUE | FALSE | 3.20 | 7.37 | 5.30 | 60\% | 43\% | 72\% |  | 1.39 | 5.2 | 5.2 |  |  |  |  |  |  |  |  | 12,417 | 13,131 | 1,728 |  |  |  | 12,389 | 13,123 | 1,728 |
| 6/27/2018 | TRUE | TRUE | FALSE | 3.17 | 7.31 | 5.27 | 60\% | 43\% | 72\% |  | 1.39 | 5.2 | 5.2 | 377.00 | 246.00 | 0.65 |  | 16,570 | 10,812 |  |  | 12,879 | 12,873 | 1,728 | 16,570 | 10,812 |  | 12,853 | 12,866 | 1,728 |
| 6/28/2018 | TRUE | tRUE | FALSE | 3.22 | 7.15 | 5.28 | 61\% | 45\% | 74\% |  | 1.35 | 5.2 | 5.2 | 251.10 | 234.00 | 0.93 |  | 11,057 | 10,304 |  |  | 12,697 | 12,616 | 1,728 | 11,057 | 10,304 |  | 12,674 | 12,610 | 1,728 |
| 6/29/2018 | true | TRUE | FALSE | 3.20 | 7.14 | 5.23 | 61\% | 45\% | 73\% |  | 1.37 | 5.2 | 5.2 |  |  |  |  |  |  |  |  | 12,697 | 12,616 | 1,728 |  |  |  | 12,674 | 12,610 | 1,728 |
| 6/30/2018 | TRUE | TRUE | FALSE | 3.20 | 7.10 | 5.05 | 63\% | 45\% | 71\% |  | 1.41 | 5.2 | 5.2 |  |  |  |  |  |  |  |  | 12,843 | 12,144 | 1,728 |  |  |  | 12,831 | 12,141 | 1,728 |
| 7/1/2018 | TRUE | TRUE | FALSE | 3.15 | 6.81 | 4.88 | 65\% | 46\% | 72\% |  | 1.40 | 5.2 | 5.2 |  |  |  |  |  |  |  |  | 12,957 | 11,697 | 1,736 |  |  |  | 12,944 | 11,693 | 1,736 |
| 7/2/2018 | TRUE | TRUE | FALSE | 3.13 | 6.84 | 5.17 | 61\% | 46\% | 76\% |  | 1.32 | 5.2 | 5.2 |  |  |  |  |  |  |  |  | 12,957 | 11,697 | 1,736 |  |  |  | 12,944 | 11,693 | 1,736 |
| 7/3/2018 | true | TRUE | FALSE | 3.22 | 7.13 | 5.14 | 63\% | 45\% | 72\% |  | 1.39 | 5.2 | 5.2 |  |  |  |  |  |  |  |  | 12,957 | 11,697 | 1,736 |  |  |  | 12,944 | 11,693 | 1,736 |
| 7/4/2018 | true | TRUE | FALSE | 3.14 | 6.89 | 4.80 | 65\% | 46\% | 70\% |  | 1.44 | 5.2 | 5.1 |  |  |  |  |  |  |  |  | 12,957 | 11,697 <br> 11254 | 1,736 |  |  |  | 12,944 | 11,693 | 1,736 |
| 7/5/2018 | TRUE | TRUE | FALSE | 3.12 | 6.65 | 4.87 | 64\% | 47\% | 73\% |  | 1.37 | 5.2 | 5.1 | 207.70 | 212.00 | 1.02 |  | 8,436 | 8,611 |  |  | 12,455 | 11,354 | 1,736 | 8,436 | 8,611 |  | 12,443 | 11,351 | 1,736 |
| 7/6/2018 | TRUE | TRUE | FALSE | 3.10 | 6.94 | 5.12 | 61\% | 45\% | 74\% |  | 1.36 | 5.2 | 5.0 |  |  |  |  |  |  |  |  | 12,455 | 11,354 | 1,736 |  |  |  | 12,443 | 11,351 | 1,736 |
| 7/7/2018 | TRUE | TRUE | FALSE | 3.21 | 7.03 | 5.00 | 64\% | 46\% | 71\% |  | 1.41 | 5.2 | 5.0 |  |  |  |  |  |  |  |  | 12,499 | 11,251 | 1,706 |  |  |  | 12,486 | 11,247 | 1,706 |
| 7/8/2018 | true | True | FALSE | 3.14 | 6.80 | 4.98 | 63\% | 46\% | 73\% |  | 1.37 | 5.1 | 5.0 |  |  |  |  |  |  |  |  | 12,592 | 11,169 | 1,705 |  |  |  | 12,577 | 11,164 | 1,705 |
| 7/9/2018 | TRUE | TRUE | FALSE | 3.15 | 7.07 | 5.21 | 60\% | 45\% | 74\% |  | 1.36 | 5.1 | 5.0 |  |  |  |  |  |  |  |  | 12,592 | 11,169 | 1,705 |  |  |  | 12,577 | 11,164 | 1,705 |
| 7/10/2018 | True | TRUE | FALSE | 3.25 | 7.25 | 5.25 | 62\% | 45\% | 72\% |  | 1.38 | 5.1 | 5.0 |  |  |  |  |  |  |  |  | 12,592 | 11,169 | 1,705 |  |  |  | 12,577 | 11,164 | 1,705 |
| 7/11/2018 | true | TrUE | FALSE | 3.17 | 7.17 | 5.21 | 61\% | 44\% | 73\% |  | 1.38 | 5.1 | 5.1 | 268.10 | 175.00 | 0.65 |  | 11,649 | 7,604 |  |  | 12,474 | 10,723 | 1,705 | 11,649 | 7,604 |  | 12,461 | 10,719 | 1,705 |
| 7/12/2018 | TRUE | TRUE | FALSE | 3.20 | 7.33 | 5.24 | 61\% | 44\% | 71\% |  | 1.40 | 5.1 | 5.1 | 277.00 | 190.00 | 0.69 |  | 12,105 | 8,303 |  |  | 12,433 | 10,454 | 1,705 | 12,105 | 8,303 |  | 12,421 | 10,451 | 1,705 |
| 7/13/2018 | true | TRUE | FALSE | 3.17 | 6.94 | 5.20 | 61\% | 46\% | 75\% |  | 1.33 | 5.1 | 5.2 |  |  |  |  |  |  |  |  | 12,433 | 10,454 | 1,705 |  |  |  | 12,421 | 10,451 | 1,705 |
| 7/14/2018 | true | TRUE | FALSE | 3.25 | 7.06 | 5.01 | 65\% | 46\% | 71\% |  | 1.41 | 5.1 | 5.1 |  |  |  |  |  |  |  |  | 12,409 | 10,354 | 1,699 |  |  |  | 12,396 | 10,351 | 1,699 |
| 7/15/2018 | true | TRUE | FALSE | 3.13 | 6.95 | 4.99 | 63\% | 45\% | 72\% |  | 1.39 | 5.1 | 5.1 |  |  |  |  |  |  |  |  | 12,430 | 10,163 | 1,699 |  |  |  | 12,430 | 10,163 | 1,699 |
| 7/16/2018 | true | True | FALSE | 3.16 | 7.28 | 5.20 | 61\% | 43\% | 71\% |  | 1.40 | 5.1 | 5.2 |  |  |  |  |  |  |  |  | 12,430 | 10,163 | 1,699 |  |  |  | 12,430 | 10,163 | 1,699 |
| 7/17/2018 | TRUE | TRUE | FALSE | 3.22 | 7.14 | 5.26 | 61\% | 45\% | 74\% |  | 1.36 | 5.1 | 5.2 |  |  |  |  |  |  |  |  | 12,430 | 10,163 | 1,699 |  |  |  | 12,430 | 10,163 | 1,699 |
| 7/18/2018 | TRUE | TRUE | FALSE | 3.15 | 7.10 | 5.29 | 60\% | 44\% | 75\% |  | 1.34 | 5.143226 | 5.18 | 348.00 | 102.00 | 0.29 |  | 15,353 | 4,500 |  |  | 12,796 | 9,456 | 1,699 | 15,353 | 4,500 |  | 12,796 | 9,456 | 1,699 |
| 7/19/2018 | true | TRUE | FALSE | 3.21 | 7.30 | 5.29 | 61\% | 44\% | 72\% |  | 1.38 | 5.144516 | 5.19 | 290.00 | 200.00 | 0.69 |  | 12,794 | 8,824 |  |  | 12,796 | 9,385 | 1,699 | 12,794 | 8,824 |  | 12,796 | 9,385 | 1,699 |
| 7/20/2018 | TRUE | TRUE | FALSE | 3.22 | 7.27 | 5.24 | 61\% | 44\% | 72\% |  | 1.39 | 5.143226 | 5.19 |  |  |  |  |  |  |  |  | 12,796 | 9,385 | 1,699 |  |  |  | 12,796 | 9,385 | 1,699 |
| 7/21/2018 | true | TRUE | FALSE | 3.23 | 7.29 | 5.07 | 64\% | 44\% | 70\% |  | 1.44 | 5.137419 | 5.17 |  |  |  |  |  |  |  |  | 12,840 | 8,928 |  |  |  |  | 12,840 | 8,928 |  |
| 7/22/2018 | TRUE | TRUE | FALSE | 3.13 | 7.11 | 5.04 | 62\% | 44\% | 71\% |  | 1.41 | 5.129677 | 5.17 |  |  |  |  |  |  |  |  | 12,566 | 8,423 |  |  |  |  | 12,566 | 8,423 |  |
| 7/23/2018 | TRUE | TRUE | FALSE | 3.18 | 7.35 | 5.28 | 60\% | 43\% | 72\% |  | 1.39 | 5.132581 | 5.21 |  |  |  |  |  |  |  |  | 12,566 | 8,423 |  |  |  |  | 12,566 | 8,423 |  |
| 7/24/2018 | TRUE | TRUE | FALSE | 3.26 | 7.40 | 5.41 | 60\% | 44\% | 73\% |  | 1.37 | 5.145161 | 5.24 |  |  |  |  |  |  |  |  | 12,566 | 8,423 |  |  |  |  | 12,566 | 8,423 |  |
| 7/25/2018 | true | TRUE | FALSE | 3.45 | 7.17 | 5.41 | 64\% | 48\% | 75\% |  | 1.33 | 5.159677 | 5.25 | 243.80 | 127.00 | 0.52 |  | 11,000 | 5,730 |  |  | 12,371 | 8,086 |  | 11,000 | 5,730 |  | 12,371 | 8,086 |  |
| 7/26/2018 | TRUE | TRUE | FALSE | 3.38 | 7.12 | 5.33 | 63\% | 47\% | 75\% |  | 1.34 | 5.161935 | 5.26 | 260.00 |  |  |  | 11,558 |  |  |  | 12,280 | 8,086 |  | 11,558 |  |  | 12,280 | 8,086 |  |
| 7/27/2018 | true | TRUE | FALSE | 3.19 | 7.34 | 5.31 | 60\% | 43\% | 72\% |  | 1.38 | 5.162258 | 5.26 |  |  |  |  |  |  |  |  | 12,280 | 8,086 |  |  |  |  | 12,280 | 8,886 |  |
| 7/28/2018 | TRUE | TRUE | FALLE | 3.25 | 7.14 | 5.19 | 63\% | 46\% | 73\% |  | 1.38 | 5.159677 | 5.26 |  |  |  |  |  |  |  |  | 11,744 | 7,697 |  |  |  |  | 11,744 | 7,697 |  |
| 7/29/2018 | TRUE | TRUE | FALSE | 3.17 | 7.36 | 5.17 | 61\% | 43\% | 70\% |  | 1.42 | 5.156129 | 5.27 |  |  |  |  |  |  |  |  | 11,842 | 7,262 |  |  |  |  | 11,842 | 7,262 |  |
| 7/30/2018 | TRUE | TRUE | FALSE | 3.19 | 7.26 | 5.45 | 59\% | 44\% | 75\% |  | 1.33 | 5.163226 | 5.32 |  |  |  |  |  |  |  |  | 11,842 | 7,262 |  |  |  |  | 11,842 | 7,262 |  |
| 7/31/2018 | TRUE | TRUE | FALSE | 3.20 | 7.49 | 5.43 | 59\% | 43\% | 72\% |  | 1.38 | 5.175484 | 5.34 |  |  |  |  |  |  |  |  | 11,842 | 7,262 |  |  |  |  | 11,842 | 7,262 |  |
| 8/1/2018 | True | TrUE | FALSE | 3.24 | 7.34 | 5.40 | 60\% | 44\% | 74\% |  | 1.36 | 5.192258 | 5.34 |  |  |  |  |  |  |  |  | 11,842 | 7,262 |  |  |  |  | 11,842 | 7,262 |  |
| 8/2/2018 | TRUE | TRUE | FALSE | 3.24 3.21 | 7.69 | 5.33 | ${ }^{61 \%}$ | 42\% | 69\% |  | 1.44 | 5.197419 5 | ${ }_{5}^{5.33}$ |  |  |  |  |  |  |  |  | 11,842 | 7,262 |  |  |  |  | 11,842 | 7,262 |  |
| 8/3/2018 | True | TrUE | FALSE | 3.21 | 7.07 | 5.33 | 60\% | 45\% | 75\% |  | 1.33 | 5.203548 | 5.33 | 259.50 | 125.00 | 0.48 |  | 11,535 | 5,557 |  |  | 11,804 | 7,018 |  | 11,535 | 5,557 |  | 11,804 | 7,018 |  |
| 8/4/2018 | TRUE | TRUE | FALSE | 3.25 317 | 7.24 | 5.15 | ${ }^{63 \%}$ | 45\% | 71\% |  | 1.41 | 5.214839 | 5.31 5 5 |  |  |  |  |  |  |  |  | 11,804 | 7,018 |  |  |  |  | 11,804 | 7,018 |  |
| 8/5/2018 | true | True | FALSE | 3.17 | 7.40 | 5.17 | 61\% | 43\% | 70\% |  | 1.43 | 5.224516 | 5.30 |  |  |  |  |  |  |  |  | 12,285 | 6,753 |  |  |  |  | 12,285 | 6,753 |  |
| 8/6/2018 | TRUE | TRUE | FALSE | 3.16 318 | 6.98 | 5.35 5 | 59\% | 45\% | 77\% |  | 1.30 | 5.231935 | ${ }_{5}^{5.33}$ |  |  |  |  |  |  |  |  | 12,285 | 6,753 |  |  |  |  | 12,285 | 6,753 |  |
| 8/7/2018 | true | True | FALSE | 3.18 | 7.42 | 5.32 | 60\% | 43\% | 72\% |  | 1.39 | 5.242258 | 5.31 |  |  |  |  |  |  |  |  | 12,285 | 6,753 |  |  |  |  | 12,285 12072 | 6,753 |  |
| 8/8/2018 | TRUE | ${ }_{\text {TRUE }}^{\text {TRUE }}$ | ${ }^{\text {FALSE }}$ | 3.28 3 | 7.49 | 5.50 | 60\% | 44\% | 73\% |  | 1.36 | 5.259032 | 5.32 | 230.70 | 174.00 | 0.75 |  | 10,582 | 7,981 |  |  | 12,072 | 6,928 |  | 10,582 | 7,981 |  | 12,072 | 6,928 |  |
| 8/9/2018 | TRUE | TRUE | FALSE | 3.24 | 7.42 | 5.42 | 60\% | 44\% | 73\% |  | 1.37 | 5.265806 525161 | ${ }_{5}^{5.32}$ | 243.20 | 121.00 | 0.50 |  | 10,993 | 5,470 |  |  | 11,952 | 6,746 6 6,746 |  | 10,993 | 5,470 |  | 11,952 11,952 | 6,746 6,746 |  |
| 8/10/2018 | TRUE TRUE | ${ }_{\text {TRUE }}^{\text {TRUE }}$ | ${ }_{\text {FALSE }}$ | 3.21 3.20 | 7.40 7.788 | 5.23 518 | ${ }^{61 \%}$ | 43\% | 71\% |  | 1.41 | ${ }_{5}^{5.265161}$ | 5.31 |  |  |  |  |  |  |  |  | 11,952 | 6,746 |  |  |  |  | 11,952 | 6,746 |  |
| 8/11/2018 | True | True | FALSE | 3.20 | 7.38 | 5.18 | 62\% | 43\% | 70\% |  | 1.42 | 5.264194 | 5.29 |  |  |  |  |  |  |  |  | 11,990 | 6,624 |  |  |  |  | 11,990 | 6,624 |  |
| 8/12/2018 | TRUE | TRUE | FALSE | 3.19 | 7.23 | 5.24 | 61\% | 44\% | 72\% |  | 1.38 | 5.264194 | 5.30 |  |  |  |  |  |  |  |  | 11,974 | 6,344 |  |  |  |  | 11,974 | 6,344 |  |
| 8/13/2018 | TRUE | TRUE | FALSE | 3.16 | 7.46 | 5.33 | 59\% | 42\% | 71\% |  | 1.40 | 5.268387 | 5.32 |  |  |  |  |  |  |  |  | 11,974 | 6,344 |  |  |  |  | 11,974 | 6,344 |  |
| $\begin{aligned} & 8 / 14 / 2018 \\ & 8 / 15 / 2018 \end{aligned}$ | TRUE TRUE | TRUE TRUE | FALLE FALSE | 3.26 3.18 | 7.47 7.83 | 5.46 5.61 | $\begin{aligned} & \text { 60\% } \\ & 57 \% \end{aligned}$ | 44\% | $\begin{aligned} & 73 \% \\ & 72 \% \\ & \hline 7 \end{aligned}$ |  | $\begin{aligned} & 1.37 \\ & 1.40 \end{aligned}$ | $\begin{aligned} & 5.282903 \\ & 5.302903 \end{aligned}$ | $\begin{aligned} & 5.34 \\ & 5.37 \end{aligned}$ |  |  | 0.94 |  |  | 11,135 |  |  | 11,974 11,950 | 6,344 7,028 |  |  | 11,135 |  | $\begin{aligned} & 11,974 \\ & 11,950 \end{aligned}$ | 6,344 7,028 |  |
| 8/16/2018 | TRUE | TRUE | FALSE | 3.18 3.33 | 8.25 | 5.63 | 59\% | 40\% | 68\% |  | 1.47 | 5.316774 | 5.39 | 282.50 | 187.00 | 0.66 |  | 13,265 | 8,780 |  |  | 12,096 | 7,247 |  | 13,265 | 8,780 |  | 12,096 | 7,247 |  |
| 8/17/2018 | TRUE | TRUE | FALSE | 3.20 | 7.67 | 5.40 | 59\% | 42\% | 70\% |  | 1.42 | 5.32129 | 5.39 |  |  |  |  |  |  |  |  | 12,096 | 7,247 |  |  |  |  | 12,096 | 7,247 |  |
| 8/18/2018 | TRUE | TRUE | FALSE | 3.21 | 7.81 | 5.43 | 59\% | 41\% | 70\% |  | 1.44 | 5.325806 | 5.41 |  |  |  |  |  |  |  |  | 11,689 | 7,640 |  |  |  |  | 11,689 | 7,640 |  |
| 8/19/2018 | TRUE | TRUE | FALSE | 3.21 | 8.02 | 5.59 | 57\% | 40\% | 70\% |  | 1.43 | 5.335484 | 5.46 |  |  |  |  |  |  |  |  | 11,531 | 7,442 |  |  |  |  | 11,531 | 7,442 |  |
| 8/20/2018 | TRUE | TRUE | FALSE | 3.16 | 8.00 | 5.59 | 57\% | 40\% | 70\% |  | 1.43 | 5.346774 | 5.51 |  |  |  |  |  |  |  |  | 11,531 | 7,442 |  |  |  |  | 11,531 | 7,442 |  |
| 8/21/2018 | FALSE | TRUE | FALSE | 3.26 | 8.31 | 5.67 | 57\% | 39\% | 68\% |  | 1.47 | 5.366129 | 5.55 |  |  |  |  |  |  |  |  | 11,531 | 7,442 |  |  |  |  | ${ }^{11,531}$ | 7,442 |  |
| 8/22/2018 | FALSE | TRUE | FALSE | 3.32 | 8.26 | 5.78 | 57\% | 40\% | 70\% |  | 1.43 | 5.39 | 5.59 | 251.90 | 163.00 | 0.65 |  | 12,143 | 7,857 |  |  | 11,608 | 7,502 |  | 12,143 | 7,857 |  | 11,608 | 7,502 |  |


| Date | $\begin{aligned} & \text { Butte } \\ & \text { Break? } \end{aligned}$ | $\underset{\text { Break? }}{\text { csu }}$ | Precip? |  | $\begin{gathered} \text { Max } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | $\begin{gathered} \text { Avg } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | $\underset{\text { Min \% of }}{\substack{\text { Avg }}}$ | Min \% of Max | Avg \% of <br> Max | $\begin{aligned} & \text { Flow } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | Diurnal <br> Peak <br> Factor <br> (DPF) | $\begin{aligned} & \text { 30-d Avg } \\ & \text { of Avg } \\ & \text { Flow, mgd } \end{aligned}$ | 7-d Avg of Avg Flow, mgd | Influent TSS Conc., mg/L | Influent BOD Conc. mg/L | Bod/TSS <br> Ratio | Influent NH3-N Conc., mg/L | Avg Inf TsS Load, ppd | $\begin{gathered} \text { Avg } \operatorname{lnf} \\ \text { BOD Load, } \\ \text { ppd } \end{gathered}$ | Avg lnf NH3 Load, ppd | $\begin{aligned} & \text { Load } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | 30-d Avg of TSS Load, ppd | 30-d Avg of BOD Load, ppd | 30-d Avg of NH3-N Load, ppd | $\begin{aligned} & \text { non-SN } \\ & \text { TSS Load, } \\ & \text { ppd } \end{aligned}$ | $\begin{gathered} \text { non-SN } \\ \text { BoD Load, } \\ \text { ppd } \end{gathered}$ | non-SN ppd | $\begin{gathered} \text { 30-d Avg } \\ \text { of non-SN } \\ \text { TSS Load, } \\ \text { ppd } \end{gathered}$ | $\begin{gathered} \text { 30-d Avg } \\ \text { of non-SN } \\ \text { BOD Load, } \\ \text { ppd } \end{gathered}$ | 30-d Avg of non-SN NH3-N Load, ppc |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 8/23/2018 | FALSE | TRUE | FALSE | 3.26 | 8.63 | 5.87 | 56\% | 38\% | 68\% |  | 1.47 | 5.409032 | 5.62 | 247.20 | 193.00 | 0.78 |  | 12,102 | 9,448 |  |  | 11,663 | 7,745 |  | 12,102 | 9,448 |  | 11,663 | 7,745 |  |
| 8/24/2018 | FALSE | TrUE | FALSE | 3.23 | 8.27 | 5.80 | 56\% | 39\% | 70\% |  | 1.43 | 5.421613 | 5.64 |  |  |  |  |  |  |  |  | 11,663 | 7,745 |  |  |  |  | 11,663 | 7,745 |  |
| 8/25/2018 | FALSE | true | false | 3.25 | 8.50 | 5.73 | 57\% | 38\% | 67\% |  | 1.48 | 5.431935 | 5.68 |  |  |  |  |  |  |  |  | 11,745 | 8,033 |  |  |  |  | 11,745 | 8,033 |  |
| 8/26/2018 | FALSE | true | FALSE | 3.25 | 8.88 | 5.95 | 55\% | 37\% | 67\% |  | 1.49 | 5.451935 | 5.75 |  |  |  |  |  |  |  |  | 11,772 | 8 8,033 |  |  |  |  | 11,772 | 8,033 |  |
| 8/27/2018 | FALSE | true | FALSE | 3.31 | 8.87 | 6.03 | 55\% | 37\% | 68\% |  | 1.47 | 5.475161 | 5.80 |  |  |  |  |  |  |  |  | 11,772 | 8,033 |  |  |  |  | 11,772 | 8,033 |  |
| 8/28/2018 | FALSE | FALSE | FALSE | 3.23 | 8.70 | 5.95 | 54\% | 37\% | 68\% |  | 1.46 | 5.499677 | 5.85 |  |  |  |  |  |  |  |  | 11,772 | 8,033 |  |  |  |  | 11,772 | 8,033 |  |
| 8/29/2018 | FALSE | FALSE | FALSE | 3.23 | 8.98 | 5.93 | 54\% | 36\% | 66\% |  | 1.51 | 5.524194 | 5.88 | 250.40 | 173.00 | 0.69 |  | 12,384 | 8,556 |  |  | 11,849 | 8,098 |  | 12,384 | 8,556 |  | 11,849 | 8,998 |  |
| 8/30/2018 | FALSE | FALSE | FALSE | 3.25 | 8.94 | 5.95 | 55\% | 36\% | 67\% |  | 1.50 | 5.540323 | 5.90 |  |  |  |  |  |  |  |  | 11,849 | 8,098 |  |  |  |  | 11,849 | 8,098 |  |
| 8/31/2018 | FALSE | FALSE | false | 3.26 | 8.68 | 5.85 | 56\% | 38\% | 67\% |  | 1.48 | 5.553871 | 5.90 |  |  |  |  |  |  |  |  | 11,849 | 8,098 |  |  |  |  | 11,849 | 8,998 |  |
| 9/1/2018 | FALSE | FALSE | FALISE | 3.27 | 8.22 | 5.62 | 58\% | 40\% | 68\% |  | 1.46 | 5.560968 | 5.88 |  |  |  |  |  |  |  |  | 11,849 | 8,098 |  |  |  |  | 11,849 | 8,098 |  |
| 9/2/2018 | False | FALSE | FALSE | 3.22 | 8.20 | 5.51 | 58\% | 39\% | 67\% |  | 1.49 | 5.566774 | 5.85 |  |  |  |  |  |  |  |  | 11,849 | 8,098 |  |  |  |  | 11,849 | 8,998 |  |
| 9/3/2018 | FALSE | False | false | 3.25 | 8.67 | 5.81 | 56\% | 37\% | 67\% |  | 1.49 | 5.582258 | 5.83 |  |  |  |  |  |  |  |  | 11,893 | 8,461 |  |  |  |  | 11,893 | 8,461 |  |
| 9/4/2018 | FALSE | FALSE | false | 3.24 | 8.75 | 5.88 | 55\% | 37\% | 67\% |  | 1.49 | 5.605806 | 5.81 |  |  |  |  |  |  |  |  | 11,893 | 8,461 |  |  |  |  | 11,893 | 8,461 |  |
| 9/5/2018 | FALSE | False | false | 3.33 | 8.81 | 5.88 | 57\% | 38\% | 67\% |  | 1.50 | 5.62871 | 5.80 | 244.80 | 140.00 | 0.57 |  | 12,005 | 6,865 |  |  | 11,907 | 8,262 |  | 12,005 | 6,865 |  | 11,907 | 8,262 |  |
| 9/6/2018 | FALSE | FALSE | false | 3.37 | 8.63 | 5.97 | 56\% | 39\% | 69\% |  | 1.45 | 5.64871 | 5.81 | 231.40 | 173.00 | 0.75 |  | 11,521 | 8,614 |  |  | 11,865 | 8,301 |  | 11,521 | 8,614 |  | 11,865 | 8,301 |  |
| 9/7/2018 | FALSE | FALSE | false | 3.27 | 8.66 | 5.84 | 56\% | 38\% | 67\% |  | 1.48 | 5.665484 | 5.80 |  |  |  |  |  |  |  |  | 11,865 | 8,301 |  |  |  |  | 11,865 | 8,301 |  |
| 9/8/2018 | FALSE | FALSE | FALSE | 3.33 | 8.33 | 5.80 | 57\% | 40\% | 70\% |  | 1.44 | 5.675161 | 5.79 |  |  |  |  |  |  |  |  | 12,025 | 8,341 |  |  |  |  | 12,025 | 8,341 |  |
| 9/9/2018 | FALSE | FALSE | FALSE | 3.23 | 8.34 | 5.75 | 56\% | 39\% | 69\% |  | 1.45 | 5.6858006 | 5.81 |  |  |  |  |  |  |  |  | 12,172 | 8,751 |  |  |  |  | 12,172 | 8,751 |  |
| 9/10/2018 | FALSE | FALSE | FALSE | 3.18 | 8.17 | 5.88 | 54\% | 39\% | 72\% |  | 1.39 | 5.706774 | 5.85 |  |  |  |  |  |  |  |  | 12,172 | 8,751 |  |  |  |  | 12,172 | 8,751 |  |
| 9/11/2018 | FALSE | false | FALSE | 3.35 | 8.59 | 6.01 | 56\% | 39\% | 70\% |  | 1.43 | 5.733548 | 5.88 |  |  |  |  |  |  |  |  | 12,172 | 8,751 |  |  |  |  | 12,172 | 8,751 |  |
| 9/12/2018 | FALSE | FALSE | FALSE | 3.26 | 8.81 | 6.06 | 54\% | 37\% | 69\% |  | 1.45 | 5.76 | 5.90 |  |  |  |  |  |  |  |  | 12,172 | 8,751 |  |  |  |  | 12,172 | 8,751 |  |
| 9/13/2018 | FALSE | FALSE | FALSE | 3.14 | 8.67 | 5.93 | 53\% | 36\% | 68\% |  | 1.46 | 5.779355 | 5.91 | 245.80 | 178.00 | 0.72 |  | 12,156 | 8,803 |  |  | 12,170 | 8,758 |  | 12,156 | 8,803 |  | 12,170 | 8,758 |  |
| 9/14/2018 | FALSE | FALSE | FALSE | 3.33 | 8.35 | 5.96 | 56\% | 40\% | 71\% |  | 1.40 | 5.795484 | 5.90 | 220.20 | 202.00 | 0.92 |  | 10,945 | 10,041 |  |  | 12,034 | 8,900 |  | 10,945 | 10,041 |  | 12,034 | 8,900 |  |
| 9/15/2018 | FALSE | FALSE | FALSE | 3.23 | 8.10 | 5.86 | 55\% | 40\% | 72\% |  | 1.38 | 5.803548 | 5.91 |  |  |  |  |  |  |  |  | 12,065 | 8,621 |  |  |  |  | 12,065 | 8,621 |  |
| 9/16/2018 | FALSE | FALSE | FALSE | 3.22 | 8.25 | 5.85 | 55\% | 39\% | 71\% |  | 1.41 | 5.810645 | 5.91 |  |  |  |  |  |  |  |  | 11,894 | 8,598 |  |  |  |  | 11,894 | 8,598 |  |
| 9/17/2018 | FALSE | FALSE | FALSE | 3.14 | 8.64 | 5.89 | 53\% | 36\% | 68\% |  | 1.47 | 5.826452 | 5.93 |  |  |  |  |  |  |  |  | 11,894 | 8,598 |  |  |  |  | 11,894 | 8,598 |  |
| 9/18/2018 | FALSE | FALSE | FALSE | 3.37 | 8.43 | 5.96 | 57\% | 40\% | 71\% |  | 1.41 | 5.843548 | 5.94 |  |  |  |  |  |  |  |  | 11,894 | 8,598 |  |  |  |  | 11,894 | 8,598 |  |
| 9/19/2018 | FALSE | FALSE | FALSE | 3.32 | 8.65 | 5.92 | 56\% | 38\% | 68\% |  | 1.46 | 5.854194 | 5.93 | 265.40 | 217.00 | 0.82 |  | 13,104 | 10,714 |  |  | 12,045 | 8,862 |  | 13,104 | 10,714 |  | 12,045 | 8,862 |  |
| 9/20/2018 | FALSE | FALSE | FALSE | 3.17 | 8.37 | 5.79 | 55\% | 38\% | 69\% |  | 1.45 | 5.860645 | 5.90 |  |  |  |  |  |  |  |  | 12,045 | 8,862 |  |  |  |  | 12,045 | 8,862 |  |
| 9/21/2018 | FALSE | false | false | 3.23 | 8.22 | 5.85 | 55\% | 39\% | 71\% |  | 1.41 | 5.866452 | 5.89 | 259.90 | 212.00 | 0.82 |  | 12,680 | 10,343 |  |  | 12,116 | 9,027 |  | 12,880 | 10,343 |  | 12,116 | 9,027 |  |
| 9/22/2018 | FALSE | FALSE | false | 3.29 | 7.98 | 5.71 | 58\% | 41\% | 72\% |  | 1.40 | 5.864194 | 5.85 |  |  |  |  |  |  |  |  | 12,112 | 9,173 |  |  |  |  | 12,112 | 9,173 |  |
| 9/23/2018 | FALSE | FALSE | FALSE | 3.19 | 7.89 | 5.73 | 56\% | 40\% | 73\% |  | 1.38 | 5.859677 | 5.84 |  |  |  |  |  |  |  |  | 12,114 | 9,134 |  |  |  |  | 12,114 | 9,134 |  |
| 9/24/2018 | FALSE | FALSE | FALSE | 3.09 | 8.28 | 5.78 | 53\% | 37\% | 70\% |  | 1.43 | 5.859032 | 5.83 |  |  |  |  |  |  |  |  | 12,114 | 9,134 |  |  |  |  | 12,114 | 9,134 |  |
| 9/25/2018 | FALSE | FALSE | FALSE | 3.21 | 8.65 | 5.81 | 55\% | 37\% | 67\% |  | 1.49 | 5.861613 | 5.82 |  |  |  |  |  |  |  |  | 12,114 | 9,134 |  |  |  |  | 12,114 | 9,134 |  |
| 9/26/2018 | FALSE | FALSE | FALSE | 3.22 | 8.57 | 5.77 | 56\% | 38\% | 67\% |  | 1.49 | 5.855806 | 5.80 | 260.40 | 150.00 | 0.58 |  | 12,531 | 7,218 |  |  | 12,166 | 8,894 |  | 12,531 | 7,218 |  | 12,166 | 8,894 |  |
| 9/27/2018 | FALSE | FALSE | FALSE | 3.25 | 8.39 | 5.77 | 56\% | 39\% | 69\% |  | 1.45 | 5.847419 | 5.78 | 252.60 | 187.00 | 0.74 |  | 12,156 | 8,999 |  |  | 12,165 | 8,906 |  | 12,156 | 8,999 |  | 12,165 | 8,906 |  |
| 9/28/2018 | FALSE | FALSE | FALSE | 3.31 | 8.03 | 5.86 | 56\% | 41\% | 73\% |  | 1.37 | 5.844516 | 5.79 |  |  |  |  |  |  |  |  | 12,165 | 8,906 |  |  |  |  | 12,165 | 8,906 |  |
| 9/29/2018 | FALSE | FALSE | FALSE | 3.25 | 8.19 | 5.89 | 55\% | 40\% | 72\% |  | 1.39 | 5.843226 | 5.79 |  |  |  |  |  |  |  |  | 12,137 | 8,950 |  |  |  |  | 12,137 | 8,950 |  |
| 9/30/2018 | FALSE | FALSE | FALSE | 3.12 | 8.15 | 5.82 | 54\% | 38\% | 71\% |  | 1.40 | 5.839032 | 5.80 |  |  |  |  |  |  |  |  | 12,137 | 8,950 |  |  |  |  | 12,137 | 8,950 |  |
| 10/1/2018 | FALSE | FALSE | FALSE | 3.12 | 8.40 | 5.96 | 52\% | 37\% | 71\% |  | 1.41 | 5.842581 | 5.83 |  |  |  |  |  |  |  |  | 12,137 | 8,950 |  |  |  |  | 12,137 | 8,950 |  |
| 10/2/2018 | FALSE | FALSE | TRUE | 3.15 | 8.36 | 6.05 | 52\% | 38\% | 72\% |  | 1.38 | 5.856452 | 5.87 |  |  |  |  |  |  |  |  | 12,137 | 8,950 |  |  |  |  | 12,137 | 8,950 |  |
| 10/3/2018 | FALSE | FALSE | TRUE | 3.25 | 8.64 | 6.13 | 53\% | 38\% | 71\% |  | 1.41 | 5.876452 | 5.91 |  |  |  |  |  |  |  |  | 12,137 | 8,950 |  |  |  |  | 12,137 | 8,950 |  |
| 10/4/2018 | FALSE | FALSE | TRUE | 3.29 | 8.61 | 6.14 | 54\% | 38\% | 71\% |  | 1.40 | 5.887097 | 5.95 | 295.10 | 186.00 | 0.63 |  | 15,111 | 9,525 |  |  | 12,468 | 9,014 |  | 15,111 | 9,525 |  | 12,468 | 9,014 |  |
| 10/5/2018 | FALSE | FALSE | TRUE | 3.27 | 8.35 | 5.98 | 55\% | 39\% | 72\% |  | 1.40 | 5.890323 | 5.98 | 297.80 | 233.00 | 0.78 |  | 14,852 | 11,620 |  |  | 12,706 | 9,274 |  | 14,852 | 11,620 |  | 12,706 | 9,274 |  |
| 10/6/2018 | FALSE | FALSE | FALSE | 3.23 | 8.31 | 5.80 | 56\% | 39\% | 70\% |  | 1.43 | 5.887742 | 5.97 |  |  |  |  |  |  |  |  | 12,784 | 9,542 |  |  |  |  | 12,784 | 9,542 |  |
| 10/7/2018 | FALSE | FALSE | FALSE | 3.15 | 8.17 | 5.73 | 55\% | 39\% | 70\% |  | 1.43 | 5.88 | 5.95 |  |  |  |  |  |  |  |  | 12,942 | 9,658 |  |  |  |  | 12,942 | 9,658 |  |
| 10/8/2018 | FALSE | FALSE | FALLE | 3.09 | 8.05 | 5.81 | 53\% | 38\% | 72\% |  | 1.39 | 5.879032 | 5.95 |  |  |  |  |  |  |  |  | 12,942 | 9,658 |  |  |  |  | 12,942 | 9,658 |  |
| 10/9/2018 | FALSE | FALSE | FALSE | 3.24 | 8.30 | 5.82 | 56\% | 39\% | 70\% |  | 1.43 | 5.879677 | 5.93 |  |  |  |  |  |  |  |  | 12,942 | 9,658 |  |  |  |  | 12,942 | 9,658 |  |
| 10/10/2018 | FALSE | FALSE | FALSE | 3.18 | 8.63 | 5.81 | 55\% | 37\% | 67\% |  | 1.49 | 5.881613 | 5.98 | 371.00 | 165.00 | 0.44 |  | 17,977 | 7,995 |  |  | 13,501 | 9,473 |  | 17,977 | 7,995 |  | 13,501 | 9,473 |  |
| 10/11/2018 | FALSE | FALSE | FALSE | 3.20 | 8.25 | 5.87 | 55\% | 39\% | 71\% |  | 1.41 | 5.88129 | 5.87 | 133.10 | 311.00 | 2.34 |  | 6,516 | 15,225 |  |  | 12,803 | 10,048 |  | 6,239 | 15,124 |  | 12,775 | 10,038 |  |
| 10/12/2018 | FALSE | FALSE | FALSE | 3.20 | 8.21 | 5.85 | 55\% | 39\% | 71\% |  | 1.40 | 5.876129 | 5.83 |  |  |  |  |  |  |  |  | ${ }^{12,803}$ | 10,048 |  |  |  |  | 12,775 | 10,038 |  |
| 10/13/2018 | FALSE | FALSE | FALSE | 3.21 | 7.88 | 5.64 | 57\% | 41\% | 72\% |  | 1.40 | 5.862581 | 5.79 |  |  |  |  |  |  |  |  | 12,803 | 10,048 |  |  |  |  | 12,775 | 10,038 |  |
| 10/14/2018 | FALSE | FALSE | FALISE | 3.17 3.15 | 8.00 | 5.68 | 56\% | 40\% | 71\% |  | 1.41 | 5.854516 | 5.78 |  |  |  |  |  |  |  |  | 12,875 | 10,187 |  |  |  |  | 12,844 | 10,175 |  |
| 10/15/2018 | FALSE | FALSE | ${ }_{\text {FALSE }}$ | 3.15 3 | 8.26 | 5.78 | 54\% | 38\% | 70\% |  | 1.43 | 5.88871 | 5.78 |  |  |  |  |  |  |  |  | 13,116 | 10,205 |  |  |  |  | 13,081 | 10,192 |  |
| 10/16/2018 | FALSE | FALSE | FALISE | 3.08 | 8.33 | 5.81 | 53\% | 37\% | 70\% |  | 1.43 | 5.847097 | 5.78 |  |  |  |  |  |  |  |  | 13,116 | 10,205 |  |  |  |  | 13,081 | 10,192 |  |
| 10/17/2018 | FALSE | ${ }_{\text {FALSE }}$ | ${ }_{\text {FFALSE }}$ | 3.17 | 8.49 | 5.87 | 54\% | 37\% | 69\% |  | 1.45 | 5.847742 | 5.79 | 272.90 | 182.00 | 0.67 |  | 13,360 | 8,910 |  |  | 13,143 | 10,061 |  | 13,360 | 8,910 |  | 13,112 | 10,050 |  |
| 10/18/2018 | FALSE | FALSE | FALLE | 3.26 | 8.58 | 5.90 | 55\% | 38\% | 69\% |  | 1.45 | 5.848065 | 5.80 | 285.70 | 217.00 | 0.76 |  | 14,058 | 10,678 |  |  | 13,235 | 10,123 |  | 14,058 | 10,678 |  | 13,207 | 10,113 |  |
| 10/19/2018 | FALSE | FALSE | FALSE | 3.20 | 8.48 | 5.81 | 55\% | 38\% | 69\% |  | 1.46 | 5.843226 | 5.79 |  |  |  |  |  |  |  |  | 13,235 | 10,123 |  |  |  |  | 13,207 | 10,113 |  |
| 10/20/2018 | FALSE | FALSE | FALSE | 3.20 | 8.05 | 5.71 | 55\% | 40\% | 71\% |  | 1.41 | 5.836452 | 5.78 |  |  |  |  |  |  |  |  | 13,249 | 10,057 |  |  |  |  | 13,218 | 10,046 |  |
| $\begin{aligned} & 10 / 21 / 2018 \\ & 10 / 22 / 2018 \end{aligned}$ | FALSE | FALSE | FALLSE | 3.18 3.13 | 8.03 8.42 | $\begin{aligned} & 5.75 \\ & 5.83 \end{aligned}$ | $\begin{aligned} & 55 \% \\ & 54 \% \\ & \hline \end{aligned}$ | $\begin{aligned} & 40 \% \\ & 37 \% \\ & \hline \end{aligned}$ | $\begin{aligned} & 72 \% \\ & 69 \% \\ & \hline 69 \end{aligned}$ |  | 1.40 1.44 | 5.835161 5.834516 | 5.79 5.81 |  |  |  |  |  |  |  |  | 13,249 13,320 | 10,057 10,021 |  |  |  |  | 13,218 13,285 | 10,046 10,09 |  |
| 10/23/2018 | FALSE | FALSE | FALSE | 3.22 | 8.48 | 5.89 | 55\% | 38\% | 69\% |  | 1.44 | 5.840323 | 5.82 |  |  |  |  |  |  |  |  | 13,320 | 10,021 |  |  |  |  | 13,285 | 10,009 |  |
| 10/24/2018 | False | false | FALSE | 3.19 | 8.49 | 5.86 | 54\% | 38\% | 69\% |  | 1.45 | 5.844516 | 5.83 | 270.60 | 251.00 | 0.93 |  | 13,225 | 12,267 |  |  | 13,310 | 10,271 |  | 13,225 | 12,267 |  | 13,279 | 10,260 |  |


| Date | $\begin{aligned} & \text { Butte } \\ & \text { Break? } \end{aligned}$ | $\begin{gathered} \text { CSU } \\ \text { Break? } \end{gathered}$ | Precip? |  | $\begin{gathered} \text { Max } \\ \text { Influent } \\ \text { Flow, } \mathrm{mgd} \end{gathered}$ | $\begin{gathered} \text { Avg } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | Min \% of | Min \% of | $\begin{aligned} & \text { Avg \% of } \\ & \text { Max } \end{aligned}$ | $\begin{aligned} & \text { Flow } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | $\begin{aligned} & \text { Diurnal } \\ & \text { Peak } \\ & \text { Factor } \\ & \text { (DPF) } \end{aligned}$ | 30-d Avg of Avg Flow, mgd | 7-d Avg of Avg Flow, mgd | Influent TSS Conc., mg/L | $\begin{gathered} \text { Inifluent } \\ \text { BoD } \\ \text { Conc., } \\ \mathrm{mg} / \mathrm{L} \end{gathered}$ | $\begin{aligned} & \text { BoD/TSS } \\ & \text { Ratio } \end{aligned}$ | Influent NH3-N Conc., mg/L | Avg Inf TSS Load, ppd | Avg inf BOD Load, ppd | Avg linf NH3 Load, ppd | $\begin{aligned} & \text { Load } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | $\begin{gathered} \text { 30-d Avg } \\ \text { of TSS } \end{gathered}$ Load, ppd | 30-d Avg of BOD Load, ppd | 30-d Avg of NH3-N Load, ppd | non-SN TSS Load ppc | non-SN BOD Load ppd | non-SN NH3 Load, ppd | 30-d Avg of non-SN TSS Load, ppd | $\begin{aligned} & \text { 30-d Avg } \\ & \text { of non-SN } \\ & \text { BOD Load, } \end{aligned}$ ppd | $\begin{gathered} \text { 30-d Avg } \\ \text { of non-SN } \\ \text { NH3-N } \\ \text { Load, ppd } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 10/25/2018 | FALSE | FALSE | FALSE | 3.18 | 8.51 | 5.88 | 54\% | 37\% | 69\% |  | 1.45 | 5.847742 | 5.83 | 294.20 | 151.00 | 0.51 |  | 14,427 | 7,405 |  |  | 13,421 | 9,984 |  | 14,427 | 7,405 |  | 13,394 | 9,974 |  |
| 10/26/2018 | FALSE | FALSE | FALSE | 3.18 | 8.33 | 5.86 | 54\% | 38\% | 70\% |  | 1.42 | 5.849355 | 5.82 |  |  |  |  |  |  |  |  | 13,421 | 9,984 |  |  |  |  | 13,394 | 9,974 |  |
| 10/27/2018 | FALSE | false | FALSE | 3.22 | 8.13 | 5.74 | 56\% | 40\% | 71\% |  | 1.42 | 5.848387 | 5.82 |  |  |  |  |  |  |  |  | 13,520 | 10,292 |  |  |  |  | 13,489 | 10,280 |  |
| 10/28/2018 | false | FALSE | FALSE | 3.20 | 8.51 | 5.79 | 55\% | 38\% | 68\% |  | 1.47 | 5.849032 | 5.83 |  |  |  |  |  |  |  |  | 13,691 | 10,453 |  |  |  |  | 13,656 | 10,440 |  |
| 10/29/2018 | FALSE | FALSE | FALSE | 3.15 | 8.14 | 5.85 | 54\% | 39\% | 72\% |  | 1.39 | 5.84871 | 5.84 |  |  |  |  |  |  |  |  | 13,691 | 10,453 |  |  |  |  | 13,656 | 10,440 |  |
| 10/30/2018 | FALSE | FALSE | FALSE | 3.16 | 8.23 | 5.90 | 54\% | 38\% | 72\% |  | 1.39 | 5.849032 | 5.85 |  |  |  |  |  |  |  |  | 13,691 | 10,453 |  |  |  |  | 13,656 | 10,440 |  |
| 10/31/2018 | FALSE | FALSE | FALSE | 3.15 | 8.40 | 5.83 | 54\% | 38\% | 69\% |  | 1.44 | 5.849355 | 5.84 |  |  |  |  |  |  |  |  | 13,691 | 10,453 |  |  |  |  | 13,656 | 10,440 |  |
| 11/1/2018 | FALSE | FALSE | FALSE | 3.25 | 7.98 | 5.84 | 56\% | 41\% | 73\% |  | 1.37 | 5.845484 | 5.84 |  |  |  |  |  |  |  |  | 13,691 | 10,453 |  |  |  |  | 13,656 | 10,440 |  |
| 11/2/2018 | false | FALSE | FALSE | 3.18 | 8.27 | 5.85 | 54\% | 38\% | 71\% |  | 1.41 | 5.839032 | 5.83 |  |  |  |  |  |  |  |  | 13,691 | 10,453 |  |  |  |  | 13,656 | 10,440 |  |
| 11/3/2018 | FALSE | FALSE | FALSE | 3.18 | 8.11 | 5.76 | 55\% | 39\% | 71\% |  | 1.41 | 5.827097 | 5.82 |  |  |  |  |  |  |  |  | 13,691 | 10,453 |  |  |  |  | 13,656 | 10,440 |  |
| 11/4/2018 | FALSE | FALSE | FALSE | 3.09 | 8.66 | 5.90 | 52\% | 36\% | 68\% |  | 1.47 | 5.819355 | 5.84 |  |  |  |  |  |  |  |  | 13,488 | 10,586 |  |  |  |  | 13,448 | 10,571 |  |
| 11/5/2018 | FALSE | FALSE | FALSE | 3.11 | 8.19 | 5.82 | 53\% | 38\% | 71\% |  | 1.41 | 5.814194 | 5.84 |  |  |  |  |  |  |  |  | 13,261 | 10,413 |  |  |  |  | 13,214 | 10,396 |  |
| 11/6/2018 | false | FALSE | FALSE | 3.17 | 8.11 | 5.90 | 54\% | 39\% | 73\% |  | 1.37 | 5.817419 | 5.85 |  |  |  |  |  |  |  |  | 13,261 | 10,413 |  |  |  |  | 13,214 | 10,396 |  |
| 11/7/2018 | false | FALSE | FALSE | 3.15 | 8.09 | 5.84 | 54\% | 39\% | 72\% |  | 1.39 | 5.820968 | 5.84 |  |  |  |  |  |  |  |  | 13,261 | 10,413 |  |  |  |  | 13,214 | 10,396 |  |
| 11/8/2018 | FALSE | FALSE | FALSE | 3.12 | 7.95 | 5.81 | 54\% | 39\% | 73\% |  | 1.37 | 5.820968 | 5.84 | 255.60 | 197.00 | 0.77 |  | 12,385 | 9,546 |  |  | ${ }^{13,136}$ | 10,289 |  | 12,385 | 9,546 |  | 13,096 | 10,275 |  |
| 11/9/2018 | false | FALSE | FALSE | 3.14 | 6.99 | 5.15 | 61\% | 45\% | 74\% |  | 1.36 | 5.799355 | 5.75 |  |  |  |  |  |  |  |  | 13,136 | 10,289 |  |  |  |  | 13,096 | 10,275 |  |
| 11/10/2018 | FALSE | FALSE | FALSE | 3.07 | 7.22 | 5.16 | 59\% | 43\% | 71\% |  | 1.40 | 5.778387 | 5.67 |  |  |  |  |  |  |  |  | 12,329 | 10,672 |  |  |  |  | 12,282 | 10,655 |  |
| 11/11/2018 | false | FALSE | FALSE | 3.04 | 7.54 | 5.36 | 57\% | 40\% | 71\% |  | 1.41 | 5.761935 | 5.62 |  |  |  |  |  |  |  |  | 13,491 | 9,761 |  |  |  |  | 13,491 | 9,761 |  |
| 11/12/2018 | FALSE | FALSE | FALSE | 3.08 | 7.96 | 5.66 | 54\% | 39\% | 71\% |  | 1.41 | 5.755806 | 5.59 |  |  |  |  |  |  |  |  | 13,491 | 9,761 |  |  |  |  | 13,491 | 9,761 |  |
| 11/13/2018 | false | FALSE | FALSE | 3.18 | 7.63 | 5.79 | 55\% | 42\% | 76\% |  | 1.32 | 5.760645 | 5.58 |  |  |  |  |  |  |  |  | 13,491 | 9,761 |  |  |  |  | 13,491 | 9,761 |  |
| 11/14/2018 | false | False | FALSE | 3.11 | 7.88 | 5.84 | 53\% | 39\% | 74\% |  | 1.35 | 5.765806 | 5.58 | 249.30 | 170.00 | 0.68 |  | 12,142 | 8,280 |  |  | 13,266 | 9,514 |  | 12,142 | 8,280 |  | 13,266 | 9,514 |  |
| 11/15/2018 | FALSE | FALSE | FALSE | 3.19 | 7.74 | 5.85 | 55\% | 41\% | 76\% |  | 1.32 | 5.768065 | 5.58 | 253.00 | 259.00 | 1.02 |  | 12,344 | 12,636 |  |  | 13,135 | 9,960 |  | 12,344 | 12,636 |  | 13,135 | 9,960 |  |
| 11/16/2018 | false | true | FALSE | 3.29 | 8.05 | 5.86 | 56\% | 41\% | 73\% |  | 1.37 | 5.769677 | 5.58 |  |  |  |  |  |  |  |  | 13,135 | 9,960 |  |  |  |  | 13,135 | 9,960 |  |
| 11/17/2018 | FALSE | true | FALSE | 3.19 | 7.97 | 5.71 | 56\% | 40\% | 72\% |  | 1.40 | 5.764516 | 5.65 |  |  |  |  |  |  |  |  | 13,097 | 10,135 |  |  |  |  | 13,097 | 10,135 |  |
| 11/18/2018 | false | true | FALSE | 3.23 |  | 5.72 | 56\% |  |  | inMaxavgM | 0.00 | 5.76 | 5.72 |  |  |  |  |  |  |  |  | 12,905 | 10,027 |  |  |  |  | 12,905 | 10,027 |  |
| 11/19/2018 | FALSE | TrUE | FALSE | 3.03 | 7.59 | 5.81 | 52\% | 40\% | 77\% |  | 1.31 | 5.76 | 5.79 |  |  |  |  |  |  |  |  | 12,905 | 10,027 |  |  |  |  | 12,905 | 10,027 |  |
| 11/20/2018 | false | true | FALSE | 3.22 | 7.85 | 5.87 | 55\% | 41\% | 75\% |  | 1.34 | 5.765333 | 5.82 |  |  |  |  |  |  |  |  | 12,905 | 10,027 |  |  |  |  | 12,905 | 10,027 |  |
| 11/21/2018 | TRUE | true | TRUE | 3.16 | 8.50 | 6.18 | 51\% | 37\% | 73\% |  | 1.38 | 5.779667 | 5.87 | 274.50 | 210.00 | 0.77 |  | 14,148 | 10,824 |  |  | 13,112 | 10,160 |  | 14,148 | 10,824 |  | 13,112 | 10,160 |  |
| 11/22/2018 | true | true | true | 3.39 | 9.43 | 6.02 | 56\% | 36\% | 64\% |  | 1.57 | 5.786 | 5.90 |  |  |  |  |  |  |  |  | 13,112 | 10,160 |  |  |  |  | 13,112 | 10,160 |  |
| 11/23/2018 | TRUE | true | TRUE | 3.28 | 8.48 | 5.88 | 56\% | 39\% | 69\% |  | 1.44 | 5.785667 | 5.90 |  |  |  |  |  |  |  |  | 13,112 | 10,160 |  |  |  |  | 13,112 | 10,160 |  |
| 11/24/2018 | true | true | FALSE | 3.40 | 8.78 | 6.10 | 56\% | 39\% | 69\% |  | 1.44 | 5.793667 | 5.94 |  |  |  |  |  |  |  |  | 13,089 | 9,738 |  |  |  |  | 13,089 | 9,738 |  |
| 11/25/2018 | true | true | FALSE | 3.31 | 8.88 | 6.35 | 52\% | 37\% | 72\% |  | 1.40 | 5.809333 | 6.03 |  |  |  |  |  |  |  |  | 12,755 | 10,321 |  |  |  |  | 12,755 | 10,321 |  |
| 11/26/2018 | TRUE | true | FALSE | 3.24 | 8.50 | 6.46 | 50\% | 38\% | 76\% |  | 1.32 | 5.829333 | 6.08 |  |  |  |  |  |  |  |  | 12,755 | 10,321 |  |  |  |  | 12,755 | 10,321 |  |
| 11/27/2018 | FALSE | FALSE | True | 3.31 | 8.79 | 6.61 | 50\% | 38\% | 75\% |  | 1.33 | 5.858333 | 6.18 |  |  |  |  |  |  |  |  | 12,755 | 10,321 |  |  |  |  | 12,755 | 10,321 |  |
| 11/28/2018 | false | FALSE | True | 3.49 | 9.03 | 6.70 | 52\% | 39\% | 74\% |  | 1.35 | 5.888667 | 6.29 | 248.60 |  |  |  | 13,891 |  |  |  | 12,982 | 10,321 |  | 13,891 |  |  | 12,982 | 10,321 |  |
| 11/29/2018 | FALSE | FALSE | TRUE | 3.85 | 11.12 | 8.34 | 46\% | 35\% | 75\% |  | 1.33 | 5.971667 | 6.56 | 244.80 | 173.00 | 0.71 |  | 17,027 | 12,033 |  |  | 13,656 | 10,664 |  | 16,972 | 12,008 |  | 13,647 | 10,659 |  |
| 11/30/2018 | false | FALSE | True | 4.47 | 11.13 | 7.97 | 56\% | 40\% | 72\% |  | 1.40 | 6.040667 | 6.80 |  |  |  |  |  |  |  |  | 13,656 | 10,664 |  |  |  |  | 13,647 | 10,659 |  |
| 12/1/2018 | FALSE | FALSE | FALSE | 3.69 | 10.08 | 7.20 | 51\% | 37\% | 71\% |  | 1.40 | 6.086333 | 6.97 |  |  |  |  |  |  |  |  | 13,656 | 10,664 |  |  |  |  | 13,647 | 10,659 |  |
| 12/2/2018 | FALSE | FALSE | FALSE | 3.47 | 9.87 | 6.99 | 50\% | 35\% | 71\% |  | 1.41 | 6.124667 | 7.08 |  |  |  |  |  |  |  |  | 13,656 | 10,664 |  |  |  |  | 13,647 | 10,659 |  |
| 12/3/2018 | FALSE | FALSE | FALSE | 3.41 | 9.32 | 6.79 | 50\% | 37\% | 73\% |  | 1.37 | 6.156 | 7.13 |  |  |  |  |  |  |  |  | 13,656 | 10,664 |  |  |  |  | 13,647 | 10,659 |  |
| 12/4/2018 | FALSE | FALSE | FALSE | 3.33 | 9.32 | 6.70 | 50\% | 36\% | 72\% |  | 1.39 | 6.187333 | 7.16 |  |  |  |  |  |  |  |  | 13,656 | 10,664 |  |  |  |  | 13,647 | 10,659 |  |
| 12/5/2018 | FALSE | FALSE | TRUE | 3.33 | 9.15 | 6.70 | 50\% | 36\% | 73\% |  | 1.37 | 6.214 | 7.17 | 218.40 | 234.00 | 1.07 |  | 12,204 | 13,075 |  |  | 13,449 | 11,066 |  | 12,204 | 13,075 |  | 13,441 | 11,062 |  |
| 12/6/2018 | FALSE | FALSE | FALSE | 3.33 | 9.14 | 6.63 | 50\% | 36\% | 73\% |  | 1.38 | 6.241 | 7.17 | 221.70 | 244.00 | 1.10 |  | 12,259 | 13,492 |  |  | 13,300 | 11,412 |  | 12,259 | 13,492 |  | 13,293 | 11,409 |  |
| 12/7/2018 | FALSE | FALSE | FALSE | 3.36 | 8.93 | 6.53 | 51\% | 38\% | 73\% |  | 1.37 | 6.262 | 6.94 |  |  |  |  |  |  |  |  | 13,300 | 11,412 |  |  |  |  | 13,293 | 11,409 |  |
| 12/8/2018 | FALSE | FALSE | FALSE | 3.29 | 9.27 | 6.42 | 51\% | 35\% | 69\% |  | 1.44 | 6.281333 | 6.75 |  |  |  |  |  |  |  |  | 13,300 | 11,412 |  |  |  |  | 13,293 | 11,409 |  |
| 12/9/2018 | FALSE | FALSE | FALSE | 3.21 | 9.17 | 6.44 | 50\% | 35\% | 70\% |  | 1.42 | 6.302333 | 6.65 |  |  |  |  |  |  |  |  | 13,431 | 11,723 |  |  |  |  | 13,423 | 11,719 |  |
| 12/10/2018 | FALSE | FALSE | TRUE | 3.20 | 8.53 | 6.38 | 50\% | 38\% | 75\% |  | 1.34 | 6.343333 | 6.57 |  |  |  |  |  |  |  |  | 13,431 | 11,723 |  |  |  |  | 13,423 | 11,719 |  |
| 12/11/2018 | FALSE | FALSE | FALSE | 3.16 | 8.80 | 6.45 | 49\% | 36\% | 73\% |  | 1.36 | 6.386333 | 6.53 |  |  |  |  |  |  |  |  | 13,431 | 11,723 |  |  |  |  | 13,423 | 11,719 |  |
| 12/12/2018 | FALSE | FALSE | FALSE | 3.16 | 8.96 | 6.40 | 49\% | 35\% | 71\% |  | 1.40 | 6.421 | 6.49 | 233.30 | 235.00 | 1.01 |  | 12,453 | 12,543 |  |  | 13,308 | 11,841 |  | 12,453 | 12,543 |  | 13,302 | 11,837 |  |
| 12/13/2018 | FALSE | FALSE | FALSE | 3.27 | 8.56 | 6.34 | 52\% | 38\% | 74\% |  | 1.35 | 6.443667 | 6.45 | 247.00 | 198.00 | 0.80 |  | 13,060 | 10,469 |  |  | 13,281 | 11,669 |  | 12,872 | 10,415 |  | 13,254 | 11,659 |  |
| 12/14/2018 | FALSE | FALSE | TRUE | 3.22 | 8.62 | 6.37 | 51\% | 37\% | 74\% |  | 1.35 | 6.463 | 6.42 |  |  |  |  |  |  |  |  | 13,281 | 11,669 |  |  |  |  | 13,254 | 11,659 |  |
| 12/15/2018 | FALSE | FALSE | TRUE | 3.37 | 9.63 | 6.58 | 51\% | 35\% | 68\% |  | 1.46 | 6.487667 | 6.42 |  |  |  |  |  |  |  |  | 13,423 | 12,153 |  |  |  |  | 13,393 | 12,142 |  |
| 12/16/2018 | FALSE | TRUE | TRUE | 3.27 | 12.22 | 7.44 | 44\% | 27\% | 61\% |  | 1.64 | 6.540667 | 6.55 |  |  |  |  |  |  |  |  | 13,577 | 12,073 |  |  |  |  | 13,543 | 12,060 |  |
| 12/17/2018 | FALLE | TRUE | TRUE | 7.34 | 12.31 | 10.16 | 72\% | 60\% | 83\% | inAvgMinM | 1.21 | 6.564138 | 6.57 |  |  |  |  |  |  |  |  | 13,577 | 12,073 |  |  |  |  | 13,543 | 12,060 |  |
| 12/18/2018 | ${ }^{\text {FALSE }}$ | TRUE | FALSE | 4.35 | 11.12 | 8.06 | 54\% | 39\% | 72\% |  | 1.38 | 6.645172 | 6.81 |  |  |  |  |  |  |  |  | 13,577 | 12,073 |  |  |  |  | 13,543 | 12,060 |  |
| 12/19/2018 | TRUE | TRUE | FALSE | 3.71 | 9.81 | 7.39 | 50\% | 38\% | 75\% |  | 1.33 | ${ }_{6}^{6.67}$ | 6.94 | 139.20 | 249.00 | 1.79 |  | 8,579 | 15,347 |  |  | 12,953 | 12,540 |  | 8,579 | 15,347 |  | 12,922 | 12,529 |  |
| 12/20/2018 | TRUE | TRUE | TRUE | 3.78 | 9.30 | 7.14 | 53\% | 41\% | 77\% |  | 1.30 | 6.714333 | 7.05 |  |  |  |  |  |  |  |  | 12,953 | 12,540 |  |  |  |  | 12,922 | 12,529 |  |
| 12/21/2018 | TRUE | TRUE | TRUE | 3.67 | 9.51 | 7.25 | 51\% | 39\% | 76\% |  | 1.31 | 6.760333 | 7.18 |  |  |  |  |  |  |  |  | 12,953 | 12,540 |  |  |  |  | 12,922 | 12,529 |  |
| 12/22/2018 | TRUE | TRUE | ${ }_{\text {FALSE }}$ | 3.68 | 9.56 | 6.72 | 55\% | 38\% | 70\% |  | 1.42 | 6.778333 | 7.23 |  |  |  |  |  |  |  |  | 12,782 | 12,827 |  |  |  |  | 12,747 | 12,813 |  |
| 12/23/2018 $12 / 24 / 2018$ | TRUE | TRUE | TRUE | 3.42 3 | 9.40 |  | 54\% | $36 \%$ $36 \%$ | 67\% |  | 1.48 1.45 | 6.789 6.818 | 7.19 7.09 |  |  |  |  |  |  |  |  | 12,782 12,782 | 12,827 <br> 12827 <br> 1285 |  |  |  |  | 12,747 12747 | 12,813 12,813 |  |
| 12/24/2018 | TRUE | TRUE TRUE | TRUE TRUE | 3.57 3.97 | 9.80 8.33 | 6.75 6.44 | 53\% | 36\% 48 | 69\% |  | 1.45 1.29 | ${ }^{6.88189333}$ | 7.01 |  |  |  |  |  |  |  |  | 12,782 | ${ }_{12,827}^{12,87}$ |  |  |  |  | -12,747 | 12,813 12,813 |  |
| 12/26/2018 | true | true | true | 3.50 | 8.81 | 6.56 | 53\% | 40\% | 74\% |  | 1.34 | 6.836333 | 6.82 |  |  |  |  |  |  |  |  | 12,782 | 12,827 |  |  |  |  | 12,747 | 12,813 |  |





|  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | $\begin{array}{ll} \\ 14,087 & 16,462 \\ 14,175 & 18,098\end{array}$ |  |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

 \begin{tabular}{ll}
18,098 <br>
\hline 18,552 <br>
\hline

 18,652 

14,548 \& 19,637 <br>
\hline 1,548 \& 19,637 <br>
\hline 1,548 \& 19,637

 

19,63 <br>
19,637 <br>
\hline

 

$3 / 3 / 2019$ \& FALLE \& FALSE \& TRUE \& 8.99 \& 16.95 \& 13.59 \& $66 \%$ <br>
$3 / 4 / 2019$ \& FALSE \& FALSE \& FALSE \& 9.68 \& 16.98 \& 13.52 \& $72 \%$ <br>
\hline
\end{tabular}

| 8.77 | 9.07 | 93.50 | 149.00 | 1.59 | 11,619 | 18,516 | 14,087 | 16,462 | 11,619 | 18,516 | 14,087 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 8.85 | 9.41 | 135.80 | 268.00 | 1.97 | 14,973 | 29,548 | 14,175 | 18,098 | 14,973 | 29,548 | 14,175 |
| 9.13 | 10.93 |  |  |  |  |  | 14,259 | 18,652 |  |  | 14,259 |
| 9.41 | 12.55 |  |  |  |  |  | 14,548 | 19,637 |  |  | 14,548 |
| 9.53 | 14.35 |  |  |  |  |  | 14,548 | 19,637 |  |  | 14,548 |
| 9.62 | 13.93 |  |  |  |  |  | 14,548 | 19,637 |  |  | 14,548 |
| 9.62 | 13.21 |  |  |  |  |  | 14,548 | 19,637 |  |  | 14,548 |
| 9.52 | 13.21 | 142.60 | 187.00 | 1.31 | 16,864 | 22,115 | 14,805 | 19,991 | 16,864 | 22,115 | 14,805 |
| 9.49 | 13.21 | 138.60 | 204.00 | 1.47 | 14,657 | 21,573 | 14,790 | 20,189 | 14,657 | 21,573 | 14,790 |
| 9.50 | 13.21 |  |  |  |  |  | 14,790 | 20,189 |  |  | 14,790 |
| 9.55 | 13.13 |  |  |  |  |  | 14,857 | 20,189 |  |  | 14,857 |
| 9.71 | 11.88 |  |  |  |  |  | 15,351 | 21,274 |  |  | 15,351 |
| 9.82 | 11.88 |  |  |  |  |  | 15,351 | 21,274 |  |  | 15,351 |
| 9.95 | 11.08 | 194.20 | 230.00 | 1.18 | 16,812 | 19,911 | 15,513 | 21,104 | 16,812 | 19,911 | 15,513 |
| 10.12 | 11.08 | 195.70 |  |  | 16,223 |  | 15,584 | 21,104 | 15,888 |  | 15,550 |
| 10.32 | 11.08 |  |  |  |  |  | 15,584 | 21,104 |  |  | 15,550 |
| 10.11 | 11.08 |  |  |  |  |  | 14,822 | 21,104 |  |  | 14,785 |
| 10.11 | 11.08 |  |  |  |  |  | 14,062 | 20,508 |  |  | 14,021 |
| 10.11 | 11.08 |  |  |  |  |  | 14,062 | 20,508 |  |  | 14,021 |
| 10.02 | \#DIV/0! |  |  |  |  |  | 14,062 | 20,508 |  |  | 14,021 |
| 10.06 | \#DIV/0! |  |  |  |  |  | 14,062 | 20,508 |  |  | 14,021 |
| 10.16 | \#DIV/0! | 233.90 | 299.00 | 1.28 | 17,283 | 22,094 | 14,420 | 20,707 | 17,283 | 22,094 | 14,383 |
| 10.41 | \#DIV/0! | 245.90 | 197.00 | 0.80 | 18,478 | 14,803 | 14,826 | 20,051 | 18,478 | 14,803 | 14,793 |
| 10.67 | \#DIV/0! |  |  |  |  |  | 15,187 | 20,676 |  |  | 15,150 |
| 11.05 | \#DIV/0! |  |  |  |  |  | 15,864 | 21,223 |  |  | 15,822 |
| 11.41 | 10.21 |  |  |  |  |  | 15,864 | 21,223 |  |  | 15,822 |
| 12.02 | 10.21 |  |  |  |  |  | 15,864 | 21,223 |  |  | 15,822 |
| 12.84 | 10.21 | 218.30 | 215.00 | 0.98 | 20,628 | 20,316 | 16,393 | 21,109 | 20,628 | 20,316 | 16,356 |
| 12.84 | 10.21 | 127.90 | 235.00 | 1.84 | 11,488 | 21,108 | 15,902 | 21,109 | 11,488 | 21,108 | 15,869 |
| 12.18 | 10.21 |  |  |  |  |  | 15,902 | 21,109 |  |  | 15,869 |
| 12.18 | 10.21 |  |  |  |  |  | 15,902 | 21,109 |  |  | 15,869 |
| 12.18 | 10.21 |  |  |  |  |  | 16,378 | 21,434 |  |  | 16,341 |
| 12.18 | 10.21 |  |  |  |  |  | 16,554 | 20,274 |  |  | 16,512 |
| 11.89 | \#DIV/0! |  |  |  |  |  | 16,554 | 20,274 |  |  | 16,512 |
| 11.32 | \#DIV/0! | 313.20 | 105.00 | 0.34 | 41,454 | 13,897 | 19,321 | 19,477 | 41,454 | 13,897 | 19,284 |
| 11.32 | \#DIV/0! |  |  |  |  |  | 19,321 | 19,477 |  |  | 19,284 |
| 10.65 | \#DIV/0! | 134.10 | 226.00 | 1.69 | 13,074 | 22,034 | 18,696 | 19,761 | 13,074 | 22,034 | 18,663 |
| 10.65 | \#DIV/0! |  |  |  |  |  | 18,696 | 19,761 |  |  | 18,663 |
| 10.65 | \#DIV/0! |  |  |  |  |  | 18,900 | 19,467 |  |  | 18,862 |
| 10.65 | \#DIV/0! |  |  |  |  |  | 19,430 | 19,166 |  |  | 19,388 |
| 10.44 | 10.03 |  |  |  |  |  | 19,430 | 19,166 |  |  | 19,388 |
| 10.44 | 10.03 |  |  |  |  |  | 19,430 | 19,166 |  |  | 19,388 |
| 10.12 | 10.03 | 238.10 |  |  | 18,746 |  | 19,354 | 19,166 | 18,746 |  | 19,317 |
| 10.12 | 10.03 | 228.00 | 223.00 | 0.98 | 17,779 | 17,389 | 19,196 | 18,944 | 17,779 | 17,389 | 19,163 |
| 10.12 | 10.03 |  |  |  |  |  | 19,461 | 18,806 |  |  | 19,424 |
| 10.12 | 10.03 |  |  |  |  |  | 19,866 | 18,806 |  |  | 19,866 |
| 10.12 | 10.03 |  |  |  |  |  | 19,866 | 18,806 |  |  | 19,866 |
| 10.12 | 10.03 |  |  |  |  |  | 19,866 | 18,806 |  |  | 19,866 |
| 10.12 | \#DIV/0! | 240.50 | 105.00 | 0.44 | 18,012 | 7,864 | 19,660 | 17,438 | 18,012 | 7,864 | 19,660 |
| 9.24 | 7.47 | 232.40 | 188.00 | 0.81 | 14,478 | 11,712 | 19,142 | 16,802 | 14,478 | 11,712 | 19,142 |
| 8.60 | 7.07 |  |  |  |  |  | 19,142 | 16,802 |  |  | 19,142 |
| 8.18 | 6.88 |  |  |  |  |  | 19,142 | 16,802 |  |  | 19,142 |
| 7.86 | 6.73 |  |  |  |  |  | 19,348 | 16,140 |  |  | 19,348 |
| 7.68 | 6.70 |  |  |  |  |  | 19,457 | 16,332 |  |  | 19,457 |
| 7.54 | 6.68 |  |  |  |  |  | 19,457 | 16,332 |  |  | 19,457 |
| 7.43 | 6.66 | 185.30 | 168.00 | 0.91 | 10,153 | 9,205 | 18,424 | 15,441 | 10,153 | 9,205 | 18,424 |
| 7.02 | 6.64 |  |  |  |  |  | 18,424 | 15,441 |  |  | 18,424 |
| 6.96 | 6.51 | 227.60 | 159.00 | 0.70 | 12,167 | 8,500 | 17,798 | 14,670 | 12,167 | 8,500 | 17,798 |
| 6.89 | 6.45 |  |  |  |  |  | 17,484 | 13,964 |  |  | 17,484 |
| 6.84 | 6.43 |  |  |  |  |  | 18,233 | 12,943 |  |  | 18,233 |
| 6.81 | 6.44 |  |  |  |  |  | 18,233 | 12,943 |  |  | 18,233 |
| 6.78 | 6.42 |  |  |  |  |  | 18,233 | 12,943 |  |  | 18,233 |
| 6.74 | 6.38 | 276.50 | 219.00 | 0.79 | 14,459 | 11,452 | 17,814 | 12,757 | 14,459 | 11,452 | 17,814 | 19,637

19,637


| $3 / 7 / 2019$ | FALLSE | FALLSE | FALSE | 10.06 | 17.42 | 14.18 | $70 \%$ | $58 \%$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |


| $3 / 2 / 8 / 2019$ | FALLE | FALSE | FALSE | 10.06 | 17.42 | 14.18 | $71 \%$ | $5 \%$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 3 | FALSE | FALSE | 9.24 | 16.81 | 12.68 | $73 \%$ | $55 \%$ |  | | $84 \%$ | inAvgMinM | 1.19 | 9.62 | 13.93 |
| :--- | :--- | :--- | :--- | :--- |

$\begin{array}{ll}18,233 & 12,943 \\ 17,814 & 12,757\end{array}$
$\qquad$

| 4/17/2019 | FALSE | FALSE | FALSE | 6.46 | 11.71 | 8.98 | $72 \%$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $4.12 / 2019$ |  |  |  |  |  |  |  || $4.118 / 219$ | FALSE | FALSE | FALSE | 3.40 | 11.58 | 7.47 | $46 \%$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |



| $4 / 20 / 2019$ | FALSE | FALSE | TRUE | 3.46 | 8.73 | 6.50 | $53 \%$ |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $4 / 21 / 2019$ | FALLE | FALSE | FALLE | 3.40 | 9.04 | 6.29 | $54 \%$ | 3 |
| $4 / 22 / 2019$ | FALSE | FALSE | FALSE | 3.34 | 9.01 | 6.57 | $51 \%$ | 367 |$142 \quad 16802$


| 16,348 | 16,802 |
| :--- | :--- |
| 16,140 |  || 19,457 | 16,332 |
| :--- | :--- |
| 9,457 | 16,322 || 18,424 | 15,441 |
| :--- | :--- |
| 18,424 | 15,441 |$\begin{array}{ll}18,424 & 15,441 \\ 17,798 \\ 14,491\end{array}$| $17,44,670$ |  |
| :--- | :--- |
| 17,484 | 13,964 |
| 18,233 | 12,943 || 12,233 | 12,943 |
| :--- | :--- |
| 18,233 | 12,943 |$\begin{array}{ll}18,233 & 12,943 \\ 17,814 & 12,757\end{array}$



\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Date \& \[
\begin{aligned}
\& \text { Butte } \\
\& \text { Break? }
\end{aligned}
\] \& \[
\begin{gathered}
\text { csu } \\
\text { Break? }
\end{gathered}
\] \& Precip? \& \[
\begin{array}{|c}
\substack{\text { Min } \\
\text { Influent } \\
\text { Flow, mgd }}
\end{array}
\] \& \[
\begin{gathered}
\text { Max } \\
\text { Influent } \\
\text { Flow, } \mathrm{mg} \text { ( }
\end{gathered}
\] \& \[
\begin{gathered}
\text { Avg } \\
\text { Influent } \\
\text { Flow, mgd }
\end{gathered}
\] \& \[
\underset{\text { Avg }}{\operatorname{Min} \% \text { of }}
\] \& \begin{tabular}{l}
Min \% of \\
Max
\end{tabular} \& Avg \% of
Max \& \[
\begin{aligned}
\& \text { Flow } \\
\& \text { Outlier } \\
\& \text { Type }
\end{aligned}
\] \& \begin{tabular}{l}
Diurnal \\
Peak \\
Factor \\
(DPF)
\end{tabular} \& 30-d Avg of Avg Flow, mgd \& 7-d Avg of Avg Flow, mgd \& Influent TSS Conc., mg/L \& Influent BOD Conc., mg/L \& \[
\begin{gathered}
\text { BOD/TSS } \\
\text { Ratio }
\end{gathered}
\] \& Influent NH3-N Conc., mg/L \& \[
\begin{aligned}
\& \text { Avg inf } \\
\& \text { TSS Load, } \\
\& \text { ppd }
\end{aligned}
\] \& \[
\begin{gathered}
\text { Avg lnf } \\
\text { BOD Load, } \\
\text { ppd }
\end{gathered}
\]
ppd \& Avg Inf NH3 Load, ppd \& \[
\begin{aligned}
\& \text { Load } \\
\& \text { Lutlier } \\
\& \text { Oype }
\end{aligned}
\] \& 30-d Avg of TSS Load, ppd \& 30-d Avg of BOD Load, ppd \& 30-d Avg of NH3-N Load, ppd \& \[
\begin{aligned}
\& \text { non-SN } \\
\& \text { TSS Load, } \\
\& \text { ppd }
\end{aligned}
\] \& \[
\begin{gathered}
\text { non-SN } \\
\text { BOD Load, } \\
\text { ppd }
\end{gathered}
\] \& non-SN NH3 Load, ppd \& \begin{tabular}{l}
30-d Avg \\
of non-SN TSS Load, ppd
\end{tabular} \& 30-d Avg of non-SN BOD Load, ppd \& \[
\begin{aligned}
\& \text { 30-d Avg } \\
\& \text { of non-SN } \\
\& \text { NH3-N } \\
\& \text { Load, ppd }
\end{aligned}
\] \\
\hline 7/4/2019 \& TRUE \& TrUE \& FALSE \& 3.49 \& 7.33 \& 5.32 \& 66\% \& 48\% \& 73\% \& \& 1.38 \& 5.79 \& 5.68 \& \& \& \& \& \& \& \& \& 13,256 \& 9,259 \& \& \& \& \& 13,256 \& 9,259 \& \\
\hline 7/5/2019 \& TRUE \& TRUE \& FALSE \& 3.41 \& 7.12 \& 5.23 \& 65\% \& 48\% \& 73\% \& \& 1.36 \& 5.76 \& 5.60 \& 233.00 \& 231.00 \& 0.99 \& \& 10,163 \& 10,076 \& \& \& 12,946 \& 9,361 \& \& 10,163 \& 10,076 \& \& 12,946 \& 9,361 \& \\
\hline 7/6/2019 \& true \& true \& FALSE \& 3.45 \& 7.18 \& 5.40 \& 64\% \& 48\% \& 75\% \& \& 1.33 \& 5.74 \& 5.55 \& \& \& \& \& \& \& \& \& 12,941 \& 8,838 \& \& \& \& \& 12,941 \& 8,838 \& \\
\hline 7/7/2019 \& true \& true \& FALSE \& 3.37 \& 7.34 \& 5.53 \& 61\% \& 46\% \& 75\% \& \& 1.33 \& 5.72 \& 5.55 \& \& \& \& \& \& \& \& \& 12,942 \& 8,319 \& \& \& \& \& 12,942 \& 8,319 \& \\
\hline 7/8/2019 \& true \& true \& FALSE \& 3.38 \& 7.66 \& 5.86 \& 58\% \& 44\% \& 77\% \& \& 1.31 \& 5.72 \& 5.59 \& \& \& \& \& \& \& \& \& 12,942 \& 8,319 \& \& \& \& \& 12,942 \& 8,319 \& \\
\hline 7/9/2019 \& true \& true \& FALSE \& 3.47 \& 8.03 \& 5.84 \& 59\% \& 43\% \& 73\% \& \& 1.38 \& 5.73 \& 5.59 \& \& \& \& \& \& \& \& \& 12,942 \& 8,319 \& \& \& \& \& 12,942 \& 8,319 \& \\
\hline 7/10/2019 \& true \& true \& FALSE \& 3.48 \& 8.03 \& 5.80 \& 60\% \& 43\% \& 72\% \& \& 1.38 \& 5.73 \& 5.59 \& \& \& \& \& \& \& \& \& 12,942 \& 8,319 \& \& \& \& \& 12,942 \& 8,319 \& \\
\hline 7/11/2019 \& TRUE \& True \& FALSE \& 3.63 \& 8.04 \& 5.83 \& 62\% \& 45\% \& 73\% \& \& 1.38 \& 5.73 \& 5.60 \& 284.50 \& 266.00 \& 0.93 \& \& 13,833 \& 12,934 \& \& \& 13,041 \& 8,978 \& \& 13,833 \& 12,934 \& \& 13,041 \& 8,978 \& \\
\hline 7/12/2019 \& true \& true \& FALSE \& 3.47 \& 7.77 \& 5.76 \& 60\% \& 45\% \& 74\% \& \& 1.35 \& 5.73 \& 5.66 \& 247.40 \& 304.00 \& 1.23 \& \& 11,885 \& 14,604 \& \& \& 12,925 \& 9,682 \& \& 11,885 \& 14,604 \& \& 12,925 \& 9,682 \& \\
\hline 7/13/2019 \& TRUE \& True \& FALSE \& 3.54 \& 7.23 \& 5.51 \& 64\% \& 49\% \& 76\% \& \& 1.31 \& 5.72 \& 5.69 \& \& \& \& \& \& \& \& \& 12,925 \& 9,682 \& \& \& \& \& 12,925 \& 9,682 \& \\
\hline 7/14/2019 \& TRUE \& TRUE \& FALSE \& 3.45 \& 7.08 \& 5.48 \& 63\% \& 49\% \& 77\% \& \& 1.29 \& 5.71 \& 5.70 \& \& \& \& \& \& \& \& \& 12,727 \& 10,076 \& \& \& \& \& 12,727 \& 10,076 \& \\
\hline 7/15/2019 \& TRUE \& TRUE \& FALSE \& 3.61 \& 7.78 \& 5.73 \& 63\% \& 46\% \& 74\% \& \& 1.36 \& 5.70 \& 5.73 \& \& \& \& \& \& \& \& \& 12,675 \& 10,072 \& \& \& \& \& 12,675 \& 10,072 \& \\
\hline 7/16/2019 \& TRUE \& TRUE \& FALSE \& 3.61 \& 7.65 \& 5.72 \& 63\% \& 47\% \& 75\% \& \& 1.34 \& 5.70 \& 5.71 \& \& \& \& \& \& \& \& \& 12,675 \& 10,072 \& \& \& \& \& 12,675 \& 10,072 \& \\
\hline 7/17/2019 \& TRUE \& true \& FALSE \& 3.72 \& 7.60 \& 5.73 \& 65\% \& 49\% \& 75\% \& \& 1.33 \& 5.71 \& 5.70 \& 266.80 \& 209.00 \& 0.78 \& \& 12,750 \& 9,988 \& \& \& 12,683 \& 10,060 \& \& 12,750 \& 9,988 \& \& 12,683 \& 10,060 \& \\
\hline 7/18/2019 \& true \& true \& FALSE \& 3.65 \& 7.68 \& 5.79 \& 63\% \& 48\% \& 75\% \& \& 1.33 \& 5.70 \& 5.69 \& \& \& \& \& \& \& \& \& 12,683 \& 10,060 \& \& \& \& \& 12,683 \& 10,060 \& \\
\hline 7/19/2019 \& TRUE \& TRUE \& FALSE \& 3.53 \& 7.59 \& 5.80 \& 61\% \& 47\% \& 76\% \& \& 1.31 \& 5.70 \& 5.69 \& 260.30 \& 259.00 \& 1.00 \& \& 12,591 \& 12,528 \& \& \& 12,674 \& 10,368 \& \& 12,591 \& 12,528 \& \& 12,674 \& 10,368 \& \\
\hline 7/20/2019 \& TRUE \& True \& FALSE \& 3.62 \& 7.29 \& 5.60 \& 65\% \& 50\% \& 77\% \& \& 1.30 \& 5.69 \& 5.67 \& \& \& \& \& \& \& \& \& 12,638 \& 10,984 \& \& \& \& \& 12,638 \& 10,984 \& \\
\hline 7/21/2019 \& True \& true \& FALSE \& 3.50 \& 7.11 \& 5.54 \& 63\% \& 49\% \& 78\% \& \& 1.28 \& 5.68 \& 5.67 \& \& \& \& \& \& \& \& \& 12,595 \& 11,703 \& \& \& \& \& 12,595 \& 11,703 \& \\
\hline 7/22/2019 \& true \& true \& FALSE \& 3.50 \& 7.68 \& 5.76 \& 61\% \& 46\% \& 75\% \& \& 1.33 \& 5.68 \& 5.71 \& \& \& \& \& \& \& \& \& 12,595 \& 11,703 \& \& \& \& \& 12,595 \& 11,703 \& \\
\hline 7/23/2019 \& TRUE \& TRUE \& FALSE \& 3.68 \& 7.89 \& 5.77 \& 64\% \& 47\% \& 73\% \& \& 1.37 \& 5.59 \& 5.71 \& \& \& \& \& \& \& \& \& 12,595 \& 11,703 \& \& \& \& \& 12,595 \& 11,703 \& \\
\hline 7/24/2019 \& TRUE \& true \& FALSE \& 3.54 \& 7.52 \& 5.65 \& 63\% \& 47\% \& 75\% \& \& 1.33 \& 5.69 \& 5.71 \& 262.50 \& 258.00 \& 0.98 \& \& 12,369 \& 12,157 \& \& \& 12,570 \& 11,768 \& \& 12,369 \& 12,157 \& \& 12,570 \& 11,768 \& \\
\hline 7/25/2019 \& TRUE \& TRUE \& FALSE \& 3.60
3
3 \& 7.62
7 \& 5.77
571 \& \({ }^{62 \%}\) \& 47\% \& 76\% \& \& 1.32 \& 5.69
568 \& 5.71
5
5 \& \& \& \& \& \& \& \& \& 12,570 \& 11,768 \& \& \& \& \& 12,570 \& 11,768
117768 \& \\
\hline 7/26/2019 \& true \& true \& FALSE \& 3.56 \& 7.69 \& 5.71 \& 62\% \& 46\% \& 74\% \& \& 1.35 \& 5.68 \& 5.70 \& \& \& \& \& \& \& \& \& 12,570 \& 11,768 \& \& \& \& \& 12,570 \& 11,768 \& \\
\hline 7/27/2019 \& TRUE \& TRUE \& FALSE \& 3.56 \& 7.19 \& 5.50 \& 65\% \& 50\% \& 76\% \& \& 1.31 \& 5.67 \& 5.66 \& \& \& \& \& \& \& \& \& 12,438 \& 11,768 \& \& \& \& \& 12,438 \& 11,768 \& \\
\hline 7/28/2019 \& TRUE \& TRUE \& FALSE \& 3.47 \& 6.92 \& 5.40 \& 64\% \& 50\% \& 78\% \& \& 1.28 \& 5.65
565 \& 5.64
5 \& \& \& \& \& \& \& \& \& 12,217
12217 \& \begin{tabular}{l}
12,048 \\
12048 \\
\hline 12,088
\end{tabular} \& \& \& \& \& 12,217
12,217 \& \begin{tabular}{l}
12,048 \\
12,048 \\
\hline 12,08
\end{tabular} \& \\
\hline 7/29/2019 \& TRUE \& TRUE \& FALSE \& 3.53
355 \& 7.51
773 \& 5.74
576 \& \({ }_{61 \%}\) \& 47\% \& 76\% \& \& 1.31
1.34 \& 5.65
566 \& 5.66
5 \& \& \& \& \& \& \& \& \& 12,217 \& 12,048 \& \& \& \& \& 12,217 \& 12,048 \& \\
\hline 7/30/2019 \& \({ }_{\text {TRUE }}^{\text {TRUE }}\) \& \({ }_{\text {TRUE }}^{\text {TRUE }}\) \& FALSE \& \begin{tabular}{l}
3.55 \\
3.63 \\
\hline
\end{tabular} \& 7.73 \& 5.76
5
5 \& \({ }_{62 \%}^{63 \%}\) \& 46\% \& 75\% \& \& 1.34
1.36 \& 5.66
5
5 \& 5.66
5
5 \& \& \& \& \& \& \& \& \& 12,217 \& \begin{tabular}{l}
12,048 \\
12,048 \\
\hline 12,54
\end{tabular} \& \& \& \& \& 12,217 \& 12,048 \& \\
\hline 7/31/2019 \& \(\underset{\text { TRUE }}{\text { TRUE }}\) \& \(\underset{\text { TRUE }}{\text { TRUE }}\) \& FALSE \& \begin{tabular}{l}
3.63 \\
3.63 \\
\hline
\end{tabular} \& 7.79
7.55 \& 5.73
5
5 \& 63\% \& 47\% \& 74\% \& \& \[
1.36
\] \& 5.66 \& 5.66 \& \& \& \& \& \& \& \& \& 12,217
11784 \& 12,048
12,547 \& \& \& \& \& 12,217
111784 \& 12,048
12,547 \& \\
\hline 8/1/2019 \& TRUE \& TRUE
TRUE \& \[
\begin{aligned}
\& \text { FALSE } \\
\& \text { FALSE }
\end{aligned}
\] \& \[
\begin{aligned}
\& 3.63 \\
\& 3.53
\end{aligned}
\] \& \[
\begin{aligned}
\& 7.55 \\
\& 7.70
\end{aligned}
\] \& \[
\begin{aligned}
\& 5.77 \\
\& 5.72 \\
\& \hline
\end{aligned}
\] \& 63\% \& 48\% \& \[
\begin{aligned}
\& 76 \% \\
\& 74 \%
\end{aligned}
\] \& \& \[
\begin{aligned}
\& 1.31 \\
\& 1.35 \\
\& \hline
\end{aligned}
\] \& \[
\begin{gathered}
5.66 \\
5.66
\end{gathered}
\] \& \[
\begin{aligned}
\& 5.67 \\
\& 5.67
\end{aligned}
\] \& 182.00
569.60 \& 323.00
380.00 \& 1.77
0.67 \& \& 87,758
27,173 \& 15,543
18,128 \& \& \& 11,784
13,494 \& 12,547
13,245 \& \& 8,758
27173 \& 15,543
18,128 \& \& 11,784
13,94 \& 12,547
13,245 \& \\
\hline 8/3/2019 \& True \& true \& FALSE \& 3.48 \& 7.12 \& 5.44 \& 64\% \& 49\% \& 76\% \& \& 1.31 \& 5.65 \& 5.63 \& \& \& \& \& \& \& \& \& 13,690 \& 13,245 \& \& \& \& \& 13,690 \& 13,245 \& \\
\hline 8/4/2019 \& True \& True \& FALSE \& 3.46 \& 7.21 \& 5.57 \& 62\% \& 48\% \& 77\% \& \& 1.29 \& 5.66 \& 5.64 \& \& \& \& \& \& \& \& \& 13,690 \& 13,245 \& \& \& \& \& 13,690 \& 13,245 \& \\
\hline 8/5/2019 \& true \& true \& FALSE \& 3.57 \& 7.64 \& 5.80 \& 62\% \& 47\% \& 76\% \& \& 1.32 \& 5.68 \& 5.69 \& \& \& \& \& \& \& \& \& 14,194 \& 13,697 \& \& \& \& \& 14,194 \& 13,697 \& \\
\hline 8/6/2019 \& true \& true \& FALSE \& 3.54 \& 7.98 \& 5.74 \& 62\% \& 44\% \& 72\% \& \& 1.39 \& 5.69 \& 5.69 \& \& \& \& \& \& \& \& \& 14,194 \& 13,697 \& \& \& \& \& 14,194 \& 13,697 \& \\
\hline 8/7/2019 \& true \& true \& FALSE \& 3.53 \& 7.76 \& 5.78 \& 61\% \& 45\% \& 74\% \& \& 1.34 \& 5.70 \& 5.69 \& 126.60 \& 403.00 \& 3.18 \& \& 6,103 \& 19,427 \& \& \& 13,183 \& 14,414 \& \& 6,103 \& 19,427 \& \& 13,183 \& 14,414 \& \\
\hline 8/8/2019 \& TRUE \& True \& FALSE \& 3.57 \& 7.84 \& 5.87 \& 61\% \& 46\% \& 75\% \& \& 1.34 \& 5.70 \& 5.71 \& 268.00 \& 366.00 \& 1.37 \& \& 13,120 \& 17,918 \& \& \& 13,176 \& 14,803 \& \& 13,120 \& 17,918 \& \& 13,176 \& 14,803 \& \\
\hline 8/9/2019 \& true \& true \& FALSE \& 3.54 \& 7.51 \& 5.52 \& 64\% \& 47\% \& 74\% \& \& 1.36 \& 5.69 \& 5.68 \& \& \& \& \& \& \& \& \& 13,176 \& 14,803 \& \& \& \& \& 13,176 \& 14,803 \& \\
\hline 8/10/2019 \& TRUE \& TRUE \& FALSE \& 3.43 \& 7.31 \& 5.67 \& 60\% \& 47\% \& 78\% \& \& 1.29 \& 5.68 \& 5.67 \& \& \& \& \& \& \& \& \& 13,176 \& 14,803 \& \& \& \& \& 13,176 \& 14,803 \& \\
\hline 8/11/2019 \& TRUE \& True \& FALSE \& 3.43 \& 7.23 \& 5.61 \& 61\% \& 47\% \& 78\% \& \& 1.29 \& 5.68 \& 5.70 \& \& \& \& \& \& \& \& \& 13,094 \& 15,037 \& \& \& \& \& 13,094 \& 15,037 \& \\
\hline 8/12/2019 \& TRUE \& TRUE \& FALSE \& 3.56 \& 7.40 \& 5.82 \& 61\% \& 48\% \& 79\% \& \& 1.27 \& 5.68 \& 5.73 \& \& \& \& \& \& \& \& \& 13,266 \& 15,098 \& \& \& \& \& 13,266 \& 15,098 \& \\
\hline 8/13/2019 \& TRUE \& TRUE \& FALSE \& 3.58 \& 8.00 \& 5.91 \& 61\% \& 45\% \& 74\% \& \& 1.35 \& 5.69 \& 5.74 \& \& \& \& \& \& \& \& \& 13,266 \& 15,098 \& \& \& \& \& 13,266 \& 15,098 \& \\
\hline 8/14/2019 \& TRUE \& TRUE \& FALSE \& 3.46 \& 8.23 \& 6.03 \& 57\% \& 42\% \& 73\% \& \& 1.36 \& 5.71 \& 5.78 \& 628.90 \& 189.00 \& 0.30 \& \& 31,628 \& 9,505 \& \& \& 15,561 \& 14,399 \& \& 31,628 \& 9,505 \& \& 15,561 \& 14,399 \& \\
\hline 8/15/2019 \& TRUE \& TRUE \& FALSE \& 3.57 \& 8.89 \& 6.03 \& 59\% \& 40\% \& 68\% \& \& 1.47 \& 5.72 \& 5.81 \& 295.80 \& 240.00 \& 0.81 \& \& 14,876 \& 12,070 \& \& \& 15,485 \& 14,140 \& \& 14,876 \& 12,070 \& \& 15,485 \& 14,140 \& \\
\hline 8/16/2019 \& TRUE \& TRUE \& FALSE \& 3.51 \& 8.01 \& 5.86 \& 60\% \& 44\% \& 73\% \& \& 1.37 \& 5.72 \& 5.81 \& \& \& \& \& \& \& \& \& 15,485 \& 14,140 \& \& \& \& \& 15,485 \& 14,140 \& \\
\hline 8/17/2019 \& TRUE \& TRUE \& FALSE \& 3.40 \& 7.80 \& 5.78 \& 59\% \& 44\% \& 74\% \& \& 1.35 \& 5.72 \& 5.84 \& \& \& \& \& \& \& \& \& 15,827 \& 14,659 \& \& \& \& \& 15,827 \& 14,659 \& \\
\hline 8/18/2019 \& TRUE \& TRUE \& FALSE \& 3.28 \& 8.22 \& 5.88 \& 55\% \& 40\% \& 72\% \& \& 1.40 \& 5.73 \& 5.87 \& \& \& \& \& \& \& \& \& 15,827 \& 14,659 \& \& \& \& \& 15,827 \& 14,659 \& \\
\hline 8/19/2019 \& TRUE \& TRUE \& FALSE \& 3.34 \& 11.04 \& 6.20 \& 54\% \& 30\% \& 56\% \& AvgMax \& 1.78 \& 5.72 \& 5.90 \& \& \& \& \& \& \& \& \& 16,289 \& 14,964 \& \& \& \& \& 16,289 \& 14,964 \& \\
\hline 8/200/2019 \& TRUE \& TRUE \& FALSE \& 3.40
3 \& 8.35 \& 6.13 \& 55\% \& \({ }^{41 \%}\) \& 73\% \& \& 1.36 \& 5.74
577 \& 5.95 \& \& \& \& \& \& \& \& \& 16,289 \& 14,964 \& \& \& \& \& 16,289 \& 14,964 \& \\
\hline 8/21/2019 \& TRUE \& TRUE \& FALSE \& 3.53 \& 8.62 \& 6.29 \& 55\% \& 41\% \& 73\% \& \& 1.37 \& 5.77 \& 6.00 \& 3222.20 \& 214.00 \& 0.66 \& \& 16,902 \& 11,226 \& \& \& 16,366 \& 14,497 \& \& 16,902 \& 11,226 \& \& 16,366 \& 14,497 \& \\
\hline 8/22/2019 \& TRUE \& TRUE \& FALSE \& 3.40 \& 8.89 \& 6.18 \& 55\% \& 38\% \& 70\% \& \& 1.44 \& 5.78 \& 6.02 \& 317.20 \& 231.00 \& 0.73 \& \& 16,349 \& 11,906 \& \& \& 16,364 \& 14,209 \& \& 16,349 \& 11,906 \& \& 16,364 \& 14,209 \& \\
\hline 8/23/2019 \& TRUE \& TRUE \& FALSE \& 3.56 \& 8.65 \& 6.19 \& 58\% \& 41\% \& 72\% \& \& 1.40 \& 5.80 \& 6.04 \& \& \& \& \& \& \& \& \& 16,364 \& 14,209 \& \& \& \& \& 16,364 \& 14,209 \& \\
\hline \(8 / 24 / 2019\)
\(8 / 25 / 219\) \& \({ }_{\text {TRUE }}^{\text {TRUE }}\) \& \({ }_{\text {TRUE }}^{\text {TRUE }}\) \& FALSE \& \begin{tabular}{l}
3.35 \\
3.30 \\
\hline
\end{tabular} \& 8.62
8.75 \& \({ }_{6}^{6.05}\) \& 55\% \& 39\% \& 70\% \& \& 1.42 \& 5.81
588 \& 6.07 \& \& \& \& \& \& \& \& \& 16,864 \& 14,465 \& \& \& \& \& 16,864
16864 \& 14,465 \& \\
\hline 8/25/2019 \& TRUE \& TRUE \& FALSE \& 3.30 \& 8.75 \& 6.15 \& 54\% \& 38\% \& 70\% \& \& 1.42 \& 5.82 \& 6.12 \& \& \& \& \& \& \& \& \& 16,864 \& 14,465 \& \& \& \& \& 16,864 \& 14,465 \& \\
\hline \(8 / 26 / 2019\)
\(8 / 27 / 2019\) \& TRUE \& \({ }_{\text {TRUE }}^{\text {TRUE }}\) \& FALSE \& \(\begin{array}{r}3.37 \\ 3.48 \\ \hline\end{array}\) \& \({ }_{9}^{9.01}\) \& 6.23
6.24 \& 54\% \& \(37 \%\)
\(38 \%\)

38\% \& 69\% \& \& 1.45
1.46 \& 5.84
5
58 \& 6.17
6.18 \& \& \& \& \& \& \& \& \& 16,864
16864 \& 14,465 \& \& \& \& \& 16,864
16864 \& 14,465
14,465 \& <br>
\hline 8/27/2019 \& FALSE \& TRUE \& FALSE \& 3.48 \& 9.08 \& 6.24 \& 56\% \& 38\% \& 69\% \& \& 1.46
1.45 \& 5.86
5.89 \& 6.18 \& \& \& \& \& \& \& \& \& 16,864 \& 14,465 \& \& \& \& \& 16,864 \& 14,465 \& <br>
\hline $8 / 28 / 2019$

$8 / 29 / 2019$ \& FALSE \& FALSE \& FALSE \& | 3.28 |
| :--- |
| 3.45 | \& 9.09 \& 6.26

6.34 \& 52\% \& $36 \%$

$38 \%$ \& \& \& $$
1.45
$$ \& 5.89

5
591 \& 6.20 \& \& \& \& \& \& \& \& \& 16,864 \& 14,465
13780 \& \& \& \& \& 16,864
16749 \& 14,465
13780 \& <br>

\hline 8/29/2019 \& FALLE \& FALLE \& FALSE \& | 3.45 |
| :--- |
| 3.50 | \& 9.12

8.83 \& 6.34

6.23 \& 54\% \& 38\% \& $$
\begin{aligned}
& 70 \% \\
& 71 \%
\end{aligned}
$$ \& \& \[

$$
\begin{aligned}
& 1.44 \\
& 1.42 \\
& \hline
\end{aligned}
$$
\] \& 5.91

5.93 \& 6.21
6.21 \& 299.50 \& 157.00 \& 0.52 \& \& 15,836 \& 8,301 \& \& \& 16,749
16,749 \& 13,780
13,780 \& \& 15,836 \& 8,301 \& \& 16,749
16,749 \& 13,780
13,780 \& <br>
\hline 8/31/2019 \& FALSE \& FALSE \& FALSE \& 3.46 \& 8.49 \& 5.92 \& 58\% \& 41\% \& 70\% \& \& 1.43 \& 5.93 \& 6.18 \& \& \& \& \& \& \& \& \& 16,749 \& 13,780 \& \& \& \& \& 16,749 \& 13,780 \& <br>
\hline 9/1/2019 \& FALSE \& FALSE \& FALSE \& 3.32 \& 8.16 \& 5.69 \& 58\% \& 41\% \& 70\% \& \& 1.43 \& 5.93 \& 6.13 \& \& \& \& \& \& \& \& \& 17,748 \& 13,560 \& \& \& \& \& 17,748 \& 13,560 \& <br>
\hline 9/2/2019 \& FALSE \& FALSE \& FALSE \& 3.37 \& 8.94 \& 6.11 \& 55\% \& 38\% \& 68\% \& \& 1.46 \& 5.94 \& 6.13 \& \& \& \& \& \& \& \& \& 16,402 \& 12,908 \& \& \& \& \& 16,402 \& 12,908 \& <br>
\hline 9/3/2019 \& FALSE \& FALSE \& FALSE \& 3.35 \& 9.17 \& 6.30 \& 53\% \& 37\% \& 69\% \& \& 1.46 \& 5.97 \& 6.14 \& \& \& \& \& \& \& \& \& 16,402 \& 12,908 \& \& \& \& \& 16,402 \& 12,908 \& <br>
\hline 9/4/2019 \& FALSE \& FALSE \& TRUE \& 3.55 \& 9.09 \& 6.38 \& 56\% \& 39\% \& 70\% \& \& 1.42 \& 6.00 \& 6.15 \& 333.20 \& 246.00 \& 0.74 \& \& 17,729 \& 13,089 \& \& \& 16,568 \& 12,930 \& \& 17,729 \& 13,089 \& \& 16,568 \& 12,930 \& <br>
\hline
\end{tabular}

| Date | Butte Break? | $\begin{gathered} \text { csu } \\ \text { Break? } \end{gathered}$ | Precip? | $\underset{\substack{\text { Minfluent } \\ \text { Flow, } \text { mgd }}}{\text { In }}$ | $\begin{gathered} \text { Max } \\ \text { Influent } \\ \text { Flow, } \mathrm{mgd} \end{gathered}$ | $\begin{gathered} \text { Avg } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | Min \% of | Min \% of | Avg \% of | $\begin{aligned} & \text { Flow } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | $\begin{aligned} & \text { Diurnal } \\ & \text { Peak } \\ & \text { Factor } \\ & \text { (DPF) } \end{aligned}$ | $\begin{aligned} & \text { 30-d Avg } \\ & \text { of Avg } \end{aligned}$ Flow, mgd | 7-d Avg of Avg Flow, mgd | Influent mg/L | $\begin{aligned} & \text { Influent } \\ & \text { BoD } \\ & \text { Conc., } \\ & \text { mg/L } \end{aligned}$ | B0D/Tss | Influent NH3-N Conc., mg/L | Avg linf ASS Load, ppd | Avg Inf BOD Load ppd | Avg $\operatorname{lnf}$ NH3 Load, ppd | $\begin{aligned} & \text { Load } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | 30-d Avg of TSS Load, ppd | 30-d Avg of BOD Load, ppd | 30-d Avg of NH3-N Load, ppd | non-SN TSS Load, ppd | non-SN BOD Load, ppd | non-SN NH3 Load, ppd | $\begin{gathered} \text { 30-d Avg } \\ \text { of non-SN } \\ \text { TSS Load, } \\ \text { ppd } \end{gathered}$ | 30-d Avg of non-SN BOD Load, ppd | $\begin{gathered} \text { 30-d Avg } \\ \text { of non-SN } \\ \text { NH3-N } \\ \text { Load, ppd } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 9/5/2019 | FALSE | FALSE | FALSE | 3.46 | 9.35 | 6.26 | 55\% | 37\% | 67\% |  | 1.49 | 6.02 | 6.15 | 289.00 | 144.00 | 0.50 |  | 15,088 | 7,518 |  |  | 16,403 | 12,329 |  | 15,088 | 7,518 |  | 16,403 | 12,329 |  |
| 9/6/2019 | false | FALSE | FALSE | 3.36 | 8.73 | 6.21 | 54\% | 38\% | 71\% |  | 1.41 | 6.03 | 6.14 |  |  |  |  |  |  |  |  | 16,403 | 12,329 |  |  |  |  | 16,403 | 12,329 |  |
| 9/7/2019 | FALSE | FALSE | FALSE | 3.47 | 8.87 | 6.22 | 56\% | 39\% | 70\% |  | 1.43 | 6.05 | 6.14 |  |  |  |  |  |  |  |  | 17,691 | 11,442 |  |  |  |  | 17,691 | 11,442 |  |
| 9/8/2019 | false | FALSE | FALSE | 3.21 | 9.05 | 6.18 | 52\% | 35\% | 68\% |  | 1.46 | 6.06 | 6.17 |  |  |  |  |  |  |  |  | 18,344 | 10,517 |  |  |  |  | 18,344 | 10,517 |  |
| 9/9/2019 | FALSE | FALSE | FALSE | 3.30 | 8.98 | 6.27 | 53\% | 37\% | 70\% |  | 1.43 | 6.08 | 6.24 |  |  |  |  |  |  |  |  | 18,344 | 10,517 |  |  |  |  | 18,344 | 10,517 |  |
| 9/10/2019 | false | FALSE | FALSE | 3.53 | 9.33 | 6.33 | 56\% | 38\% | 68\% |  | 1.47 | 6.10 | 6.27 |  |  |  |  |  |  |  |  | 18,344 | 10,517 |  |  |  |  | 18,344 | 10,517 |  |
| 9/11/2019 | FALSE | FALSE | FALSE | 3.36 | 8.93 | 6.23 | 54\% | 38\% | 70\% |  | 1.43 | 6.12 | 6.26 | 276.00 | 289.00 | 1.05 |  | 14,340 | 15,016 |  |  | 17,844 | 11,079 |  | 14,340 | 15,016 |  | 17,844 | 11,079 |  |
| 9/12/2019 | FALSE | FALSE | FALSE | 3.35 | 8.79 | 6.27 | 53\% | 38\% | 71\% |  | 1.40 | 6.14 | 6.25 | 208.70 | 323.00 | 1.55 |  | 10,913 | 16,890 |  |  | 17,074 | 11,725 |  | 10,913 | 16,890 |  | 17,074 | 11,725 |  |
| 9/13/2019 | FALSE | FALSE | FALSE | 3.48 | 8.79 | 6.30 | 55\% | 40\% | 72\% |  | 1.40 | 6.15 | 6.25 |  |  |  |  |  |  |  |  | 17,074 | ${ }^{11,725}$ |  |  |  |  | 17,074 | 11,725 |  |
| 9/14/2019 | FALSE | FALSE | FALSE | 3.49 | 8.73 | 6.07 | 57\% | 40\% | 70\% |  | 1.44 | 6.15 | 6.23 |  |  |  |  |  |  |  |  | 15,254 | 12,002 |  |  |  |  | 15,254 | 12,002 |  |
| 9/15/2019 | FALSE | FALSE | FALSE | 3.33 | 8.60 | 6.15 | 54\% | 39\% | 72\% |  | 1.40 | 6.16 | 6.23 |  |  |  |  |  |  |  |  | 15,308 | 11,992 |  |  |  |  | 15,308 | 11,992 |  |
| 9/16/2019 | FALSE | FALSE | true | 3.41 | 8.97 | 6.34 | 54\% | 38\% | 71\% |  | 1.41 | 6.17 | 6.25 |  |  |  |  |  |  |  |  | 15,308 | 11,992 |  |  |  |  | 15,308 | 11,992 |  |
| 9/17/2019 | FALSE | FALSE | FALSE | 3.40 | 8.90 | 6.30 | 54\% | 38\% | 71\% |  | 1.41 | 6.19 | 6.25 |  |  |  |  |  |  |  |  | 15,308 | 11,992 |  |  |  |  | 15,308 | 11,992 |  |
| 9/18/2019 | FALSE | FALSE | true | 3.45 | 9.12 | 6.48 | 53\% | 38\% | 71\% |  | 1.41 | 6.21 | 6.27 | 263.60 | 229.00 | 0.87 |  | 14,246 | 12,376 |  |  | 15,176 | 12,040 |  | 14,246 | 12,376 |  | 15,176 | 12,040 |  |
| 9/19/2019 | FALSE | FALSE | TRUE | 3.40 | 9.19 | 6.40 | 53\% | 37\% | 70\% |  | 1.44 | 6.22 | 6.29 | 250.00 | 187.00 | 0.75 |  | 13,344 | 9,981 |  |  | 14,972 | 11,812 |  | 13,344 | 9,981 |  | 14,972 | 11,812 |  |
| 9/20/2019 | FALSE | FALSE | FALSE | 3.38 | 9.02 | 6.30 | 54\% | 37\% | 70\% |  | 1.43 | 6.22 | 6.29 |  |  |  |  |  |  |  |  | 14,972 | 11,812 |  |  |  |  | 14,972 | 11,812 |  |
| 9/21/2019 | FALSE | FALSE | FALSE | 3.35 | 8.34 | 6.09 | 55\% | 40\% | 73\% |  | 1.37 | 6.22 | 6.27 |  |  |  |  |  |  |  |  | 14,731 | 11,885 |  |  |  |  | 14,731 | 11,885 |  |
| 9/22/2019 | FALSE | FALSE | FALSE | 3.38 | 8.79 | 6.18 | 55\% | 38\% | 70\% |  | 1.42 | 6.22 | 6.28 |  |  |  |  |  |  |  |  | 14,500 | 11,882 |  |  |  |  | 14,500 | 11,882 |  |
| 9/23/2019 | FALSE | FALSE | FALSE | 3.35 | 9.21 | 6.27 | 53\% | 36\% | 68\% |  | 1.47 | 6.22 | 6.30 |  |  |  |  |  |  |  |  | 14,500 | 11,882 |  |  |  |  | 14,500 | 11,882 |  |
| 9/24/2019 | FALSE | FALSE | FALSE | 3.24 | 8.93 | 6.20 | 52\% | 36\% | 69\% |  | 1.44 | 6.22 | 6.28 |  |  |  |  |  |  |  |  | 14,500 | 11,882 |  |  |  |  | 14,500 | 11,882 |  |
| 9/25/2019 | FALSE | FALSE | FALSE | 3.45 | 9.19 | 6.35 | 54\% | 38\% | 69\% |  | 1.45 | 6.23 | 6.28 |  |  |  |  |  |  |  |  | 14,500 | 11,882 |  |  |  |  | 14,500 | 11,882 |  |
| 9/26/2019 | FALSE | FALSE | FALSE | 3.44 | 9.02 | 6.27 | 55\% | 38\% | 70\% |  | 1.44 | 6.23 | 6.26 | 273.90 | 269.00 | 0.98 |  | 14,323 | 14,066 |  |  | 14,478 | 12,155 |  | 14,323 | 14,066 |  | 14,478 | 12,155 |  |
| 9/27/2019 | FALSE | FALSE | FALSE | 3.44 | 8.96 | 6.37 | 54\% | 38\% | 71\% |  | 1.41 | 6.23 | 6.25 |  |  |  |  |  |  |  |  | 14,478 | 12,155 |  |  |  |  | 14,478 | 12,155 |  |
| 9/28/2019 | FALSE | FALSE | FALSE | 3.38 | 8.41 | 6.04 | 56\% | 40\% | 72\% |  | 1.39 | 6.23 | 6.22 |  |  |  |  |  |  |  |  | 14,478 | 12,155 |  |  |  |  | 14,478 | 12,155 |  |
| 9/29/2019 | FALSE | FALSE | TRUE | 3.30 | 9.01 | 6.31 | 52\% | 37\% | 70\% |  | 1.43 | 6.23 | 6.25 |  |  |  |  |  |  |  |  | 14,283 | 12,705 |  |  |  |  | 14,283 | 12,705 |  |
| 9/30/2019 | FALSE | FALSE | FALSE FALSE | 3.27 <br> 3.30 | $\begin{aligned} & 8.95 \\ & 9.90 \end{aligned}$ | $6.37$ | $\begin{aligned} & 51 \% \\ & 55 \% \end{aligned}$ | 37\% | 71\% |  | $1.41$ | $6.23$ | $6.27$ |  |  |  |  |  |  |  |  | $\begin{aligned} & 14,283 \\ & 10283 \end{aligned}$ | $\begin{aligned} & 12,705 \\ & 12,705 \end{aligned}$ |  |  |  |  | $\begin{aligned} & 14,283 \\ & 10283 \end{aligned}$ | $\begin{aligned} & 12,705 \\ & 12,705 \end{aligned}$ |  |
| 10/2/2019 | FALSE | FALSE | FALSE | 3.48 3.48 | ${ }^{9.43}$ | ${ }_{6}^{6.32}$ | 55\% | 37\% | 67\% |  | 1.46 1.49 | 6.23 6.26 | 6.28 6.29 | 317.60 | 246.00 | 0.77 |  | 16,740 | 12,966 |  |  | 14,591 | 12,738 |  | 16,740 | 12,966 |  | 14,591 | 12,738 |  |
| 10/3/2019 | false | FALSE | FALSE | 3.37 | 9.18 | 6.29 | 54\% | 37\% | 69\% |  | 1.46 | 6.27 | 6.28 | 256.00 | 297.00 | 1.16 |  | 13,429 | 15,580 |  |  | 14,462 | 13,054 |  | 13,429 | 15,580 |  | 14,462 | 13,054 |  |
| 10/4/2019 | false | FALSE | FALSE | 3.48 | 9.02 | 6.29 | 55\% | 39\% | 70\% |  | 1.43 | 6.27 | 6.29 |  |  |  |  |  |  |  |  | 14,462 | 13,054 |  |  |  |  | 14,462 | 13,054 |  |
| 10/5/2019 | FALSE | FALSE | FALSE | 3.37 | 8.89 | 6.10 | 55\% | 38\% | 69\% |  | 1.46 | 6.26 | 6.25 |  |  |  |  |  |  |  |  | 14,053 | 13,049 |  |  |  |  | 14,053 | 13,049 |  |
| 10/6/2019 | false | FALSE | FALSE | 3.19 | 8.84 | 6.12 | 52\% | 36\% | 69\% |  | 1.44 | 6.26 | 6.26 |  |  |  |  |  |  |  |  | 13,905 | 13,839 |  |  |  |  | 13,905 | 13,839 |  |
| 10/7/2019 | FALSE | FALSE | FALSE | 3.28 | 8.94 | 6.45 | 51\% | 37\% | 72\% |  | 1.39 | 6.26 | 6.28 |  |  |  |  |  |  |  |  | 13,905 | 13,839 |  |  |  |  | 13,905 | 13,839 |  |
| 10/8/2019 | FALSE | FALSE | FALSE | 3.39 | 9.23 | 6.30 | 54\% | 37\% | 68\% |  | 1.47 | 6.27 | 6.27 |  |  |  |  |  |  |  |  | 13,905 | 13,839 |  |  |  |  | 13,905 | 13,839 |  |
| 10/9/2019 | FALSE | FALSE | FALSE | 3.38 | 9.23 | 6.21 | 54\% | 37\% | 67\% |  | 1.49 | 6.27 | 6.26 | 256.30 | 283.00 | 1.10 |  | 13,274 | 14,657 |  |  | 13,826 | 13,942 |  | 13,274 | 14,657 |  | 13,826 | 13,942 |  |
| 10/10/2019 | false | FALSE | FALSE | 3.34 | 8.64 | 6.26 | 53\% | 39\% | 72\% |  | 1.38 | 6.27 | 6.25 | 271.00 | 336.00 | 1.24 |  | 14,148 | 17,542 |  |  | 13,862 | 14,342 |  | 14,148 | 17,542 |  | 13,862 | 14,342 |  |
| 10/11/2019 | FALSE | FALSE | FALSE | 3.30 | 8.85 | 6.15 | 54\% | 37\% | 69\% |  | 1.44 | 6.26 | 6.24 |  |  |  |  |  |  |  |  | 13,862 | 14,342 |  |  |  |  | 13,862 | 14,342 |  |
| 10/12/2019 | FALSE | FALSE | FALSE | 3.35 | 8.86 | 6.11 | 55\% | 38\% | 69\% |  | 1.45 | 6.26 | 6.21 |  |  |  |  |  |  |  |  | 13,802 | 14,257 |  |  |  |  | 13,802 | 14,257 |  |
| 10/13/2019 | FALSE | FALSE | FALSE | 3.27 | 9.19 | 6.18 | 53\% | 36\% | 67\% |  | 1.49 | 6.25 | 6.22 |  |  |  |  |  |  |  |  | 14,215 | 13,881 |  |  |  |  | 14,215 | 13,881 |  |
| 10/14/2019 | FALSE | FALSE | FALSE | 3.36 | 8.99 | 6.30 | 53\% | 37\% | 70\% |  | 1.43 | 6.25 | 6.25 |  |  |  |  |  |  |  |  | 14,215 | 13,881 |  |  |  |  | 14,215 | 13,881 |  |
| 10/15/2019 | FALSE | FALSE | FALSE | 3.29 | 9.11 | 6.16 | 53\% | 36\% | 68\% |  | 1.48 | 6.26 | 6.21 |  |  |  |  |  |  |  |  | 14,215 | 13,881 |  |  |  |  | 14,215 | 13,881 |  |
| 10/16/2019 | FALSE | FAASE | TRUE | 3.32 | 9.04 | 6.29 | 53\% | 37\% | 70\% |  | 1.44 | 6.26 | 6.21 | 274.50 | 322.00 | 1.17 |  | 14,400 | 16,892 |  |  | 14,238 | 14,258 |  | 14,400 | 16,892 |  | 14,238 | 14,258 |  |
| 10/17/2019 | FALSE | FALSE | FALSE | 3.38 | 9.13 | 6.31 | 54\% | 37\% | 69\% |  | 1.45 | 6.26 | 6.22 | 307.00 | 366.00 | 1.19 |  | 16,156 | 19,261 |  |  | 14,451 | 14,814 |  | 16,156 | 19,261 |  | 14,451 | 14,814 |  |
| 10/18/2019 | FALSE | FALSE | FALSE | 3.36 | 8.77 | 6.25 | 54\% | 38\% | 71\% |  | 1.40 | 6.26 | 6.22 |  |  |  |  |  |  |  |  | 14,451 | 14,814 |  |  |  |  | 14,451 | 14,814 |  |
| 10/19/2019 | FALSE | FALSE | FALSE | 3.33 | 8.74 | 6.16 | 54\% | 38\% | 70\% |  | 1.42 | 6.25 | 6.22 |  |  |  |  |  |  |  |  | 14,477 | 15,118 |  |  |  |  | 14,477 | 15,118 |  |
| 10/20/2019 | FALSE | FALSE | FALSE | 3.27 | 8.87 | 6.20 | 53\% | 37\% | 70\% |  | 1.43 | 6.24 | 6.23 |  |  |  |  |  |  |  |  | 14,639 | 15,852 |  |  |  |  | 14,639 | 15,852 |  |
| 10/21/2019 | FALSE | FALSE | FALSE | 3.23 3 | 8.69 | 6.25 | 52\% | 37\% | ${ }^{72 \%}$ |  | 1.39 | 6.24 | 6.24 |  |  |  |  |  |  |  |  | 14,639 | 15,852 |  |  |  |  | 14,639 | 15,852 |  |
| 10/22/2019 | FALSE | FALSE | FALSE | 3.23 | 9.18 | 6.22 | 52\% | 35\% | 68\% |  | 1.48 | 6.24 | 6.23 | 323.20 |  |  |  | 16,766 |  |  |  | 14,905 | 15,852 |  | 16,443 |  |  | 14,864 | 15,852 |  |
| 10/23/2019 | ${ }_{\text {FALSE }}$ | FALSE | ${ }_{\text {FALSE }}$ | 3.45 | 8.93 | 6.27 | 55\% | 39\% | 70\% |  | 1.42 | 6.25 | 6.24 |  | 122.00 |  |  |  | 6,380 |  |  | 14,905 | 14,668 |  |  | 6,380 |  | 14,864 | 14,668 |  |
| 10/24/2019 | FALSE | FALSE | FALSE | 3.40 | 9.00 | 6.28 | 54\% | 38\% | 70\% |  | 1.43 | 6.25 | 6.24 | 281.10 | 248.00 | 0.88 |  | 14,723 | 12,989 |  |  | 14,884 | 14,481 |  | 14,723 | 12,989 |  | 14,849 | 14,481 |  |
| 10/25/2019 | ${ }_{\text {FALSE }}$ | FALSE | ${ }^{\text {FALSE }}$ | 3.31 3.41 | 8.89 | 6.26 | 53\% | 37\% | 70\% |  | 1.42 | 6.25 | 6.24 |  |  |  |  |  |  |  |  | 14,884 | 14,481 |  |  |  |  | 14,849 | 14,481 |  |
| 10/26/2019 | FALSE | FALSE | FALSE | 3.44 | 9.07 | 6.19 | 56\% | 38\% | 68\% |  | 1.47 | 6.24 | 6.23 |  |  |  |  |  |  |  |  | 14,884 | 14,481 |  |  |  |  | 14,849 | 14,481 |  |
| 10/27/2019 | FALSE | FALSE | FALSE | 3.30 | 9.08 | 6.23 | 53\% | 36\% | 69\% |  | 1.46 | 6.24 | 6.24 |  |  |  |  |  |  |  |  | 14,955 | 14,533 |  |  |  |  | 14,914 | 14,533 |  |
| $10 / 28 / 2019$ <br> $10 / 29 / 2019$ | FALSE | FALSE | ${ }_{\text {FALSE }}$ | 3.25 <br> 3.31 | 9.14 9.05 | 6.41 6.36 | 51\% | $36 \%$ $37 \%$ | 70\%\% |  | 1.43 1.42 | 6.24 6.25 | 6.26 6.28 |  |  |  |  |  |  |  |  | 14,955 14,955 | 14,533 14,533 |  |  |  |  | 14,914 14,914 | 14,533 14,533 |  |
| 10/29/2019 10/30/2019 | FALSE | FALSE | FALSE | 3.31 3.28 | 9.05 9.07 | 6.36 6.43 | 52\% | $37 \%$ $36 \%$ | 70\% |  | 1.42 1.41 | 6.25 6.26 | 6.28 6.30 | 274.50 | 227.00 | 0.83 |  | 14,720 | 12,173 |  |  | 14,955 14,929 | 14,533 14,271 |  | 14,720 | 12,173 |  | 14,914 14,893 | 14,533 14,271 |  |
| 10/31/2019 | FALSE | FALSE | FALSE | 3.35 3.35 | 9.07 | 6.26 | 54\% | 37\% | 69\% |  | 1.45 | 6.26 | 6.30 | 308.60 | 217.00 | 0.70 |  | 16,112 | 11,329 |  |  | 15,047 | 13,977 |  | 16,112 | 111,329 |  | 15,015 | 13,977 |  |
| 11/1/2019 | FALSE | FALSE | FALSE | 3.38 | 8.04 | 6.27 | 54\% | 42\% | 78\% |  | 1.28 | 6.25 | 6.30 |  |  |  |  |  |  |  |  | 15,047 | 13,977 |  |  |  |  | 15,015 | 13,977 |  |
| 11/2/2019 | FALSE | FALSE | FALSE | 3.40 | 8.99 | 6.24 | 54\% | 38\% | 69\% |  | 1.44 | 6.25 | 6.30 |  |  |  |  |  |  |  |  | 14,859 | 14,089 |  |  |  |  | 14,823 | 14,089 |  |
| 11/3/2019 | FALSE | FALSE | ${ }^{\text {FALSE }}$ | 3.29 3 3 | 9.19 | ${ }_{6}^{6.34}$ | 52\% | 36\% | 69\% |  | 1.45 | 6.25 6.25 | ${ }_{6}^{632}$ |  |  |  |  |  |  |  |  | 15,037 | 13,903 |  |  |  |  | 14,997 | 13,903 |  |
| $\begin{aligned} & 11 / 4 / 2019 \\ & 11 / 5 / 2019 \end{aligned}$ | ${ }^{\text {FAALSE }}$ | FALSE | FALLE FALSE | 3.28 3.32 | $\begin{gathered} 9.41 \\ 9.24 \end{gathered}$ | $\begin{aligned} & 6.33 \\ & 6.24 \end{aligned}$ | $\begin{aligned} & 52 \% \\ & 53 \% \end{aligned}$ | $\begin{aligned} & 35 \% \\ & 36 \% \\ & \hline \end{aligned}$ | 67\% |  | 1.49 1.48 | $\begin{aligned} & 6.25 \\ & 6.25 \end{aligned}$ | $\begin{aligned} & 6.33 \\ & 6.31 \end{aligned}$ |  |  |  |  |  |  |  |  | 15,037 15,037 | 13,903 13,903 |  |  |  |  | 14,997 14 | 13,903 13,903 |  |
| 11/6/2019 | FALSE | FALSE | FALSE | 3.36 | 9.22 | 6.36 | 53\% | 36\% | 69\% |  | 1.45 | 6.27 | 6.31 |  |  |  |  |  |  |  |  | 15,037 | 13,903 |  |  |  |  | 14,997 | 13,903 |  |


| Date | $\begin{aligned} & \text { Butte } \\ & \text { Break? } \end{aligned}$ | $\begin{gathered} \text { csu } \\ \text { Break? } \end{gathered}$ | Precip? |  | $\begin{gathered} \text { Max } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | $\begin{gathered} \text { Avg } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | $\underset{\text { Avg }}{\operatorname{Min} \% \text { of }}$ | $\mathrm{Min}_{\mathrm{Max}} \% \text { of }$ | $\begin{aligned} & \text { Avg \% of } \\ & \text { Max } \end{aligned}$ | $\begin{aligned} & \text { Flow } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | Diurnal <br> Peak <br> Factor <br> (DPF) | 30-d Avg of Avg Flow, mgd | 7-d Avg of Avg Flow, mgd | Influent Tss conc., $\mathrm{mg} / \mathrm{L}$ mg/L | Influent BOD Conc., mg/L | Bod/TsS Ratio | Influent NH3-N Conc., mg/L | Avg linf TSS Load, ppd | Avg Inf BOD Load, ppd | Avg Inf NH3 Load, ppd | $\begin{gathered} \text { Load } \\ \text { Outlier } \\ \text { Type } \end{gathered}$ | 30-d Avg Load, ppd | 30-d Avg of BOD Load, ppd | 30-d Avg of NH3-N Load, ppd | non-SN TSS Load, ppd | non-SN ppd | non-SN NH3 Load, ppd | 30-d Avg <br> of non-SN TSS Load, ppd | 30-d Avg <br> of non-SN BOD Load, ppd | $\begin{aligned} & \text { 30-d Avg } \\ & \text { of non-SN } \\ & \text { NH3-- } \\ & \text { Load, ppd } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 11/7/2019 | FALSE | FALSE | FALSE | 3.38 | 9.14 | 6.40 | 53\% | 37\% | 70\% |  | 1.43 | 6.27 | 6.31 |  |  |  |  |  |  |  |  | 15,037 | 13,903 |  |  |  |  | 14,997 | 13,903 |  |
| 11/8/2019 | FALSE | FALSE | FALSE | 3.41 | 9.00 | 6.35 | 54\% | 38\% | 71\% |  | 1.42 | 6.27 | 6.32 | 260.10 | 295.00 | 1.13 |  | 13,775 | 15,623 |  |  | 14,897 | 14,094 |  | 13,775 | 15,623 |  | 14,861 | 14,094 |  |
| 11/9/2019 | FALSE | FALSE | FALSE | 3.39 | 8.98 | 6.17 | 55\% | 38\% | 69\% |  | 1.46 | 6.27 | 6.30 |  |  |  |  |  |  |  |  | 15,100 | 14,024 |  |  |  |  | 15,060 | 14,024 |  |
| 11/10/2019 | FALSE | FALSE | FALSE | 3.30 | 8.67 | 6.00 | 55\% | 38\% | 69\% |  | 1.45 | 6.26 | 6.27 |  |  |  |  |  |  |  |  | 15,236 | 13,521 |  |  |  |  | 15,190 | 13,521 |  |
| 11/11/2019 | FALSE | FALSE | FALSE | 3.35 | 9.31 | 6.40 | 52\% | 36\% | 69\% |  | 1.45 | 6.27 | 6.28 |  |  |  |  |  |  |  |  | 15,236 | 13,521 |  |  |  |  | 15,190 | 13,521 |  |
| 11/12/2019 | FALSE | FALSE | FALSE | 3.36 | 9.19 | 6.36 | 53\% | 37\% | 69\% |  | 1.44 | 6.27 | 6.29 |  |  |  |  |  |  |  |  | 15,236 | 13,521 |  |  |  |  | 15,190 | 13,521 |  |
| 11/13/2019 | FALSE | FALSE | FALSE | 3.37 | 9.32 | 6.36 | 53\% | 36\% | 68\% |  | 1.47 | 6.28 | 6.30 | 272.10 | 296.00 | 1.09 |  | 14,433 | 15,701 |  |  | 15,135 | 13,793 |  | 14,433 | 15,701 |  | 15,095 | 13,793 |  |
| 11/14/2019 | FALSE | FALSE | FALSE | 3.40 | 9.24 | 6.37 | 53\% | 37\% | 69\% |  | 1.45 | 6.28 | 6.30 | 278.40 | 362.00 | 1.30 |  | 14,790 | 19,232 |  |  | 15,097 | 14,398 |  | 14,790 | 19,232 |  | 15,061 | 14,398 |  |
| 11/15/2019 | FALSE | FALSE | FALSE | 3.33 | 8.92 | 6.36 | 52\% | 37\% | 71\% |  | 1.40 | 6.29 | 6.30 |  |  |  |  |  |  |  |  | 15,097 | 14,398 |  |  |  |  | 15,061 | 14,398 |  |
| 11/16/2019 | FALSE | FALSE | FALSE | 3.43 | 9.50 | 6.36 | 54\% | 36\% | 67\% |  | 1.49 | 6.29 | 6.30 |  |  |  |  |  |  |  |  | 15,184 | 14,086 |  |  |  |  | 15,144 | 14,086 |  |
| 11/17/2019 | False | FALSE | FALSE | 3.32 | 9.31 | 6.38 | 52\% | 36\% | 69\% |  | 1.46 | 6.29 | 6.32 |  |  |  |  |  |  |  |  | 15,045 | 13,347 |  |  |  |  | 14,999 | 13,347 |  |
| 11/18/2019 | FALSE | FALSE | FALSE | 3.35 | 9.17 | 6.38 | 53\% | 37\% | 70\% |  | 1.44 | 6.30 | 6.37 |  |  |  |  |  |  |  |  | 15,045 | 13,347 |  |  |  |  | 14,999 | 13,347 |  |
| 11/19/2019 | FALSE | FALSE | FALSE | 3.37 | 9.14 | 6.34 | 53\% | 37\% | 69\% |  | 1.44 | 6.30 | 6.36 |  |  |  |  |  |  |  |  | 15,045 | 13,347 |  |  |  |  | 14,999 | 13,347 |  |
| 11/20/2019 | FALSE | FALSE | FALSE | 3.35 | 9.20 | 6.29 | 53\% | 36\% | 68\% |  | 1.46 | 6.31 | 6.36 |  |  |  |  |  |  |  |  | 15,045 | 13,347 |  |  |  |  | 14,999 | 13,347 |  |
| 11/21/2019 | true | FALSE | FALSE | 3.38 | 9.17 | 6.38 | 53\% | 37\% | 70\% |  | 1.44 | 6.31 | 6.36 | 286.60 |  |  |  | 15,250 |  |  |  | 15,071 | 13,347 |  | 15,250 |  |  | 15,031 | 13,347 |  |
| 11/22/2019 | true | TRUE | FALSE | 3.39 | 8.86 | 6.22 | 55\% | 38\% | 70\% |  | 1.42 | 6.31 | 6.34 | 241.10 | 260.00 | 1.08 |  | 12,507 | 13,487 |  |  | 14,539 | 13,364 |  | 12,507 | 13,487 |  | 14,539 | 13,364 |  |
| 11/23/2019 | true | TRUE | FALSE | 3.20 | 8.27 | 6.04 | 53\% | 39\% | 73\% |  | 1.37 | 6.30 | 6.30 |  |  |  |  |  |  |  |  | 14,539 | 14,362 |  |  |  |  | 14,539 | 14,362 |  |
| 11/24/2019 | true | TRUE | FALSE | 3.27 | 8.03 | 5.85 | 56\% | 41\% | 73\% |  | 1.37 | 6.29 | 6.24 |  |  |  |  |  |  |  |  | 14,512 | 14,591 |  |  |  |  | 14,512 | 14,591 |  |
| 11/25/2019 | true | TRUE | FALSE | 3.31 | 8.17 | 5.98 | 55\% | 41\% | 73\% |  | 1.37 | 6.28 | 6.19 |  |  |  |  |  |  |  |  | 14,512 | 14,591 |  |  |  |  | 14,512 | 14,591 |  |
| 11/26/2019 | TRUE | TRUE | TRUE | 3.33 | 9.07 | 6.26 | 53\% | 37\% | 69\% |  | 1.45 | 6.28 | 6.17 |  |  |  |  |  |  |  |  | 14,512 | 14,591 |  |  |  |  | 14,512 | 14,591 |  |
| 11/27/2019 | true | TRUE | FALSE | 3.54 | 8.85 | 6.39 | 55\% | 40\% | 72\% |  | 1.38 | 6.29 | 6.18 | 307.30 | 360.00 | 1.17 |  | 16,377 | 19,185 |  |  | 14,745 | 15,247 |  | 16,377 | 19,185 |  | 14,745 | 15,247 |  |
| 11/28/2019 | TRUE | TRUE | true | 3.34 | 8.31 | 5.79 | 58\% | 40\% | 70\% |  | 1.44 | 6.27 | 6.11 |  |  |  |  |  |  |  |  | 14,745 | 15,247 |  |  |  |  | 14,745 | 15,247 |  |
| 11/29/2019 | true | TRUE | FALSE | 3.31 | 7.45 | 5.53 | 60\% | 44\% | 74\% |  | 1.35 | 6.24 | 6.01 |  |  |  |  |  |  |  |  | 14,745 | 15,247 |  |  |  |  | 14,745 | 15,247 |  |
| 11/30/2019 | TRUE | TRUE | TRUE | 3.34 | 8.06 | 5.93 | 56\% | 41\% | 74\% |  | 1.36 | 6.22 | 5.97 |  |  |  |  |  |  |  |  | 14,749 | 15,760 |  |  |  |  | 14,749 | 15,760 |  |
| 12/1/2019 | TRUE | TRUE | TRUE | 4.14 | 11.67 | 7.76 | 53\% | 35\% | 66\% |  | 1.50 | 6.27 | 6.19 |  |  |  |  |  |  |  |  | 14,522 | 16,646 |  |  |  |  | 14,522 | 16,646 |  |
| 12/2/2019 | TRUE | TRUE | TRUE | 6.54 | 12.70 | 10.30 | 63\% | 51\% | 81\% |  | 1.23 | 6.40 | 6.74 |  |  |  |  |  |  |  |  | 14,522 | 16,646 |  |  |  |  | 14,522 | 16,646 |  |
| 12/3/2019 | FALSE | FALSE | FALSE | 5.61 | 11.46 | 8.48 | 66\% | 49\% | 74\% |  | 1.35 | 6.47 | 7.06 |  |  |  |  |  |  |  |  | 14,522 | 16,646 |  |  |  |  | 14,522 | 16,646 |  |
| 12/4/2019 | FALSE | FALSE | true | 4.46 | 10.78 | 7.57 | 59\% | 41\% | 70\% |  | 1.42 | 6.51 | 7.22 | 197.80 | 368.00 | 1.86 |  | 12,488 | 23,233 |  |  | 14,231 | 17,744 |  | 12,488 | 23,233 |  | 14,231 | 17,74 |  |
| 12/5/2019 | FALSE | FALSE | TRUE | 4.10 | 10.04 | 7.26 | 56\% | 41\% | 72\% |  | 1.38 | 6.54 | 7.33 | 220.00 | 362.00 | 1.65 |  | 13,321 | 21,919 |  |  | 14,117 | 18,340 |  | 13,321 | 21,919 |  | 14,117 | 18,340 |  |
| 12/6/2019 | FALSE | FALSE | TRUE | 3.99 | 9.85 | 7.04 | 57\% | 41\% | 71\% |  | 1.40 | 6.57 | 7.48 |  |  |  |  |  |  |  |  | 14,117 | 18,340 |  |  |  |  | 14,117 | 18,340 |  |
| 12/7/2019 | FALSE | FALSE | TRUE | 4.24 | 10.17 | 7.53 | 56\% | 42\% | 74\% |  | 1.35 | 6.61 | 7.73 |  |  |  |  |  |  |  |  | 14,117 | 18,340 |  |  |  |  | 14,117 | 18,340 |  |
| 12/8/2019 | FALSE | FALSE | TRUE | 4.15 | 10.37 | 7.48 | 55\% | 40\% | 72\% |  | 1.39 | 6.64 | 7.93 |  |  |  |  |  |  |  |  | 14,117 | 18,340 |  |  |  |  | 14,117 | 18,340 |  |
| 12/9/2019 | FALSE | FALSE | FALSE | 3.98 | 10.07 | 7.14 | 56\% | 40\% | 71\% |  | 1.41 | 6.67 | 7.85 |  |  |  |  |  |  |  |  | 14,166 | 18,793 |  |  |  |  | 14,166 | 18,793 |  |
| 12/10/2019 | FALSE | FALSE | TRUE | 3.81 | 9.84 | 6.98 | 55\% | 39\% | 71\% |  | 1.41 | 6.69 | 7.44 |  |  |  |  |  |  |  |  | 14,166 | 18,793 |  |  |  |  | 14,166 | 18,793 |  |
| 12/11/2019 | FALSE | FALSE | true | 3.91 | 10.72 | 7.26 | 54\% | 36\% | 68\% |  | 1.48 | 6.73 | 7.28 | 245.60 | 301.00 | 1.23 |  | 14,871 | 18,225 |  |  | 14,254 | 18,712 |  | 14,871 | 18,225 |  | 14,254 | 18,712 |  |
| 12/12/2019 | FALSE | FALSE | TRUE | 4.98 | 10.79 | 8.19 | 61\% | 46\% | 76\% |  | 1.32 | 6.79 | 7.36 | 239.80 | 297.00 | 1.24 |  | 16,379 | 20,286 |  |  | 14,491 | 18,909 |  | 16,379 | 20,286 |  | 14,491 | 18,909 |  |
| 12/13/2019 | FALSE | FALSE | TRUE | 4.41 | 10.23 | 7.57 | 58\% | 43\% | 74\% |  | 1.35 | 6.83 | 7.40 |  |  |  |  |  |  |  |  | 14,491 | 18,909 |  |  |  |  | 14,491 | 18,909 |  |
| 12/14/2019 | FALSE | FALSE | TRUE | 3.88 | 10.00 | 7.32 | 53\% | 39\% | 73\% |  | 1.37 | 6.86 | 7.43 |  |  |  |  |  |  |  |  | 14,498 | 19,367 |  |  |  |  | 14,498 | 19,367 |  |
| 12/15/2019 | FALSE | TRUE | FALSE | 3.93 | 10.37 | 7.32 | 54\% | 38\% | 71\% |  | 1.42 | 6.89 | 7.41 |  |  |  |  |  |  |  |  | 14,456 | 19,389 |  |  |  |  | 14,456 | 19,389 |  |
| 12/16/2019 | FALSE | TRUE | FALSE | 3.77 | 10.02 | 7.10 | 53\% | 38\% | 71\% |  | 1.41 | 6.92 | 7.36 |  |  |  |  |  |  |  |  | 14,456 | 19,389 |  |  |  |  | 14,456 | 19,389 |  |
| 12/17/2019 | FALSE | TRUE | FALSE | 3.60 | 9.83 | 6.99 | 52\% | 37\% | 71\% |  | 1.41 | 6.94 | 7.34 |  |  |  |  |  |  |  |  | 14,456 | 19,389 |  |  |  |  | 14,456 | 19,389 |  |
| 12/18/2019 | FALSE | True | True | 3.49 | 9.71 | 7.07 | 49\% | 36\% | 73\% |  | 1.37 | 6.96 | 7.35 | 255.60 | 198.00 | 0.77 |  | 15,071 | 11,675 |  |  | 14,533 | 18,287 |  | 14,805 | 11,564 |  | 14,500 | 18,271 |  |
| 12/19/2019 | ${ }_{\text {TRUE }}$ | ${ }_{\text {TRUE }}^{\text {TRUE }}$ | TRUE | 3.97 3 | 9.65 | 7.36 | 54\% | 41\% | 76\% |  | 1.31 | 6.99 | 7.37 |  |  |  |  |  |  |  |  | ${ }^{14,533}$ | 18,287 |  |  |  |  | 14,500 | 18,271 |  |
| 12/20/2019 | true | True | FALSE | 3.93 | 9.41 | 7.10 | 55\% | 42\% | 75\% |  | 1.33 | 7.02 | 7.23 |  |  |  |  |  |  |  |  | 14,533 | 18,287 18287 |  |  |  |  | 14,500 | 18,271 |  |
| 12/21/2019 | TRUE | ${ }_{\text {TRUE }}^{\text {TRUE }}$ | ${ }_{\text {TRUE }}^{\text {TRUE }}$ | 3.69 <br> 3 | 9.20 | 6.68 | 55\% | 40\% | 73\% |  | 1.38 | 7.03 | 7.12 |  |  |  |  |  |  |  |  | 14,533 | 18,287 |  |  |  |  | 14,500 | 18,271 |  |
| 12/22/2019 | true | True | True | 3.51 | 10.09 | 7.00 | 50\% | 35\% | 69\% |  | 1.44 | 7.05 | 7.08 |  |  |  |  |  |  |  |  | 14,431 | 18,287 |  |  |  |  | 14,392 | 18,271 |  |
| 12/23/2019 <br> 12/24/2019 | TRUE TRUE | TRUE TRUE | FALSE FALSE | 4.56 4.11 | 9.98 9.16 | $7.53$ | 61\% | 46\% | 75\% |  | 1.33 1.31 | $\begin{aligned} & 7.09 \\ & \hline 7 \end{aligned}$ | 7.10 7.09 |  |  |  |  |  |  |  |  | 14,751 14,751 | $\begin{aligned} & 19,087 \\ & 1087 \end{aligned}$ |  |  |  |  | $\begin{aligned} & 14,707 \\ & 1407 \end{aligned}$ | 19,069 19,069 |  |
| 12/25/2019 | TRUE | TRUE | TRUE | 3.70 | 7.81 | 5.89 | 63\% | 47\% | 75\% |  | 1.33 | 7.12 | 6.96 |  |  |  |  |  |  |  |  | 14,751 | 19,087 |  |  |  |  | 14,707 | 19,069 |  |
| 12/26/2019 | TRUE | TRUE | FALSE | 3.48 | 8.42 | 6.15 | 57\% | 41\% | 73\% |  | 1.37 | 7.13 | 6.84 |  |  |  |  |  |  |  |  | 14,751 | 19,087 |  |  |  |  | 14,707 | 19,069 |  |
| 12/27/2019 | TRUE | TRUE | FALSE | 3.51 | 8.24 | 6.29 | 56\% | 43\% | 76\% |  | 1.31 | 7.13 | 6.71 |  |  |  |  |  |  |  |  | 14,751 | 19,087 |  |  |  |  | 14,707 | 19,069 |  |
| 12/28/2019 | TRUE | TRUE | FALSE | 3.47 | 8.23 | 6.13 | 57\% | 42\% | 74\% |  | 1.34 | 7.12 | 6.59 | 268.30 | 243.00 | 0.91 |  | 13,717 | 12,423 |  |  | 14,308 | 17,960 |  | 13,717 | 12,423 |  | 14,263 | 17,942 |  |
| 12/29/2019 | TRUE | TRUE | TRUE | 3.30 | 8.29 | 6.02 | 55\% | 40\% | 73\% |  | 1.38 | 7.13 | 6.50 |  |  |  |  |  |  |  |  | 14,308 | 17,960 |  |  |  |  | 14,263 | 17,942 |  |
| 12/30/2019 | ${ }_{\text {TRUE }}^{\text {TRUE }}$ | ${ }_{\text {TRUE }}^{\text {TRUE }}$ | TRUE | 3.43 <br> 3.45 | 8.34 8.43 | ${ }_{6}^{6.23}$ | 55\% | 41\% | 75\% |  | 1.34 <br> 1.36 <br> 1.3 | 7.15 | 6.41 6.24 |  |  |  |  |  |  |  |  | 14,308 | 17,960 |  |  |  |  | 14,263 14,263 | 17,942 17942 |  |
| 12/31/2019 | TRUE TRUE | ${ }_{\text {TRUE }}^{\text {TRUE }}$ | FALSE | $\begin{aligned} & 3.45 \\ & 3.49 \\ & \hline \end{aligned}$ | $\begin{aligned} & 8.43 \\ & 7.91 \end{aligned}$ | $\begin{aligned} & 6.20 \\ & 5.76 \\ & \hline \end{aligned}$ | $56 \%$ | $\begin{aligned} & 41 \% \\ & 44 \% \end{aligned}$ | $\begin{aligned} & 74 \% \\ & 73 \% \end{aligned}$ |  | $1.36$ |  | $\begin{aligned} & 6.24 \\ & 6.08 \end{aligned}$ |  |  |  |  |  |  |  |  | 14,308 14,308 | 17,960 17,960 |  |  |  |  | 14,263 14,263 | 17,942 |  |
| 1/2/2020 | TRUE | TRUE | FALSE | 3.49 3.26 | ${ }^{7.90}$ | 5.76 5.97 | 55\% | 39\% | 71\% |  | 1.41 | ${ }^{7.9555484}$ | 6.08 |  |  |  |  |  |  |  |  | 14,308 | 17,960 |  |  |  |  | 14,263 | 17,942 |  |
| 1/3/2020 | TRUE | TRUE | FALSE | 3.41 | 8.48 | 6.01 | 57\% | 40\% | 71\% |  | 1.41 | 6.875806 | 6.08 | 294.60 | 208.00 | 0.71 |  | 14,766 | 10,426 |  |  | 14,373 | 16,884 |  | 14,766 | 10,426 |  | 14,335 | 16,868 |  |
| 1/4/2020 | TRUE | TRUE | TrUE | 3.37 | 8.30 | 5.99 | 56\% | 41\% | 72\% |  | 1.39 | 6.824839 | 6.04 |  |  |  |  |  |  |  |  | 14,687 | 15,826 |  |  |  |  | 14,643 | 15,807 |  |
| 1/5/2020 | TRUE | TRUE | FALSE | 3.28 | 8.37 | 5.96 | 55\% | 39\% | 71\% |  | 1.40 | 6.782903 | 6.02 |  |  |  |  |  |  |  |  | 14,961 | 14,607 |  |  |  |  | 14,908 | 14,585 |  |
| 1/6/2020 | true | TRUE | FALSE | 3.25 | 8.71 | 6.07 | 54\% | 37\% | 70\% |  | 1.43 | 6.751613 | 6.02 |  |  |  |  |  |  |  |  | 14,961 | 14,607 |  |  |  |  | 14,908 | 14,585 |  |
| 1/7/2020 | TRUE | TRUE | FALSE | 3.36 | 8.79 | 6.09 | 55\% | 38\% | 69\% |  | 1.44 | 6.705161 | 6.01 |  |  |  |  |  |  |  |  | 14,961 | 14,607 |  |  |  |  | 14,908 | 14,585 |  |
| 1/8/2020 | TRUE | true | FALSE | 3.32 | 8.66 | 6.10 | 54\% | 38\% | 70\% |  | 1.42 | 6.660645 | 5.99 |  |  |  |  |  |  |  |  | 14,961 | 14,607 |  |  |  |  | 14,908 | 14,585 |  |


| Date | $\begin{aligned} & \text { Butte } \\ & \text { Break? } \end{aligned}$ | $\underset{\text { Break? }}{\text { csu }}$ | Precip? | $\begin{gathered} \text { Min } \\ \text { Mnfluent } \\ \text { Flow, mgd } \end{gathered}$ | $\underset{\substack{\text { Max } \\ \text { Influent } \\ \text { Flow, } \mathrm{mgd}}}{\text { and }}$ | $\begin{gathered} \text { Avg } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | Min \% of Avg | $\underset{\operatorname{Max}}{\min _{\mathrm{Max}}}$ | Avg \% of | $\begin{aligned} & \text { Flow } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | Diurnal Peak Factor (DPF) | $\begin{aligned} & \text { 30-d Avg } \\ & \text { of Avg } \\ & \text { Flow, mgd } \end{aligned}$ | 7-d Avg of Avg Flow, mgd | Influent TSS Conc., mg/L | Influent BOD Conc. mg/L | $\begin{array}{\|l\|l\|} \hline \text { BoD/TSS } \\ \text { Ratio } \end{array}$ | Influent NH3-N Conc., mg/L | Avg inf TSS Load, ppd | Avg $\operatorname{lnf}$ BoD load, ppd | Avg Inf NH3 Load, ppd | $\begin{aligned} & \text { Load } \\ & \text { Outlier } \\ & \text { Otype } \end{aligned}$ | 30-d Avg of TSS Load, ppd | 30-d Avg of BOD Load, ppd | 30-d Avg of NH3-N Load, ppd | non-SN TSS Load, ppd | non-SN BOD Load, ppd | non-SN NH3 Load, ppd | 30-d Avg <br> of non-SN TSS Load, ppd | $\begin{gathered} \text { 30-d Avg } \\ \text { of non-SN } \\ \text { BOD Load, } \\ \text { ppd } \end{gathered}$ | 30-d Avg of non-SN NH3-N Load, ppd |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1/9/2020 | True | TRUE | TRUE | 3.41 | 8.64 | 6.21 | 55\% | 39\% | 72\% |  | 1.39 | 6.630645 | 6.05 |  |  |  |  |  |  |  |  | 14,961 | 14,607 |  |  |  |  | 14,908 | 14,585 |  |
| 1/10/2020 | TRUE | TRUE | FALSE | 3.35 | 8.53 | 6.14 | 55\% | 39\% | 72\% |  | 1.39 | 6.603548 | 6.07 |  |  |  |  |  |  |  |  | 14,961 | 14,607 |  |  |  |  | 14,908 | 14,585 |  |
| 1/11/2020 | TRUE | TRUE | FALSE | 3.39 | 8.06 | 6.04 | 56\% | 42\% | 75\% |  | 1.33 | 6.564194 | 6.08 | 180.80 | 424.00 | 2.35 |  | 9,108 | 21,358 |  |  | 13,808 | 15,234 |  | 9,108 | 21,358 |  | 13,755 | 15,212 |  |
| 1/12/2020 | TRUE | TRUE | FALSE | 3.23 | 8.84 | 6.03 | 54\% | 37\% | 68\% |  | 1.47 | 6.494516 | 6.08 |  |  |  |  |  |  |  |  | 13,165 | 13,971 |  |  |  |  | 13,099 | 13,943 |  |
| 1/13/2020 | TRUE | TRUE | FALSE | 3.24 | 8.70 | 6.03 | 54\% | 37\% | 69\% |  | 1.44 | 6.444839 | 6.09 |  |  |  |  |  |  |  |  | 13,165 | 13,971 |  |  |  |  | 13,099 | 13,943 |  |
| 1/14/2020 | true | true | FALSE | 3.22 | 8.79 | 5.99 | 54\% | 37\% | 68\% |  | 1.47 | 6.401935 | 6.08 |  |  |  |  |  |  |  |  | 13,165 | 13,971 |  |  |  |  | 13,099 | 13,943 |  |
| 1/15/2020 | TRUE | True | FALSE | 3.28 | 8.70 | 6.17 | 53\% | 38\% | 71\% |  | 1.41 | 6.364839 | 6.09 | 383.50 | 327.00 | 0.85 |  | 19,734 | 16,827 |  |  | 14,479 | 14,542 |  | 19,734 | 16,827 |  | 14,426 | 14,520 |  |
| 1/16/2020 | TRUE | TRUE | TRUE | 3.34 | 8.76 | 6.35 | 53\% | 38\% | 72\% |  | 1.38 | 6.340645 | 6.12 | 361.00 | 330.00 | 0.91 |  | 19,118 | 17,476 |  |  | 15,252 | 15,031 |  | 19,118 | 17,476 |  | 15,208 | 15,012 |  |
| 1/17/2020 | true | TRUE | FALSE | 3.39 | 8.66 | 6.31 | 54\% | 39\% | 73\% |  | 1.37 | 6.31871 | 6.13 |  |  |  |  |  |  |  |  | 15,252 | 15,031 |  |  |  |  | 15,208 | 15,012 |  |
| 1/18/2020 | true | true | false | 3.31 | 8.30 | 6.16 | 54\% | 40\% | 74\% |  | 1.35 | 6.289355 | 6.14 |  |  |  |  |  |  |  |  | 15,289 | 15,702 |  |  |  |  | 15,289 | 15,702 |  |
| 1/19/2020 | TRUE | TRUE | FALSE | 3.24 | 8.63 | 6.12 | 53\% | 38\% | 71\% |  | 1.41 | 6.249355 | 6.15 |  |  |  |  |  |  |  |  | 15,289 | 15,702 |  |  |  |  | 15,289 | 15,702 |  |
| 1/20/2020 | true | true | FALSE | 3.30 | 9.51 | 6.48 | 51\% | 35\% | 68\% |  | 1.47 | 6.229355 | 6.20 |  |  |  |  |  |  |  |  | 15,289 | 15,702 |  |  |  |  | 15,289 | 15,702 |  |
| 1/21/2020 | TRUE | True | TRUE | 3.34 | 9.21 | 6.58 | 51\% | 36\% | 71\% |  | 1.40 | 6.226129 | 6.27 |  |  |  |  |  |  |  |  | 15,289 | 15,702 |  |  |  |  | 15,289 | 15,702 |  |
| 1/22/2020 | TRUE | TRUE | FALSE | 3.39 | 9.39 | 6.59 | 51\% | 36\% | 70\% |  | 1.42 | 6.212903 | 6.35 | 278.40 | 329.00 | 1.18 |  | 15,301 | 18,082 |  |  | 15,291 | 16,099 |  | 15,234 | 18,038 |  | 15,280 | 16,091 |  |
| 1/23/2020 | TRUE | FALSE | TRUE | 3.42 | 9.23 | 6.54 | 52\% | 37\% | 71\% |  | 1.41 | 6.180968 | 6.39 | 218.50 | 410.00 | 1.88 |  | 11,918 | 22,363 |  |  | 14,809 | 16,994 |  | 11,918 | 22,363 |  | 14,799 | 16,987 |  |
| 1/24/2020 | TRUE | FALSE | FALSE | 3.49 | 8.93 | 6.58 | 53\% | 39\% | 74\% |  | 1.36 | 6.167097 | 6.42 |  |  |  |  |  |  |  |  | 14,809 | 16,994 |  |  |  |  | 14,799 | 16,987 |  |
| 1/25/2020 | TRUE | FALSE | TRUE | 3.62 | 8.67 | 6.62 | 55\% | 42\% | 76\% |  | 1.31 | 6.190645 | 6.46 |  |  |  |  |  |  |  |  | 14,809 | 16,994 |  |  |  |  | 14,799 | 16,987 |  |
| 1/26/2020 | TRUE | false | True | 4.36 | 10.92 | 7.88 | 55\% | 40\% | 72\% |  | 1.39 | 6.246452 | 6.67 |  |  |  |  |  |  |  |  | 14,809 | 16,994 |  |  |  |  | 14,799 | 16,987 |  |
| 1/27/2020 | True | false | FALSE | 4.03 | 10.93 | 7.50 | 54\% | 37\% | 69\% |  | 1.46 | 6.285484 | 6.85 |  |  |  |  |  |  |  |  | 14,809 | 16,994 |  |  |  |  | 14,799 | 16,987 |  |
| 1/28/2020 | true | false | false | 3.80 | 11.70 | 7.28 | 52\% | 32\% | 62\% |  | 1.61 | 6.322581 | 6.95 |  |  |  |  |  |  |  |  | 14,991 | 17,755 |  |  |  |  | 14,980 | 17,748 |  |
| 1/29/2020 | FALSE | FALSE | FALSE | 3.62 | 10.10 | 6.92 | 52\% | 36\% | 69\% |  | 1.46 | 6.351613 | 6.99 | 378.60 | 314.00 | 0.83 |  | 21,850 | 18,122 |  |  | 15,971 | 17,808 |  | 21,850 | 18,122 |  | 15,961 | 17,801 |  |
| 1/30/2020 | FALSE | FALSE | FALSE | 3.54 | 9.55 | 6.72 | 53\% | 37\% | 70\% |  | 1.42 | 6.367419 | 7.01 |  |  |  |  |  |  |  |  | 15,971 | 17,808 |  |  |  |  | 15,961 | 17,801 |  |
| 1/31/2020 | FALSE | false | FALSE | 3.50 | 9.48 | 6.58 | 53\% | 37\% | 69\% |  | 1.44 | 6.379677 | 7.01 |  |  |  |  |  |  |  |  | 15,971 | 17,808 |  |  |  |  | 15,961 | 17,801 |  |
| 2/1/2020 | false | false | FALSE | 3.47 | 9.17 | 6.52 | 53\% | 38\% | 71\% |  | 1.41 | 6.404194 | 7.00 |  |  |  |  |  |  |  |  | 15,971 | 17,808 |  |  |  |  | 15,961 | 17,801 |  |
| 2/2/2020 | FALSE | false | false | 3.21 | 9.55 | 6.36 | 50\% | 34\% | 67\% |  | 1.50 | 6.416774 | 6.97 |  |  |  |  |  |  |  |  | 15,971 | 17,808 |  |  |  |  | 15,961 | 17,801 |  |
| 2/3/2020 | FALSE | false | FALSE | 3.20 | 9.76 | 6.35 | 50\% | 33\% | 65\% |  | 1.54 | 6.427742 | 6.78 |  |  |  |  |  |  |  |  | 16,171 | 19,038 |  |  |  |  | 16,160 | 19,031 |  |
| 2/4/2020 | FALSE | false | FALSE | 3.18 | 9.59 | 6.42 | 50\% | 33\% | 67\% |  | 1.49 | 6.441613 | 6.64 |  |  |  |  |  |  |  |  | 16,171 | 19,038 |  |  |  |  | 16,160 | 19,031 |  |
| 2/5/2020 | FALSE | false | FALSE | 3.25 | 9.51 | 6.48 | 50\% | 34\% | 68\% |  | 1.47 | 6.458387 | 6.54 |  |  |  |  |  |  |  |  | 16,171 | 19,038 |  |  |  |  | 16,160 | 19,031 |  |
| 2/6/2020 | FALSE | false | FALSE | 3.26 | 9.48 | 6.31 | 52\% | 34\% | 67\% |  | 1.50 | 6.466129 | 6.47 |  |  |  |  |  |  |  |  | 16,171 | 19,038 |  |  |  |  | 16,160 | 19,031 |  |
| 2/7/2020 | FALSE | false | false | 3.23 | 9.11 | 6.20 | 52\% | 35\% | 68\% |  | 1.47 | 6.469677 | 6.40 | 370.90 | 254.00 | 0.68 |  | 19,178 | 13,134 |  |  | 16,601 | 18,195 |  | 19,178 | 13,134 |  | 16,591 | 18,188 |  |
| 2/8/2020 | FALSE | false | FALSE | 3.21 | 8.78 | 6.17 | 52\% | 37\% | 70\% |  | 1.42 | 6.471935 | 6.35 |  |  |  |  |  |  |  |  | 16,601 | 18,195 |  |  |  |  | 16,591 | 18,188 |  |
| 2/9/2020 | FALSE | false | false | 3.10 | 9.26 | 6.24 | 50\% | 33\% | 67\% |  | 1.48 | 6.472903 | 6.32 |  |  |  |  |  |  |  |  | 16,601 | 18,195 |  |  |  |  | 16,591 | 18,188 |  |
| 2/10/2020 | FALSE | false | FALSE | 3.19 | 9.50 | 6.23 | 51\% | 34\% | 66\% |  | 1.52 | 6.475806 | 6.30 |  |  |  |  |  |  |  |  | 16,601 | 18,195 |  |  |  |  | 16,591 | 18,188 |  |
| 2/11/2020 | false | false | false | 3.14 | 9.34 | 6.13 | 51\% | 34\% | 66\% |  | 1.52 | 6.47871 | 6.27 |  |  |  |  |  |  |  |  | 17,850 | 17,667 |  |  |  |  | 17,839 | 17,660 |  |
| 2/12/2020 | FALSE | false | FALSE | 3.17 | 9.11 | 6.20 | 51\% | 35\% | 68\% |  | 1.47 | 6.484194 | 6.25 |  |  |  |  |  |  |  |  | 17,850 | 17,667 |  |  |  |  | 17,839 | 17,660 |  |
| 2/13/2020 | false | false | FALSE | 3.20 | 8.97 | 6.07 | 53\% | 36\% | 68\% |  | 1.48 | 6.485484 | 6.19 |  |  |  |  |  |  |  |  | 17,850 | 17,667 |  |  |  |  | 17,839 | 17,660 |  |
| 2/14/2020 | FALSE | false | FALSE | 3.24 | 8.42 | 6.11 | 53\% | 38\% | 73\% |  | 1.38 | 6.489355 | 6.17 | 298.80 | 221.00 | 0.74 |  | 15,226 | 11,262 |  |  | 17,475 | 16,752 |  | 15,226 | 11,262 |  | 17,466 | 16,746 |  |
| 2/15/2020 | FALSE | false | FALSE | 3.14 | 8.57 | 5.96 | 53\% | 37\% | 70\% |  | 1.44 | 6.482581 | 6.14 |  |  |  |  |  |  |  |  | 17,099 | 16,740 |  |  |  |  | 17,087 | 16,732 |  |
| 2/16/2020 | FALSE | FALSE | FALSE | 3.11 | 8.29 | 5.91 | 53\% | 38\% | 71\% |  | 1.40 | 6.468387 | 6.11 |  |  |  |  |  |  |  |  | 16,695 | 16,592 |  |  |  |  | 16,681 | 16,584 |  |
| 2/17/2020 | false | false | false | 3.12 | 9.53 | 6.28 | 50\% | 33\% | 66\% |  | 1.52 | 6.467419 | 6.11 |  |  |  |  |  |  |  |  | 16,695 | 16,592 |  |  |  |  | 16,681 | 16,584 |  |
| 2/18/2020 | FALLE | FALSE | FALSE | 3.16 3.15 | 9.34 | 6.16 | 51\% | 34\% | 66\% |  | 1.52 | 6.467719 | 6.10 |  |  |  |  |  |  |  |  | 16,695 | 16,592 |  |  |  |  | 16,681 | 16,584 |  |
| 2/19/2020 | FALSE | FALSE | FALSE | 3.13 | 9.21 | 6.14 | 51\% | 34\% | 67\% |  | 1.50 | 6.468065 | 6.10 | 391.60 | 357.00 | 0.91 |  | 20,053 | 18,281 |  |  | 17,254 | 16,874 |  | 20,053 | 18,281 |  | 17,243 | 16,867 |  |
| 2/20/2020 | FALSE | FALSE | ${ }_{\text {FALISE }}$ | 3.20 3 3.23 | 9.13 8.75 | 6.16 | 52\% | 35\% | 67\% |  | 1.48 | ${ }_{6}^{6.457742}$ | 6.10 | 403.40 | 332.00 | 0.82 |  | 20,724 | 17,056 |  |  | 17,750 | 16,900 |  | 20,724 | 17,056 |  | 17,741 | 16,894 |  |
| 2/21/2020 | FALSE | FALSE | ${ }_{\text {FALISE }}$ | 3.23 <br> 3.16 | 8.75 8.38 | ${ }_{6}^{6.06}$ | 53\% | 37\% | 69\% |  | 1.44 | 6.440968 | 6.10 |  |  |  |  |  |  |  |  | 17,750 | 16,900 |  |  |  |  | 17,741 | 16,894 |  |
| 2/22/2020 2/23/2020 | FALSE | FALSE | $\underset{\text { FALSE }}{ }$ | 3.16 3.17 | 8.38 9.22 | 5.94 6.13 | 53\% | $38 \%$ $34 \%$ | 71\% |  | 1.41 1.50 | ${ }_{6.406774}^{6.42}$ | 6.08 6.10 |  |  |  |  |  |  |  |  | 18,158 | 16,703 15,571 |  |  |  |  | 18,158 19 | 16,703 1571 |  |
| $\begin{aligned} & 2 / 23 / 2020 \\ & 2 / 24 / 2020 \end{aligned}$ | FALLE | FALSE | FAALSE | 3.17 3.17 | 9.22 9.13 | 6.13 6.14 | 52\% | 34\% | 66\% |  | 1.50 1.49 | ${ }_{6}^{6.406774}$ | 6.10 |  |  |  |  |  |  |  |  | 19,406 19,406 | 15,571 |  |  |  |  | 19,406 19,406 | 15,571 |  |
| 2/25/2020 | FALSE | FALSE | FALSE | 3.15 | 9.15 | 6.00 | 53\% | 34\% | 66\% |  | 1.53 | 6.372581 | 6.09 |  |  |  |  |  |  |  |  | 19,406 | 15,571 |  |  |  |  | 19,406 | 15,571 |  |
| 2/26/2020 | FALSE | FALSE | FALSE | 3.19 | 8.98 | 6.08 | 52\% | 36\% | 68\% |  | 1.48 | 6.314516 | 6.08 | 339.00 | 279.00 | 0.82 |  | 17,190 | 14,147 |  |  | 19,037 | 15,334 |  | 17,072 | 14,114 |  | 19,017 | 15,328 |  |
| 2/27/2020 | FALSE | false | FALSE | 3.14 | 9.10 | 6.03 | 52\% | 35\% | 66\% |  | 1.51 | 6.267097 | 6.07 | 312.60 | 333.00 | 1.07 |  | 15,721 | 16,747 |  |  | 18,563 | 15,536 |  | 15,721 | 16,747 |  | 18,546 | 15,531 |  |
| 2/28/2020 | FALSE | FALSE | FALSE | 3.25 | 8.79 | 6.06 | 54\% | 37\% | 69\% |  | 1.45 | 6.227742 | 6.06 |  |  |  |  |  |  |  |  | 18,563 | 15,536 |  |  |  |  | 18,546 | 15,531 |  |
| 2/29/2020 | FALSE | false | FALSE | 3.19 | 8.80 | 6.05 | 53\% | 36\% | 69\% |  | 1.45 | 6.199677 | 6.05 |  |  |  |  |  |  |  |  | 18,015 | 15,104 |  |  |  |  | 17,996 | 15,099 |  |
| 3/1/2020 | FALSE | FALSE | FALSE | 3.08 | 9.22 | 6.08 | 51\% | 33\% | 66\% |  | 1.52 | 6.179032 | 6.07 |  |  |  |  |  |  |  |  | 18,015 | 15,104 |  |  |  |  | 17,996 | 15,099 |  |
| 3/2/2020 | FALSE | FALSE | FALSE | 3.03 | 9.35 | 6.13 | 49\% | 32\% | 66\% |  | 1.53 | 6.164516 | 6.07 |  |  |  |  |  |  |  |  | 18,015 | 15,104 |  |  |  |  | 17,996 | 15,099 |  |
| 3/3/2020 | FALSE | FALSE | FALSE | 3.10 | 9.15 | 6.10 | 51\% | 34\% | 67\% |  | 1.50 | 6.150968 | 6.07 |  |  |  |  |  |  |  |  | 18,015 | 15,104 |  |  |  |  | 17,996 | 15,099 |  |
| 3/4/2020 | FALSE | FALSE | FALSE | 3.19 | 9.19 | 6.14 | 52\% | 35\% | 67\% |  | 1.50 | 6.143871 | 6.08 | 340.70 |  |  |  | 17,446 |  |  |  | 17,934 | 15,104 |  | 17,446 |  |  | 17,917 | 15,099 |  |
| $3 / 5 / 2020$ $3 / 6 / 2020$ | FALSE | FALSE | $\underset{\text { FALSE }}{ }$ | 3.18 3.30 3 | 9.03 8.77 | 6.11 6.26 | 52\% | 35\% | 68\% |  | $\begin{aligned} & 1.48 \\ & 1.40 \end{aligned}$ | 6.136129 6.130968 | 6.09 6.12 | 342.20 | 262.00 | 0.77 |  | 17,438 | 13,351 |  |  | 17,872 17872 | 14,854 14854 |  | 17,438 | 13,351 |  | 17,857 1785 | 14,849 14849 |  |
| 3/6/7/2020 | ${ }^{\text {FALSE }}$ | ${ }^{\text {FALILSE }}$ | ${ }_{\text {FeALSE }}$ TRUE | 3.30 3.36 | ${ }_{9.21} 8.71$ | 6.26 6.40 | 53\% | 38\% | 71\% |  | 1.40 1.44 | ${ }_{6}^{6.1288388}$ | 6.12 |  |  |  |  |  |  |  |  | 17,882 | ${ }^{14,854}$ |  |  |  |  | 17,857 | 14,849 14,849 |  |
| 3/8/2020 | FALSE | false | false | 3.28 | 9.04 | 6.34 | 52\% | 36\% | 70\% |  | 1.43 | 6.129355 | 6.20 |  |  |  |  |  |  |  |  | 17,872 | 14,854 |  |  |  |  | 17,857 | 14,849 |  |
| 3/9/2020 | FALSE | FALSE | FALSE | 3.30 | 9.33 | 6.26 | 53\% | 35\% | 67\% |  | 1.49 | 6.13129 | 6.22 |  |  |  |  |  |  |  |  | 17,685 | 15,141 |  |  |  |  | 17,669 | 15,135 |  |
| 3/10/2020 | FALSE | FALSE | FALSE | 3.34 | 9.53 | 6.21 | 54\% | 35\% | 65\% |  | 1.53 | 6.132581 | 6.23 |  |  |  |  |  |  |  |  | 17,685 | 15,141 |  |  |  |  | 17,669 | 15,135 |  |
| 3/11/2020 | FALSE | FALSE | FALSE | 3.37 | 8.68 | 6.21 | 54\% | 39\% | 72\% |  | 1.40 | 6.131613 | 6.24 | 335.30 | 209.00 | 0.62 |  | 17,366 | 10,824 |  |  | 17,645 | 14,524 |  | 17,366 | 10,824 |  | 17,631 | 14,519 |  |


| Date | $\begin{array}{\|l\|l} \text { Butte } \\ \text { Break? } \end{array}$ | $\underset{\text { Break? }}{\text { csu }}$ | Precip? |  | $\underset{\substack{\text { Max } \\ \text { Influent } \\ \text { Flow, } \text { mgd }}}{\text { and }}$ | $\begin{gathered} \text { Avg } \\ \text { Influent } \\ \text { Flow, } \mathrm{mgd} \end{gathered}$ | $\begin{aligned} & \text { Min \% of } \\ & \text { Avg } \end{aligned}$ | $\underset{\text { max }}{\min _{\text {max }}}$ | $\begin{aligned} & \text { Avg \% of } \\ & \text { Max } \end{aligned}$ | $\begin{aligned} & \text { Flow } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | $\begin{aligned} & \text { Diurnal } \\ & \text { Peak } \\ & \text { Factor } \\ & \text { (DPF) } \end{aligned}$ | 30-d Avg of Avg Flow, mgd | 7-d Avg of Avg Flow, mgd | Influent TSS Conc., mg/L | $\begin{gathered} \text { Infiluent } \\ \text { BoD } \\ \text { Conc., } \\ \mathrm{mg} / \mathrm{L} \end{gathered}$ | BOD/TSS Ratio | Influent NH3-N Conc., mg/L | Avg Inf TSS Load, ppd | Avg Inf BOD Load, ppd | Avg Inf NH3 Load, ppd | $\begin{aligned} & \text { Load } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | $\begin{gathered} \text { 30-d Avg } \\ \text { of TSS } \\ \text { Load, ppd } \end{gathered}$ | 30-d Avg Load, ppd | 30-d Avg of NH3-N Load, ppd | non-SN TSS Load, ppd | non-SN BOD Load, ppd | non-SN NH3 Load, ppd | $\begin{gathered} \text { 30-d Avg } \\ \text { of non-SN } \\ \text { TSS Load, } \\ \text { ppd } \end{gathered}$ | $\begin{gathered} \text { 30-d Avg } \\ \text { of non-SN } \\ \text { BOD Load, } \\ \text { ppd } \end{gathered}$ | 30-d Avg of non-SN NH3-N Load, ppd |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3/12/2020 | FALSE | FALSE | FALSE | 3.35 | 8.64 | 6.22 | 54\% | 39\% | 72\% |  | 1.39 | 6.13129 | 6.25 |  |  |  |  |  |  |  |  | 17,645 | 14,524 |  |  |  |  | 17,631 | 14,519 |  |
| 3/13/2020 | true | TRUE | FALSE | 3.33 | 8.54 | 6.14 | 54\% | 39\% | 72\% |  | 1.39 | 6.131613 | 6.26 | 326.30 | 263.00 | 0.81 |  | 16,709 | 13,468 |  |  | 17,541 | 14,392 |  | 16,603 | 13,405 |  | 17,516 | 14,380 |  |
| 3/14/2020 | true | TRUE | FALSE | 2.06 | 8.60 | 6.08 | 34\% | 24\% | 71\% | inAvgMinM | 1.41 | 6.129333 | 6.25 |  |  |  |  |  |  |  |  | 17,541 | 14,392 |  |  |  |  | 17,516 | 14,380 |  |
| 3/15/2020 | true | TRUE | TRUE | 2.75 | 8.53 | 5.95 | 46\% | 32\% | 70\% |  | 1.43 | 6.125333 | 6.19 |  |  |  |  |  |  |  |  | 17,541 | 14,392 |  |  |  |  | 17,516 | 14,380 |  |
| 3/16/2020 | true | TRUE | true | 3.31 | 7.73 | 5.90 | 56\% | 43\% | 76\% |  | 1.31 | 6.118333 | 6.13 |  |  |  |  |  |  |  |  | 17,831 | 14,839 |  |  |  |  | 17,803 | 14,825 |  |
| 3/17/2020 | true | TRUE | true | 3.59 | 8.33 | 6.30 | 57\% | 43\% | 76\% |  | 1.32 | 6.129667 | 6.13 |  |  |  |  |  |  |  |  | 17,831 | 14,839 |  |  |  |  | 17,803 | 14,825 |  |
| 3/18/2020 | true | TRUE | true | 3.60 | 8.26 | 6.32 | 57\% | 44\% | 77\% |  | 1.31 | 6.143333 | 6.15 | 290.40 | 202.00 | 0.70 |  | 15,307 | 10,647 |  |  | 17,550 | 14,315 |  | 15,307 | 10,647 |  | 17,525 | 14,303 |  |
| 3/19/2020 | true | True | FALSE | 3.43 | 7.93 | 6.07 | 57\% | 43\% | 77\% |  | 1.31 | 6.136333 | 6.13 |  |  |  |  |  |  |  |  | 17,550 | 14,315 |  |  |  |  | 17,525 | 14,303 |  |
| 3/20/2020 | FALSE | TRUE | FALSE | 3.46 | 7.74 | 5.95 | 58\% | 45\% | 77\% |  | 1.30 | 6.129333 | 6.09 |  |  |  |  |  |  |  |  | 17,550 | 14,315 |  |  |  |  | 17,525 | 14,303 |  |
| 3/21/2020 | FALSE | TRUE | FALSE | 3.35 | 8.19 | 5.88 | 57\% | 41\% | 72\% |  | 1.39 | 6.120667 | 6.05 |  |  |  |  |  |  |  |  | 17,238 | 13,749 |  |  |  |  | 17,209 | 13,735 |  |
| 3/22/2020 | FALSE | TRUE | FALSE | 3.30 | 8.13 | 5.84 | 57\% | 41\% | 72\% |  | 1.39 | 6.11 | 6.03 |  |  |  |  |  |  |  |  | 16,739 | 13,197 |  |  |  |  | 16,707 | 13,181 |  |
| 3/23/2020 | FALSE | TRUE | FALSE | 3.40 | 7.89 | 6.03 | 56\% | 43\% | 76\% |  | 1.31 | 6.109 | 6.04 |  |  |  |  |  |  |  |  | 16,739 | 13,197 |  |  |  |  | 16,707 | 13,181 |  |
| 3/24/2020 | FALSE | FALSE | True | 1.83 | 7.94 | 6.18 | 30\% | 23\% | 78\% | inAvgMinM | 1.28 | 6.114828 | 6.06 |  |  |  |  |  |  |  |  | 16,739 | 13,197 |  |  |  |  | 16,707 | 13,181 |  |
| 3/25/2020 | FALSE | FALSE | FALSE | 3.42 | 7.95 | 6.01 | 57\% | 43\% | 76\% |  | 1.32 | 6.11069 | 6.01 | 260.00 | 316.00 | 1.22 |  | 13,032 | 15,839 |  |  | 16,276 | 13,575 |  | 13,032 | 15,839 |  | 16,248 | 13,561 |  |
| 3/26/2020 | FALSE | FALSE | false | 3.36 | 7.92 | 5.83 | 58\% | 42\% | 74\% |  | 1.36 | 6.1 | 5.94 |  |  |  |  |  |  |  |  | 16,276 | 13,575 |  |  |  |  | 16,248 | 13,561 |  |
| 3/27/2020 | FALSE | FALSE | false | 3.33 | 7.72 | 5.85 | 57\% | 43\% | 76\% |  | 1.32 | 6.094828 | 5.91 |  |  |  |  |  |  |  |  | 16,276 | 13,575 |  |  |  |  | 16,248 | 13,561 |  |
| 3/28/2020 | FALSE | FALSE | True | 3.35 | 8.29 | 5.92 | 57\% | 40\% | 71\% |  | 1.40 | 6.08931 | 5.91 |  |  |  |  |  |  |  |  | 16,145 | 13,479 |  |  |  |  | 16,130 | 13,469 |  |
| 3/29/2020 | FALSE | FALSE | TRUE | 3.25 | 8.25 | 5.85 | 56\% | 39\% | 71\% |  | 1.41 | 6.083103 | 5.90 |  |  |  |  |  |  |  |  | 16,216 | 12,826 |  |  |  |  | 16,199 | 12,813 |  |
| 3/30/2020 | FALSE | FALSE | FALSE | 3.33 | 7.71 | 5.90 | 56\% | 43\% | 77\% |  | 1.31 | 6.077586 | 5.91 |  |  |  |  |  |  |  |  | 16,216 | 12,826 |  |  |  |  | 16,199 | 12,813 |  |
| 3/31/2020 | FALSE | FALSE | FALSE | 3.37 | 7.79 | 5.85 | 58\% | 43\% | 75\% |  | 1.33 | 6.07069 | 5.89 |  |  |  |  |  |  |  |  | 16,216 | 12,826 |  |  |  |  | 16,199 | 12,813 |  |
| 4/1/2020 | FALSE | FALSE | FALSE | 3.35 | 7.71 | 5.76 | 58\% | 43\% | 75\% |  | 1.34 | 6.059655 | 5.87 |  |  |  |  |  |  |  |  | 16,216 | 12,826 |  |  |  |  | 16,199 | 12,813 |  |
| 4/2/2020 | FALSE | FALSE | FALSE | 3.30 | 7.91 | 5.73 | 58\% | 42\% | 72\% |  | 1.38 | 6.045862 | 5.84 | 346.50 | 326.00 | 0.94 |  | 16,559 | 15,579 |  |  | 16,265 | 13,285 |  | 16,559 | 15,579 |  | 16,250 | 13,274 |  |
| 4/3/2020 | FALSE | FALSE | FALSE | 3.38 | 7.59 | 5.71 | 59\% | 45\% | 75\% |  | 1.33 | 6.032414 | 5.82 |  |  |  |  |  |  |  |  | 16,265 | 13,285 |  |  |  |  | 16,250 | 13,274 |  |
| 4/4/2020 | FALSE | FALSE | TRUE | 3.22 | 8.78 | 6.07 | 53\% | 37\% | 69\% |  | 1.45 | 6.03 | 5.85 |  |  |  |  |  |  |  |  | 16,068 | 13,285 |  |  |  |  | 16,051 | 13,274 |  |
| 4/5/2020 | FALSE | FALSE | TrUE | 3.37 | 10.53 | 6.82 | 49\% | 32\% | 65\% |  | 1.54 | 6.054483 | 5.96 |  |  |  |  |  |  |  |  | 15,794 | 13,271 |  |  |  |  | 15,773 | 13,259 |  |
| 4/6/2020 | FALSE | FALSE | True | 4.00 | 8.77 | 6.82 | 59\% | 46\% | 78\% |  | 1.29 | 6.073793 | 6.08 |  |  |  |  |  |  |  |  | 15,794 | 13,271 |  |  |  |  | 15,773 | 13,259 |  |
| 4/7/2020 | FALSE | FALSE | True | 3.74 | 8.36 | 6.38 | 59\% | 45\% | 76\% |  | 1.31 | 6.073103 | 6.14 |  |  |  |  |  |  |  |  | 15,794 | 13,271 |  |  |  |  | 15,773 | 13,259 |  |
| 4/8/2020 | FALSE | FALSE | FALSE | 3.65 | 8.28 | 6.28 | 58\% | 44\% | 76\% |  | 1.32 | 6.071034 | 6.20 |  |  |  |  |  |  |  |  | 15,794 | 13,271 |  |  |  |  | 15,773 | 13,259 |  |
| 4/9/2020 | FALSE | FALSE | FALSE | 3.56 | 7.91 | 6.15 | 58\% | 45\% | 78\% |  | 1.29 | 6.067241 | 6.25 | 331.60 | 234.00 | 0.71 |  | 17,008 | 12,002 |  |  | 15,997 | 13,060 |  | 17,008 | 12,002 |  | 15,979 | 13,049 |  |
| 4/10/2020 | FALSE | FALSE | FALSE | 3.54 | 7.63 | 5.96 | 59\% | 46\% | 78\% |  | 1.28 | 6.058621 | 6.27 | 270.20 | 280.00 | 1.04 |  | 13,431 | 13,918 |  |  | 15,630 | 13,182 |  | 13,431 | 13,918 |  | 15,615 | 13,173 |  |
| 4/11/2020 | FALSE | FALSE | false | 3.47 | 8.11 | 5.95 | 58\% | 43\% | 73\% |  | 1.36 | 6.049655 | 6.30 |  |  |  |  |  |  |  |  | 15,341 | 13,575 |  |  |  |  | 15,323 | 13,565 |  |
| 4/12/2020 | FALSE | FALSE | FALSE | 3.38 | 8.21 | 5.86 | 58\% | 41\% | 71\% |  | 1.40 | 6.037241 | 6.28 |  |  |  |  |  |  |  |  | 15,341 | 13,575 |  |  |  |  | 15,323 | 13,565 |  |
| 4/13/2020 | FALSE | FALSE | FALSE | 3.41 | 7.84 | 5.79 | 59\% | 43\% | 74\% |  | 1.35 | 6.025172 | 6.15 |  |  |  |  |  |  |  |  | 15,067 | 13,597 |  |  |  |  | 15,067 | 13,597 |  |
| 4/14/2020 | FALSE | FALSE | FALSE | 3.34 3.3 | 7.78 | 5.80 | 58\% | 43\% | 75\% |  | 1.34 | 6.017667 | 6.02 |  |  |  |  |  |  |  |  | 15,067 | 13,597 |  |  |  |  | 15,067 | 13,597 |  |
| 4/15/2020 | FALSE | FALSE | FALSE | 3.43 | 7.66 | 5.88 | 58\% | 45\% | 77\% |  | 1.30 | 6.015333 | 5.96 | 310.80 | 260.00 | 0.84 |  | 15,241 | 12,750 |  |  | 15,096 | 13,456 |  | 15,241 | 12,750 |  | 15,096 | 13,456 |  |
| 4/16/2020 | FALSE | FALSE | FALSE | 3.42 | 7.69 | 5.89 | 58\% | 44\% | 77\% |  | 1.31 | 6.015 | 5.91 |  |  |  |  |  |  |  |  | 15,096 | 13,456 |  |  |  |  | 15,096 | 13,456 |  |
| 4/17/2020 | FALSE | FALSE | FALSE | 3.42 3.43 | 7.55 | 5.85 588 | 55\% | 45\% | 77\% |  | 1.29 | ${ }_{5085333}$ | 5.87 586 |  |  |  |  |  |  |  |  | 15,096 | 13,456 |  |  |  |  | 15,096 | 13,456 |  |
| 4/18/2020 | FALSE | FALSE | FALSE | 3.43 | 7.90 | 5.88 | 58\% | 43\% | 74\% |  | 1.34 | 5.985333 | 5.86 |  |  |  |  |  |  |  |  | 15,054 | 14,018 |  |  |  |  | 15,054 | 14,018 |  |
| 4/19/2020 | FALSE | FALSE | FALSE | 3.42 | 8.13 | 5.82 | 59\% | 42\% | 72\% |  | 1.40 | 5.977 | 5.85 |  |  |  |  |  |  |  |  | 15,054 | 14,018 |  |  |  |  | 15,054 | 14,018 |  |
| 4/20/2020 | FALSE | FALSE | ${ }_{\text {FALSE }}$ | 3.38 <br> 3.38 | 7.75 7.71 | 5.91 5.79 | 57\% | 44\% | 76\% |  | 1.31 1.33 | ${ }_{5}^{5.9756677}$ | 5.85 5.85 |  |  |  |  |  |  |  |  | 15,054 15054 | 14,018 14,018 |  |  |  |  | 15,054 15054 | 14,018 14,018 |  |
| $\begin{aligned} & 4 / 21 / 2020 \\ & 4 / 22 / 2020 \end{aligned}$ | ${ }^{\text {FAALSE }}$ | FALSE | ${ }_{\text {FALSE }}$ FALSE | 3.38 3.45 | $\begin{aligned} & 7.71 \\ & 7.60 \end{aligned}$ | 5.79 5.79 | 58\% | 44\% | $\begin{aligned} & 75 \% \\ & 76 \% \\ & 76 \% \end{aligned}$ |  | 1.33 1.31 | ${ }_{5.972667}^{5}$ | 5.85 5.85 |  |  |  |  |  |  |  |  | 15,054 15,054 | 14,018 14,018 |  |  |  |  | 15,054 15,054 | 14,018 14,018 |  |
| 4/23/2020 | FALSE | FALSE | false | 3.36 | 7.55 | 5.76 | 58\% | 45\% | 76\% |  | 1.31 | 5.962 | 5.84 | 146.60 | 288.00 | 1.92 |  | 7,042 | 13,547 |  |  | 13,719 | 13,939 |  | 7,042 | 13,547 |  | 13,719 | 13,939 |  |
| 4/24/2020 | FALSE | FALSE | false | 3.39 | 7.38 | 5.68 | 60\% | 46\% | 77\% |  | 1.30 | 5.952903 | 5.81 |  |  |  |  |  |  |  |  | 13,719 | 13,939 |  |  |  |  | 13,719 | 13,939 |  |
| 4/25/2020 | FALSE | FALSE | FALSE | 3.34 | 7.73 | 5.69 | 59\% | 43\% | 74\% |  | 1.36 | 5.942581 | 5.79 |  |  |  |  |  |  |  |  | 13,856 | 13,559 |  |  |  |  | 13,856 | 13,559 |  |
| 4/26/2020 | FALSE | FALSE | FALSE | 3.35 | 7.73 | 5.71 | 59\% | 43\% | 74\% |  | 1.35 | 5.93871 | 5.77 |  |  |  |  |  |  |  |  | 13,856 | 13,559 |  |  |  |  | 13,856 | 13,559 |  |
| 4/27/2020 | FALSE | FALSE | FALSE | 3.40 | 7.45 | 5.72 | 59\% | 46\% | 77\% |  | 1.30 | 5.934516 | 5.76 |  |  |  |  |  |  |  |  | 13,856 | 13,559 |  |  |  |  | 13,856 | 13,559 |  |
| 4/28/2020 | FALSE | FALSE | FALSE | 3.41 | 7.63 | 5.69 | 60\% | 45\% | 75\% |  | 1.34 | 5.927097 | 5.73 |  |  |  |  |  |  |  |  | 13,856 | 13,559 |  |  |  |  | 13,856 | 13,559 |  |
| 4/29/2020 | FALSE | false | FALSE | 3.37 | 7.49 | 4.78 | 71\% | 45\% | 64\% | MinAvg | 1.57 | ${ }_{5}^{5.929667}$ | 5.72 | 317.50 | 282.00 | 0.89 |  | 12,657 | 11,242 |  |  | 13,656 | 13,173 |  | 12,657 | 11,242 |  | 13,656 | 13,173 |  |
| 4/30/2020 | FALSE | FALSE | FALSE | 0.00 | 0.00 | 0.00 |  |  |  | gMinMaxA' |  | 5.93069 | 5.71 |  |  |  |  |  |  |  |  | 13,656 | 13,173 |  |  |  |  | 13,656 | 13,173 |  |
| 5/1/2020 | FALSE | FALSE | false | 5.41 | 7.22 | 6.72 | 81\% | 75\% | 93\% | 'gMinMaxA' | 1.07 | 5.933571 | 5.70 |  |  |  |  |  |  |  |  | 13,656 | 13,173 |  |  |  |  | 13,656 | 13,173 |  |
| 5/2/2020 | FALSE | FALSE | FALSE | 3.44 | 7.86 | 5.82 | 59\% | 44\% | 74\% |  | 1.35 | 5.935714 | 5.73 |  |  |  |  |  |  |  |  | 13,656 | 13,173 |  |  |  |  | 13,656 | 13,173 |  |
| 5/3/2020 | FALSE | FALSE | FALSE | 3.29 | 7.98 | 5.75 | 57\% | 41\% | 72\% |  | 1.39 | 5.936429 5 | 5.74 |  |  |  |  |  |  |  |  | 13,076 | 12,692 |  |  |  |  | 13,076 | 12,692 |  |
| 5/4/2020 | FALSE | FALSE | FALSE | 3.44 | 7.70 | 5.80 | 59\% | 45\% | 75\% |  | 1.33 | 5.939643 | 5.76 |  |  |  |  |  |  |  |  | 13,076 | 12,692 |  |  |  |  | 13,076 | 12,692 |  |
| 5/5/2020 | FALSE | FALSE | FALSE | 3.39 | 7.64 | 5.75 | 59\% | 44\% | 75\% |  | 1.33 | 5.988214 | 5.76 |  |  |  |  |  |  |  |  | 13,076 | 12,692 |  |  |  |  | 13,076 | 12,692 |  |
| 5/6/2020 | FALSE | false | FALSE | 3.40 | 7.40 | 5.74 | 59\% | 46\% | 78\% |  | 1.29 | 5.889643 | 5.77 |  |  |  |  |  |  |  |  | 13,076 | 12,692 |  |  |  |  | 13,076 | 12,692 |  |
| 5/7/72020 | FALSE | FALSE | FALSE | 3.36 3 | 7.43 | 5.68 5 | 59\%\% | 45\% | 76\% |  | 1.31 | ${ }_{5}^{5.848929}$ | 5.76 5 5.5 | 349.90 | 248.00 | 0.71 |  | 16,575 | 11,748 |  |  | 13,659 | 12,534 12534 |  | 16,575 | 11,748 |  | 13,659 | 12,534 |  |
| 5/8//2020 | FALSE | FALSE | FALSE | 3.42 | 7.46 | 5.71 | 60\% | 46\% | 77\% |  | 1.31 | 5.825 | 5.75 |  |  |  |  |  |  |  |  | 13,659 | 12,534 |  |  |  |  | 13,659 | 12,534 |  |
| 5/9/2020 $5 / 10 / 2020$ | ${ }_{\text {FALSE }}^{\text {FALSE }}$ | FALSE | FAALSE | 3.38 <br> 3.31 | 7.54 7.62 | 5.54 5.54 | 61\% $60 \%$ | 45\% | 73\% |  | 1.36 1.38 1.15 | 5.798571 5 5 | 5.72 5.69 |  |  |  |  |  |  |  |  | 13,659 | 12,534 |  |  |  |  | 13,659 | 12,534 |  |
| $\begin{aligned} & 5 / 10 / 2020 \\ & 5 / 11 / 2020 \end{aligned}$ | FALSE | FALSE | ${ }_{\text {FALSE }}^{\text {TRUE }}$ | 3.31 3.37 | 7.62 7.89 | 5.54 6.00 | 60\% | 43\% | 73\% |  | 1.38 1.32 | 5.776786 5 | 5.69 5.72 |  |  |  |  |  |  |  |  | 12,989 12,879 | 12,641 12,322 |  |  |  |  | 12,989 12,879 | 12,641 12,322 |  |
| 5/12/2020 | FALSE | FALSE | TrUE | 3.00 | 7.70 | 5.94 | 51\% | 39\% | 77\% |  | 1.30 | 5.777857 | 5.74 |  |  |  |  |  |  |  |  | 12,879 | 12,322 |  |  |  |  | 12,879 | 12,322 |  |
| 5/13/2020 | false | false | false | 3.42 | 7.70 | 5.98 | 57\% | 44\% | 78\% |  | 1.29 | 5.782143 | 5.77 |  |  |  |  |  |  |  |  | 12,879 | 12,322 |  |  |  |  | 12,879 | 12,322 |  |


| Date | $\begin{aligned} & \text { Butte } \\ & \text { Break? } \end{aligned}$ | $\begin{gathered} \text { CSU } \\ \text { Break? } \end{gathered}$ | Precip? | $\begin{gathered} \text { Min } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | $\begin{gathered} \text { Max } \\ \substack{\text { Influent } \\ \text { Flow, mgd }} \end{gathered}$ | $\begin{gathered} \text { Avg } \\ \text { Influent } \\ \text { I Flow, mgd } \end{gathered}$ | $\begin{aligned} & \text { Min \% of } \\ & \text { Avg } \end{aligned}$ | $\underset{\text { Max }}{\operatorname{Min}_{\text {ma }}}$ | $\text { Avg } \% \text { of }$ Max | $\begin{aligned} & \text { Flow } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | $\begin{aligned} & \text { Diurnal } \\ & \text { Peak } \\ & \text { Factor } \\ & \text { (DPF) } \end{aligned}$ | $\begin{aligned} & 30-\mathrm{d} \text { Avg } \\ & \text { of Avg } \\ & \text { Flow, mgd } \end{aligned}$ | 7-d Avg of Avg Flow, mgd | Influent TSS Conc., mg/L | Influent BOD Conc., mg/l | $\begin{aligned} & \text { BoD/TSS } \\ & \text { Ratio } \end{aligned}$ | Influent NH3-N Conc., mg/L | Avg lnf TSS Load, ppd | $\begin{gathered} \text { Avg Inf } \\ \text { BOD Load, } \\ \text { ppd } \end{gathered}$ | Avg $\operatorname{lnf}$ NH3 Load, ppd | $\begin{aligned} & \text { Load } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | 30-d Avg of TSS Load, ppd | 30-d Avg of BOD Load, ppd | 30-d Avg of NH3-N Load, ppd | non-SN TSS Load, ppd | non-SN ppd | non-SN ppd | $\begin{gathered} \text { 30-d Avg } \\ \text { of non-SN } \\ \text { TSS Load, } \\ \text { ppd } \end{gathered}$ |  | $\begin{aligned} & \text { 30-d Avg } \\ & \text { of non-SN } \\ & \text { NH3-N } \\ & \text { Load, ppd } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5/14/2020 | FALSE | FALSE | FALSE | 3.42 | 7.70 | 5.98 | 57\% | 44\% | 78\% |  | 1.29 | 5.788929 | 5.80 | 242.90 | 389.00 | 1.60 |  | 12,114 | 19,401 |  |  | 12,726 | 13,738 |  | 12,114 | 19,401 |  | 12,726 | 13,738 |  |
| 5/15/2020 | false | FALSE | FALSE | 3.48 | 7.68 | 5.80 | 60\% | 45\% | 76\% |  | 1.32 | 5.788929 | 5.81 |  |  |  |  |  |  |  |  | 12,726 | 13,738 |  |  |  |  | 12,726 | 13,738 |  |
| 5/16/2020 | FALSE | FALSE | TRUE | 3.36 | 7.86 | 5.83 | 58\% | 43\% | 74\% |  | 1.35 | 5.787143 | 5.83 |  |  |  |  |  |  |  |  | 12,097 | 13,984 |  |  |  |  | 12,097 | 13,984 |  |
| 5/17/2020 | false | true | true | 3.63 | 8.92 | 6.47 | 56\% | 41\% | 73\% |  | 1.38 | 5.807857 | 5.94 |  |  |  |  |  |  |  |  | 12,097 | 13,984 |  |  |  |  | 12,097 | 13,984 |  |
| 5/18/2020 | false | True | True | 3.97 | 8.79 | 6.84 | 58\% | 45\% | 78\% |  | 1.29 | 5.843214 | 6.11 |  |  |  |  |  |  |  |  | 12,097 | 13,984 |  |  |  |  | 12,097 | 13,984 |  |
| 5/19/2020 | false | True | true | 3.74 | 8.37 | 6.55 | 57\% | 45\% | 78\% |  | 1.28 | 5.867143 | 6.17 |  |  |  |  |  |  |  |  | 12,097 | 13,984 |  |  |  |  | 12,097 | 13,984 |  |
| 5/20/2020 | FALSE | TRUE | TRUE | 3.97 | 8.31 | 6.63 | 60\% | 48\% | 80\% |  | 1.25 | 5.896071 | 6.26 | 309.40 | 293.00 | 0.95 |  | 17,108 | 16,201 |  |  | 13,099 | 14,428 |  | 16,898 | 16,127 |  | 13,057 | 14,413 |  |
| 5/21/2020 | false | True | FALSE | 3.69 | 8.25 | 6.35 | 58\% | 45\% | 77\% |  | 1.30 | 5.911786 | 6.31 |  |  |  |  |  |  |  |  | 13,099 | 14,428 |  |  |  |  | 13,057 | 14,413 |  |
| 5/22/2020 | FALSE | TRUE | FALSE | 3.55 | 7.95 | 6.17 | 58\% | 45\% | 78\% |  | 1.29 | 5.925357 | 6.33 |  |  |  |  |  |  |  |  | 13,099 | 14,428 |  |  |  |  | 13,057 | 14,413 |  |
| 5/23/2020 | false | TRUE | FALSE | 3.63 | 7.74 | 5.89 | 62\% | 47\% | 76\% |  | 1.31 | 5.928929 | 6.34 |  |  |  |  |  |  |  |  | 13,099 | 14,428 |  |  |  |  | 13,057 | 14,413 |  |
| 5/24/2020 | false | true | FALSE | 3.43 | 7.50 | 5.64 | 61\% | 46\% | 75\% |  | 1.33 | 5.924643 | 6.32 |  |  |  |  |  |  |  |  | 14,614 | 14,648 |  |  |  |  | 14,561 | 14,629 |  |
| 5/25/2020 | false | true | FALSE | 3.65 | 7.86 | 5.89 | 62\% | 46\% | 75\% |  | 1.33 | 5.932143 | 6.25 |  |  |  |  |  |  |  |  | 14,614 | 14,648 |  |  |  |  | 14,561 | 14,629 |  |
| 5/26/2020 | false | TRUE | FALSE | 3.67 | 7.46 | 5.91 | 62\% | 49\% | 79\% |  | 1.26 | 5.94 | 6.13 |  |  |  |  |  |  |  |  | 14,614 | 14,648 |  |  |  |  | 14,561 | 14,629 |  |
| 5/27/2020 | false | true | FALSE | 3.61 | 7.63 | 5.97 | 60\% | 47\% | 78\% |  | 1.28 | 5.949286 | 6.06 | 272.20 | 349.00 | 1.28 |  | 13,553 | 17,377 |  |  | 14,401 | 15,194 |  | 13,553 | 17,377 |  | 14,359 | 15,179 |  |
| 5/28/2020 | false | TRUE | FALSE | 3.89 | 7.65 | 6.10 | 64\% | 51\% | 80\% |  | 1.25 | 5.962857 | 5.99 |  |  |  |  |  |  |  |  | 14,401 | 15,194 |  |  |  |  | 14,359 | 15,179 |  |
| 5/29/2020 | true | true | FALSE | 3.75 | 7.76 | 6.14 | 61\% | 48\% | 79\% |  | 1.26 | 5.978929 | 5.96 |  |  |  |  |  |  |  |  | 14,401 | 15,194 |  |  |  |  | 14,359 | 15,179 |  |
| 5/30/2020 | TRUE | TRUE | True | 3.68 | 8.08 | 6.07 | 61\% | 46\% | 75\% |  | 1.33 | 5.982069 | 5.95 |  |  |  |  |  |  |  |  | 14,838 | 16,182 |  |  |  |  | 14,785 | 16,163 |  |
| 5/31/2020 | true | true | FALSE | 3.60 | 8.11 | 6.01 | 60\% | 44\% | 74\% |  | 1.35 | 5.983 | 5.97 |  |  |  |  |  |  |  |  | 14,838 | 16,182 |  |  |  |  | 14,785 | 16,163 |  |
| 6/1/2020 | TRUE | TRUE | FALSE | 3.65 | 7.51 | 5.96 | 61\% | 49\% | 79\% |  | 1.26 | 5.982258 | 6.01 |  |  |  |  |  |  |  |  | 14,838 | 16,182 |  |  |  |  | 14,785 | 16,163 |  |
| 6/2/2020 | true | true | FALSE | 3.47 | 7.40 | 5.79 | 60\% | 47\% | 78\% |  | 1.28 | 5.98129 | 5.99 |  |  |  |  |  |  |  |  | 14,838 | 16,182 |  |  |  |  | 14,785 | 16,163 |  |
| 6/3/2020 | true | TRUE | FALSE | 3.51 | 7.57 | 5.84 | 60\% | 46\% | 77\% |  | 1.30 | 5.984194 | 5.99 | 326.40 | 324.00 | 0.99 |  | 15,898 | 15,781 |  |  | 15,050 | 16,101 |  | 15,898 | 15,781 |  | 15,007 | 16,087 |  |
| 6/4/2020 | true | true | FALSE | 3.49 | 7.42 | 5.81 | 60\% | 47\% | 78\% |  | 1.28 | 5.984516 | 5.97 |  |  |  |  |  |  |  |  | 15,050 | 16,101 |  |  |  |  | 15,007 | 16,087 |  |
| 6/5/2020 | true | TRUE | FALSE | 3.46 | 7.52 | 5.93 | 58\% | 46\% | 79\% |  | 1.27 | 5.990323 | 5.94 |  |  |  |  |  |  |  |  | 15,050 | 16,101 |  |  |  |  | 15,007 | 16,087 |  |
| 6/6/2020 | true | true | TRUE | 3.49 | 7.85 | 5.86 | 60\% | 44\% | 75\% |  | 1.34 | 5.994194 | 5.91 |  |  |  |  |  |  |  |  | 15,050 | 16,101 |  |  |  |  | 15,007 | 16,087 |  |
| 6/7/2020 | TRUE | TRUE | FALSE | 3.31 | 7.88 | 5.73 | 58\% | 42\% | 73\% |  | 1.38 | 5.995806 | 5.87 |  |  |  |  |  |  |  |  | 14,668 | 17,190 |  |  |  |  | 14,616 | 17,171 |  |
| 6/8/2020 | true | true | FALSE | 3.32 | 7.41 | 5.77 | 58\% | 45\% | 78\% |  | 1.28 | 5.997742 | 5.84 |  |  |  |  |  |  |  |  | 14,668 | 17,190 |  |  |  |  | 14,616 | 17,171 |  |
| 6/9/2020 | True | TRUE | FALSE | 3.53 | 7.36 | 5.82 | 61\% | 48\% | 79\% |  | 1.26 | 6.006774 | 5.82 |  |  |  |  |  |  |  |  | 14,668 | 17,190 |  |  |  |  | 14,616 | 17,171 |  |
| 6/10/2020 | true | true | FALSE | 3.43 | 7.37 | 5.77 | 59\% | 47\% | 78\% |  | 1.28 | 6.014194 | 5.82 |  |  |  |  |  |  |  |  | 14,668 | 17,190 |  |  |  |  | 14,616 | 17,171 |  |
| 6/11/2020 | TRUE | TRUE | FALSE | 3.50 | 7.40 | 5.82 | 60\% | 47\% | 79\% |  | 1.27 | 6.008387 | 5.81 | 328.80 | 245.00 | 0.75 |  | 15,960 | 11,892 |  |  | 14,926 | 16,130 |  | 15,960 | 11,892 |  | 14,884 | 16,115 |  |
| 6/12/2020 | TRUE | true | TRUE | 3.38 | 7.25 | 5.94 | 57\% | 47\% | 82\% |  | 1.22 | 6.008387 | 5.83 |  |  |  |  |  |  |  |  | 14,926 | 16,130 |  |  |  |  | 14,884 | 16,115 |  |
| 6/13/2020 | TRUE | TRUE | TRUE | 2.08 | 7.69 | 5.72 | 36\% | 27\% | 74\% | MinAvg | 1.34 | 6.009333 | 5.82 |  |  |  |  |  |  |  |  | 14,926 | 16,130 |  |  |  |  | 14,884 | 16,115 |  |
| 6/14/2020 | TRUE | true | FALSE | 3.37 | 7.55 | 5.64 | 60\% | 45\% | 75\% |  | 1.34 | 5.998 | 5.78 |  |  |  |  |  |  |  |  | 15,629 | 15,313 |  |  |  |  | 15,577 | 15,294 |  |
| 6/15/2020 | True | TRUE | FALSE | 3.44 | 7.53 | 5.93 | 58\% | 46\% | 79\% |  | 1.27 | 6.002333 | 5.81 |  |  |  |  |  |  |  |  | 15,629 | 15,313 |  |  |  |  | 15,577 | 15,294 |  |
| 6/16/2020 | TRUE | TRUE | FALSE | 3.52 | 7.41 | 5.75 | 61\% | 48\% | 78\% |  | 1.29 | 5.999667 | 5.81 |  |  |  |  |  |  |  |  | 15,629 | 15,313 |  |  |  |  | 15,577 | 15,294 |  |
| 6/17/2020 | True | TRUE | FALSE | 3.45 | 7.39 | 5.79 | 60\% | 47\% | 78\% |  | 1.28 | 5.977 | 5.81 | 334.80 | 244.00 | 0.73 |  | 16,167 | 11,782 |  |  | 15,737 | 14,607 |  | 16,167 | 11,782 |  | 15,695 | 14,592 |  |
| 6/18/2020 | TRUE | TRUE | FALSE | 3.42 | 7.24 | 5.71 | 60\% | 47\% | 79\% |  | 1.27 | 5.939333 | 5.80 |  |  |  |  |  |  |  |  | 15,737 | 14,607 |  |  |  |  | 15,695 | 14,592 |  |
| 6/19/2020 | True | TRUE | FALSE | 3.58 | 7.21 | 5.77 | 62\% | 50\% | 80\% |  | 1.25 | 5.913333 | 5.79 |  |  |  |  |  |  |  |  | 15,737 | 14,607 |  |  |  |  | 15,695 | 14,592 |  |
| 6/20/2020 | TRUE | TRUE | FALSE | 3.35 | 7.47 | 5.58 | 60\% | 45\% | 75\% |  | 1.34 | 5.878333 | 5.74 |  |  |  |  |  |  |  |  | 15,394 | 14,208 |  |  |  |  | 15,394 | 14,208 |  |
| 6/21/2020 | TRUE | TRUE | FALSE | 3.31 | 7.37 | 5.49 | 60\% | 45\% | 74\% |  | 1.34 | 5.849667 | 5.71 |  |  |  |  |  |  |  |  | 15,394 | 14,208 |  |  |  |  | 15,394 | 14,208 |  |
| 6/22/2020 | TRUE | TRUE | FALSE | 3.41 | 7.35 | 5.78 | 59\% | 46\% | 79\% |  | 1.27 | 5.836667 | 5.73 |  |  |  |  |  |  |  |  | 15,394 | 14,208 |  |  |  |  | 15,394 | 14,208 |  |
| 6/23/2020 | true | TRUE | FALSE | 3.39 | 7.37 | 5.81 | 58\% | 46\% | 79\% |  | 1.27 | 5.834 | 5.71 |  |  |  |  |  |  |  |  | 15,394 | 14,208 |  |  |  |  | 15,394 | 14,208 |  |
| 6/24/2020 | TRUE | TRUE | FALSE | 3.45 | 7.33 | 5.84 | 59\% | 47\% | 80\% |  | 1.26 | ${ }^{5.840667}$ | 5.72 | 353.50 | 243.00 | 0.69 |  | 17,217 | 11,835 |  |  | 15,759 | 13,733 |  | 17,217 | 11,835 |  | 15,759 | 13,733 |  |
| 6/25/2020 | TRUE | TRUE | FALSE | 3.48 | 7.31 | 5.79 | 60\% | 48\% | 79\% |  | 1.26 | 5.837333 | 5.72 |  |  |  |  |  |  |  |  | 15,759 | 13,733 |  |  |  |  | 15,759 | 13,733 |  |
| 6/26/2020 | TRUE | TRUE | FALSE | 3.60 | 7.20 | 5.76 | 63\% | 50\% | 80\% |  | 1.25 | 5.832333 | 5.73 |  |  |  |  |  |  |  |  | 15,759 | 13,733 |  |  |  |  | 15,759 | 13,733 |  |
| 6/27/2020 | TRUE | TRUE | FALSE | 3.47 | 7.47 | 5.66 | 61\% | 46\% | 76\% |  | 1.32 | 5.822 | 5.71 |  |  |  |  |  |  |  |  | 16,310 | 12,823 |  |  |  |  | 16,310 | 12,823 |  |
| 6/28/2020 | TRUE | TRUE | FALSE | 3.35 | 7.60 | 5.75 | 58\% | 44\% | 76\% |  | 1.32 | 5.810333 | 5.74 |  |  |  |  |  |  |  |  | 16,310 | 12,823 |  |  |  |  | 16,310 | 12,823 |  |
| 6/29/2020 | TRUE | TRUE | FALSE | 3.35 | 7.32 | 5.79 | 58\% | 46\% | 79\% |  | 1.26 | 5.798667 | 5.77 |  |  |  |  |  |  |  |  | 16,310 | 12,823 |  |  |  |  | 16,310 | 12,823 |  |
| 6/30/2020 | TRUE | TRUE | FALSE | 3.57 | 7.33 | 5.80 | 62\% | 49\% | 79\% |  | 1.26 | 5.789667 | 5.78 |  |  |  |  |  |  |  |  | 16,310 | 12,823 |  |  |  |  | 16,310 | 12,823 |  |
| 7/1/2020 | True | True | FALSE | 3.49 | 7.31 | 5.80 | 60\% | 48\% | 79\% |  | 1.26 | 5.782667 | 5.77 | 312.40 | 150.00 | 0.48 |  | 15,111 | 7,256 |  |  | 16,071 | 11,709 |  | 15,111 | 7,256 |  | 16,071 | 11,709 |  |
| 7/2/2020 | TRUE | TRUE | FALSE | 3.47 | 7.25 | 5.81 | 60\% | 48\% | 80\% |  | 1.25 | 5.777667 | 5.77 |  |  |  |  |  |  |  |  | 16,071 | 11,709 |  |  |  |  | 16,071 | 11,709 |  |
| 7/3/2020 | TRUE | TRUE | FALSE | 3.48 | 7.50 | 5.71 | 61\% | 46\% | 76\% |  | 1.31 | 5.775 | 5.76 |  |  |  |  |  |  |  |  | 16,071 | 11,709 |  |  |  |  | 16,071 | 11,709 |  |
| 7/4/2020 | TRUE | TRUE | FALSE | 3.41 | 7.23 | 5.29 | 64\% | 47\% | 73\% |  | 1.37 | 5.756667 | 5.70 |  |  |  |  |  |  |  |  | 16,114 | 10,691 |  |  |  |  | 16,114 | 10,691 |  |
| 7/5/2020 | TRUE | TRUE | FALSE | 3.30 | 7.21 | 5.34 | 62\% | 46\% | 74\% |  | 1.35 | 5.741 | 5.66 |  |  |  |  |  |  |  |  | 16,114 | 10,691 |  |  |  |  | 16,114 | 10,691 |  |
| 7/6/2020 | TRUE | TRUE | FALSE | 3.42 | 7.34 | 5.80 | 59\% | 47\% | 79\% |  | 1.27 | 5.736667 | 5.67 |  |  |  |  |  |  |  |  | 16,114 | 10,691 |  |  |  |  | 16,114 | 10,691 |  |
| 7/7/2020 | TRUE | TRUE | FALSE | 3.39 | 7.32 | 5.78 | 59\% | 46\% | 79\% |  | 1.27 | 5.734 | 5.67 |  |  |  |  |  |  |  |  | 16,114 | 10,691 |  |  |  |  | 16.114 | 10,691 |  |
| 7/8/2020 | TRUE | TRUE | FALSE | 3.51 | 7.27 | 5.84 | 60\% | 48\% | 80\% |  | 1.24 | 5.737667 | 5.67 |  |  |  |  |  |  |  |  | 16,114 | 10,691 |  |  |  |  | 16,114 | 10,691 |  |
| 7/9/2020 | TRUE | TRUE | FALSE | 3.43 | 7.23 | 5.73 | 60\% | 47\% | 79\% |  | 1.26 | 5.736333 | 5.66 |  |  |  |  |  |  |  |  | 16,114 | 10,691 |  |  |  |  | 16,114 | 10,691 |  |
| 7/10/2020 | TRUE | TRUE | FALSE | 3.47 | 7.29 | 5.74 | 60\% | 48\% | 79\% |  | 1.27 | 5.737667 | 5.65 | 331.50 | 224.00 | 0.68 |  | 15,869 | 10,723 |  |  | 16,065 | 10,698 |  | 15,869 | 10,723 |  | 16,065 | 10,698 |  |
| 7/11/2020 | TRUE | TRUE | FALSE | 3.56 | 7.43 | 5.58 | 64\% | 48\% | 75\% |  | 1.33 | 5.7277333 | 5.64 |  |  |  |  |  |  |  |  | 16,065 | 10,698 |  |  |  |  | 16,065 | 10,698 |  |
| 7/12/2020 | TRUE | TRUE TRUE | FALSE | 3.36 3.39 3 | 7.33 <br> 7.42 | 5.52 5.80 | 61\% | 46\% | 75\% |  | 1.33 1.28 1 | 5.717333 5.712667 | 5.67 5.72 |  |  |  |  |  |  |  |  | 16,091 | 10,399 10,399 |  |  |  |  | 16,091 | 10,399 10,399 |  |
| 7/14/2020 | TRUE | TRUE | FALSE | 3.69 3.50 | 7.42 7.41 | 5.80 5.85 | 60\% | 47\% | 79\% |  | 1.27 | 5.172667 5.717097 | 5.73 |  |  |  |  |  |  |  |  | 16,091 | 10,399 |  |  |  |  | 16,091 | 10,399 |  |
| 7/15/2020 | true | true | FALSE | 3.53 | 7.34 | 5.89 | 60\% | 48\% | 80\% |  | 1.25 | 5.725161 | 5.74 | 290.40 | 250.00 | 0.86 |  | 14,265 | 12,281 |  |  | 15,726 | 10,776 |  | 14,265 | 12,281 |  | 15,726 | 10,776 |  |



| Date | $\begin{gathered} \text { Butte } \\ \text { Break? } \end{gathered}$ | $\begin{gathered} \text { csu } \\ \text { Break? } \end{gathered}$ | Precip? |  | $\begin{gathered} \text { Max } \\ \text { Influent } \\ \text { Flow, } \mathrm{mgd} \end{gathered}$ | $\begin{gathered} \text { Avg } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | Min \% of | Min \% of Max | $\begin{aligned} & \text { Avg \% of } \\ & \text { Max } \end{aligned}$ | $\begin{aligned} & \text { Flow } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | $\begin{aligned} & \text { Diurnal } \\ & \text { Peak } \\ & \text { Factor } \\ & \text { (DPF) } \end{aligned}$ | $\begin{gathered} \text { 30-d Avg } \\ \text { of Avg } \\ \text { Flow, mgd } \end{gathered}$ | 7-d Avg of Avg Flow, mgd | Influent TSS Conc., mg/L | $\begin{gathered} \text { Influent } \\ \text { BoD } \\ \text { Conc., } \\ \mathrm{mg} / \mathrm{L} \end{gathered}$ | $\begin{aligned} & \text { BoD/TSS } \\ & \text { Ratio } \end{aligned}$ | Influent NH3-N Conc., mg/L | Avg Inf TSS Load, ppd | Avg inf BOD Load, ppd | Avg linf NH3 Load, ppd | $\begin{aligned} & \text { Load } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | $\begin{gathered} \text { 30-d AVg } \\ \text { of TSS } \end{gathered}$ Load, ppd | 30-d Avg of BOD Load, ppd | 30-d Avg of NH3-N Load, ppd | non-SN TSS Load, ppd | non-SN BOD Load, ppd | non-SN NH3 Load, ppd | 30-d Avg of non-SN TSS Load, ppo | $\begin{aligned} & \text { 30-d Avg } \\ & \text { of non-SN } \\ & \text { BOD Load, } \end{aligned}$ ppd | $\begin{gathered} \text { 30-d Avg } \\ \text { of non-SN } \\ \text { NH3-N } \\ \text { Load, ppd } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 9/17/2020 | FALSE | FALSE | FALSE | 3.57 | 8.10 | 6.15 | 58\% | 44\% | 76\% |  | 1.32 | 6.10871 | 6.16 | 306.30 | 218.00 | 0.71 |  | 15,710 | 11,181 |  |  | 15,300 | 13,022 |  | 15,710 | 11,181 |  | 14,957 | 12,959 |  |
| 9/18/2020 | FALSE | FALSE | FALSE | 3.55 | 7.99 | 6.23 | 57\% | 44\% | 78\% |  | 1.28 | 6.115884 | 6.16 |  |  |  |  |  |  |  |  | 15,300 | 13,022 |  |  |  |  | 14,957 | 12,959 |  |
| 9/19/2020 | FALSE | FALSE | FALSE | 3.53 | 8.22 | 6.08 | 58\% | 43\% | 74\% |  | 1.35 | 6.114839 | 6.14 |  |  |  |  |  |  |  |  | 15,018 | 13,708 |  |  |  |  | 15,018 | 13,708 |  |
| 9/20/2020 | FALSE | FALSE | FALSE | 3.39 | 8.20 | 6.02 | 56\% | 41\% | 73\% |  | 1.36 | 6.110645 | 6.13 |  |  |  |  |  |  |  |  | 15,018 | 13,708 |  |  |  |  | 15,018 | 13,708 |  |
| 9/21/2020 | FALSE | FALSE | FALSE | 3.48 | 8.05 | 6.17 | 56\% | 43\% | 77\% |  | 1.30 | 6.114516 | 6.14 |  |  |  |  |  |  |  |  | 15,018 | 13,708 |  |  |  |  | 15,018 | 13,708 |  |
| 9/22/2020 | FALSE | FALSE | FALSE | 3.56 | 8.24 | 6.19 | 58\% | 43\% | 75\% |  | 1.33 | 6.119355 | 6.15 |  |  |  |  |  |  |  |  | 15,018 | 13,708 |  |  |  |  | 15,018 | 13,708 |  |
| 9/23/2020 | FALSE | FALSE | FALSE | 3.59 | 8.20 | 6.24 | 58\% | 44\% | 76\% |  | 1.31 | 6.121935 | 6.16 | 313.00 | 232.00 | 0.74 |  | 16,289 | 12,074 |  |  | 15,272 | 13,381 |  | 16,289 | 12,074 |  | 15,272 | 13,381 |  |
| 9/24/2020 | FALSE | FALSE | FALSE | 3.56 | 8.20 | 6.21 | 57\% | 43\% | 76\% |  | 1.32 | 6.122258 | 6.16 |  |  |  |  |  |  |  |  | 15,272 | 13,381 |  |  |  |  | 15,272 | 13,381 |  |
| 9/25/2020 | FALSE | FALSE | FALSE | 3.50 | 8.18 | 6.16 | 57\% | 43\% | 75\% |  | 1.33 | 6.122903 | 6.16 |  |  |  |  |  |  |  |  | 15,272 | 13,381 |  |  |  |  | 15,272 | 13,381 |  |
| 9/26/2020 | FALSE | FALSE | FALSE | 3.53 | 8.00 | 5.98 | 59\% | 44\% | 75\% |  | 1.34 | 6.117419 | 6.13 |  |  |  |  |  |  |  |  | 15,582 | 13,803 |  |  |  |  | 15,582 | 13,803 |  |
| 9/27/2020 | FALSE | FALSE | FALSE | 3.41 | 8.33 | 6.05 | 56\% | 41\% | 73\% |  | 1.38 | 6.114194 | 6.13 |  |  |  |  |  |  |  |  | 15,582 | 13,803 |  |  |  |  | 15,582 | 13,803 |  |
| 9/28/2020 | FALSE | FALSE | FALSE | 3.45 | 8.19 | 6.18 | 56\% | 42\% | 75\% |  | 1.33 | 6.113548 | 6.15 |  |  |  |  |  |  |  |  | 15,582 | 13,803 |  |  |  |  | 15,582 | 13,803 |  |
| 9/29/2020 | FALSE | FALSE | FALSE | 3.52 | 8.01 | 6.10 | 58\% | 44\% | 76\% |  | 1.31 | 6.114516 | 6.14 |  |  |  |  |  |  |  |  | 15,582 | 13,803 |  |  |  |  | 15,582 | 13,803 |  |
| 9/30/2020 | FALSE | FALSE | FALSE | 3.58 | 8.24 | 6.17 | 58\% | 43\% | 75\% |  | 1.34 | 6.117097 | 6.14 | 342.20 | 258.00 | 0.75 |  | 17,609 | 13,276 |  |  | 15,987 | 13,698 |  | 17,609 | 13,276 |  | 15,987 | 13,698 |  |
| 10/1/2020 | FALSE | FALSE | FALSE | 3.57 | 8.18 | 6.20 | 58\% | 44\% | 76\% |  | 1.32 | 6.11871 | 6.13 |  |  |  |  |  |  |  |  | 15,987 | 13,698 |  |  |  |  | 15,987 | 13,698 |  |
| 10/2/2020 | FALSE | FALSE | FALSE | 3.52 | 7.92 | 6.16 | 57\% | 44\% | 78\% |  | 1.29 | 6.122581 | 6.13 |  |  |  |  |  |  |  |  | 15,987 | 13,998 |  |  |  |  | 15,987 | 13,698 |  |
| 10/3/2020 | FALSE | FALSE | FALSE | 3.55 | 8.23 | 6.13 | 58\% | 43\% | 74\% |  | 1.34 | 6.120645 | 6.12 |  |  |  |  |  |  |  |  | 16,284 | 13,212 |  |  |  |  | 16,284 | 13,212 |  |
| 10/4/2020 | FALSE | FALSE | FALSE | 3.45 | 8.35 | 6.09 | 57\% | 41\% | 73\% |  | 1.37 | 6.115484 | 6.14 |  |  |  |  |  |  |  |  | 16,284 | 13,212 |  |  |  |  | 16,284 | 13,212 |  |
| 10/5/2020 | FALSE | FALSE | FALSE | 3.51 | 8.22 | 6.12 | 57\% | 43\% | 74\% |  | 1.34 | 6.113548 | 6.14 |  |  |  |  |  |  |  |  | 16,284 | 13,212 |  |  |  |  | 16,284 | 13,212 |  |
| 10/6/2020 | FALSE | FALSE | FALSE | 3.50 | 8.26 | 6.13 | 57\% | 42\% | 74\% |  | 1.35 | 6.123871 | 6.14 |  |  |  |  |  |  |  |  | 16,284 | 13,212 |  |  |  |  | 16,284 | 13,212 |  |
| 10/7/2020 | FALSE | FALSE | FALSE | 3.56 | 8.28 | 6.19 | 58\% | 43\% | 75\% |  | 1.34 | 6.14129 | 6.15 | 247.20 | 333.00 | 1.35 |  | 12,762 | 17,191 |  |  | 15,580 | 14,007 |  | 12,762 | 17,191 |  | 15,580 | 14,007 |  |
| 10/8/2020 | FALSE | FALSE | FALSE | 3.60 | 8.13 | 6.22 | 58\% | 44\% | 77\% |  | 1.31 | 6.148065 | 6.16 |  |  |  |  |  |  |  |  | 15,580 | 14,007 |  |  |  |  | 15,580 | 14,007 |  |
| 10/9/2020 | FALSE | FALSE | FALSE | 3.49 | 8.03 | 6.20 | 56\% | 43\% | 77\% |  | 1.30 | 6.153226 | 6.16 |  |  |  |  |  |  |  |  | 15,580 | 14,007 |  |  |  |  | 15,580 | 14,007 |  |
| 10/10/2020 | FALSE | FALSE | FALSE | 3.48 | 8.31 | 6.06 | 57\% | 42\% | 73\% |  | 1.37 | 6.147097 | 6.14 |  |  |  |  |  |  |  |  | 15,592 | 13,431 |  |  |  |  | 15,592 | 13,431 |  |
| 10/11/2020 | FALSE | FALSE | FALSE | 3.39 | 8.22 | 6.04 | 56\% | 41\% | 73\% |  | 1.36 | 6.14 | 6.13 |  |  |  |  |  |  |  |  | 15,592 | 13,431 |  |  |  |  | 15,592 | 13,431 |  |
| 10/12/2020 | FALSE | FALSE | FALSE | 3.41 | 8.33 | 6.16 | 55\% | 41\% | 74\% |  | 1.35 | 6.139355 | 6.14 |  |  |  |  |  |  |  |  | 15,592 | 13,431 |  |  |  |  | 15,592 | 13,431 |  |
| 10/13/2020 | FALSE | FALSE | FALSE | 3.49 | 8.26 | 6.12 | 57\% | 42\% | 74\% |  | 1.35 | 6.139355 | 6.14 |  |  |  |  |  |  |  |  | 15,592 | 13,431 |  |  |  |  | 15,592 | 13,431 |  |
| 10/14/2020 | FALSE | FALSE | FALSE | 3.45 | 8.07 | 6.04 | 57\% | 43\% | 75\% |  | 1.34 | 6.136129 | 6.13 | 332.00 | 333.00 | 1.00 |  | 16,724 | 16,774 |  |  | 15,819 | 14,099 |  | 16,724 | 16,774 |  | 15,819 | 14,099 |  |
| 10/15/2020 | FALSE | FALSE | FALSE | 3.44 <br> 3.4 | 8.00 7.75 | 6.07 | 57\% | 43\% | 76\% |  | 1.32 | 6.136774 | 6.11 |  |  |  |  |  |  |  |  | 15,819 | 14,099 |  |  |  |  | 15,819 | 14,099 |  |
| 10/16/2020 | FALSE | FALSE | FALSE | 3.43 | 7.75 | 6.02 | 57\% | 44\% | 78\% |  | 1.29 | 6.131935 | 6.09 |  |  |  |  |  |  |  |  | 15,819 | 14,099 |  |  |  |  | 15,819 | 14,099 |  |
| 10/17/2020 | FALSE | FALSE | FALSE | 3.45 | 7.79 | 5.86 | 59\% | 44\% | 75\% |  | 1.33 | 6.120645 | 6.05 |  |  |  |  |  |  |  |  | 15,819 | 14,099 |  |  |  |  | 15,819 | 14,099 |  |
| 10/18/2020 | FALSE | FALSE | FALSE | 3.37 <br> 3.45 | 8.20 | 6.01 | 56\% | 41\% | 73\% |  | 1.36 | ${ }^{6.1116129}$ | 6.04 |  |  |  |  |  |  |  |  | 15,846 | 14,829 |  |  |  |  | 15,846 | 14,829 |  |
| 10/19/2020 | FALSE | FALSE | FALSE | 3.45 | 8.33 | 6.12 | 56\% | 41\% | 73\% |  | 1.36 | 6.1112581 | 6.05 |  |  |  |  |  |  |  |  | 15,846 | 14,829 |  |  |  |  | 15,846 15846 | 14,829 14829 |  |
| 10/20/2020 | FALSE | FALSE | FALSE | 3.41 | 8.44 | 6.11 | 56\% | 40\% | 72\% |  | 1.38 | 6.113548 | 6.04 |  |  |  |  |  |  |  |  | 15,846 | 14,829 |  |  |  |  | 15,846 | 14,829 |  |
| 10/21/2020 | FALSE | FALSE | FALSE | 3.42 | 8.26 | 6.12 | 55\% | 41\% | 74\% |  | 1.35 | ${ }_{6} 6.1116774$ | 6.04 |  |  |  |  |  |  |  |  | 15,846 | 14,829 114342 |  |  |  |  | 15,846 | 14,829 14,322 |  |
| 10/22/2020 | FALSE | FALSE | FALSE | 3.46 | 8.06 | 6.09 | 57\% | 43\% | 76\% |  | 1.32 | 6.114194 | 6.05 | 293.50 | 244.00 | 0.83 |  | 14,907 | 12,393 |  |  | 15,658 | 14,342 |  | 14,907 | 12,393 |  | 15,658 | 14,342 |  |
| 10/23/2020 | FALSE | FALSE | FALSE | 3.43 | 7.80 | 6.09 | 56\% | 44\% | 78\% |  | 1.28 | 6.110968 | 6.05 |  |  |  |  |  |  |  |  | 15,658 | 14,342 |  |  |  |  | 15,658 | 14,342 |  |
| 10/24/2020 | FALSE | FALSE | FALSE | 3.49 | 8.27 | 6.02 | 58\% | 42\% | 73\% |  | 1.37 1.37 1 | ${ }^{6.103871}$ | 6.05 |  |  |  |  |  |  |  |  | 15,500 | 14,909 |  |  |  |  | 15,500 | 14,909 |  |
| 10/25/2020 | FALSE | FALSE | FALSE | 3.40 3 | 8.37 | 6.10 | 56\% | 41\% | 73\% |  | 1.37 1.38 | 6.100323 | 6.08 |  |  |  |  |  |  |  |  | 15,500 | 14,909 |  |  |  |  | 15,500 | 14,009 |  |
| 10/26/2020 $10 / 27 / 2020$ | FALSE | FALSE | FALSE | 3.36 | 8.51 | 6.15 | 55\% | 39\% | 72\% |  | 1.38 1.37 | ${ }^{6.1} 1$ | 6.10 |  |  |  |  |  |  |  |  | 15,500 15500 | 14,009 |  |  |  |  | 15,500 | 14,909 |  |
| 10/27/2020 $10 / 28 / 2020$ | FALSE | FALSE | FALSE | 3.42 | 8.41 | 6.14 | 56\% | 41\% | 73\% |  | 1.37 1.37 | 6.105161 | 6.10 |  |  |  |  |  |  |  |  | 15,500 15,500 | 14,009 |  |  |  |  | 15,500 15500 | 14,909 |  |
| 10/29/2020 | FALSE | FALSE | FALSE | 3.45 3.4 | 8.35 | 6.21 | 56\% | 42\% | 74\% |  | 1.34 | ${ }_{6}^{6.110323}$ | 6.12 | 396.80 | 288.00 | 0.73 |  | 20,551 | 14,916 |  |  | 16,510 | 14,910 |  | 20,551 | 14,916 |  | 16,510 | 14,910 |  |
| 10/30/2020 | FALSE | FALSE | FALSE | 3.45 | 7.95 | 6.16 | 56\% | 43\% | 77\% |  | 1.29 | 6.112258 | 6.13 |  |  |  |  |  |  |  |  | 16,510 | 14,910 |  |  |  |  | 16,510 | 14,910 |  |
| 10/31/2020 | FALSE | FALSE | FALSE | 3.43 | 8.44 | 6.09 | 56\% | 41\% | 72\% |  | 1.39 | 6.109677 | 6.13 |  |  |  |  |  |  |  |  | 16,236 | 15,319 |  |  |  |  | 16,236 | 15,319 |  |
| 11/1/2020 | FALSE | FALSE | FALSE | 3.37 | 8.45 | 6.07 | 56\% | 40\% | 72\% |  | 1.39 | 6.105484 | 6.14 |  |  |  |  |  |  |  |  | 16,236 | 15,319 |  |  |  |  | 16,236 | 15,319 |  |
| 11/2/2020 | FALSE | FALSE | FALSE | 3.41 | 8.32 | 6.13 | 56\% | 41\% | 74\% |  | 1.36 | 6.104516 | 6.14 |  |  |  |  |  |  |  |  | 16,236 | 15,319 |  |  |  |  | 16,236 | 15,319 |  |
| 11/3/2020 | FALSE | FALSE | FALSE | 3.41 | 8.07 | 6.15 | 55\% | 42\% | 76\% |  | 1.31 | 6.105161 | 6.14 |  |  |  |  |  |  |  |  | 16,236 | 15,319 |  |  |  |  | 16,236 | 15,319 |  |
| 11/4/2020 | FALSE | FALSE | FALSE | 3.48 | 8.31 | 6.21 | 56\% | 42\% | 75\% |  | 1.34 | 6.109032 | 6.15 | 281.00 | 204.00 | 0.73 |  | 14,553 | 10,565 |  |  | 15,899 | 14,368 |  | 14,553 | 10,565 |  | 15,899 | 14,368 |  |
| 11/5/2020 | FALSE | FALSE | FALSE | 3.47 | 8.06 | 6.14 | 57\% | 43\% | 76\% |  | 1.31 | 6.109677 | 6.15 |  |  |  |  |  |  |  |  | 15,899 | 14,368 |  |  |  |  | 15,899 | 14,368 |  |
| 11/6/2020 | FALSE | FALSE | FALSE | 3.37 | 7.65 | 6.09 | 55\% | 44\% | 80\% |  | 1.26 | 6.108387 | 6.13 |  |  |  |  |  |  |  |  | 15,899 | 14,368 |  |  |  |  | 15,899 | 14,368 |  |
| 11/7/2020 | FALSE | FALSE | FALSE | 3.44 | 8.48 | 6.07 | 57\% | 41\% | 72\% |  | 1.40 | 6.104516 | 6.12 |  |  |  |  |  |  |  |  | 16,684 | 13,662 |  |  |  |  | 16,684 | 13,662 |  |
| 11/8/2020 | FALSE | FALSE | FALSE | 3.26 | 8.80 | 6.17 | 53\% | 37\% | 70\% |  | 1.43 | 6.102903 | 6.13 |  |  |  |  |  |  |  |  | 16,684 | 13,622 |  |  |  |  | 16,684 | 13,662 |  |
| 11/9/2020 | FALSE | FALSE | FALSE | 3.34 | 8.26 | 6.19 | 54\% | 40\% | 75\% |  | 1.33 | 6.102581 | 6.14 |  |  |  |  |  |  |  |  | 16,684 | 13,662 |  |  |  |  | 16,684 | 13,662 13,622 |  |
| 11/10/2020 | FALSE | FALSE | FALSE | 3.33 | 8.10 | 6.10 | 55\% | 41\% | 75\% |  | 1.33 | 6.103871 | 6.14 |  |  |  |  |  |  |  |  | 16,684 | 13,662 |  |  |  |  | 16,684 | 13,662 |  |
| 11/11/2020 | FALSE | FALSE | FALSE | 3.38 | 8.33 | 6.15 | 55\% | 41\% | 74\% |  | 1.35 | 6.107419 | 6.14 |  |  |  |  |  |  |  |  | 16,684 | 13,662 |  |  |  |  | 16,684 | 13,662 13,515 |  |
| 11/12/2020 | FALSE | FALSE | FALSE | 3.39 | 8.24 | 6.15 | 55\% | 41\% | 75\% |  | 1.34 | 6.107097 | 6.13 | 172.40 | 25.00 | 1.46 |  | 8,843 | 12,925 |  |  | 15,116 | 13,515 |  | 8,843 | 12,925 |  | 15,116 | 13,515 |  |
| 11/13/2020 | FALSE | FALSE | TRUE | 3.46 | 7.98 | 6.17 | 55\% | 43\% | 77\% |  | 1.29 | ${ }_{6}^{6.10871}$ | 6.14 |  |  |  |  |  |  |  |  | 15,116 | 13,515 |  |  |  |  | 15,116 14,713 | 13,515 12,700 |  |
| 11/14/2020 | FALSE | FALSE | FALSE | 3.32 | 8.56 | 6.06 | 55\% | 39\% | 71\% |  | 1.41 | 6.109355 | 6.13 |  |  |  |  |  |  |  |  | 14,713 | 12,700 |  |  |  |  | 14,713 | 12,700 |  |
| 11/15/2020 | FALSE | FALSE | FALSE | 3.36 | 8.50 | 6.15 | 55\% | 40\% | 72\% |  | 1.38 | ${ }^{6.1119355}$ | 6.14 |  |  |  |  |  |  |  |  | 14,713 | 12,700 12,700 |  |  |  |  | 14,713 | 12,700 12,700 |  |
| 111/16/2020 | ${ }_{\text {FALSE }}$ FALSE | FALSE | FALSE TRUE | 3.39 3.47 | 8.27 8.11 | 6.12 6.28 | 55\% | 41\% $43 \%$ | 74\% |  | 1.35 1.29 | ${ }_{6}^{6.11515181}$ | 6.14 |  |  |  |  |  |  |  |  | 14,713 14,713 | 12,700 12,700 |  |  |  |  | 14,713 14,713 | 12,700 |  |
| 11/18/2020 | FALSE | FALSE | FALSE | 3.59 | 8.37 | 6.29 | 57\% | 43\% | 75\% |  | 1.33 | 6.137742 | 6.17 | 166.00 | 271.00 | 1.63 |  | 8,708 | 14,216 |  |  | 13,512 | 13,003 |  | 8,708 | 14,216 |  | 13,512 | 13,003 |  |


| Date | $\begin{aligned} & \text { Butte } \\ & \text { Break? } \end{aligned}$ | $\begin{gathered} \text { csu } \\ \text { Break? } \end{gathered}$ | Precip? | $\begin{gathered} \text { Min } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | $\begin{gathered} \text { Max } \\ \text { Influent } \\ \text { IFlow, mgd } \end{gathered}$ | $\begin{gathered} \text { Avg } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | $\underset{\text { Avg }}{\operatorname{Min} \% \text { of }}$ | $\underset{\text { Max }}{\operatorname{Min} \% \text { of }}$ | $\begin{aligned} & \text { AVg } \% \text { of } \\ & \text { maxa } \end{aligned}$ | $\begin{aligned} & \text { Flow } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | $\begin{aligned} & \text { Diurnal } \\ & \text { Peak } \\ & \text { Factor } \\ & \text { (DPF) } \end{aligned}$ | $\begin{aligned} & 30-\mathrm{d} \text { Avg } \\ & \text { of Avg } \\ & \text { Flow, mgd } \end{aligned}$ | 7-d Avg of Avg Flow, mgd | Influent TSS Conc., mg/L | Influent BOD Conc., mg/L | $\begin{aligned} & \text { BoD/TSS } \\ & \text { Ratio } \end{aligned}$ | Influent NH3-N Conc., mg/L | Avg Inf TSS Load, ppd | $\begin{gathered} \text { Avg Inf } \\ \text { BOD Load, } \\ \text { ppd } \end{gathered}$ | Avg Inf NH3 Load, ppd | $\begin{aligned} & \text { Load } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | 30-d Avg of TSS Load, ppd | 30-d Avg of BOD Load, ppd | 30-d Avg of NH3-N Load, ppd | $\begin{aligned} & \text { hon-SN } \\ & \text { TSS Load, } \\ & \text { ppd } \end{aligned}$ | non-SN BOD Load, ppd | non-SN NH3 Load, ppd | 30-d Avg TSS Load, ppd | 30-d Avg of non-SN BOD Load ppd | $\begin{aligned} & \text { 30-d Avg } \\ & \text { of non-SN } \\ & \text { NH3-N } \\ & \text { Load, ppd } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 11/19/2020 | FALSE | FALSE | FALSE | 3.48 | 8.26 | 6.22 | 56\% | 42\% | 75\% |  | 1.33 | 6.140968 | 6.18 |  |  |  |  |  |  |  |  | 13,512 | 13,003 |  |  |  |  | 13,512 | 13,003 |  |
| 11/20/2020 | FALSE | TRUE | FALSE | 3.48 | 7.82 | 6.09 | 57\% | 45\% | 78\% |  | 1.28 | 6.140323 | 6.17 |  |  |  |  |  |  |  |  | 13,512 | 13,003 |  |  |  |  | 13,512 | 13,003 |  |
| 11/21/2020 | FALSE | TRUE | FALSE | 3.44 | 8.22 | 6.04 | 57\% | 42\% | 73\% |  | 1.36 | 6.137742 | 6.16 |  |  |  |  |  |  |  |  | 13,512 | 13,003 |  |  |  |  | 13,512 | 13,003 |  |
| 11/22/2020 | FALSE | true | FALSE | 3.33 | 8.52 | 5.98 | 56\% | 39\% | 70\% |  | 1.42 | 6.134194 | 6.15 |  |  |  |  |  |  |  |  | 13,164 | 13,156 |  |  |  |  | 13,164 | 13,156 |  |
| 11/23/2020 | FALSE | true | FALSE | 3.45 | 8.40 | 6.23 | 55\% | 41\% | 74\% |  | 1.35 | 6.13871 | 6.16 |  |  |  |  |  |  |  |  | 13,164 | 13,156 |  |  |  |  | 13,164 | 13,156 |  |
| 11/24/2020 | FALSE | true | FALSE | 3.53 | 7.95 | 6.11 | 58\% | 44\% | 77\% |  | 1.30 | 6.141613 | 6.16 | 265.90 | 236.00 | 0.89 |  | 13,550 | 12,026 |  |  | 13,241 | 12,930 |  | 13,550 | 12,026 |  | 13,241 | 12,930 |  |
| 11/25/2020 | TRUE | true | FALSE | 3.46 | 7.90 | 6.08 | 57\% | 44\% | 77\% |  | 1.30 | 6.140968 | 6.13 |  |  |  |  |  |  |  |  | 13,241 | 12,930 |  |  |  |  | 13,241 | 12,930 |  |
| 11/26/2020 | true | true | FALSE | 3.41 | 8.63 | 5.85 | 58\% | 40\% | 68\% |  | 1.48 | 6.13129 | 6.08 |  |  |  |  |  |  |  |  | 13,241 | 12,930 |  |  |  |  | 13,241 | 12,930 |  |
| 11/27/2020 | true | true | FALSE | 3.33 | 7.65 | 5.57 | 60\% | 44\% | 73\% |  | 1.37 | 6.112903 | 5.99 |  |  |  |  |  |  |  |  | 13,241 | 12,930 |  |  |  |  | 13,241 | 12,930 |  |
| 11/28/2020 | true | True | FALSE | 3.37 | 7.84 | 5.69 | 59\% | 43\% | 73\% |  | 1.38 | 6.097097 | 5.94 |  |  |  |  |  |  |  |  | 13,241 | 12,930 |  |  |  |  | 13,241 | 12,930 |  |
| 11/29/2020 | true | true | FALSE | 3.27 | 8.43 | 6.00 | 55\% | 39\% | 71\% |  | 1.41 | 6.090323 | 5.94 |  |  |  |  |  |  |  |  | 11,413 | 12,433 |  |  |  |  | 11,413 | 12,433 |  |
| 11/30/2020 | TRUE | True | FALSE | 3.34 | 8.23 | 6.04 | 55\% | 41\% | 73\% |  | 1.36 | 6.086452 | 5.95 |  |  |  |  |  |  |  |  | 11,413 | 12,433 |  |  |  |  | 11,413 | 12,433 |  |
| 12/1/2020 | FALSE | FALSE | FALSE | 3.44 | 8.23 | 6.10 | 56\% | 42\% | 74\% |  | 1.35 | 6.086774 | 5.93 |  |  |  |  |  |  |  |  | 11,413 | 12,433 |  |  |  |  | 11,413 | 12,433 |  |
| 12/2/2020 | FALSE | FALSE | FALSE | 3.43 | 8.22 | 6.05 | 57\% | 42\% | 74\% |  | 1.36 | 6.086129 | 5.92 | 339.80 | 298.00 | 0.88 |  | 17,145 | 15,036 |  |  | 12,560 | 12,954 |  | 17,145 | 15,036 |  | 12,560 | 12,954 |  |
| 12/3/2020 | FALSE | FALSE | false | 3.39 | 8.08 | 6.07 | 56\% | 42\% | 75\% |  | 1.33 | 6.084194 | 5.92 |  |  |  |  |  |  |  |  | 12,560 | 12,954 |  |  |  |  | 12,560 | 12,954 |  |
| 12/4/2020 | FALSE | FALSE | FALSE | 3.41 | 7.77 | 6.03 | 57\% | 44\% | 78\% |  | 1.29 | 6.080323 | 5.94 |  |  |  |  |  |  |  |  | 12,560 | 12,954 |  |  |  |  | 12,560 | 12,954 |  |
| 12/5/2020 | FALSE | FALSE | false | 3.39 | 8.27 | 5.94 | 57\% | 41\% | 72\% |  | 1.39 | 6.071613 | 5.99 |  |  |  |  |  |  |  |  | 12,061 | 13,551 |  |  |  |  | 12,061 | 13,551 |  |
| 12/6/2020 | FALSE | FALSE | FALSE | 3.31 | 8.45 | 6.04 | 55\% | 39\% | 71\% |  | 1.40 | 6.068387 | 6.03 |  |  |  |  |  |  |  |  | 12,061 | 13,551 |  |  |  |  | 12,061 | 13,551 |  |
| 12/7/2020 | FALSE | FALSE | FALSE | 3.42 | 8.14 | 6.13 | 56\% | 42\% | 75\% |  | 1.33 | 6.069677 | 6.05 |  |  |  |  |  |  |  |  | 12,061 | 13,551 |  |  |  |  | 12,061 | 13,551 |  |
| 12/8/2020 | FALSE | FALSE | FALSE | 3.45 | 8.15 | 6.05 | 57\% | 42\% | 74\% |  | 1.35 | 6.069032 | 6.05 |  |  |  |  |  |  |  |  | 12,061 | 13,551 |  |  |  |  | 12,061 | 13,551 |  |
| 12/9/2020 | FALSE | FALSE | false | 3.35 | 8.02 | 6.11 | 55\% | 42\% | 76\% |  | 1.31 | 6.067097 | 6.05 | 270.00 | 379.00 | 1.40 |  | 13,758 | 19,313 |  |  | 12,401 | 14,703 |  | 13,758 | 19,313 |  | 12,401 | 14,703 |  |
| 12/10/2020 | FALSE | FALSE | FALSE | 3.40 | 7.92 | 6.08 | 56\% | 43\% | 77\% |  | 1.30 | 6.063548 | 6.06 |  |  |  |  |  |  |  |  | 12,401 | 14,703 |  |  |  |  | 12,401 | 14,703 |  |
| 12/11/2020 | FALSE | FALSE | true | 3.35 | 7.96 | 6.05 | 55\% | 42\% | 76\% |  | 1.32 | 6.061935 | 6.05 |  |  |  |  |  |  |  |  | 12,401 | 14,703 |  |  |  |  | 12,401 | 14,703 |  |
| 12/12/2020 | FALSE | FALSE | TRUE | 3.42 | 8.62 | 6.03 | 57\% | 40\% | 70\% |  | 1.43 | 6.058065 | 6.05 |  |  |  |  |  |  |  |  | 12,401 | 14,703 |  |  |  |  | 12,401 | 14,703 |  |
| 12/13/2020 | FALSE | FALSE | TRUE | 3.41 | 9.55 | 6.45 | 53\% | 36\% | 68\% |  | 1.48 | 6.067742 | 6.12 |  |  |  |  |  |  |  |  | 13,290 | 15,148 |  |  |  |  | 13,290 | 15,148 |  |
| 12/14/2020 | FALSE | FALSE | FALSE | 3.40 | 8.24 | 6.30 | 54\% | 41\% | 76\% |  | 1.31 | 6.071935 | 6.15 |  |  |  |  |  |  |  |  | 13,290 | 15,148 |  |  |  |  | 13,290 | 15,148 |  |
| 12/15/2020 | FALSE | FALSE | True | 3.50 | 8.24 | 6.21 | 56\% | 42\% | 75\% |  | 1.33 | 6.076774 | 6.16 |  |  |  |  |  |  |  |  | 13,290 | 15,148 |  |  |  |  | 13,290 | 15,148 |  |
| 12/16/2020 | FALSE | FALSE | TRUE | 3.51 | 7.80 | 4.86 | 72\% | 45\% | 62\% | MinAvg | 1.60 | 6.074333 | 6.18 | 279.30 | 381.00 | 1.36 |  | 11,321 | 15,443 |  |  | 12,896 | 15,207 |  | 11,321 | 15,443 |  | 12,896 | 15,207 |  |
| 12/17/2020 | FALSE | FALSE | TRUE | 5.39 | 8.61 | 7.71 | 70\% | 63\% | 90\% | 'gMinMaxA' | 1.12 | 6.072759 | 6.19 |  |  |  |  |  |  |  |  | 12,896 | 15,207 |  |  |  |  | 12,896 | 15,207 |  |
| 12/18/2020 | FALSE | TRUE | FALSE | 3.56 | 8.03 | 6.43 | 55\% | 44\% | 80\% |  | 1.25 | 6.077931 | 6.25 |  |  |  |  |  |  |  |  | 12,896 | 15,207 |  |  |  |  | 12,896 | 15,207 |  |
| 12/19/2020 | FALSE | TRUE | FALSE | 3.52 | 8.62 | 6.20 | 57\% | 41\% | 72\% |  | 1.39 | 6.074828 | 6.27 |  |  |  |  |  |  |  |  | 13,944 | 15,454 |  |  |  |  | 13,944 | 15,454 |  |
| 12/20/2020 | TRUE | TRUE | FALSE | 3.37 | 8.60 | 6.11 | 55\% | 39\% | 71\% |  | 1.41 | 6.071034 | 6.28 |  |  |  |  |  |  |  |  | 13,944 | 15,454 |  |  |  |  | 13,944 | 15,454 |  |
| 12/21/2020 | TRUE | TRUE | FALSE | 3.44 | 8.17 | 6.11 | 56\% | 42\% | 75\% |  | 1.34 | 6.071724 | 6.23 |  |  |  |  |  |  |  |  | 13,944 | 15,454 |  |  |  |  | 13,944 | 15,454 |  |
| 12/22/2020 | TRUE | TRUE | FALSE | 3.33 | 7.87 | 6.05 | 55\% | 42\% | 77\% |  | 1.30 | 6.072069 | 6.19 | 290.70 | 262.00 | 0.90 |  | 14,668 | 13,220 |  |  | 14,088 | 15,008 |  | 14,668 | 13,220 |  | 14,088 | 15,008 |  |
| 12/23/2020 | true | TRUE | FALSE | 3.42 | 7.89 | 6.00 | 57\% | 43\% | 76\% |  | 1.32 | 6.072759 | 6.15 |  |  |  |  |  |  |  |  | 14,088 | 15,008 |  |  |  |  | 14,088 | 15,008 |  |
| 12/24/2020 | TRUE | TRUE | FALSE | 3.44 | 8.47 | 5.91 | 58\% | 41\% | 70\% |  | 1.43 | 6.061724 | 6.12 |  |  |  |  |  |  |  |  | 14,088 | 15,008 |  |  |  |  | 14,088 | 15,008 |  |
| 12/25/2020 | TRUE | TRUE | True | 3.32 | 7.17 | 5.29 | 63\% | 46\% | 74\% |  | 1.36 | 6.033448 | 6.01 |  |  |  |  |  |  |  |  | 14,223 | 15,753 |  |  |  |  | 14,223 | 15,753 |  |
| 12/26/2020 | TRUE | TRUE | TRUE | 3.35 3 3 | 7.77 | 5.65 | 59\% | 43\% | 73\% |  | 1.38 | ${ }^{6.018621}$ | 5.92 |  |  |  |  |  |  |  |  | 14,223 | 15,753 |  |  |  |  | 14,223 | 15,753 |  |
| 12/27/2020 | TRUE | TRUE | FALSE | 3.32 | 8.20 | 5.82 | 57\% | 40\% | 71\% |  | 1.41 | 6.017586 | 5.87 |  |  |  |  |  |  |  |  | 14,223 | 15,753 |  |  |  |  | 14,223 | 15,753 |  |
| 12/28/2020 $12 / 29 / 2020$ | TRUE TRUE | TRUE TRUE | FALSE | 3.39 3.32 | 8.10 7.64 | 5.99 5.89 | 57\% | $42 \%$ $43 \%$ | 74\% $77 \%$ |  | 1.35 1.30 | 6.032069 6.038966 | 5.85 5.83 |  |  |  |  |  |  |  |  | 14,223 14223 | 15,753 15753 |  |  |  |  | 14,223 14223 | 15,753 15753 |  |
| $\begin{aligned} & 12 / 29 / 2020 \\ & 12 / 30 / 2020 \end{aligned}$ | TRUE TRUE | TRUE TRUE | FALSE TRUE | 3.32 3.39 | 7.64 7.93 | 5.89 5.96 | 56\% | 43\% $43 \%$ | 77\% |  | $\begin{aligned} & 1.30 \\ & 1.33 \\ & \hline \end{aligned}$ | 6.038966 6.037586 | 5.83 5.81 | 300.30 | 204.00 | 0.68 |  | 14,927 | 10,140 |  |  | 14,223 14,364 | 15,753 14,630 |  | 14,927 | 10,140 |  | 14,223 14,364 | 15,753 14,630 |  |
| 12/31/2020 | TRUE | true | false | 3.46 | 7.93 | 5.95 | 58\% | 44\% | 75\% |  | 1.33 | 6.034483 | 5.81 |  |  |  |  |  |  |  |  | 14,364 | 14,630 |  |  |  |  | 14,364 | 14,630 |  |
| 1/1/2021 | TRUE | TRUE | FALSE | 3.43 | 7.73 | 5.59 | 61\% | 44\% | 72\% |  | 1.38 | 6.016897 | 5.77 |  |  |  |  |  |  |  |  | 14,364 | 14,630 |  |  |  |  | 14,364 | 14,630 |  |
| 1/2/2021 | TRUE | True | True | 3.32 | 8.02 | 5.72 | 58\% | 41\% | 71\% |  | 1.40 | 6.005517 | 5.82 |  |  |  |  |  |  |  |  | 13,668 | 14,529 |  |  |  |  | 13,668 | 14,529 |  |
| 1/3/2021 | TRUE | TRUE | TRUE | 3.33 | 8.58 | 6.01 | 55\% | 39\% | 70\% |  | 1.43 | 6.003448 | 5.87 |  |  |  |  |  |  |  |  | 13,668 | 14,529 |  |  |  |  | 13,668 | 14,529 |  |
| 1/4/2021 | TRUE | TRUE | TRUE | 3.48 | 8.54 | 6.43 | 54\% | 41\% | 75\% |  | 1.33 | 6.017241 | 5.94 |  |  |  |  |  |  |  |  | 13,668 | 14,529 |  |  |  |  | 13,668 | 14,529 |  |
| 1/5/2021 | TRUE | TRUE | FALSE | 3.59 | 8.36 | 6.27 | 57\% | 43\% | 75\% |  | 1.33 | 6.028621 | 5.98 | 237.90 | 265.00 | 1.11 |  | 12,440 | 13,857 |  |  | 13,423 | 14,395 |  | 12,440 | 13,857 |  | 13,423 | 14,395 |  |
| 1/6/2021 | TRUE | TRUE | TRUE | 3.52 | 8.15 | 6.24 | 56\% | 43\% | 77\% |  | 1.31 | 6.035517 | 6.02 |  |  |  |  |  |  |  |  | 13,423 | 14,395 |  |  |  |  | 13,423 | 14,395 |  |
| 1/7/2021 | TRUE | ${ }_{\text {TRUE }}^{\text {TRUE }}$ | FALSE | 3.39 3 3 | 8.16 | 6.19 | 55\% | 42\% | 76\% |  | 1.32 | 6.037586 | 6.05 |  |  |  |  |  |  |  |  | 13,423 | 14,395 |  |  |  |  | 13,423 | 14,395 |  |
| 1/8/2021 <br> 1/9/202 | TRUE TRUE | TRUE | TRUE | $\begin{aligned} & 3.55 \\ & 3.38 \end{aligned}$ | $\begin{aligned} & 7.95 \\ & 8.31 \end{aligned}$ | $6.06$ | 59\% | $\begin{aligned} & \text { 45\% } \\ & 41 \% \end{aligned}$ | $\begin{aligned} & 76 \% \% \\ & 72 \% \\ & 7 \end{aligned}$ |  | $\begin{aligned} & 1.31 \\ & 1.38 \\ & 1.31 \end{aligned}$ | 6.037931 | 6.06 |  |  |  |  |  |  |  |  | 13,423 13,339 | 14,395 |  |  |  |  | 13,423 | 14,395 |  |
| 1/10/2021 | TRUE | TRUE | FALSE | 3.35 | 8.40 | 6.06 | 55\% | 40\% | 72\% |  | 1.39 | 6.034138 | 6.16 |  |  |  |  |  |  |  |  | 13,339 | 13,165 |  |  |  |  | 13,339 | 13,165 |  |
| 1/11/2021 | TRUE | true | FALSE | 3.39 | 8.13 | 6.07 | 56\% | 42\% | 75\% |  | 1.34 | 6.034828 | 6.17 |  |  |  |  |  |  |  |  | 13,339 | 13,165 |  |  |  |  | 13,339 | 13,165 |  |
| 1/12/2021 | TRUE | TRUE | FALSE | 3.44 | 8.01 | 6.04 | 57\% | 43\% | 75\% |  | 1.33 | 6.035172 | 6.12 |  |  |  |  |  |  |  |  | 13,339 | 13,165 |  |  |  |  | 13,339 | 13,165 |  |
| 1/13/2021 | TRUE | TRUE | FALSE | 3.44 | 8.15 | 6.04 | 57\% | 42\% | 74\% |  | 1.35 | 6.021034 | 6.09 | 310.80 | 195.00 | 0.63 |  | 15,656 | 9,823 |  |  | 13,802 | 12,497 |  | 15,656 | 9,823 |  | 13,802 | 12,497 |  |
| 1/14/2021 | TRUE | TRUE | FALSE | 3.47 | 8.10 | 6.02 | 58\% | 43\% | 74\% |  | 1.35 | 6.011379 | 6.06 |  |  |  |  |  |  |  |  | 13,802 | 12,497 |  |  |  |  | 13,802 | 12,497 |  |
| 1/15/2021 | TRUE | TRUE | FALSE | 3.40 | 7.78 | 5.96 | 57\% | 44\% | 77\% |  | 1.31 | 6.002759 | 6.03 |  |  |  |  |  |  |  |  | 13,802 | 12,497 |  |  |  |  | 13,802 | 12,497 |  |
| 1/16/2021 | TRUE | TRUE | FALSE | 3.38 | 7.95 | 5.87 | 58\% | 43\% | 74\% |  | 1.35 | 5.998333 | 6.01 |  |  |  |  |  |  |  |  | 14,423 | 11,760 |  |  |  |  | 14,423 | 11,760 |  |
| 1/17/2021 | ${ }_{\text {TRUE }}^{\text {TRUE }}$ | ${ }_{\text {TRUE }}^{\text {TRUE }}$ | FALSE | $\begin{array}{r}3.31 \\ 3.40 \\ \hline\end{array}$ | 8.13 8.24 | 5.87 6.10 | 56\% | 41\% | 72\% |  | 1.39 1.35 | 5.994194 5 5 | 5.99 6.00 |  |  |  |  |  |  |  |  | 14,423 14.423 | 11,760 11,760 |  |  |  |  | 14,423 14,423 | 11,760 11,760 |  |
| 1/19/2021 | TRUE | TRUE | FALSE | 3.34 | 8.20 | 6.02 | 55\% | 41\% | 73\% |  | 1.36 | 5.977742 | 5.99 |  |  |  |  |  |  |  |  | 14,423 | 11,760 |  |  |  |  | 14,423 | 11,760 |  |
| 1/20/2021 | TRUE | true | FALSE | 3.42 | 8.24 | 5.95 | 57\% | 42\% | 72\% |  | 1.38 | 5.972581 | 5.98 | 253.40 | 253.00 | 1.00 |  | 12,574 | 12,555 |  |  | 14,053 | 11,919 |  | 12,574 | 12,555 |  | 14,053 | 11,919 |  |


| Date | $\begin{aligned} & \text { Butte } \\ & \text { Break? } \end{aligned}$ | $\begin{gathered} \text { csu } \\ \text { Break? } \end{gathered}$ | Precip? | $\begin{gathered} \text { Min } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | $\begin{gathered} \text { Max } \\ \substack{\text { Infuent } \\ \text { Flow, mgd }} \end{gathered}$ | $\begin{gathered} \text { Avg } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | $\begin{aligned} & \text { Min \% of } \\ & \text { Avg } \end{aligned}$ | $\begin{gathered} \text { Min \% of } \\ \text { Max } \end{gathered}$ | $\begin{aligned} & \text { Avg \% of of } \end{aligned}$ | $\begin{aligned} & \text { Flow } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ |  | $\begin{aligned} & 30-\mathrm{d} \text { Avg } \\ & \text { of Avg } \\ & \text { Flow, mgd } \end{aligned}$ | 7-d Avg of Avg Flow, mgd | Influent TSS Conc., mg/L | Influent BOD Conc., mg/L | $\begin{aligned} & \text { BoD/TSS } \\ & \text { Ratio } \end{aligned}$ | Influent NH3-N Conc., mg/L | Avg linf TSS Load, ppd | $\begin{gathered} \text { Avg Inf } \\ \text { BOD Load, } \\ \text { ppd } \end{gathered}$ | $\begin{gathered} \text { Avg Inf } \\ \text { NH3 Load, } \\ \text { ppd } \end{gathered}$ | $\begin{aligned} & \text { Load } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | 30-d Avg of TSS Load, ppd | 30-d Avg of BOD Load, ppd | 30-d Avg of NH3-N Load, ppd | non-SN TSS Load, ppd | non-SN BOD Load, ppd | $\begin{gathered} \text { non-SN } \\ \text { NH3 Load, } \\ \text { ppd } \end{gathered}$ | 30-d Avg of non-SN TSS Load, ppd | 30-d Avg of non-SN BOD Load ppd | $\begin{aligned} & \text { 30-d Avg } \\ & \text { of non-SN } \\ & \text { NH3-N } \\ & \text { Load, ppd } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1/21/2021 | TRUE | True | FALSE | 3.44 | 8.04 | 6.04 | 57\% | 43\% | 75\% |  | 1.33 | 5.970323 | 5.98 |  |  |  |  |  |  |  |  | 14,053 | 11,919 |  |  |  |  | 14,053 | 11,919 |  |
| 1/22/2021 | TRUE | true | true | 3.47 | 7.86 | 6.05 | 57\% | 44\% | 77\% |  | 1.30 | 5.970323 | 5.98 |  |  |  |  |  |  |  |  | 13,899 | 11,594 |  |  |  |  | 13,899 | 11,594 |  |
| 1/23/2021 | TRUE | TRUE | FALSE | 3.38 | 8.12 | 5.91 | 57\% | 42\% | 73\% |  | 1.37 | 5.967419 | 5.98 |  |  |  |  |  |  |  |  | 13,899 | 11,594 |  |  |  |  | 13,899 | 11,594 |  |
| 1/24/2021 | TRUE | true | true | 3.32 | 8.79 | 6.16 | 54\% | 38\% | 70\% |  | 1.43 | 5.975484 | 6.01 |  |  |  |  |  |  |  |  | 13,899 | 11,594 |  |  |  |  | 13,899 | 11,594 |  |
| 1/25/2021 | TRUE | true | true | 3.32 | 8.32 | 6.19 | 54\% | 40\% | 74\% |  | 1.34 | 6.004516 | 6.05 |  |  |  |  |  |  |  |  | 13,899 | 11,594 |  |  |  |  | 13,899 | 11,594 |  |
| 1/26/2021 | FALSE | FALSE | true | 3.44 | 8.54 | 6.25 | 55\% | 40\% | 73\% |  | 1.37 | 6.023871 | 6.07 |  |  |  |  |  |  |  |  | 13,899 | 11,594 |  |  |  |  | 13,899 | 11,594 |  |
| 1/27/2021 | FALSE | FALSE | TRUE | 4.05 | 9.57 | 7.19 | 56\% | 42\% | 75\% |  | 1.33 | 6.068065 | 6.22 | 284.60 | 214.00 | 0.75 |  | 17,066 | 12,832 |  |  | 14,533 | 11,841 |  | 17,066 | 12,832 |  | 14,533 | 11,841 |  |
| 1/28/2021 | FALSE | FALSE | true | 5.06 | 10.68 | 8.23 | 61\% | 47\% | 77\% |  | 1.30 | 6.140323 | 6.50 |  |  |  |  |  |  |  |  | 14,533 | 11,841 |  |  |  |  | 14,533 | 11,841 |  |
| 1/29/2021 | FALSE | FALSE | true | 4.77 | 10.23 | 7.92 | 60\% | 47\% | 77\% |  | 1.29 | 6.205806 | 6.74 |  |  |  |  |  |  |  |  | 14,533 | 11,841 |  |  |  |  | 14,533 | 11,841 |  |
| 1/30/2021 | FALSE | FALSE | FALSE | 4.11 | 9.39 | 7.10 | 58\% | 44\% | 76\% |  | 1.32 | 6.242581 | 6.87 |  |  |  |  |  |  |  |  | 14,434 | 12,267 |  |  |  |  | 14,434 | 12,267 |  |
| 1/31/2021 | FALSE | FALSE | FALSE | 3.68 | 9.16 | 6.82 | 54\% | 40\% | 74\% |  | 1.34 | 6.270645 | 6.98 |  |  |  |  |  |  |  |  | 14,434 | 12,267 |  |  |  |  | 14,434 | 12,267 |  |
| 2/1/2021 | FALSE | FALSE | true | 3.74 | 9.47 | 6.75 | 55\% | 39\% | 71\% |  | 1.40 | 6.308065 | 7.06 |  |  |  |  |  |  |  |  | 14,434 | 12,267 |  |  |  |  | 14,434 | 12,267 |  |
| 2/2/2021 | FALSE | FALSE | true | 4.62 | 9.80 | 7.67 | 60\% | 47\% | 78\% |  | 1.28 | 6.370968 | 7.24 | 218.40 | 337.00 | 1.54 |  | 13,971 | 21,557 |  |  | 14,341 | 14,125 |  | 13,971 | 21,557 |  | 14,341 | 14,125 |  |
| 2/3/2021 | FALSE | FALSE | FALSE | 4.08 | 9.41 | 7.22 | 57\% | 43\% | 77\% |  | 1.30 | 6.41 | 7.36 |  |  |  |  |  |  |  |  | 14,341 | 14,125 |  |  |  |  | 14,341 | 14,125 |  |
| 2/4/2021 | FALSE | FALSE | FALSE | 3.80 | 8.92 | 6.82 | 56\% | 43\% | 76\% |  | 1.31 | 6.422581 | 7.32 |  |  |  |  |  |  |  |  | 14,341 | 14,125 |  |  |  |  | 14,341 | 14,125 |  |
| 2/5/2021 | FALSE | FALSE | FALSE | 3.81 | 8.60 | 6.55 | 58\% | 44\% | 76\% |  | 1.31 | 6.431613 | 7.11 |  |  |  |  |  |  |  |  | 14,817 | 14,192 |  |  |  |  | 14,817 | 14,192 |  |
| 2/6/2021 | FALSE | FALSE | FALSE | 3.73 | 8.58 | 6.47 | 58\% | 43\% | 75\% |  | 1.33 | 6.439032 | 6.93 |  |  |  |  |  |  |  |  | 14,817 | 14,192 |  |  |  |  | 14,817 | 14,192 |  |
| 2/7/2021 | FALSE | FALSE | FALSE | 3.52 | 8.83 | 6.34 | 56\% | 40\% | 72\% |  | 1.39 | 6.443871 | 6.83 |  |  |  |  |  |  |  |  | 14,817 | 14,192 |  |  |  |  | 14,817 | 14,192 |  |
| 2/8/2021 | FALSE | FALSE | FALSE | 3.53 | 8.51 | 6.37 | 55\% | 41\% | 75\% |  | 1.34 | 6.453871 | 6.77 |  |  |  |  |  |  |  |  | 14,817 | 14,192 |  |  |  |  | 14,817 | 14,192 |  |
| 2/9/2021 | FALSE | FALSE | FALSE | 3.52 | 8.47 | 6.25 | 56\% | 42\% | 74\% |  | 1.36 | 6.46129 | 6.71 | 218.40 | 363.00 | 1.66 |  | 11,384 | 18,921 |  |  | 14,130 | 15,138 |  | 11,384 | 18,921 |  | 14,130 | 15,138 |  |
| 2/10/2021 | FALSE | FALSE | FALSE | 3.57 | 8.35 | 6.25 | 57\% | 43\% | 75\% |  | 1.34 | 6.467419 | 6.53 |  |  |  |  |  |  |  |  | 14,130 | 15,138 |  |  |  |  | 14,130 | 15,138 |  |
| 2/11/2021 | FALSE | FALSE | True | 3.57 | 8.71 | 6.48 | 55\% | 41\% | 74\% |  | 1.34 | 6.480645 | 6.44 |  |  |  |  |  |  |  |  | 14,130 | 15,138 |  |  |  |  | 14,130 | 15,138 |  |
| 2/12/2021 | FALSE | FALSE | true | 3.85 | 8.41 | 6.62 | 58\% | 46\% | 79\% |  | 1.27 | 6.499355 | 6.42 |  |  |  |  |  |  |  |  | 14,130 | 15,138 |  |  |  |  | 14,130 | 15,138 |  |
| 2/13/2021 | FALSE | FALSE | True | 3.75 | 9.07 | 6.61 | 57\% | 41\% | 73\% |  | 1.37 | 6.517742 | 6.42 |  |  |  |  |  |  |  |  | 13,749 | 16,466 |  |  |  |  | 13,749 | 16,466 |  |
| 2/14/2021 | FALSE | FALSE | FALSE | 3.56 | 9.05 | 6.49 | 55\% | 39\% | 72\% |  | 1.39 | 6.532903 | 6.43 |  |  |  |  |  |  |  |  | 13,749 | 16,466 |  |  |  |  | 13,749 | 16,466 |  |
| 2/15/2021 | FALSE | FALSE | True | 3.63 | 9.20 | 6.72 | 54\% | 39\% | 73\% |  | 1.37 | 6.557419 | 6.47 |  |  |  |  |  |  |  |  | 13,749 | 16,466 |  |  |  |  | 13,749 | 16,466 |  |
| 2/16/2021 | FALSE | FALSE | FALSE | 3.72 | 8.77 | 6.64 | 56\% | 42\% | 76\% |  | 1.32 | 6.582258 | 6.51 |  |  |  |  |  |  |  |  | 13,749 | 16,466 |  |  |  |  | 13,749 | 16,466 |  |
| 2/17/2021 | FALSE | FALSE | FALSE | 3.62 | 8.74 | 6.46 | 56\% | 41\% | 74\% |  | 1.35 | 6.60129 | 6.53 | 245.40 | 224.00 | 0.91 |  | 13,221 | 12,068 |  |  | 13,643 | 15,587 |  | 13,221 | 12,068 |  | 13,643 | 15,587 |  |
| 2/18/2021 | FALSE | FALSE | FALSE | 3.62 | 8.37 | 6.44 | 56\% | 43\% | 77\% |  | 1.30 | 6.612258 | 6.56 |  |  |  |  |  |  |  |  | 13,643 | 15,587 |  |  |  |  | 13,643 | 15,587 |  |
| 2/19/2021 | FALSE | FALSE | True | 3.59 | 8.24 | 6.37 | 56\% | 44\% | 77\% |  | 1.29 | 6.623548 | 6.54 |  |  |  |  |  |  |  |  | 13,643 | 15,587 |  |  |  |  | 13,643 | 15,587 |  |
| 2/20/2021 | FALSE | FALSE | FALSE | 3.51 | 8.35 | 6.17 | 57\% | 42\% | 74\% |  | 1.35 | 6.630645 | 6.49 |  |  |  |  |  |  |  |  | 13,910 | 16,345 |  |  |  |  | 13,910 | 16,345 |  |
| 2/21/2021 | FALSE | FALSE | FALSE | 3.36 | 8.47 | 6.23 | 54\% | 40\% | 74\% |  | 1.36 | 6.636774 | 6.44 |  |  |  |  |  |  |  |  | 13,910 | 16,345 |  |  |  |  | 13,910 | 16,345 |  |
| 2/22/2021 | FALSE | FALSE | FALSE | 3.49 | 8.44 | 6.21 | 56\% | 41\% | 74\% |  | 1.36 | 6.641935 | 6.41 |  |  |  |  |  |  |  |  | 13,910 | 16,345 |  |  |  |  | 13,910 | 16,345 |  |
| 2/23/2021 | FALSE | FALSE | FALSE | 3.46 | 8.64 | 6.18 | 56\% | 40\% | 72\% |  | 1.40 | 6.650645 | 6.34 | 266.00 | 347.00 | 1.30 |  | 13,710 | 17,885 |  |  | 13,870 | 16,653 |  | 13,710 | 17,885 |  | 13,870 | 16,653 |  |
| 2/24/2021 | FALSE | FALSE | FALSE | 3.45 | 8.59 | 6.20 | 56\% | 40\% | 72\% |  | 1.39 | 6.651935 | 6.28 |  |  |  |  |  |  |  |  | 13,870 | 16,653 |  |  |  |  | 13,870 | 16,653 |  |
| 2/25/2021 | FALSE | FALSE | FALSE | 3.36 | 8.36 | 6.13 | 55\% | 40\% | 73\% |  | 1.36 | 6.65 | 6.24 |  |  |  |  |  |  |  |  | 13,870 | 16,653 |  |  |  |  | 13,870 | 16,653 |  |
| 2/26/2021 | FALSE | FALSE | FALSE | 3.40 | 8.16 | 6.08 | 56\% | 42\% | 75\% |  | 1.34 | 6.644516 | 6.20 |  |  |  |  |  |  |  |  | 13,870 | 16,653 |  |  |  |  | 13,870 | 16,653 |  |
| 2/27/2021 | FALSE | FALSE | FALSE | 3.25 | 8.13 | 5.92 | 55\% | 40\% | 73\% |  | 1.37 | 6.603548 | 6.14 |  |  |  |  |  |  |  |  | 13,071 | 17,608 |  |  |  |  | 13,071 | 17,608 |  |
| 2/28/2021 | FALSE | FALSE | FALSE | 3.25 | 8.50 | 6.04 | 54\% | 38\% | 71\% |  | 1.41 | 6.532903 | 6.12 |  |  |  |  |  |  |  |  | 13,071 | 17,608 |  |  |  |  | 13,071 | 17,608 |  |
| 3/1/2021 | FALSE | FALSE | FALSE | 3.36 | 8.39 | 6.09 | 55\% | 40\% | 73\% |  | 1.38 | 6.473871 | 6.11 |  |  |  |  |  |  |  |  | 13,071 | 17,608 |  |  |  |  | 13,071 | 17,608 |  |
| 3/2/2021 | FALSE | FALSE | FALSE | 3.41 | 8.41 | 6.03 | 57\% | 41\% | 72\% |  | 1.39 | 6.439355 | 6.08 | 324.00 | 260.00 | 0.80 |  | 16,294 | 13,075 |  |  | 13,716 | 16,701 |  | 16,294 | 13,075 |  | 13,716 | 16,701 |  |
| 3/3/2021 | FALSE | FALSE | FALSE | 3.46 | 8.40 | 6.13 | 56\% | 41\% | 73\% |  | 1.37 | 6.417097 | 6.08 |  |  |  |  |  |  |  |  | 13,716 | 16,701 |  |  |  |  | 13,716 | 16,701 |  |
| 3/4/2021 | FALSE | FALSE | FALSE | 3.44 | 8.24 | 6.10 | 56\% | 42\% | 74\% |  | 1.35 | 6.396129 | 6.07 |  |  |  |  |  |  |  |  | 13,716 | 16,701 |  |  |  |  | 13,716 | 16,701 |  |
| 3/5/2021 | FALSE | FALSE | FALSE | 3.44 | 8.24 | 6.10 | 56\% | 42\% | 74\% |  | 1.35 | 6.345884 | 6.06 |  |  |  |  |  |  |  |  | 13,652 | 15,487 |  |  |  |  | 13,652 | 15,487 |  |
| 3/6/2021 | FALSE | FALSE | TRUE | 3.52 | 8.29 | 6.08 | 58\% | 42\% | 73\% |  | 1.36 | 6.30871 | 6.06 |  |  |  |  |  |  |  |  | 13,652 | 15,487 |  |  |  |  | 13,652 | 15,487 |  |
| 3/7/2021 | FALSE | FALSE | FALSE | 3.29 | 8.39 | 6.10 | 54\% | 39\% | 73\% |  | 1.38 | 6.285484 | 6.08 |  |  |  |  |  |  |  |  | 13,652 | 15,487 |  |  |  |  | 13,652 | 15,487 |  |
| 3/8/2021 | FALSE | FALSE | FALSE | 3.46 | 8.18 | 6.18 | 56\% | 42\% | 76\% |  | 1.32 | 6.273548 | 6.10 |  |  |  |  |  |  |  |  | 13,652 | 15,487 |  |  |  |  | 13,652 | 15,487 |  |
| 3/9/2021 | FALSE | FALSE | TRUE | 3.44 | 8.35 | 6.20 | 55\% | 41\% | 74\% |  | 1.35 | 6.264839 | 6.12 | 249.20 | 477.00 | 1.91 |  | 12,886 | 24,665 |  |  | 13,499 | 17,323 |  | 12,886 | 24,665 |  | 13,499 | 17,323 |  |
| 3/10/2021 | FALSE | FALSE | TRUE | 3.52 | 8.50 | 6.52 | 54\% | 41\% | 77\% |  | 1.30 | 6.270645 | 6.18 |  |  |  |  |  |  |  |  | 13,499 | 17,323 |  |  |  |  | 13,499 | 17,323 |  |
| 3/11/2021 | FALSE | FALSE | FALSE | 3.45 | 8.40 | 6.27 | 55\% | 41\% | 75\% |  | 1.34 | 6.267419 | 6.19 |  |  |  |  |  |  |  |  | 13,499 | 17,323 |  |  |  |  | 13,499 | 17,323 |  |
| 3/12/2021 | TRUE | TRUE | FALSE | 3.52 | 8.18 | 6.14 | 57\% | 43\% | 75\% |  | 1.33 | 6.263871 | 6.20 |  |  |  |  |  |  |  |  | 14,028 | 16,923 |  |  |  |  | 14,028 | 16,923 |  |
| 3/13/2021 | TRUE | True | FALSE | 3.45 | 8.14 | 5.91 | 58\% | 42\% | 73\% |  | 1.38 | 6.252903 | 6.18 |  |  |  |  |  |  |  |  | 14,028 | 16,923 |  |  |  |  | 14,028 | 16,923 |  |
| 3/14/2021 | TRUE | TRUE | TRUE | 3.34 | 8.62 | 6.10 | 55\% | 39\% | 71\% |  | 1.41 | 6.240645 | 6.18 |  |  |  |  |  |  |  |  | 14,028 | 16,923 |  |  |  |  | 14,028 | 16,923 |  |
| 3/15/2021 | TRUE | TRUE | TRUE | 3.82 | 8.64 | 6.71 | 57\% | 44\% | 78\% |  | 1.29 | 6.243548 | 6.25 |  |  |  |  |  |  |  |  | 14,028 | 16,923 |  |  |  |  | 14,028 | 16,923 |  |
| 3/16/2021 | TRUE | TRUE | FALSE | 3.80 | 8.53 | 6.42 | 59\% | 45\% | 75\% |  | 1.33 | 6.237419 | 6.28 | 24.50 | 285.00 | 1.16 |  | 13,198 | 15,260 |  |  | 13,862 | 16,591 |  | 13,198 | 15,260 |  | 13,862 | 16,591 |  |
| 3/17/2021 | TRUE | TRUE | FALSE | 3.79 | 8.19 | 6.26 | 61\% | 46\% | 76\% |  | 1.31 | 6.23 | 6.29 |  |  |  |  |  |  |  |  | 13,862 | 16,591 |  |  |  |  | 13,862 | 16,591 |  |
| 3/18/2021 | TRUE | TRUE | TRUE | 3.69 | 9.58 | 6.87 | 54\% | 39\% | 72\% |  | 1.39 | 6.234839 | 6.34 |  |  |  |  |  |  |  |  | 13,862 | 16,591 |  |  |  |  | 13,862 | 16,591 |  |
| 3/19/2021 | TRUE | TRUE | FALSE | 4.57 | 9.52 | 7.47 | 61\% | 48\% | 78\% |  | 1.27 | 6.261613 | 6.49 |  |  |  |  |  |  |  |  | 13,862 | 16,591 |  |  |  |  | 13,862 | 16,591 |  |
| 3/20/2021 | TRUE | TRUE | TRUE | 4.11 | 8.86 | 6.80 | 60\% | 46\% | 77\% |  | 1.30 | 6.272581 | 6.57 |  |  |  |  |  |  |  |  | 14,022 | 17,721 |  |  |  |  | 14,022 | 17,721 |  |
| 3/21/2021 | ${ }_{\text {TRUE }}^{\text {TRUE }}$ | ${ }_{\text {TRUE }}^{\text {TRUE }}$ | ${ }_{\substack{\text { TRALSE } \\ \text { TRUE }}}$ | $\begin{array}{r}3.60 \\ 3.76 \\ \hline\end{array}$ | 9.07 8.99 | 6.63 6.74 | 54\% | 40\% | 73\% |  | $\begin{aligned} & 1.37 \\ & 1.33 \end{aligned}$ | 6.27871 6.290645 | 6.66 6.74 |  |  |  |  |  |  |  |  | 14,022 | 17,721 |  |  |  |  | 14,022 14,022 | 17,721 <br> 17,721 |  |
| $3 / 22 / 2021$ $3 / 23 / 2021$ | ${ }_{\text {TRUE }}$ FALSE | ${ }_{\text {TRUE }}^{\text {FALSE }}$ | ${ }_{\text {TRUL }}^{\text {FALSE }}$ | 3.76 3.68 | 8.99 8.83 | 6.74 6.59 | 56\% | 42\% | 75\% |  | 1.33 1.34 | 6.290645 6.304194 | 6.74 | 281.70 | 279.00 | 0.99 |  | 15,482 | 15,334 |  |  | 14,022 14,314 | 17,721 <br> 17,24 |  | 15,482 | 15,334 |  | 14,022 14,314 | 17,721 17,244 |  |
| 3/24/2021 | FALSE | FALSE | false | 3.63 | 8.84 | 6.56 | 55\% | 41\% | 74\% |  | 1.35 | 6.314839 | 6.74 |  |  |  |  |  |  |  |  | 14,314 | 17,244 |  |  |  |  | 14,314 | 17,244 |  |


| Date | $\begin{aligned} & \text { Butte } \\ & \text { Break? } \end{aligned}$ | $\underset{\text { Break? }}{\text { csu }}$ | Precip? | $\underset{\substack{\text { Minfluent } \\ \text { Flow, } \\ \text { Fgd }}}{\text { In }}$ | $\begin{gathered} \text { Max } \\ \text { Influent } \\ \text { Flow, } \text { mgd } \end{gathered}$ | $\begin{gathered} \text { Avg } \\ \text { Influent } \\ \text { Flow, } \text { mgd } \end{gathered}$ | $\underset{\text { Avg }}{\mathrm{Min} \% \text { of }}$ | $\underset{\text { Max }}{\operatorname{Min} \% \text { of }}$ | Avg \% of Max | $\left\lvert\, \begin{aligned} & \text { Flow } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}\right.$ | $\begin{aligned} & \text { Diurnal } \\ & \text { Peak } \\ & \text { Factor } \\ & \text { (DPF) } \end{aligned}$ | $\begin{gathered} \text { 30-d Avg } \\ \text { of Avg } \\ \text { Flow, mgd } \end{gathered}$ | 7-d Avg of Avg Flow, mgd | Influent TSS Conc., mg/L | $\begin{aligned} & \text { Influent } \\ & \text { BoD } \\ & \text { Conc., } \\ & \text { mg/L } \end{aligned}$ | BOD/TSS | Influent NH3-N Conc., mg/L | Avg Inf TSS Load, ppd | Avg Inf BOD Load, ppd | Avg Inf NH3 Load, ppd | $\begin{gathered} \text { Load } \\ \text { Outlier } \\ \text { Type } \end{gathered}$ | 30-d Avg of TSS Load, ppd | 30-d Avg of BOD Load, ppd | 30-d Avg of NH3-N Load, ppd | non-SN TSS Load, ppd | non-SN BOD Load, ppd | non-SN NH3 Load, ppd | $\begin{aligned} & \text { 30-d Avg } \\ & \text { of nons SN } \\ & \text { TSS Load, } \\ & \text { ppdd } \end{aligned}$ | $\begin{gathered} \text { 30-d Avg } \\ \text { of non-SN } \\ \text { BOD Load, } \\ \text { ppd } \end{gathered}$ | $\begin{array}{cc} \mathrm{g} & 30-\mathrm{d} \text { Avg } \\ \mathrm{N} & \text { of non-SN } \\ \mathrm{d}, & \mathrm{NH} 3-\mathrm{N} \\ & \text { Load, ppd } \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3/25/2021 | FALSE | FALSE | FALSE | 3.67 | 8.74 | 6.49 | 57\% | 42\% | 74\% |  | 1.35 | 6.323871 | 6.77 |  |  |  |  |  |  |  |  | 14,314 | 17,244 |  |  |  |  | 14,314 | 17,244 |  |
| 3/26/2021 | FALSE | FALSE | FALSE | 3.55 | 8.57 | 6.28 | 57\% | 41\% | 73\% |  | 1.36 | 6.327097 | 6.70 |  |  |  |  |  |  |  |  | 14,465 | 17,083 |  |  |  |  | 14,465 | 17,083 |  |
| 3/27/2021 | FALSE | FALSE | false | 3.63 | 8.52 | 6.17 | 59\% | 43\% | 72\% |  | 1.38 | 6.326129 | 6.53 |  |  |  |  |  |  |  |  | 14,465 | 17,083 |  |  |  |  | 14,465 | 17,083 |  |
| 3/28/2021 | FALSE | FALSE | FALSE | 3.45 | 8.40 | 6.13 | 56\% | 41\% | 73\% |  | 1.37 | 6.326129 | 6.45 |  |  |  |  |  |  |  |  | 14,465 | 17,083 |  |  |  |  | 14,465 | 17,083 |  |
| 3/29/2021 | FALSE | FALSE | FALSE | 3.58 | 8.36 | 6.30 | 57\% | 43\% | 75\% |  | 1.33 | 6.333226 | 6.41 |  |  |  |  |  |  |  |  | 14,465 | 17,083 |  |  |  |  | 14,465 | 17,083 |  |
| 3/30/2021 | FALSE | FALSE | FALSE | 3.42 | 8.38 | 6.17 | 55\% | 41\% | 74\% |  | 1.36 | 6.34129 | 6.34 | 351.40 | 270.00 | 0.77 |  | 18,082 | 13,894 |  |  | 15,189 | 16,445 |  | 18,082 | 13,894 |  | 15,189 | 16,445 |  |
| 3/31/2021 | FALSE | FALSE | FALSE | 3.65 | 8.27 | 6.20 | 59\% | 44\% | 75\% |  | 1.33 | 6.346452 | 6.29 |  |  |  |  |  |  |  |  | 15,189 | 16,445 |  |  |  |  | 15,189 | 16,445 |  |
| 4/1/2021 | FALSE | FALSE | FALSE | 3.48 | 8.24 | 6.10 | 57\% | 42\% | 74\% |  | 1.35 | 6.346774 | 6.23 |  |  |  |  |  |  |  |  | 15,189 | 16,445 |  |  |  |  | 15,189 | 16,445 |  |
| 4/2/2021 | FALSE | FALSE | FALSE | 3.53 | 8.00 | 6.17 | 57\% | 44\% | 77\% |  | 1.30 | 6.35129 | 6.19 |  |  |  |  |  |  |  |  | 14,912 | 17,288 |  |  |  |  | 14,912 | 17,288 |  |
| 4/3/2021 | FALSE | false | false | 3.53 | 8.16 | 6.00 | 59\% | 43\% | 74\% |  | 1.36 | 6.347097 | 6.16 |  |  |  |  |  |  |  |  | 14,912 | 17,288 |  |  |  |  | 14,912 | 17,288 |  |
| 4/4/2021 | FALSE | false | FALSE | 3.31 | 8.34 | 5.91 | 56\% | 40\% | 71\% |  | 1.41 | 6.340968 | 6.12 |  |  |  |  |  |  |  |  | 14,912 | 17,288 |  |  |  |  | 14,912 | 17,288 |  |
| 4/5/2021 | FALSE | false | FALSE | 3.40 | 8.37 | 6.07 | 56\% | 41\% | 73\% |  | 1.38 | 6.34 | 6.12 |  |  |  |  |  |  |  |  | 14,912 | 17,288 |  |  |  |  | 14,912 | 17,288 |  |
| 4/6/2021 | FALSE | false | FALSE | 3.45 | 8.24 | 6.11 | 56\% | 42\% | 74\% |  | 1.35 | 6.340968 | 6.09 |  |  |  |  |  |  |  |  | 14,912 | 17,288 |  |  |  |  | 14,912 | 17,288 |  |
| 4/7/2021 | FALSE | false | FALSE | 3.54 | 8.30 | 6.14 | 58\% | 43\% | 74\% |  | 1.35 | 6.342258 | 6.09 | 110.40 | 549.00 | 4.97 |  | 5,653 | 28,113 |  |  | 13,060 | 19,453 |  | 5,653 | 28,113 |  | 13,060 | 19,453 |  |
| 4/8/2021 | FALSE | false | FALSE | 3.46 | 8.26 | 6.13 | 56\% | 42\% | 74\% |  | 1.35 | 6.340645 | 6.08 |  |  |  |  |  |  |  |  | 13,060 | 19,453 |  |  |  |  | 13,060 | 19,453 |  |
| 4/9/2021 | FALSE | false | false | 3.59 | 8.00 | 6.10 | 59\% | 45\% | 76\% |  | 1.31 | 6.337419 | 6.08 |  |  |  |  |  |  |  |  | 13,104 | 18,150 |  |  |  |  | 13,104 | 18,150 |  |
| 4/10/2021 | FALSE | false | FALSE | 3.54 | 8.12 | 5.94 | 60\% | 44\% | 73\% |  | 1.37 | 6.31871 | 6.05 |  |  |  |  |  |  |  |  | 13,104 | 18,150 |  |  |  |  | 13,104 | 18,150 |  |
| 4/11/2021 | FALSE | false | FALSE | 3.43 | 8.23 | 6.00 | 57\% | 42\% | 73\% |  | 1.37 | 6.31 | 6.05 |  |  |  |  |  |  |  |  | 13,104 | 18,150 |  |  |  |  | 13,104 | 18,150 |  |
| 4/12/2021 | FALSE | false | FALSE | 3.55 | 8.22 | 6.09 | 58\% | 43\% | 74\% |  | 1.35 | 6.308387 | 6.07 |  |  |  |  |  |  |  |  | 13,104 | 18,150 |  |  |  |  | 13,104 | 18,150 |  |
| 4/13/2021 | FALSE | FALSE | FALSE | 3.51 | 8.25 | 6.08 | 58\% | 43\% | 74\% |  | 1.36 | 6.313871 | 6.07 | 317.90 | 256.00 | 0.81 |  | 16,120 | 12,981 |  |  | 13,707 | 17,116 |  | 16,120 | 12,981 |  | 13,707 | 17,116 |  |
| 4/1//2021 | FALSE | false | FALSE | 3.45 | 8.31 | 6.10 | 57\% | 42\% | 73\% |  | 1.36 | 6.313871 | 6.07 |  |  |  |  |  |  |  |  | 13,707 | 17,116 |  |  |  |  | 13,707 | 17,116 |  |
| 4/15/2021 | FALSE | FALSE | FALSE | 3.61 | 8.26 | 6.11 | 59\% | 44\% | 74\% |  | 1.35 | 6.294516 | 6.07 |  |  |  |  |  |  |  |  | 13,707 | 17,116 |  |  |  |  | 13,707 | 17,116 |  |
| 4/16/2021 | FALSE | false | FALSE | 3.54 | 7.98 | 6.07 | 58\% | 44\% | 76\% |  | 1.31 | 6.283226 | 6.06 |  |  |  |  |  |  |  |  | 13,834 | 17,580 |  |  |  |  | 13,834 | 17,580 |  |
| 4/17/2021 | FALSE | FALSE | FALSE | 3.48 | 7.90 | 5.88 | 59\% | 44\% | 74\% |  | 1.34 | 6.270968 | 6.03 |  |  |  |  |  |  |  |  | 13,834 | 17,580 |  |  |  |  | 13,834 | 17,580 |  |
| 4/18/2021 | FALSE | FALSE | FALSE | 3.37 | 8.16 | 5.90 | 57\% | 41\% | 72\% |  | 1.38 | 6.239677 | 6.03 |  |  |  |  |  |  |  |  | 13,834 | 17,580 |  |  |  |  | 13,834 | 17,580 |  |
| 4/19/2021 | FALSE | FALSE | FALSE | 3.53 | 8.00 | 6.04 | 58\% | 44\% | 76\% |  | 1.32 | 6.193548 | 6.03 |  |  |  |  |  |  |  |  | 13,834 | 17,580 |  |  |  |  | 13,834 | 17,580 |  |
| 4/20/2021 | FALSE | FALSE | FALSE | 3.50 | 8.07 | 5.99 | 58\% | 43\% | 74\% |  | 1.35 | 6.167419 | 6.02 | 301.20 | 238.00 | 0.79 |  | 15,047 | 11,890 |  |  | 14,077 | 16,442 |  | 15,047 | 11,890 |  | 14,077 | 16,442 |  |
| 4/21/2021 | FALSE | FALSE | FALSE | 3.64 | 8.15 | 6.13 | 59\% | 45\% | 75\% |  | 1.33 | 6.15129 | 6.03 |  |  |  |  |  |  |  |  | 14,077 | 16,442 |  |  |  |  | 14,077 | 16,442 |  |
| 4/22/2021 | FALSE | FALSE | FALSE | 3.72 | 8.19 | 6.16 | 60\% | 45\% | 75\% |  | 1.33 | 6.132581 | 6.04 |  |  |  |  |  |  |  |  | 14,077 | 16,442 |  |  |  |  | 14,077 | 16,442 |  |
| 4/23/2021 | FALSE | FALSE | FALSE | 3.47 | 7.75 | 6.05 | 57\% | 45\% | 78\% |  | 1.28 | 6.115161 | 6.03 |  |  |  |  |  |  |  |  | ${ }^{13,726}$ | 16,719 |  |  |  |  | 13,726 | 16,719 |  |
| 4/24/2021 | FALSE | FALSE | FALSE | 3.55 | 7.96 | 5.97 | 59\% | 45\% | 75\% |  | 1.33 | 6.096129 | 6.02 |  |  |  |  |  |  |  |  | 13,726 | 16,719 |  |  |  |  | 13,726 | 16,719 |  |
| 4/25/2021 | FALSE | FALSE | TRUE | 3.48 | 8.51 | 6.18 | 56\% | 41\% | 73\% |  | 1.38 | 6.086129 | 6.05 |  |  |  |  |  |  |  |  | ${ }^{13,726}$ | 16,719 |  |  |  |  | 13,726 | 16,719 |  |
| 4/26/2021 | FALSE | false | FALSE | 3.48 | 8.18 | 6.21 | 56\% | 43\% | 76\% |  | 1.32 | 6.083871 | 6.09 |  |  |  |  |  |  |  |  | 13,726 | 16,719 |  |  |  |  | 13,726 | 16,719 |  |
| 4/27/2021 | FALSE | FALSE | FALSE | 3.42 | 8.14 | 6.07 | 56\% | 42\% | 75\% |  | 1.34 | 6.080645 | 6.10 | 348.10 | 260.00 | 0.75 |  | 17,622 | 13,162 |  |  | 14,505 | 16,008 |  | 17,622 | 13,162 |  | 14,505 | 16,008 |  |
| 4/28/2021 | FALSE | FALSE | FALSE | 3.59 | 8.16 | 6.02 | 60\% | 44\% | 74\% |  | 1.36 | 6.077097 | 6.10 |  |  |  |  |  |  |  |  | 14,505 | 16,008 |  |  |  |  | 14,505 | 16,008 |  |
| 4/29/2021 | FALSE | FALSE | FALSE | 3.67 | 7.98 | 6.00 | 61\% | 46\% | 75\% |  | 1.33 | 6.067419 | 6.08 |  |  |  |  |  |  |  |  | 14,505 | 16,008 |  |  |  |  | 14,505 | 16,008 |  |
| 4/30/2021 | FALSE | FALSE | FALSE | 3.62 | 7.75 | 6.04 | 60\% | 47\% | 78\% |  | 1.28 | ${ }^{6.063226}$ | 6.07 |  |  |  |  |  |  |  |  | 13,611 | 16,536 |  |  |  |  | 13,611 | 16,536 |  |
| 5/1/2021 | FALSE | FALSE | FALSE | 0.00 | 0.00 | 0.00 |  |  |  |  |  | 5.863226 | 5.31 |  |  |  |  |  |  |  |  | 13,611 | 16,536 |  |  |  |  | 13,611 | 16,536 |  |
| 5/2/2021 | FALSE | FALSE | FALSE | 0.00 | 0.00 | 0.00 |  |  |  |  |  | 5.666452 | 4.57 |  |  |  |  |  |  |  |  | 13,611 | 16,536 |  |  |  |  | 13,611 | 16,536 |  |
| 5/3/2021 | FALSE | FALSE | FALSE | 0.00 | 0.00 | 0.00 |  |  |  |  |  | 5.467419 | 3.79 |  |  |  |  |  |  |  |  | 13,611 | 16,536 |  |  |  |  | 13,611 | 16,536 |  |
| 5/4/2021 | FALSE | false | FALSE | 0.00 | 0.00 | 0.00 |  |  |  |  |  | 5.273871 | 3.02 |  |  |  |  |  |  |  |  | 13,611 | 16,536 |  |  |  |  | 13,611 | 16,536 |  |
| 5/5/2021 | FALSE | FALSE | false | 0.00 | 0.00 | 0.00 |  |  |  |  |  | 5.083226 | 2.26 |  |  |  |  |  |  |  |  | 13,611 | 16,536 |  |  |  |  | 13,611 | 16,536 |  |
| 5/6/2021 | FALSE | FALSE | FALSE | 0.00 | 0.00 | 0.00 |  |  |  |  |  | 4.887419 | 1.51 |  |  |  |  |  |  |  |  | 13,611 | 16,536 |  |  |  |  | 13,611 | 16,536 |  |
| 5/7/2021 | FALSE | FALSE | FALSE | 0.00 | 0.00 | 0.00 |  |  |  |  |  | 4.690323 | 0.76 |  |  |  |  |  |  |  |  | 13,611 | 16,536 |  |  |  |  | 13,611 | 16,536 |  |
| 5/8/2021 | FALSE | FALSE | FALSE | 0.00 | 0.00 | 0.00 |  |  |  |  |  | 4.492258 | 0.00 |  |  |  |  |  |  |  |  | 16,263 | 12,678 |  |  |  |  | 16,263 | 12,678 |  |
| 5/9/2021 | FALSE | FALSE | FALSE | 0.00 | 0.00 | 0.00 |  |  |  |  |  | 4.294516 4 | 0.00 |  |  |  |  |  |  |  |  | 16,263 | 12,678 |  |  |  |  | 16,263 | 12,678 |  |
| 5/10/2021 | FALSE | FALSE | FALSE | 0.00 | 0.00 | 0.00 |  |  |  |  |  | 4.097742 3 | 0.00 |  |  |  |  |  |  |  |  | 16,263 | 12,678 |  |  |  |  | 16,263 | 12,678 |  |
| 5/11/2021 | FALSE | FALSE | FALSE | 0.00 | 0.00 | 0.00 |  |  |  |  |  | 3.906129 | 0.00 |  |  |  |  |  |  |  |  | 16,263 | 12,678 |  |  |  |  | 16,263 | 12,678 |  |
| 5/12/2021 | FALSE | FALSE | FALSE | 0.00 | 0.00 | 0.00 |  |  |  |  |  | 3.712581 | 0.00 |  |  |  |  |  |  |  |  | 16,263 | 12,678 |  |  |  |  | 16,263 | 12,678 |  |
| 5/13/2021 | FALSE | FALSE | FALSE | 0.00 | 0.00 | 0.00 |  |  |  |  |  | ${ }_{3.516129}$ | 0.00 |  |  |  |  |  |  |  |  | 16,263 | 12,678 |  |  |  |  | 16,263 | 12,678 |  |
| $5 / 14 / 2021$ | FALLE | FALSE | FAALSE | $\begin{aligned} & 0.00 \\ & 0.00 \end{aligned}$ | $\begin{aligned} & 0.00 \\ & 0.00 \end{aligned}$ | $\begin{aligned} & 0.00 \\ & 0.00 \end{aligned}$ |  |  |  |  |  | $\begin{aligned} & 3.32 \\ & 3.123226 \end{aligned}$ | $\begin{aligned} & 0.00 \\ & 0.00 \end{aligned}$ |  |  |  |  |  |  |  |  | 16,335 16,335 | 12,526 12,526 |  |  |  |  | 16,335 16,335 | 12,526 12,526 |  |
| 5/16/2021 | ${ }_{\text {FALLSE }}$ | FALSE | FALSE | 0.00 0.00 | 0.00 | 0.00 0.00 |  |  |  |  |  | 3.122362 2.92129 | 0.00 |  |  |  |  |  |  |  |  | 116,335 | 12,526 |  |  |  |  | 16,335 | 12,526 |  |
| 5/17/2021 | FALSE | false | FALSE | 0.00 | 0.00 | 0.00 |  |  |  |  |  | 2.730323 | 0.00 |  |  |  |  |  |  |  |  | 16,335 | 12,526 |  |  |  |  | 16,335 | 12,526 |  |
| 5/18/2021 | FALSE | false | FALSE | 0.00 | 0.00 | 0.00 |  |  |  |  |  | 2.540645 | 0.00 |  |  |  |  |  |  |  |  | 16,335 | 12,526 |  |  |  |  | 16,335 | 12,526 |  |
| 5/19/2021 | FALSE | false | FALSE | 0.00 | 0.00 | 0.00 |  |  |  |  |  | 2.350323 | 0.00 |  |  |  |  |  |  |  |  | 16,335 | 12,526 |  |  |  |  | 16,335 | 12,526 |  |
| 5/20/2021 | FALSE | false | false | 0.00 | 0.00 | 0.00 |  |  |  |  |  | 2.155484 | 0.00 |  |  |  |  |  |  |  |  | 16,335 | 12,526 |  |  |  |  | 16,335 | 12,526 |  |
| 5/21/2021 | FALSE | TRUE | FALSE | 0.00 | 0.00 | 0.00 |  |  |  |  |  | 1.962258 | 0.00 |  |  |  |  |  |  |  |  | 17,622 | 13,162 |  |  |  |  | 17,622 | 13,162 |  |
| 5/22/2021 $5 / 23 / 2021$ | FALSE | true | FALSE | 0.00 | 0.00 | 0.00 |  |  |  |  |  | 1.764516 | 0.00 |  |  |  |  |  |  |  |  | 17,622 | 13,162 |  |  |  |  | 17,622 | 13,162 |  |
| 5/23/2021 | FALLE | TRUE TRUE | FALSE | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 |  |  |  |  |  | 1.565806 1.370645 | 0.00 0.00 |  |  |  |  |  |  |  |  | 17,622 17,622 | 13,162 13,162 |  |  |  |  | 17,622 17,622 | 13,162 13,162 |  |
| 5/25/2021 | FALSE | TRUE | FALSE | 0.00 | 0.00 | 0.00 |  |  |  |  |  | 1.1788065 | 0.00 |  |  |  |  |  |  |  |  | 17,622 | 13,162 13,162 |  |  |  |  | 17,622 | 13,162 13,162 |  |
| 5/26/2021 | FALSE | true | FALSE | 0.00 | 0.00 | 0.00 |  |  |  |  |  | 0.97871 | 0.00 |  |  |  |  |  |  |  |  | 17,622 | 13,162 |  |  |  |  | 17,622 | 13,162 |  |


| Date | $\begin{aligned} & \text { Butte } \\ & \text { Break? } \end{aligned}$ | $\begin{gathered} \text { csu } \\ \text { Break? } \end{gathered}$ | Precip? | $\begin{gathered} \text { Min } \\ \text { Influent } \\ \text { Flow, mgd } \end{gathered}$ | $\begin{gathered} \text { Max } \\ \text { Influent } \\ \text { Flow, } \mathrm{mgd} \end{gathered}$ | $\begin{gathered} \text { Avg } \\ \substack{\text { Anfluent } \\ \text { Flow, mgd }} \end{gathered}$ | $\underset{\text { Avg of }}{\substack{\text { Avi }}}$ | $\underset{\text { max }}{\min _{2} \text { of }}$ | Avg \% of Max | $\begin{aligned} & \text { Flow } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | $\begin{aligned} & \text { Diurnal } \\ & \text { Peak } \\ & \text { Factor } \\ & \text { (DPF) } \end{aligned}$ | 30-d Avg of Avg Flow, mgd | 7-d Avg of Avg Flow, mgd | Influent TSS Conc., mg/L | Influent BOD Conc., mg/L | BOD/TSS | Influent NH3-N Conc., mg/L | Avg $\operatorname{lnf}$ TSS Load, ppd | Avg Inf BOD Load, ppd | Avg linf NH3 Load, ppd | $\begin{aligned} & \text { Load } \\ & \text { Outlier } \\ & \text { Type } \end{aligned}$ | 30-d Avg of TSS Load, ppd | $\begin{aligned} & \text { 30.d Avg } \\ & \text { of BOD } \end{aligned}$ $\begin{aligned} & \text { of BOD } \\ & \text { Load. pod } \end{aligned}$ Load, ppd | 30-d Avg of NH3-N Load, ppd | $\begin{aligned} & \text { non-SN } \\ & \text { TSS Load, } \\ & \text { ppd } \end{aligned}$ | $\begin{gathered} \text { non-SN } \\ \text { BOD Load, } \\ \text { ppd } \end{gathered}$ | non-SN NH3 Load, ppd | $\begin{gathered} \text { 30-d Avg } \\ \text { of non-SN } \\ \text { TSS Load, } \\ \text { ppd } \end{gathered}$ | 30-d Avg <br> of non-SN <br> BOD Load <br> ppd | 30-d Avg of non-SN NH3-N Load, ppo |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5/27/2021 | FALSE | TRUE | FALSE | 0.00 | 0.00 | 0.00 |  |  |  |  |  | 0.778387 | 0.00 |  |  |  |  |  |  |  |  | 17,622 | 13,162 |  |  |  |  | 17,622 | 13,162 |  |
| 5/28/2021 | TRUE | TRUE | FALSE | 0.00 | 0.00 | 0.00 |  |  |  |  |  | 0.582581 | 0.00 |  |  |  |  |  |  |  |  | \#Div/0! | \#DiV/0! |  |  |  |  | \#Div/0! | \#Div/0! |  |
| 5/29/2021 | TRUE | TRUE | FALSE | 0.00 | 0.00 | 0.00 |  |  |  |  |  | 0.388387 | 0.00 |  |  |  |  |  |  |  |  | \#DiV/0! | \#DiV/0! |  |  |  |  | \#DiV/0! | \#DIV/0! |  |
| 5/30/2021 | TRUE | TRUE | FALSE | 0.00 | 0.00 | 0.00 |  |  |  |  |  | 0.194839 | 0.00 |  |  |  |  |  |  |  |  | \#DiV/0! | \#Div/0! |  |  |  |  | \#Div/0! | \#Div/0! |  |
| 5/31/2021 | true | true | false | 0.00 | 0.00 | 0.00 |  |  |  |  |  | - | 0.00 |  |  |  |  |  |  |  |  | \#DIV/0! | \#DiV/0! |  |  |  |  | \#DiV/0! | \#DIV/0! |  |

## INSURANCE REQUIREMENTS

Town shall comply with the following insurance requirements unless the City specifically approves a deviation in writing:

1. Prior to the commencement of any construction work for the Project, Town shall procure and maintain in force the following coverages through the term of the IMA and provide the City with the appropriate certificate of insurance/memorandum of coverage and related documents.
1.1 Commercial General Liability Insurance. A commercial general liability insurance or equivalent with limits not less than:
1.1.1 Each Occurrence: \$5,000,000
1.1.2 General Aggregate: $\$ 5,000,000$
1.1.3 Products/Completed Operations Aggregate: \$5,000,000

### 1.1.4 Personal Injury: \$5,000,000

Town may utilize an excess liability policy (following form coverage) to meet the required limits of coverage. Insurance deductibles greater than [\$25,000] must be declared on the certificate of insurance and are subject to approval by the City.

The City must be named as an additional insured party. Additional insured endorsement ISO Form CG2010 1185 or equivalent form must be attached to the certificate of insurance evidencing completed operations coverage in order to be valid.

The policy or coverage must contain a waiver of subrogation in favor of all additional insureds. Any waiver of subrogation must be endorsed by the contractor's general liability insurance company on ISO Form CG 24 04 10/93 "Waiver of Transfer of Rights of Recovery Against Others to Us" or its equivalent.

Coverage afforded must be primary and non-contributing with any other insurance coverage maintained by the additional insured parties and the policy must provide for severability of interests. The severability of interest clause must state: "the term 'insured' is hereby used severally and not collectively, but the inclusion herein of more than one insured shall not operate to increase the limits of the insurer's liability."
1.2 Automobile Liability. A policy of automobile liability insurance having a combined single limit of at least $\$ 1,000,000$. The policy must name the City as an additional insured party. Coverage must provide for the loading and unloading of vehicles and liabilities arising out of the use of hired and/or non-owned vehicles.
1.3 Workers' Compensation. Workers compensation insurance as required by applicable state law for employees engaged in work at any job site or operation. The policy must provide a waiver of subrogation in favor of the City. Such waiver of subrogation must be
endorsed by the workers compensation insurance company. In addition, employers liability insurance must be provided in amounts not less than:

$$
\begin{array}{lll}
1.3 .1 & \$ 1,000,000 & \text { Each Accident for Bodily Injury by Accident } \\
1.3 .2 & \$ 1,000,000 & \text { Policy Limit for Bodily Injury by Disease } \\
1.3 .3 & \$ 1,000,000 & \text { Each Employee for Bodily Injury by Disease }
\end{array}
$$

1.4 Pollution Liability. Pollution/environmental liability insurance with limits of $\$ 2,000,000$ covering liability arising from the sudden and accidental release of pollution on or near the sites of the Project or Regional Facilities.
2. Town shall provide proof of insurance to the City.
2.1 Commencing with the construction work. Insurance may be satisfied by the contractor.
2.2 The certificate of insurance for the City will be made to:

## Certificate Holder:

## Address:

3. Town must maintain the required insurance continuously during the effectiveness of this Agreement. However, Town's liabilities under this Agreement are not limited in any manner to the insurance coverage required. Insurance is to be maintained with insurers having at least an A-VII or greater policyholder's rating in accordance with the current A. M. Best Rating Guide, or equivalent insurer rating service. In addition, any and all insurers must be authorized to conduct business in the State of California.
4. Each required insurance policy must be endorsed to state that coverage will not be suspended, voided, cancelled, reduced in coverage or limits except after a 30 day prior written notice, 10 days for non-payment of premium, has been submitted to the City.
5. Town is responsible to pay the insurance deductibles required by its policies. If the City directs Town to pay the insurance deductible, Town shall do so promptly and in accordance with policy requirements.
6. Town's contractors shall provide equivalent coverage. Any waiver of subrogation must be endorsed by the contractor’s general liability insurance company on ISO Form CG 2404 10/93 "Waiver of Transfer of Rights of Recovery Against Others to Us" or its equivalent. Coverage must provide for the loading and unloading of vehicles and liabilities arising out of the use of hired and/or non-owned vehicles.

Town of Paradise
Council Agenda Summary
Agenda Item: 6(e)
Date: February 14, 2023

ORIGINATED BY:
REVIEWED BY:
SUBJECT:

Scott Huber, Town Attorney

Kevin Phillips, Town Manager
Consider the Creation of the Legislative Committee, a Standing Committee of the Town Council

No.
LONG TERM RECOVERY PLAN:

## COUNCIL ACTION REQUESTED:

Upon conclusion of public discussion of this agenda item:

1. Consider establishing a standing committee of the Town Council entitled "Legislative Committee" and appoint two members of the Council to the serve on the committee, including setting policies and priorities of the committee; or,
2. Provide an alternative directive to Town staff.

## Background:

At the request of Council Member Tryon, and with the concurrence of other members of the Council, this matter is placed on the agenda for consideration to establishing a committee to track legislation of impact on the Town and to interact with state and federal legislators related to legislation and administrative regulations.

## Analysis:

At the January 10, 2023 Town Council Meeting, Council Member Tryon requested the Council to consider the creation of a Legislative Committee. The purpose of a Legislative Committee would be to track state and federal legislation and administrative regulation that have an impact on the Town. Further, the Committee would be tasked with representing the Town before legislative and regulatory bodies to work with elected and appointed officials to make recommendations on legislative advocacy issues that benefit the Town and its residents.

If established, the Legislative Committee members would regularly report to the Council regarding state and federal legislation that may impact the Town and seek direction from the Town Council as to what position they should take when interacting with elected and appointed officials.

Upon establishment of the Legislative Committee, the Town Council should appoint one or two members of the Council to serve on the Legislative Committee. In addition, the Town Manager should be assigned the task of interacting with the Committee.

## Financial Impact:

None at this time. In the future, there may be certain travel expenses incurred with Committee member travel to meet with state and federal legislators and administrative regulatory bodies.

Town of Paradise
Council Agenda Summary
Agenda Item: 6(f)

ORIGINATED BY:
REVIEWED BY:
SUBJECT:

Date: February 14, 2023

Ross Gilb, Finance Director / Town Treasurer
Kevin Phillips, Town Manager
FY 2022-23 Operating and Capital Budget Update

## COUNCIL ACTION REQUESTED:

1. Review and file the financial information provided by staff concerning the FY 2022-23 operating and capital budgets; and
2. Approve position control from 1.0 to 0.9 FTE for the Senior Accountant position; and
3. Approve position control from 0.6 to 0.9 FTE for the Administrative Assistant (Public Works) position; and
4. Approve the job classification of Engineering Intern and add this new position to the salary pay plan and position control; and
5. Approve the job classification of Accounting Analyst and add this new position to the salary pay plan and position control; and
6. Adopt Resolution No. 23-_, A Resolution of the Town Council of the Town of Paradise, California adopting the amended Salary Pay Plan for Town of Paradise Employees for the Fiscal Year 2022-2023; and
7. Approve staff recommended budget adjustments.

## Background:

The fiscal year (FY) 2022-23 operating and capital budgets were adopted July 12, 2022. The General Fund was adopted with a balanced budget, which was achieved through a transfer from the PG\&E Settlement funds to compensate for revenue shortfalls resulting from the 2018 Camp Fire. During the September 13, September 15, and October 11, 2022 Town Council Meetings, Council approved additional expenditures relating to the restoration of dispatch services project (CIP \#7324), the Category 4 Tree Removal program (CIP \#7312), various capital projects relating to CDBG-DR Infrastructure funding, and additional public works department positions. Further adjustments to the amended operating and capital budgets were adopted by Council during the November 7, 2022 regularly scheduled Council meeting, based on recommendations resulting from detailed analysis of financial activity occurring during the first four months of the fiscal year.

Currently, about seven months of transactions have been recorded for the current fiscal year. Revenues and expenditures from the beginning of FY 2022-23 through the end of January 2023 have been recorded and reviewed in preparation of the analysis below. Staff will continue to closely monitor costs and prepare recommended budget updates regularly to keep the Town Council and community apprised of any significant changes.

## Analysis:

A complete budget performance report is attached for detail review, which contains unaudited actual figures for FY 2021-22, the adopted budget for FY 2022-23, the currently amended budget for FY 2022-23 including amendments approved by Council during meetings from the beginning of the fiscal year through January 10, 2023, actual revenues and expenditures to date, proposed budget amendments by general ledger account, and the proposed amended budget for FY 202223. The most significant developments are described in detail for each major fund below. Additionally, all recommended budget adjustments have been summarized in the attached Adjustment Summary document as well as listed in detail for each fund affected in the attached Budget Worksheet Report.

## Staffing Update

Public Works
Administrative Assistant

- Public works staff has identified the need to increase the hours for this position from 24 to 36 per week. The increase in hours will provide better coverage for the department as well as better support for grant reimbursement processes.
- The increase in hours for this position would change the position status from part time to full time. The total financial impact of this change is expected to be approximately $\$ 18,500$ for an entire fiscal year. The financial impact for the current fiscal year is expected to be approximately $\$ 7,000$.

Engineering Intern

- Public works staff has identified the need for an engineering intern. This position is recommended to work full time (40 hours per week) for three months out of the fill fiscal year annually. The intern will perform soon to be outdated engineering and traffic surveys to ensure local speed limits are legally enforceable while providing minor support to active construction projects.
- The total financial impact of this position is expected to be approximately $\$ 11,250$ annually.


## Finance

Accounting Analyst

- The 2018 Camp Fire and the subsequent recovery process has created a monumental increase in activity and responsibility in the Finance Department. Post Camp Fire, the sheer volume of invoices, receivables, as well as the complexity of the grant projects and related grant reimbursements has increased substantially. It has become apparent that there is a need for additional personnel resource in the Finance Department to support the burdensome administration of these reimbursements. Initially, a need for a position of this nature was identified as a Grant Administrator in the Recovery Department, however, as project reimbursement processes unfold, it is best served in the Finance Department. Ultimately this is where the reimbursement administration and processing come together. The substantially higher volume and complexity of the funding sources, including a host of different governmental agencies, equates to onerous reimbursement processes. Additional personnel are needed to ensure reimbursements are eligible and timely, and to support the overall increased workload that the Finance department has experienced following the Camp Fire.
- This salary pay plan placement of this position is recommended to be equivalent to that of the currently approved Accountant position, which ranges from $\$ 30.44$ (Step A) to $\$ 38.85$ (Step F). The total annual financial impact of this position, including wages and benefits,
is expected to be approximately $\$ 96,000$. However, as this position is anticipated to support the grant administration process, an estimated $60 \%(\$ 58,000)$ of the total annual cost is expected to be recoverable through grant project funding. As such, only $40 \%$ $(\$ 38,000)$ of the total annual cost would result in a General Fund impact.
- Based on a conservatively estimated start date of mid-March 2023, the total financial impact of this position for the current fiscal year is estimated to be $\$ 28,000$. $\$ 16,800$ of this total would be expected to be recoverable through grant funding, resulting in a total General Fund impact of $\$ 11,200$.


## Senior Accountant

- Finance staff has requested a reduction in the hours for this position from 40 to 36 per week.
- The total General Fund savings of this reduction in hours is expected to be approximately $\$ 10,000$ for an entire fiscal year. The General Fund savings for the current fiscal year is expected to be approximately $\$ 4,000$.


## Actual Financial Activity Review through January 30, 2023

## General Fund (1010):

## Revenues:

Property tax and sales tax revenues make up the majority of the Town's General Fund revenue budget. Overall, the Town's property and sales tax revenues are trending at or above budgeted expectations for the first seven months of fiscal activity. A summary of the most significant General Fund revenue sources is included below.

| G/L Account Number | Account Description FY 2021-22 <br> Unaudited <br> Actual <br> Amount | FY 2022-23 <br> Adopted <br> Budget | FY 2022-23 <br> Amended <br> Budget | FY 2022-23 <br> Actuals <br> to Date |  |
| :--- | :--- | ---: | ---: | ---: | ---: |
| $\mathbf{1 0 1 0 . 0 0 . 0 0 0 0 . 3 1 1 0 . 3 1 1 ~}$ | Property Tax Current Secured | $\mathbf{2 , 3 6 8 , 0 2 3}$ | $\mathbf{2 , 3 4 0 , 0 0 0}$ | $\mathbf{2 , 3 4 0 , 0 0 0}$ | $\mathbf{1 , 6 8 0 , 2 7 9}$ |
| $\mathbf{1 0 1 0 . 0 0 . 0 0 0 0 . 3 1 1 0 . 3 1 2}$ | Property Tax Current Unsecured | $\mathbf{1 0 7 , 5 7 5}$ | $\mathbf{1 1 6 , 5 0 0}$ | $\mathbf{1 1 6 , 5 0 0}$ | $\mathbf{1 3 4 , 4 2 0}$ |
| $\mathbf{1 0 1 0 . 0 0 . 0 0 0 0 . 3 1 3 0 . 3 2 5}$ | General Sales and Use Tax Sales and Use Tax | $\mathbf{1 , 1 9 8 , 9 2 9}$ | $\mathbf{1 , 0 0 0 , 0 0 0}$ | $\mathbf{1 , 0 0 0 , 0 0 0}$ | $\mathbf{3 0 4 , 1 4 2}$ |
| $\mathbf{1 0 1 0 . 0 0 . 0 0 0 0 . 3 1 8 2 . 3 3 5 ~}$ | Franchise Taxes Franchise Taxes | $\mathbf{3 8 6 , 8 1 7}$ | $\mathbf{3 4 7 , 0 0 0}$ | $\mathbf{3 4 7 , 0 0 0}$ | $\mathbf{7 9 , 6 3 4}$ |
| $\mathbf{1 0 1 0 . 0 0 . 0 0 0 0 . 3 1 8 5 . 3 4 0}$ | Transient Occupancy Tax Transient Occupancy Tax | $\mathbf{2 2 5 , 7 2 2}$ | $\mathbf{2 0 0 , 0 0 0}$ | $\mathbf{2 0 0 , 0 0 0}$ | $\mathbf{5 9 , 2 5 4}$ |
| $\mathbf{1 0 1 0 . 0 0 . 0 0 0 0 . 3 3 5 6 . 0 0 1}$ | State Motor Vehicle In Lieu Motor Vehicle In Lieu Tax | $\mathbf{1 , 0 6 7 , 6 0 4}$ | $\mathbf{1 , 0 9 7 , 0 0 0}$ | $\mathbf{1 , 0 9 7 , 0 0 0}$ | $\mathbf{6 5 9 , 7 9 4}$ |

## Expenditures:

Overall, General Fund expenditures are largely within revised budgeted expectations for the first seven months of the fiscal year.

Based on detailed analysis of the General Fund financial activity, additional General Fund expenditures totaling $\$ 145,500$ have been proposed as budget adjustments for the mid-year review period. In order to maintain a balanced General Fund budget, the additional expenditures are proposed to be offset by additionally identified General Fund revenues totaling \$40,000 and an additional transfer from the PG\&E Settlement Funds totaling $\$ 105,500$. The total revised proposed budgeted transfer from the PG\&E Settlement Fund of $\$ 11,280,797$ is still within the maximum annual transfer as projected using the medium rate growth projection in the Town's long-term fiscal sustainability model.

The recommended changes by department are summarized in the chart below. A detailed description of each change by department is also provided.

| TOWN OF PARADISE General Fund Expenditure Summary by Division Fiscal Year 2022/23 Budget |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Description | 2021/22 <br> Unaudited <br> Acutal |  | 2022/23 <br> Adopted <br> Budget |  | 2022/23 <br> Amended Budget |  | 2022/23 <br> Actual to Date |  | 2022/23 <br> Proposed <br> Adjustments |  | 2022/23 <br> Proposed <br> Budget |  |
| Non Departmental | \$ | 1,323,274 | \$ | 1,734,773 | \$ | 1,734,773 | \$ | 29,959 | \$ | - | \$ | 1,734,773 |
| Town Council |  | 36,066 |  | 37,600 |  | 39,100 |  | 20,123 |  | - |  | 39,100 |
| Town Clerk |  | 257,213 |  | 334,531 |  | 334,531 |  | 183,306 |  | - |  | 334,531 |
| Town Manager |  | 294,433 |  | 370,179 |  | 370,179 |  | 196,498 |  | - |  | 370,179 |
| Central Services |  | 593,519 |  | 665,138 |  | 677,838 |  | 523,331 |  | - |  | 677,838 |
| Information Technology |  | 95,838 |  | - |  | - |  | - |  | - |  |  |
| HR \& Risk Management |  | 210,709 |  | 226,733 |  | 226,733 |  | 128,123 |  | - |  | 226,733 |
| Legal Services |  | 156,559 |  | 203,110 |  | 203,110 |  | 10,593 |  | - |  | 203,110 |
| Finance |  | 293,384 |  | 309,762 |  | 311,912 |  | 137,957 |  | 7,200 |  | 319,112 |
| Police |  | 5,405,275 |  | 6,118,298 |  | 6,130,798 |  | 3,703,214 |  | 3,400 |  | 6,134,198 |
| Fire |  | 4,511,280 |  | 5,857,303 |  | 5,857,303 |  | 1,180,733 |  | 1,650 |  | 5,858,953 |
| Community Development |  | 586,049 |  | 1,469,713 |  | 1,469,713 |  | 333,519 |  | - |  | 1,469,713 |
| Public Works |  | 1,212,520 |  | 1,226,280 |  | 1,704,300 |  | 820,779 |  | 133,250 |  | 1,837,550 |
| Subtotal |  | 14,976,118 |  | 18,553,420 |  | 19,060,290 |  | 7,268,134 |  | 145,500 |  | 19,205,790 |
| Measure V |  | 1,183,046 |  | 1,510,994 |  | 1,654,994 |  | 804,114 |  | - |  | 1,654,994 |
| Grand Total | \$ | 16,159,164 | \$ | 20,064,414 | \$ | 20,715,284 | \$ | 8,072,248 | \$ | 145,500 | \$ | 20,860,784 |

## Measure V:

- \$0 Net Impact: During the second quarter of FY 2022/23, the Town worked with Northern Recycling and Waste Services (NRWS) to secure funding that would provide an additional $\$ 75,000$ towards the total purchase price of the previously approved Public Works street sweeper. This reduces the total expenditure budgeted from Measure V needed for this purchase from $\$ 144,000$ to $\$ 69,000$, and provides $\$ 75,000$ from the amended Measure V budget that can be reallocated towards other expenditures. Based on the most urgent needs identified by staff, the $\$ 75,000$ is proposed to be reallocated toward the following budgeted expenditures:
- $\$ 32,000$ : In-Vehicle Cameras for 3 New Chevy Tahoes to be integrated into police department body-worn and in-vehicle camera program.
- $\$ 30,000$ : Fire Utility Vehicle based on additional funding need due to inflationary pressures since initial budget development. The additionally proposed $\$ 30,000$ funding would be applied toward the previously budgeted $\$ 20,000$ in funding from Measure V, as well as an additional $\$ 50,000$ in General Fund budget to meet the total estimated purchase price of approximately $\$ 100,000$.
- \$7,000: Animal Control Vehicle based on additional funding need due to inflationary pressures since initial budget development. The additionally proposed $\$ 7,000$ funding would be applied toward the previously budgeted $\$ 43,000$ in funding from Measure V , as well as additional USDA grant revenue funding to meet the total estimated purchase price of approximately $\$ 120,000$.
- \$4,000: K-9 Upfit of 1 Chevy Tahoe for additional K-9 unit brought on during the second quarter of FY 2022/23. The proposed budget of $\$ 4,000$ would support the upfit costs of one of the newly purchased Chevy Tahoes to accommodate this additional K-9.
- \$2,000: Training for 1 additional K-9 brought on during the second quarter of FY 2022/23. The proposed budget of $\$ 2,000$ would support the ongoing K-9 training costs for the second half of the fiscal year.
- The proposed amendment and revised budget, as described above, was presented to, and approved by the Measure V Citizen Oversight Committee on January 24, 2023.


## Town Clerk:

- \$0 Net Impact: The Town Clerk department has identified additional budget needs totaling $\$ 6,320$ for office supplies, a program to ensure website ADA compliance, 8 hours of overtime for staff to attend committee meetings to aid in succession planning, and additional employee development expenses to allow for attendance at the annual CCAC Conference. The additional budget needs are offset by budget savings realized in the actual cost of the election, which results in a net $\$ 0$ General fund impact.


## Information Technology

- \$0 Net Impact: The IT department has identified additional professional services needs totaling approximately $\$ 50,000$ to allow for continued support of the department for the remainder of the fiscal year. The additional cost of these services is offset by an additional transfer from the Technology Equipment Replacement Fund, which results in a net \$0 General Fund impact.

Finance

- \$7,200 Increase: As described in the Staffing Update section above, the Finance department has proposed the addition of an Accounting Analyst position, as well as the reduction in the weekly hours for the Senior Accountant position from 40 to 36. The General Fund net impact of these staffing changes for the current fiscal year is estimated to be $\$ 7,200$.


## Police Department

- \$3,400 Increase: The Police Department has identified \$1,200 of additional improvements needs based on actual quoted costs above original estimates for the budgeted project to repair the station front doors and the administrative assistant office enclosure. Additionally, $\$ 2,200$ has been identified as a need for ongoing connectivity costs for six additional in vehicle / body worn cameras to be incorporated into the Town wide system.


## Fire Department

- \$1,650 Increase: The actual cost of the Town's annual HazMat JPA County agreement has increased approximately $\$ 550$ above original budget expectations as a result of the growing population within the Town limits. Additionally, Emergency Operations staff has identified an additional budget need of $\$ 1,100$ to allow for printing and lamination of Town maps and restocking of EOC supplies to ensure the Town EOC is properly prepared in the event of an emergency.


## Public Works Fleet

- \$70,000 Increase: The Public Works Fleet department has identified additional budget needs totaling $\$ 70,000$ for additional repair and maintenance supplies and services $(\$ 65,000)$, operating supplies $(\$ 4,000)$ and fuel $(\$ 1,000)$ to support the fleet for the remainder of the fiscal year. The additional cost above original budget expectations are the result of increased output of the fleet department in keeping up with scheduled maintenance as opposed to responding only to emergency repairs, inflation leading to higher prices of parts, and the growing size of the town-wide fleet.


## Public Works Engineering

- \$18,250 Increase: As described in the Staffing Update section above, the Engineering department has proposed the addition of an Engineering Intern position, as well as the increase in the weekly hours for the Administrative Assistant position from 24 to 36. The General Fund net impact of these staffing changes for the current fiscal year is estimated
to be $\$ 18,250$.
- \$5,000 Increase: Public works staff has identified the need for a total of \$6,500 above the original budget estimates to assist in the recruitment and hiring efforts of the newly approved positions. These costs are expected to be partially offset by a $\$ 1,500$ savings in original budget estimates for wages, resulting in a net $\$ 5,000$ General Fund impact.


## Facilities

- \$0 Net Impact: The originally adopted budget included an estimate for the planned replacement of the fuel island and related software serving the Town fleet. The actual quote for this replacement was $\$ 12,000$ over the original budget estimate. The additional costs for this project are proposed to be reallocated from the budgeted purchase of tire equipment for the fleet, which staff has suggested to be postponed until next fiscal year.


## General Fund Fiscal Impact and Fund Summary:

The recommended General Fund budget amendments includes $\$ 145,500$ of total additional expenditures, which is offset by $\$ 40,000$ of additional revenues. This leaves a total of $\$ 105,500$ of additional funding requirements. In order to balance the General Fund budget, an additional transfer from the PG\&E Settlement Fund in the amount of $\$ 105,500$ is recommended. This additional recommended transfer amount brings the total proposed budgeted transfer from the settlement funds to $\$ 11,280,797$ for the full fiscal year. The Fiscal Sustainability Model has been updated based on this amended transfer amount to ensure ongoing fiscal sustainability based on a medium growth scenario. The details of the updates to the Fiscal Sustainability Model have been included below. A General Fund and PG\&E Settlement Fund budget summary is also included below which presents the beginning fund balances, original and amended budget figures, and summarized actual results to date. A full detail of all figures presented below is included in the attached Budget Worksheet Reports.

|  | TOWN OF PARADISE General Fund (GF) Summary Fiscal Year 2022/23 Budget |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Description | 2021/22 <br> Unaudited Acutal | $\begin{gathered} 2022 / 23 \\ \text { Adopted } \\ \text { Budget } \end{gathered}$ | 2022/23 <br> Amended Budget | 2022/23 <br> Actual to Date | 2022/23 <br> Proposed Adjustments | 2022/23 <br> Proposed <br> Budget |
| Beginning Fund Balance |  |  |  |  |  |  |
| GF (excluding Measure V) | 2,265,760 | 2,265,760 | 2,265,760 | 2,265,760 |  | 2,265,760 |
| Measure V | 1,672,024 | 1,790,220 | 1,790,220 | 1,790,220 |  | 1,790,220 |
| Measure V (encumbrances) | $(364,694)$ | $(562,162)$ | $(562,162)$ | $(562,162)$ |  | $(562,162)$ |
| Total | 3,573,090 | 3,493,818 | 3,493,818 | 3,493,818 |  | 3,493,818 |
|  |  |  |  |  |  |  |
| GF Revenues | 7,694,514 | 5,751,853 | 5,770,085 | 3,547,513 | 40,000 | 5,810,085 |
| GF Transfers In | 7,283,123 | 12,801,567 | 13,290,205 | 3,723,094 | 105,500 | 13,395,705 |
| GF Expenditures / Transfers Out (excluding Measure V) | 14,977,637 | 18,553,420 | 19,060,290 | 7,270,607 | 145,500 | 19,205,790 |
| GF Net Income (Expense) | - | - | - | - | - | - |
|  |  |  |  |  |  |  |
| Measure V Revenues | 1,299,723 | 1,200,000 | 1,200,000 | 384,685 | - | 1,200,000 |
| Measure V Expenditures | 1,181,527 | 1,510,994 | 1,654,994 | 801,641 | - | 1,654,994 |
| Measure V Net Income (Expense) | 118,196 | $(310,994)$ | $(454,994)$ | $(416,956)$ | - | $(454,994)$ |
|  |  |  |  |  |  |  |
| Ending Fund Balance |  |  |  |  |  |  |
| GF (excluding Measure V) | 2,265,760 | 2,265,760 | 2,265,760 | 2,265,760 |  | 2,265,760 |
| Measure V | 1,790,220 | 1,479,226 | 1,335,226 | 1,373,264 |  | 1,335,226 |
| Measure V (encumbrances) | $(562,162)$ | $(562,162)$ | $(562,162)$ | $(549,775)$ |  | $(562,162)$ |
| Total | 3,493,818 | 3,182,824 | 3,038,824 | 3,089,249 |  | 3,038,824 |
|  |  |  |  |  |  |  |
| PGE Settlement Fund |  |  |  |  |  |  |
| Beginning Fund Balance | 220,091,398 | 214,971,613 | 214,971,613 | 214,971,613 |  | 214,971,613 |
| Revenues | 959,687 | 1,100,000 | 3,327,843 | 2,917,815 | - | 3,327,843 |
| Expenditures / Transfers Out | 6,079,472 | 11,069,377 | 11,259,297 | 3,724,220 | 105,500 | 11,364,797 |
| Ending Fund Balance | 214,971,613 | 205,002,236 | 207,040,159 | 214,165,208 | $(105,500)$ | 206,934,659 |

General Fund Long Term Fiscal Sustainability Model Impact:
The originally adopted budget for FY 2022-23 included a transfer from the PG\&E Fund to the General Fund totaling $\$ 10,985,377$. The originally budgeted transfer amount maintained an ending reserve balance of the PG\&E Settlement Fund of \$205,002,236 as of the end of FY 202223. Based on the fiscal sustainability model projections from the FY 2022-23 adopted budget, the amount of the original settlement amount reserved for use toward operational costs ( $\sim 200$ million) remaining as of the end of the 25 -year projection period is projected to be $\$ 64$ million, as shown in the charts below.

The amendments to the originally adopted budget that were approved by Council during the September 13, 2022, September 15, 2022, October 11, 2022, and November 7, 2022 Council meetings increased the total projected General Fund expenditures for FY 2022-23 by \$189,920. These General Fund impacts increased the revised estimated total projected transfer needed from the PG\&E Fund to balance the General Fund to $\$ 11,175,297$.
During the first quarter of the fiscal year, the Town received reimbursement of the $1 \%$ total settlement amount that was originally held back during the settlement to pay for trailing legal costs. The amount of the reimbursement received by the Town was equal to $1 \%$ of the total settlement amount $(\$ 2,700,000)$ less final attorney fees $(\$ 472,157)$, for a net reimbursement of \$2,227,843.
The net effect of the additional increase to the budgeted transfer from the PG\&E Fund and the trailing cost reimbursement is projected to maintain an estimated balance of the PG\&E Fund at the end of FY 2022-23 to \$207,040,159 based on the currently amended budget.
Based on the updated fiscal sustainability model projections from the receipt of the trailing costs reimbursement and recurring additional budget amendments incorporated into the FY 2022-23 amended budget, the amount of the original settlement amount reserved for use toward operational costs ( $\sim 200$ million) remaining as of the end of the 25 -year projection period is projected to be approximately $\$ 1.6$ million less than the original estimate based on the adopted budget, or $\$ 62.4$ million.

Based on review of the actual fiscal activity compared to the amended budget through January 2023, staff has proposed net additional General Fund expenditures totaling \$100,500, which would bring the revised estimated total projected transfer from the PG\&E Fund required to balance the General Fund to $\$ 11,280,297$. The additional expenditures for the Town fleet department are expected to be one-time expenditures that should not be expected to recur in future fiscal years, while the remaining $\$ 30,500$ of general fund expenditures are expected be recurring.
Based on the further updated fiscal sustainability model projections from the recurring additional General Fund budgeted expenditures incorporated into the FY 2022-23 amended budget, as described above, the amount of the original settlement amount reserved for use toward operational costs ( $\sim \$ 200$ million) remaining as of the end of the 25 -year projection period after is projected to be approximately $\$ 2.4$ million less than the amended estimate based on the currently amended budget, or $\$ 60.2$ million as shown in the charts below.

The projected balance of $\$ 60.2$ million is a positive indicator of continued long-term fiscal sustainability through the period projected and provides an additional contingency reserve that can be utilized if revenue backfill is needed beyond the 25-year projection period, or in the event that rebuild activity, or other factors, varies significantly from current projections at any point in the future.



## Building Safety and Wastewater Services (BSW) (Fund 2030)

The Town is currently leasing a 2018 Chevy Colorado for use within the BSW department. The monthly payments have been included in the adopted budget through the end of the lease term, which is set to expire in February 2023. After review of the lease agreement, the Town has the option to purchase the vehicle at the end of the lease term based on the reduced book value at lease termination, which is estimated to be approximately $\$ 5,700$. The vehicle is recommended by BSW staff to be purchased at the end of the lease term. The funds for this purchase are proposed to be reallocated from savings realized in the current BSW Fund 2030 improvements account. As such, this purchase will not result in any additional fund financial impacts.

All other revenues and expenditures relating to the Building Safety and Wastewater Services fund are within budgeted expectations for the first seven months of the fiscal year. A detailed budget performance report is attached for review.

## Animal Control Services (Fund 2070)

All revenues and expenditures relating to the Animal Control fund are within budgeted expectations for the first seven months of the fiscal year. A detailed budget performance report is attached for review.

## Camp Fire Recovery (Fund 2090)

All revenues and expenditures relating to the Camp Fire Recovery Fund are within budgeted expectations for the first seven months of the fiscal year. Town staff continues to work closely with FEMA, CalOES, and insurance to recover reimbursement for infrastructure project costs related to the 2018 Camp Fire on a timely basis. A detailed budget performance report is attached for review.

## COVID-19 (Fund 2095)

The originally adopted budget included $\$ 1,359,500$ of approved expenditures for FY 2022-23 and projected an ending fund balance of $\$ 1,224,280$ as of June 30, 2023.

During Town Council meetings held through November 7, 2022, Council approved \$822,601 of total additional expenditures funded through the use of the American Rescue Plan Act (ARPA) funds. The additional expenditures included $\$ 418,361$ toward the restoration of dispatch services
project (CIP \#7324), \$90,000 toward the Category 4 Tree Removal program (CIP \#7312), $\$ 259,000$ toward facility repairs to Town Hall, and $\$ 55,240$ toward facility repairs to Fire Station 81.

The amended budget includes $\$ 2,182,101$ of approved expenditures for FY 2022-23 and currently projects an ending fund balance of $\$ 401,679$ as of June 30, 2023.

All revenues and expenditures relating to the COVID-19 fund are within revised budgeted expectations for the first seven months of the fiscal year. A detailed budget performance report is attached for review.

## Capital Improvement Fund (2100)

- \$0 Net Impact: Additional funds in the amount of \$350,000 have been identified as needed towards the completion of the Downtown Sewer Environmental Survey (CIP/DR Project \#9394). The original budget estimate included in the CIP/DR plan for FY 2022-23 was $\$ 303,782$, which was budgeted to be funded through the use of California State Water Board Financial Assistance funds. The additional $\$ 350,000$ budget amendment is proposed to be funded through additional use of State Water Board Financial Assistance funds available.
- All other revenues and expenditures relating to the Capital Improvement fund are within budgeted expectations for the first seven months of the fiscal year. Revenues are likely to be realized later in the fiscal year as reimbursement requests are completed for costs incurred during the fiscal year. A detailed budget performance report is attached for review.

Significant expenditures for the first seven months of the fiscal year include:

|  | 9385 Paradise Gap Closure Project: | \$ | 807,496 |
| :---: | :---: | :---: | :---: |
| $\bigcirc$ | 9377 Almond Multi-Modal Improvements: | \$ | 796,562 |
| $\bigcirc$ | 9394 Downtown Sewer Environmental Survey: | \$ | 495,527 |
| $\bigcirc$ | 9418 Stearns Road Culvert Replacement | \$ | 197,919 |
| $\bigcirc$ | 9417 CDBG Sidewalk Improvements 2022 | \$ | 165,671 |
| $\bigcirc$ | 9389 Pentz Pathway Phase II Project | \$ | 101,163 |
|  | 9420 Interim Safety Striping 2022 | \$ | 95,098 |
|  | 9391 Oliver Curve Pathway Project | \$ | 62,536 |
|  | 9390 Skyway-Neal Bike-Ped Project | \$ | 59,421 |

## Disaster Recovery Fund (2105)

- \$0 Net Impact: Additional funds in the amount of $\$ 150,000$ and $\$ 37,000$ have been identified as needed towards the completion of the On-System Hardscape Replacement (CIP/DR Project \#7302) and On-System Culvert Replacement (CIP/DR Project \#7301) projects, respectively. The original budget estimate included in the CIP/DR plan for FY 2022-23 was $\$ 138,875$ for the On-System Hardscape Replacement project and \$139,483 for the On-System Culvert Replacement project. Both projects were budgeted to be funded through the use of Federal Emergency Relief Program (88.53\%) and CDBG-DR $(11.47 \%)$ funds. The additional $\$ 187,000$ budget amendment is proposed to be funded through additional use of additional Federal Emergency Relief Program and CDBR-DR funds available.

All other revenues and expenditures relating to the Disaster Recovery fund are within budgeted expectations for the first seven months of the fiscal year. Revenues are likely to be realized later
in the fiscal year as reimbursement requests are completed for costs incurred during the fiscal year. A detailed budget performance report is attached for review.

Significant expenditures for the first seven months of the fiscal year include:

| $\circ$ | 7303 On System Road Rehabilitation: | \$5,148,376 |
| :--- | :--- | :--- |
| $\circ$ | 7106 Portable and Mobile Police Radios | $\$ 718,944$ |
| $\circ$ | 7314 Early Warning System | $\$ 573,188$ |
| $\circ$ | 7324 Restoration of Dispatch Services: | $\$ 216,486$ |
| $\circ$ | 7320 SWRCB Septic Grant | $\$ 7158,964$ |
| $\circ$ | 7301 On-System Culvert Replacement | $\$$ |
| $\circ$ | 139,483 |  |
| $\circ$ | 7302 On-System Hardscape Replacement | $\$ 738,875$ |
| $\circ$ | 7312 Category 4 Tree Removal: | $\$ 119,261$ |
| $\circ$ | 7309 Transportation Master Plan | $\$$ |

## Gas Tax / Street Maintenance (Fund 2120)

- \$64,000 Increase: Public works staff has identified the need for a net \$64,000 in additional operating, repair, and maintenance supplies to maintain the Town's streets for the remainder of the fiscal year. This total includes $\$ 30,000$ for vegetation management, $\$ 25,000$ for traffic signals (of which $\$ 10,000$ is expected to reimbursed through insurance claims for damages incurred), $\$ 15,500$ in additional rental equipment ( $100 \%$ of which is expected to be reimbursed through the Town's 2018 Camp Fire insurance claim), \$10,000 for signs, $\$ 5,000$ for drainage, and $\$ 4,000$ for essential personal protective equipment to ensure safety of the crew performing street related work. The additional expenditures are proposed to be funded through Gas Tax reserves. As such, these expenditures will not result in any additional General Fund financial impacts.
- \$5,700 Increase: The Town is currently leasing a 2018 Chevy Colorado for use within the Public Works department, funded through Gas Tax funds. The monthly payments have been included in the adopted budget through the end of the lease term, which is set to expire in February 2023. After review of the lease agreement, the Town has the option to purchase the vehicle at the end of the lease term based on the reduced book value at lease termination, which is estimated to be approximately $\$ 5,700$. The vehicle is recommended by Public Works staff to be purchased at the end of the lease term. The vehicle purchase is proposed to be funded through Gas Tax reserves. As such, this purchase will not result in any additional General Fund financial impacts.
- All other revenues and expenditures relating to the Gas Tax fund are within budgeted expectations for the first seven months of the fiscal year. A detailed budget performance report is attached for review.


## Business and Housing Services (BHS) (Fund 2160)

BHS staff has identified the need for a full-time temporary position to assist with the increased workload the department has experienced since the 2018 Camp Fire. As the need for this position is currently expected to be temporary in nature, the position is proposed to be filled through a temporary staffing agency. The estimated cost of the position through the remainder of the current fiscal year is estimated to be $\$ 20,000$. The additional cost of the position is expected to be funded through the housing grants that this position would be working on, primarily the Cal HOME program. As such, the addition of this position would not result in any additional General Fund impact.

All other revenues and expenditures relating to the Business and Housing fund are within
budgeted expectations for the first seven months of the fiscal year. A detailed budget performance report is attached for review.

## PGE Settlement Fund (7700)

- Revenues:
- The Town has received $\$ 689,972$ in net interest revenues for the first six months of the fiscal year, which is trending in line with total budgeted expectations of $\$ 1,100,000$ for the full fiscal year. Staff continues to closely monitor revenues as securities mature and funds are reinvested into new investments under this quickly changing interest rate environment.
- Expenditures / Transfers Out:
- \$105,500 Increase: As mentioned above, the total recommended General Fund budget amendments includes $\$ 145,500$ of net additional expenditures, which is offset by $\$ 40,000$ of additional General Fund revenues. This leaves a total of $\$ 105,500$ of additional funding requirements. In order to balance the General Fund budget, an additional transfer from the PG\&E Settlement Fund in the amount of $\$ 105,500$ is recommended.


## Conclusion:

Overall, the Town-wide financial activity for the first seven months of the fiscal year is largely within budgeted expectations. The total impact to the General Fund of the recommended adjustments above is an additional $\$ 145,500$ in expenditures, which is recommended to be offset by additional General Fund revenues in the amount of $\$ 40,000$ and an additional transfer from the PG\&E Settlement Funds in the amount of \$105,500. The amended FY 2022-23 PG\&E fund total transfer amount of $\$ 11,280,797$ and projected PG\&E Settlement Fund balance at the end of the projection period included in the Fiscal Sustainability model ( $\$ 60.2$ million) is still a positive indicator of ongoing fiscal sustainability based on a medium growth scenario. Staff will continue to closely monitor financial activity against budgeted benchmarks and will bring any additional recommendations for budget amendment throughout the remainder of the fiscal year through the regular budget review process.

February 2023 FLSA: Non-Exempt

## ACCOUNTING ANALYST

## DEFINITION

Under general direction, organizes, analyzes and monitors disaster recovery projects to facilitate reimbursement of funds within the Town of Paradise;; provides grants administration support; develops, summarizes, and maintains administrative and fiscal records; coordinates grants programs to document specifics needed for reimbursement, special projects, and studies and performs related administrative functions; assists in reconciliation of general ledger accounts; assists in preparation of the Town's annual budgets; prepares year-end audit reports and schedules; fosters cooperative working relationships among Town departments and acts as liaison with various community, public, and regulatory agencies; and performs related work as required.

## SUPERVISION RECEIVED AND EXERCISED

Receives general direction from the Finance Director/Town Treasurer. Exercises no supervision over staff.

## CLASS CHARACTERISTICS

This is a professional classification responsible for activities related to the Town's finances with a special emphasis in supporting disaster recovery projects. Responsibilities include budget development, grant funding administration and reporting, expenditure monitoring, and grant funds disbursement. Incumbents serve as a resource for project analyses, evaluation, and reporting. Performance of the work requires the use of considerable independence, initiative, and discretion within established guidelines.

## EXAMPLES OF TYPICAL JOB FUNCTIONS (Illustrative Only)

Management reserves the right to add, modify, change, or rescind the work assignments of different positions and to make reasonable accommodations so that qualified employees can perform the essential functions of the job.
> Provides responsible professional and technical assistance in the administration and implementation of the Town's financial, auditing, and accounting programs.
> Coordinates reimbursement for disaster recovery projects, reviews, evaluates, and assesses methods and procedures and administrative support systems to ensure compliance with funding.
$>$ Coordinates and performs work in administration, and reporting, including evaluating funding opportunities relative to Town policies and vision, preparing grant proposals, assisting in preparing budgets, and interpreting funding agency regulations and requirements.
> Tracks Capital Improvement Program expenditures and allocates funds to the appropriate Capital Improvement Project account.
> Maintains and monitors the Town's grant funds and ensures compliance with rules and regulations governing the use of each grant.
> Monitors expenditures, revenues, and budget allocations to determine the Town's financial status and prepares custom reports, graphs, and schedules as needed.
> Analyzes, reviews, and ensures compliance of proposals and grant budgets with policies, regulations, funding agency requirements, and accounting protocols and procedures; facilitates documentation requirements.
> Develops and maintains specialized databases and systems for recording and tracking grant proposals, awards, and related statistical information.
> Collects, compiles, and analyzes information from various sources on a variety of specialized topics to related projects; prepares comprehensive technical records and reports to present and interpret data, identifies alternatives, and makes and justifies recommendations.
$>$ Advises and guides staff on the application of grant funding policies, regulations, and procedures.
$>$ Serves as a liaison with employees and grant funding organizations pertaining to grant reimbursement submissions and future funding; provides information and assistance to the departments regarding research of funding opportunities; receives and responds to questions relating to assigned area of responsibility.
> Maintains accurate records and files; develops storage of records and retention schedules.
$>$ Attends meetings, conferences, workshops, and training sessions and reviews publications and materials to remain current on grant funding policies, regulations, procedures, and new developments; prepares reports of changes to management; provides recommendations on implementation and impact of changes.
> Negotiates project contracts and agreements; determines needs and requirements for contractual services; ensures legal and contractual provisions are included to protect the Town's interests; ensures contractor compliance with contractual provisions.
> Serves as a liaison for the division with other Town departments, divisions, and outside agencies; attends meetings in various locations; provides staff support to the Town, committees, and task forces; participates in community events and workshops that provide public information regarding divisional projects and services.
> Confers with Town departments, elected officials, and outside agencies to define and develop strategies to achieve Town objectives.
> Attends and participates in professional group meetings; stays abreast of new trends and innovations in disaster recovery.
> Monitors changes in laws, regulations, and technology that may affect Town or divisional operations; implements policy and procedural changes as required.
$>$ Performs other related duties as assigned.

## QUALIFICATIONS

## Knowledge of:

> Modern principles, practices, and methods of public and governmental accounting and financing, including program budgeting and auditing and their application to municipal operations.
> Organizational and management practices as applied to the analysis and evaluation of projects, policies, procedures, and operational needs, principles and practices of public agency administration.
> Principles, practices, and procedures of budgeting, contract administration, and grant administration.
> Project and/or program management, analytical processes, and report preparation techniques.
$>$ Research and reporting methods, techniques, and procedures.
$>$ Sources of information related to a broad range of municipal programs, services, and administration.
A Applicable Federal, State, and local laws, regulatory codes ordinances, and procedures relevant to assigned area of responsibility.
> Record keeping principles and procedures.
$>$ Techniques for effectively representing the Town in contacts with governmental agencies, community groups, and various business, professional, educational, regulatory, and legislative organizations.
$>$ Administrative principles and practices, including goal setting, project development, implementation, and evaluation.
> Methods and techniques for the development of presentations, business correspondence, and information distribution.
> Techniques for providing a high level of customer service by effectively dealing with the public, vendors, contractors, and Town staff.
$>$ The structure and content of the English language, including the meaning and spelling of words, rules of composition, and grammar.
$>$ Modern equipment and communication tools used for business functions and program, project, and task coordination.
$>$ Computers and software programs (e.g., Microsoft software packages) to conduct, compile, and/or generate documentation.

## Ability to:

$>$ Assist in the development of goals, objectives, policies, procedures, and work standards for grant administration.
$>$ Coordinate and oversee departmental administrative, budgeting and fiscal reporting activities as they relate to projects funded by grants.
$>$ Interpret, apply, and explain complex Federal, State, and local laws, codes, regulations, and departmental policies and procedures.
$>$ Analyze, interpret, summarize and present administrative and technical information and data in an effective manner.
$>$ Prepare clear and effective financial, statistical, narrative, informational, and educational reports, correspondence, procedures, and other written material.
$>$ Make accurate arithmetic, financial and statistical computations.
$>$ Analyze situations and identify pertinent problems/issues, conduct research to gather relevant information, evaluate alternatives, make sound recommendations, and prepare effective technical staff reports.
$>$ Organize and prioritize a variety of projects and multiple tasks in an effective and timely manner; organize own work, setting priorities, and meeting critical time deadlines.
$>$ Effectively administer special projects with contractual agreements and ensure compliance with stipulations.
$>$ Conduct effective negotiations and effectively represent the Town and the assigned division in meetings with governmental agencies, contractors, vendors, and various businesses, professional, regulatory, and legislative organizations.
$>$ Learn and understand the organization and operation of the Town and of outside agencies as necessary to assume assigned responsibilities.
$>$ Effectively use computer systems, software applications, and modern business equipment to perform a variety of work tasks.
$>$ Communicate clearly and concisely, both orally and in writing, using appropriate English grammar and syntax.
$>$ Use tact, initiative, prudence, and independent judgment within general policy, procedural, and legal guidelines.
$>$ Establish, maintain, and foster positive and effective working relationships with those contacted in the course of work.

## Education and Experience:

Any combination of training and experience that would provide the required knowledge, skills, and abilities is qualifying. A typical way to obtain the required qualifications would be:

Equivalent to a bachelor's degree in in public administration, business administration, or a closely related field and three (3) years of municipal government experience including grant development and administration.

## Licenses and Certifications:

> Possession of, or ability to obtain, a valid California Driver's License by time of appointment and a satisfactory driving record.

## PHYSICAL DEMANDS

The standard office position requires an employee to access their work location, attend meetings, use computerized workstations, and lift paperwork and light-weight equipment or resources (less than 20 pounds). Typically, an employee will need to walk, stand, sit, use a keyboard, see, hear, bend, lift, and twist. The employee obtains information from oral instructions, conversations, written reports, email, the Internet, and professional publications, and will process and analyze the information obtained. The employee will provide information orally or in writing, and work on numerous concurrent projects and tasks under deadlines. Typically, an employee will need to mentally process and analyze complex information, compose complex responses, interact with others, and present information and reports.

## ENVIRONMENTAL CONDITIONS

Employees work in an office environment with moderate noise levels, controlled temperature conditions, and no direct exposure to hazardous physical substances.

February 2023
FLSA: Hourly

## ENGINEERING INTERN (400 HOURS - PART-TIME, TEMPORARY)

## DEFINITION

Under the direction of Engineering staff, perform a variety of engineering field related tasks.

## SUPERVISION RECEIVED AND EXERCISED

Receives general supervision from engineering staff including Capital Project Managers and Engineering Division Manager. Exercises no direct supervision over staff.

## CLASS CHARACTERISTICS

This is an internship level classification responsible for assigned activities related to the Town's Public Works Engineering Division. Responsibilities include the preparation of an update to the Town's Engineering \& Traffic Surveys, including data collection and analysis. This position will provide time shadowing project managers, visiting job sites, and gaining meaningful experience with consultants. The ideal candidates will have some experience with CAD/GIS, computer skills using Microsoft Suites, ability to research online, and great oral and written communication skills.

## EXAMPLES OF TYPICAL JOB FUNCTIONS (Illustrative Only)

Management reserves the right to add, modify, change, or rescind the work assignments of different positions and to make reasonable accommodations so that qualified employees can perform the essential functions of the job.

- Assists supervisor and department staff members with a variety of support duties as assigned
- Assists in researching, compiling, and analyzing data
- Prepares and/or processes routine reports, correspondence, and records
- Performs computer data entry to record and retrieve department information
- Interacts with interdepartmental staff and other agency representatives in obtaining or providing data
- Performs routine clerical tasks as needed, including copying and filing documents, collating materials, etc.
- Performs routine field reconnaissance and inspections as needed
- Picks up and delivers documents, materials, supplies, etc., as needed
- Prepare plans and drawings as directed by supervisor and department staff members
- Performs related duties as assigned


## QUALIFICATIONS

## Knowledge of:

Business English, spelling and grammar; modern office practices, procedures and equipment; personal computer operations; AutoCAD; Microsoft Office Suite, specifically Word and Excel; basic math principles; effective public relations/customer service principles, practices and techniques.


#### Abstract

Ability to: Utilize general office equipment such as telephone, fax, printers, copiers, and computers; learn and apply City policies, procedures, rules and regulations; conduct basic research, research, compile and analyze data and prepare accurate reports and correspondence; reason logically, draw valid conclusions and make appropriate recommendations; maintain work effectiveness and meet deadlines with frequent changes in workload and the priority of assignments; understand and carry out oral and written instructions; communicate clearly and concisely, orally and in writing; establish and maintain cooperative working relationships with those contacted in the course of work; provide quality customer service.


## Education and Experience:

Any combination of training and experience that would provide the required knowledge, skills, and abilities is qualifying. A typical way to obtain the required qualifications would be:

Preferred: Must be currently enrolled in an Undergraduate Civil Engineering Program (Sophomore or Junior level).

Accepted: Must be currently enrolled in a collegiate program with a focus in Civil Engineering courses

## Licenses and Certifications:

Must possess a valid US driver's license upon date of application. Must obtain California driver's license following hire date per California DMV regulations.

## PHYSICAL DEMANDS

Must possess mobility to work in a standard office setting and use standard office equipment, including a computer, to inspect Town development sites, including traversing uneven terrain, climbing ladders, stairs, and other temporary or construction access points, to operate a motor vehicle, and to visit various Town and meeting sites; vision to read printed materials and a computer screen; and hearing and speech to communicate in person, before groups, and over the telephone. This is primarily a sedentary office classification although standing and walking between work areas and to conduct inspections may be required. Finger dexterity is needed to access, enter, and retrieve data using a computer keyboard or calculator and to operate standard office equipment. Positions in this classification occasionally bend, stoop, kneel, reach, push, and pull drawers open and closed to retrieve and file information. Employee must possess the ability to lift, carry, push, and pull materials and objects weighing up to 25 pounds.

## ENVIRONMENTAL CONDITIONS

- Office environment with moderate noise levels, controlled temperature conditions and no direct exposure to hazardous physical substances.
- Employees may work in the field and occasionally be exposed to loud noise levels, cold and hot temperatures, inclement weather conditions, road hazards, vibration, mechanical and/or electrical hazards, and hazardous physical substances and fumes.
- Employees may interact with upset staff and/or public and private representatives in interpreting and enforcing departmental policies and procedures.













## TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023

| Account Number | Account Description | FY 2021-22 Unaudited Actual Amount | FY 2022-23 Adopted Budget | FY 2022-23 <br> Amended Budget | FY 2022-23 <br> Actuals to Date | FY 2022-23 <br> Proposed Amendments | $\begin{gathered} \text { FY 2022-23 } \\ \text { Proposed } \\ \text { Amended Budget } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Fund: 1010 - General Fund |  |  |  |  |  |  |  |
| REVENUES |  |  |  |  |  |  |  |
| Department: 00 - Non Department Activity |  |  |  |  |  |  |  |
| Program: 0000 - Non Program Activity |  |  |  |  |  |  |  |
| 3110.311 | Property Tax Current Secured | 2,368,023 | 2,340,000 | 2,340,000 | 1,680,279 | - | 2,340,000 |
| 3110.312 | Property Tax Current Unsecured | 107,575 | 116,500 | 116,500 | 134,420 | - | 116,500 |
| 3110.315 | Property Tax Prior Secured/Unsecured | 3,254 | 5,000 | 5,000 | 2,461 | - | 5,000 |
| 3110.320 | Property Tax General Supplemental | 43,459 | 40,000 | 40,000 | 21,473 | - | 40,000 |
| 3130.325 | General Sales and Use Tax Sales and Use Tax | 1,198,929 | 1,000,000 | 1,000,000 | 304,142 | - | 1,000,000 |
| 3167.330 | Real Property Transfer Tax Real Property Transfer Tax | 101,168 | 85,000 | 85,000 | 48,966 | - | 85,000 |
| 3182.335 | Franchise Taxes Franchise Taxes | 386,817 | 347,000 | 347,000 | 79,634 | - | 347,000 |
| 3185.340 | Transient Occupancy Tax Transient Occupancy Tax | 225,722 | 200,000 | 200,000 | 59,254 | - | 200,000 |
| 3210.110 | Business Licenses and Permits Business Regulation | 9,133 | 7,500 | 7,500 | 6,647 | - | 7,500 |
| 3210.120 | Business Licenses and Permits Bingo Regulation | 42 | - | - | - | - | - |
| 3215.100 | DOJ/FBI Fees Fingerprinting/Processing | $(2,271)$ | - | - | $(1,842)$ | - | - |
| 3351.001 | Property Tax Homeowners Apportionment | 22,404 | 15,000 | 15,000 | 3,873 | - | 15,000 |
| 3356.001 | State Motor Vehicle In Lieu Motor Vehicle In Lieu Tax | 1,067,604 | 1,097,000 | 1,097,000 | 659,794 | - | 1,097,000 |
| 3410.104 | Administrative Services Returned Check Processing | 307 | 150 | 150 | 102 | - | 150 |
| 3410.107 | Administrative Services Electronic Audio Reproduction | 12 | - | - | - | - | - |
| 3410.112 | Administrative Services Printed Material Production/Sale | - | - | - | 0 | - | - |
| 3410.113 | Administrative Services Document Copying | 138 | 50 | 50 | 8 | - | 50 |
| 3410.114 | Administrative Services Document Certification | 180 | 150 | 150 | 165 | - | 150 |
| 3610.100 | Interest Revenue Investments | 5,150 | 15,000 | 15,000 | 4,085 | - | 15,000 |
| 3630.200 | Rents and Royalties Billboard Rents and Leases | 440 | 440 | 440 | 240 | - | 440 |
| 3901.100 | Refunds and Reimbursements Miscellaneous | 25,740 | 2,000 | 2,000 | 1,051 | - | 2,000 |
| 3901.145 | Refunds and Reimbursements Insurance Proceeds | 1,071,088 | - | - | - | - | - |
| 3902.100 | Miscellaneous Revenue General | 14,192 | 4,000 | 5,500 | 1,950 | - | 5,500 |
| 3902.110 | Miscellaneous Revenue Cash Over and Short | 78 | - | - | 5 | - | - |
| 3910.030 | Transfers In From Development Services Fund | 262,686 | 341,836 | 341,836 | - | - | 341,836 |
| 3910.070 | Transfers In From Animal Control | 54,357 | 66,344 | 66,344 | - | - | 66,344 |
| 3910.090 | Transfers In From Camp Fire Recovery | 60,264 | 94,749 | 94,749 | - | - | 94,749 |
| 3910.095 | Transfers In From COVID-19 Fund | - | 102,000 | 361,000 | - | - | 361,000 |
| 3910.110 | Transfers In From Local Transportation Fund | 5,091 | 7,568 | 7,568 | - | - | 7,568 |

## TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023

| Account Number | Account Description | FY 2021-22 Unaudited Actual Amount | FY 2022-23 <br> Adopted Budget | $\begin{gathered} \text { FY 2022-23 } \\ \text { Amended Budget } \end{gathered}$ | FY 2022-23 Actuals to Date | FY 2022-23 <br> Proposed Amendments | $\begin{gathered} \text { FY 2022-23 } \\ \text { Proposed } \\ \text { Amended Budget } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3910.120 | Transfers In From State Gas Tax Fund | 353,824 | 225,147 | 225,147 | - | - | 225,147 |
| 3910.130 | Transfers In From State Water Board Prop 1 | 361 | - | - | - | - |  |
| 3910.138 | Transfers In From USDA Fund | - | 70,500 | 104,000 | - | - | 104,000 |
| 3910.140 | Transfers In From Traffic Safety Fund | 2,250 | 2,250 | 2,250 | - | - | 2,250 |
| 3910.160 | Transfers In From BHS Development Svcs Fund | 76,274 | 73,096 | 73,096 | - | - | 73,096 |
| 3910.215 | Transfers In From Aband Vehicle Abate Fund | 26,858 | 16,500 | 16,500 | 2,159 | - | 16,500 |
| 3910.628 | Transfers In From Gen Plan Fee | - | 800,000 | 800,000 | - | - | 800,000 |
| 3910.650 | Transfers In From Successor Agency to RDA NH | 16,200 | 16,200 | 16,200 | - | - | 16,200 |
| 3910.700 | Transfers In From PG\&E Settlement Fund | 5,581,881 | 10,985,377 | 11,175,297 | 3,695,973 | 105,500 | 11,280,797 |
|  | Program Total: 0000 - Non Program Activity | 13,089,230 | 18,076,357 | 18,560,277 | 6,704,838 | 105,500 | 18,665,777 |
|  | Department Total: 00 - Non Department Activity | 13,089,230 | 18,076,357 | 18,560,277 | 6,704,838 | 105,500 | 18,665,777 |
| Department: 25 - Fin |  |  |  |  |  |  |  |
| Program: 4420 - M | ure C/V TUT |  |  |  |  |  |  |
| 3130.326 | General Sales and Use Tax Transactions and Use Tax (TUT) | 1,299,723 | 1,200,000 | 1,200,000 | 384,685 | - | 1,200,000 |
|  | Program Total: 4420 - Measure C/V TUT | 1,299,723 | 1,200,000 | 1,200,000 | 384,685 | - | 1,200,000 |
| Program: 5005 - Rental Properties |  |  |  |  |  |  |  |
| 3901.100 | Refunds and Reimbursements Miscellaneous | 528 | 400 | 400 | 284 | - | 400 |
|  | Program Total: 5005 - Rental Properties | 528 | 400 | 400 | 284 | - | 400 |
|  | Department Total: 25 - Finance | 1,300,250 | 1,200,400 | 1,200,400 | 384,969 | - | 1,200,400 |

## TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023

| Account Number | Account Description | FY 2021-22 Unaudited Actual Amount | FY 2022-23 <br> Adopted Budget | FY 2022-23 <br> Amended Budget | FY 2022-23 <br> Actuals to Date | FY 2022-23 <br> Proposed Amendments | FY 2022-23 Proposed Amended Budget |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Department: 30-Police |  |  |  |  |  |  |  |
| Program: 0000 - Non Program Activity |  |  |  |  |  |  |  |
| 3320.100 | Federal Revenue - Other Refunds and Reimbursements | - | 2,000 | 2,000 | - | - | 2,000 |
| 3345.004 | State Revenues - Other POST Reimbursements | 858 | 5,000 | 5,000 | 2,474 | - | 5,000 |
| 3345.100 | State Revenues - Other Refunds \& Reimbursements | 52 | 250 | 250 | - | - | 250 |
| 3380.100 | Local Government Revenue Fines and Forfeitures | 24,468 | 15,000 | 15,000 | 10,464 | - | 15,000 |
| 3380.106 | Local Government Revenue Administrative Citations Police | 100 | 400 | 400 | - | - | 400 |
| 3380.112 | Local Government Revenue Property Room Proceeds | - | 400 | 400 | - | - | 400 |
| 3421.100 | Police Vehicle Repossession | - | 100 | 100 | 27 | - | 100 |
| 3421.105 | Police Cite Sign Off / VIN Verification | 305 | 500 | 500 | 23 | - | 500 |
| 3421.110 | Police DUI Accident \& Arrest Processing | 1,057 | 500 | 500 | 242 | - | 500 |
| 3421.111 | Police Vehicle Impound Fee | 1,446 | 500 | 500 | 482 | - | 500 |
| 3421.115 | Police Police Report (Copy) | 18 | 10 | 10 | 27 | - | 10 |
| 3421.120 | Police Fingerprint Processing | 4,712 | 2,500 | 2,500 | 3,378 | - | 2,500 |
| 3421.122 | Police Visa/Clearance Letter | 31 | 31 | 31 | 31 | - | 31 |
| 3421.130 | Police Reproduce/Sale of Tapes \& Photos | 170 | 50 | 50 | 113 | - | 50 |
| 3421.140 | Police Alarm System Registration | 1,531 | 750 | 750 | 214 | - | 750 |
| 3421.141 | Police False Alarm Response | 2,808 | 500 | 500 | 119 | - | 500 |
| 3421.180 | Police Special Services | - | 250 | 250 | 275 | - | 250 |
| 3421.187 | Police Subpoena Duces Tecum | 63 | - | - | 47 | - | - |
| 3901.100 | Refunds and Reimbursements Miscellaneous | 40,348 | 1,500 | 1,500 | 43,435 | - | 1,500 |
| 3901.140 | Refunds and Reimbursements Negligence Cost Recovery Fees | 989 | - | - | - | - | - |
| 3902.100 | Miscellaneous Revenue General | 288 | 100 | 100 | 330 | - | 100 |
| 3910.010 | Transfers In From General Fund | 3,069 | 3,070 | 3,070 | - | - | 3,070 |
| 3910.138 | Transfers In From USDA Fund | 3,148 | 3,148 | 3,148 | - | - | 3,148 |
|  | Program Total: 0000 - Non Program Activity | 85,461 | 36,559 | 36,559 | 61,684 | - | 36,559 |
|  | Department Total: 30 - Police | 85,461 | 36,559 | 36,559 | 61,684 | - | 36,559 |
| Department: 35 - Fire |  |  |  |  |  |  |  |
| Program: 0000 - Non Program Activity |  |  |  |  |  |  |  |
| 3345.100 | State Revenues - Other Refunds \& Reimbursements | 302,196 | 75,000 | 75,000 | 122,813 | - | 75,000 |
| 3380.103 | Local Government Revenue Fines and Citations Fire | 36,650 | - | - | (500) | - | - |
| 3422.304 | Fire Fuel Reduction Burn Permit | 6,980 | 10,000 | 10,000 | 3,466 | - | 10,000 |
| 3422.315 | Fire Residential Burning Regulation | 13,393 | 10,000 | 10,000 | 4,377 | - | 10,000 |
| 3422.338 | Fire Fire Flow/Hydrant Location | 22 | - | - | 200 | - | - |

## TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023

| Account Number | Account Description | FY 2021-22 Unaudited Actual Amount | FY 2022-23 <br> Adopted Budget | FY 2022-23 Amended Budget | FY 2022-23 <br> Actuals to Date |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 3901.100 | Refunds and Reimbursements Miscellaneous | - | - | - | 52,500 |
| 3902.100 | Miscellaneous Revenue General | 1,706 | - | - | - |
| 3910.135 | Transfers In From FEMA Reimb Fund SAFER | 805,372 | - | - | - |
|  | Program Total: 0000 - Non Program Activity | 1,166,319 | 95,000 | 95,000 | 182,855 |
|  | Department Total: 35 - Fire | 1,166,319 | 95,000 | 95,000 | 182,855 |
| $\begin{array}{cc}\text { Department: } & \text { 40-Community Development } \\ \text { Program: } & \mathbf{4 7 2 0} \text { - CDD Planning }\end{array}$ |  |  |  |  |  |
|  |  |  |  |  |  |
| 3380.101 | Local Government Revenue Fines and Citations Comm Develop | 12,400 | 8,000 | 8,000 | - |
| 3400.101 | CDD Planning Appeals Review | 104 | - | - | - |
| 3400.104 | CDD Planning Tentative Parcel Map | 2,074 | 1,754 | 1,754 | - |
| 3400.109 | CDD Planning Street Address Change Review | - | 176 | 176 | - |
| 3400.111 | CDD Planning Landscape Plan | 849 | 1,136 | 1,136 | 849 |
| 3400.130 | CDD Planning General Plan Amend and Rezoning | - | 2,907 | 2,907 | - |
| 3400.139 | CDD Planning Research on Request | 94 | 94 | 94 | - |
| 3400.170 | CDD Planning Use Permit Class A | 2,828 | 2,121 | 2,121 | 2,828 |
| 3400.171 | CDD Planning Use Permit Class B | 3,759 | - | - | - |
| 3400.173 | CDD Planning Temporary Use Permit | 3,991 | 3,000 | 3,000 | 2,249 |
| 3400.174 | CDD Planning Administrative Permit | 16,682 | 12,000 | 12,000 | 12,379 |
| 3400.176 | CDD Planning Home Occupation Permit | - | - | - | 263 |
| 3400.178 | CDD Planning Site Plan/Use Permit Mod Class B | - | - | - | 652 |
| 3400.184 | CDD Planning Site Plan Review Class A | 660 | 660 | 660 | 1,320 |
| 3400.185 | CDD Planning Site Plan Review Class B | - | - | - | 1,002 |
| 3400.200 | CDD Planning Tree Felling Permit | 49 | - | - | - |
| 3400.307 | CDD Planning Design Review Application | 1,581 | 1,756 | 1,756 | 1,976 |
| 3901.100 | Refunds and Reimbursements Miscellaneous | - | - | - | 435 |
| 3910.628 | Transfers In From Gen Plan Fee | 201,178 | - | - | 24,962 |
|  | Program Total: 4720 - CDD Planning | 246,250 | 33,604 | 33,604 | 48,914 |


| FY 2022-23 | FY 2022-23 |
| :---: | :---: |
| Proposed | Proposed |
| Amendments | Amended Budget |


| - | 95,000 |
| :---: | :---: |
| - | 95,000 |

Department: 40 - Community Development

## TOWN OF PARADISE <br> Budget Worksheet Report as of January 30, 2023

| Account Number | Account Description | FY 2021-22 Unaudited Actual Amount | FY 2022-23 <br> Adopted Budget | FY 2022-23 <br> Amended Budget | FY 2022-23 Actuals to Date | FY 2022-23 <br> Proposed Amendments | $\begin{gathered} \text { FY 2022-23 } \\ \text { Proposed } \\ \text { Amended Budget } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Program: 4780 - CDD - Waste Management |  |  |  |  |  |  |  |
| 3182.335 | Franchise Taxes Franchise Taxes | 15,184 | 15,500 | 15,500 | 8,892 | - | 15,500 |
| 3380.104 | Local Government Revenue Fines and Citations Waste Mgmt | 100 | - | - | - | - | - |
| Program Total: 4780 - CDD - Waste Management |  | 15,284 | 15,500 | 15,500 | 8,892 | - | 15,500 |
| Department Total: 40-Community Development |  | 261,534 | 49,104 | 49,104 | 57,807 | - | 49,104 |
| Department: 45 -Public Works |  |  |  |  |  |  |  |
| Program: 4740 - Public Works - Engineering |  |  |  |  |  |  |  |
| 3402.201 | PW Engineering Final Parcel Map | - | - | - | 2,592 | - | - |
| 3402.223 | PW Engineering Engineering Site Plan | 1,037 | 1,000 | 1,000 | 518 | - | 1,000 |
| 3402.224 | PW Engineering Grading Check/Inspection | 14,229 | 7,500 | 7,500 | 2,761 | - | 7,500 |
| 3402.226 | PW Engineering Cert of Correction with Hearing | 2,333 | - | - | 1,462 | - | - |
| 3402.227 | PW Engineering Lot Merger Review | 4,666 | 7,500 | 7,500 | 3,629 | - | 7,500 |
| 3402.228 | PW Engineering Lot Line Adjustment | 4,536 | 4,000 | 4,000 | 3,629 | - | 4,000 |
| 3402.230 | PW Engineering Engineer Drain Plan/Calc Review | 18,534 | 20,000 | 20,000 | 415 | - | 20,000 |
| 3402.232 | PW Engineering Erosion Control Plan Review | 389 | - | - | - | - | - |
| 3402.250 | PW Engineering Oversized Vehicle Regulation | 4,360 | 5,000 | 5,000 | 2,354 | - | 5,000 |
| 3402.270 | PW Engineering Encroachment Permit Fees | 293,133 | 250,000 | 272,950 | 245,779 | 40,000 | 312,950 |
|  | Program Total: 4740 - Public Works - Engineering | 343,218 | 295,000 | 317,950 | 263,139 | 40,000 | 357,950 |
| Program: 4745 - Paradise Community Park |  |  |  |  |  |  |  |
| 3470.251 | Parks \& Recreation Space Rental | 1,730 | 1,000 | 1,000 | - | - | 1,000 |
| Program Total: 4745 - Paradise Community Park |  | 1,730 | 1,000 | 1,000 | - | - | 1,000 |
| Department Total: 45 - Public Works |  | 344,948 | 296,000 | 318,950 | 263,139 | 40,000 | 358,950 |
|  | REVENUES Total | 16,247,741 | 19,753,420 | 20,260,290 | 7,655,292 | 145,500 | 20,405,790 |
| EXPENSES |  |  |  |  |  |  |  |
| Department: 00 - Non Department Activity |  |  |  |  |  |  |  |
| Program: 0000 - Non Program Activity |  |  |  |  |  |  |  |
| 5213.100 | Professional/Contract Services General | 124,824 | 100,000 | 100,000 | 28,319 | - | 100,000 |
| 5225 | Bank Fees and Charges | 4,638 | 3,500 | 3,500 | 1,640 | - | 3,500 |
| 5501 | Debt Service Payment - Principal | 484,425 | 469,658 | 469,658 | - | - | 469,658 |
| 5502 | Debt Service Payment - Interest | 640,575 | 685,342 | 685,342 | - | - | 685,342 |
| 5910.090 | Transfers Out To Camp Fire 2018 Recovery | - | 373,273 | 373,273 | - | - | 373,273 |
| 5910.105 | Transfers Out To Camp Fire Recovery Projects | 68,812 | 60,000 | 60,000 | - | - | 60,000 |
| 5910.650 | Transfers Out To Successor Agency RDA NH | - | 40,500 | 40,500 | - | - | 40,500 |
| 5910.923 | Transfers Out To TOP Housing Loan Fund | - | 2,500 | 2,500 | - | - | 2,500 |
|  | Program Total: 0000 - Non Program Activity | 1,323,274 | 1,734,773 | 1,734,773 | 29,959 | - | 1,734,773 |
|  | Department Total: 00 - Non Department Activity | 1,323,274 | 1,734,773 | 1,734,773 | 29,959 | - | 1,734,773 |

## TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023

| Account Number | Account Description | FY 2021-22 Unaudited Actual Amount | FY 2022-23 <br> Adopted Budget | FY 2022-23 <br> Amended Budget | FY 2022-23 <br> Actuals to Date | FY 2022-23 <br> Proposed Amendments | $\begin{gathered} \text { FY 2022-23 } \\ \text { Proposed } \\ \text { Amended Budget } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Department: 10 - Legislative |  |  |  |  |  |  |  |
| Program: 4000-Town Council |  |  |  |  |  |  |  |
| 5101 | Salaries - Permanent | 18,000 | 18,000 | 18,000 | 10,500 | - | 18,000 |
| 5107 | Car Allowance/Mileage | 5,501 | 5,400 | 5,400 | 3,150 | - | 5,400 |
| 5111 | Medicare | 339 | 339 | 339 | 198 | - | 339 |
| 5112.102 | GASB 68 - Pension Expense Social Security | 1,451 | 1,451 | 1,451 | 846 | - | 1,451 |
| 5113 | Worker's Compensation | 124 | 160 | 160 | 80 | - | 160 |
| 5115 | Unemployment Compensation | (570) | - | - | - | - | - |
| 5202.100 | Operating Supplies General | 229 | 50 | 50 | 170 | - | 50 |
| 5213.100 | Professional/Contract Services General | 570 | 475 | 475 | - | - | 475 |
| 5219.100 | Printing General | 54 | 100 | 100 | 43 | - | 100 |
| 5220.100 | Employee Development General | 10,267 | 11,625 | 13,125 | 5,136 | - | 13,125 |
| 5223.105 | Meals and Refreshments Emergencies and Meetings | 102 | - | - | - | - | - |
|  | Program Total: 4000 - Town Council | 36,066 | 37,600 | 39,100 | 20,123 | - | 39,100 |
|  | Department Total: 10 - Legislative | 36,066 | 37,600 | 39,100 | 20,123 | - | 39,100 |
| Department: 15 - Town Clerk |  |  |  |  |  |  |  |
| Program: 4100-Town Clerk |  |  |  |  |  |  |  |
| 5101 | Salaries - Permanent | 155,022 | 179,809 | 179,809 | 93,933 | - | 179,809 |
| 5105 | Salaries - Overtime/FLSA | 304 | - | - | - | 360 | 360 |
| 5106.100 | Incentives \& Admin Leave Administrative Leave | 4,529 | 6,870 | 6,870 | - | - | 6,870 |
| 5107 | Car Allowance/Mileage | - | 2,400 | 2,400 | 1,323 | - | 2,400 |
| 5111 | Medicare | 2,207 | 2,742 | 2,742 | 1,383 | - | 2,742 |
| 5112.101 | GASB 68 - Pension Expense PERS | 33,961 | 37,301 | 37,301 | 28,987 | - | 37,301 |
| 5113 | Worker's Compensation | 1,124 | 935 | 935 | 465 | - | 935 |
| 5114.101 | Health Insurance Medical | 15,636 | 19,662 | 19,662 | 10,165 | - | 19,662 |
| 5114.102 | Health Insurance Dental | 1,857 | - | - | 968 | - | - |
| 5114.103 | Health Insurance Vision | 128 | - | - | 76 | - | - |
| 5115 | Unemployment Compensation | - | - | - | 649 | - | - |
| 5116.101 | Life and Disability Insurance Life \& Disab. | 499 | 2,006 | 2,006 | 362 | - | 2,006 |
| 5116.102 | Life and Disability Insurance Long Term/Short Term Disability | 1,211 | - | - | 792 | - | - |
| 5119.100 | Retiree Costs Medical Insurance | 4,591 | 4,675 | 4,675 | 2,337 | - | 4,675 |
| 5201.100 | Office Supplies General | 247 | 250 | 250 | 1,461 | 1,700 | 1,950 |
| 5202.100 | Operating Supplies General | 1,225 | 235 | 235 | - | - | 235 |
| 5204 | Subscriptions and Code Books | 307 | 350 | 350 | 71 | - | 350 |
| 5210.100 | Postage General | 105 | 150 | 150 | 48 | - | 150 |
| 5213.100 | Professional/Contract Services General | 13,004 | 27,581 | 27,581 | 15,436 | 2,760 | 30,341 |
| 5214.100 | Repair and Maint Service General | 11,349 | 11,415 | 11,415 | 6,066 | - | 11,415 |

## TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023



## TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023

| Account Number | Account Description | FY 2021-22 Unaudited Actual Amount | FY 2022-23 <br> Adopted Budget | FY 2022-23 <br> Amended Budget | FY 2022-23 <br> Actuals to Date | FY 2022-23 <br> Proposed Amendments | $\begin{gathered} \text { FY 2022-23 } \\ \text { Proposed } \\ \text { Amended Budget } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5260 | Miscellaneous | $(2,565)$ | - | - | - | - | - |
| 5304 | Furniture \& Equipment | 4,441 | 4,500 | 500 | - | - | 500 |
|  | Program Total: 4200 - Town Manager | 293,250 | 370,179 | 370,179 | 196,498 | - | 370,179 |
| Program: 4201-Central Services |  |  |  |  |  |  |  |
| 5101 | Salaries - Permanent | 126,982 | 144,186 | 144,186 | 75,465 | - | 144,186 |
| 5106.100 | Incentives \& Admin Leave Administrative Leave | - | 3,421 | 3,421 | - | - | 3,421 |
| 5111 | Medicare | 1,989 | 2,140 | 2,140 | 1,191 | - | 2,140 |
| 5112.101 | GASB 68 - Pension Expense PERS | 24,324 | 26,489 | 26,489 | 21,361 | - | 26,489 |
| 5113 | Worker's Compensation | 881 | 750 | 750 | 373 | - | 750 |
| 5114.101 | Health Insurance Medical | 10,410 | 13,612 | 13,612 | 6,777 | - | 13,612 |
| 5114.102 | Health Insurance Dental | 1,279 | - | - | 955 | - | - |
| 5114.103 | Health Insurance Vision | 87 | - | - | 55 | - | - |
| 5115 | Unemployment Compensation | - | - | - | 556 | - | - |
| 5116.101 | Life and Disability Insurance Life \& Disab. | 509 | 1,905 | 1,905 | 292 | - | 1,905 |
| 5116.102 | Life and Disability Insurance Long Term/Short Term Disability | 1,275 | - | - | 816 | - | - |
| 5201.100 | Office Supplies General | 1,011 | 1,000 | 1,000 | 169 | - | 1,000 |
| 5202.100 | Operating Supplies General | 3,775 | 3,145 | 3,145 | 1,602 | - | 3,145 |
| 5203.100 | Repairs and Maint Supplies General | 5,048 | 3,500 | 3,500 | 2,332 | - | 3,500 |
| 5209.101 | Auto Fuel Expense Town Vehicles | 1,131 | 2,000 | 2,000 | - | - | 2,000 |
| 5210.100 | Postage General | - | 50 | 50 | - | - | 50 |
| 5211.135 | Utilities Water and Sewer | 1,445 | 1,401 | 1,401 | 700 | - | 1,401 |
| 5211.137 | Utilities Electric and Gas | 30,132 | 31,000 | 31,000 | 18,772 | - | 31,000 |
| 5212.100 | Insurance General | 264,212 | 289,850 | 299,850 | 298,379 | - | 299,850 |
| 5213.100 | Professional/Contract Services General | 47,114 | 66,525 | 66,525 | 37,524 | - | 66,525 |
| 5214.100 | Repair and Maint Service General | 27,177 | 26,800 | 26,800 | 11,201 | - | 26,800 |
| 5215.100 | Rents and Leases Miscellaneous | 1,578 | 1,620 | 1,620 | 929 | - | 1,620 |
| 5218.100 | Advertising General | - | 100 | 100 | - | - | 100 |
| 5219.100 | Printing General | 245 | 750 | 750 | 541 | - | 750 |
| 5220.100 | Employee Development General | 918 | - | - | - | - | - |
| 5223.105 | Meals and Refreshments Emergencies and Meetings | 72 | - | - | - | - | - |
| 5225 | Bank Fees and Charges | 0 | - | - | - | - | - |
| 5260 | Miscellaneous | 38,392 | 40,644 | 43,344 | 43,344 | - | 43,344 |
| 5304 | Furniture \& Equipment | 1,162 | - | - | - | - | - |
| 5500 | Bond Payments - Fiscal Agent | 1,496 | 4,250 | 4,250 | - | - | 4,250 |
|  | Program Total: 4201 - Central Services | 592,645 | 665,138 | 677,838 | 523,331 | - | 677,838 |
| Program: 4202-Information Technology |  |  |  |  |  |  |  |
| 5101 | Salaries - Permanent | 47,824 | 131,698 | 131,698 | 69,642 | - | 131,698 |

## TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023

| Account Number | Account Description | FY 2021-22 Unaudited Actual Amount | FY 2022-23 <br> Adopted Budget | FY 2022-23 <br> Amended Budget | FY 2022-23 Actuals to Date | FY 2022-23 <br> Proposed <br> Amendments | FY 2022-23 <br> Proposed Amended Budget |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5106.100 | Incentives \& Admin Leave Administrative Leave | 2,693 | 7,598 | 7,598 | - | - | 7,598 |
| 5107 | Car Allowance/Mileage | 907 | 2,400 | 2,400 | 1,400 | - | 2,400 |
| 5111 | Medicare | 691 | 2,055 | 2,055 | 959 | - | 2,055 |
| 5112.101 | GASB 68 - Pension Expense PERS | 4,137 | 25,781 | 25,781 | 20,425 | - | 25,781 |
| 5113 | Worker's Compensation | - | 685 | 685 | 341 | - | 685 |
| 5114.101 | Health Insurance Medical | 5,639 | 17,994 | 17,994 | 8,809 | - | 17,994 |
| 5114.102 | Health Insurance Dental | 901 | - | - | 1,279 | - | - |
| 5114.103 | Heath Insurance Vision | 75 | - | - | 105 | - | - |
| 5115 | Unemployment Compensation | - | - | - | 454 | - | - |
| 5116.101 | Life and Disability Insurance Life \& Disab. | 128 | 1,336 | 1,336 | 225 | - | 1,336 |
| 5116.102 | Life and Disability Insurance Long Term/Short Term Disability | 239 | - | - | 467 | - | - |
| 5199.199 | Other Fund Support IT-Serv from Tech Fee | $(476,466)$ | $(463,123)$ | $(463,123)$ | $(283,587)$ | $(50,000)$ | $(513,123)$ |
| 5202.100 | Operating Supplies General | 628 | 3,250 | 3,250 | 806 | - | 3,250 |
| 5209.101 | Auto Fuel Expense Town Vehicles | 881 | - | - | - | - | - |
| 5213.100 | Professional/Contract Services General | 270,218 | 59,890 | 59,890 | 68,521 | 50,000 | 109,890 |
| 5214.100 | Repair and Maint Service General | 70,236 | 131,482 | 131,482 | 72,558 | - | 131,482 |
| 5215.106 | Rents and Leases Copiers | 2,203 | 2,184 | 2,184 | 1,274 | - | 2,184 |
| 5216.100 | Communications General Services | 41,992 | 49,320 | 49,320 | 24,181 | - | 49,320 |
| 5218.100 | Advertising General | 1,371 | - | - | - | - | - |
| 5219.100 | Printing General | 27 | - | - | - | - |  |
| 5220.100 | Employee Development General | - | 5,000 | 5,000 | 2,437 | - | 5,000 |
| 5223.105 | Meals and Refreshments Emergencies and Meetings | 54 | - | - | - | - | - |
| 5225 | Bank Fees and Charges | 1,798 | 1,450 | 1,450 | 678 | - | 1,450 |
| 5304 | Furniture \& Equipment | 23,825 | 21,000 | 21,000 | 9,028 | - | 21,000 |
|  | am Total: 4202 - Information Technology | - | - | - | - | - | - |
| Program: 4203 - H | lanagement |  |  |  |  |  |  |
| 5101 | Salaries - Permanent | 143,522 | 149,530 | 149,530 | 83,474 | - | 149,530 |
| 5106.100 | Incentives \& Admin Leave Administrative Leave | 1,890 | 7,828 | 7,828 | - | - | 7,828 |
| 5107 | Car Allowance/Mileage | 2,316 | 2,400 | 2,400 | 1,400 | - | 2,400 |
| 5111 | Medicare | 2,077 | 2,430 | 2,430 | 1,186 | - | 2,430 |
| 5112.101 | GASB 68 - Pension Expense PERS | 32,064 | 33,542 | 33,542 | 25,858 | - | 33,542 |
| 5113 | Worker's Compensation | 996 | 818 | 818 | 407 | - | 818 |
| 5114.101 | Health Insurance Medical | 16,135 | 21,019 | 21,019 | 10,378 | - | 21,019 |
| 5114.102 | Health Insurance Dental | 2,105 | - | - | 1,279 | - | - |
| 5114.103 | Heath Insurance Vision | 180 | - | - | 103 | - | - |
| 5115 | Unemployment Compensation | - | - | - | 558 | - | - |
| 5116.101 | Life and Disability Insurance Life \& Disab. | 505 | 1,473 | 1,473 | 296 | - | 1,473 |

## TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023

| Account Number | Account Description | FY 2021-22 Unaudited Actual Amount | FY 2022-23 <br> Adopted Budget | FY 2022-23 <br> Amended Budget | FY 2022-23 <br> Actuals to Date | FY 2022-23 <br> Proposed Amendments | FY 2022-23 <br> Proposed <br> Amended Budget |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5116.102 | Life and Disability Insurance Long Term/Short Term Disability | 910 | - | - | 597 |  |  |
| 5119.120 | Retiree Costs PERS 1959 Survivor Benefits | 4,061 | 3,750 | 3,750 | - |  | 3,750 |
| 5201.100 | Office Supplies General | 358 | 500 | 500 | 57 |  | 500 |
| 5202.100 | Operating Supplies General | 471 | 700 | 700 | 223 |  | 700 |
| 5210.100 | Postage General | 3 | 25 | 25 | 22 |  | 25 |
| 5213.100 | Professional/Contract Services General | 1,481 | 2,218 | 2,218 | 2,285 | - | 2,218 |

## TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023

| Account Number | Account Description | FY 2021-22 Unaudited Actual Amount | FY 2022-23 Adopted Budget | FY 2022-23 <br> Amended Budget | FY 2022-23 Actuals to Date | FY 2022-23 Proposed Amendments | $\begin{gathered} \text { FY 2022-23 } \\ \text { Proposed } \\ \text { Amended Budget } \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5214.100 | Repair and Maint Service General | 373 | 500 | 500 | - | - | 500 |
| 5216.100 | Communications General Services | 31 | - | - | - | - |  |
| 5219.100 | Printing General | 75 | - | - | 0 | - | - |
| 5220.100 | Employee Development General | 246 | - | - | - | - | - |
|  | Program Total: 4203 - HR and Risk Management | 209,800 | 226,733 | 226,733 | 128,123 | - | 226,733 |
| Program: 4300-Legal Services |  |  |  |  |  |  |  |
| 5210.100 | Postage General | - | 10 | 10 | - | - | 10 |
| 5213.100 | Professional/Contract Services General | 247,743 | 203,100 | 203,100 | 10,593 | - | 203,100 |
|  | Program Total: 4300 - Legal Services | 247,743 | 203,110 | 203,110 | 10,593 | - | 203,110 |
|  | Department Total: $\mathbf{2 0 - A d m i n i s t r a t i v e ~ S e r v i c e s ~}$ | 1,360,801 | 1,465,160 | 1,477,860 | 846,695 | - | 1,477,860 |
| $\begin{array}{cc}\text { Department: } & 25 \text { - Finance } \\ \text { Program: } & 4400-\text { Finance }\end{array}$ |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| 5101 | Salaries - Permanent | 156,006 | 171,452 | 171,452 | 91,618 | 7,200 | 178,652 |
| 5106.100 | Incentives \& Admin Leave Administrative Leave | 8,392 | 8,924 | 8,924 | - | - | 8,924 |
| 5107 | Car Allowance/Mileage | 1,992 | 1,992 | 1,992 | 1,162 | - | 1,992 |
| 5111 | Medicare | 2,358 | 2,644 | 2,644 | 1,309 | - | 2,644 |
| 5112.101 | GASB 68 - Pension Expense PERS | 30,134 | 31,539 | 31,539 | 25,569 | - | 31,539 |
| 5113 | Worker's Compensation | 1,084 | 892 | 892 | 443 | - | 892 |
| 5114.101 | Health Insurance Medical | 7,728 | 10,073 | 10,073 | 5,082 | - | 10,073 |
| 5114.102 | Health Insurance Dental | 914 | - | - | 556 | - | - |
| 5114.103 | Health Insurance Vision | 91 | - | - | 54 | - | - |
| 5115 | Unemployment Compensation | - | - | - | 617 | - | - |
| 5116.101 | Life and Disability Insurance Life \& Disab. | 486 | 1,594 | 1,594 | 287 | - | 1,594 |
| 5116.102 | Life and Disability Insurance Long Term/Short Term Disability | 927 | - | - | 571 | - | - |
| 5119.100 | Retiree Costs Medical Insurance | 33,083 | 34,000 | 34,000 | 17,477 | - | 34,000 |
| 5201.100 | Office Supplies General | 267 | 500 | 500 | 89 | - | 500 |
| 5202.100 | Operating Supplies General | - | 230 | 230 | 96 | - | 230 |
| 5210.100 | Postage General | 1,477 | 1,300 | 1,300 | 936 | - | 1,300 |
| 5213.100 | Professional/Contract Services General | 20,872 | 36,480 | 36,480 | 866 | - | 36,480 |
| 5218.100 | Advertising General | - | 100 | 100 | - | - | 100 |
| 5219.100 | Printing General | 1,272 | 1,000 | 1,000 | - | - | 1,000 |
| 5220.100 | Employee Development General | 2,532 | 4,750 | 4,750 | 225 | - | 4,750 |
| 5220.110 | Employee Development Education Reimb MOU Program | 400 | - | - | 600 | - | - |
| 5304 | Furniture \& Equipment | 4,158 | 1,500 | 3,650 | 2,112 | - | 3,650 |
|  | Program Total: 4400 - Finance | 274,173 | 308,970 | 311,120 | 149,669 | 7,200 | 318,320 |

[^23]Cost Center Activity: $\quad \mathbf{3 0 0}$-Police Administration

## TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023



## TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023



## TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023

| Account Number | Account Description | FY 2021-22 Unaudited Actual Amount | FY 2022-23 <br> Adopted Budget | FY 2022-23 <br> Amended Budget | FY 2022-23 <br> Actuals to Date | FY 2022-23 <br> Proposed Amendments | FY 2022-23 Proposed Amended Budget |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5119.100 | Retiree Costs Medical Insurance | 69,411 | 59,892 | 59,892 | 36,837 | - | 59,892 |
| 5201.100 | Office Supplies General | 594 | 2,000 | 2,000 | 1,281 | - | 2,000 |
| 5202.100 | Operating Supplies General | 5,415 | 5,650 | 5,650 | 2,679 | - | 5,650 |
| 5203.100 | Repairs and Maint Supplies General | 2,157 | 2,150 | 2,150 | 727 | - | 2,150 |
| 5210.100 | Postage General | 1,608 | 1,500 | 1,500 | 1,000 | - | 1,500 |
| 5211.135 | Utilities Water and Sewer | 1,137 | 1,137 | 1,137 | 399 | - | 1,137 |
| 5211.137 | Utilities Electric and Gas | 27,533 | 25,000 | 25,000 | 17,791 | - | 25,000 |
| 5211.139 | Utilities Propane | 1,971 | 1,750 | 1,750 | 483 | - | 1,750 |
| 5213.100 | Professional/Contract Services General | 7,646 | 13,590 | 13,590 | 2,690 | - | 13,590 |
| 5214.100 | Repair and Maint Service General | 39,224 | 34,139 | 34,139 | 17,549 | - | 34,139 |
| 5215.100 | Rents and Leases Miscellaneous | 676 | 565 | 565 | 270 | - | 565 |
| 5215.106 | Rents and Leases Copiers | 1,447 | 1,344 | 1,344 | 779 | - | 1,344 |
| 5216.100 | Communications General Services | 14,405 | 12,240 | 12,240 | 8,283 | 2,200 | 14,440 |
| 5218.100 | Advertising General | 1,259 | - | - | - | - | - |
| 5219.100 | Printing General | 1,305 | 500 | 500 | 38 | - | 500 |
| 5220.100 | Employee Development General | 7,072 | 8,500 | 8,500 | 1,659 | - | 8,500 |
| 5223.105 | Meals and Refreshments Emergencies and Meetings | 550 | 500 | 500 | 261 | - | 500 |
| 5225 | Bank Fees and Charges | 1,470 | 1,000 | 1,000 | 593 | - | 1,000 |
| 5303 | Improvements | - | 14,000 | 14,000 | 15,186 | 1,200 | 15,200 |
| 5304 | Furniture \& Equipment | 15,690 | 2,500 | 2,500 | - | - | 2,500 |
|  | Program Total: 4510-Police Administration | 1,129,349 | 1,220,640 | 1,220,640 | 794,446 | 3,400 | 1,224,040 |
| Program: 4520 - P | rations |  |  |  |  |  |  |
| 5101 | Salaries - Permanent | 1,231,392 | 1,502,582 | 1,502,582 | 719,219 | - | 1,502,582 |
| 5103.102 | Differential Pay Out of Class | 5,529 | - | - | 6,701 | - | - |
| 5103.105 | Differential Pay Swing/Graveyard Shift | 37,315 | - | - | 22,697 | - | - |
| 5103.108 | Differential Pay Canine Maintenance | 15,708 | - | - | 8,124 | - | - |
| 5104 | Wages - PS Holiday Pay | 65,550 | 79,805 | 79,805 | 43,202 | - | 79,805 |
| 5105 | Salaries - Overtime/FLSA | 294,473 | 235,000 | 235,000 | 157,409 | - | 235,000 |
| 5106.100 | Incentives \& Admin Leave Administrative Leave | - | - | - | 34,726 | - | - |
| 5106.101 | Incentives \& Admin Leave School Incentive | 73,855 | 59,347 | 59,347 | 32,627 | - | 59,347 |
| 5106.103 | Incentives \& Admin Leave Team Pay | 10,085 | - | - | 5,077 | - | - |
| 5106.200 | Incentives \& Admin Leave Gym Reimbursement | - | 360 | 360 | - | - | 360 |
| 5106.205 | Incentives \& Admin Leave PS Recruitment Incentive | - | 5,000 | 5,000 | - | - | 5,000 |
| 5109.100 | Allowances Uniform Allowance | 15,102 | 15,562 | 15,562 | 10,616 | - | 15,562 |
| 5111 | Medicare | 23,170 | 28,023 | 28,023 | 13,583 | - | 28,023 |
| 5112.101 | GASB 68 - Pension Expense PERS | 1,248,327 | 1,347,719 | 1,347,719 | 1,200,194 | - | 1,347,719 |
| 5113 | Worker's Compensation | 114,038 | 105,564 | 105,564 | 52,482 | - | 105,564 |

## TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023

| Account Number | Account Description | FY 2021-22 Unaudited Actual Amount | FY 2022-23 <br> Adopted Budget | FY 2022-23 <br> Amended Budget | FY 2022-23 <br> Actuals to Date | FY 2022-23 Proposed Amendments | FY 2022-23 Proposed Amended Budget |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5114.101 | Health Insurance Medical | 198,063 | 252,993 | 252,993 | 115,720 | - | 252,993 |
| 5114.102 | Health Insurance Dental | 24,909 | - | - | 15,787 | - | - |
| 5114.103 | Health Insurance Vision | 2,177 | - | - | 1,317 | - | - |
| 5115 | Unemployment Compensation | 4,937 | - | - | 6,272 | - | - |
| 5116.101 | Life and Disability Insurance Life \& Disab. | 3,859 | 16,711 | 16,711 | 2,305 | - | 16,711 |
| 5116.102 | Life and Disability Insurance Long Term/Short Term Disability | 10,353 | - | - | 6,458 | - | - |
| 5119.100 | Retiree Costs Medical Insurance | 143,591 | 154,019 | 154,019 | 73,257 | - | 154,019 |
| 5122 | Accrual Bank Payoff | 3,288 | - | - | 422 | - | - |
| 5199.130 | Other Payroll Expenses Interfund Payroll Transfers | $(86,985)$ | $(93,478)$ | $(93,478)$ | - | - | $(93,478)$ |
| 5202.100 | Operating Supplies General | 21,202 | 44,333 | 44,333 | 26,997 | - | 44,333 |
| 5204 | Subscriptions and Code Books | 1,235 | 500 | 500 | - | - | 500 |
| 5209.101 | Auto Fuel Expense Town Vehicles | 80,917 | 70,000 | 70,000 | 34,715 | - | 70,000 |
| 5213.100 | Professional/Contract Services General | 7,389 | 10,200 | 10,200 | 5,549 | - | 10,200 |
| 5214.100 | Repair and Maint Service General | 810 | 1,500 | 1,500 | - | - | 1,500 |
| 5216.100 | Communications General Services | 33,728 | 98,281 | 98,281 | 2,054 | - | 98,281 |
| 5218.100 | Advertising General | 235 | 200 | 200 | - | - | 200 |
| 5220.110 | Employee Development Education Reimb MOU Program | - | 200 | 200 | - | - | 200 |
| 5223.105 | Meals and Refreshments Emergencies and Meetings | 26 | - | - | - | - | - |
| 5224 | Travel Expenses - Lodging, Airfare, Incidentals | 146 | - | - | - | - | - |
| 5304 | Furniture \& Equipment | 8,750 | 65,500 | 3,000 | 479 | - | 3,000 |
| 5305 | Vehicles | - | - | 75,000 | - | - | 75,000 |
| 5501 | Debt Service Payment - Principal | 10,861 | 10,861 | 10,861 | 10,861 | - | 10,861 |
|  | Program Total: 4520 - Police Operations | 3,604,034 | 4,010,782 | 4,023,282 | 2,608,851 | - | 4,023,282 |
| Program: 4530 - P | Communications |  |  |  |  |  |  |
| 5101 | Salaries - Permanent | 129,489 | 244,835 | 234,335 | 74,903 | - | 234,335 |
| 5104 | Wages - PS Holiday Pay | 3,744 | 10,718 | 10,718 | 4,293 | - | 10,718 |
| 5105 | Salaries - Overtime/FLSA | 1,783 | 1,000 | 1,000 | 1,458 | - | 1,000 |
| 5106.100 | Incentives \& Admin Leave Administrative Leave | - | - | - | 2,084 | - | - |
| 5106.101 | Incentives \& Admin Leave School Incentive | 3,284 | 13,767 | 13,767 | 2,860 | - | 13,767 |
| 5106.200 | Incentives \& Admin Leave Gym Reimbursement | 360 | 90 | 90 | 330 | - | 90 |
| 5109.100 | Allowances Uniform Allowance | 1,364 | 3,228 | 3,228 | 796 | - | 3,228 |
| 5109.101 | Allowances Boot Allowance | 500 | - | - | 500 | - | - |
| 5111 | Medicare | 1,705 | 3,968 | 3,968 | 1,047 | - | 3,968 |
| 5112.101 | GASB 68 - Pension Expense PERS | 28,250 | 51,845 | 51,845 | 36,619 | - | 51,845 |
| 5113 | Worker's Compensation | 3,085 | 4,888 | 4,888 | 2,430 | - | 4,888 |
| 5114.101 | Health Insurance Medical | 28,851 | 63,624 | 63,624 | 18,351 | - | 63,624 |

## TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023

| Account Number | Account Description | FY 2021-22 Unaudited Actual Amount | FY 2022-23 <br> Adopted Budget | FY 2022-23 Amended Budget | FY 2022-23 <br> Actuals to Date | FY 2022-23 <br> Proposed <br> Amendments | FY 2022-23 <br> Proposed Amended Budget |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5114.102 | Health Insurance Dental | 4,280 | - | - | 2,558 | - |  |
| 5114.103 | Heath Insurance Vision | 306 | - | - | 181 | - | - |
| 5115 | Unemployment Compensation | - | - | - | 493 | - | - |
| 5116.101 | Life and Disability Insurance Life \& Disab. | 506 | 3,520 | 3,520 | 300 | - | 3,520 |
| 5116.102 | Life and Disability Insurance Long Term/Short Term Disability | 1,312 | - | - | 795 | - |  |
| 5119.100 | Retiree Costs Medical Insurance | 70,577 | 74,720 | 74,720 | 31,253 | - | 74,720 |
| 5122 | Accrual Bank Payoff | - | - |  | 778 | - |  |
| 5199.130 | Other Payroll Expenses Interfund Payroll Transfers | $(61,358)$ | $(66,785)$ | $(66,785)$ | - | - | $(66,785)$ |
| 5202.100 | Operating Supplies General | 656 | 2,200 | 2,200 | 157 | - | 2,200 |
| 5204 | Subscriptions and Code Books | 160 | 190 | 190 | - | - | 190 |
| 5213.100 | Professional/Contract Services General | 374,595 | 352,008 | 352,008 | 95,766 | - | 352,008 |
| 5214.100 | Repair and Maint Service General | 22,310 | 96,310 | 96,310 |  | - | 96,310 |
| 5216.100 | Communications General Services | 39,133 | 13,200 | 13,200 | 7,632 | - | 13,200 |
| 5218.100 | Advertising General | - | 100 | 10,600 | 5,403 | - | 10,600 |
| 5220.100 | Employee Development General | 3,117 | 8,450 | 8,450 | 7,595 | - | 8,450 |
| 5304 | Furniture \& Equipment | - | 5,000 | 5,000 | 1,335 | - | 5,000 |
| Program Total: 4530 - Public Safety Communications |  | 658,009 | 886,876 | 886,876 | 299,917 | - | 886,876 |
| Program: 4550 - Fleet Management |  |  |  |  |  |  |  |
| 5101 | Salaries - Permanent | 99,793 | 130,238 | 130,238 | 72,664 | - | 130,238 |
| 5109.100 | Allowances Uniform Allowance | 779 | 1,000 | 1,000 | 583 | - | 1,000 |
| 5109.101 | Allowances Boot Allowance | 1,000 | 1,000 | 1,000 | 1,000 | - | 1,000 |
| 5109.102 | Allowances Tool Allowance | 2,000 | 2,000 | 2,000 | 3,500 | - | 2,000 |
| 5111 | Medicare | 1,437 | 1,946 | 1,946 | 1,080 | - | 1,946 |
| 5112.101 | GASB 68 - Pension Expense PERS | 22,807 | 24,798 | 24,798 | 19,853 | - | 24,798 |
| 5113 | Worker's Compensation | 4,817 | 3,243 | 3,243 | 1,612 | - | 3,243 |
| 5114.101 | Health Insurance Medical | 9,626 | 14,277 | 14,277 | 6,777 | - | 14,277 |
| 5114.102 | Health Insurance Dental | 1,811 | - | - | 1,218 | - | - |
| 5114.103 | Health Insurance Vision | 99 | - | - | 71 | - | - |
| 5115 | Unemployment Compensation | - | - | - | 507 | - | - |
| 5116.101 | Life and Disability Insurance Life \& Disab. | 417 | 1,845 | 1,845 | 300 | - | 1,845 |
| 5116.102 | Life and Disability Insurance Long Term/Short Term Disability | 987 | - | - | 753 | - | - |
| 5119.100 | Retiree Costs Medical Insurance | 7,259 | 7,213 | 7,213 | 3,558 | - | 7,213 |
| 5202.100 | Operating Supplies General | 12,328 | 4,500 | 4,500 | 5,206 | 4,000 | 8,500 |
| 5203.100 | Repairs and Maint Supplies General | 101,476 | 65,000 | 65,000 | 62,736 | 55,000 | 120,000 |
| 5203.300 | Repairs and Maint Supplies Accident and Negligence | 11,326 | 5,000 | 5,000 | 1,031 | - | 5,000 |
| 5209.101 | Auto Fuel Expense Town Vehicles | 1,752 | 1,000 | 1,000 | 1,204 | 1,000 | 2,000 |

## TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023

| Account Number | Account Description | FY 2021-22 Unaudited Actual Amount | FY 2022-23 <br> Adopted Budget | FY 2022-23 Amended Budget | $\begin{aligned} & \text { FY 2022-23 } \\ & \text { Actuals to Date } \end{aligned}$ | FY 2022-23 Proposed Amendments | FY 2022-23 Proposed Amended Budget |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5210.100 | Postage General | - | 50 | 50 | 26 | - | 50 |
| 5213.100 | Professional/Contract Services General | 4,082 | 2,316 | 2,316 | 957 | - | 2,316 |
| 5214.100 | Repair and Maint Service General | 33,130 | 22,000 | 22,000 | 18,280 | 10,000 | 32,000 |
| 5214.300 | Repair and Maint Service Accident and Negligence | 5,292 | 3,500 | 3,500 | 903 |  | 3,500 |
| 5216.100 | Communications General Services | 900 | 900 | 900 | 525 | - | 900 |
| 5218.100 | Advertising General | 259 | - | - | - | - | - |
| 5220.100 | Employee Development General | 5,854 | 10,000 | 10,000 | 1,781 | - | 10,000 |
| 5224 | Travel Expenses - Lodging, Airfare, Incidentals | 42 | - | - | - | - | - |
| 5304 | Furniture \& Equipment | 5,908 | 21,800 | 21,800 | 4,434 | $(12,000)$ | 9,800 |
|  | Program Total: 4550 - Fleet Management | 335,182 | 323,626 | 323,626 | 210,559 | 58,000 | 381,626 |
|  | Department Total: $\mathbf{3 0}$ - Police | 5,726,574 | 6,441,924 | 6,454,424 | 3,913,773 | 61,400 | 6,515,824 |
| Department: 35 - Fire |  |  |  |  |  |  |  |
| Program: 4610 - Fir | trative |  |  |  |  |  |  |
| 5101 | Salaries - Permanent | 95,828 | 122,922 | 122,922 | 64,714 | - | 122,922 |
| 5105 | Salaries - Overtime/FLSA | 34 | - | - | - | - | - |
| 5106.200 | Incentives \& Admin Leave Gym Reimbursement | - | 60 | 60 | - | - | 60 |
| 5109.100 | Allowances Uniform Allowance | 566 | 636 | 636 | 450 | - | 636 |
| 5109.101 | Allowances Boot Allowance | 565 | 700 | 700 | 565 | - | 700 |
| 5111 | Medicare | 1,522 | 1,802 | 1,802 | 1,043 | - | 1,802 |
| 5112.101 | GASB 68 - Pension Expense PERS | 18,158 | 22,496 | 22,496 | 18,048 | - | 22,496 |
| 5113 | Worker's Compensation | 2,436 | 2,299 | 2,299 | 1,143 | - | 2,299 |
| 5114.101 | Health Insurance Medical | 7,617 | 10,466 | 10,466 | 5,862 | - | 10,466 |
| 5115 | Unemployment Compensation | - | - | - | 488 | - |  |
| 5116.101 | Life and Disability Insurance Life \& Disab. | 372 | 1,630 | 1,630 | 257 | - | 1,630 |
| 5116.102 | Life and Disability Insurance Long Term/Short Term Disability | 927 | - | - | 693 | - | - |
| 5119.100 | Retiree Costs Medical Insurance | 55,180 | 53,231 | 53,231 | 28,770 | - | 53,231 |
| 5201.100 | Office Supplies General | 212 | 400 | 400 | 110 | - | 400 |
| 5202.100 | Operating Supplies General | 1,574 | 3,450 | 3,450 | 1,193 | - | 3,450 |
| 5203.100 | Repairs and Maint Supplies General | 7,725 | 8,050 | 8,050 | 6,905 | - | 8,050 |
| 5209.101 | Auto Fuel Expense Town Vehicles | - | 500 | 500 | - | - | 500 |
| 5210.100 | Postage General | 255 | 300 | 300 | 353 | - | 300 |
| 5211.135 | Utilities Water and Sewer | 2,589 | 2,300 | 2,300 | 1,128 | - | 2,300 |
| 5211.137 | Utilities Electric and Gas | 30,466 | 27,000 | 27,000 | 19,001 | - | 27,000 |
| 5211.139 | Utilities Propane | 698 | 750 | 750 | 381 | - | 750 |
| 5213.100 | Professional/Contract Services General | 5,072 | 1,476 | 1,476 | 1,253 | 550 | 2,026 |
| 5214.100 | Repair and Maint Service General | 7,442 | 7,320 | 7,320 | 4,456 | - | 7,320 |
| 5215.106 | Rents and Leases Copiers | 802 | 780 | 780 | 429 | - | 780 |

## TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023

| Account Number | Account Description | FY 2021-22 Unaudited Actual Amount | FY 2022-23 <br> Adopted Budget | FY 2022-23 <br> Amended Budget | FY 2022-23 Actuals to Date | FY 2022-23 <br> Proposed Amendments | $\begin{gathered} \text { FY 2022-23 } \\ \text { Proposed } \\ \text { Amended Budget } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5216.100 | Communications General Services | 14,192 | 16,270 | 16,270 | 7,029 | - | 16,270 |
| 5219.100 | Printing General | - | 11,000 | 11,000 | - | - | 11,000 |
| 5225 | Bank Fees and Charges | - | - | - | - | - | - |
| 5303 | Improvements | - | 35,100 | 35,100 | 32,629 | - | 35,100 |
| 5304 | Furniture \& Equipment | - | - | - | - | - | - |
|  | Program Total: 4610 - Fire - Administrative | 254,229 | 330,938 | 330,938 | 196,899 | 550 | 331,488 |
| Program: 4615 - Fire - EOC |  |  |  |  |  |  |  |
| 5202.100 | Operating Supplies General | 18 | 400 | 400 | 1,313 | 1,100 | 1,500 |
| 5203.100 | Repairs and Maint Supplies General | - | - | - | 75 | - | - |
| 5213.100 | Professional/Contract Services General | 96 | - | - | - | - | - |
| 5214.100 | Repair and Maint Service General | 3,502 | 4,760 | 4,760 | 563 | - | 4,760 |
| 5216.100 | Communications General Services | 6,885 | 5,862 | 5,862 | 4,104 | - | 5,862 |
| 5223.105 | Meals and Refreshments Emergencies and Meetings | - | 500 | 500 | - | - | 500 |
| 5304 | Furniture \& Equipment | - | 6,500 | 6,500 | - | - | 6,500 |
|  | Program Total: 4615 - Fire-EOC | 10,500 | 18,022 | 18,022 | 6,055 | 1,100 | 19,122 |
| Program: 4620 - Fire - Prevention |  |  |  |  |  |  |  |
| 5213.100 | Professional/Contract Services General | 13,175 | - | - | 1 | - | - |
|  | Program Total: 4620 - Fire - Prevention | 13,175 | - | - | 1 | - | - |
| Program: 4630 - Fire - Suppression |  |  |  |  |  |  |  |
| 5112.101 | GASB 68 - Pension Expense PERS | 112,411 | 224,287 | 224,287 | 224,287 | - | 224,287 |
| 5119.100 | Retiree Costs Medical Insurance | 165,243 | 164,362 | 164,362 | 83,608 | - | 164,362 |
| 5202.100 | Operating Supplies General | 8,712 | 12,750 | 12,750 | 5,853 | - | 12,750 |
| 5203.100 | Repairs and Maint Supplies General | 1,984 | 4,450 | 4,450 | 2,731 | - | 4,450 |
| 5209.101 | Auto Fuel Expense Town Vehicles | 28,822 | 19,000 | 19,000 | 12,493 | - | 19,000 |
| 5213.100 | Professional/Contract Services General | 3,813,964 | 4,320,404 | 4,320,404 | - | - | 4,320,404 |
| 5214.100 | Repair and Maint Service General | 3,603 | 9,750 | 9,750 | 4,574 | - | 9,750 |
| 5220.100 | Employee Development General | (50) | 500 | 500 | 172 | - | 500 |
| 5223.105 | Meals and Refreshments Emergencies and Meetings | 14 | 200 | 200 | - | - | 200 |
| 5269.135 | Emergency Incident Costs Fire Related | - | 250 | 250 | - | - | 250 |
| 5303 | Improvements | - | - | - | - | - | - |
| 5304 | Furniture \& Equipment | 23,158 | 22,420 | 22,420 | 2,564 | - | 22,420 |
| 5305 | Vehicles | 4,952 | 659,000 | 659,000 | 572,374 | - | 659,000 |
| 5501 | Debt Service Payment - Principal | 68,738 | 68,738 | 68,738 | 68,738 | - | 68,738 |
|  | Program Total: 4630 - Fire - Suppression | 4,231,550 | 5,506,111 | 5,506,111 | 977,394 | - | 5,506,111 |
| Program: 4640 - Fire - Volunteer Program |  |  |  |  |  |  |  |
| 5118 | Volunteer Benefits | 587 | 1,632 | 1,632 | 384 | - | 1,632 |
| 5202.100 | Operating Supplies General | - | 200 | 200 | - | - | 200 |

## TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023

| Account Number | Account Description | FY 2021-22 Unaudited Actual Amount | FY 2022-23 <br> Adopted Budget | FY 2022-23 Amended Budget | FY 2022-23 <br> Actuals to Date | FY 2022-23 Proposed Amendments | FY 2022-23 Proposed Amended Budget |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5213.100 | Professiona//Contract Services General | 583 | 400 | 400 | - | - | 400 |
|  | Program Total: 4640 - Fire - Volunteer Program | 1,170 | 2,232 | 2,232 | 384 | - | 2,232 |
|  | Department Total: 35 - Fire | 4,510,624 | 5,857,303 | 5,857,303 | 1,180,733 | 1,650 | 5,858,953 |
| Department: 40-Community Development |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| 5101 | Salaries - Permanent | 262,507 | 376,161 | 376,161 | 154,713 | - | 376,161 |
| 5105 | Salaries - Overtime/FLSA | 387 | 5,000 | 5,000 | - | - | 5,000 |
| 5106.100 | Incentives \& Admin Leave Administrative Leave | 2,962 | 6,076 | 6,076 | - | - | 6,076 |
| 5106.200 | Incentives \& Admin Leave Gym Reimbursement | 216 | 432 | 432 | 348 | - | 432 |
| 5107 | Car Allowance/Mileage | 360 | 360 | 360 | 210 | - | 360 |
| 5109.101 | Allowances Boot Allowance | 450 | 1,100 | 1,100 | 1,000 | - | 1,100 |
| 5111 | Medicare | 3,711 | 5,394 | 5,394 | 2,224 | - | 5,394 |
| 5112.101 | GASB 68 - Pension Expense PERS | 59,196 | 71,471 | 71,471 | 53,538 | - | 71,471 |
| 5113 | Worker's Compensation | 6,546 | 4,726 | 4,726 | 2,350 | - | 4,726 |
| 5114.101 | Health Insurance Medical | 33,974 | 61,595 | 61,595 | 20,506 | - | 61,595 |
| 5114.102 | Health Insurance Dental | 5,194 | - | - | 2,716 | - | - |
| 5114.103 | Health Insurance Vision | 455 | - | - | 235 | - | - |
| 5115 | Unemployment Compensation | - | - | - | 1,036 | - | - |
| 5116.101 | Life and Disability Insurance Life \& Disab. | 1,094 | 4,779 | 4,779 | 688 | - | 4,779 |
| 5116.102 | Life and Disability Insurance Long Term/Short Term Disability | 2,034 | - | - | 1,269 | - | - |
| 5119.100 | Retiree Costs Medical Insurance | 15,042 | 15,311 | 15,311 | 8,135 | - | 15,311 |
| 5122 | Accrual Bank Payoff | 145 | - | - |  | - | - |
| 5201.100 | Office Supplies General | 90 | 200 | 200 | 60 | - | 200 |
| 5202.100 | Operating Supplies General | 165 | 500 | 500 | 53 | - | 500 |
| 5209.101 | Auto Fuel Expense Town Vehicles | 4,081 | 4,000 | 4,000 | 1,538 | - | 4,000 |
| 5210.100 | Postage General | 232 | 500 | 500 | 138 | - | 500 |
| 5213.100 | Professiona//Contract Services General | 167,510 | 800,000 | 800,000 | 40,701 | - | 800,000 |
| 5214.100 | Repair and Maint Service General | 5,073 | 5,500 | 5,500 | 5,327 | - | 5,500 |
| 5216.100 | Communications General Services | 901 | 8,032 | 8,032 | - | - | 8,032 |
| 5218.100 | Advertising General | 3,152 | 2,000 | 2,000 | 784 | - | 2,000 |
| 5219.100 | Printing General | 54 | 55 | 55 | 86 | - | 55 |
| 5220.100 | Employee Development General | 665 | 5,000 | 5,000 | 3,079 | - | 5,000 |
| 5305 | Vehicles | - | 84,000 | 84,000 | 32,637 | - | 84,000 |
|  | Program Total: 4720 - CDD Planning | 576,197 | 1,462,192 | 1,462,192 | 333,372 | - | 1,462,192 |
| Program: 4780 - CDD - Waste Management |  |  |  |  |  |  |  |
| 5101 | Salaries - Permanent | 5,905 | - | - | 117 | - | - |
| 5106.100 | Incentives \& Admin Leave Administrative Leave | 243 | - | - | - | - | - |

## TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023

| Account Number | Account Description | FY 2021-22 Unaudited Actual Amount | FY 2022-23 <br> Adopted Budget | FY 2022-23 <br> Amended Budget | FY 2022-23 Actuals to Date | FY 2022-23 <br> Proposed Amendments | $\begin{gathered} \text { FY 2022-23 } \\ \text { Proposed } \\ \text { Amended Budget } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5107 | Car Allowance/Mileage | 72 | - | - | - | - | - |
| 5111 | Medicare | 95 | - | - | 2 | - | - |
| 5112.101 | GASB 68 - Pension Expense PERS | 1,280 | - | - | 8 | - | - |
| 5113 | Worker's Compensation | 41 | - | - | - | - | - |
| 5114.101 | Health Insurance Medical | 349 | - | - | 15 | - | - |
| 5114.102 | Health Insurance Dental | 89 | - | - | 1 | - | - |
| 5114.103 | Health Insurance Vision | 9 | - | - | 0 | - | - |
| 5115 | Unemployment Compensation | - | - | - | 1 | - | - |
| 5116.101 | Life and Disability Insurance Life \& Disab. | 22 | - | - | 1 | - | - |
| 5116.102 | Life and Disability Insurance Long Term/Short Term Disability | 71 | - | - | 1 | - | - |
| 5213.100 | Professional/Contract Services General | - | 7,521 | 7,521 | - | - | 7,521 |
|  | Program Total: 4780-CDD - Waste Management | 8,177 | 7,521 | 7,521 | 147 | - | 7,521 |
|  | Department Total: 40-Community Development | 584,374 | 1,469,713 | 1,469,713 | 333,519 | - | 1,469,713 |
| Department: 45 - Pub | Works |  |  |  |  |  |  |
| Program: 4740 - P | Works - Engineering |  |  |  |  |  |  |
| 5101 | Salaries - Permanent | 229,239 | 342,967 | 402,398 | 170,380 | 16,750 | 419,148 |
| 5105 | Salaries - Overtime/FLSA | 2,961 | 2,800 | 2,800 | 718 | - | 2,800 |
| 5106.100 | Incentives \& Admin Leave Administrative Leave | 7,211 | 9,795 | 11,147 | - | - | 11,147 |
| 5106.200 | Incentives \& Admin Leave Gym Reimbursement | - | - | - | 240 | - | - |
| 5107 | Car Allowance/Mileage | 1,200 | 1,200 | 1,200 | 700 | - | 1,200 |
| 5109.101 | Allowances Boot Allowance | 400 | 800 | 1,200 | 565 | - | 1,200 |
| 5111 | Medicare | 3,516 | 5,185 | 6,072 | 2,548 | - | 6,072 |
| 5112.101 | GASB 68 - Pension Expense PERS | 46,526 | 66,734 | 81,224 | 52,183 | - | 81,224 |
| 5113 | Worker's Compensation | 19,108 | 29,135 | 32,640 | 14,485 | - | 32,640 |
| 5114.101 | Health Insurance Medical | 20,462 | 43,529 | 53,397 | 17,085 | - | 53,397 |
| 5114.102 | Health Insurance Dental | 2,263 | - | - | 1,612 | - | - |
| 5114.103 | Health Insurance Vision | 198 | - | - | 141 | - | - |
| 5115 | Unemployment Compensation | - | - | - | 1,185 | - | - |
| 5116.101 | Life and Disability Insurance Life \& Disab. | 677 | 3,504 | 4,441 | 531 | - | 4,441 |
| 5116.102 | Life and Disability Insurance Long Term/Short Term Disability | 2,267 | - | - | 1,847 | - | - |
| 5119.100 | Retiree Costs Medical Insurance | 6,077 | 7,213 | 7,213 | 1,779 | - | 7,213 |
| 5201.100 | Office Supplies General | 691 | 1,500 | 1,500 | 1,347 | - | 1,500 |
| 5202.100 | Operating Supplies General | 1,835 | 1,200 | 1,200 | 358 | - | 1,200 |
| 5203.100 | Repairs and Maint Supplies General | 94 | 100 | 100 | - | - | 100 |
| 5204 | Subscriptions and Code Books | 216 | - | - | - | - | - |
| 5209.101 | Auto Fuel Expense Town Vehicles | 2,301 | 1,800 | 1,800 | 1,239 | - | 1,800 |
| 5210.100 | Postage General | 121 | 1,000 | 1,000 | 18 | - | 1,000 |

## TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023

| Account Number | Account Description | $\begin{aligned} & \text { FY 2021-22 } \\ & \text { Unaudited Actual } \end{aligned}$ Amount | FY 2022-23 <br> Adopted Budget | FY 2022-23 <br> Amended Budget | FY 2022-23 Actuals to Date | FY 2022-23 <br> Proposed <br> Amendments | $\begin{gathered} \text { FY 2022-23 } \\ \text { Proposed } \\ \text { Amended Budget } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5213.100 | Professional/Contract Services General | 200,678 | 55,000 | 55,000 | 64,403 | 45,000 | 100,000 |
| 5214.100 | Repair and Maint Service General | 24,385 | 15,100 | 38,050 | 33,802 | - | 38,050 |
| 5216.100 | Communications General Services | 2,213 | 2,082 | 2,082 | 1,623 | - | 2,082 |
| 5218.100 | Advertising General | 831 | 700 | 700 | 1,854 | 1,500 | 2,200 |
| 5219.100 | Printing General | 206 | 110 | 110 | 162 | - | 110 |
| 5220.100 | Employee Development General | 6,319 | 5,500 | 5,500 | 4,505 | - | 5,500 |
| 5223.105 | Meals and Refreshments Emergencies and Meetings | 383 | - | - | 37 | - | - |
| 5304 | Furniture \& Equipment | 5,869 | 6,500 | 26,500 | 6,631 | - | 26,500 |
| 5305 | Vehicles | - | 30,000 | 75,200 | - | - | 75,200 |
|  | Program Total: 4740 - Public Works - Engineering | 588,246 | 633,454 | 812,474 | 381,978 | 63,250 | 875,724 |
| Program: 4745 - Paradise Community Park |  |  |  |  |  |  |  |
| 5202.100 | Operating Supplies General | 613 | 1,000 | 1,000 | 1,658 | - | 1,000 |
| 5203.100 | Repairs and Maint Supplies General | 2,017 | 1,000 | 1,000 | 459 | - | 1,000 |
| 5211.135 | Utilities Water and Sewer | 2,300 | 2,760 | 2,760 | 1,380 | - | 2,760 |
| 5211.137 | Utilities Electric and Gas | 2,230 | 2,050 | 2,050 | 1,007 | - | 2,050 |
| 5214.100 | Repair and Maint Service General | 59,024 | 58,800 | 58,800 | 32,043 | - | 58,800 |
| 5216.100 | Communications General Services | 274 | 275 | 275 | 139 | - | 275 |
|  | Program Total: 4745 - Paradise Community Park | 66,458 | 65,885 | 65,885 | 36,687 | - | 65,885 |
| Program: 4747 - Public Facilities |  |  |  |  |  |  |  |
| 5101 | Salaries - Permanent | 53,917 | 76,129 | 76,129 | 40,260 | - | 76,129 |
| 5105 | Salaries - Overtime/FLSA | 111 | - | - | 887 | - | - |
| 5106.100 | Incentives \& Admin Leave Administrative Leave | 863 | 897 | 897 | - | - | 897 |
| 5109.101 | Allowances Boot Allowance | 99 | 560 | 560 | 560 | - | 560 |
| 5111 | Medicare | 735 | 1,125 | 1,125 | 544 | - | 1,125 |
| 5112.101 | GASB 68 - Pension Expense PERS | 11,079 | 13,913 | 13,913 | 11,188 | - | 13,913 |
| 5113 | Worker's Compensation | 13,693 | 15,515 | 15,515 | 7,713 | - | 15,515 |
| 5114.101 | Health Insurance Medical | 9,527 | 19,581 | 19,581 | 9,413 | - | 19,581 |
| 5114.102 | Health Insurance Dental | 1,649 | - | - | 1,476 | - | - |
| 5114.103 | Health Insurance Vision | 109 | - | - | 91 | - | - |
| 5115 | Unemployment Compensation | - | - | - | 257 | - | - |
| 5116.101 | Life and Disability Insurance Life \& Disab. | 195 | 1,025 | 1,025 | 168 | - | 1,025 |
| 5116.102 | Life and Disability Insurance Long Term/Short Term Disability | 535 | - | - | 441 | - | - |
| 5201.100 | Office Supplies General | 64 | - | - | 182 | - | - |
| 5202.100 | Operating Supplies General | - | - | - | 24 | - | - |
| 5203.100 | Repairs and Maint Supplies General | 3,560 | 3,525 | 3,525 | 1,214 | - | 3,525 |
| 5211.135 | Utilities Water and Sewer | 5,061 | 4,380 | 4,380 | 2,328 | - | 4,380 |

## TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023



## TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023

| Account Number | Account Description | FY 2021-22 Unaudited Actual Amount | FY 2022-23 <br> Adopted Budget | FY 2022-23 <br> Amended Budget | FY 2022-23 <br> Actuals to Date | FY 2022-23 <br> Proposed Amendments | $\begin{gathered} \text { FY 2022-23 } \\ \text { Proposed } \\ \text { Amended Budget } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3404.150 | Onsite Annual Evaluator License Fee | 817 | 850 | 850 | 1,177 | - | 850 |
| 3404.151 | Onsite Extension Req for Eval or Repair | - | - | - | 33 | - | - |
| 3410.150 | Administrative Services Late Fees | 16 | - | - | - | - | - |
| 3422.337 | Fire Code Enforcement Inspection | 244,082 | 228,000 | 228,000 | 140,417 | - | 228,000 |
| 3422.368 | Fire Permit Fees | 84,481 | 84,000 | 84,000 | 38,904 | - | 84,000 |
| 3610.100 | Interest Revenue Investments | 2,556 | 10,000 | 10,000 | - | - | 10,000 |
| 3901.100 | Refunds and Reimbursements Miscellaneous | - | 10,000 | 10,000 | - | - | 10,000 |
| 3902.110 | Miscellaneous Revenue Cash Over and Short | 1 | - | - | 0 | - | - |
| 3910.130 | Transfers In From State Water Board Prop 1 | 14,351 | - | - | - | - | - |
| 3910.221 | Transfers In From WWAD | 411,165 | - | - | - | - | - |
| 3910.297 | Transfers In Grants Miscellaneous State | 83,451 | - | - | 23,442 | - | - |
| 3910.627 | Transfers In From Tech Equipment Replacement | - | 116,000 | 116,000 | - | - | 116,000 |
| 3910.628 | Transfers In From Gen Plan Fee | - | - | - | 48,341 | - | - |
| Program Total: 4730 - Building and Onsite Inspections |  | 4,595,288 | 4,125,753 | 4,125,753 | 2,212,515 | - | 4,125,753 |
| Department Total: 40-Community Development |  | 4,595,288 | 4,125,753 | 4,125,753 | 2,212,515 | - | 4,125,753 |
|  | REVENUES Total | 4,595,288 | 4,125,753 | 4,125,753 | 2,212,515 | - | 4,125,753 |
| EXPENSES |  |  |  |  |  |  |  |
| Department: 40-Community Development |  |  |  |  |  |  |  |
| Program: 4730 - Building and Onsite Inspections |  |  |  |  |  |  |  |
| 5101 | Salaries - Permanent | 946,550 | 1,290,844 | 1,290,844 | 618,956 | - | 1,290,844 |
| 5102 | Salaries - Temporary | 42,428 | 96,289 | 96,289 | 29,100 | - | 96,289 |
| 5105 | Salaries - Overtime/FLSA | 1,421 | 5,000 | 5,000 | - | - | 5,000 |
| 5106.100 | Incentives \& Admin Leave Administrative Leave | 19,804 | 21,884 | 21,884 | - | - | 21,884 |

TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023

| Account Number | Account Description | FY 2021-22 Unaudited Actual Amount | FY 2022-23 Adopted Budget | FY 2022-23 <br> Amended Budget | FY 2022-23 <br> Actuals to Date | FY 2022-23 <br> Proposed Amendments | $\begin{gathered} \text { FY 2022-23 } \\ \text { Proposed } \\ \text { Amended Budget } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5106.200 | Incentives \& Admin Leave Gym Reimbursement | 234 | 468 | 468 | 402 | - | 468 |
| 5107 | Car Allowance/Mileage | 2,372 | 2,448 | 2,448 | 1,402 | - | 2,448 |
| 5109.100 | Allowances Uniform Allowance | 3,675 | 3,028 | 3,028 | 2,031 | - | 3,028 |
| 5109.101 | Allowances Boot Allowance | 2,785 | 3,700 | 3,700 | 2,235 | - | 3,700 |
| 5111 | Medicare | 15,186 | 19,613 | 19,613 | 9,668 | - | 19,613 |
| 5112.101 | GASB 68 - Pension Expense PERS | 205,270 | 249,647 | 249,647 | 192,875 | - | 249,647 |
| 5112.102 | GASB 68 - Pension Expense Social Security | 767 | 5,970 | 5,970 | 806 | - | 5,970 |
| 5113 | Worker's Compensation | 31,170 | 28,639 | 28,639 | 14,238 | - | 28,639 |
| 5114.101 | Health Insurance Medical | 87,633 | 162,440 | 162,440 | 63,656 | - | 162,440 |
| 5114.102 | Health Insurance Dental | 17,467 | - | - | 11,212 | - | - |
| 5114.103 | Health Insurance Vision | 1,376 | - | - | 855 | - | - |
| 5115 | Unemployment Compensation | (335) | - | - | 4,521 | - | - |
| 5116.101 | Life and Disability Insurance Life \& Disab. | 3,625 | 15,916 | 15,916 | 2,435 | - | 15,916 |
| 5116.102 | Life and Disability Insurance Long Term/Short Term Disability | 8,490 | - | - | 6,068 | - | - |
| 5119.100 | Retiree Costs Medical Insurance | 39,667 | 44,635 | 44,635 | 31,910 | - | 44,635 |
| 5122 | Accrual Bank Payoff | 8,234 | - | - | 807 | - | - |
| 5201.100 | Office Supplies General | 1,246 | 2,000 | 2,000 | 1,085 | - | 2,000 |
| 5202.100 | Operating Supplies General | 10,564 | 13,000 | 13,000 | 4,787 | - | 13,000 |
| 5203.100 | Repairs and Maint Supplies General | 22,984 | 26,500 | 26,500 | 1,176 | - | 26,500 |
| 5204 | Subscriptions and Code Books | 1,954 | 9,000 | 9,000 | 1,677 | - | 9,000 |
| 5209.101 | Auto Fuel Expense Town Vehicles | 10,308 | 7,000 | 7,000 | 6,915 | - | 7,000 |
| 5210.100 | Postage General | (135) | 1,500 | 1,500 | (435) | - | 1,500 |
| 5211.135 | Utilities Water and Sewer | 1,729 | 3,000 | 3,000 | 865 | - | 3,000 |
| 5211.137 | Utilities Electric and Gas | 30,784 | 45,600 | 45,600 | 21,066 | - | 45,600 |
| 5213.100 | Professional/Contract Services General | 1,033,858 | 903,650 | 903,650 | 307,721 | - | 903,650 |
| 5214.100 | Repair and Maint Service General | 156,889 | 258,490 | 258,490 | 140,756 | - | 258,490 |
| 5215.100 | Rents and Leases Miscellaneous | 2,080 | 2,300 | 2,300 | 1,073 | - | 2,300 |
| 5215.106 | Rents and Leases Copiers | 8,162 | 5,400 | 5,400 | 2,491 | - | 5,400 |
| 5216.100 | Communications General Services | 13,671 | 28,645 | 28,645 | 10,391 | - | 28,645 |
| 5218.100 | Advertising General | 690 | 500 | 500 | 160 | - | 500 |
| 5219.100 | Printing General | 611 | 1,000 | 1,000 | 172 | - | 1,000 |
| 5220.100 | Employee Development General | 8,525 | 30,000 | 30,000 | 11,300 | - | 30,000 |
| 5223.105 | Meals and Refreshments Emergencies and Meetings | 1,078 | 2,400 | 2,400 | 720 | - | 2,400 |
| 5225 | Bank Fees and Charges | 48,240 | 36,000 | 36,000 | 19,561 | - | 36,000 |
| 5303 | Improvements | 17,185 | 80,000 | 80,000 | - | $(5,700)$ | 74,300 |
| 5304 | Furniture \& Equipment | 6,665 | 45,300 | 45,300 | 23,476 | - | 45,300 |
| 5305 | Vehicles | 147,417 | 64,000 | 64,000 | - | - | 64,000 |

## TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023



## TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023



## TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023

| Account Number Account Description | FY 2021-22 Unaudited Actual Amount | FY 2022-23 <br> Adopted Budget | FY 2022-23 <br> Amended Budget | FY 2022-23 <br> Actuals to Date | FY 2022-23 <br> Proposed Amendments | FY 2022-23 Proposed Amended Budget |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5305 Vehicles | 106,229 | 104,000 | 104,000 | - | 7,000 | 111,000 |
| 5910.010 Transfers Out To General Fund | 54,357 | 66,344 | 66,344 | - | - | 66,344 |
| Program Total: 4540 - Police - Animal Control | 510,584 | 577,332 | 577,332 | 179,694 | 7,000 | 584,332 |
| Department Total: 30 - Police | 510,584 | 577,332 | 577,332 | 179,694 | 7,000 | 584,332 |
| EXPENSES Total | 510,584 | 577,332 | 577,332 | 179,694 | 7,000 | 584,332 |
| Fund REVENUE Total: 2070 - Animal Control | 510,864 | 577,332 | 577,332 | 241,721 | 7,000 | 584,332 |
| Fund EXPENSE Total: 2070 - Animal Control | 510,584 | 577,332 | 577,332 | 179,694 | 7,000 | 584,332 |
| Fund Total: 2070-Animal Control | 280 | - | - | 62,026 | - | - |
| Fund: 2090 - Camp Fire 2018 |  |  |  |  |  |  |
| REVENUES |  |  |  |  |  |  |
| Department: 00 - Non Department Activity |  |  |  |  |  |  |
| Program: 0000 - Non Program Activity |  |  |  |  |  |  |
| $3320.100 \quad$Federal Revenue - Other Refunds and <br> Reimbursements | 1,109,830 | - | - | - | - | - |
| 3345.100 State Revenues - Other Refunds \& Reimbursements | 379,607 | 4,642,667 | 4,642,667 | - | - | 4,642,667 |
| 3901.145 Refunds and Reimbursements Insurance Proceeds | 37,849 | 648,150 | 648,150 | - | 15,500 | 663,650 |
| 3902.100 Miscellaneous Revenue General | 5,412 | - | - | 475 | - | - |
| 3910.010 Transfers In From General Fund | - | 373,273 | 373,273 | - | - | 373,273 |
| 3910.136 Transfers In From FEMA Grants FHMG | 76,749 | 376,188 | 376,188 | - | - | 376,188 |
| 3910.137 Transfers In EDA Grant | 128,068 | - | - | - | - | - |
| 3910.301 Transfers In CDBG - DR | 115,926 | 309,511 | 309,511 | - | - | 309,511 |
| 3910.815 Transfers In From General Misc Donations | 45,224 | - | - | - | - | - |
| Program Total: 0000 - Non Program Activity | 1,898,665 | 6,349,789 | 6,349,789 | 475 | 15,500 | 6,365,289 |
| Department Total: 00 - Non Department Activity | 1,898,665 | 6,349,789 | 6,349,789 | 475 | 15,500 | 6,365,289 |
| REVENUES Total | 1,898,665 | 6,349,789 | 6,349,789 | 475 | 15,500 | 6,365,289 |
| EXPENSES |  |  |  |  |  |  |
| Department: 00 - Non Department Activity |  |  |  |  |  |  |
| Program: 0000 - Non Program Activity |  |  |  |  |  |  |
| Cost Center Activity: |  |  |  |  |  |  |
| 5213.100 Professional/Contract Services General | 1,100 | - | - | - | - | - |
| Cost Center Activity Total | 1,100 | - | - | - | - | - |
| Cost Center Activity: 504 - FEMA Safety Assessment (SAP) B10 |  |  |  |  |  |  |
| 5224 Travel Expenses - Lodging, Airfare, Incidentals | (154) | - | - | - | - | - |
| Cost Center Activity Total: 504 - FEMA Safety Assessment (SAP) B10 | (154) | - | - | - | - | - |
| Cost Center Activity: 506 - FEMA Administrative Costs $\mathrm{Z1}$ |  |  |  |  |  |  |
| 5213.100 Professional/Contract Services General | 102,150 | 45,000 | 45,000 | - | - | 45,000 |
| Cost Center Activity Total: 506 - FEMA Administrative Costs $\mathrm{Z1}$ | 102,150 | 45,000 | 45,000 | - | - | 45,000 |

## TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023

| Account Number $\quad$ Account Description | FY 2021-22 Unaudited Actual Amount | FY 2022-23 <br> Adopted Budget | $\begin{gathered} \text { FY 2022-23 } \\ \text { Amended Budget } \end{gathered}$ | FY 2022-23 Actuals to Date |
| :---: | :---: | :---: | :---: | :---: |
| Cost Center Activity: $\quad 507$ - FEMA Haz Tree Removal (P2) - A1 |  |  |  |  |
| 5202.100 Operating Supplies General | 2,000 | - | - | 478 |
| 5209.105 Auto Fuel Expense Employee Personal Vehicle Use | 73 | - | - | - |
| 5213.100 Professional/Contract Services General | 148,164 | - | - | 20,621 |
| Cost Center Activity Total: 507 - FEMA Haz Tree Removal (P2) - A1 | 150,237 | - | - | 21,099 |
| Cost Center Activity: 556 - Insurance Veh \& Equip Repair/Rep |  |  |  |  |
| 5910.120 Transfers Out To State Gas Tax Fund | 120,609 | - | - | - |
| Cost Center Activity Total: 556 - Insurance Veh \& Equip Repair/Rep | 120,609 | - | - | - |
| Cost Center Activity: 560 - Insurance Claim Preparation |  |  |  |  |
| 5213.100 Professional/Contract Services General | 56,740 | 10,000 | 10,000 | - |
| Cost Center Activity Total: 560 - Insurance Claim Preparation | 56,740 | 10,000 | 10,000 | - |
| Cost Center Activity: 561 -HMGP Administration |  |  |  |  |
| 5213.100 Professional/Contract Services General | 12,546 | - | - | - |
| Cost Center Activity Total: 561 - HMGP Administration | 12,546 | - | - | - |
| Program Total: 0000 - Non Program Activity | 443,227 | 55,000 | 55,000 | 21,099 |
| Department Total: 00 - Non Department Activity | 443,227 | 55,000 | 55,000 | 21,099 |
| Department: 30-Police |  |  |  |  |
| Program: 4540 - Police - Animal Control |  |  |  |  |
| Cost Center Activity: 572 - NV Grant-Animal Control \& Shelte |  |  |  |  |
| 5303 Improvements | 4,905 | - | - | - |
| Cost Center Activity Total: 572-NV Grant-Animal Control \& Shelte | 4,905 | - | - | - |
| Program Total: 4540 - Police - Animal Control | 4,905 | - | - | - |
| Department Total: 30 - Police | 4,905 | - | - | - |
| Department: 45 - Public Works |  |  |  |  |
| Program: 4740-Public Works - Engineering |  |  |  |  |
| Cost Center Activity: $\quad \mathbf{5 0 6}$ - FEMA Administrative Costs Z1 |  |  |  |  |
| 5213.100 Professional/Contract Services General | $(7,426)$ | - | - | - |
| Cost Center Activity Total: 506 - FEMA Administrative Costs $\mathrm{Z1}$ | $(7,426)$ | - | - | - |
| Cost Center Activity: 559-Insurance - Infrastructure |  |  |  |  |
| 5213.100 Professional/Contract Services General | $(28,875)$ | - | - | - |
| Cost Center Activity Total: 559 - Insurance - Infrastructure | $(28,875)$ | - | - | - |
| Program Total: 4740 - Public Works - Engineering | $(36,301)$ | - | - | - |
| Program: 4743 - Streets and Roads |  |  |  |  |
| Cost Center Activity: 506 - FEMA Administrative Costs $\mathrm{Z1}$ |  |  |  |  |
| 5213.100 Professional/Contract Services General | $(2,222)$ | - | - | - |
| Cost Center Activity Total: 506 - FEMA Administrative Costs $\mathrm{Z1}$ | $(2,222)$ | - | - | - |
| Program Total: 4743 - Streets and Roads | $(2,222)$ | - | - | - |


| FY 2022-23 | FY 2022-23 |
| :---: | :---: |
| Proposed | Proposed |
| Amendments | Amended Budget |


| - | - |
| :---: | :---: |
| - | - |
| 15,500 | 15,500 |
| 15,500 | 15,500 |
|  |  |
| - | 10,000 |
| - | 10,000 |
| - | - |
| - | - |
| 15,500 | 70,500 |
| 15,500 | 70,500 |


| - | - |
| :---: | :---: |
| - | - |
| - | - |
| - | - |

## TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023

| Account Number | Account Description | FY 2021-22 <br> Unaudited Actual Amount | FY 2022-23 Adopted Budget | FY 2022-23 <br> Amended Budget | FY 2022-23 <br> Actuals to Date | FY 2022-23 <br> Proposed Amendments | $\begin{gathered} \text { FY 2022-23 } \\ \text { Proposed } \\ \text { Amended Budget } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Program: 4747 - Public Facilities |  |  |  |  |  |  |  |
| Cost Center Activity: | 558 - Insurance Extra Expense |  |  |  |  |  |  |
| 5214.100 | Repair and Maint Service General | 31,750 | - | - | 3,639 | - | - |
| Cost Center Activity Total: 558 - Insurance Extra Expense |  | 31,750 | - | - | 3,639 | - | - |
|  | Program Total: 4747 - Public Facilities | 31,750 | - | - | 3,639 | - | - |
| Program: 4750 - Public Works - Streets Maint. |  |  |  |  |  |  |  |
| Cost Center Activity: | 505 - FEMA Toxic Debris Removal A2\&3 |  |  |  |  |  |  |
| 5203.100 | Repairs and Maint Supplies General | - | - | - | 5 | - | - |
| Cost Center Activity Total: 505 - FEMA Toxic Debris Removal A2\&3 |  | - | - | - | 5 | - | - |
| Cost Center Activity: | 508 - FEMA - Culverts - C1-10 |  |  |  |  |  |  |
| 5910.120 | Transfers Out To State Gas Tax Fund | 2,754 | - | - | - | - | - |
| 8408 | Off-System Culvert Repair | 27,965 | 607,790 | 607,790 | 497,835 | - | 607,790 |
| Cost Center Activity Total: 508 - FEMA - Culverts - C1-10 |  | 30,718 | 607,790 | 607,790 | 497,835 | - | 607,790 |
| Cost Center Activity: | 509 - FEMA - Non Fed Aid Roads - C2 |  |  |  |  |  |  |
| 5910.120 | Transfers Out To State Gas Tax Fund | 29,395 | 41,539 | 41,539 | - | - | 41,539 |
| 8407 | Off System Road Rehabilitation | 1,413,901 | 4,006,488 | 4,006,488 | 105,715 | - | 4,006,488 |
| Cost Center Activity Total: 509-FEMA - Non Fed Aid Roads - C2 |  | 1,443,296 | 4,048,027 | 4,048,027 | 105,715 | - | 4,048,027 |
| Cost Center Activity: | 516 - FEMA - Camp Fire Hydrant Repairs |  |  |  |  |  |  |
| 8404 | Camp Fire Hydrant Repairs | - | 251,361 | 251,361 | - | - | 251,361 |
| Cost Center Activity Total: 516 - FEMA - Camp Fire Hydrant Repairs |  | - | 251,361 | 251,361 | - | - | 251,361 |
| Cost Center Activity: 554 - Insurance Facility Yard Equip |  |  |  |  |  |  |  |
| 5304 | Furniture \& Equipment | - | - | - | 2,285 | - | - |
| Cost Center Activity Total: 554 - Insurance Facility Yard Equip |  | - | - | - | 2,285 | - | - |
| Cost Center Activity: 556 - Insurance Veh \& Equip Repair/Rep |  |  |  |  |  |  |  |
| 5215.131 | Rents and Leases Street Maintenance Equipment | - | 10,000 | 10,000 | - | - | 10,000 |
| Cost Center Activity Total: 556 - Insurance Veh \& Equip Repair/Rep |  | - | 10,000 | 10,000 | - | - | 10,000 |
| Cost Center Activity: 559 - Insurance - Infrastructure |  |  |  |  |  |  |  |
| 5203.100 | Repairs and Maint Supplies General | - | - | - | 629 | - | - |
| 5910.100 | Transfers Out To Capital Projects | - | 500,000 | 500,000 | - | - | 500,000 |
| 5910.105 | Transfers Out To Camp Fire Recovery Projects | - | 96,400 | 96,400 | - | - | 96,400 |
| 8402 | Trailway Lighting Repairs | 540 | 31,750 | 31,750 | - | - | 31,750 |
| 8403 | Skyway/Pearson Traffic Signal Repair | 287,408 | - | - | 52,282 | - | - |
| Cost Center Activity Total: 559-Insurance - Infrastructure |  | 287,948 | 628,150 | 628,150 | 52,910 | - | 628,150 |
| Program Total: 4750 - Public Works - Streets Maint. |  | 1,761,962 | 5,545,328 | 5,545,328 | 658,751 | - | 5,545,328 |
| Department Total: 45 - Public Works |  | 1,755,190 | 5,545,328 | 5,545,328 | 662,390 | - | 5,545,328 |
| partment: 65- | cy Mngmt \& Disaster Recov |  |  |  |  |  |  |

## TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023



## TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023

| Account Number Account Description | FY 2021-22 Unaudited Actual Amount | FY 2022-23 <br> Adopted Budget | FY 2022-23 Amended Budget | FY 2022-23 <br> Actuals to Date | FY 2022-23 <br> Proposed Amendments | $\begin{gathered} \text { FY 2022-23 } \\ \text { Proposed } \\ \text { Amended Budget } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Fund EXPENSE Total: 2090 - Camp Fire 2018 | 2,746,926 | 6,349,789 | 6,349,789 | 962,002 | 15,500 | 6,365,289 |
| Fund Total: 2090 - Camp Fire 2018 | $(848,262)$ | - | - | $(961,527)$ | - | - |
| Fund: 2095-COVID-19 |  |  |  |  |  |  |
| REVENUES |  |  |  |  |  |  |
| Department: 00 - Non Department Activity |  |  |  |  |  |  |
| Program: 0000 - Non Program Activity |  |  |  |  |  |  |
| Cost Center Activity: 595-COVID-19-Emergency Response |  |  |  |  |  |  |
| $3320.100 \quad$Federal Revenue - Other Refunds and <br> Reimbursements | 25,983 | - | - | - | - | - |
| 3345.100 State Revenues - Other Refunds \& Reimbursements | 1,339,227 | 1,396,407 | 1,396,407 | - | - | 1,396,407 |
| 3610.100 Interest Revenue Investments | 687 | - |  | - | - | - |
| Cost Center Activity Total: 595-COVID-19-Emergency Response | 1,365,896 | 1,396,407 | 1,396,407 | - | - | 1,396,407 |
| Program Total: 0000 - Non Program Activity | 1,365,896 | 1,396,407 | 1,396,407 | - | - | 1,396,407 |
| Department Total: 00 - Non Department Activity | 1,365,896 | 1,396,407 | 1,396,407 | - | - | 1,396,407 |
| REVENUES Total | 1,365,896 | 1,396,407 | 1,396,407 | - | - | 1,396,407 |
| EXPENSES |  |  |  |  |  |  |
| Department: 00 - Non Department Activity |  |  |  |  |  |  |
| Program: 0000 - Non Program Activity |  |  |  |  |  |  |
| Cost Center Activity: 595-COVID-19-Emergency Response |  |  |  |  |  |  |
| 5101 Salaries - Permanent | 52,056 | 50,000 | 50,000 | 28,904 | - | 50,000 |
| 5111 Medicare | 702 | - | - | 397 | - | - |
| 5112.101 GASB 68 - Pension Expense PERS | 3,775 | - | - | 2,390 | - | - |
| 5114.101 Health Insurance Medical | 4,043 | - | - | 2,145 | - | - |
| 5114.103 Health Insurance Vision | 66 | - | - | 34 | - | - |
| 5115 Unemployment Compensation | - | - | - | 175 | - | - |
| 5116.101 Life and Disability Insurance Life \& Disab. | 206 | - | - | 88 | - | - |
| 5116.102 Life and Disability Insurance Long Term/Short Term | 519 | - | - | 14 | - | - |
| 5202.100 Operating Supplies General | 6,930 | 17,500 | 17,500 | 788 | - | 17,500 |
| 5203.100 Repairs and Maint Supplies General | 2,219 | - | - | - | - | - |
| 5213.100 Professional/Contract Services General | 500 | 5,000 | 5,000 | - | - | 5,000 |
| 5214.100 Repair and Maint Service General | 1,500 | - | - | - | - | - |
| 5304 Furniture \& Equipment | - | 5,000 | 5,000 | - | - | 5,000 |
| 5910.010 Transfers Out To General Fund | - | 102,000 | 361,000 | - | - | 361,000 |
| 5910.105 Transfers Out To Camp Fire Recovery Projects | - | 820,000 | 1,328,361 | - | - | 1,328,361 |
| Cost Center Activity Total: 595 - COVID-19-Emergency Response | 72,515 | 999,500 | 1,766,861 | 34,935 | - | 1,766,861 |
| Program Total: 0000 - Non Program Activity | 72,515 | 999,500 | 1,766,861 | 34,935 | - | 1,766,861 |
| Department Total: 00 - Non Department Activity | 72,515 | 999,500 | 1,766,861 | 34,935 | - | 1,766,861 |


| Account Number Account Description | FY 2021-22 Unaudited Actual Amount | FY 2022-23 <br> Adopted Budget | FY 2022-23 Amended Budget | FY 2022-23 <br> Actuals to Date |
| :---: | :---: | :---: | :---: | :---: |
| Department: 20 - Administrative Services |  |  |  |  |
| Program: 4202-Information Technology |  |  |  |  |
| Cost Center Activity: 595-COVID-19-Emergency Response |  |  |  |  |
| 5304 Furniture \& Equipment | 1,005 | - | - | - |
| Cost Center Activity Total: 595-COVID-19-Emergency Response | 1,005 | - | - | - |
| Program Total: 4202 - Information Technology | 1,005 | - | - | - |
| Program: 4203 - HR and Risk Management |  |  |  |  |
| Cost Center Activity: 595-COVID-19-Emergency Response |  |  |  |  |
| 5202.100 Operating Supplies General | 110 | - | - | - |
| Cost Center Activity Total: 595-COVID-19-Emergency Response | 110 | - | - | - |
| Program Total: 4203 - HR and Risk Management | 110 | - | - | - |
| Department Total: $\mathbf{2 0}$ - Administrative Services | 1,116 | - | - | - |
| Department: 30-Police |  |  |  |  |
| Program: 4510 - Police Administration |  |  |  |  |
| Cost Center Activity: 595-COVID-19-Emergency Response |  |  |  |  |
| 5213.100 Professional/Contract Services General | 150 | - | - | - |
| Cost Center Activity Total: 595 - COVID-19-Emergency Response | 150 | - | - | - |
| Program Total: 4510 - Police Administration | 150 | - | - | - |
| Program: 4520 - Police Operations |  |  |  |  |
| Cost Center Activity: 595-COVID-19-Emergency Response |  |  |  |  |
| 5213.100 Professional/Contract Services General | 147 | - | - | - |
| Cost Center Activity Total: 595-COVID-19-Emergency Response | 147 | - | - | - |
| Program Total: 4520 - Police Operations | 147 | - | - | - |
| Department Total: 30 - Police | 297 | - | - | - |
| Department: 35 - Fire |  |  |  |  |
| Program: 4610 - Fire - Administrative |  |  |  |  |
| Cost Center Activity: 595-COVID-19-Emergency Response |  |  |  |  |
| 5214.100 Repair and Maint Service General | - | 150,000 | - | 754 |
| 5303 Improvements | - | - | 205,240 | - |
| Cost Center Activity Total: 595 - COVID-19-Emergency Response | - | 150,000 | 205,240 | 754 |
| Program Total: 4610 - Fire - Administrative | - | 150,000 | 205,240 | 754 |
| Department Total: 35 - Fire | - | 150,000 | 205,240 | 754 |
| Department: 40-Community Development |  |  |  |  |
| Program: 4720-CDD Planning |  |  |  |  |
| Cost Center Activity: 595-COVID-19-Emergency Response |  |  |  |  |
| 5202.100 Operating Supplies General | 2,127 | - | - | - |
| Cost Center Activity Total: 595 - COVID-19-Emergency Response | 2,127 | - | - | - |


| FY 2022-23 | FY 2022-23 |
| :---: | :---: |
| Proposed | Proposed |
| Amendments | Amended Budget |

Proposed mended Budget

| - | - |
| :---: | :---: |
| - | - |
| - | - |
| - | - |



Program: 4720 -CDD Planning
595 -COVID-19 - Emergency Respons
Cost Center Activity Total: 595-COVID-19 - Emergency Response 2,127

## TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023


FY 2022-23
Proposed

Amendments $\quad$| FY 2022-23 |
| :---: |
| Proposed |
| Amended Budget |

| - | - |
| :---: | :---: |
| - | - |
| - | - |
| - | - |


| - | 10,000 |
| :---: | :---: |
| - | 10,000 |
| - | 10,000 |


| - | - |
| :---: | :---: |
| - | - |
| - | - |
| - | 10,000 |


|  | - | 200,000 |
| ---: | ---: | ---: |
| - | 200,000 |  |
| - | 200,000 |  |
| - | 200,000 |  |
| - | $2,182,101$ |  |
| - | $1,396,407$ |  |
| - | $2,182,101$ |  |
| - | $(785,694)$ |  |

## TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023

| Account Number | Account Description | FY 2021-22 Unaudited Actual Amount | FY 2022-23 Adopted Budget | FY 2022-23 <br> Amended Budget | FY 2022-23 <br> Actuals to Date | FY 2022-23 <br> Proposed Amendments | $\begin{gathered} \text { FY 2022-23 } \\ \text { Proposed } \\ \text { Amended Budget } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3910.120 | Transfers In From State Gas Tax Fund | - | - | 60,000 | - | - | 60,000 |
| 3910.130 | Transfers In From State Water Board Prop 1 | 896,593 | 303,782 | 303,782 | - | 350,000 | 653,782 |
| 3910.132 | Transfers In From HSIP Grant | 26,540 | 9,000 | 9,000 | - | - | 9,000 |
| 3910.133 | Transfers In From ATP Grant | 2,918,736 | 886,017 | 886,017 | - | - | 886,017 |
| 3910.161 | Transfers In From BHS HUD Revolving Loan Fund | - | 126,957 | 126,957 | - | - | 126,957 |
| 3910.301 | Transfers In CDBG - DR | 106,221 | - | - | - | - | - |
| 3910.315 | Transfers In From BHS CDBG 2015 Grant | - | 9,671 | 9,671 | - | - | 9,671 |
| 3910.316 | Transfers In From BHS CDBG 2016 Grant | - | 40,000 | 40,000 | - | - | 40,000 |
| 3910.317 | Transfers In From BHS CDBG 2017 Grant | - | 13,223 | 13,223 | - | - | 13,223 |
| 3910.318 | Transfers In From BHS CDBG 2018 Grant | - | 120,701 | 120,701 | - | - | 120,701 |
| 3910.319 | Transfers In From BHS CDBG 2019 Grant | - | 117,833 | 117,833 | - | - | 117,833 |
| 3910.320 | Transfers In From BHS CDBG 2020 Grant | - | 33,943 | 33,943 | - | - | 33,943 |
| 3910.321 | Transfers In From BHS CDBG 2021 Grant | - | 80,650 | 80,650 | - | - | 80,650 |
| 3910.322 | Transfers In From BHS CDBG 2022 Grant | - | 57,000 | 57,000 | - | - | 57,000 |
| 3910.551 | Transfers In From Impact Fees Drainage Fund | - | - | 250,000 | - | - | 250,000 |
|  | Program Total: 8901 - CIP Programs | 5,325,435 | 3,689,770 | 4,099,770 | 298,928 | 350,000 | 4,449,770 |
|  | Department Total: 50-CIP Programs | 5,325,435 | 3,689,770 | 4,099,770 | 298,928 | 350,000 | 4,449,770 |
|  | REVENUES Total | 5,325,435 | 3,689,770 | 4,099,770 | 298,928 | 350,000 | 4,449,770 |
| EXPENSES |  |  |  |  |  |  |  |
| Department: 50-CIP Programs |  |  |  |  |  |  |  |
| Program: 8901 - CIP Programs |  |  |  |  |  |  |  |
| 9377 | Almond Multi-Modal Improvements | 978,415 | 819,681 | 819,681 | 796,562 | - | 819,681 |
| 9380 | Ponderosa Safe Routes to School | 1,001,407 | 74,000 | 74,000 | 11,527 | - | 74,000 |
| 9385 | Paradise Gap Closure Complex | 1,496,370 | 867,435 | 867,435 | 807,496 | - | 867,435 |
| 9389 | Pentz Pathway Ph II Project | 606,045 | 187,450 | 287,450 | 101,163 | - | 287,450 |
| 9390 | Skyway-Neal Bike-Ped Project | 129,827 | 291,188 | 291,188 | 59,421 | - | 291,188 |
| 9391 | Oliver Curve Pathway Project | 187,213 | 236,256 | 236,256 | 62,536 | - | 236,256 |
| 9394 | Downtown Sewer Environmental Study | 896,593 | 303,782 | 303,782 | 495,527 | 350,000 | 653,782 |
| 9408 | Systemic Intersection Safety Improvements | 29,489 | 10,000 | 10,000 | 24,638 | - | 10,000 |
| 9416 | Pavement Management Program Update | - | - | 60,000 | - | - | 60,000 |
| 9417 | CDBG Sidewalk Improvements 2022 - HUD funding | 150 | 899,978 | 794,978 | 165,671 | - | 794,978 |
| 9418 | Stearns Road Emergency Culvert Replacement | - | - | 250,000 | 197,919 | - | 250,000 |
| 9420 | Interim Safety Striping 2022 | - | - | 105,000 | 95,098 | - | 105,000 |
|  | Program Total: 8901 - CIP Programs | 5,325,509 | 3,689,770 | 4,099,770 | 2,817,559 | 350,000 | 4,449,770 |
|  | Department Total: 50-CIP Programs | 5,325,509 | 3,689,770 | 4,099,770 | 2,817,559 | 350,000 | 4,449,770 |
|  | EXPENSES Total | 5,325,509 | 3,689,770 | 4,099,770 | 2,817,559 | 350,000 | 4,449,770 |

## TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023

| Account Number | Account Description | FY 2021-22 Unaudited Actual Amount | FY 2022-23 <br> Adopted Budget | FY 2022-23 <br> Amended Budget | FY 2022-23 <br> Actuals to Date | FY 2022-23 <br> Proposed Amendments | FY 2022-23 Proposed Amended Budget |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Fund REVENUE Total: 2100-CIP Fund | 5,325,435 | 3,689,770 | 4,099,770 | 298,928 | 350,000 | 4,449,770 |
|  | Fund EXPENSE Total: 2100 - CIP Fund | 5,325,509 | 3,689,770 | 4,099,770 | 2,817,559 | 350,000 | 4,449,770 |
| Fund Total: 2100-CIP Fund |  | (74) | - | - | $(2,518,632)$ | - | - |
| Fund: 2105 - Disaster Recovery Projects |  |  |  |  |  |  |  |
| REVENUES |  |  |  |  |  |  |  |
| Department: 65 - Emergency Mngmt \& Disaster Recov |  |  |  |  |  |  |  |
| Program: 4205 - Disaster Recovery |  |  |  |  |  |  |  |
| 3910.010 | Transfers In From General Fund | 76,732 | 60,000 | 124,080 | - | - | 124,080 |
| 3910.090 | Transfers In From Camp Fire Recovery | 37,849 | 96,400 | 96,400 | - | - | 96,400 |
| 3910.095 | Transfers In From COVID-19 Fund | - | 820,000 | 1,328,361 | - | - | 1,328,361 |
| 3910.130 | Transfers In From State Water Board Prop 1 | 47,499 | 492,546 | 492,546 | - | - | 492,546 |
| 3910.136 | Transfers In From FEMA Grants FHMG | 265,741 | 4,263,497 | 4,263,497 | 511,314 | - | 4,263,497 |
| 3910.137 | Transfers In EDA Grant | 1,056,645 | 503,571 | 503,571 | - | - | 503,571 |
| 3910.138 | Transfers In From USDA Fund | 48,900 | - | - | - | - | - |
| 3910.139 | Transfers In From FHWA Funds | 1,396,268 | 8,721,598 | 8,721,598 | - | 165,551 | 8,887,149 |
| 3910.280 | Transfers In From North Valley/Butte Strong | 37,236 | - | - | - | - | - |
| 3910.298 | Transfers In Grants Miscellaneous Federal | - | 615,000 | 615,000 | - | - | 615,000 |
| 3910.299 | Transfers In From Grants Misc One Time Fund | 73,975 | 134,816 | 134,816 | - | - | 134,816 |
| 3910.301 | Transfers In CDBG - DR | 376,417 | 4,027,284 | 4,027,284 | - | 21,449 | 4,048,733 |
| 3910.815 | Transfers In From General Misc Donations | 4,071 | - | - | - | - | - |
| Program Total: 4205 - Disaster RecoveryDepartment Total: 65 - Emergency Mngmt \& Disaster Recov |  | 3,421,332 | 19,734,712 | 20,307,153 | 511,314 | 187,000 | 20,494,153 |
|  |  | 3,421,332 | 19,734,712 | 20,307,153 | 511,314 | 187,000 | 20,494,153 |
|  | REVENUES Total | 3,421,332 | 19,734,712 | 20,307,153 | 511,314 | 187,000 | 20,494,153 |
| EXPENSES |  |  |  |  |  |  |  |
| Department: 65 - Emergency Mngmt \& Disaster Recov |  |  |  |  |  |  |  |
| Program: 4205 - Disaster Recovery |  |  |  |  |  |  |  |
| 7100 | Building Resource Center (BRC) | 12,236 | 50,000 | 50,000 | - | - | 50,000 |
| 7105 | Police Department Radios | 86,749 | - | - | - | - | - |
| 7106 | Portable and Mobile Police Radios | - | 711,400 | 711,400 | 718,944 | - | 711,400 |
| 7200 | Public Safety Power Shutoff Preparedness | 30,829 | 30,829 | 30,829 | - | - | 30,829 |
| 7301 | On-System Culvert Replacement | 652,748 | 122,856 | 122,856 | 139,483 | 37,000 | 159,856 |
| 7302 | On-System Hardscape Replacement | 552,629 | 10,000 | 10,000 | 138,875 | 150,000 | 160,000 |
| 7303 | On-System Road Rehabilitation | 418,498 | 9,840,586 | 9,840,586 | 5,148,376 | - | 9,840,586 |
| 7304 | On-System Sign Replacement | 18,236 | 274,200 | 274,200 | 2,979 | - | 274,200 |
| 7307 | Neal Road Rehabilitation | 41,956 | - | - | - | - | - |
| 7308 | Storm Drain Master Plan | 295,838 | - | - | 2,142 | - | - |
| 7309 | Transportation Master Plan | 1,056,645 | 503,571 | 503,571 | 70,201 | - | 503,571 |

## TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023



## TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023

| Account Number Account Description | FY 2021-22 Unaudited Actual Amount | FY 2022-23 <br> Adopted Budget | FY 2022-23 <br> Amended Budget | FY 2022-23 Actuals to Date | FY 2022-23 <br> Proposed Amendments | $\begin{gathered} \text { FY 2022-23 } \\ \text { Proposed } \\ \text { Amended Budget } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5106.100 Incentives \& Admin Leave Administrative Leave | 882 | 1,696 | 1,717 | - | - | 1,717 |
| 5106.200 Incentives \& Admin Leave Gym Reimbursement | - | - | - | 6 | - | - |
| 5107 Car Allowance/Mileage | 48 | 48 | 48 | 28 | - | 48 |
| 5109.101 Allowances Boot Allowance | 10 | 20 | 20 | 70 | - | 20 |
| 5111 Medicare | 400 | 634 | 642 | 294 | - | 642 |
| 5112.101 GASB 68 - Pension Expense PERS | 5,124 | 8,110 | 8,232 | 6,373 | - | 8,232 |
| 5113 Worker's Compensation | 1,099 | 6,966 | 7,069 | 3,463 | - | 7,069 |
| 5114.101 Health Insurance Medical | 1,898 | 4,502 | 4,502 | 1,682 | - | 4,502 |
| 5114.102 Health Insurance Dental | 196 | - | - | 151 | - | - |
| 5114.103 Health Insurance Vision | 16 | - | - | 12 | - | - |
| 5115 Unemployment Compensation | - | - | - | 137 | - | - |
| 5116.101 Life and Disability Insurance Life \& Disab. | 65 | 387 | 415 | 50 | - | 415 |
| 5116.102 Life and Disability Insurance Long Term/Short Term | 259 | - | - | 217 | - | - |
| 5216.100 Communications General Services | 173 | 105 | 105 | 116 | - | 105 |
| 5910.010 Transfers Out To General Fund | 5,091 | 7,568 | 7,568 | - | - | 7,568 |
| 5910.100 Transfers Out To Capital Projects | 196,416 | 676,099 | 776,099 | 298,928 | - | 776,099 |
| Program Total: 4743 - Streets and Roads | 238,225 | 748,110 | 848,894 | 331,478 | - | 848,894 |
| Department Total: 45 - Public Works | 238,225 | 748,110 | 848,894 | 331,478 | - | 848,894 |
| EXPENSES Total | 245,259 | 810,792 | 911,576 | 331,478 | - | 911,576 |
| Fund REVENUE Total: 2110 - Transportation Fund | 240,176 | 760,360 | 860,360 | 331,478 | - | 860,360 |
| Fund EXPENSE Total: 2110 - Transportation Fund | 245,259 | 810,792 | 911,576 | 331,478 | - | 911,576 |
| Fund Total: 2110-Transportation Fund | $(5,082)$ | $(50,432)$ | $(51,216)$ | - | - | $(51,216)$ |
| Fund: 2112 - Fed CMAQ Congest Mgmt Air Qual |  |  |  |  |  |  |
| REVENUES |  |  |  |  |  |  |
| Department: 00 - Non Department Activity |  |  |  |  |  |  |
| Program: $\mathbf{0 0 0 0}$ - Non Program Activity |  |  |  |  |  |  |
| 3310.200 Federal Funding CIP Funding | 1,213,132 | 742,097 | 742,097 | - | - | 742,097 |
| Program Total: 0000 - Non Program Activity | 1,213,132 | 742,097 | 742,097 | - | - | 742,097 |
| Department Total: 00 - Non Department Activity | 1,213,132 | 742,097 | 742,097 | - | - | 742,097 |
| REVENUES Total | 1,213,132 | 742,097 | 742,097 | - | - | 742,097 |
| EXPENSES |  |  |  |  |  |  |
| Department: 00 - Non Department Activity |  |  |  |  |  |  |
| Program: $\mathbf{0 0 0 0}$ - Non Program Activity |  |  |  |  |  |  |
| 5910.100 Transfers Out To Capital Projects | 1,180,929 | 714,894 | 714,894 | - | - | 714,894 |
| 5910.120 Transfers Out To State Gas Tax Fund | 32,203 | 27,203 | 27,203 | - | - | 27,203 |
| Program Total: 0000 - Non Program Activity | 1,213,132 | 742,097 | 742,097 | - | - | 742,097 |
| Department Total: 00 - Non Department Activity | 1,213,132 | 742,097 | 742,097 | - | - | 742,097 |

## TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023



EXPENSES
Department: 45 - Public Works
Program: 4750 - Public Works - Streets Maint.

TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023

| Account Number | Account Description | FY 2021-22 Unaudited Actual Amount | FY 2022-23 <br> Adopted Budget | FY 2022-23 <br> Amended Budget | FY 2022-23 Actuals to Date | FY 2022-23 <br> Proposed Amendments | FY 2022-23 Proposed Amended Budget |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5101 | Salaries - Permanent | 563,602 | 736,400 | 854,374 | 351,587 | 16,800 | 871,174 |
| 5103.101 | Differential Pay On Call | 23,755 | 23,500 | 23,500 | 12,978 | - | 23,500 |
| 5103.102 | Differential Pay Out of Class | 556 | 750 | 750 | 328 | - | 750 |
| 5105 | Salaries - Overtime/FLSA | 8,843 | 8,450 | 8,450 | 12,472 | - | 8,450 |
| 5106.100 | Incentives \& Admin Leave Administrative Leave | 11,927 | 17,381 | 22,082 | - | - | 22,082 |
| 5106.200 | Incentives \& Admin Leave Gym Reimbursement | - | 360 | 360 | 54 | - | 360 |
| 5107 | Car Allowance/Mileage | 1,388 | 1,392 | 1,392 | 786 | - | 1,392 |
| 5109.101 | Allowances Boot Allowance | 3,291 | 3,420 | 3,520 | 4,005 | - | 3,520 |
| 5111 | Medicare | 8,651 | 11,448 | 13,228 | 5,403 | - | 13,228 |
| 5112.101 | GASB 68 - Pension Expense PERS | 114,456 | 143,910 | 172,624 | 111,387 | - | 172,624 |
| 5113 | Worker's Compensation | 96,592 | 132,203 | 144,894 | 65,726 | - | 144,894 |
| 5114.101 | Health Insurance Medical | 53,933 | 92,735 | 109,636 | 36,626 | - | 109,636 |
| 5114.102 | Health Insurance Dental | 6,358 | - | - | 4,140 | - | - |
| 5114.103 | Health Insurance Vision | 589 | - | - | 363 | - | - |
| 5115 | Unemployment Compensation | - | - | - | 2,525 | - | - |
| 5116.101 | Life and Disability Insurance Life \& Disab. | 1,935 | 8,557 | 10,166 | 1,218 | - | 10,166 |
| 5116.102 | Life and Disability Insurance Long Term/Short Term Disability | 3,779 | - | - | 2,622 | - | - |
| 5119.100 | Retiree Costs Medical Insurance | 21,367 | 22,307 | 22,307 | 11,128 | - | 22,307 |
| 5201.100 | Office Supplies General | 281 | 300 | 300 | 596 | - | 300 |
| 5202.100 | Operating Supplies General | 11,485 | 4,250 | 4,250 | 4,173 | 4,000 | 8,250 |
| 5203.100 | Repairs and Maint Supplies General | 94,668 | 94,000 | 94,000 | 77,728 | 70,000 | 164,000 |
| 5209.101 | Auto Fuel Expense Town Vehicles | 32,711 | 27,500 | 27,500 | 16,160 | - | 27,500 |
| 5211.135 | Utilities Water and Sewer | 264 | 264 | 264 | 426 | - | 264 |
| 5211.137 | Utilities Electric and Gas | 41,467 | 34,800 | 34,800 | 22,273 | - | 34,800 |
| 5213.100 | Professional/Contract Services General | 23,553 | 16,500 | 16,500 | 4,736 | - | 16,500 |
| 5214.100 | Repair and Maint Service General | 111,622 | 94,800 | 94,800 | 46,603 | - | 94,800 |
| 5215.100 | Rents and Leases Miscellaneous | 8,412 | 8,000 | 8,000 | 3,631 | - | 8,000 |
| 5215.131 | Rents and Leases Street Maintenance Equipment | 69,959 | 5,000 | 5,000 | 17,961 | 15,500 | 20,500 |
| 5216.100 | Communications General Services | 5,920 | 43,034 | 43,034 | 3,065 | - | 43,034 |
| 5218.100 | Advertising General | 123 | 100 | 100 | 163 | - | 100 |
| 5220.100 | Employee Development General | 5,084 | 5,000 | 5,000 | 4,099 | - | 5,000 |
| 5223.101 | Meals and Refreshments Employee Meals-MOU Overtime | 585 | 500 | 500 | 210 | - | 500 |
| 5223.105 | Meals and Refreshments Emergencies and Meetings | - | - | - | 30 | - | - |
| 5304 | Furniture \& Equipment | 156,573 | 20,500 | 20,500 | 113,919 | - | 20,500 |
| 5305 | Vehicles | 307,682 | - | 300,000 | - | - | 300,000 |
| 5501 | Debt Service Payment - Principal | 8,376 | 5,367 | 5,367 | 3,757 | 5,700 | 11,067 |

## TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023

| Account Number Account Description | FY 2021-22 Unaudited Actual Amount | FY 2022-23 <br> Adopted Budget | FY 2022-23 <br> Amended Budget | FY 2022-23 <br> Actuals to Date | FY 2022-23 Proposed Amendments | FY 2022-23 Proposed Amended Budget |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5910.010 Transfers Out To General Fund | 353,824 | 225,147 | 225,147 | - | - | 225,147 |
| 5910.100 Transfers Out To Capital Projects | - | - | 60,000 | - | - | 60,000 |
| Program Total: 4750 - Public Works - Streets Maint. | 2,153,613 | 1,787,875 | 2,332,345 | 942,877 | 112,000 | 2,444,345 |
| Department Total: 45 - Public Works | 2,153,613 | 1,787,875 | 2,332,345 | 942,877 | 112,000 | 2,444,345 |
| EXPENSES Total | 2,153,613 | 1,787,875 | 2,332,345 | 942,877 | 112,000 | 2,444,345 |
| Fund REVENUE Total: 2120 - State Gas Tax | 2,450,856 | 1,787,875 | 2,272,345 | 105,792 | 25,500 | 2,297,845 |
| Fund EXPENSE Total: 2120 - State Gas Tax | 2,153,613 | 1,787,875 | 2,332,345 | 942,877 | 112,000 | 2,444,345 |
| Fund Total: 2120 - State Gas Tax | 297,243 | - | $(60,000)$ | $(837,085)$ | $(86,500)$ | $(146,500)$ |
| Fund: 2130 - State Water Board Prop 1 Grant |  |  |  |  |  |  |
| REVENUES |  |  |  |  |  |  |
| Department: 00 - Non Department Activity |  |  |  |  |  |  |
| Program: 0000 - Non Program Activity |  |  |  |  |  |  |
| 3340.200 State Funding - Grants CIP Funding | 1,041,821 | 883,244 | 883,244 | - | 350,000 | 1,233,244 |
| Program Total: 0000 - Non Program Activity | 1,041,821 | 883,244 | 883,244 | - | 350,000 | 1,233,244 |
| Department Total: 00 - Non Department Activity | 1,041,821 | 883,244 | 883,244 | - | 350,000 | 1,233,244 |
| REVENUES Total | 1,041,821 | 883,244 | 883,244 | - | 350,000 | 1,233,244 |
| EXPENSES |  |  |  |  |  |  |
| Department: 00 - Non Department Activity |  |  |  |  |  |  |
| Program: 0000 - Non Program Activity |  |  |  |  |  |  |
| 5910.010 Transfers Out To General Fund | 361 | - | - | - | - | - |
| 5910.030 Transfers Out To Development Services Fund | 14,351 | - | - | - | - | - |
| 5910.100 Transfers Out To Capital Projects | 896,593 | 303,782 | 303,782 | - | 350,000 | 653,782 |
| 5910.105 Transfers Out To Camp Fire Recovery Projects | 47,499 | 492,546 | 492,546 | - | - | 492,546 |
| 5910.120 Transfers Out To State Gas Tax Fund | 67,949 | 76,916 | 76,916 | - | - | 76,916 |
| 5910.160 Transfers Out To BHS Development Svcs Fund | 15,068 | 10,000 | 10,000 | - | - | 10,000 |
| Program Total: 0000 - Non Program Activity | 1,041,821 | 883,244 | 883,244 | - | 350,000 | 1,233,244 |
| Department Total: 00 - Non Department Activity | 1,041,821 | 883,244 | 883,244 | - | 350,000 | 1,233,244 |
| EXPENSES Total | 1,041,821 | 883,244 | 883,244 | - | 350,000 | 1,233,244 |
| Fund REVENUE Total: 2130 - State Water Board Prop 1 Grant | 1,041,821 | 883,244 | 883,244 | - | 350,000 | 1,233,244 |
| Fund EXPENSE Total: 2130 - State Water Board Prop 1 Grant | 1,041,821 | 883,244 | 883,244 | - | 350,000 | 1,233,244 |
| Fund Total: 2130 - State Water Board Prop 1 Grant | - | - | - | - | - | - |
| Fund: 2132 - HSIP Highway Safety Imp Prog. |  |  |  |  |  |  |
| REVENUES |  |  |  |  |  |  |
| Department: 00 - Non Department Activity |  |  |  |  |  |  |
| Program: 0000 - Non Program Activity |  |  |  |  |  |  |
| $3310.200 \quad$ Federal Funding CIP Funding | 35,467 | 45,764 | 45,764 | - | - | 45,764 |
| Program Total: 0000 - Non Program Activity | 35,467 | 45,764 | 45,764 | - | - | 45,764 |

## TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023



[^24]
## TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023

| Account Number Account Description | FY 2021-22 Unaudited Actual Amount | FY 2022-23 <br> Adopted Budget | FY 2022-23 <br> Amended Budget | FY 2022-23 Actuals to Date | FY 2022-23 <br> Proposed Amendments | FY 2022-23 <br> Proposed Amended Budget |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $3320.100 \quad$Federal Revenue - Other Refunds and <br> Reimbursements | 805,372 | - | - | 183,960 | - | - |
| 3610.100 Interest Revenue Investments | 348 | - | - | - | - | - |
| Program Total: 0000 - Non Program Activity | 805,720 | - |  | 183,960 |  | - |
| Department Total: 00 - Non Department Activity | 805,720 | - | - | 183,960 | - | - |
| REVENUES Total | 805,720 | - |  | 183,960 |  |  |
| EXPENSES |  |  |  |  |  |  |
| Department: 00 - Non Department Activity |  |  |  |  |  |  |
| Program: 0000 - Non Program Activity |  |  |  |  |  |  |
| 5910.010 Transfers Out To General Fund | 805,372 | - | - | - | - | - |
| Program Total: 0000 - Non Program Activity | 805,372 | - | - |  | - | - |
| Department Total: 00 - Non Department Activity | 805,372 | - | - | - | - |  |
| EXPENSES Total | 805,372 | - | - |  | - |  |
| Fund REVENUE Total: 2135 - FEMA Reimb Fund SAFER | 805,720 | - | - | 183,960 | - | - |
| Fund EXPENSE Total: 2135 - FEMA Reimb Fund SAFER | 805,372 | - | - | - | - | - |
| Fund Total: $\mathbf{2 1 3 5 - F E M A}$ Reimb Fund SAFER | 348 | - |  | 183,960 |  |  |
| Fund: 2136 - FEMA Grants FHMG |  |  |  |  |  |  |
| REVENuES |  |  |  |  |  |  |
| Department: 00 - Non Department Activity |  |  |  |  |  |  |
| Program: 0000 - Non Program Activity |  |  |  |  |  |  |
| 3310.099 Federal Funding Federal Grants | 358,251 | 4,639,685 | 4,639,685 | 511,314 | - | 4,639,685 |
| Program Total: 0000 - Non Program Activity | 358,251 | 4,639,685 | 4,639,685 | 511,314 | - | 4,639,685 |
| Department Total: 00 - Non Department Activity | 358,251 | 4,639,685 | 4,639,685 | 511,314 |  | 4,639,685 |
| REVENUES Total | 358,251 | 4,639,685 | 4,639,685 | 511,314 | - | 4,639,685 |
| EXPENSES |  |  |  |  |  |  |
| Department: 00 - Non Department Activity |  |  |  |  |  |  |
| Program: 0000 - Non Program Activity |  |  |  |  |  |  |
| 5910.090 Transfers Out To Camp Fire 2018 Recovery | 76,749 | 376,188 | 376,188 | - | - | 376,188 |
| 5910.105 Transfers Out To Camp Fire Recovery Projects | 265,741 | 4,263,497 | 4,263,497 | 511,314 | - | 4,263,497 |
| 5910.120 Transfers Out To State Gas Tax Fund | 15,695 | - | - |  | - | - |
| 5910.160 Transfers Out To BHS Development Svcs Fund | 67 | - | - |  | - | - |
| Program Total: 0000 - Non Program Activity | 358,251 | 4,639,685 | 4,639,685 | 511,314 | - | 4,639,685 |
| Department Total: 00 - Non Department Activity | 358,251 | 4,639,685 | 4,639,685 | 511,314 | - | 4,639,685 |
| EXPENSES Total | 358,251 | 4,639,685 | 4,639,685 | 511,314 | - | 4,639,685 |
| Fund REVENUE Total: 2136 - FEMA Grants FHMG | 358,251 | 4,639,685 | 4,639,685 | 511,314 | - | 4,639,685 |
| Fund EXPENSE Total: 2136 - FEMA Grants FHMG | 358,251 | 4,639,685 | 4,639,685 | 511,314 | - | 4,639,685 |
| Fund Total: $\mathbf{2 1 3 6 - F E M A ~ G r a n t s ~ F H M G ~}$ | - | - | - |  | - | - |

## TOWN OF PARADISE <br> Budget Worksheet Report as of January 30, 2023

| Account Number Account Description | FY 2021-22 Unaudited Actual Amount | FY 2022-23 Adopted Budget | FY 2022-23 Amended Budget | FY 2022-23 <br> Actuals to Date | FY 2022-23 <br> Proposed Amendments | $\begin{gathered} \text { FY 2022-23 } \\ \text { Proposed } \\ \text { Amended Budget } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Fund: 2137 - Economic Development Admin (EDA) |  |  |  |  |  |  |
| REVENUES |  |  |  |  |  |  |
| Department: 65 - Emergency Mngmt \& Disaster Recov |  |  |  |  |  |  |
| Program: 4205 - Disaster Recovery |  |  |  |  |  |  |
| 3310.099 Federal Funding Federal Grants | 1,236,964 | 534,103 | 534,103 | - | - | 534,103 |
| Program Total: 4205 - Disaster Recovery | 1,236,964 | 534,103 | 534,103 | - | - | 534,103 |
| Department Total: 65 - Emergency Mngmt \& Disaster Recov | 1,236,964 | 534,103 | 534,103 | - | - | 534,103 |
| REVENUES Total | 1,236,964 | 534,103 | 534,103 | - | - | 534,103 |
| EXPENSES |  |  |  |  |  |  |
| Department: 65 - Emergency Mngmt \& Disaster Recov |  |  |  |  |  |  |
| Program: 4205 - Disaster Recovery |  |  |  |  |  |  |
| 5910.090 Transfers Out To Camp Fire 2018 Recovery | 128,068 | - | - | - | - | - |
| 5910.105 Transfers Out To Camp Fire Recovery Projects | 1,056,645 | 503,571 | 503,571 | - | - | 503,571 |
| 5910.120 Transfers Out To State Gas Tax Fund | 52,251 | 30,532 | 30,532 | - | - | 30,532 |
| Program Total: 4205 - Disaster Recovery | 1,236,964 | 534,103 | 534,103 | - | - | 534,103 |
| Department Total: 65 - Emergency Mngmt \& Disaster Recov | 1,236,964 | 534,103 | 534,103 | - | - | 534,103 |
| EXPENSES Total | 1,236,964 | 534,103 | 534,103 | - | - | 534,103 |
| Fund REVENUE Total: 2137 - Economic Development Admin (EDA) | 1,236,964 | 534,103 | 534,103 | - | - | 534,103 |
| Fund EXPENSE Total: 2137 - Economic Development Admin (EDA) | 1,236,964 | 534,103 | 534,103 | - | - | 534,103 |
| Fund Total: 2137 - Economic Development Admin (EDA) | - | - | - | - | - | - |
| Fund: 2138 - USDA |  |  |  |  |  |  |
| REVENUES |  |  |  |  |  |  |
| Department: $\mathbf{0 0}$ - Non Department Activity |  |  |  |  |  |  |
| Program: 0000 - Non Program Activity |  |  |  |  |  |  |
| 3310.099 Federal Funding Federal Grants | 348,900 | 131,500 | 321,000 | - | - | 321,000 |
| Program Total: 0000 - Non Program Activity | 348,900 | 131,500 | 321,000 | - | - | 321,000 |
| Department Total: 00 - Non Department Activity | 348,900 | 131,500 | 321,000 | - | - | 321,000 |
| REVENUES Total | 348,900 | 131,500 | 321,000 | - | - | 321,000 |
| EXPENSES |  |  |  |  |  |  |
| Department: 00 - Non Department Activity |  |  |  |  |  |  |
| Program: 0000 - Non Program Activity |  |  |  |  |  |  |
| 5910.010 Transfers Out To General Fund | 3,148 | 70,500 | 104,000 | - | - | 104,000 |
| 5910.070 Transfers Out To Animal Control Fund | 46,852 | 61,000 | 61,000 | - | - | 61,000 |
| 5910.105 Transfers Out To Camp Fire Recovery Projects | 48,900 | - | - | - | - | - |
| 5910.120 Transfers Out To State Gas Tax Fund | 250,000 | - | 156,000 | - | - | 156,000 |
| Program Total: 0000 - Non Program Activity | 348,900 | 131,500 | 321,000 | - | - | 321,000 |
| Department Total: 00 - Non Department Activity | 348,900 | 131,500 | 321,000 | - | - | 321,000 |

## TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023



## TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023

| Account Number |  | Account Description | FY 2021-22 Unaudited Actual Amount | FY 2022-23 <br> Adopted Budget | FY 2022-23 <br> Amended Budget | FY 2022-23 <br> Actuals to Date | FY 2022-23 <br> Proposed Amendments | FY 2022-23 Proposed Amended Budget |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3910.420 |  | Transfers In From 2020 CalHome DA Grant | 349,588 | 358,390 | 358,390 | - | 20,000 | 378,390 |
|  |  | gram Total: 4800 - Development Services | 449,473 | 485,890 | 485,890 | 150 | 20,000 | 505,890 |
|  | Department | t Total: 55 - Business \& Housing Services | 449,473 | 485,890 | 485,890 | 150 | 20,000 | 505,890 |
|  |  | REVENUES Total | 449,473 | 485,890 | 485,890 | 150 | 20,000 | 505,890 |
| EXPENSES |  |  |  |  |  |  |  |  |
| Department: 55-Business \& Housing Services |  |  |  |  |  |  |  |  |
| Program: 4800-Development Services |  |  |  |  |  |  |  |  |
| 5101 |  | Salaries - Permanent | 255,739 | 270,688 | 270,688 | 145,846 | - | 270,688 |
| 5105 |  | Salaries - Overtime/FLSA | 389 | - | - | - | - | - |
| 5106.100 |  | Incentives \& Admin Leave Administrative Leave | 5,351 | 5,575 | 5,575 | - | - | 5,575 |
| 5106.200 |  | Incentives \& Admin Leave Gym Reimbursement | - | - | - | 120 | - | - |
| 5107 |  | Car Allowance/Mileage | 116 | 120 | 120 | 44 | - | 120 |
| 5111 |  | Medicare | 3,658 | 3,982 | 3,982 | 2,022 | - | 3,982 |
| 5112.101 |  | GASB 68 - Pension Expense PERS | 51,896 | 53,216 | 53,216 | 41,998 | - | 53,216 |
| 5113 |  | Worker's Compensation | 1,741 | 1,408 | 1,408 | 700 | - | 1,408 |
| 5114.101 |  | Health Insurance Medical | 33,230 | 43,422 | 43,422 | 21,617 | - | 43,422 |
| 5114.102 |  | Health Insurance Dental | 4,517 | - | - | 2,732 | - | - |
| 5114.103 |  | Health Insurance Vision | 323 | - | - | 189 | - | - |
| 5115 |  | Unemployment Compensation | - | - | - | 954 | - | - |
| 5116.101 |  | Life and Disability Insurance Life \& Disab. | 805 | 3,070 | 3,070 | 468 | - | 3,070 |
| 5116.102 |  | Life and Disability Insurance Long Term/Short Term Disability | 424 | - | - | 353 | - | - |
| 5199.130 |  | Other Payroll Expenses Interfund Payroll Transfers | $(29,369)$ | $(82,880)$ | $(82,880)$ | - | - | $(82,880)$ |
| 5201.100 |  | Office Supplies General | 256 | 1,000 | 1,000 | 186 | - | 1,000 |
| 5202.100 |  | Operating Supplies General | 312 | 1,500 | 1,500 | 116 | - | 1,500 |
| 5209.105 |  | Auto Fuel Expense Employee Personal Vehicle Use | 71 | 500 | 500 | - | - | 500 |
| 5210.100 |  | Postage General | 332 | 400 | 400 | 126 | - | 400 |
| 5213.100 |  | Professional/Contract Services General | 68,937 | 30,000 | 30,000 | 24,069 | 20,000 | 50,000 |
| 5214.100 |  | Repair and Maint Service General | 1,500 | 1,500 | 1,500 | - | - | 1,500 |
| 5218.100 |  | Advertising General | 114 | - | - | 90 | - | - |
| 5219.100 |  | Printing General | 48 | 300 | 300 | (5) | - | 300 |
| 5910.010 |  | Transfers Out To General Fund | 76,274 | 73,096 | 73,096 | - | - | 73,096 |
|  | Progr | gram Total: 4800 - Development Services | 476,664 | 406,897 | 406,897 | 241,624 | 20,000 | 426,897 |
|  | Department | t Total: 55 - Business \& Housing Services | 476,664 | 406,897 | 406,897 | 241,624 | 20,000 | 426,897 |
|  |  | EXPENSES Total | 476,664 | 406,897 | 406,897 | 241,624 | 20,000 | 426,897 |
|  | Fund REVENUE | Total: 2160 - Business \& Housing Services | 449,473 | 485,890 | 485,890 | 150 | 20,000 | 505,890 |
|  | Fund EXPENSE | Total: 2160 - Business \& Housing Services | 476,664 | 406,897 | 406,897 | 241,624 | 20,000 | 426,897 |

## TOWN OF PARADISE <br> Budget Worksheet Report as of January 30, 2023

| Account Number Account Description | FY 2021-22 Unaudited Actual Amount | FY 2022-23 Adopted Budget | FY 2022-23 <br> Amended Budget | FY 2022-23 <br> Actuals to Date | FY 2022-23 Proposed Amendments | FY 2022-23 Proposed Amended Budget |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Fund Total: 2160 - Business \& Housing Services | $(27,191)$ | 78,993 | 78,993 | $(241,474)$ | - | 78,993 |
| Fund: 2161 - BHS HUD Loan Fund |  |  |  |  |  |  |
| REVENUES |  |  |  |  |  |  |
| Department: 55-Business \& Housing Services |  |  |  |  |  |  |
| Program: 0000 - Non Program Activity |  |  |  |  |  |  |
| 3610.100 Interest Revenue Investments | 90 | - | - | - | - | - |
| 3905.001 BHS Loan Payments Program Income | 4,590 | - | - | 52,362 | - | - |
| Program Total: 0000 - Non Program Activity | 4,680 | - | - | 52,362 | - |  |
| Department Total: 55 - Business \& Housing Services | 4,680 | - | - | 52,362 | - | - |
| REVENUES Total | 4,680 | - | - | 52,362 | - |  |
| EXPENSES |  |  |  |  |  |  |
| Department: $55-$ Business \& Housing Services |  |  |  |  |  |  |
| Program: 0000 - Non Program Activity |  |  |  |  |  |  |
| 5213.100 Professional/Contract Services General | 14,338 | - | - | 120 | - | - |
| 5910.100 Transfers Out To Capital Projects | - | 126,957 | 126,957 | - | - | 126,957 |
| 5910.160 Transfers Out To BHS Development Svcs Fund | 1,257 | - | - | - | - |  |
| Program Total: 0000 - Non Program Activity | 15,595 | 126,957 | 126,957 | 120 | - | 126,957 |
| Department Total: 55 - Business \& Housing Services | 15,595 | 126,957 | 126,957 | 120 | - | 126,957 |
| EXPENSES Total | 15,595 | 126,957 | 126,957 | 120 | - | 126,957 |
| Fund REVENUE Total: 2161 - BHS HUD Loan Fund | 4,680 | - | - | 52,362 | - | - |
| Fund EXPENSE Total: 2161 - BHS HUD Loan Fund | 15,595 | 126,957 | 126,957 | 120 | - | 126,957 |
| Fund Total: $\mathbf{2 1 6 1 - B H S ~ H U D ~ L o a n ~ F u n d ~}$ | $(10,915)$ | $(126,957)$ | $(126,957)$ | 52,242 | - | $(126,957)$ |
| Fund: 2162 - BHS Home Loan Fund |  |  |  |  |  |  |
| REVENUES |  |  |  |  |  |  |
| Department: 55-Business \& Housing Services |  |  |  |  |  |  |
| Program: 0000 - Non Program Activity |  |  |  |  |  |  |
| 3610.100 Interest Revenue Investments | 1,489 | - | - | - | - | - |
| 3905.001 BHS Loan Payments Program Income | 232,235 | 40,000 | 40,000 | 33,751 | - | 40,000 |
| 3905.002 BHS Loan Payments Recapture Income | - | 40,000 | 40,000 | - | - | 40,000 |
| Program Total: 0000 - Non Program Activity | 233,724 | 80,000 | 80,000 | 33,751 | - | 80,000 |
| Department Total: 55 - Business \& Housing Services | 233,724 | 80,000 | 80,000 | 33,751 | - | 80,000 |
| REVENUES Total | 233,724 | 80,000 | 80,000 | 33,751 | - | 80,000 |
| EXPENSES |  |  |  |  |  |  |
| Department: $55-$ Business \& Housing Services |  |  |  |  |  |  |
| Program: 0000 - Non Program Activity |  |  |  |  |  |  |
| 5910.160 Transfers Out To BHS Development Svcs Fund | 19,009 | 35,000 | 35,000 | - | - | 35,000 |
| Program Total: 0000 - Non Program Activity | 19,009 | 35,000 | 35,000 | - | - | 35,000 |

## TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023

| Account Number Account Description | FY 2021-22 Unaudited Actual Amount | FY 2022-23 <br> Adopted Budget | FY 2022-23 <br> Amended Budget | FY 2022-23 <br> Actuals to Date | FY 2022-23 <br> Proposed Amendments | FY 2022-23 Proposed Amended Budget |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Program: 4802 - Rebuild with Held Funds |  |  |  |  |  |  |
| 5290.290 Loan Programs BHS Loans | $(32,302)$ | 40,000 | 40,000 | - | - | 40,000 |
| Program Total: 4802 - Rebuild with Held Funds | $(32,302)$ | 40,000 | 40,000 | - | - | 40,000 |
| Program: 4808 - First Time Home Buyer Program |  |  |  |  |  |  |
| 5290.290 Loan Programs BHS Loans | 80,000 | 40,000 | 40,000 | 126,850 | - | 40,000 |
| Program Total: 4808 - First Time Home Buyer Program | 80,000 | 40,000 | 40,000 | 126,850 | - | 40,000 |
| Department Total: 55 - Business \& Housing Services | 66,707 | 115,000 | 115,000 | 126,850 | - | 115,000 |
| EXPENSES Total | 66,707 | 115,000 | 115,000 | 126,850 | - | 115,000 |
| Fund REVENUE Total: 2162 - BHS Home Loan Fund | 233,724 | 80,000 | 80,000 | 33,751 | - | 80,000 |
| Fund EXPENSE Total: 2162 - BHS Home Loan Fund | 66,707 | 115,000 | 115,000 | 126,850 | - | 115,000 |
| Fund Total: $\mathbf{2 1 6 2 - B H S ~ H o m e ~ L o a n ~ F u n d ~}$ | 167,017 | $(35,000)$ | $(35,000)$ | $(93,099)$ | - | $(35,000)$ |
| Fund: 2163 - BHS CAL-HOME Loan Fund |  |  |  |  |  |  |
| REVENUES |  |  |  |  |  |  |
| Department: $55-$ Business \& Housing Services |  |  |  |  |  |  |
| Program: 0000 - Non Program Activity |  |  |  |  |  |  |
| 3610.100 Interest Revenue Investments | 768 | - | - | - | - | - |
| 3905.001 BHS Loan Payments Program Income | 198,257 | 50,000 | 50,000 | 52,230 | - | 50,000 |
| Program Total: 0000 - Non Program Activity | 199,025 | 50,000 | 50,000 | 52,230 | - | 50,000 |
| Department Total: 55 - Business \& Housing Services | 199,025 | 50,000 | 50,000 | 52,230 | - | 50,000 |
| REVENUES Total | 199,025 | 50,000 | 50,000 | 52,230 | - | 50,000 |
| EXPENSES |  |  |  |  |  |  |
| Department: $55-$ Business \& Housing Services |  |  |  |  |  |  |
| Program: 0000 - Non Program Activity |  |  |  |  |  |  |
| 5910.160 Transfers Out To BHS Development Svcs Fund | 33,195 | 22,500 | 22,500 | - | - | 22,500 |
| Program Total: 0000 - Non Program Activity | 33,195 | 22,500 | 22,500 | - | - | 22,500 |
| Program: 4805 - Housing Rehab |  |  |  |  |  |  |
| 5290.290 Loan Programs BHS Loans | 158,232 | 222,500 | 222,500 | 5,298 | - | 222,500 |
| Program Total: 4805 - Housing Rehab | 158,232 | 222,500 | 222,500 | 5,298 | - | 222,500 |
| Program: 4808 - First Time Home Buyer Program |  |  |  |  |  |  |
| 5290.290 Loan Programs BHS Loans | 80,000 | - | - | - | - | - |
| Program Total: 4808 - First Time Home Buyer Program | 80,000 | - | - | - | - | - |
| Department Total: $55-$ Business \& Housing Services | 271,427 | 245,000 | 245,000 | 5,298 | - | 245,000 |
| EXPENSES Total | 271,427 | 245,000 | 245,000 | 5,298 | - | 245,000 |
| Fund REVENUE Total: 2163 - BHS CAL-HOME Loan Fund | 199,025 | 50,000 | 50,000 | 52,230 | - | 50,000 |
| Fund EXPENSE Total: 2163 - BHS CAL-HOME Loan Fund | 271,427 | 245,000 | 245,000 | 5,298 | - | 245,000 |
| Fund Total: 2163 - BHS CAL-HOME Loan Fund | $(72,402)$ | $(195,000)$ | $(195,000)$ | 46,932 | - | $(195,000)$ |

[^25]
## TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023

| Account Number Account Description | FY 2021-22 Unaudited Actual Amount | FY 2022-23 <br> Adopted Budget | FY 2022-23 <br> Amended Budget | FY 2022-23 <br> Actuals to Date |
| :---: | :---: | :---: | :---: | :---: |
| REVENUES |  |  |  |  |
| Department: 30-Police |  |  |  |  |
| Program: 0000 - Non Program Activity |  |  |  |  |
| 3340.300 State Funding - Grants Police Grants | 161,301 | 170,000 | 170,000 | 116,923 |
| 3610.100 Interest Revenue Investments | 17 | - | - | - |
| Program Total: 0000 - Non Program Activity | 161,317 | 170,000 | 170,000 | 116,923 |
| Department Total: 30-Police | 161,317 | 170,000 | 170,000 | 116,923 |
| REVENUES Total | 161,317 | 170,000 | 170,000 | 116,923 |
| EXPENSES |  |  |  |  |
| Department: 30-Police |  |  |  |  |
| Program: 4520 - Police Operations |  |  |  |  |
| 5199.130 Other Payroll Expenses Interfund Payroll Transfers | 86,985 | 93,478 | 93,478 | - |
| 5501 Debt Service Payment - Principal | 24,064 | - | - | $(6,016)$ |
| Program Total: 4520 - Police Operations | 111,049 | 93,478 | 93,478 | $(6,016)$ |
| Program: 4530 - Public Safety Communications |  |  |  |  |
| 5199.130 Other Payroll Expenses Interfund Payroll Transfers | 61,358 | 66,785 | 66,785 | - |
| Program Total: 4530 - Public Safety Communications | 61,358 | 66,785 | 66,785 | - |
| Department Total: 30 - Police | 172,407 | 160,263 | 160,263 | $(6,016)$ |
| EXPENSES Total | 172,407 | 160,263 | 160,263 | $(6,016)$ |
| Fund REVENUE Total: 2204 - State SLESF Grant | 161,317 | 170,000 | 170,000 | 116,923 |
| Fund EXPENSE Total: 2204 - State SLESF Grant | 172,407 | 160,263 | 160,263 | $(6,016)$ |
| Fund Total: 2204 - State SLESF Grant | $(11,090)$ | 9,737 | 9,737 | 122,939 |
| Fund: 2297 - Grants Miscellaneous State |  |  |  |  |
| REVENUES |  |  |  |  |
| Department: 00 - Non Department Activity |  |  |  |  |
| Program: 0000 - Non Program Activity |  |  |  |  |
| 3340.401 State Funding - Grants LEAP Grant | 112,764 | - | - | 23,442 |
| Program Total: 0000 - Non Program Activity | 112,764 | - | - | 23,442 |
| Department Total: 00 - Non Department Activity | 112,764 | - | - | 23,442 |
| REVENUES Total | 112,764 | - | - | 23,442 |
| EXPENSES |  |  |  |  |
| Department: 00 - Non Department Activity |  |  |  |  |
| Program: 0000 - Non Program Activity |  |  |  |  |
| 5910.030 Transfers Out To Development Services Fund | 83,451 | - | - | 23,442 |
| 5910.160 Transfers Out To BHS Development Svcs Fund | 29,313 | - | - | - |
| Program Total: 0000 - Non Program Activity | 112,764 | - | - | 23,442 |


| FY 2022-23 | FY 2022-23 |
| :---: | :---: |
| Proposed | Proposed |
| Amendments | Amended Budget |

FY 2022-2
Proposed Proposed Amended Budget

| - | - |
| :---: | :---: |
| - | 170,000 |
| - | 170,000 |
| - | 170,000 |


| - | 93,478 |
| :---: | :---: |
| - | - |
| - | 93,478 |
| - | 66,785 |
| - | 66,785 |
| - | 160,263 |
| - | 160,263 |
| - | 170,000 |
| - | 160,263 |
| - | 9,737 |

$\qquad$

## TOWN OF PARADISE <br> Budget Worksheet Report as of January 30, 2023

| Account Number Account Description | FY 2021-22 <br> Unaudited Actual Amount | FY 2022-23 Adopted Budget | FY 2022-23 <br> Amended Budget | FY 2022-23 <br> Actuals to Date | FY 2022-23 <br> Proposed Amendments | FY 2022-23 Proposed Amended Budget |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Department Total: 00 - Non Department Activity | 112,764 | - | - | 23,442 | - | - |
| EXPENSES Total | 112,764 | - | - | 23,442 | - | - |
| Fund REVENUE Total: 2297 - Grants Miscellaneous State | 112,764 | - | - | 23,442 | - | - |
| Fund EXPENSE Total: 2297 - Grants Miscellaneous State | 112,764 | - | - | 23,442 | - | - |
| Fund Total: 2297 - Grants Miscellaneous State | - | - | - | - | - | - |
| Fund: 2298 - Grants Miscellaneous Federal |  |  |  |  |  |  |
| REVENUES |  |  |  |  |  |  |
| Department: 00 - Non Department Activity |  |  |  |  |  |  |
| Program: 0000 - Non Program Activity |  |  |  |  |  |  |
| 3310.099 Federal Funding Federal Grants | - | 615,000 | 615,000 | - | - | 615,000 |
| Program Total: 0000 - Non Program Activity | - | 615,000 | 615,000 | - | - | 615,000 |
| Department Total: 00 - Non Department Activity | - | 615,000 | 615,000 | - | - | 615,000 |
| REVENUES Total | - | 615,000 | 615,000 | - | - | 615,000 |
| EXPENSES |  |  |  |  |  |  |
| Department: 00 - Non Department Activity |  |  |  |  |  |  |
| Program: 0000 - Non Program Activity |  |  |  |  |  |  |
| 5910.105 Transfers Out To Camp Fire Recovery Projects | - | 615,000 | 615,000 | - | - | 615,000 |
| Program Total: 0000 - Non Program Activity | - | 615,000 | 615,000 | - | - | 615,000 |
| Department Total: 00 - Non Department Activity | - | 615,000 | 615,000 | - | - | 615,000 |
| EXPENSES Total | - | 615,000 | 615,000 | - | - | 615,000 |
| Fund REVENUE Total: 2298 - Grants Miscellaneous Federal | - | 615,000 | 615,000 | - | - | 615,000 |
| Fund EXPENSE Total: 2298 - Grants Miscellaneous Federal | - | 615,000 | 615,000 | - | - | 615,000 |
| Fund Total: 2298 - Grants Miscellaneous Federal | - | - | - |  | - | - |
| Fund: 2299 - Grants Miscellaneous One Time |  |  |  |  |  |  |
| REVENUES |  |  |  |  |  |  |
| Department: $\mathbf{0 0}$ - Non Department Activity |  |  |  |  |  |  |
| Program: 0000 - Non Program Activity |  |  |  |  |  |  |
| 3345.200 State Revenues - Other Miscellaneous | - | 134,816 | 134,816 | - | - | 134,816 |
| 3610.100 Interest Revenue Investments | 22 | - | - | - | - | - |
| 3650.100 Donations Private Sources | 73,975 | - | - | - | - | - |
| Program Total: 0000 - Non Program Activity | 73,997 | 134,816 | 134,816 | - | - | 134,816 |
| Department Total: 00 - Non Department Activity | 73,997 | 134,816 | 134,816 | - | - | 134,816 |
| REVENUES Total | 73,997 | 134,816 | 134,816 | - | - | 134,816 |
| EXPENSES |  |  |  |  |  |  |
| Department: 00 - Non Department Activity |  |  |  |  |  |  |
| Program: 0000 - Non Program Activity |  |  |  |  |  |  |
| 5910.105 Transfers Out To Camp Fire Recovery Projects | 73,975 | 134,816 | 134,816 | - | - | 134,816 |

## TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023



## TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023

| Account Number Account Description | FY 2021-22 Unaudited Actual Amount | FY 2022-23 Adopted Budget | FY 2022-23 <br> Amended Budget | FY 2022-23 <br> Actuals to Date | FY 2022-23 Proposed Amendments | FY 2022-23 Proposed Amended Budget |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Department Total: 65 - Emergency Mngmt \& Disaster Recov | 628,126 | 4,356,706 | 4,541,176 | - | 21,449 | 4,562,625 |
| EXPENSES Total | 750,728 | 4,616,706 | 4,801,176 | 71,952 | 21,449 | 4,822,625 |
| Fund REVENUE Total: 2301 - CDBG-DR | 122,602 | 5,467,993 | 5,467,993 | - | 21,449 | 5,489,442 |
| Fund EXPENSE Total: 2301 - CDBG-DR | 750,728 | 4,616,706 | 4,801,176 | 71,952 | 21,449 | 4,822,625 |
| Fund Total: 2301 - CDBG-DR | $(628,126)$ | 851,287 | 666,817 | $(71,952)$ | - | 666,817 |
| Fund: 2420 - BHS 2020 CalHome DA Grant |  |  |  |  |  |  |
| REVENUES |  |  |  |  |  |  |
| Department: $\quad 55$ - Business \& Housing Services Program: $\quad 0000$ - Non Program Activity |  |  |  |  |  |  |
| 3340.100 State Funding - Grants BHS State Reimbursements | 2,106,577 | 2,707,630 | 2,707,630 | - | 20,000 | 2,727,630 |
| Program Total: 0000 - Non Program Activity | 2,106,577 | 2,707,630 | 2,707,630 | - | 20,000 | 2,727,630 |
| Department Total: 55 - Business \& Housing Services | 2,106,577 | 2,707,630 | 2,707,630 | - | 20,000 | 2,727,630 |
| REVENUES Total | 2,106,577 | 2,707,630 | 2,707,630 | - | 20,000 | 2,727,630 |
| EXPENSES |  |  |  |  |  |  |
| Department: $55-$ Business \& Housing Services |  |  |  |  |  |  |
| Program: 0000 - Non Program Activity |  |  |  |  |  |  |
| 5910.160 Transfers Out To BHS Development Svcs Fund | 349,588 | - | - | - | - | - |
| Program Total: 0000 - Non Program Activity | 349,588 | - | - | - | - |  |
| Program: 4805 - Housing Rehab |  |  |  |  |  |  |
| 5290.290 Loan Programs BHS Loans | 2,144,797 | 2,250,000 | 2,250,000 | 1,265,898 | - | 2,250,000 |
| 5910.160 Transfers Out To BHS Development Svcs Fund | - | 358,390 | 358,390 | - | 20,000 | 378,390 |
| Program Total: 4805 - Housing Rehab | 2,144,797 | 2,608,390 | 2,608,390 | 1,265,898 | 20,000 | 2,628,390 |
| Program: 4808 - First Time Home Buyer Program |  |  |  |  |  |  |
| 5290.290 Loan Programs BHS Loans | - | - | - | 426,491 | - | - |
| Program Total: 4808 - First Time Home Buyer Program | - | - | - | 426,491 | - | - |
| Department Total: $55-$ Business \& Housing Services | 2,494,385 | 2,608,390 | 2,608,390 | 1,692,389 | 20,000 | 2,628,390 |
| EXPENSES Total | 2,494,385 | 2,608,390 | 2,608,390 | 1,692,389 | 20,000 | 2,628,390 |
| Fund REVENUE Total: 2420 - BHS 2020 CalHome DA Grant | 2,106,577 | 2,707,630 | 2,707,630 | - | 20,000 | 2,727,630 |
| Fund EXPENSE Total: 2420 - BHS 2020 CalHome DA Grant | 2,494,385 | 2,608,390 | 2,608,390 | 1,692,389 | 20,000 | 2,628,390 |
| Fund Total: $\mathbf{2 4 2 0 - B H S} \mathbf{2 0 2 0}$ CalHome DA Grant | $(387,807)$ | 99,240 | 99,240 | $(1,692,389)$ | - | 99,240 |
| Fund: 2510 - Impact Fees Road Improvements |  |  |  |  |  |  |
| REVENUES |  |  |  |  |  |  |
| Department: 45 - Public Works |  |  |  |  |  |  |
| Program: 0000 - Non Program Activity |  |  |  |  |  |  |
| 3405.100 Impact Fees Development Impact Fees | 13,940 | 14,000 | 14,000 | 7,985 | - | 14,000 |
| 3610.100 Interest Revenue Investments | 403 | 1,660 | 1,660 | - | - | 1,660 |

## TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023



| FY 2022-23 <br> Proposed <br> Amendments | FY 2022-23 <br> Proposed <br> Amended Budget |
| :---: | ---: |
| - | 15,660 |
| - | 15,660 |
| - | 15,660 |
| - | 15,660 |
|  |  |
| - | 15,660 |


| - | - |
| :---: | :---: |
| - | 1,150 |
| - | 1,150 |
| - | 1,150 |
| - | 1,150 |
| - | 1,150 |


| - | 25 |
| :---: | :---: |
| - | 25 |
| - | 25 |
| - | 25 |
| - | 25 |
| - | 25 |

## TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023

| Account Number Account Description | FY 2021-22 Unaudited Actual Amount | FY 2022-23 <br> Adopted Budget | FY 2022-23 <br> Amended Budget | FY 2022-23 <br> Actuals to Date | FY 2022-23 <br> Proposed Amendments | $\begin{gathered} \text { FY 2022-23 } \\ \text { Proposed } \\ \text { Amended Budget } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Department Total: 30 - Police | 2,192 | 2,500 | 2,500 | 1,261 | - | 2,500 |
| REVENUES Total | 2,192 | 2,500 | 2,500 | 1,261 | - | 2,500 |
| Fund REVENUE Total: 2540 - Impact Fees Police Facilities | 2,192 | 2,500 | 2,500 | 1,261 | - | 2,500 |
| Fund EXPENSE Total: 2540 - Impact Fees Police Facilities |  |  |  |  |  |  |
| Fund Total: 2540 - Impact Fees Police Facilities | 2,192 | 2,500 | 2,500 | 1,261 | - | 2,500 |
| Fund: 2550 - Impact Fees Fire Facilities |  |  |  |  |  |  |
| REVENUES |  |  |  |  |  |  |
| Department: 35 - Fire |  |  |  |  |  |  |
| Program: 0000 - Non Program Activity |  |  |  |  |  |  |
| 3405.100 Impact Fees Development Impact Fees | 1,897 | 2,000 | 2,000 | 929 | - | 2,000 |
| 3610.100 Interest Revenue Investments | 24 | 200 | 200 | - | - | 200 |
| Program Total: 0000 - Non Program Activity | 1,921 | 2,200 | 2,200 | 929 | - | 2,200 |
| Department Total: 35 - Fire | 1,921 | 2,200 | 2,200 | 929 | - | 2,200 |
| REVENUES Total | 1,921 | 2,200 | 2,200 | 929 | - | 2,200 |
| Fund ReVENUE Total: 2550 - Impact Fees Fire Facilities | 1,921 | 2,200 | 2,200 | 929 | - | 2,200 |
| Fund EXPENSE Total: 2550 - Impact Fees Fire Facilities |  |  |  |  |  |  |
| Fund Total: 2550 - Impact Fees Fire Facilities | 1,921 | 2,200 | 2,200 | 929 | - | 2,200 |
| Fund: 2551 - Impact Fees - Drainage |  |  |  |  |  |  |
| REVENUES |  |  |  |  |  |  |
| Department: 45 -Public Works |  |  |  |  |  |  |
| Program: 0000 - Non Program Activity |  |  |  |  |  |  |
| 3405.100 Impact Fees Development Impact Fees | 15,374 | 15,500 | 15,500 | 5,349 | - | 15,500 |
| 3610.100 Interest Revenue Investments | 454 | 1,500 | 1,500 | - | - | 1,500 |
| Program Total: 0000 - Non Program Activity | 15,828 | 17,000 | 17,000 | 5,349 | - | 17,000 |
| Department Total: 45 - Public Works | 15,828 | 17,000 | 17,000 | 5,349 | - | 17,000 |
| REVENUES Total | 15,828 | 17,000 | 17,000 | 5,349 | - | 17,000 |
| EXPENSES |  |  |  |  |  |  |
| Department: 45 - Public Works |  |  |  |  |  |  |
| Program: 0000 - Non Program Activity |  |  |  |  |  |  |
| 5910.100 Transfers Out To Capital Projects | - | - | 250,000 | - | - | 250,000 |
| Program Total: 0000 - Non Program Activity | - | - | 250,000 | - | - | 250,000 |
| Department Total: 45 - Public Works | - | - | 250,000 | - | - | 250,000 |
| EXPENSES Total | - | - | 250,000 | - | - | 250,000 |
| Fund REVENUE Total: 2551 - Impact Fees - Drainage | 15,828 | 17,000 | 17,000 | 5,349 | - | 17,000 |
| Fund EXPENSE Total: 2551 - Impact Fees - Drainage | - | - | 250,000 | - | - | 250,000 |
| Fund Total: 2551 - Impact Fees - Drainage | 15,828 | 17,000 | $(233,000)$ | 5,349 | - | $(233,000)$ |

## TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023

| Account Number Account Description | FY 2021-22 Unaudited Actual Amount | FY 2022-23 <br> Adopted Budget | FY 2022-23 <br> Amended Budget | FY 2022-23 <br> Actuals to Date | FY 2022-23 <br> Proposed Amendments | FY 2022-23 Proposed Amended Budget |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Fund: $\quad 2700$ - SB-2 Building Homes and Jobs Act |  |  |  |  |  |  |
| REVENUES |  |  |  |  |  |  |
| Department: $55-$ Business \& Housing Services |  |  |  |  |  |  |
| Program: 4800-Development Services |  |  |  |  |  |  |
| 3345.200 State Revenues - Other Miscellaneous | 15,050 | - | - | - | - |  |
| Program Total: 4800 - Development Services | 15,050 | - | - | - | - | - |
| Department Total: 55 - Business \& Housing Services | 15,050 | - | - | - | - |  |
| REVENUES Total | 15,050 | - | - | - | - |  |
| EXPENSES |  |  |  |  |  |  |
| Department: $55-$ Business \& Housing Services |  |  |  |  |  |  |
| Program: 4800-Development Services |  |  |  |  |  |  |
| 5213.100 Professional/Contract Services General | 15,050 | - | - | 6,959 | - |  |
| Program Total: 4800 - Development Services | 15,050 | - | - | 6,959 | - |  |
| Department Total: $55-$ Business \& Housing Services | 15,050 | - | - | 6,959 | - |  |
| EXPENSES Total | 15,050 | - | - | 6,959 | - |  |
| Fund REVENUE Total: 2700 - SB-2 Building Homes and Jobs Act | 15,050 | - | - | - | - | - |
| Fund EXPENSE Total: 2700 - SB-2 Building Homes and Jobs Act | 15,050 | - | - | 6,959 | - | - |
| Fund Total: 2700-SB-2 Building Homes and Jobs Act | - | - | - | $(6,959)$ | - | - |
| Fund: 2924 - RDA Obligation Retirement Fund |  |  |  |  |  |  |
| REVENUES |  |  |  |  |  |  |
| Department: 60 -RDA |  |  |  |  |  |  |
| Program: 4975 - Successor RDANH Operations |  |  |  |  |  |  |
| 3110.350 Property Tax Redevelopment Trust Receipts | 28,638 | - | - | - | - | - |
| Program Total: 4975 - Successor RDANH Operations | 28,638 | - | - | - | - | - |
| Department Total: 60 -RDA | 28,638 | - | - | - | - | - |
| REVENUES Total | 28,638 | - | - | - | - | - |
| EXPENSES |  |  |  |  |  |  |
| Department: 60 -RDA |  |  |  |  |  |  |
| Program: 4975 - Successor RDANH Operations |  |  |  |  |  |  |
| 5910.650 Transfers Out To Successor Agency RDA NH | 28,674 | - | - | 32,421 | - | - |
| Program Total: 4975 - Successor RDANH Operations | 28,674 | - | - | 32,421 | - | - |
| Department Total: 60 -RDA | 28,674 | - | - | 32,421 | - | - |
| EXPENSES Total | 28,674 | - | - | 32,421 | - | - |
| Fund REVENUE Total: 2924 - RDA Obligation Retirement Fund | 28,638 | - | - | - | - | - |
| Fund EXPENSE Total: 2924 - RDA Obligation Retirement Fund | 28,674 | - | - | 32,421 | - | - |
| Fund Total: 2924 - RDA Obligation Retirement Fund | (36) | - | - | $(32,421)$ | - | - |
| Fund: 5900 - Transit Fund |  |  |  |  |  |  |

## TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023

| Account Number Account Description | FY 2021-22 Unaudited Actual Amount | FY 2022-23 <br> Adopted Budget | FY 2022-23 <br> Amended Budget | FY 2022-23 <br> Actuals to Date | FY 2022-23 Proposed Amendments | $\begin{gathered} \text { FY 2022-23 } \\ \text { Proposed } \\ \text { Amended Budget } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| REVENuES |  |  |  |  |  |  |
| Department: 40-Community Development |  |  |  |  |  |  |
| Program: 4820-CDD - Transit Operations |  |  |  |  |  |  |
| 3610.100 Interest Revenue Investments | 24 | - | - | - | - | - |
| 3902.201 Miscellaneous Revenue Paratransit Tickets | 25 | - | - | - | - | - |
| 3902.202 Miscellaneous Revenues BC Transit Tickets | 1,366 | 1,200 | 1,200 | 691 | - | 1,200 |
| Program Total: 4820-CDD - Transit Operations | 1,415 | 1,200 | 1,200 | 691 | - | 1,200 |
| Department Total: 40-Community Development | 1,415 | 1,200 | 1,200 | 691 | - | 1,200 |
| REVENUES Total | 1,415 | 1,200 | 1,200 | 691 | - | 1,200 |
| EXPENSES |  |  |  |  |  |  |
| Department: 40 -Community Development |  |  |  |  |  |  |
| Program: 4820-CDD - Transit Operations |  |  |  |  |  |  |
| 5260 Miscellaneous | 1,391 | 1,200 | 1,200 | 594 | - | 1,200 |
| 5910.110 Transfers Out To Local Transportation Fund | - | 28,720 | 28,720 | - | - | 28,720 |
| Program Total: 4820 - CDD - Transit Operations | 1,391 | 29,920 | 29,920 | 594 | - | 29,920 |
| Department Total: 40-Community Development | 1,391 | 29,920 | 29,920 | 594 | - | 29,920 |
| EXPENSES Total | 1,391 | 29,920 | 29,920 | 594 | - | 29,920 |
| Fund REVENUE Total: 5900-Transit Fund | 1,415 | 1,200 | 1,200 | 691 | - | 1,200 |
| Fund EXPENSE Total: 5900-Transit Fund | 1,391 | 29,920 | 29,920 | 594 | - | 29,920 |
| Fund Total: 5900-Transit Fund | 24 | $(28,720)$ | $(28,720)$ | 98 | - | $(28,720)$ |
| Fund: 7611 - GASB 45 Retiree Medical Trust |  |  |  |  |  |  |
| REVENUES |  |  |  |  |  |  |
| Department: 00 - Non Department Activity |  |  |  |  |  |  |
| Program: 0000 - Non Program Activity |  |  |  |  |  |  |
| 3610.100 Interest Revenue Investments | 12,336 | 20,000 | 20,000 | - | - | 20,000 |
| Program Total: 0000 - Non Program Activity | 12,336 | 20,000 | 20,000 | - | - | 20,000 |
| Department Total: 00 - Non Department Activity | 12,336 | 20,000 | 20,000 | - | - | 20,000 |
| REVENUES Total | 12,336 | 20,000 | 20,000 | - | - | 20,000 |
| EXPENSES |  |  |  |  |  |  |
| Department: 00 - Non Department Activity |  |  |  |  |  |  |
| Program: 0000 - Non Program Activity |  |  |  |  |  |  |
| 5610 Trustee/Administrative Fees | 572 | 450 | 450 | - | - | 450 |
| 5620.101 Loss on Investment or Sale of Assets GASB 45 Trust | 39,135 | - | - | - | - | - |
| Program Total: 0000 - Non Program Activity | 39,707 | 450 | 450 | - | - | 450 |
| Department Total: 00 - Non Department Activity | 39,707 | 450 | 450 | - | - | 450 |
| EXPENSES Total | 39,707 | 450 | 450 | - | - | 450 |

TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023

| Accou | t Number | Account Description | FY 2021-22 Unaudited Actual Amount | FY 2022-23 <br> Adopted Budget | FY 2022-23 <br> Amended Budget | FY 2022-23 <br> Actuals to Date | FY 2022-23 <br> Proposed Amendments | FY 2022-23 Proposed Amended Budget |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Fund ReVenue | Total: 7611-GASB 45 Retiree Medical Trust | 12,336 | 20,000 | 20,000 | - | - | 20,000 |
|  | Fund EXPENSE | Total: 7611-GASB 45 Retiree Medical Trust | 39,707 | 450 | 450 | - | - | 450 |
| Fund Total: 7611-GASB 45 Retiree Medical Trust |  |  | $(27,371)$ | 19,550 | 19,550 | - | - | 19,550 |
| Fund: 7615 - Asset Replacement and Repairs |  |  |  |  |  |  |  |  |
| REVENUES |  |  |  |  |  |  |  |  |
| Department: 30-Police |  |  |  |  |  |  |  |  |
| Program: 4520-Police Operations |  |  |  |  |  |  |  |  |
| 3920.100 |  | Proceeds from Sale of Asset General Fixed Assets | 30,595 | - | - | 247 | - | - |
|  |  | Program Total: 4520 - Police Operations | 30,595 | - | - | 247 | - | - |
| Program: 4540 - Police - Animal Control |  |  |  |  |  |  |  |  |
| 3920.100 |  | Proceeds from Sale of Asset General Fixed Assets | 58 | - | - | - | - | - |
| Program Total: 4540 - Police - Animal Control |  |  | 58 | - | - | - | - | - |
| Department Total: 30 - Police |  |  | 30,654 | - | - | 247 | - | - |
| Department: $\quad 35$ - FireProgram: $\quad 4630$ - Fire - Suppression |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| 3920.100 |  | Proceeds from Sale of Asset General Fixed Assets | 46,395 | - | - | - | - | - |
|  |  | Program Total: 4630 - Fire - Suppression | 46,395 | - | - | - | - | - |
|  |  | Department Total: 35 - Fire | 46,395 | - | - | - | - | - |
|  |  | REVENUES Total | 77,049 | - | - | 247 | - | - |
| EXPENSES |  |  |  |  |  |  |  |  |
| Department: 30 -Police |  |  |  |  |  |  |  |  |
| Program: 4520-Police Operations |  |  |  |  |  |  |  |  |
| 5304 |  | Furniture \& Equipment | 2,153 | - | - | - | - | - |
|  |  | Program Total: 4520 - Police Operations | 2,153 | - | - | - | - | - |
|  |  | Department Total: 30 - Police | 2,153 | - | - | - | - | - |
|  |  | EXPENSES Total | 2,153 | - | - | - | - | - |
|  | Fund REVENUE | Total: 7615 - Asset Replacement and Repairs | 77,049 | - | - | 247 | - | - |
|  | Fund EXPENSE | Total: 7615 - Asset Replacement and Repairs | 2,153 | - | - | - | - | - |
| Fund Total: 7615 - Asset Replacement and Repairs |  |  | 74,896 | - | - | 247 | - | - |
| Fund: 7621 - Employee Bank |  |  |  |  |  |  |  |  |
| REVENUES |  |  |  |  |  |  |  |  |
| Department: 00 - Non Department Activity |  |  |  |  |  |  |  |  |
| Program: 0000 - Non Program Activity |  |  |  |  |  |  |  |  |
| 3902.100 |  | Interest Revenue Investments | 1 | 5 | 5 | - | - | 5 |
|  |  | Miscellaneous Revenue General | 957 | 60 | 60 | 62 | - | 60 |
| Program Total: 0000 - Non Program Activity |  |  | 958 | 65 | 65 | 62 | - | 65 |

## TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023

| Account Number Account Description | FY 2021-22 Unaudited Actual Amount | FY 2022-23 <br> Adopted Budget | FY 2022-23 <br> Amended Budget | FY 2022-23 <br> Actuals to Date | FY 2022-23 <br> Proposed Amendments | $\begin{gathered} \text { FY 2022-23 } \\ \text { Proposed } \\ \text { Amended Budget } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Department Total: 00 - Non Department Activity | 958 | 65 | 65 | 62 | - | 65 |
| REVENUES Total | 958 | 65 | 65 | 62 | - | 65 |
| Fund REVENUE Total: 7621 - Employee Bank | 958 | 65 | 65 | 62 | - | 65 |
| Fund EXPENSE Total: 7621 - Employee Bank |  |  |  |  |  |  |
| Fund Total: 7621 - Employee Bank | 958 | 65 | 65 | 62 | - | 65 |
| Fund: 7624-SMIP Strong Motion Impl Prog |  |  |  |  |  |  |
| REVENUES |  |  |  |  |  |  |
| Department: 40-Community Development |  |  |  |  |  |  |
| Program: 4730-Building and Onsite Inspections |  |  |  |  |  |  |
| 3401.335 CDD Building S.M.I.P. Fees | 1,075 | 1,900 | 1,900 | 1,577 | - | 1,900 |
| 3610.100 Interest Revenue Investments | 7 | - | - | - | - | - |
| Program Total: 4730 - Building and Onsite Inspections | 1,082 | 1,900 | 1,900 | 1,577 | - | 1,900 |
| Department Total: 40 - Community Development | 1,082 | 1,900 | 1,900 | 1,577 | - | 1,900 |
| REVENUES Total | 1,082 | 1,900 | 1,900 | 1,577 | - | 1,900 |
| Fund REVENUE Total: 7624 - SMIP Strong Motion Impl Prog | 1,082 | 1,900 | 1,900 | 1,577 | - | 1,900 |
| Fund EXPENSE Total: 7624-SMIP Strong Motion Impl Prog |  |  |  |  |  |  |
| Fund Total: 7624-SMIP Strong Motion Impl Prog | 1,082 | 1,900 | 1,900 | 1,577 | - | 1,900 |
| Fund: 7626-Traffic Safety Impound Fund |  |  |  |  |  |  |
| REVENUES |  |  |  |  |  |  |
| Department: 30-Police |  |  |  |  |  |  |
| Program: 0000 - Non Program Activity |  |  |  |  |  |  |
| $3421.111 \quad$ Police Vehicle Impound Fee | 6,911 | 6,200 | 6,200 | 3,375 | - | 6,200 |
| 3610.100 Interest Revenue Investments | 33 | 350 | 350 | - | - | 350 |
| Program Total: 0000 - Non Program Activity | 6,944 | 6,550 | 6,550 | 3,375 | - | 6,550 |
| Department Total: 30 - Police | 6,944 | 6,550 | 6,550 | 3,375 | - | 6,550 |
| REVENUES Total | 6,944 | 6,550 | 6,550 | 3,375 | - | 6,550 |
| Fund REVENUE Total: 7626 - Traffic Safety Impound Fund | 6,944 | 6,550 | 6,550 | 3,375 | - | 6,550 |
| Fund EXPENSE Total: 7626 - Traffic Safety Impound Fund |  |  |  |  |  |  |
| Fund Total: 7626-Traffic Safety Impound Fund | 6,944 | 6,550 | 6,550 | 3,375 | - | 6,550 |
| Fund: 7627-Tech Equip Replacement/Update |  |  |  |  |  |  |
| REVENUES |  |  |  |  |  |  |
| Department: 00 - Non Department Activity |  |  |  |  |  |  |
| Program: 0000 - Non Program Activity |  |  |  |  |  |  |
| 3406.101 Surcharge Tech Equip Replacement/Update | 471,679 | 465,000 | 465,000 | 235,408 | - | 465,000 |
| Program Total: 0000 - Non Program Activity | 471,679 | 465,000 | 465,000 | 235,408 | - | 465,000 |
| Department Total: 00 - Non Department Activity | 471,679 | 465,000 | 465,000 | 235,408 | - | 465,000 |

## TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023

| Account Number Account Description | FY 2021-22 Unaudited Actual Amount | FY 2022-23 <br> Adopted Budget | FY 2022-23 Amended Budget | FY 2022-23 <br> Actuals to Date | FY 2022-23 <br> Proposed Amendments | $\begin{gathered} \text { FY 2022-23 } \\ \text { Proposed } \\ \text { Amended Budget } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| REVENUES Total | 471,679 | 465,000 | 465,000 | 235,408 | - | 465,000 |
| EXPENSES |  |  |  |  |  |  |
| Department: 00 - Non Department Activity |  |  |  |  |  |  |
| Program: 0000 - Non Program Activity |  |  |  |  |  |  |
| 5199.199 Other Fund Support IT-Serv from Tech Fee | 476,466 | 463,123 | 463,123 | 283,587 | 50,000 | 513,123 |
| 5910.203 Transfers Out Building Safety \& WW Services | - | 116,000 | 116,000 | - | - | 116,000 |
| Program Total: 0000 - Non Program Activity | 476,466 | 579,123 | 579,123 | 283,587 | 50,000 | 629,123 |
| Department Total: 00 - Non Department Activity | 476,466 | 579,123 | 579,123 | 283,587 | 50,000 | 629,123 |
| EXPENSES Total | 476,466 | 579,123 | 579,123 | 283,587 | 50,000 | 629,123 |
| Fund REVENUE Total: 7627 - Tech Equip Replacement/Update | 471,679 | 465,000 | 465,000 | 235,408 | - | 465,000 |
| Fund EXPENSE Total: 7627 - Tech Equip Replacement/Update | 476,466 | 579,123 | 579,123 | 283,587 | 50,000 | 629,123 |
| Fund Total: 7627-Tech Equip Replacement/Update | $(4,787)$ | $(114,123)$ | $(114,123)$ | $(48,179)$ | $(50,000)$ | $(164,123)$ |
| Fund: 7628-General Plan Update |  |  |  |  |  |  |
| REVENUES |  |  |  |  |  |  |
| Department: 00 - Non Department Activity |  |  |  |  |  |  |
| Program: 0000 - Non Program Activity |  |  |  |  |  |  |
| 3345.200 State Revenues - Other Miscellaneous | 124,679 | 65,000 | 65,000 | 73,303 | - | 65,000 |
| 3406.100 Surcharge General Plan Fees | 383,833 | 385,000 | 385,000 | 204,327 | - | 385,000 |
| 3610.100 Interest Revenue Investments | 979 | - | - | - | - | - |
| Program Total: 0000 - Non Program Activity | 509,491 | 450,000 | 450,000 | 277,630 | - | 450,000 |
| Department Total: 00 - Non Department Activity | 509,491 | 450,000 | 450,000 | 277,630 | - | 450,000 |
| REVENUES Total | 509,491 | 450,000 | 450,000 | 277,630 | - | 450,000 |
| EXPENSES |  |  |  |  |  |  |
| Department: 00 - Non Department Activity |  |  |  |  |  |  |
| Program: 0000 - Non Program Activity |  |  |  |  |  |  |
| 5910.010 Transfers Out To General Fund | 201,178 | 800,000 | 800,000 | 24,962 | - | 800,000 |
| 5910.030 Transfers Out To Development Services Fund | - | - | - | 48,341 | - | - |
| Program Total: 0000 - Non Program Activity | 201,178 | 800,000 | 800,000 | 73,303 | - | 800,000 |
| Department Total: 00 - Non Department Activity | 201,178 | 800,000 | 800,000 | 73,303 | - | 800,000 |
| EXPENSES Total | 201,178 | 800,000 | 800,000 | 73,303 | - | 800,000 |
| Fund REVENUE Total: 7628 - General Plan Update | 509,491 | 450,000 | 450,000 | 277,630 | - | 450,000 |
| Fund EXPENSE Total: 7628 - General Plan Update | 201,178 | 800,000 | 800,000 | 73,303 | - | 800,000 |
| Fund Total: 7628-General Plan Update | 308,313 | $(350,000)$ | $(350,000)$ | 204,327 | - | $(350,000)$ |
| Fund: 7640 - Disability Access and Education |  |  |  |  |  |  |
| REVENUES |  |  |  |  |  |  |
| Department: $\mathbf{0 0}$ - Non Department Activity |  |  |  |  |  |  |
| Program: 0000 - Non Program Activity |  |  |  |  |  |  |

## TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023



## TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023

| Account Number Account Description | FY 2021-22 Unaudited Actual Amount | FY 2022-23 <br> Adopted Budget | FY 2022-23 <br> Amended Budget | FY 2022-23 <br> Actuals to Date | FY 2022-23 <br> Proposed Amendments | $\begin{gathered} \text { FY 2022-23 } \\ \text { Proposed } \\ \text { Amended Budget } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Fund EXPENSE Total: 7650-TOP as Successor RDA | 353,884 | 186,649 | 186,649 | 13,103 | - | 186,649 |
| Fund Total: 7650-TOP as Successor RDA | $(325,093)$ | $(146,149)$ | $(146,149)$ | 20,208 | - | $(146,149)$ |
| Fund: 7700-PG\&E Settlement Fund |  |  |  |  |  |  |
| Revenues |  |  |  |  |  |  |
| Department: 00 - Non Department Activity |  |  |  |  |  |  |
| Program: 0000 - Non Program Activity |  |  |  |  |  |  |
| 3610.100 Interest Revenue Investments | 1,215,836 | 1,100,000 | 1,100,000 | 841,727 | - | 1,100,000 |
| $3615.100 \quad$Change in Investment Value - Unrealized Gain/Loss <br> General | $(10,924,975)$ | - | - | $(4,344,052)$ | - | - |
| $3616.100 \quad$Change in Investment Value - Realized Gain/Loss <br> General | $(295,421)$ | - | - | $(151,755)$ | - | - |
| 3901.100 Refunds and Reimbursements Miscellaneous | - | - | 2,227,843 | 2,227,843 | - | 2,227,843 |
| Program Total: 0000 - Non Program Activity | $(10,004,561)$ | 1,100,000 | 3,327,843 | $(1,426,237)$ | - | 3,327,843 |
| Department Total: 00 - Non Department Activity | $(10,004,561)$ | 1,100,000 | 3,327,843 | $(1,426,237)$ | - | 3,327,843 |
| REVENUES Total | (10,004,561) | 1,100,000 | 3,327,843 | $(1,426,237)$ | - | 3,327,843 |
| EXPENSES |  |  |  |  |  |  |
| Department: 00 - Non Department Activity |  |  |  |  |  |  |
| Program: 0000 - Non Program Activity |  |  |  |  |  |  |
| 5213.100 Professional/Contract Services General | 83,286 | 84,000 | 84,000 | 28,247 | - | 84,000 |
| 5910.010 Transfers Out To General Fund | 5,581,881 | 10,985,377 | 11,175,297 | 3,695,973 | 105,500 | 11,280,797 |
| Program Total: 0000 - Non Program Activity | 5,665,167 | 11,069,377 | 11,259,297 | 3,724,221 | 105,500 | 11,364,797 |
| Department Total: 00 - Non Department Activity | 5,665,167 | 11,069,377 | 11,259,297 | 3,724,221 | 105,500 | 11,364,797 |
| EXPENSES Total | 5,665,167 | 11,069,377 | 11,259,297 | 3,724,221 | 105,500 | 11,364,797 |
| Fund REVENUE Total: 7700-PG\&E Settlement Fund | $(10,004,561)$ | 1,100,000 | 3,327,843 | $(1,426,237)$ | - | 3,327,843 |
| Fund EXPENSE Total: 7700-PG\&E Settlement Fund | 5,665,167 | 11,069,377 | 11,259,297 | 3,724,221 | 105,500 | 11,364,797 |
| Fund Total: 7700-PG\&E Settlement Fund | $(15,669,728)$ | $(9,969,377)$ | $(7,931,454)$ | $(5,150,458)$ | $(105,500)$ | $(8,036,954)$ |
| Fund: 7808-Canine Protection Unit Donations |  |  |  |  |  |  |
| REVENUES |  |  |  |  |  |  |
| Department: 30-Police |  |  |  |  |  |  |
| Program: 0000 - Non Program Activity |  |  |  |  |  |  |
| 3610.100 Interest Revenue Investments | 7 | 175 | 175 | - | - | 175 |
| 3650.100 Donations Private Sources | 9,516 | 5,000 | 5,000 | 7,690 | - | 5,000 |
| Program Total: 0000 - Non Program Activity | 9,523 | 5,175 | 5,175 | 7,690 | - | 5,175 |
| Department Total: 30 - Police | 9,523 | 5,175 | 5,175 | 7,690 | - | 5,175 |
| REVENUES Total | 9,523 | 5,175 | 5,175 | 7,690 | - | 5,175 |
| EXPENSES |  |  |  |  |  |  |
| Department: 30-Police |  |  |  |  |  |  |
| Program: 4520-Police Operations |  |  |  |  |  |  |

## TOWN OF PARADISE Budget Worksheet Report as of January 30, 2023

| Account Number Account Description | FY 2021-22 Unaudited Actual Amount | FY 2022-23 <br> Adopted Budget | $\begin{gathered} \text { FY 2022-23 } \\ \text { Amended Budget } \end{gathered}$ | FY 2022-23 <br> Actuals to Date | FY 2022-23 <br> Proposed Amendments | FY 2022-23 <br> Proposed Amended Budget |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5202.100 Operating Supplies General | 5,355 | 2,000 | 2,000 | 1,620 | - | 2,000 |
| 5220.100 Employee Development General | - | - | - | 1,500 | - | - |
| Program Total: 4520 - Police Operations | 5,355 | 2,000 | 2,000 | 3,120 | - | 2,000 |
| Department Total: 30 - Police | 5,355 | 2,000 | 2,000 | 3,120 | - | 2,000 |
| EXPENSES Total | 5,355 | 2,000 | 2,000 | 3,120 | - | 2,000 |
| Fund REVENUE Total: 7808 - Canine Protection Unit Donations | 9,523 | 5,175 | 5,175 | 7,690 | - | 5,175 |
| Fund EXPENSE Total: 7808 - Canine Protection Unit Donations | 5,355 | 2,000 | 2,000 | 3,120 | - | 2,000 |
| Fund Total: 7808 - Canine Protection Unit Donations | 4,168 | 3,175 | 3,175 | 4,570 | - | 3,175 |
| Fund: 7811 - Animal Control Misc Donations |  |  |  |  |  |  |
| revenues |  |  |  |  |  |  |
| Department: 30-Police |  |  |  |  |  |  |
| Program: 4540 - Police - Animal Control |  |  |  |  |  |  |
| 3610.100 Interest Revenue Investments | 23 | 100 | 100 | - | - | 100 |
| 3650.100 Donations Private Sources | 16,669 | 3,400 | 3,400 | 9,128 | - | 3,400 |
| 3695.100 Private Grants Animal Control | - | - | - | 5,000 | - | - |
| Program Total: 4540 - Police - Animal Control | 16,692 | 3,500 | 3,500 | 14,128 | - | 3,500 |
| Department Total: 30 - Police | 16,692 | 3,500 | 3,500 | 14,128 | - | 3,500 |
| Revenues Total | 16,692 | 3,500 | 3,500 | 14,128 | - | 3,500 |
| EXPENSES |  |  |  |  |  |  |
| Department: 30 - Police |  |  |  |  |  |  |
| Program: 4540 - Police - Animal Control |  |  |  |  |  |  |
| 5910.070 Transfers Out To Animal Control Fund | 3,500 | 6,917 | 6,917 | - | - | 6,917 |
| Program Total: 4540 - Police - Animal Control | 3,500 | 6,917 | 6,917 | - | - | 6,917 |
| Department Total: 30 - Police | 3,500 | 6,917 | 6,917 | - | - | 6,917 |
| EXPENSES Total | 3,500 | 6,917 | 6,917 | - | - | 6,917 |
| Fund REVENUE Total: 7811 - Animal Control Misc Donations | 16,692 | 3,500 | 3,500 | 14,128 | - | 3,500 |
| Fund EXPENSE Total: 7811 - Animal Control Misc Donations | 3,500 | 6,917 | 6,917 | - | - | 6,917 |
| Fund Total: 7811 - Animal Control Misc Donations | 13,192 | $(3,417)$ | $(3,417)$ | 14,128 | - | $(3,417)$ |

## TOWN OF PARADISE

RESOLUTION NO. 23-

## A RESOLUTION OF THE TOWN COUNCIL OF THE TOWN OF PARADISE, CALIFORNIA, ADOPTING THE AMENDED SALARY PAY PLAN FOR TOWN OF PARADISE EMPLOYEES FOR THE FISCAL YEAR 2022-2023

WHEREAS, the Town wishes to revise the salary pay plan; and
WHEREAS, the salary pay plan will incorporate all salary paid within the Town into one salary pay plan.
NOW, THEREFORE be it resolved by the Town Council of the Town of Paradise, that the Town of Paradise salary pay plan attached to this resolution is hereby adopted.

PASSED AND ADOPTED by the Town Council of the Town of Paradise this 14th day of February, 2023, by the following vote:
AYES:
NOES:
ABSENT:

NOT VOTING:

ATTEST:

By:
Dina Volenski, CMC, Town Clerk
APPROVED AS TO FORM:

[^26]ORIGINATED BY:
REVIEWED BY:
SUBJECT:

## LONG TERM

RECOVERY PLAN:

MOU with local non-profits for lot acquisition for affordable homeownership

## COUNCIL ACTION REQUESTED:

1. Consider reviewing and approving the Memorandum of Understanding (MOU) with local non-profits for lot acquisition for affordable homeownership; and,
2. Adopt Resolution No. 2023-__ "A Resolution of the Town Council of the Town of Paradise Directing the Method of Purchase of Lots for the Construction of Affordable Housing and Making Findings Related Thereto."

## Background:

As part of the 2020 CDBG Annual Action Plan, the Town set aside $\$ 135,771$ toward lot acquisition for affordable homeownership. In March of 2022, the Town applied for \$700,000 in HOME funds to create an Infill New Construction to build affordable homes on lots acquired using those CDBG funds. In addition, as part of the 2022 CDBG Annual Action Plan, the Town reserved \$12,899 in funds to assist with the management of the HOME Infill New Construction program.

## Analysis:

Due to Council's desire for the Town not to acquire land until construction can take place, the Housing Department held off on acquiring the land until construction funds were secured. In July of 2022, the State temporarily suspended their HOME First-Time Homebuyer program, which the Infill New Construction program is under, delaying the ability to move forward with this program. In December, the State indicated that the Town has been awarded the HOME funds for the Infill New Construction program but cannot access those funds until the suspension is lifted.

The Town is experiencing a timeliness issue in spending down its CDBG entitlement funds, of which there is a May $1^{\text {st }}$ deadline to spend a minimum of $\$ 621,513.52$. Spending the $\$ 135,771$ for property acquisition will help the Town's timeliness issue.

To accomplish both tasks of acquiring land for Infill New Construction and spending CDBG funds, while acknowledging Council's desire for the Town not to acquire land, the Housing Department reached out to local non-profits whose mission is affordable housing. This MOU allows the Town to pay for land, using CDBG funds, being acquired for affordable homeownership but the title will be held by the non-profit. In the case of CHIP and Habitat, they will use the property for affordable self-help homeownership; in the case of North Valley Housing Trust, they will hold the property
until HCD releases its First-Time Homebuyer program enabling the Town to conduct its Infill New Construction program.

The associated resolution was drafted by the Town's legal counsel to clarify that this MOU arrangement is not a gift of public funds and will result in affordable homeownership.

## Financial Impact:

No effect on the general fund. However, by spending the $\$ 135,771$ on lot acquisition, the Town is closer to curing their timeliness issue with its CDBG entitlement, thereby better securing future CDBG entitlement funds.

## TOWN OF PARADISE

 RESOLUTION NO. 2023-
## A RESOLUTION OF THE TOWN COUNCIL OF THE TOWN OF PARADISE DIRECTING THE METHOD OF PURCHASE OF LOTS FOR THE CONSTRUCTION OF AFFORDABLE HOUSING AND MAKING FINDINGS RELATED THERETO

WHEREAS, the Town of Paradise has been subjected to the most disruptive and cataclysmic wildfire ("Camp Fire") which destroyed a majority of homes and residential dwellings in the Town; and

WHEREAS, the Camp Fire destruction has created many hundreds of homeless individuals in the Town of Paradise; and

WHEREAS, the public need for affordable and low-income housing has never been greater in the Town of Paradise; and

WHEREAS, the Town of Paradise has received Community Development Block Grant ("CDBG") funds earmarked for lot acquisition for the construction of affordable home ownership; and

WHEREAS, the Town of Paradise is temporarily not able to fully construct new affordable homes on any properties that it may purchase for that purpose; and

WHEREAS, the Town is experiencing a timeliness issue in spending down its CDBG entitlement funds; and

WHEREAS, to accomplish the goal of acquiring land for Infill New Construction and spending CDBG funds, the Town of Paradise desires to utilize the CDBG funds for the public purpose of purchasing lots for the construction of affordable housing; and

WHEREAS, the title to the purchased lots will be held in the name of a local non-profit housing provider; and

WHEREAS, the Town Council of the Town of Paradise determines and finds that this purchase of land is for a public purpose and in the benefit of the public at large to enable the timely construction of affordable housing in the community.

## NOW, THEREFORE, BE IT RESOLVED BY THE TOWN COUNCIL OF THE TOWN OF PARADISE AS FOLLOWS:

SECTION 1. The above facts are true and correct and are incorporated by reference as if fully set forth herein.

SECTION 2. The Town Council determines and finds that the purchase of land for affordable housing purposes which title will be held in the name of a local non-profit is
for a public purpose and in the benefit of the public at large. In addition, this scenario will enable the timely construction of affordable housing in the community beyond what would be accomplished if the Town did not engage in this process.

SECTION 3. The Town Council determines and finds that the above-described scenario for the purchase of land for affordable housing purposes does not constitute an impermissible gift of public funds.

PASSED AND ADOPTED by the Town Council of the Town of Paradise on this $14^{\text {th }}$ day of February, 2023, by the following vote:

AYES:
NOES:
ABSENT:
ABSTAIN:
By: $\qquad$
Greg Bolin, Mayor

## ATTEST:

Dina Volenski, CMC, Town Clerk

APPROVED AS TO FORM:

Scott E. Huber, Town Attorney

## MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding ("MOU") is made effective as of <date> ("Effective Date"), setting forth the Parties' desires regarding their respective rights and responsibilities for potential development and construction of an affordable housing project, commonly known as __address> , Paradise, CA 95969; Assessor's Parcel Number <number> ("Property"), in order to deliver affordable homeownership to households at or below 80\% Area Median Income (AMI), as published by HUD, in the Town of Paradise ("Project"). The Parties to this MOU are:

- Town of Paradise, a California municipality, ("Town"), located at 5555 Skyway, Paradise, CA 95969, who will serve as the financier of the Property and overseer of the Project; and
- $\leq$ North Valley Housing Trust, Habitat for Humanity of Butte County, or Community Housing Improvement Program>, a California nonprofit corporation ("Non-profit"), located at $\qquad$ , the Owner of the Property and a collaborator of the Project.

Town and Non-profit is each a "Party" and are collectively referred to as the "Parties".

NOW, THEREFORE, in consideration of the mutual understandings and agreements set forth herein, the Parties agree as follows:

## AGREEMENT

1. Non-Binding Effect. This MOU, commencing as of the Effective Date and expiring as of <three years from Effective Date>, unless otherwise extended in writing by the Parties ("Term"), is intended to serve as a general basis for discussions and negotiations among the Parties regarding the Property and the Project. Except to cooperate in good faith with respect to the matters referenced herein, no special relationship has been created among the Parties and no Party has any legal obligation to the others under or by this MOU, unless and until all conditions or contingencies described herein have been fully satisfied and one or more definitive agreements binding on the Parties are signed and delivered. Should this Agreement expire without the Project being completed, the Property shall be transferred to the Town of Paradise.
2. Funding of the Project. Depending on the specific project and the capacities of the non-profit, the Town and/or the non-profit will be responsible for securing project funding. The financing structure will be mutually determined by the Town and the non-profit prior to the non-profit taking title of the property.
3. Purchase, Sale and Transfer of the Property. Town will pay for/provide the Property to the Non-profit, and the non-profit will hold title. Upon the close of escrow for the purchase of the Property ("Closing"), use of the Property will be restricted as an affordable homeownership project. Non-profit will, during the Term, maintain the Property (i.e., pay property taxes, secure liability insurance, maintain weed abatement, etc.). The property cannot be sold until and unless the Project has been
completed, resulting in affordable homeownership. Should this Agreement expire without the Project being completed, the Property shall be transferred to the Town of Paradise.
4. Planning, Development and Construction of the Project. Upon securing funding for the Project, and after the Closing, the Parties will approach the Project as follows: Non-profit will take the lead to organize and coordinate various phases of the Project, working with the Town to plan, design, develop and construct the Project pursuant to the requirements of all applicable local, state and federal authorities having jurisdiction over the matters, including, without limitation, Housing Quality Standards; and site, neighborhood and environmental standards of Housing and Urban Development (collectively the "Laws"). In consultation with Town, Non-profit is primarily responsible during these phases for developing and providing budget projections; architectural designs and engineering; and securing building and occupancy permits for low-income homeownership, with the goal of achieving an early and efficient completion and delivery of the Project in compliance with the Laws.
5. Ownership, Operation and Administration of the Project. Upon completion of the Project and issuance of a final occupancy permit, the Project will be sold to qualified, low-income household(s). Except in the case of a USDA Rural Development mutual self-help housing project, in which case the Project will be sold to a qualified, lowincome household prior to construction and completion of the Project and issuance of a final occupancy permit. In the event that low-income household is unable to complete the Project, the Project must be sold to another qualified household.
6. Other Terms and Conditions. The Parties represent and warrant that they have full power and authority to execute this MOU, which shall be construed as if the Parties jointly prepared it, and which sets forth all the agreement and conditions among them concerning the Property and the Project, and that there are no covenants, agreements or conditions either oral or written among them other than are herein set forth. This MOU may be executed in counterparts via facsimile, email or DocuSign, each of which copies shall constitute an original, and all such counterparts when taken together shall constitute one and the same document. All notices under this MOU shall be in writing, and shall be deemed delivered when delivered in person or by overnight courier or by depositing in the United Sates mail, certified or registered mail, return receipt requested, postage prepaid, addressed to other Party as set forth above.

IN WITNESS WHEREOF, the parties have signed this MOU as of the Effective Date.

Town of Paradise, a California municipality

By:
Kevin Phillips
Its: Town Manager
<Non-profit>, a California nonprofit corporation

By:
<add person>
Its: <add title>

Town of Paradise
Council Agenda Summary
Agenda Item: 6(h)
Date: February 14, 2023

## ORIGINATED BY:

REVIEWED BY:
SUBJECT:

Colette Curtis, Recovery and Economic
Development Director
Ross Gilb, Finance Director/Town Treasurer
Kevin Phillips, Town Manager
Transient Occupancy Tax Discussion

## COUNCIL ACTION REQUESTED:

Provide direction regarding future spending of transient occupancy tax revenues.

## Background:

Transit Occupancy Tax (TOT) funds are intended to be used by local jurisdictions to offset impacts of short-term stays in the community. These funds may be used at the discretion of the local jurisdiction and may be used to promote tourism and increase the number of visitors to local hotels, thereby increasing revenue to local businesses and ultimately supporting economic vitality.

Per Paradise Municipal Code section 3.24.30, the current transient occupancy tax (TOT) rate is ten percent of the rent charged by the operator of the temporary lodging establishment. Based on the current TOT rate, the Town is expected to receive approximately $\$ 200,000$ in TOT revenues during fiscal year (FY) 2022-23. This current budget amount is estimated based on the trend of average revenues following the 2018 Camp Fire.

Prior to the 2018 Camp Fire, the historical 13-year annual average TOT revenue was approximately $\$ 191,000$, while the historical 5 -year annual average TOT revenue was $\$ 209,000$.

All TOT revenues are currently maintained within the General Fund and applied toward budgeted General Fund expenditures. The use of TOT revenues towards General Fund expenditures has been the practice of the Town since FY 2009-10. Prior to FY 2009-10, the Town had allocated approximately $50 \%$ of all TOT revenues received to three outside agencies. Of the $50 \%$ allocated, approximately $50 \%$ was allocated to the Paradise Ridge Chamber of Commerce, $25 \%$ was allocated to the Gold Nugget Museum, and $25 \%$ was allocated to the Paradise Performing Arts Center. The average annual TOT revenues collected during the time period in which TOT revenues were allocated totaled approximately $\$ 185,000$.

## Discussion

At the December 2023 Council meeting, Paradise Town Council gave direction to staff to look into a potential allocation of TOT funds once again towards tourism efforts in the Town of Paradise. Allocating funds to local community groups to further tourism can be accomplished in several ways:

1. Direct Allocation to community groups. The Town can choose to allocate a percentage of TOT funding to identified community groups, following the model of what was done prior
to the 2000-10 fiscal year. Council may elect to add to remove community groups to the list of groups previously funded.
2. Allocation based on request by community groups. Council may offer funding to community groups on a request basis, where groups can apply or request funding through a defined process. Groups would identify the funding needs for their program and demonstrate the benefit to tourism for Paradise. A committee consisting of two Council members and staff would be formed to make allocation recommendations for the full Council to approve. This process could be done each year, or at a frequency of the Council's choosing.
3. Allocation through another agency. Council could choose to allocate a percentage of TOT funds to an agency which would then grant out the funding to subrecipients through a process of their choosing.

## Financial Impact:

As previously stated, the Town is currently expected to receive approximately $\$ 200,000$ in transient occupancy taxes during fiscal year 2022-23. This amount is estimated based on the trend of average revenues following the 2018 Camp Fire.

Based on the most recent updates to the fiscal sustainability model, the amount of the original settlement amount reserved for use toward operational costs ( $\sim \$ 200$ million) remaining as of the end of the 25 -year projection period is projected to be $\$ 62.4$ million. This projected reserve balance incorporates the assumption that transient occupancy taxes will be applied toward General Fund expenditures for the entirety of the 25 -year projection period. Any allocation of current and future TOT revenues will reduce the projected reserve balance based on the proportionate share of TOT revenues provided to outside agencies and not utilized toward General Fund expenditures.


[^0]:    Scott E. Huber, Town Attorney

[^1]:    ${ }^{1}$ The Camp Fire was the deadliest and most destructive wildfire in California's history, and the most expensive natural disaster in the world in terms of losses.
    ${ }^{2}$ (Carollo Engineers, Inc. 2021)

[^2]:    ${ }^{3}$ (Carollo Engineers, Inc. 2021)

[^3]:    ${ }^{4}$ Escalated from published Plant 2 valuation estimate in the Asset Valuation and Revenue Sufficiency Analysis (NHA Advisors, May 2016) using published historical average interest rates (2017-2021) and a projected average annual interest rate of 4.5\% through December 2026.

[^4]:    ${ }^{1}$ (Carollo Engineers, Inc. 2005)
    ${ }^{2}$ (Butte County and City of Chico 1994)

[^5]:    ${ }^{3}$ (Carollo Engineers, Inc. 2021)
    4 (Carollo Engineers, Inc. 2021)
    5 (City of Chico; PMC 2017)

[^6]:    ${ }^{6}$ Maximum influent flow reported on the monthly operational data sheets represents the maximum instantaneous flow, whose interval is subject to the PLC/SCADA programming. Hourly data prior to 2016 is not available due to a SCADA upgrade. Previous planning efforts expressed wet weather flow criteria in terms of peak hour wet weather flow (PHWWF).

[^7]:    7 (Tchobanoglous 2014)

[^8]:    ${ }^{8}$ (Carollo Engineers, Inc. 2005)
    ${ }^{9}$ (Carollo Engineers, Inc. 2013)
    ${ }^{10}$ Outliers were removed from calculated loads rather than from measured concentrations. This is because a low concentration may appear to be a statistical outlier without flow context (i.e., rainfall can dilute a pollutant's concentration), but when taken in context with the associated high flow, the load is not a statistical outlier.
    ${ }^{11}$ (Carollo Engineers, Inc. 2005)

[^9]:    ${ }^{12}$ (Carollo Engineers, 2021)

[^10]:    Figure 2.14 Projected Flows

[^11]:    ${ }^{1}$ (Carollo Engineers, 2021)
    ${ }^{2}$ (Carollo Engineers, 2021)

[^12]:    ${ }^{6}$ Maximum recommended surface overflow rate at peak flow is $1,200 \mathrm{gpd} / \mathrm{ft}^{2}$ (Ten-States Standards).

[^13]:    ${ }^{1}$ Assumes that screenings conveyor is still in appropriate condition for extension. May require conveyor replacement.
    ${ }^{2}$ Project cost factor reduced to $15 \%$ due to project simplicity.

[^14]:    ${ }^{3}$ Existing pumping systems will likely have been replaced before the project is needed. The City should consider the future primary clarifier when/if pumping system adjustments are made.

[^15]:    ${ }^{1}$ (Carollo Engineers, 2021)
    ${ }^{2}$ (Carollo Engineers, 2021)

[^16]:    ${ }^{3}$ (Carollo Engineers, 2021)
    4 (Carollo Engineers, 2021)
    5 If existing mixing zone/dilution credit allowances were to become more stringent, with newly identified reasonable potential, or with failure of other non-treatment options evaluated in parallel.
    ${ }^{6}$ (Carollo Engineers, 2021)
    ${ }^{7}$ (Carollo Engineers, 2021)

[^17]:    ${ }^{9}$ (Carollo Engineers, 2019)

[^18]:    ${ }^{11}$ (Carollo Engineers, 2021)
    ${ }^{12}$ (Carollo Engineers, 2021)

[^19]:    ${ }^{1}$ (Carollo Engineers, 2021).

[^20]:    ${ }^{2}$ (Carollo Engineers, 2021).
    ${ }^{3}$ (Carollo Engineers, 2021).
    4 (Carollo Engineers, 2021).
    ${ }^{5}$ (Carollo Engineers, 2021).

[^21]:    ${ }^{1}$ (Carollo Engineers, 2021)

[^22]:    ${ }^{2}$ (Carollo Engineers, 2021)

[^23]:    Program: $\quad 4420$ - Measure C/V TUT

[^24]:    REVENUES
    Department: 00 - Non Department Activity
    Program: $\mathbf{0 0 0 0}$ - Non Program Activity

[^25]:    Fund: 2204 - State SLESF Grant

[^26]:    Scott E. Huber, Town Attorney

