



**Monthly  
Operations  
and  
Maintenance  
Report**

**February 2016**

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## Acronyms and Abbreviations

ACRONYM	DEFINITION
<b>- A -</b>	
ABS	Acrylonitrile Butadiene Styrene
AED	Automated External Defibrillator
AF	Acre Feet
AICPA	American Institute of Certified Public Accountants
AL	Action Levels
ANSI	American National Standards Institute
APCD	Air Pollution Control District
APN	Assessor Parcel Number
APs	Action Plans
APSA	Aboveground Petroleum Storage Act
AQMD	Air Quality Management District
ARB	Air Resources Board
ARV	Air Relief Valve
ASDWA	Association of State Drinking Water Administrators
ATSDR	Agency for Toxic Substances and Disease Registry
AWWA	American Water Works Association
<b>- B -</b>	
BACM	Best Available Control Measure
BCP	Business Continuity Plan
BFP	Belt Filter Press
BMP	Best Management Practice
BOD	Biochemical Oxygen Demand
BOD <sub>5</sub>	Standard Biochemical Oxygen Demand – 5 day
BOO	Build-Own-Operate
BOT	Build-Own-Transfer
BPMS	Backflow Prevention Management System
BTU	British Thermal Unit
<b>- C -</b>	
CAC	California Administrative Code
CAFR	Comprehensive Annual Financial Report
CalARP	California Accidental Release Prevention
Cal-EMA	California Emergency Management Association

ACRONYM	DEFINITION
Cal-EPA	California Environmental Protection Agency
Cal/OSHA	California Division of Occupational Safety and Health
CAMAL Net	California Mutual Aid Laboratory Network
CASA	California Association of Sanitation Agencies
c/b or cb	Catch Basin
CBOD	Carbonaceous Biochemical Oxygen Demand
CCC	Criterion Continuous Concentration
CCR	California Code of Regulations
CCTV	Closed Circuit Television
CDC	Centers for Disease Control and Prevention
CDPH	California Department of Public Health
CEQA	California Environmental Quality Act
CERS	California Environmental Reporting System
CFE	Combined Filter Effluent
CFR	Code of Federal Regulations
cfs	Cubic Feet per Second
CH <sub>4</sub>	Methane
C.I.I.	Commercial, Institutional, Industrial
CIP	Capital Improvement Project
CIWMB	California Integrated Waste Management Board
CM	Construction Manager
CMC	Criterion Maximum Concentration
CO	Carbon Monoxide
CO	Correction Order
COD	Chemical Oxygen Demand
COP	Certificate of Participation
CoS	City of Stockton
CCB	Chlorine Contact Basin
CIP	Capital Improvement Projects
CMMS	Computerized Maintenance Management Systems
CPFF	Cost Plus Fixed Fee
CPIF	Cost Plus Incentive Fee

ACRONYM	DEFINITION
CPPC	Cost Plus Percentage
CPR	Cardiopulmonary Resuscitation
CQA	Construction Quality Assurance
CQC	Construction Quality Control
CSO	Combined Sewer Overflow
CSPA	California Sportfishing Protection Alliance
CSR	Customer Service Request
CTG	Control Techniques Guidelines
CUWCC	California Urban Water Conservation Council
CVFPB	Central Valley Flood Protection Board
CWEA	California Water Environment Association
<b>- D -</b>	
DO	Dissolved Oxygen
DAF	Dissolved Air Flotation
DAFT	Dissolved Air Flotation Thickener
DAT	Damage Assessment Team
dBA	Decibels (A weighted)
DBP	Disinfection Byproducts
DPH	Department of Public Health
DOT	Department of Transportation
DWSP	Delta Water Supply Project
DWTP	Delta Water Treatment Plant
<b>- E -</b>	
EC	Environmental Control Division
EC	Effective Concentration
EDU	Equivalent Dwelling Unit
EIR	Environmental Impact Report
EIS	Environmental Impact Statement
ELAP	Environmental Laboratory Accreditation Program
EOC	Emergency Operations Center
EOP	Emergency Operations Plan
EPA	Environmental Protection Agency
EPC	Engineer, Procure, Construct
EPT	Enhanced Primary Treatment
ERAP	Emergency Response Action Plan
ERP	Emergency Response Plan
<b>- F -</b>	
FA	First Aid
FBI	Federal Bureau of Investigation
FEMA	Federal Emergency Management Agency
FFY	Federal Fiscal Year

ACRONYM	DEFINITION
FFP	Firm Fixed Price
FIP	Federal Implementation Plan
FOG	Fats, Oils, and Grease
FY	Fiscal Year
<b>- G -</b>	
GAAP	Generally Accepted Accounting Principles
GAAS	Generally Accepted Auditing Standards
GAO	General Accounting Office
GAS	Government Auditing Standards
GASB	Governmental Accounting Standards Board
GBT	Gravity Belt Thickener
GIS	Geographic Information System
GO	General Obligation (bonds)
gpcd	gallons per capita-day
gpd	gallons per day
gpm	gallons per minute
<b>- H -</b>	
H <sub>2</sub> S	Hydrogen Sulfide
HAA or HAA5	Halo Acetic Acids
HAP	Hazardous Air Pollutant
HAZMAT	Hazardous Material Response Team
HCFC	Hydrogenated Chlorofluorocarbon
HET	High Efficiency Toilet
HHS	Health and Human Services
HOA	Home Owners' Association
HS	Homeland Security
HSAS	Homeland Security Advisory System
<b>- I -</b>	
I&C	Instrumentation and Control
IC	Inhibition Concentration
IC	Incident Commander
ICS	Incident Command System
I/I	Infiltration/Inflow
IPP	Industrial Pretreatment Program
IO	Information Officer
IPM	Integrated Pest Management
IT	Information Technology
<b>- J - K -</b>	
JPA	Joint (exercise of) Powers Authority

ACRONYM	DEFINITION
<b>- L -</b>	
LCR	Environmental Protection Agency's Lead Copper Rule
LEPC	Local Emergency Planning Commission
LGRS 80	State Controller's Report
LO	Liaison Officer
LPoC	Laboratory Point of Contact
LRAA	Locational Running Annual Average
LRN	Laboratory Response Network
LRO	Legally Responsible Official
<b>- M -</b>	
MACT	Maximum Achievable Control Technology
MBAS	Methylene Blue Active Substances (foaming agents)
MCE	Maximum Credible Earthquake
MCL	Maximum Contaminant Level
MFE	Mixed Final Effluent
MG	Million Gallons
mgd	million gallons per day
mg/L	milligrams per liter
MIL	Million
MMF	Multi Media Filters
MOU	Memorandum of Understanding
MPE	Maximum Probable Earthquake
MPF	Maximum Probable Flood
MPN	Most Probable Number
MRP	Monitoring and Reporting Program
MSDS	Material Safety Data Sheets
MUD	Municipal Utilities Department
<b>- N -</b>	
NaOCl	Sodium Hypochlorite
NaOH	Sodium Hydroxide
NBT	Nitrifying Biotower
NH <sub>3</sub> -N	Ammonia Nitrogen
NIMS	National Incident Management Systems
NIPC	National Infrastructure Protection Center
NIOSH	National Institute for Occupational Safety and Health
NOD	Nitrogenous Oxygen Demand
NOEC	No Observed Effect Concentration
NOEL	No Observed Effect Level

ACRONYM	DEFINITION
NOI	Notice of Intent
NOT	Notice of Termination
NOV	Notice of Violation
NOX	Nitrogen Oxides
NPDES	National Pollutant Discharge Elimination System
NRC	National Response Center
NRR	Noise Reduction Ranking
NRWA	National Rural Water Association
NTC	Notice To Clean
NTU	Nephelometric Turbidity Units
NWS	National Weather Service
<b>- O -</b>	
O <sub>3</sub>	Ozone
O&M	Operations & Maintenance
OMB	Office of Management and Budget
OSHA	Occupational Safety and Health Administration
OCT	Operator Certification Training, Inc.
<b>- P -</b>	
PACP	Pipeline Assessment Certification Program
PAH	Polynuclear Aromatic Hydrocarbon
PCB	Polychlorinated biphenyl
PERL	Pacific EcoRisk Lab
PFRP	Processes to Further Reduce Pathogens
PG&E	Pacific, Gas, and Electric
PIDS	Primary Influent Distribution Structure
PLC	Programmable Logic Controllers
PLSD	Private Lateral Sewage Discharge
PM	Preventive Maintenance
PM-10	Particulate Matter <10 microns
PMP	Probable Maximum Precipitation
PMSD	Percent Minimum Statistical Difference
POC	Pollutants of Concern
POL	Petroleum, Oil, and Lubricant
POSM	Pipeline Observation System Management.

ACRONYM	DEFINITION
POTW	Publicly Owned Treatment Works
PPE	Personal Protective Equipment
ppm	parts per million
PSMP	Process Safety Management Plan
PSRP	Processes to Significantly Reduce Pathogens
PVC	Polyvinyl Chloride
<b>- Q -</b>	
QA	Quality Assurance
QC	Quality Control
<b>- R -</b>	
RACM	Reasonably Available Control Measures
RACT	Reasonably Available Control Technologies
RE	Resident Engineer
REACON	Recycling Energy Air Conservation
RFP	Request for Proposal
RFQ	Request for Qualifications
RMP	Risk Management Plan
RMP	Regional Monitoring Program
RO	Reverse Osmosis
ROW	Right of Way
ROWD	Report of Waste Discharge
RPR	Resident Project Representative
RQ	Reportable Quantity
RSP	Raw Sewage Pump
RST	RS Technical - The name of a company that makes television inspection equipment for sewer lines, and the TV equipment used by MUD.
RTU	Remote Terminal Units
RWCF	Regional Wastewater Control Facility
RWQCB	Regional Water Quality Control Board
<b>- S -</b>	
SAR	Sodium Adsorption Ratio
SAWS	Stockton Area Water Suppliers
SCADA	Supervisory Control and Data Acquisition
SCBA	Self-contained Breathing Apparatus

ACRONYM	DEFINITION
SEMS	Security and Emergency Management System
SEWD	Stockton East Water District
SIP	State Implementation Plan
SJCEHD	San Joaquin County Environmental Health Department
SJVAPCD	San Joaquin Valley Air Pollution Control District
SMARTS	Storm Water Multiple Application and Report Tracking System
SO <sub>2</sub>	Sulfur Dioxide
SOP	Standard Operating Procedure
SPCC Plan	Spill Prevention, Control, and Countermeasures Plan
SS	Settleable Solids
SSES	Sewer System Evaluation Survey
SSMP	Sewer System Management Plan
SSO	Sanitary Sewer Overflow
SSORP	Sanitary Sewer Overflow Response Plan
STEP	Septic Tank Effluent Pumping
STP	Sewage Treatment Plant
SUA	Stockton Urbanized Area
SWMP	Stormwater Management Plan
SWQCCP	Stormwater Quality Control Criteria Plan
SWRCB	State Water Resources Control Board
<b>- T -</b>	
T&M	Time & Materials (contract)
TC	Total Carbon
TDH	Total Dynamic Head
TDS	Total Dissolved Solids
TTHM	Total Trihalomethanes
TIE	Toxicity Identification Evaluation
Title V	Federal Clean Air Standards
TKN	Total Kjeldahl Nitrogen
TMDL	Total Maximum Daily Load
TOC	Total Organic Carbon
TOD	Total Oxygen Demand
TSS	Total Suspended Solids
TU <sub>c</sub>	Chronic Toxicity Unit

ACRONYM	DEFINITION
<b>- U – V -</b>	
UDRW	Urban Discharge Receiving Water
UERM	Utility Emergency Response Manager
UEOCM	Utility Emergency Operations Center Manager
U.S. EPA	United States Environmental Protection Agency
USA	Underground Service Alert
VA	Vulnerability Assessment
VAR	Vector Attraction Reduction
VCP	Vitrified Clay Pipe
VE	Value Engineering
VFD	Variable Frequency Drive
VOC	Volatile Organic Compound

ACRONYM	DEFINITION
VSS	Volatile Suspended Solids
VWN	Verbal Warning Notice
<b>- W – X – Y – Z -</b>	
WaterISAC	Water Information and Security Analysis Center
WDR	Waste Discharge Requirements
WERF	Water Environment Research Foundation
WFO	Water Field Office
WID	Woodbridge Irrigation District
WLA	Waste Load Allocation
WTP	Water Treatment Plant
WWTP	Wastewater Treatment Plant

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# Executive Summary

## Summary

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This report is a summary of the information management records of the Water Resources; Water Distribution, Treatment & Production; Wastewater Treatment; Wastewater Collections; Environmental Control; Laboratory, Engineering; Stormwater; and Administration Division activities within the City of Stockton, Municipal Utilities Department (MUD) for February 2016. It includes statistical data and narrative descriptions of reportable activities, events, and issues.

### **Water Resources**

The Water Conservation Program continued to implement water saving programs and incentives in accordance with best management practices and State-mandated water use reductions. For the month of February, a 14% reduction in water use was achieved, when compared to February 2013.

### **Water Distribution, Treatment, and Production**

Drinking water treated and produced from the Delta Water Treatment Plant and groundwater wells, and then delivered from Stockton East Water District to the City's North, South and Walnut Plant Systems, totaled approximately 463 million gallons for February and averaged approximately 16 million gallons per day.

### **Wastewater Treatment**

The #2 Schwing pump was installed at the belt press building. There were several Schwing pump training sessions this month for the operations and maintenance divisions. The rail car area of the plant was inspected by the California Public Utilities Department and the Department of Transportation. The plant facilities passed the inspection with no citations. The outfall control improvement project is moving forward. The operations division is developing and testing a manual feed protocol for Sodium Bisulfite. Proper dosing and pump capacity are still being evaluated. The development of training lessons for the learning management software is still ongoing.

Additional Supervisory Control and Data Acquisition (SCADA) improvements were made this month. The Occupational Safety and Health Administration (OSHA) inspection is nearing completion. All of the safety items noted during the inspection have been corrected.

There was a primary sewage pipe failure that prevented the use of four primary sedimentation tanks for a number of weeks. The line has been repaired and the tanks

are back in service. The State Water Resource Control Board inspected the plant and the lab this month. There were no violations.

## **Wastewater Collections**

Eleven Sanitary Sewer Overflows (SSOs) occurred. Ten were Category 3 SSOs (less than 1,000 gallons), and one was a Category 2 SSO (more than 1,000 gallons). All pipes and areas affected were cleaned to ensure capture and return of the pollutants to the sanitary sewer system. There were no odor complaints this month.

## **Environmental Control**

The Fats, Oils, and Grease (FOG) Program is in its seventh year of restaurant inspections. AS400 data entries are made on a daily basis as officers complete their inspection. The Division is initiating the implementation of a commercial FOG software for use in 2016.

## **Laboratory**

The lab analyzed 798 samples for 2452 analyses. Contract labs analyzed 126 samples for 718 analyses. There were 170 samples for National Pollutant Discharge Elimination System (NPDES) Permit compliance, 195 samples for process control, and 433 samples for drinking water compliance.

The Delta Water Treatment Plant is currently in the process of obtaining the California State Water Resources Control Board Environmental Laboratory Accreditation Program (ELAP) for Field of Testing 101: Microbiology of Drinking Water.

The lab continues to provide on-going support for additional sampling and analyses to a consultant working on Wastewater permit compliance items.

## **Engineering**

There were 26 development reviews received and 14 completed and returned. Development of the Fiscal Year 16/17 Capital Improvement Projects for MUD was completed during the month of February.

## **Stormwater**

Inspections of construction sites continue to be a priority for the City of Stockton. There were 24 Stormwater inspections conducted at active construction sites. There were 13 Verbal Warnings, ten Correction Orders, and seven Notices to Clean. No referrals were sent to the Regional Water Quality Control Board during this period.

Inspections of industrial, commercial facilities and residential complaints and field observation resulted in no Administrative Citations. No referrals were sent to the Regional Water Quality Control Board during this period.

## **Administration**

There were zero unsafe conditions, four vehicle accidents, and three work related injuries. There were 270 safety-training hours provided to staff this month through tailgate sessions and specialized training. Recruiting efforts have been active to fill openings due to resignations and retirements. Finding and retaining qualified candidates continues to be difficult. Current staff totals 196 of the approved 217 positions. Overtime has decreased from last month.

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# Water Resources

## Operational Activities

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The Water Resources Division is responsible for overall water supply planning for the Water Utility. Those duties include contracting for purchased water, water conservation, utility planning and reporting, regional water resources planning, water utility budgeting, capital improvement planning, regulatory compliance, and supporting the Community and Economic Development Departments.

Water Resources staff supports the Delta Water Treatment Plant (DWTP) and Water Distribution by employee recruitments and safety training; preparing budgets; procuring materials, chemicals, vehicles and supplies; and negotiating various maintenance and service contracts.

Chloramines were introduced into the North distribution system on January 13, 2016, in order to comply with State and Federal disinfection byproduct regulations. The South and Walnut Plant service areas continue using free chlorine as a disinfectant in the distribution systems.

Treated surface water from the DWTP provides the majority of the City's water service areas' drinking water. Water purchased from the Stockton East Water District and the City's groundwater wells supplement DWTP's surface water.

The Stockton East Water District (SEWD) was informed by the Bureau of Reclamation that they would be receiving 0% of their annual allocation from the New Melones Reservoir, but 20,000 acre-feet of water from New Hogan Reservoir and five groundwater wells within SEWD's property are available to the Stockton Area Water Suppliers, which is comprised of the City of Stockton, California Water Service Company and San Joaquin County.

The Governor's Proclamation of declaring a State of Emergency in California due to severe drought conditions has led staff to plan for extended drought conditions and increased water conservation messaging for this year. On May 5, 2015, the State Water Resources Control Board mandated the City's water utility to achieve a monthly 28% water conservation savings, using 2013 as a baseline. On May 19, 2015, an emergency ordinance was passed by the City Council for additional water conservation measures to ensure compliance with the State Water Resources Control Board's emergency water conservation measures.

In February, the City achieved a 14% reduction in water consumption when compared to the same month in 2013.

In the following sections, a summary of water conservation programs and incentives are presented.

### Outreach and Education

As part of the City's efforts to educate the community, customers are encouraged to notify the City when they witness water waste. This allows members of the community and staff to identify potential water leaks, excessive watering, and/or misuse of water supplies. This is done in an effort to work cooperatively toward a solution. There were 36 complaints received and staff was able to resolve 35 complaints. Table 1.1 provides a summary of these activities.

Outreach and education was achieved through monthly utility bill inserts, print and web-based publications. Table 1.2 illustrates the number of impressions made as part of these outreach efforts.

The San Joaquin County Master Gardener Program held a workshop on February 13. This group will continue to meet monthly at the DWTP on the second Saturday of each month.

### School Programs

Through participation in the Stockton Area Water Suppliers (SAWS), local area schools are offered onsite assemblies, in-class presentations and after-school programs. The City receives an annual report on the SAWS Water Education Program that summarizes the programs and information provided, the number of students that were reached, and feedback from teaching professionals. For the 2014/2015 school year, the SAWS Water Education Program reached a total of 28,268 students and participants; 23,538 through in-class event and after-school programs, and 4,730 through the Zun Zun assembly program.

### Water Use Surveys

In May 2009, in-home water use surveys became available to Stockton residents when staffing resources are available. This offered residents the opportunity to review one-on-one with Water Conservation staff their current water use practices and methods by which residents can save both water and money. In August 2011, self-certification water use surveys became available during times when staffing resources are limited. Through both surveys, customers are able to evaluate their water use and calculate estimated savings with the use of water efficient devices. Currently, only the self-certification water use surveys are available for customers due to limited staffing.

Table 1.3 identifies the number of surveys requested and completed. At the end of each residential survey, water efficient devices are provided to respective customers. A summary of water saving devices distributed is provided in Table 1.4.

### Incentives and Rebates

The High Efficiency Toilet (HET) Direct Install Program was approved by City Council to reduce water use by commercial, industrial, and institutional customers, and ultimately,

assist in reducing their cost of doing business. The program covered the material and installation cost of replacing older, inefficient toilets with EPA WaterSense labeled devices through local plumbing contractors. The program has exhausted its funding; and staff will recommend to the City Council the addition of funding to the program in the near future.

Table 1.5 identifies the current number of installations for this program to-date, including estimated water savings.

#### Landscape Programs

Program development continues to assist large landscape customers in identifying ways to reduce water use. Upon request, water conservation staff will meet with homeowners' associations and other large landscape users to evaluate water use and provide recommendations for improvement.

Water conservation staff continued the pilot program, which calculates and distributes ongoing water use reports to large landscape sites. These reports compare actual water use to a budget benchmark based on site-specific characteristics and real-time weather from approximately 120 sites. To date, three field surveys have been completed. Survey customers were provided with a comprehensive report of findings and recommendations. The ultimate goal of the program is to improve water efficiency among large landscape customers.

There is an internet resource, [www.stockton.watersavingplants.com](http://www.stockton.watersavingplants.com), made available free of charge through the Water Conservation Program. This website provides information on water efficient gardens, resources, and watering tips. The site also allows users to plan their own water efficient garden online. This month, there were 230 visitors to the website.

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# Water Treatment, Production, and Distribution

## Operational Activities

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The City's Delta Water Treatment and Water Distribution Divisions are responsible for the treatment, production, operation, and maintenance of the City of Stockton's Water Treatment Plant and Distribution Systems. The distribution systems use a combination of surface water - treated and delivered by the City's water treatment plant from the Sacramento/San Joaquin Delta and the Mokelumne River - groundwater wells, and surface water treated and delivered by a water wholesaler - Stockton East Water District (SEWD) - from the New Hogan and New Melones Reservoirs.

Staff is responsible for treating and distributing potable drinking water to more than 48,000 service connections. This is done through a networked, looped system of wells, reservoirs (above-ground storage tanks), pipelines, valves, and meters. The system is monitored and maintained 24/7 through electronic equipment, telemetry and manual operation. Adequate water pressure must be maintained throughout the system at all times for water quality, firefighting, industrial, commercial, and residential use. Leaks are a high priority and are usually investigated within an hour of the report. Water quality complaints, such as pressure, odor, taste, or color issues, are handled on a same-day basis.

Additional responsibilities include enforcement of the water conservation program, collecting water samples for regulatory compliance, implementation and monitoring of the City's Cross-Connection Prevention Program, manual reading more than 48,000 water meters for billing each month, investigating high bill complaints, performing fire flow tests, and the maintenance and repair of over 7,000 fire hydrants.

### Regulatory

There were two bacteriological water quality violations during the month in the North distribution system. Subsequently, six repeat samples were taken at each sampling point, and at upstream and downstream locations from the sampling point. The follow-up results from the six samples were negative.

All sampling and monitoring pursuant to the Title 22 regulations was completed. A copy of the Title 22 monitoring results is included in Appendix A. The monthly coliform monitoring report was submitted to the State Water Resources Control Board Division of Drinking Water, Stockton Office on February 9. Table 2.1 presents a summary of the Coliform Monitoring results in the distribution system.

## **Water Treatment**

DWTP treated and produced 273 million gallons and SEWD delivered 6 and 88 million gallons to the North and South distribution systems, respectively. The plant met regulatory limits for Combined Filter Effluent (CFE), maintained at 0.1 Nephelometric Turbidity Units (NTU) at all times.

## **Water Production**

San Joaquin County Environmental Health Department conducted an inspection of operational and spill response plan on chlorine storage and related safety equipment at all wells and reservoirs. Personnel performed various types of maintenance to fine tune ammonia feed equipment at well sites and NSPAF. Staff continued daily well/reservoir checks and maintenance throughout the month. Operational status for existing wells is shown on Table 2.2.

### **Water Production Summary**

Table 2.3 and Figure 2.A illustrate water production in million gallons (MG) pumped from the City's two well production systems, DWTP, and purchased water delivered to the North, Walnut Plant, and South Systems from SEWD. The SEWD North System total includes water purchased by San Joaquin County and wheeled through the City's system. Table 2.3A shows total influent for the Delta Water Treatment Plant by water source. The detail of the production report is included in Appendix A-2. The corresponding table from fiscal year 2014-2015 is presented for comparison.

### **Production/Consumption Summary**

Table 2.4 and 2.5 present the overall summary of water production and consumption for the previous month, current month, and fiscal year-to-date. The corresponding table from fiscal year 2014-2015 is presented for comparison. The metered consumption figures are not available until after all billing is completed in the City's billing system and are not included in the current month column.

Stockton East Water District City/County North System total includes water purchased by San Joaquin County from SEWD and wheeled through the City's System. This sum also includes City water wholesaled to the County.

The unmetered water consumption quantities are based upon estimates made from observations and documentation provided by other City departments.

### **Chemical/Utility Consumption Summary**

Table 2.6 presents a summary of chemical consumption in connection with operation of the production system, including the DWTP. In response to a request, the electricity totals for the wells, reservoirs, and booster station are now being reported separately. These totals are not available for the previous months. The corresponding table from fiscal year 2014-2015 is presented for comparison.

Table 2.7 presents a summary of utility consumption and outages in connection with operation of the production system, including the DWTP. Table 2.7 also shows power generated by the DWTP solar energy system. The corresponding table from fiscal year 2014-2015 is presented for comparison.

## Water Distribution

### Construction

Construction crews replaced seven 1-inch, seven 1.5-inch, and four 2-inch service lines throughout the month. Crews replaced two service saddles and replaced an 8-inch isolation valve. Construction staff continued to assist other crews replacing meters and repairing minor leaks when time permitted.

### Hydrant

Crews repaired 12 hydrants. Repairs consisted of cap, O-ring, valve gasket, chain, and coupler repair/replacement. Staff performed one fire flow test. Personnel replaced three hydrants due to vehicle accidents. Table 2.8 presents a summary of the hydrant maintenance and other duties performed by the crew. In addition, routine maintenance consisting of marker replacement, valve location and weed control continued.

### Customer Service

There were 48,864 water meters read for monthly billing. There were 703 meters turned-on or locked-off for account openings or closings. Crews responded to 13 high bill complaints. Staff continued to replace broken registers, repair damaged touch-read wires, and respond to various customer inquiries.

### Maintenance

Crews responded to 74 service calls consisting of small meter leaks, emergency customer water shut offs, and answering customer water-related questions. Staff replaced 74 meters ranging from 5/8" to 2" in size and replaced 69 registers. Personnel replaced one 3" water meter at an elementary school. Staff continued to assist customer service with monthly meter reading and construction crews on emergency service line repairs when needed.

### Distribution

Staff performed monthly backflow tests/surveys, valve exercising, and air relief valve maintenance. Table 2.9 presents a summary of the valve maintenance program. Personnel completed cathodic protection surveys on our large transmission mains. Crews completed bi-annual inspections and updates to dialysis clinics. Weekly bacteriological sampling continued throughout the month.

### System Connections

Table 2.10 presents a summary of new meter installations applied to the reading routes. There may be a delay in applying the meter to the route once it has been installed, causing a difference from the actual number of new meter installations. The total number of active meter connections by size is presented in Table 2.11.

### Water Quality Inquiries

Table 2.12 presents a summary of water quality inquiries and the corrective measures that were taken to resolve those inquiries. There were no inquiries and no taste/odor, turbidity, or suspended solids complaints.

### Customer Services Operations

Table 2.13 presents a summary of the meters read during the month, and the account openings and closings.

### Cross Connection Control Program

Table 2.14 presents the number of backflow devices in Stockton's service area and statistics for the number tested, installed, reactivated, and inactivated.

Staff continued cross connection survey efforts to identify and follow-up with water customers who are required to install backflow prevention devices on their water system. As the potential hazards are located, notices are sent to the locations with staff following-up and working to bring them into compliance. Table 2.15 presents the total number of cross connection surveys conducted for the fiscal year-to-date.

# Wastewater Treatment

## Operational Activities

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The Wastewater Treatment Division is responsible for operating and maintaining the Regional Wastewater Control Facility (RWCF). The Deputy Director of Wastewater manages the division. The Acting Director has been providing interim oversight since the position became vacant in June 2015. There are 28 Operations employees. Operations staff works 24-hours a day, 7-days a week, treating more than 20 million gallons of sewage a day before it is discharged into the Delta.

### Discharge Permit

Table 3.1 presents a summary of influent and effluent discharge averages as compared with the NPDES permit limits. The RWCF treated an average flow of 26.8 million gallons per day (mgd). Figures 3.A, 3.B, and 3.C are graphical representations of the year-to-date actual values for the flow and loading parameters. Prior year data is also shown for comparison.

### Residuals and Chemical Management

Table 3.2 presents a summary of the biosolids processed and disposed for the current month and year-to-date.

### Cake Solids

The Belt Filter Press is the wastewater treatment dewatering process that produces sludge cake solids. The sludge cake solids are collected, removed offsite, and applied to agricultural land. Figure 3.D presents actual values for the total percentage of cake solids produced. The two belt filter presses are running well. The new and refurbished presses and pumps are helping meet production, improve the operational efficiency of the plant, and reduce sludge hauling and disposal charges.

### Odor Control Practices

Bioscrubber air emissions are monitored routinely to ensure compliance with emission standards set by the San Joaquin Valley Air Pollution Control District under the Title V permit. Staff coordinates with Evoqua Water Technologies to determine dosage rates for the hydrogen peroxide addition on a weekly basis. Depending on the weather conditions, dosage rates could be determined twice per week. The proper dosage reduces the hydrogen sulfide and corrosion production in the plant influent wastewater, reducing the odors.

## **Oxidation Pond Levels**

Table 3.3 presents a summary of the Tertiary Pond operating levels. This advanced secondary treatment process provides for increased metal removal from the effluent water, along with operational flexibility and storage capacity. The minimum level of freeboard in the tertiary treatment ponds is a requirement of the plant's NPDES permit and is monitored daily.

## **Chemical and Utility Consumption**

Various chemicals are used in the treatment process. Chlorine and aqueous ammonia are used for disinfection. Polymer is used for coagulation to increase the removal of solids in various processes throughout the plant. Sulfur dioxide is used to neutralize the chlorine used to disinfect the effluent prior to discharge to the river thus protecting water quality and wildlife. Staff has coordinated the installation of a new holding tank and pumps for the use of sodium bisulfite (SBS) in place of sulfur dioxide. Progress is being made on the development of the operating software necessary to control the SBS feed. Hardware testing of the SBS system components is ongoing. The system will use a 40% solution of SBS for dechlorination of the final effluent. Sodium hydroxide is used to raise the pH to meet the permit requirements for discharge. Table 3.4 presents a summary of the chemical consumption for the wastewater treatment facilities. Table 3.5 summarizes the utility consumption at the RWCF.

# Wastewater Collection Systems

## Operational Activities

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The primary responsibilities of the Wastewater Collection Systems Division are the maintenance, repair, and response to community concerns as they relate to the sanitary sewer systems within the City of Stockton.

Work orders are generated daily to address routine maintenance issues and public concerns. Each work order is categorized and addressed according to its priority.

Sanitary line maintenance work is driven by the Consent Decree<sup>1</sup> and preventive maintenance activities. The main focus of the daily activities are systematic cleaning of the sanitary system, followed by closed circuit television (CCTV) inspections, and responding to customer issues with the lower lateral.

Sanitary pump station maintenance is focused on repair and rehabilitation of the deteriorating infrastructure and implementing preventive maintenance measures. The current emphasis is on the testing, maintenance, repair, and replacement of air relief valves (ARV).

## Regional Water Quality Control Board (RWQCB)

Eleven Sanitary Sewer Overflows (SSOs) occurred. Ten were Category 3 SSOs, and one was a Category 2 SSO. All pipes and areas affected were cleaned to ensure capture and return of the pollutants to the sanitary sewer system.

Details of the immediately reportable SSOs are listed in Table 4.1, with annual trend comparisons in Figures 4.A through 4.C.

Sanitary Sewer Overflows are categorized as follows:

*Category 1 SSO* – Discharges of untreated or partially treated wastewater of any volume resulting from a City's sewer system failure or flow condition that:

- Reach surface water and/or reach a drainage channel tributary to a surface water, or
- Reach a Municipal Separate Storm Sewer System (MS4); are not fully captured and returned to the sanitary sewer system; or not otherwise captured and disposed of properly. Any volume of wastewater not recovered from the MS4 is

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<sup>1</sup> The Consent Decree is a negotiated settlement with the California Sportfishing Protection Alliance (CSPA). The Consent Decree requires specific maintenance schedules for sewer pipe to reduce sanitary sewer overflows (SSOs).

considered to have reached surface water, unless the storm drain system discharges to a dedicated stormwater or groundwater infiltration basin (e.g., infiltration pit, percolation pond).

**Category 2 SSO** – Discharges of untreated or partially treated wastewater greater than or equal to 1,000 gallons resulting from a City sanitary sewer system failure or flow condition that does not reach surface water, a drainage channel, or the MS4 unless the entire SSO discharged to the storm drain system is fully recovered and disposed of properly.

**Category 3 SSO** – Category 3 SSOs are all other discharges of untreated or partially treated wastewater resulting from a City sanitary sewer system failure or flow condition.

## **Activities Summary**

### **Collection System**

Collections work included line cleaning, CCTV inspection, main line and lower lateral repair, and preventive maintenance. This work is in accordance with the Consent Decree. SSO records indicate continued problems with lower lateral sections of the City's pipes. Staff has initiated a program to proactively address maintenance issues with the lower laterals. The summary of maintenance work performed is shown in Table 4.2 and a comparative table of prior year activities is also presented for comparison.

### **Customer Service**

Table 4.3 presents a summary of the customer services activities performed. A table of prior year activities is also presented for comparison.

### **Residuals Management**

Table 4.4 presents a summary of spoils activities (material taken to a dumpsite) in the repair and maintenance of the stormwater and wastewater pumping stations, and the RWCF. Data is gathered on how many loads of spoils are removed from the plant site, and the tonnage of all the loads hauled.

### **Odor Control Program**

The City is continuing the odor and corrosion control pilot project on sanitary systems 7 & 8. There were no odor complaints this month. In the event there is an odor complaint, staff investigates to confirm if the odor complaint is associated with the City's sanitary sewer system and identify specific pipeline segments where the odors are coming from.

### **Pumping Facilities**

Preventive maintenance on the sanitary stations continued. Pump impeller inspection and pump housing de-ragging continued at various sanitary sewer stations on a daily basis to keep the stations operating efficiently. Table 4.5 and 4.6 summarizes collection systems pump station maintenance activities.

In addition, the following work was performed:

- Repaired a coupler on the #3 sewage pump at the Cumberland Sanitary Pump Station.
- Maintained and controlled the bypass system at the North Pump Sanitary Station for station repairs.
- Rebuilt the #3 sewage pump at the North Pump Sanitary Station.
- Rebuilt the driveline for the #3 sewage pump at the North Pump Sanitary Station.

#### Wastewater Facility

Preventative maintenance work continued at the Main Plant and Tertiary facility to ensure all treatment processes are checked regularly and run properly. Part of those activities is to maintain the cogeneration engines to off-set the amount of power purchased for operations. Table 4.7 provides a breakdown of preventative and corrective maintenance activities at the Main Plant and Tertiary Plant. Maintenance and repair activities are ongoing, with highlights of recent activities including:

- Cleaned and inspected the effluent primary pipe to prepare for slip-line repairs.
- Repaired the primary sedimentation bypass gate.
- Removed and repaired the actuator for air compressor #2 at the Main Plant.
- Removed and replaced the pressurization pump on Dissolved Air Flotation Thickener (DAFT) tank # 2.

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# Environmental Control

## Operational Activities

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The Environmental Control Division (EC) is tasked with the responsibility of protecting the City's wastewater collection system, treatment plant, and biological treatment processes from interference, pass-through, and sludge contamination. This is accomplished through a system of permitting, monitoring, and enforcement of regulated sewer dischargers. Permitted users include significant industrial dischargers, categorical industrial users, groundwater remediation project discharges, and hauled waste discharges.

Staff conducts inspections, takes samples of wastewater, reviews self-monitoring reports, writes permits, and enforces permit requirements as specified in Stockton Municipal Code, Chapter 13.08 (Pretreatment Ordinance).

Staff is also tasked with implementing the Fats, Oils, and Grease (FOG) Control Program. This program involves inspecting all food service establishments in the City's sewer service area to ensure compliance with Stockton Municipal Code Chapter 13.40 (FOG Control Ordinance).

Staff responds to stormwater illicit discharge complaints and hazardous material spills, which potentially threaten the City's stormwater collection system and receiving waters. These responses are required to ensure public safety, environmental protection, and compliance with Stockton Municipal Code Chapter 13.16 (Stormwater Ordinance).

## Reports/Statistics

Table 5.1 represents statistics of all pretreatment, waste hauler, stormwater, and FOG Program activities on a monthly basis. Some items reflect the previous month's data due to the timing of when the data is received.

There were seven pretreatment enforcement actions, three stormwater complaints, and one stormwater enforcement action.

There was a slight decrease to FOG initial inspections and a slight increase to FOG follow-up inspections in comparison to last month.

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# Laboratory

## Operational Activities

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The Laboratory Division collects and analyzes samples for National Pollutant Discharge Elimination System (NPDES) permit compliance for the Wastewater Division, and analyzes and oversees contract lab analyses for Title 22 compliance for the Water Division.

The Regional Wastewater Control Facility (RWCF) Laboratory located at 2500 Navy Drive is certified under the California State Water Resources Control Board Environmental Laboratory Accreditation Program (ELAP) Certificate #2693 in the following fields of testing:

Field of Testing 101: Microbiology of Drinking Water

Field of Testing 102: Inorganic Chemistry of Drinking water

Field of Testing 107: Microbiology of Waste Water

Field of Testing 108: Inorganic Chemistry of Waste Water

Field of Testing 113: Whole Effluent Toxicity of Wastewater

The staff consists of the laboratory supervisor, a microbiologist (currently vacant), two chemists, and three laboratory technicians.

## Wastewater Sampling and Analyses

### Effluent Monthly Acute Static-renewal Toxicity Testing with Rainbow Trout

The monthly test had 100% survival of Rainbow Trout. Results are shown in Table 6.1. Analyses were done by Pacific EcoRisk Laboratory (PERL).

### Effluent Quarterly Chronic 3-Species Toxicity Testing – Accelerated Testing

Routine quarterly testing was done in November 2015. Results of the testing are shown in Tables 6.2, 6.3, and 6.4. No toxicity was found.

The next quarterly monitoring is scheduled for March 2016.

### Effluent Ammonia Testing

The Waste Discharge Requirements (WDR) contains a requirement to monitor the treatment plant effluent three times a week. For December through March, the permit contains limits of monthly average (2.4 mg/L) and daily maximum (9.6 mg/L)

requirements. There were no daily maximum limit exceedances as shown on Table 6.5. The monthly average was < 1.0 mg/L, the monthly maximum was 2.7 mg/L.

## Drinking Water Sampling and Analysis

Routine domestic water quality for finished water and raw water wells was completed. Two sites with results of Total Coliform and E.coli positives had exceeded the regulatory limits.

Picture of the cracked sample bottle on 02-02-2016/T0748 ND 1 @ 2853 Sunflower, witnessed by Laura Voss, David Callus, Elaina Weaver, and Jerry Tamura. State did not authorize RWCF Lab to invalidate the Total Coliform and E.Coli positive results.



## Laboratory Operations

The lab analyzed 798 samples for 2,452 analyses. Contract labs analyzed 126 samples for 718 analyses. Figures 6.A and 6.B display the results of the samples and analyses. Figure 6.C shows the number of samples processed for permit compliance, process control (plant performance), and drinking water regulatory compliance. There were 170 samples for NPDES Permit compliance, 195 samples for process control, and 433 samples for drinking water compliance.

The lab continues to provide on-going support for additional sampling and analyses to a consultant working on Wastewater permit compliance items.

# Engineering

## Operational Activities

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The primary responsibilities of the Engineering Division are management and execution of the Department's Capital Improvement Program (CIP) and Development Services.

Development-related submittals are received daily from Public Works, Community Development, other City Departments, and government agencies. The submittals, collectively called "development reviews," encompass environmental documents, fiscal impact analysis reports, feasibility analyses, utility master plans, engineering reports, improvement plans, permit applications, tentative subdivision maps, and parcel maps. Development reviews are assigned to individual engineers within the Engineering Division with specific completion dates.

The Department's CIP consists of the master planning, budgeting, design, competitive bidding, and construction management of capital improvement projects involving water, sanitary sewer, storm drainage, and non-potable water. Engineering offers the full array of CIP services, including computer-aided design and drafting, modeling, and construction administration and inspections.

Figure 7.A represents the number of development submittals received and completed on a weekly basis. The amount of development reviews received in a particular week may not coincide with the number completed in the same week because of differing complexities and review times required for the submittals. There were 26 development reviews received and 14 completed and returned. In fiscal year 2014-2015, 125 development reviews were completed.

## Development Review Projects

Short descriptions of the development reviews received this month are as follows:

- Land Development Permit – 1740 Pacific Avenue
- Land Development Permit – 1755 W. Hammer Lane, Suite 3
- Request for Utility Service – 561 W. Yettner Road, French Camp
- Request for Utility Service – 605 W. Yettner Road, French Camp
- Storm Water Quality Control Plan – Chick-fil-A Restaurant, 2628 W. March Lane
- Storm Water Quality Control Plan – Dollar Tree Distribution Center, Weston Ranch
- Storm Water Quality Control Plan – Dutch Bros. Coffee, 1655 Pacific Avenue
- Storm Water Quality Control Plan – Panera Bread, 4932 Pacific Avenue

- Storm Water Quality Control Plan – Stockton VW
- Storm Water Quality Control Plan – Stockton Kia
- Temporary Activity Permit – 1010 & 1032 E. Hammer Lane
- Tentative Map – Elderberry, West side of Lower Sacramento Road and South of Eight Mile Road
- Use Permit – 1348 N. Center Street
- Use Permit – 8414 Neubourg Drive
- Use Permit – Starbucks, 3011 W. Benjamin Holt
- Use Permit – 10012 Trinity Parkway
- Use Permit Revision – 2057 E. Main Street
- Utility Verification Request – Slurry Seal Local Roads 2015-2016
- Utility Verification Request – 2501 E. Lafayette Street
- Utility Verification Request – 6009 N. El Dorado Street
- Utility Verification Request – Smith Canal Gate Closure
- Utility Verification Request – Fourteen Mile Slough, 5414 Feather River Drive
- Utility Verification Request – 1521 & 1541 W. Charter Way
- Utility Verification Request – West Park Self Storage Facility, Trinity Parkway
- Utility Verification Request – Delta College Main Campus
- Utility Verification Request – Atlanta Circle areas

Figure 7.B represents the number of development reviews received and completed since the start of the 2015-2016 fiscal year.

## **Capital Improvement Project Milestones**

The Engineering Division has 31 budgeted CIPs in fiscal year 2015-2016. Table 7.1 is a graphic summary of the most active, current CIPs.

Upcoming and completed milestones for a few, select CIP projects are listed below with an updated status for each project.

### Capital Improvement and Energy Management Plan EIR (M12019)

Robertson Bryan, Inc. is in the process of including Nitrate permit requirements into the Environmental Impact Report (EIR). The preparation of the EIR is temporarily on hold pending procurement efforts for the Design Build firm to perform the work contained in the Capital Improvement and Energy Management Plan (CIEMP).

The preferred firm has been selected and negotiations regarding the contract and scope are currently in process for the Progressive Design-Build Services for the Regional Wastewater Control Facility Project for the design and construction of projects identified in the 2011 Capital Improvement and Energy Management Plan.

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CAT Engine Replacement – Phase I & II (M08001)

Small engines and generators have been removed. The motor control center for the electric motor has been fabricated. Electric motors for Water Well 25 are currently being installed. PG&E has notified individuals affected by the removal of existing transformer at Well 25. The transformer switch at Water Well 25 was successfully completed on March 30, 2015. PG&E negotiations with East Bay MUD for right-of-way has been completed; PG&E's plans to provide electrical service to Well 26 is currently being revised to incorporate needed change.

Pershing Sewer Crossing at the Calaveras River (M13005)

The design phase is nearing completion; the environmental documents are still in a draft state. Construction for the project has been moved to early fiscal year 2016-2017.

Highway 99 at Farmington Fresh Sewer Replacement (M14034)

The project is in the design phase. Final plans are being reviewed in preparation for bidding in the near future.

Feather River Water Main Crossing at 14-Mile Slough (M07056)

The permit application was sent to Central Valley Flood Protection Agency (CVFPA); plans and specifications are 100% complete. CVFPA is awaiting additional information to issue the permit.

Eighth Street Storm Water Pump Station (M13014)

The project has been awarded and construction is ready to commence in March 2016.

Rehabilitate Don Avenue and Thornton Road Sanitary Pump Stations (M13009 & M13010)

The designs are 100% complete. Plans have been received from the consultant. Specifications are being prepared and an internal review is being performed prior to project bidding.

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# Stormwater

## Operational Activities

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The Stormwater Division is responsible for ensuring compliance with the City's municipal Stormwater National Pollutant Discharge Elimination System (NPDES) permit. The NPDES program is mandated by the Federal Clean Water Act, and administered in California by the State Water Resources Control Board and the Regional Water Quality Control Boards (RWQCB) on behalf of the U.S. Environmental Protection Agency (USEPA). The primary goals of the program are water quality protection and to improve local water quality to the maximum extent practical.

Activities of the Stormwater Division include permit mandated programs and activities; collection system inspection, maintenance and repair; catch basin inspection and cleaning; pump station repair, maintenance and rehabilitation; and response to community concerns as they relate to the stormwater systems within the City of Stockton. With limited resources, it can be difficult to meet the maintenance needs of the aging stormwater infrastructure. On average, 50% of stormwater pump station's wet wells are cleaned annually. Preventive maintenance measures are used to identify the most urgent areas. Closed Circuit Television (CCTV) inspection of the discharge lines from each station has commenced and will continue at the request of San Joaquin County Flood Control.

The City's storm drain system collects water from numerous nonpoint sources (i.e., water pollution that cannot be attributed to a discernible source; and excess fertilizers, oils, grease, and other pollutants on the ground that are transported by stormwater) that discharge into local waterways and into the Delta. The City complies with the requirements of its NPDES permit by implementing various stormwater pollution prevention activities, including:

- Ensuring pollutants stay out of the storm drain system, creeks, and the Delta
- Managing and enforcing the City's Municipal Code to minimize stormwater impacts
- Requiring new development projects mitigate any impacts to the stormwater system
- Requiring development projects incorporate various structural and non-structural control measures, commonly referred to as Low Impact Development features, where feasible to restore the natural hydrological watershed processes (i.e., infiltration), such as treatment of stormwater prior to discharge offsite and/or detain stormwater prior to discharge to protect waterways from increased flows throughout the anticipated life span of the developed site.

- Promoting pollution prevention awareness
- Providing education programs and outreach to the public
- Supporting local nonprofit creek groups
- Inspecting businesses to ensure responsible stormwater-related practices
- Investigating and responding to illicit discharges

### Stormwater System

The downtown business area is being inspected monthly and cleaning of the areas surrounding the catch basins completed on as-needed basis to minimize trash and debris entering the storm system.

Table 8.1 presents a summary of the stormwater system maintenance and repair activities. A table of prior year activities is also presented for comparison.

### Pumping Facilities

In addition to the regular preventive maintenance activities at the storm stations, the following repairs were made.

- Repaired and installed the #1 motor at the Center Street Storm Station to bring the station back to full pumping capabilities.
- Reinstalled security cameras and added preventive measures to protect the security system at the Anderson Street Storm Station.
- Dewatered the wet well to sanitary system at the Bianchi Storm Station to clean out the wet well after a sanitary sewer overflow.

### Permit Compliance

Staff continues to participate in meetings hosted by RWQCB staff on the possible future shift in program structure to a Central Valley Region-Wide Stormwater NPDES Permit. This “interim” permit adopted by the RWQCB on April 17, 2015, allows the City to participate in the Delta Regional Monitoring Program in lieu of some current water sampling/monitoring requirements of the former permit. Staff worked this month on the development of a proposed alternative monitoring plan. This “Interim” permit would remain in effect until the language of a new regional permit can be fully drafted and negotiated.

### Stormwater Inspections

Inspections of construction sites continue to be a priority for the City of Stockton. There were 24 stormwater inspections conducted at active construction sites. There were 13 Verbal Warnings, ten Correction Orders, and seven Notices to Clean. No referrals were sent to the Regional Water Quality Control Board during this period.

Inspections of industrial, commercial facilities and residential complaints and field observation resulted in no Administrative Citations. No citations were referred to the Regional Water Quality Control Board during this period.

Table 8.3 presents a summary of the stormwater inspections. A table of prior year inspections is also presented for comparison.

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# Administration

## Operational Activities

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The Administration division is responsible for the overall operation of the Municipal Utilities Department, including personnel, purchasing, public outreach, health and safety, regulatory compliance, finance, budgeting, and accounts payable.

### Health and Safety

The Health and Safety program monitors the training and safety activities of the Department. Unsafe conditions, unsafe activities by staff or contractors, and accidents are tracked and reported according to Cal/OSHA guidelines. Table 9.1 provides a summary of unsafe conditions or acts that occurred during the month, along with a running total for the year. Table 9.2 provides information on work-related injuries and illnesses. This continuously evolving program responds to the needs of staff to work in a safe and accident free environment. It is important to note that Cal/OSHA requires reporting on a calendar year. All statistics and data noted for the Health and Safety program are from January through December.

To promote safe work habits and to comply with Cal/OSHA requirements, regular tailgate safety meetings are held in all divisions. Topics vary depending on the needs and work requirements of each division. Specialized training is also provided to ensure that proper work habits and techniques are used in all work situations. Table 9.3 provides a summary of the tailgate and specialized training provided.

#### Safety Activities

The following safety activities occurred during the month: one unsafe conditions, four vehicle accidents reported, and three work-related injuries.

There were 270 safety-training hours provided to staff through tailgate sessions and specialized training.

### Human Resources

#### Staffing Activities

Recruitment activities continue on an ongoing basis to fill vacated and recently approved positions. MUD is currently staffed at 196 of the approved 217 positions. Table 9.4 presents the staffing changes by division.

The status of various positions attempted to be filled is shown below.

Positions in Active Recruitment / Background Check / Civil Service Commission

- Deputy MUD Director/Wastewater (pre-employment process)
- MUD Finance Officer (pre-employment process)
- Occupational Health and Safety Compliance Specialist (pre-employment process)
- Office Specialist (pre-employment process)
- Senior Plant Operator/Water (pre-employment process)
- Electrical Technician II (pre-employment process)
- Plant Maintenance Mechanic (active recruitment)
- Microbiologist (active recruitment)
- Project Manager I (pre-employment process)
- Collection Systems Operator (pre-employment process)
- Plant Maintenance Supervisor (active recruitment)
- Plant Maintenance Machinist (active recruitment)

Positions Filled / Department Transfer

- Program Manager II
- Laboratory Technician

Resignations / Separations / Retirements

- Microbiologist

Overtime Tracking

Overtime hours are tracked as part of the Department's internal monitoring. This information helps determine if the Department is at appropriate staffing levels, and where and when work demand is spiking. Because of the 24-hour shift work at the RWCF, overtime is expected to spike during holidays, closed days, and vacations to maintain adequate staffing for operations.

Table 9.5 details the overtime hours for each division to-date. For comparison, the total overtime hours for fiscal year 2014-2015 are also shown below Table 9.5. Overtime increased from the previous month.

## Regulatory Compliance

The Regulatory Compliance Officer is responsible for assisting all Municipal Utilities Department divisions in achieving general compliance with local, state, and federal regulations originating from the Federal Clean Water Act, the Federal Safe Drinking Water Act, the Federal Clean Air Act, the Federal Resource Conservation and Recovery Act, and associated environmental laws. The Regulatory Compliance Officer coordinates with all local, state, and federal regulators, and MUD divisions, as well as other City of Stockton departments to accomplish environmental compliance across the wastewater, drinking water, and stormwater utilities.

### Inspections/Report Submissions

Industrial Railways Company performed the monthly inspection at the Tertiary Facility rail spur on February 29. There were no deficiencies identified.

The United States Department of Transportation Federal Rail Road Administration and the State of California Public Utilities Commission Rail Operations Safety Division came and inspected the Rail Tracks on February 2.

The San Joaquin County Environment Health Department performed a Risk Management Plan inspection of the Risk Management Plan/California Accidental Release Prevention (RMP/CALARP) program on February 9, 11, and 15. The inspector surveyed 28 facilities.

### Facility Tours

There were two tours for eight visitors of the RWCF and Tertiary Plant.

There were two tours for five visitors of the Wetlands.

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## Reference

## Tables and Figures

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## Water Resources

Table 1.1 – Water Waste Complaints

<i>Water Conservation</i>	<i>Month-to-Date</i>			<i>Fiscal Year-to-Date Completed</i>
	<i>New</i>	<i>Open</i>	<i>Closed</i>	
<b>Complaints</b>				
Broken Sprinklers / Irrigation Leaks/ Other Leaks	6	1	5	70
Over-irrigation / Water Run-off	7	0	7	159
Watering during Restricted Hours	0	0	0	45
Watering on a Restricted Day	18	0	18	847
Invalid/Unable to Verify	0	0	0	21
Other Conservation Calls	5	0	5	41
<b>Totals</b>	<b>36</b>	<b>1</b>	<b>35</b>	<b>1183</b>
Pool Filling or Drain and Refill	2	0	2	43
<b>Totals</b>	<b>38</b>	<b>1</b>	<b>37</b>	<b>1226</b>

Table 1.2 – Water Conservation Outreach

Description	Type	Date(s)	Impressions
Stockton.watersavingplants.com	Website	February	75
Utility Bill Insert	Print Media	February	0

Table 1.3 – Water Conservation Surveys

<i>Survey Type</i>	<i>Requested / Pending</i>	<i>Completed</i>
In-Home Single Family	0	0
In-Home Multi-Family	0	0
REACON Business	0	0
Self-Certified Surveys	0	0
Other	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>
<b>FY-to-Date</b>	<b>0</b>	<b>0</b>

Table 1.4 – Water Saving Devices

<i>Device Description</i>	<i>Quantity Distributed</i>	<i>Fiscal Year-to-Date</i>
Low Flow Showerhead	0	0
Low Flow Faucet Aerators	0	0
Toilet Flapper	0	0
Leak Detection Tablet Packets	0	0
Positive Shut-off Hose Nozzles	0	0
Water-efficient Plant Seed Packets	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>

Table 1.5 – HET Direct Install Program

<i>Device Description</i>	<i>Devices Installed</i>	<i>Water Savings (in Acre Feet)</i>
High Efficiency Toilet (Commercial)	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>
<b>*FY-to-Date</b>	<b>0</b>	<b>0</b>
<b>Program-to-Date (since February 2010)</b>	<b>394</b>	<b>364.167</b>

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## Water Treatment, Production, and Distribution

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Table 2.1 - Summary Coliform Monitoring

<i>Routine Samples</i>	<i># Required</i>	<i># Taken</i>	<i>Total Coliform Positive</i>	<i>E. Coli Positive</i>
North System	128	134	2	2
Walnut Plant	1	1	0	0
South System	24	24	0	0

Table 2.2 – Well Operational Status

Well #	Well Station Location	DPH In Service Status			Well Status if Limited Use or Not Available for Operation				Emergency Use Only
		Active	Stand-by	Inactive	Exceeds Sec MCL	Arsenic	Bacti	Mechanical	
<b>NORTH WELL SYSTEM</b>									
1	Parkwoods		X		X		X		
4	Villa Dorado		X		X				
7	Galloway	X					X		
9	Don Carlos			X			X		
10R	Valverde Park	X							
11	Inglewood		X		X				
15	Glasgow		X		X				
16	Royal Oaks		X		X				
18	Hickock	X							
19	Morada/West Ln	X							
20	West Ln/Mosher	X							
21	Cortez Park	X							
24	Saffron	X			X				
25	Panella Park	X							
26	Auto Center		X				X	X	
27	Horse Park	X							
28	Blossom Ranch	X					X		
29	Baxter Park	X							
30	Grider	X							
31	Ivano Ln	X							
32	Hwy 99 Frontage	X							
33 (3-R)	West Ln @ WFO	X							
NWR	Northwest Reservoir	X							
14 Mile	14 Mile Reservoir	X							
<b>SOUTH WELL SYSTEM</b>									
SS1	Qantas	X							
SS2	N Arch Frontage	X							
SS3	Frontier	X							
SS4	Airport South			X		X			
SS5	Airport North			X	X				
SS8	Shropshire Park	X							
SS9	B St & Littlejohn	X							
WSTN	Weston Ranch Res	X							
SSA	South Sys Aqueduct	X							
<b>INTERCONNECTIONS</b>									
Cal Wtr	Airport Wy/Industrial	X							X
Cal Wtr	Airport/Sperry	X							X
Cal Wtr	El Dorado (S of March)	X							X
Cal Wtr	Filbert/Marsh	X							X
Cal Wtr	Filbert/Miner	X							
Cal Wtr	Diamond/Charter	X							
Cal Wtr	El Dorado (March/Pardee)	X							X
Cal Wtr	Pershing/Longview	X							X
Cal Wtr	Zephyr (Future/not connected)			X					-
Lathrop	Roth/Harlan	X							X
SJ Cty	Balboa	X							
SJ Cty	Greeley Wy/Lincoln	X							
SJ Cty	Swain/Grigsby Pl	X							X
SJ Cty	Pershing/Lincoln Rd	X							X
SJ Cty	Hammer / Misty Ln	X							X
SJ Cty	Pershing Av (S of Ben Holt)	X							
SJ Cty	Plymouth Rd/Rutledge	X							
SJ Cty	Portola Av	X							
SJ Cty	Thornton Rd	X							

Table 2.3 – Production Summary (in Million Gallons)

	System	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Year to Date
	No. Sys	188.57	221.80	172.46	225.32	77.90	45.72	64.90	89.45					1,086.12
	So. Sys	60.17	0.52	4.38	27.36	1.25	0.00	20.26	2.63					116.57
	DWTP	654.19	526.24	532.05	412.57	169.81	123.07	251.21	272.99					2,942.13
	SEWD WP	5.69	5.41	6.13	5.76	5.26	4.50	3.95	3.80					40.50
	SEWD/North	9.70	43.50	31.57	12.82	189.45	226.84	38.95	6.17					559.00
	SEWD/South	57.13	168.45	159.15	113.33	109.50	99.63	74.61	87.61					869.41
	<b>Total</b>	<b>975.45</b>	<b>965.92</b>	<b>905.74</b>	<b>797.16</b>	<b>553.17</b>	<b>499.76</b>	<b>453.88</b>	<b>462.65</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>5,613.73</b>

Production Summary Comparison Year 2014-2015 (in Million Gallons)

	System	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Year to Date
	No. Sys	364.30	288.40	106.61	29.36	25.70	16.41	33.36	138.20	168.71	241.19	162.68	161.99	1,736.91
	So. Sys	25.91	5.04	6.71	3.59	2.43	1.93	5.45	11.12	61.99	58.40	42.97	48.36	273.90
	DWTP	429.95	450.92	498.64	413.89	281.88	251.73	220.93	159.20	300.63	297.52	525.22	659.16	4,489.67
	SEWD WP	8.75	6.84	6.19	6.98	4.90	4.08	3.81	3.20	4.44	4.56	5.27	5.74	64.77
	SEWD/North	261.73	251.05	307.36	375.75	182.56	101.93	84.08	34.94	28.19	39.85	19.70	0.00	1,687.14
	SEWD/South	207.73	206.17	181.07	155.11	103.50	91.17	79.77	72.11	53.87	73.80	63.13	0.00	1,287.43
	<b>Total</b>	<b>1,298.37</b>	<b>1,208.42</b>	<b>1,106.58</b>	<b>984.68</b>	<b>600.97</b>	<b>467.25</b>	<b>427.40</b>	<b>418.77</b>	<b>617.83</b>	<b>715.32</b>	<b>818.97</b>	<b>875.25</b>	<b>9,539.82</b>

■	City North System Wells
■	City South System Wells
■	Delta Water Treatment Plant (DWTP)
■	MLK Diamond & Filbert Interconnect (SEWD) City Walnut System
■	Stockton East Water District (SEWD) City / County North System
■	Stockton East Water District (SEWD) City South System

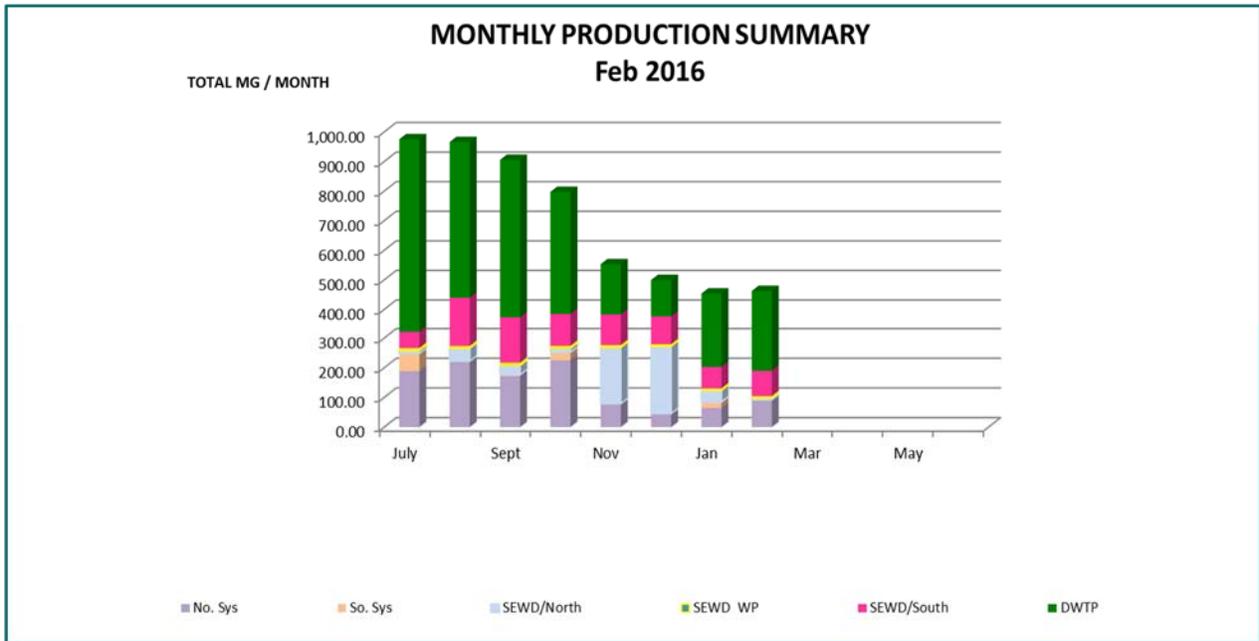
Table 2.3A – DWTP Influent by Water Source (in Million Gallons)

DWTP Influent by Source	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	YTD
San Joaquin River/Delta	322.42	426.26	423.81	312.42	123.83	85.92	251.86	270.94					2,217.46
Mokelumne River/WID	214.01	-	0.00	-	0.01	-	-	-					214.03
Total Influent (DWTP)	536.43	426.26	423.81	312.42	123.85	85.92	251.86	270.94	-	-	-	-	2,431.49

DWTP Influent by Water Source Year 2014-2015 (in Million Gallons)

DWTP Influent by Source	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	YTD
San Joaquin River/Delta	199.02	137.05	85.12	169.66	217.11	182.57	152.66	112.39	33.76	-	88.31	259.47	1,637.11
Mokelumne River/WID	151.90	262.42	372.32	204.53	-	-	-	-	242.65	282.75	411.47	316.15	2,244.18
Total Influent (DWTP)	350.92	399.47	457.44	374.19	217.11	182.57	152.66	112.39	276.41	282.75	499.78	575.61	3,881.29

Figure 2.A – Production Summary



Production Summary Comparison Year 2014-2015

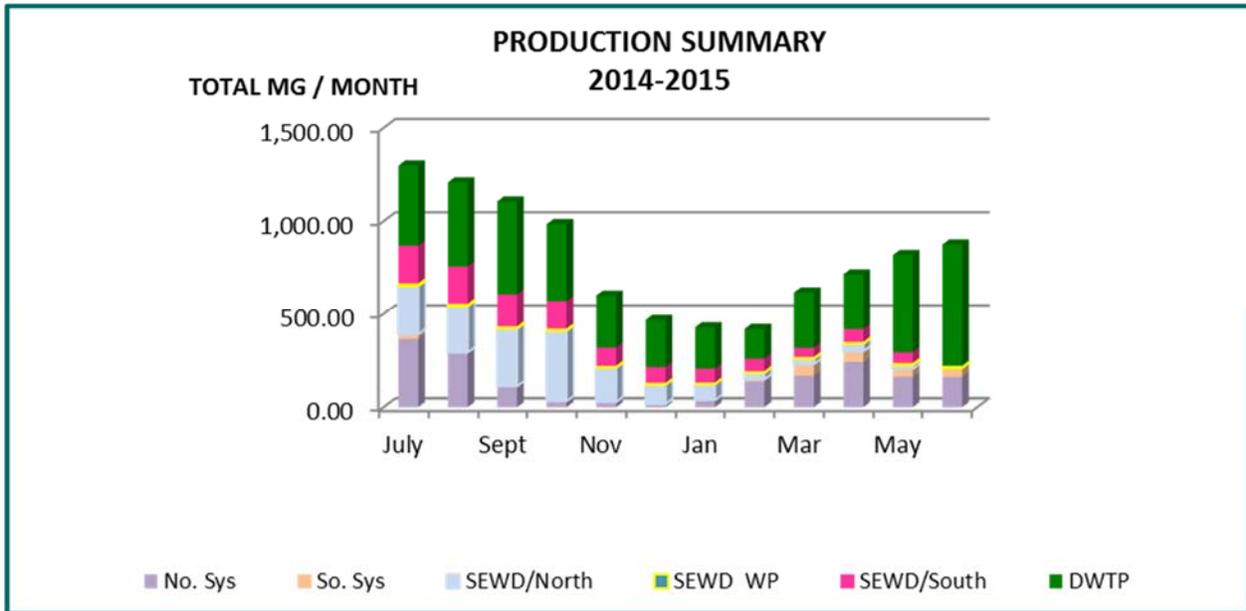


Table 2.4 – City of Stockton Water Systems –Production Summaries

PRODUCTION (Million Gallons)	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	YTD
City System Potable Water Production													
City North System Wells	188.57	221.80	172.46	225.32	77.90	45.72	64.90	89.45					1,086.12
City South System Wells	60.17	0.52	4.38	27.36	1.25	-	20.26	2.63					116.57
Delta Water Treatment Plant	654.19	526.24	532.05	412.57	169.81	123.07	251.21	272.99					2,942.13
MLK Diamond & Filbert Interconnect (SEWD) City Walnut System	5.69	5.41	6.13	5.76	5.26	4.50	3.95	3.80					40.50
Stockton East Water District (SEWD) City/County North System	9.70	43.50	31.57	12.82	189.45	226.84	38.95	6.17					559.00
Stockton East Water District (SEWD) City South System	57.13	168.45	159.15	113.33	109.50	99.63	74.61	87.61					869.41
Total City System	975.45	965.92	905.74	797.16	553.17	499.76	453.88	462.65	-	-	-	-	5,613.73
System - Nonpotable Water Production													
Recycle Water (Reclaimed WW)	-												-
Total Production	975.45	965.92	905.74	797.16	553.17	499.76	453.88	462.65	-	-	-	-	5,613.73

2014-2015 –Production Summaries

PRODUCTION (Million Gallons)	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	YTD
City System Potable Water Production													-
City North System Wells	364.30	288.40	106.61	29.36	25.70	16.41	33.36	138.20	168.71	241.19	162.68	161.99	1,736.91
City South System Wells	25.91	5.04	6.71	3.59	2.43	1.93	5.45	11.12	61.99	58.40	42.97	48.36	273.90
Delta Water Treatment Plant	429.95	450.92	498.64	413.89	281.88	251.73	220.93	159.20	300.63	297.52	525.22	659.16	4,489.67
MLK Diamond & Filbert Interconnect (SEWD) City Walnut System	8.75	6.84	6.19	6.98	4.90	4.08	3.81	3.20	4.44	4.56	5.27	5.74	64.76
Stockton East Water District (SEWD) City/County North System	261.73	251.05	307.36	375.75	182.56	101.93	84.08	34.94	28.19	39.85	19.70	-	1,687.14
Stockton East Water District (SEWD) City South System	207.73	206.17	181.07	155.11	103.50	91.17	79.77	72.11	53.87	73.80	63.13	-	1,287.43
Total City System	1,298.37	1,208.42	1,106.58	984.68	600.97	467.25	427.40	418.77	617.83	715.32	818.97	875.25	9,539.81
System - Nonpotable Water Production													-
Recycle Water (Reclaimed WW)	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Production	1,298.37	1,208.42	1,106.58	984.68	600.97	467.25	427.40	418.77	617.83	715.32	818.97	875.25	9,539.81

Table 2.5 – City of Stockton Water Systems –Consumption Summaries

(Million Gallons)	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	YTD
<b>City System - Metered Consumption</b>													
Single Family Residential	521.55	501.91	451.90	443.00	353.84	273.55	243.38	N/A					2,789.13
Multi-family Residential	85.38	84.67	79.40	75.87	68.86	60.02	66.64	N/A					520.84
Commercial/Institutional	135.22	130.94	113.43	118.68	91.54	71.09	69.02	N/A					729.92
Irrigation	93.91	94.08	91.70	89.91	51.98	16.38	8.76	N/A					446.72
Non-potable Water	-	-	-	-	-	-	-	-					-
Const/Hydrant/Jumpers/Load Counts	0.75	1.61	0.38	0.20	0.17	0.32	0.58	0.38					4.39
Other (Industrial)	23.48	19.91	20.89	20.52	17.30	19.25	17.89	N/A					139.24
Subtotal Metered	860.29	833.12	757.70	748.18	583.69	440.61	406.27	0.38	-	-	-	-	4,630.24
<b>City System - Unmetered Consumption</b>													-
Main Line / Service Repair Losses	0.76	0.21	1.30	0.22	0.38	0.36	0.60	0.46					4.29
Commercial/Residential Construction Usage	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01					0.08
City Trucks/Parks Trucks/Street Sweepers	0.06	0.07	0.09	0.06	0.06	0.08	0.09	0.10					0.61
Hydrant / Blow-off Flushing	0.01	0.02	0.04	0.01	0.02	0.02	0.03	0.04					0.19
System Flushing	0.14	0.10	0.01	0.30	0.80	0.03	0.34	0.10					1.82
City Fire Dept. Fire Flow	0.01	0.01	0.01	0.01	0.01	0.04	0.02	0.01					0.12
City Fire Dept. Training/Equip Testing	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01					0.08
Subtotal Unmetered	1.00	0.43	1.47	0.62	1.29	0.55	1.10	0.73	-	-	-	-	7.19
<b>Total City System</b>	<b>861.29</b>	<b>833.55</b>	<b>759.17</b>	<b>748.80</b>	<b>584.98</b>	<b>441.16</b>	<b>407.37</b>	<b>1.11</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>4,637.43</b>
<b>Water Wheeled &amp; Wholesaled</b> (S J County Interconnects)													
Metered to San Joaquin County	66.78	43.97	51.77	46.03	27.18	24.38	24.91	22.91					307.93
<b>Total Wheeled &amp; Wholesaled</b>	<b>66.78</b>	<b>43.97</b>	<b>51.77</b>	<b>46.03</b>	<b>27.18</b>	<b>24.38</b>	<b>24.91</b>	<b>22.91</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>307.93</b>

## 2014-2015–Consumption Summaries

PRODUCTION (Million Gallons)	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	YTD
City System - Metered Consumption													-
Single Family Residential	603.59	728.00	618.57	517.05	453.92	334.99	277.93	264.30	284.16	385.28	379.46	412.24	5,259.49
Multi-family Residential	87.12	106.45	93.51	84.49	67.05	69.48	66.35	60.60	63.59	74.57	70.33	71.40	914.94
Commercial/Institutional	170.42	186.44	177.64	137.48	104.70	79.15	64.73	61.62	73.94	104.61	102.46	114.89	1,378.08
Irrigation	165.66	189.96	164.21	111.49	69.36	26.79	10.17	15.04	24.14	67.50	80.23	76.17	1,000.72
Non-potable Water	-	-	-	-	-	-	-	-	-	-	-	-	-
Const/Hydrant/Jumpers/Load Counts	0.51	0.37	0.21	0.85	0.12	0.01	0.08	0.02	0.10	0.88	0.12	0.29	3.56
Other (Industrial)	22.12	21.19	21.28	20.44	18.28	20.09	18.40	16.93	19.69	22.43	16.90	19.88	237.63
Subtotal Metered	1,049.42	1,232.41	1,075.42	871.80	713.43	530.51	437.66	418.51	465.62	655.27	649.50	694.87	8,794.42
City System - Unmetered Consumption													-
Main Line / Service Repair Losses	0.33	0.14	0.42	0.55	0.99	0.64	0.14	0.18	0.15	0.56	0.17	0.38	4.65
Commercial/Residential Construction	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.12
Sweepers	0.25	0.28	0.08	0.36	0.06	0.20	0.15	0.31	0.11	0.32	0.21	0.21	2.54
Hydrant / Blow-off Flushing	0.03	0.01	0.01	0.37	0.02	0.03	0.36	0.02	0.04	0.42	0.05	0.03	1.39
System Flushing	-	-	-	-	(112.39)	-	-	-	-	-	-	-	(112.39)
City Fire Dept. Fire Flow	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.13
City Fire Dept. Training/Equip Testing	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.12
Subtotal Unmetered	0.64	0.46	0.54	1.31	(111.29)	0.91	0.68	0.54	0.33	1.33	0.46	0.65	(103.44)
Total City System	1,050.06	1,232.87	1,075.96	873.11	602.15	531.42	438.34	419.05	465.95	656.60	649.96	695.52	8,690.99
Water Wheeled & Wholesaled (S J County Interconnects)													
Metered to San Joaquin County	74.64	69.07	55.44	49.31	33.15	21.69	28.26	24.77	41.59	27.24	48.82	50.06	524.04
Total Wheeled & Wholesaled	74.64	69.07	55.44	49.31	33.15	21.69	28.26	24.77	41.59	27.24	48.82	50.06	524.04

Table 2.6 – Chemical Consumption Summary

Water Production System	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	YTD
North Wells													
Chlorine Gas, Lbs.	835.00	1,197.00	1,181.00	1,138.00	555.00	409.00	512.00	767.00					6,594.00
South Wells													-
Chlorine Gas, Lbs.	206.00	40.00	131.00	141.00	62.00	59.00	191.00	92.00					922.00
Delta Water Treatment Plant													-
Ammonia Gal	-	-	-	-	-	-	736.02	887.48					
Liquid Oxygen, Gal.	367.20	356.40	388.80	306.00	165.60	640.80	5,536.80	-					7,761.60
Sodium Hypochlorite, Gal.	10,731.38	21,804.16	14,480.76	9,713.92	4,280.94	35,912.12	8,427.56	10,455.02					115,805.86
Sodium Hydroxide (Caustic Soda), Gal.	5,133.80	8,546.89	6,047.50	4,649.21	1,599.66	-	482.22	3,070.44					29,529.72
Aluminum Chlorohydrate (ACH), Gal.	13,755.95	8,468.46	8,815.32	6,082.74	3,942.36	2,918.70	5,803.56	7,821.99					57,609.08
Corrosion Inhibitor, Gal	29.61	-	-	1,059.62	406.08	8.46	63.45	1,104.99					2,672.21
Citric Acid, Gal.	105.60	92.00	112.00	88.00	41.60	107.20	88.00	94.05					728.45
Sulfuric Acid, Gal.	164.00	139.20	120.00	72.00	32.00	28.80	60.80	57.51					674.31
Sodium Bisulfite, Gal.	17.60	17.60	26.40	19.20	8.00	21.60	37.60	31.41					179.41

2014-2015– Chemical Consumption Summary

Water Production System	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	YTD
North Wells													-
Chlorine Gas, Lbs.	1,576.00	1,576.00	1,033.00	882.00	588.00	519.00	567.00	680.00	931.00	783.00	865.00	1,015.00	11,015.00
South Wells													-
Chlorine Gas, Lbs.	249.00	129.00	131.00	118.00	75.00	141.00	212.00	173.00	394.00	261.00	303.00	301.00	2,487.00
Delta Water Treatment Plant													-
Liquid Oxygen, Gal.	14,864.40	6,696.00	4,680.00	4,953.60	97.20	5,234.40	7,502.40	4,244.40	554.40	327.60	356.40	356.40	49,867.20
Sodium Hypochlorite, Gal.	27,917.68	24,415.56	22,439.10	18,689.86	14,856.70	15,516.90	10,068.60	7,978.98	9,664.68	15,014.02	16,213.70	16,852.88	199,628.66
Sodium Hydroxide (Caustic Soda), Gal.	22,945.86	20,772.01	8,169.47	12,496.55	18,563.15	18,553.60	14,686.10	5,940.82	1,861.20	1,429.17	3,388.58	5,437.93	134,244.44
Aluminum Chlorohydrate (ACH), Gal.	3,671.64	4,060.80	2,639.52	5,778.18	5,964.30	9,449.82	10,625.80	7,859.34	5,084.46	2,639.52	5,964.30	12,876.12	76,613.80
Corrosion Inhibitor, Gal	759.29	801.59	812.16	621.81	433.58	-	-	-	444.15	700.07	48.65	71.91	4,693.19
Citric Acid, Gal.	53.60	74.40	73.60	70.40	77.60	60.80	65.60	69.60	30.40	94.40	98.40	104.80	873.60
Sulfuric Acid, Gal.	96.80	128.00	131.20	116.80	77.60	64.00	69.60	55.20	82.40	84.00	132.80	147.20	1,185.60
Sodium Bisulfite, Gal.	38.40	44.80	56.00	54.40	48.00	33.60	24.00	30.40	20.00	12.80	14.40	13.60	390.40

Table 2.7 – Utility Consumption Summary

CONSUMPTION	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	YTD
<b>North</b>													
N. Well Electricity, KWH	255,136	368,313	233,644	304,697	108,343	86,136	306,533	134,408					1,797,210
N. Reservoir Electricity, KWH	69,080	73,300	75,080	65,800	46,440	60,120	52,880	47,440					490,140
Electricity, KWH	324,216	295,013	308,724	370,497	154,783	146,256	359,413	181,848					2,140,750
Natural Gas, 1,000 Ft	-	316	7	-	1	-	-	294					618
<b>South</b>													
S. Well Electricity, KWH	74,176	3,147	6,789	35,154	3,684	2,525	26,820	5,858					158,153
S. Reservoir Electricity, KWH	13,600	15,360	15,360	9,600	8,640	14,880	14,240	9,280					100,960
S. Cl2 Booster Station, KWH	30	34	38	51	108	141	112	94					608
Electricity, KWH	87,806	18,541	22,187	44,805	12,332	17,546	41,172	15,232					259,621
Natural Gas, 1,000 Ft	-	-	-	-	-	-	-	-					-
<b>Delta Water Treat Plant</b>													
Electricity Used, KWH (Intake)	114,240	154,880	174,880	114,880		14,720	68,320						641,920
Electricity Used, KWH (Treatment Plant)	712,000	552,000	518,000	410,000	346,000	112,000	318,000						2,968,000
Electricity Generated, KWH (Solar)	20,030	16,290	10,950	10,690	8,120	5,820	5,610	10,060					87,570
DWTP Total Electricity Used													-
<b>OUTAGES</b>													
<b>North Wells</b>													
Electricity	-	-	-	-	-	-	-	-					-
Natural Gas	-	-	-	-	-	-	-	-					-
<b>South Wells</b>													
Electricity	-	-	-	-	-	-	-	-					-
Natural Gas	-	-	-	-	-	-	-	-					-
<b>Description of Outages</b>													

## 2014-2015– Utility Consumption Summary

CONSUMPTION	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	YTD
<b>North</b>													
N. Well Electricity, KWH	572,088	465,061	149,724	49,927	41,798	33,142	56,961	189,128	233,796	319,891	227,938	297,128	2,636,582
N. Reservoir Electricity, KWH	75,500	93,980	70,980	76,560	78,900	89,140	79,300	52,980	55,200	57,580	50,440	56,000	836,560
Electricity, KWH	647,588	559,041	220,704	126,487	120,698	122,282	136,261	242,108	288,996	377,471	278,378	353,128	3,473,142
Natural Gas, 1,000 Ft	-	-	-										-
<b>South</b>													
S. Well Electricity, KWH	23,520	7,330	11,029	7,582	5,849	6,545	11,961	20,179	78,446	71,964	20,535	85,048	349,988
S. Reservoir Electricity, KWH	33,295	23,520	25,280	22,080	15,200	22,240	29,920	19,040	18,720	16,640	14,400	14,080	254,415
S. Cl2 Booster Station, KWH	21	19	19	19	15	202	274	86	243	71	-	127	1,096
Electricity, KWH	56,836	30,869	36,328	29,681	21,064	28,987	42,155	39,305	97,409	88,675	34,935	99,255	605,499
Natural Gas, 1,000 Ft	-	-	-	-	-	-	-	-	-	-			-
<b>Delta Water Treat Plant</b>													
Electricity Used, KWH (Intake)	42,880	69,120	42,240	36,320	88,960	61,440	61,120	19,200	73,920	-	-	-	495,200
Electricity Used, KWH (Treatment Plant)	522,000	552,000	650,000	546,000	364,000	306,000	318,000	178,000	438,000	364,000	468,000	752,000	5,458,000
Electricity Generated, KWH (Solar)	17,220	15,330	11,440	10,780	6,910	4,680	5,890	8,460	13,880	18,510	20,040	20,980	154,120
DWTP Total Electricity Used	547,660	605,790	680,800	571,540	446,050	362,760	373,230	188,740	498,040	345,490	447,960	731,020	5,799,080
<b>OUTAGES</b>	<b>JUL</b>	<b>AUG</b>	<b>SEP</b>	<b>OCT</b>	<b>NOV</b>	<b>DEC</b>	<b>JAN</b>	<b>FEB</b>	<b>MAR</b>	<b>APR</b>	<b>MAY</b>	<b>JUN</b>	<b>YTD</b>
<b>North Wells</b>													
Electricity	-	-	-	-	-	-	-	-	-	-	-	-	-
Natural Gas	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>South Wells</b>													
Electricity	-	-	-	-	-	-	-	-	-	-	-	-	-
Natural Gas	-	-	-	-	-	-	-	-	-	-	-	-	-
Description of Outages													

Table 2.8 – Hydrant Maintenance

	<i>Current Month</i>	<i>Fiscal YTD</i>
Hydrant Repairs		
Leaks	4	74
Vehicle Accidents	7	31
Routine Maintenance Repair	9	63
Painted Hydrant	0	1
Installed New/Replaced Hydrant	0	10
Assist Fire Department	0	0
Emergency Fire Response	0	1
Fire Flow Test	1	4
Removed Hydrant/Spool	0	0
Relocated Hydrant	0	0
Gate Valve Maintenance	0	0

Table 2.9 – Valve Maintenance Program

	<i>Current Month</i>	<i>Fiscal YTD</i>	<i># of Valves in System</i>
Air Relief Valves Inspected	9	74	198
Distribution Valves Located	2	6	10,491
Distribution Valves Exercised	29	245	10,491
Distribution Valves Installed (New)	0	1	10,491
Blow-off Valves Flushed	0	1	1,282
Valves Repaired (all types)	1	12	11,971

Table 2.10 – Service Connections

<i>Meters Applied to Routes- Current Month</i>	
Meters Applied to Routes - Fiscal Year-to-Date	192
Total Number of Service Meters in Water System (Active + Inactive)	48,864

Table 2.11 – Number of Active Service Meters in Water System - By Size

Meter Size (in inches)	Residential	Industrial	Commercial / Institutional	Irrigation
5/8	1,801	0	14	15
3/4	25,285	14	212	74
1	18,452	0	245	148
1½	259	0	231	161
2	257	2	605	435
3	12	0	69	25
4	7	3	46	20
6	5	1	18	2
8	0	0	5	0
10	0	0	2	0
12	0	0	2	0
<b>Totals</b>	<b>46,078</b>	<b>20</b>	<b>1,449</b>	<b>880</b>

Table 2.12 – Water Quality Inquiry Summary

Inquiry	Quantity	Follow-up Action
Taste / Odor	1	-1- Complaint of foul odor in water. Operator did not notice any taste or odor upon arrival. Operator spoke to customer about water sources and treatment processes.
Color	1	-1- Complaint of Brita filter having stains on it. Operator spoke to customer about possible causes. Customer satisfied.
Turbidity		(none)
Suspended Solids		(none)
Pressure	3	-1- Complaint of low pressure at kitchen faucet. Operator spoke to customer and advised cleaning aerators. -1- Complaint of low pressure at outside hose bib only. Operator found normal pressure at hose bib. Advised customer to replace hose bib. -1- Complaint of low pressure throughout house. Customer later called back and said problem was fixed. Pressure back to normal.
Sediment		(none)
Air		(none)
Sand		(none)
Miscellaneous		(none)
Inquiry		(none)

Table 2.13 – Customer Services Summary

<i>Customer Service Operations</i>	<i>Current Month</i>
Residential Meter Routes	90
Commercial Meter Routes	13
Estimated Meter Reads by Utility Billing	0
Total Meters Read	48,864
Number of Check Reads (All Routes)	263
Number of Service Turn-on/Turn-offs	703

Table 2.14 – Cross Connection Control Program (based on a calendar year)

<i>2016</i>	<i>Beginning of Year</i>	<i>This Month</i>	<i>Year to Date</i>
Total Devices in COS System	2,801		2810
Due for Testing to Date			669
Tested to Date			618
Outstanding			51
Installed/Added		14	15
Reactivated		0	0
Inactivated from Cos System		5	6

Table 2.15 – Cross Connection Control Program Surveys

	<i>Surveyed</i>	<i>Surveyed Fiscal Year-to-Date</i>
Customer Connections Surveyed	6	45

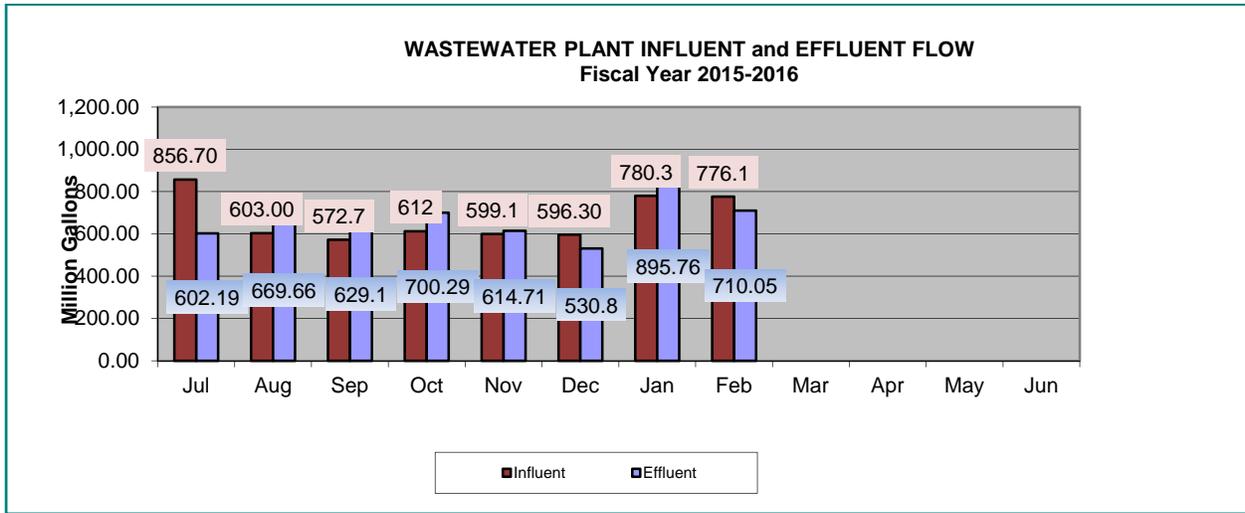
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## Wastewater Treatment

Table 3.1 – Summary of Influent and Effluent Parameters

<i>Influent Parameters</i>	<i>Actual Month Average</i>	
Flow, MGD	26.8	
cBOD, mg/L	380	
TSS, mg/L	320	
Effluent Parameters	Actual Month Average	NPDES Permit Limit Monthly Average
Flow, MGD	24.5	55 Average Dry Weather Flow
cBOD, mg/L	<2.1	10
cBOD Removal, %	>99.5	85
TSS, mg/L	<2.5	10
TSS Removal, %	> 99.3	85
Ammonia, mg/L	<0.5	1.2 - April 1 – October 31 2.3 - November 1 – November 30 2.4 - December 1 – March 31
Turbidity (NTU)	1.5 0.7- 2.3	2 (daily average) Daily maximum limit > 5 NTU no more than 3 mins/hr or 72 mins/24 hr run time
pH, standard units (Min/Max)	6.5- 7.3	6.5 – 8.5
DO, mg/L (Min. Daily Average)	8.9	6.0 01-Dec. thru 31- Aug.
Ponds, Free Board, feet (Daily Average)	2.32- 3.13	>= 2 feet (Daily Avg) No less than 1.0 ft (Daily Max)

Figure 3.A – Wastewater Plant Influent and Effluent Flow



Wastewater Plant Influent and Effluent Flow Comparison Year 2014-2015

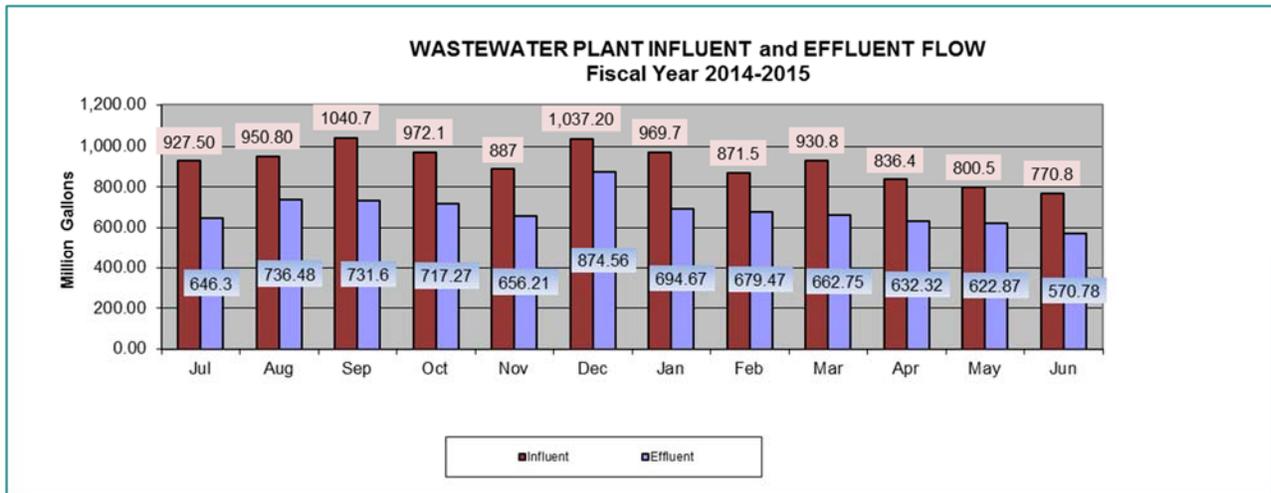
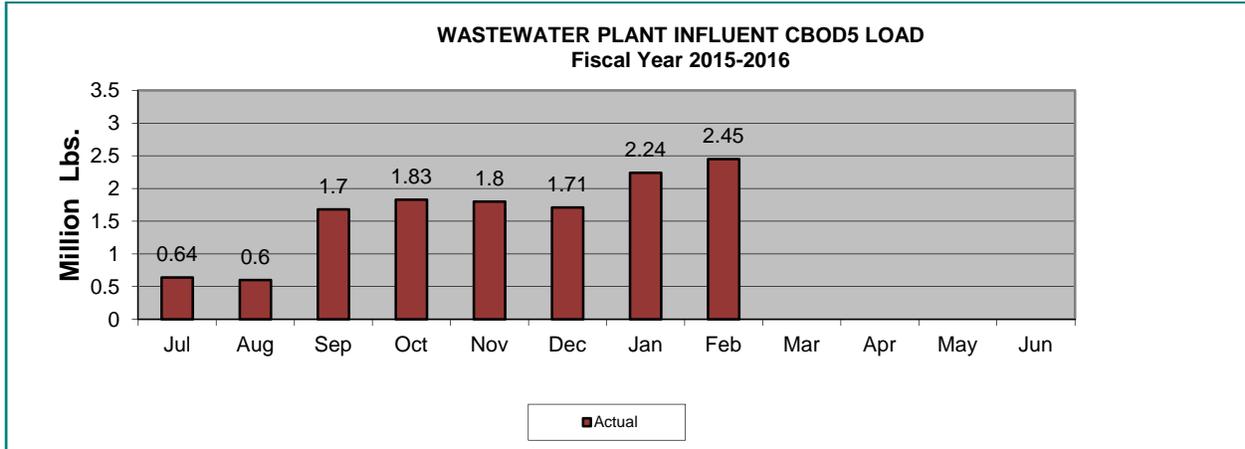


Figure 3.B – Wastewater Plant Influent CBOD5 Load



Wastewater Plant Influent CBOD5 Load Comparison Year 2014-2015

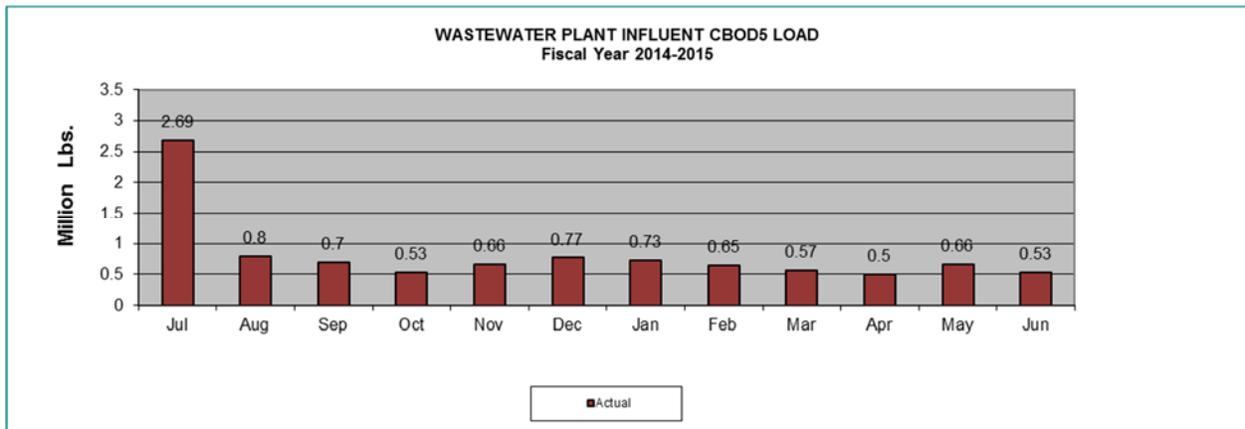
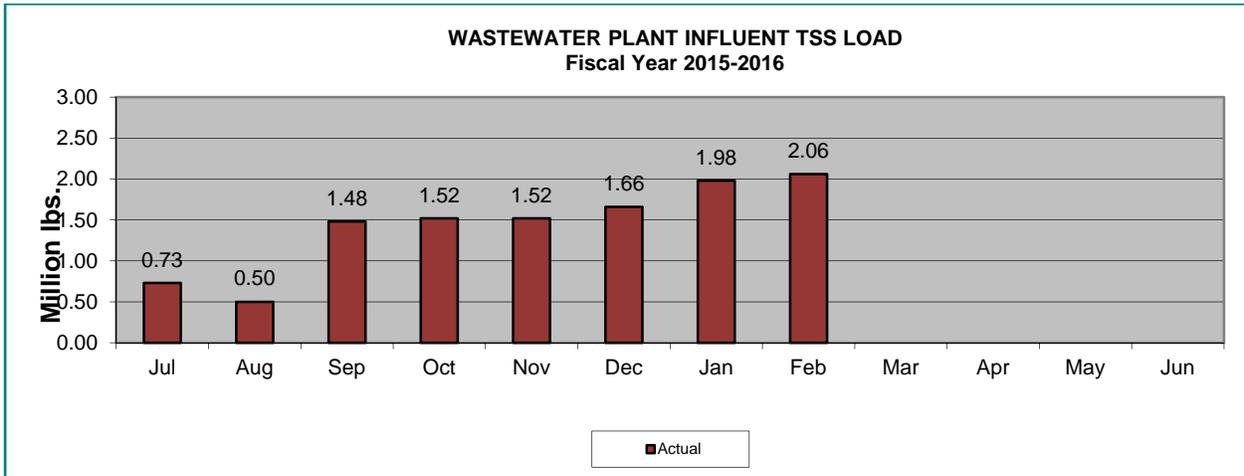


Figure 3.C – Wastewater Plant Influent TSS Load



Wastewater Plant Influent TSS Load Comparison Year 2014-2015

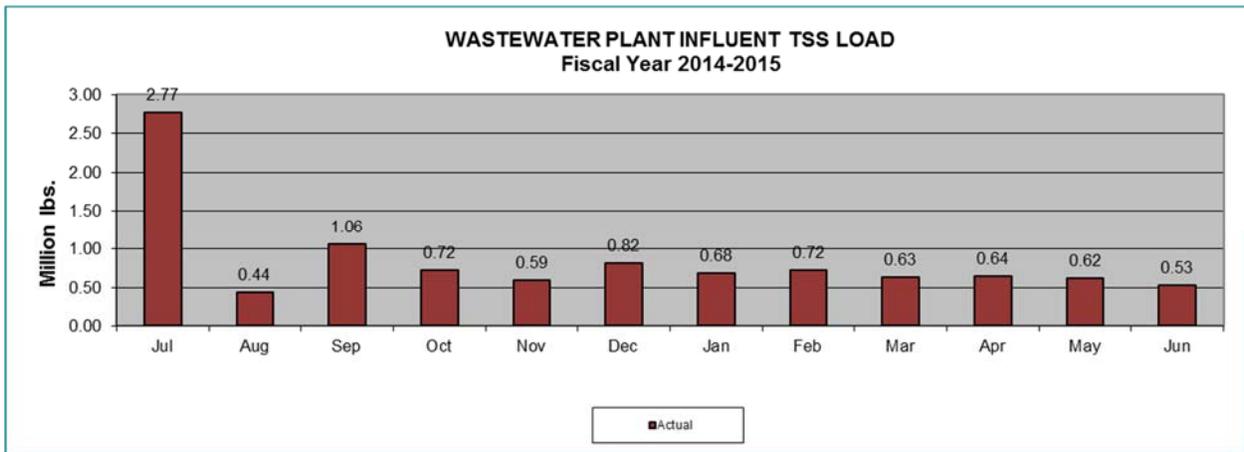
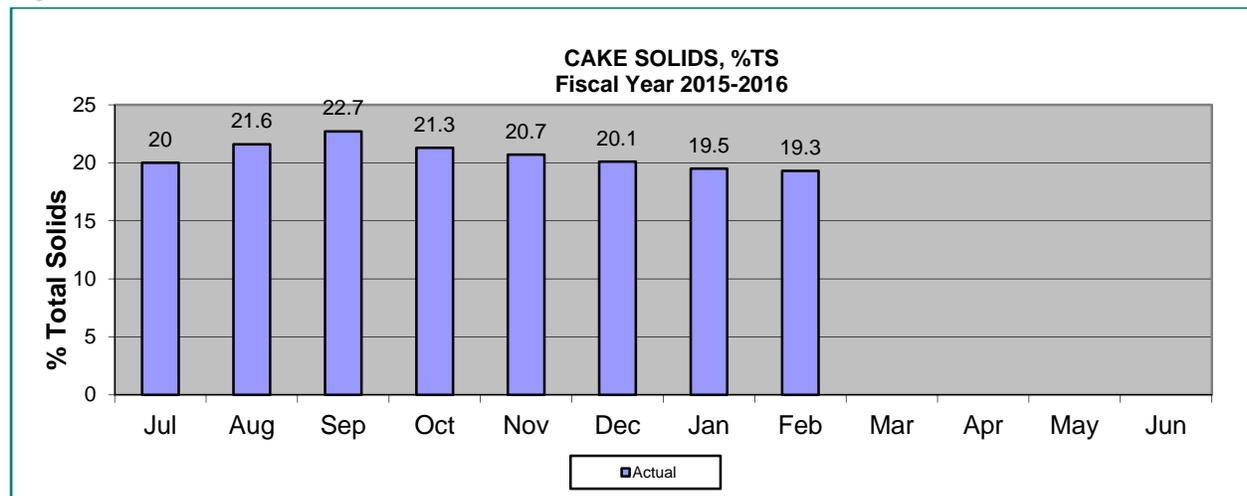


Table 3.2 – Residuals and Chemical Management Summary for Biosolids

Digester Biosolids	Current Month	Fiscal Year-to-Date
Total Feed, gals.	4,087,500	34,412,374
Total Gas Production, CuFt.	13,944,500	128,455,500
Sludge Lagoon, gals.	0	0
Ferric Chloride, gal.	5,170	54,026
Ferric Chloride (EPT), lbs.	1,317	40,959
<b>Dewatered Biosolids</b>		
Total Feed, gals.	2,816,529	27,983,250
Polymer, lbs.	44,887	536,074
Cake, Wet Tons	1,550	12,515
Biosolids Truck Loads Hauled	63	584

Figure 3.D – Cake Solids



Cake Solids Comparison Year 2014-2015

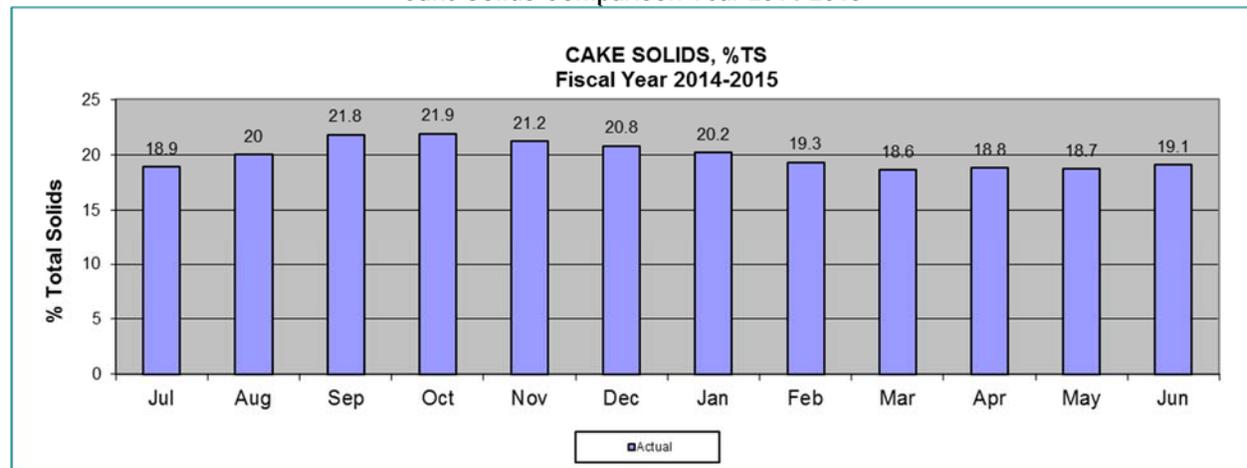


Table 3.3 – Summary of Tertiary Pond Operating Levels

Tertiary Pond	Start Freeboard	End Freeboard	Reserve Capacity (Million Gallons)
Pond #1 (190 ac.)	2.18	2.48	153.54
Pond #2 (135 ac.)	3.06	3.2	130.34
Pond #3 (125 ac.)	2.78	3	131.97
		Total	415.85
		Total Reserve Days	16.81

Table 3.4 – Chemical Consumption Summary – Tertiary Facility

Chemical Used	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Fiscal Year-to-Date
Chlorine Gas, lbs.	39,357	43,980	41,666	48,734	43,393	29,760	49,573	40,600					337,063
Sulfur Dioxide, lbs.	31,820	38,058	33,200	33,600	33,200	972,228	36,200	30,100					1,208,406
Caustic Soda, gals	0	0	0	350	2,113	0	3,828	919					7,210
Aqueous Ammonia, gals.	4,322	5,609	5,870	5,691	1,501	486	2,854	3,278					29,611
Polymer, lbs	226,517	415,617	430,019	454,602	317,845	317,026	470,551	408,160					3,040,337

Comparison Year 2014-2015 - Chemical Consumption Summary – Tertiary Facility

Chemical Used	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Fiscal Year-to-Date
Chlorine Gas, lbs.	40,257	47,844	48,373	49,915	44,533	42,994	35,126	35,267	36,650	34,045	34,424	37,867	449,428
Sulfur Dioxide, lbs.	30,004	33,988	38,624	36,400	30,000	37,041	28,300	32,335	34,600	32,200	34,703	31,060	368,195
Caustic Soda, gals	0	0	0	0	2,161	8,034	8,706	8,029	384	156	1,520	209	28,990
Aqueous Ammonia, gals.	12,255	17,429	6,359	5,131	3,486	3,224	3,309	3,254	3,708	4,242	5,042	4,560	67,439
Polymer, lbs	361,988	505,196	463,476	348,519	298,242	345,765	297,918	312,443	384,330	402,147	273,984	141,125	3,994,008

Table 3.5 – Utility Consumption

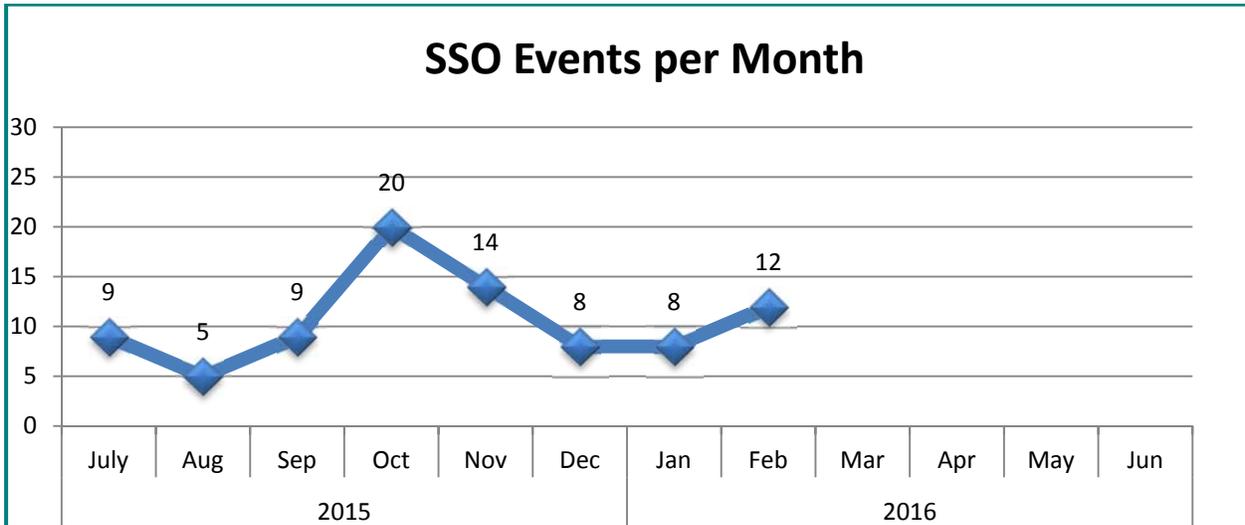
	Current Month	Fiscal Year-to-Date
<b>Electricity</b>		
Main Facility Total Usage, KW	1,601,211	11,841,980
Tertiary Facility Total Usage, KW	583,251	4,347,427
<b>Total Facility Usage, KW</b>	<b>2,184,462</b>	
PG&E, Purchased KW	1,613,513	11,780,148
Co-Generation Production, KW	570,949	4,409,259
<b>Total Facility Prod. /Purch. KW</b>	<b>2,184,462</b>	<b>13,766,546</b>
<b>Natural Gas</b>		
Co-Generation Fuel, Therms	70,950	553,090
Building Fuel, Therms	17.93	77.22
Methane Gas, Digester Production, CuFt.	13,944,500	114,448,000
Methane Gas, Digester Production, Therms	84,355	678,883
<b>Water</b>		
Wastewater Facilities Total Usage, gals.	2,893,400	9,245,637

## Wastewater Collection Systems

Table 4.1 – Summary of SSOs and Private Sewage Spills

Date	Address	Spill Gallons	Gallons Recovered	Gal to Surf Water	Cause	Receiving Water or Containment	Line Type	Pipe Size
<b>CATEGORY 1</b>								
			NONE					
<b>CATEGORY 2</b>								
			NONE					
<b>CATEGORY 3</b>								
1/10/2016	Maywood Ln.	5	5	0	Debris	Gutter	Lateral	4"
1/10/2016	Edgefield Ave	23	23	0	Debris	Gutter	Lateral	4"
1/11/2016	Ector Way	2	2	0	Grease	Gutter	Main	6"
1/17/2016	E. Magnolia St.	15	15	0	Debris	Gutter	Lateral	4"
1/17/2016	School Ave.	31	31	0	Roots	Gutter	Lateral	4"
1/20/2016	Channel St.	234	234	0	Debris	Gutter	Lateral	4"
1/21/2016	Village Green Ct.	3	3	0	Debris	Gutter	Lateral	4"
1/26/2016	Kentfield Rd.	5	5	0	Debris	Gutter	Lateral	4"
<b>PRIVATE</b>								
1/3/2016	E. Market St.	80	80	0	Inside Trouble	Gutter	Lateral	4"
1/8/2016	Charter Way	20	20	0	Inside Trouble	Gutter	Lateral	4"
1/11/2016	Seachiight Ave.	41	41	0	Debris	Gutter	Lateral	4"
1/12/2016	Stacey Ct.	3	3	0	Debris	Gutter	Lateral	4"
1/12/2016	Acapulco Way	29	29	0	Debris	Storm Drain	Lateral	4"
1/18/2016	Edgefield Way	23	23	0	Debris	Gutter	Lateral	4"
1/27/2016	Millwood Ave.	3	3	0	Debris	Gutter	Lateral	4"
1/30/2016	Hemet Ave.	27	27	0	Debris	Gutter	Lateral	4"
<b>Total Public SSO Events</b>			<b>318</b>	<b>Total Gallons</b>		<b>8</b>		
<b>Total Private Spills</b>			<b>226</b>	<b>Total Gallons</b>		<b>8</b>		
<b>Total Public &amp; Private Spill Events</b>			<b>544</b>	<b>Total Gallons</b>		<b>16</b>		

Figure 4.A – Public Sanitary Sewer Overflow Events



Public Sanitary Sewer Overflow Events - Comparison Year 2014-2015

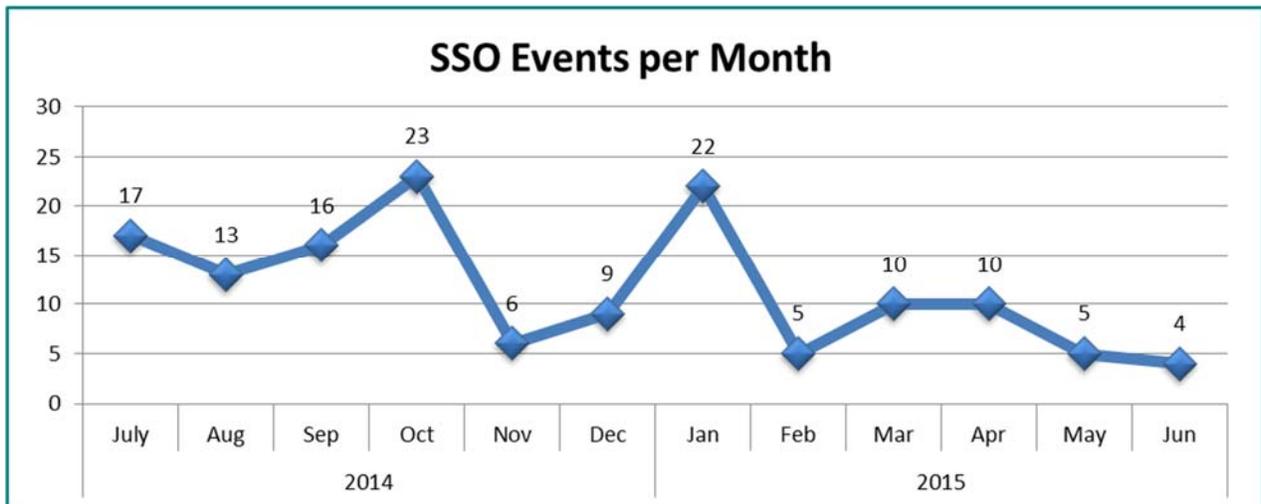
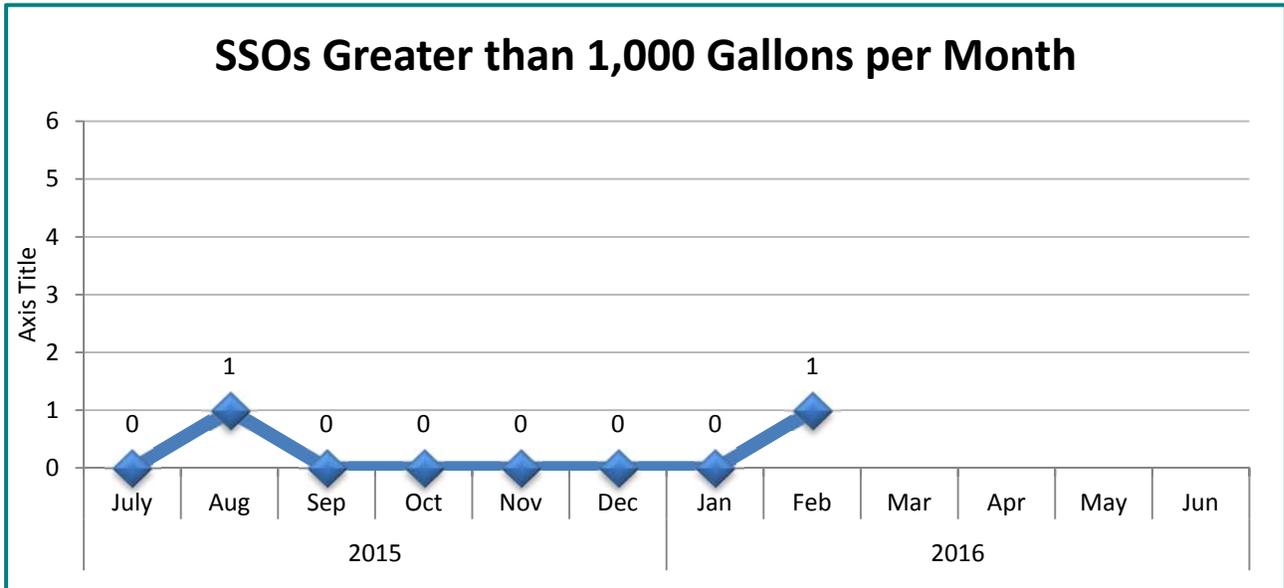


Figure 4.B – Public SSOs Greater than 1,000 gallons – Events



Public SSOs Greater than 1,000 gallons Events – Comparison Year 2014-2015

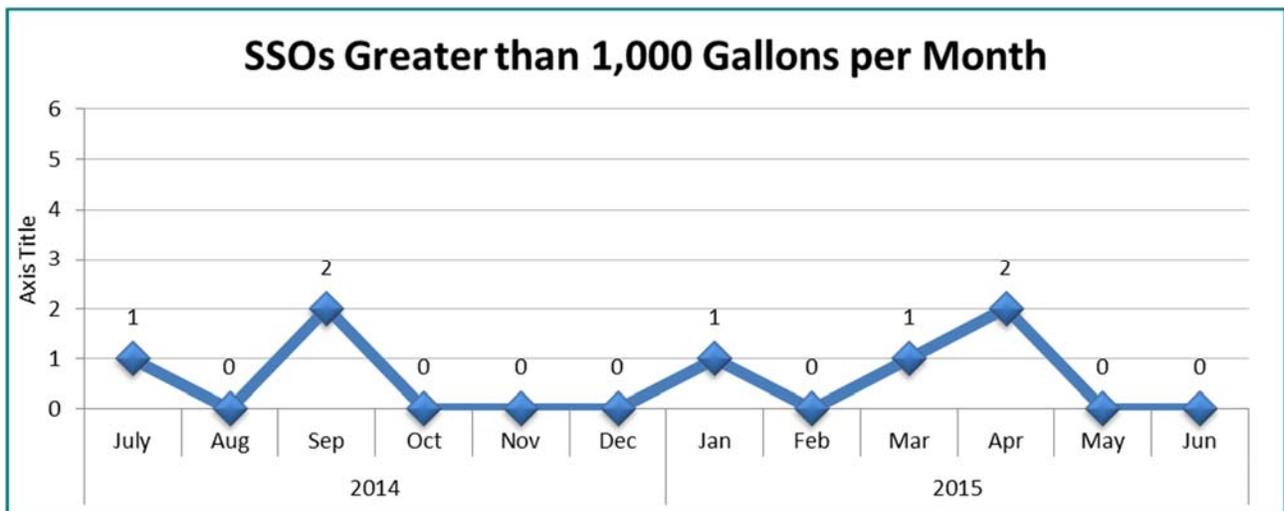
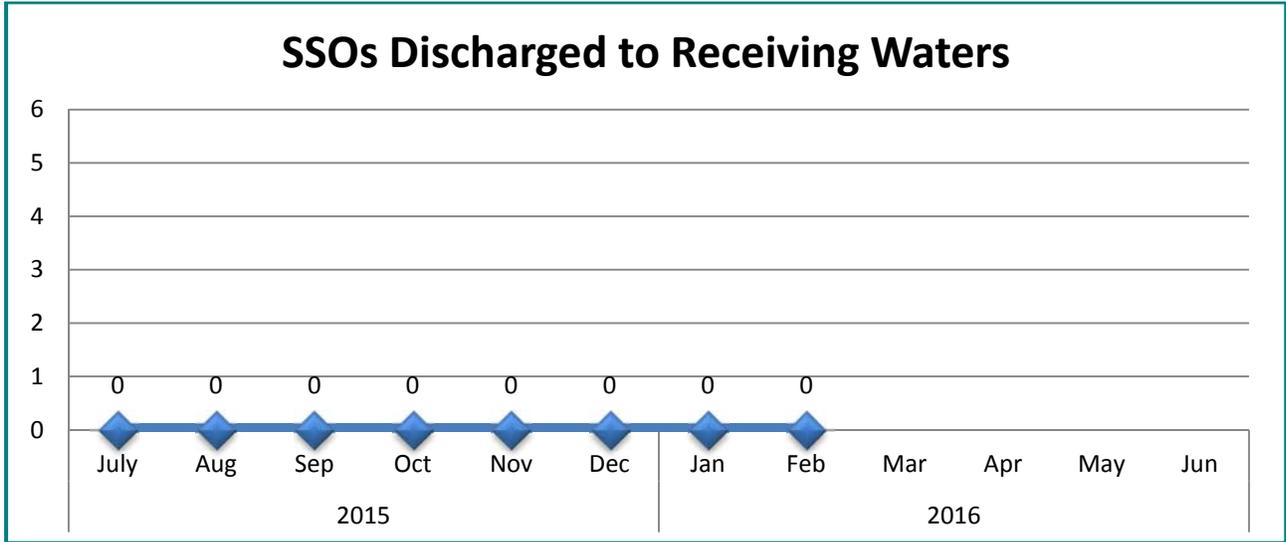


Figure 4.C – Public Sanitary Sewer Overflows Discharged to Receiving Water



Public Sanitary Sewer Overflows Discharged to Receiving Water – Comparison Year 2014-2015

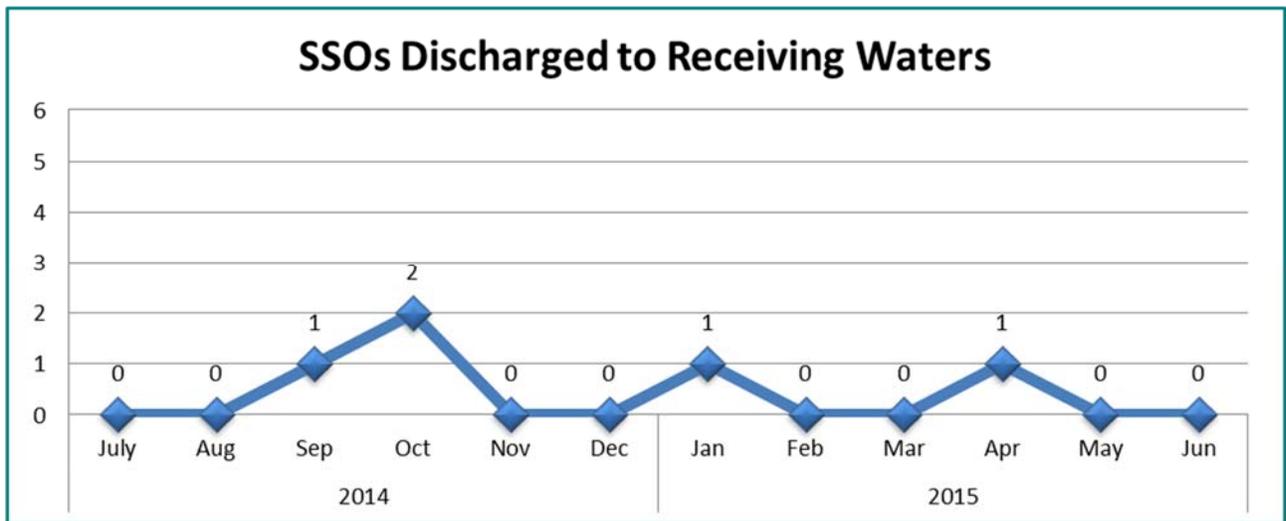


Table 4.2 – Sewer Maintenance Activity Summary

	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	FISCAL YTD
<b>Repairs – Sewer</b>													
# of Lateral Repairs	7	12	2	1	7	14	5	11					59
Lateral Repairs, Linear Feet	71	111	16	5	32	20	103	74					432
# of Main Line Repairs	13	6	3	3	3	3	0	4					35
Main Line Repairs, Linear Feet	63	21	27	15	14	18	0	23					181
Maintenance Hole Repair/New	1	2	6	10	9	2	2	2					34
Sewer Taps	1	0	0	0	0	0	0	0					1
<b>Maintenance – Sewer</b>													
# of Main Line Segments Jetted	612	620	465	495	257	394	363	506					3,712
Main Line Linear Feet Jetted	185,379	185,771	138,293	159,933	88,760	132,467	127,096	159,544					1,177,243
# of Main Line Segments Rodded	57	16	17	33	17	19	12	17					188
Main Line Linear Feet Rodded	17,098	1,519	7,339	10,910	6,418	5,064	4,016	4,753					57,117
Laterals Foamed	106	144	165	33	85	128	99	160					920
Laterals Foamed, Linear Feet	3,180	4,320	4,950	990	2,550	3,840	2,940	4,800					27,570

*(Chart totals do not include work done by contractors.)*

Comparison Year 2014-2015 – Sewer Maintenance Activity Summary  
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	JUL	AUG	SEP	OCT	NOV	86DEC	JAN	FEB	MAR	APR	MAY	JUN	FISCAL YTD
<b>Repairs – Sewer</b>													
# of Lateral Repairs	12	7	4	0	6	6	9	7	7	4	3	5	70
Lateral Repairs, Linear Feet	62	27	20	0	48	31	39	28	33	23	13	25	349
# of Main Line Repairs	3	7	0	3	2	2	5	2	7	4	5	1	41
Main Line Repairs, Linear Feet	12	46	0	18	5	2	24	10	19	21	28	5	190
Maintenance Hole Repair/New	22	14	8	8	6	4	7	11	9	3	3	9	104
Sewer Taps	1	0	0	0	0	0	0	0	0	0	0	0	1
<b>Maintenance – Sewer</b>													
# of Main Line Segments Jetted	557	381	325	570	577	374	692	581	479	400	406	531	5,794
Main Line Linear Feet Jetted	177,922	129,123	104,005	179,610	139,030	125,715	210,728	167,127	150,822	137,326	151,123	141,505	1,800,540
# of Main Line Segments Rodded	60	47	6	50	19	8	36	62	55	39	64	67	497
Main Line Linear Feet Rodded	20,621	14,900	2,410	16,556	5,944	1,729	11,830	21,215	18,244	13,617	19,112	19,834	160,385
Laterals Foamed	82	83	104	59	45	50	64	82	162	129	109	110	1,046
Laterals Foamed, Linear Feet	2,460	2,490	3,120	1,770	1,350	1,500	1,920	2,460	4,860	3,870	3,270	3,300	31,380

*(Chart totals do not include work done by contractors.)*

Table 4.3 – Customer Service and CCTV Activity Summary

<i>CUSTOMER SERVICE</i>	<i>JUL</i>	<i>AUG</i>	<i>SEP</i>	<i>OCT</i>	<i>NOV</i>	<i>DEC</i>	<i>JAN</i>	<i>FEB</i>	<i>MAR</i>	<i>APR</i>	<i>MAY</i>	<i>JUN</i>	<i>FISCAL YTD</i>
Service Calls	254	260	392	327	396	462	467	413					2,971
USA Requests	828	720	839	662	451	812	881	630					5,823
TV Sanitary Line Segment Inspections	61	121	144	81	22	50	73	86					638
TV Sanitary Line Segment Inspections, Linear Feet	11,946	17,249	18,227	13,217	5,423	12,047	13,574	14,580					106,263
TV Sanitary Lateral Inspections	32	258	92	24	107	88	39	116					745
TV Sanitary Lateral Inspections, Linear Feet	872	8,230	3,982	729	1,697	1,799	875	2,851					21,035

*(Chart totals do not include work done by contractors.)*

Comparison Year 2014-2015 – Customer Service and CCTV Activity Summary

<i>CUSTOMER SERVICE</i>	<i>JUL</i>	<i>AUG</i>	<i>SEP</i>	<i>OCT</i>	<i>NOV</i>	<i>DEC</i>	<i>JAN</i>	<i>FEB</i>	<i>MAR</i>	<i>APR</i>	<i>MAY</i>	<i>JUN</i>	<i>FISCAL YTD</i>
Service Calls	422	453	354	390	366	653	536	389	330	306	270	256	4,725
USA Requests	929	848	781	873	572	733	831	640	849	1,254	603	1,224	10,137
TV Sanitary Line Segment Inspections	81	75	86	122	115	71	132	138	132	51	53	105	1,161
TV Sanitary Line Segment Inspections, Linear Feet	21,292	18,720	21,570	30,733	23,140	17,487	29,881	26,608	30,832	14,572	11,814	19,775	266,424
TV Sanitary Lateral Inspections	287	310	82	49	16	70	65	33	139	101	121	51	1,324
TV Sanitary Lateral Inspections, Linear Feet	6,955	8,435	1,769	1,179	251	1,409	3,368	680	4,204	2,216	670	1,287	32,423

*(Chart totals do not include work done by contractors.)*

Table 4.4 – Spoils Activity Summary

<i>SPOILS ACTIVITY SUMMARY</i>	<i>JUL</i>	<i>AUG</i>	<i>SEP</i>	<i>OCT</i>	<i>NOV</i>	<i>DEC</i>	<i>JAN</i>	<i>FEB</i>	<i>MAR</i>	<i>APR</i>	<i>MAY</i>	<i>JUN</i>	<i>FISCAL YTD</i>
Operations / Grit Hauling - # of Loads	1	0	0	0	1	3	0	1					6
Operations / Grit Hauling - Tonnage	6.63	0	0	0	6.73	20.86	0	11.69					45.91
Sanitary Lines / Pump Stations - # of Loads	8	0	6	11	5	10	9	0					49
Sanitary Lines / Pump Stations - Tonnage	126.19	0	73.01	128.00	65.48	86.12	138.83	0					617.63
Construction Hauling – # of Loads	17	0	15	5	6	5	9	6					63
Construction Hauling – Tonnage	224.97	0	195.59	55.24	67.62	60.32	96.98	70.58					771.30
<b>Total Loads</b>	<b>26</b>	<b>0</b>	<b>21</b>	<b>16</b>	<b>12</b>	<b>18</b>	<b>18</b>	<b>7</b>					<b>118</b>
<b>Total Tonnage</b>	<b>357.79</b>	<b>0</b>	<b>268.60</b>	<b>183.24</b>	<b>139.83</b>	<b>167.30</b>	<b>235.81</b>	<b>82.27</b>					<b>1,434.84</b>

Comparison Year 2014-2015 – Spoils Activity Summary

<i>SPOILS ACTIVITY SUMMARY</i>	<i>JUL</i>	<i>AUG</i>	<i>SEP</i>	<i>OCT</i>	<i>NOV</i>	<i>DEC</i>	<i>JAN</i>	<i>FEB</i>	<i>MAR</i>	<i>APR</i>	<i>MAY</i>	<i>JUN</i>	<i>FISCAL YTD</i>
Operations / Grit Hauling - # of Loads	0	0	0	0	0	0	0	1	2	0	0	0	3
Operations / Grit Hauling - Tonnage	0	0	0	0	0	0	0	12.44	17.41	0	0	0	29.85
Sanitary Lines / Pump Stations - # of Loads	3	0	1	0	0	2	1	5	4	3	0	0	19
Sanitary Lines / Pump Stations - Tonnage	36.19	0	17.50	0	0	30.09	10.50	58.98	61.39	26.36	0	0	241.01
Construction Hauling – # of Loads	5	0	6	3	0	0	10	5	0	6	0	0	35
Construction Hauling – Tonnage	70.02	0	92.36	44.67	0	0	109.78	78.41	0	89.90	0	0	485.14
<b>Total Loads</b>	<b>8</b>	<b>0</b>	<b>7</b>	<b>3</b>	<b>0</b>	<b>2</b>	<b>11</b>	<b>11</b>	<b>6</b>	<b>9</b>	<b>0</b>	<b>0</b>	<b>57</b>
<b>Total Tonnage</b>	<b>106.21</b>	<b>0</b>	<b>109.86</b>	<b>44.67</b>	<b>0</b>	<b>30.09</b>	<b>120.28</b>	<b>149.83</b>	<b>78.80</b>	<b>116.26</b>	<b>0</b>	<b>0</b>	<b>756.00</b>

Table 4.5 – Graffiti Removal

<i>Name / Location of Pump Stations Painted</i>

Table 4.6 – Pump Station Maintenance Work Order Summary

<i>Maintenance Work Orders</i>	<i>Corrective Maintenance</i>	<i>Corrective Maintenance % Completed</i>	<i>Corrective Maintenance %Backlog</i>	<i>Preventive Maintenance % Backlog</i>
<b>Sanitary Pumping Facilities</b>				
Pump Station Mechanical	88	82	6.8	18.8
Pump Station Electrical	15	93.3	6.7	52.2

Table 4.7 – Plant Maintenance Work Order Summary

<i>Maintenance Work Orders</i>	<i>Corrective Maintenance WOs Issued</i>	<i>Corrective Maintenance % Completed</i>	<i>Preventative Maintenance WOs Issued</i>	<i>Preventive Maintenance % Complete</i>
<b>RWCF Treatment Plant</b>				
Main Plant	N/A	N/A	260	*
Tertiary Plant	N/A	N/A	256	*
<b>RWCF Plant Maintenance</b>				
Main Plant	36	44.4	266	0
Main Plant Electrical	13	30.8	23	0
Tertiary Plant	13	53.8	107	0
Tertiary Plant Electrical	4	52.6	30	0

*Due to a backlog in data entry, percent complete numbers are not available.*

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## Environmental Control

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Table 5.1 – Operational Activity Summary

Activity/Indicator	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
<b>Pretreatment Program</b>												
Industrial Inspections	66	46	47	52	44	34	35	43				
Industrial Sampling	54	43	37	31	26	28	32	31				
Discharge Permits (new) *	0	0	0	1	2	0	0	1				
Discharge Permits (renewal) **	1	3	0	0	0	1	0	0				
Industrial Flow, MG	148.91	158.98	132.07	89.74	68.45	65.34	82.45					
Industrial BOD, lbs.	1,061,940	1,229,740	782,150	551,210	555,450	440,340	696,450					
Industrial TSS, lbs.	462,480	742,990	430,130	160,590	102,090	89,380	175,370					
Industrial Revenue	\$ 587,542	\$ 621,344	\$ 564,162	\$ 521,795	\$ 504,939	\$ 506,690	\$ 558,483					
Pretreatment Enforcement Actions***	8	7	10	7	6	7	9	6				
<b>Waste Hauler Program</b>												
Trucked-in Waste Loads	227	239	247	225	224	240	231					
Trucked-in Waste Gallons	691,998	722,084	742,659	665,496	676,153	703,905	692,313					
Trucked-in Waste Revenue	\$ 24,225	\$ 25,443	\$ 26,259	\$ 23,813	\$ 23,840	\$ 25,343	\$ 24,537					
<b>Stormwater Program</b>												
Hazardous Materials Spills ****	0	0	0	0	1	0	0	0				
Stormwater Complaints *****	1	3	3	2	3	0	0	4				
Stormwater Enforcement Actions*****	2	1	1	0	2	0	0	1				
<b>FOG Program</b>												
FOG Initial Inspections	74	62	73	42	3	7	95	105				
FOG Enforcement Actions	37	23	0	0	0	0	0	0				
FOG Follow-up Inspections	41	42	71	44	17	17	23	31				

\* Discharge Permits (New)  
1 – GROUNDWATER DISCHARGE PERMIT

\*\* Discharge Permits (Renewal) - NONE

\*\*\* Pretreatment Enforcement Actions  
1/2016 – NOV/CO: Exceeded TSS Monthly Lbs. Limit  
1/2016 – NOV/CO: Exceeded BOD and TSS Monthly Lbs. Limit  
1/2016 – NOV/CO: Failed to Submit Waste Hauler Manifest & Discharged to RWCF from Outside Service Area  
1/4/2016 & 1/13/2016 – NOV/CO: Exceeded BOD and TSS Limits  
1/18/2016 – NOV/CO/FINE: pH Discharge Violation  
1/30/2016 – NOV/CO/FINE: pH Discharge Violation and Failed to Report Exceedance within 24-HRS.

\*\*\*\* Hazardous Materials Spills – NONE

\*\*\*\*\* Stormwater Complaints – Four (4)

\*\*\*\*\* Stormwater Enforcement Actions  
1/22/2016 & 1/25/2016 – NOV/CO/NTC: SSO Category 2 & 3

## Comparison Year 2014-2015 –Operational Activities Summary

Activity/Indicator	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
<b>Pretreatment Program</b>												
Industrial Inspections	56	47	47	41	34	25	41	35	40	44	40	53
Industrial Sampling	49	44	42	39	26	23	34	30	37	34	26	42
Discharge Permits (new) *	0	1	1	0	1	1	1	0	0	1	2	1
Discharge Permits (renewal) **	12	1	0	0	3	1	1	1	1	1	2	2
Industrial Flow, MG	142.97	156.44	144.70	98.82	68.57	90.15	89.05	81.89	73.65	70.73	74.30	
Industrial BOD, lbs.	985,320	1,029,260	813,140	467,460	444,610	393,450	567,500	601,390	509,000	475,470	480,610	
Industrial TSS, lbs.	429,250	507,970	519,040	208,480	99,590	121,290	135,490	137,740	104,090	114,680	154,480	
Industrial Revenue	\$ 579,764	\$ 592,223	\$ 578,116	\$ 524,212	\$ 499,406	\$ 537,279	\$ 545,053	\$547,973	\$517,130	\$512,413	\$516,386	
Pretreatment Enforcement Actions***	4	4	2	5	6	3	2	5	9	6	4	5
<b>Waste Hauler Program</b>												
Trucked-in Waste Loads	252	259	222	244	221	234	270	224	282	262	261	
Trucked-in Waste Gallons	746,812	769,775	668,560	730,670	671,344	704,271	821,995	667,352	830,982	782,239	760,047	
Trucked-in Waste Revenue	\$ 26,937	\$ 27,707	\$ 23,834	\$ 26,156	\$ 23,783	\$ 25,118	\$ 29,074	\$ 23,978	\$ 30,098	\$ 28,062	\$ 27,768	
<b>Stormwater Program</b>												
Hazardous Materials Spills ****	0	0	0	0	0	0	1	1	0	1	0	0
Stormwater Complaints	2	0	7	0	0	3	3	0	1	2	2	0
Stormwater Enforcement Actions*****	0	0	4	0	0	1	1	0	2	2	1	0
<b>FOG Program</b>												
FOG Initial Inspections	78	81	80	92	21	0	82	67	83	89	109	73
FOG Enforcement Actions	57	57	59	70	47	37	41	42	45	58	54	47
FOG Follow-up Inspections	36	38	37	59	76	78	23	27	40	46	46	53

## Laboratory

Table 6.1 – Acute Toxicity Testing Summary

Date of EFF-001 Sample (composite)	Percent survival	Lab
01-03-16	100	PERL
02-02-16	100	PERL

### Chronic Toxicity

Table 6.2 – Algae (*Selenastrum capricornutum*)

Sample Date	NOEC	TUc (100/NOEC)	Comments
01-11-15	100%	1.0	Lab water control
06-07-15	100%	1.0	Lab water control
09-08-15	100%	1.0	Lab water control
11-01-15	100%	1.0	Lab water control

Testing continues quarterly.

Table 6.3 – Ceriodaphnia (*C. dubia*)

Sample Date	Survival		Reproduction	
	NOEC	TUc (100/NOEC)	NOEC	TUc (100/NOEL)
01-11-15 <sup>1</sup>	< 100%	> 1.0	<100%	> 1.0
02-01-15 <sup>2</sup>	100%	1.0	100%	1.0
02-15-15 <sup>3</sup>	100%	1.0	100%	1.0
03-01-15 <sup>4</sup>	100%	1.0	100%	1.0
03-15-15 <sup>5</sup>	100%	1.0	100%	1.0
06-07-15 <sup>6</sup>	100%	1.0	< 100%	> 1.0
07-12-15 <sup>7</sup>	100%	1.0	100%	1.0
07-26-15 <sup>8</sup>	100%	1.0	100%	1.0
08-11-15 <sup>9</sup>	100%	1.0	100%	1.0
8-23-15 <sup>10</sup>	100%	1.0	100%	1.0
09-08-15	100%	1.0	100%	1.0
11-03-15	100%	1.0	100%	1.0

<sup>1</sup> January 2015: Toxicity to survival and reproduction initiates accelerated monitoring.

<sup>2</sup> Accelerated Test #1 of 4

<sup>4</sup> Accelerated Test #3 of 4

<sup>3</sup> Accelerated Test #2 of 4

<sup>5</sup> Accelerated Test #4 of 4

<sup>6</sup> June 2015: Toxicity to reproduction initiates accelerated monitoring.

<sup>7</sup> Accelerated Test #1 of 4

<sup>9</sup> Accelerated Test #3 of 4

<sup>8</sup> Accelerated Test #2 of 4

<sup>10</sup> Accelerated Test #4 of 4

Table 6.4 – Larval Fathead Minnow (*Pimephales Promelas*)

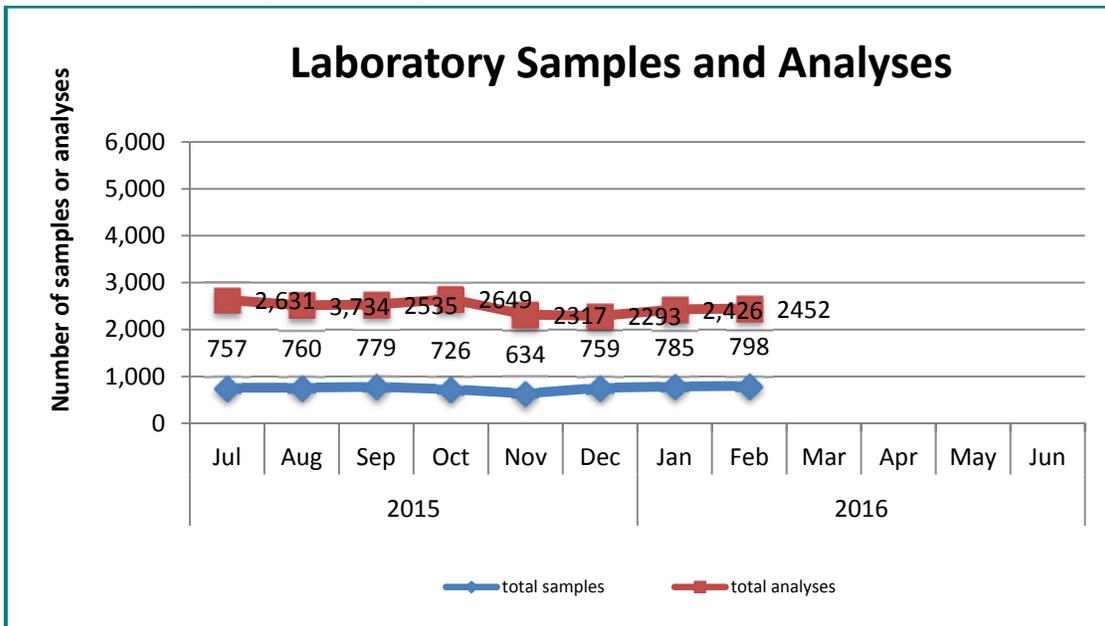
Sample Date	Survival		Growth	
	NOEC	TUc (100/NOEC)	NOEC	TUc (100/NOEL)
01-11-15	100%	1.0	100%	1.0
06-07-15	100%	1.0	100%	1.0
09-08-15	100%	1.0	100%	1.0
11-01-15	100%	1.0	100%	1.0

Testing continues quarterly.

Table 6.5 – Effluent Ammonia-N Summary

EFF-001 (Final Effluent)	Regulatory NH <sub>3</sub> -N, mg/L	Process Control NH <sub>3</sub> -N, mg/L
Monthly Minimum	<0.5	0.29
Monthly Maximum	2.7	0.60
Monthly Average	<1.0	0.41
Number of samples	17	29

Figure 6.A – Laboratory Samples and Analyses



Laboratory Samples and Analyses – Comparison Year 2014-2015

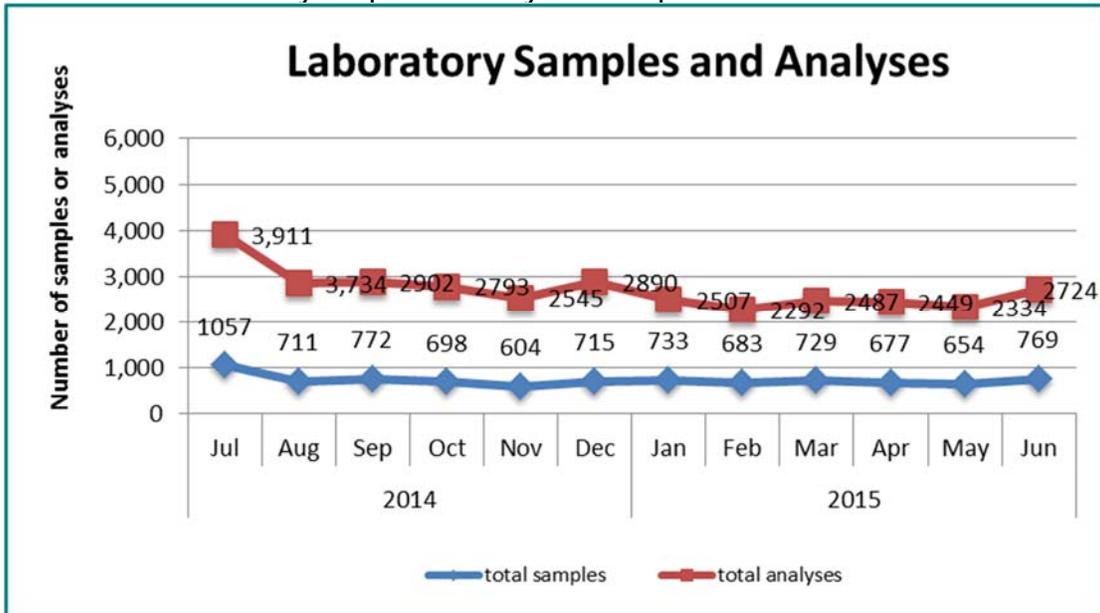
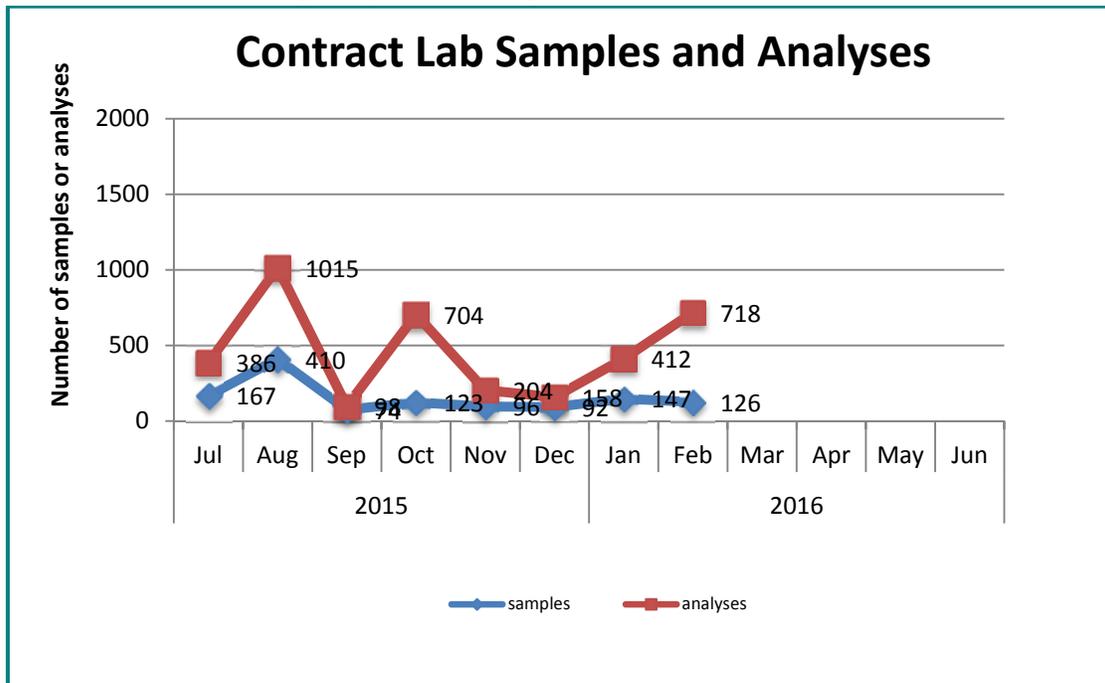


Figure 6.B – Contract Laboratory Samples and Analyses



Contract Laboratory Samples and Analyses – Comparison Year 2014-2015

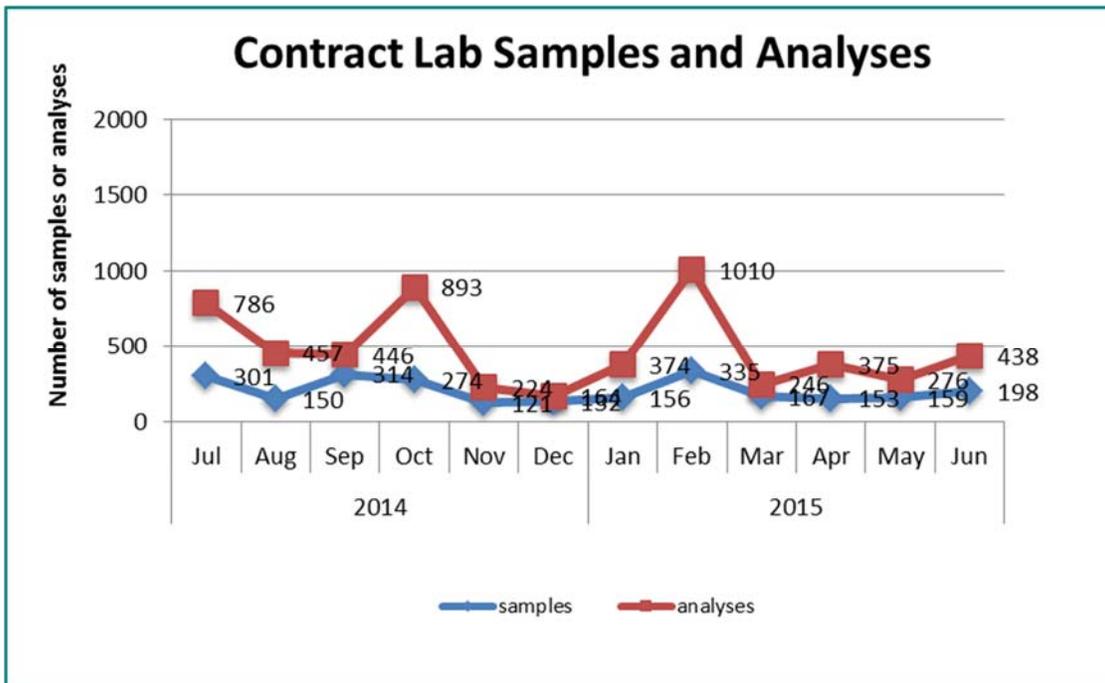
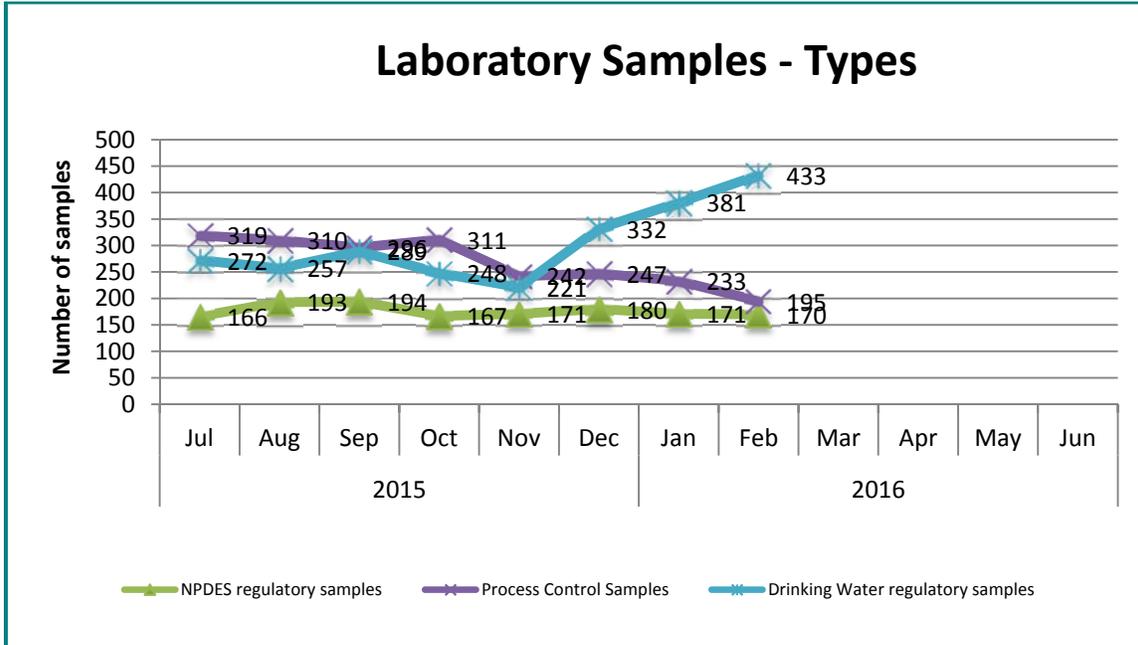
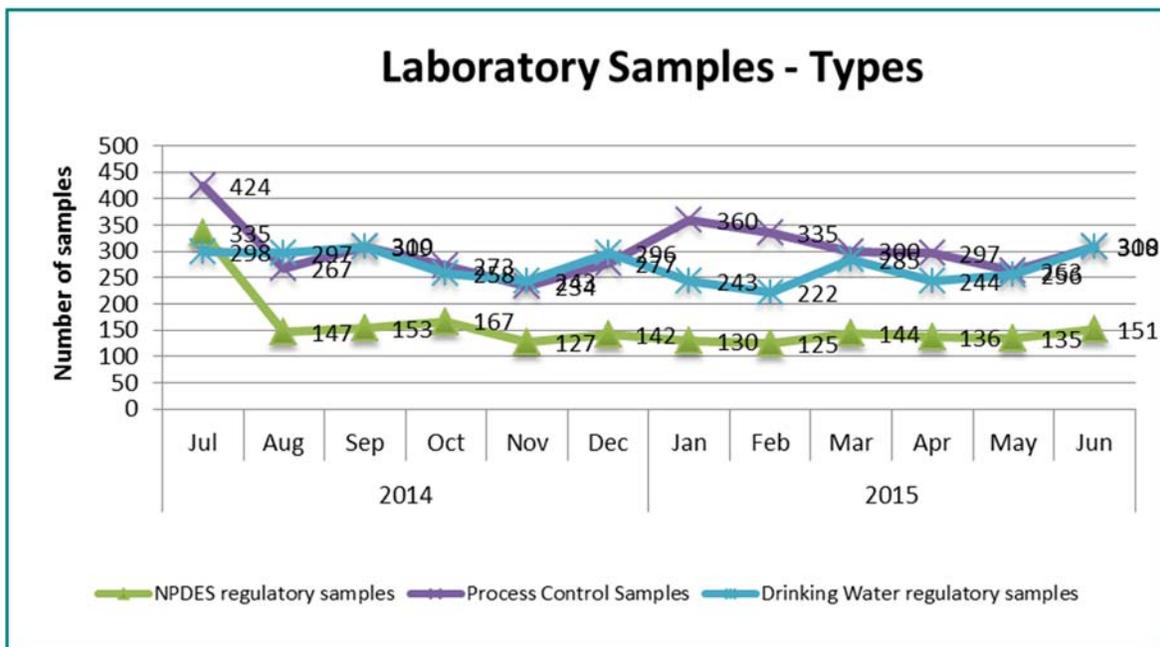


Figure 6.C – Laboratory Sample Types



Laboratory Sample Types Comparison Year 2014-2015



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## Engineering

Figure 7.A – Development Reviews Received and Completed

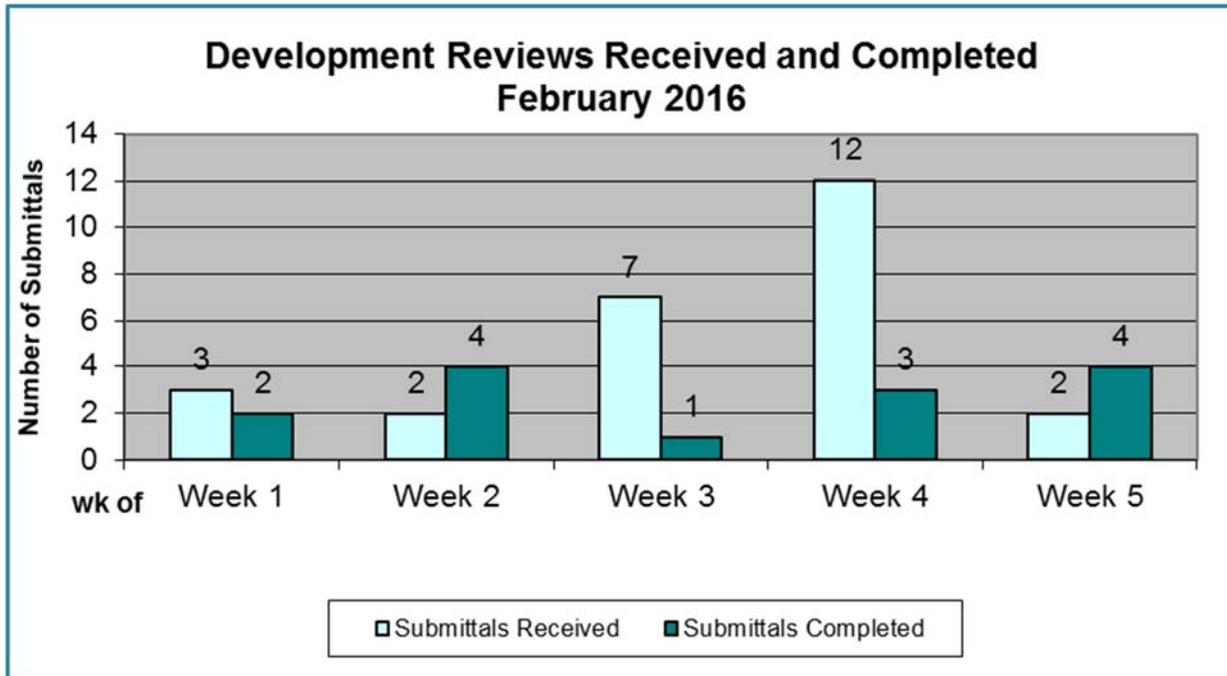
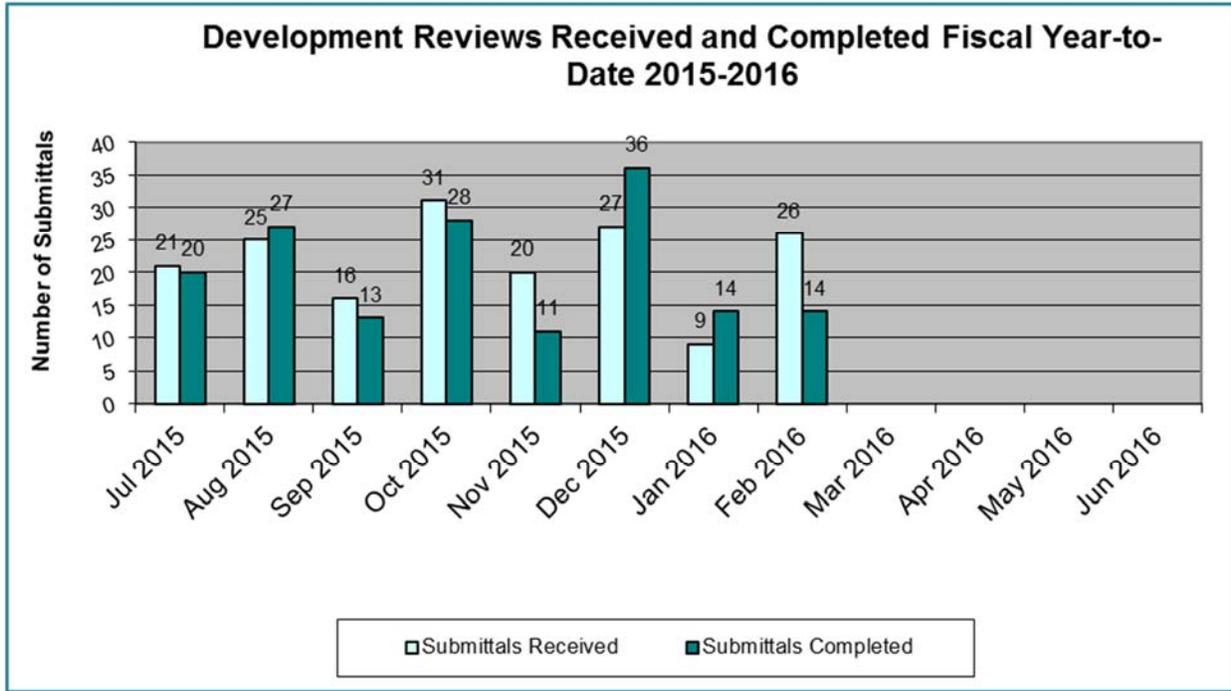


Figure 7.B – Development Reviews Received and Completed Year-to-Date



Development Reviews Received and Completed – Comparison Year 2014-2015

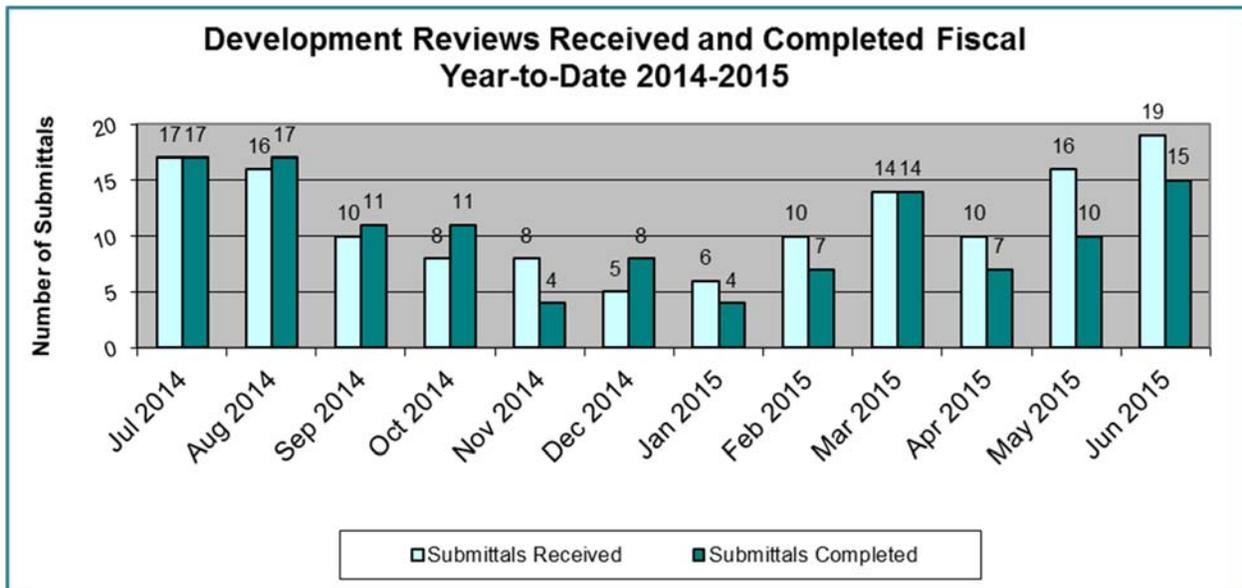
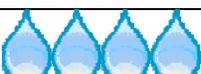
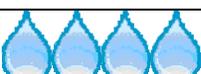
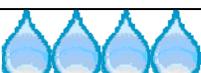


Table 7.1 – Nonpotable, Stormwater, Water, and Wastewater Projects

<i>LEGEND</i>			
<i>Project Type</i>		<i>Phase Of Project</i>	
Nonpotable	Purple		Beginning Planning
Stormwater	Magenta		Planning Completed
Water	Blue		Beginning Design
Wastewater	Green		Ending Design
			Beginning Construction
			Construction Continuing
			Project Completed
<i>Projects</i>	<i>Project Type</i>	<i>Cost</i>	<i>Project Phase</i>
Capital Improvement and Energy Management Plan EIR (M12019)		\$400,000	
CAT Engine Replacement – Phase I & II (M08001)		\$282,800	
Feather River Water Main Crossing at 14-Mile Slough Project (M07056)		\$322,000	
Pershing Sewer Crossing at the Calaveras River (M13005)		\$1,649,000	
Rehabilitate Thornton Road Sanitary Pump Station (M13009)		\$355,940	

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## Stormwater

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Table 8.1 – Stormwater Maintenance Activity Summary

	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	FISCAL YTD
<b>Repairs – Storm</b>													
# of Catch Basin Lateral Repairs/New	1	0	0	0	0	0	0	0					1
Catch Basin Lateral Repairs/New, Linear Feet	16	0	0	0	0	0	0	0					16
# of Storm Main Line Repairs	1	0	0	0	0	0	0	3					4
Storm Main Line Repairs, Linear Feet	3	0	0	0	0	0	0	4					7
# of Catch Basin Storm Repairs/New	1	2	0	1	0	1	1	0					6
# of Storm Maintenance-hole Repairs/New	5	1	0	0	0	0	0	1					7
<b>Storm – Maintenance</b>													
# of Catch Basin Laterals Cleaned	1	28	72	7	16	93	9	5					231
Catch Basin Laterals Jetted, Linear Feet	25	60	245	278	30	152	0	0					790
# of Catch Basin Laterals Rodded	0	0	0	0	1	1	0	0					2
Catch Basin Laterals Rodded, Linear Feet	0	0	0	0	35	2	0	0					37
# of Storm Main Lines Jetted	0	4	0	0	2	1	2	1					10
Storm Main Lines Jetted, Linear Feet	0	664	0	0	400	380	200	400					2,044
# of Storm Main Lines Rodded	0	0	0	0	0	0	5	0					5
Storm Main Lines Rodded, Linear Feet	0	0	0	0	0	0	975	0					975
# of Storm Maintenance-holes Cleaned	0	1	0	0	0	1	1	0					3
# of Storm Pump Stations Cleaned	2	6	3	6	0	0	0	0					17
# of tons of Debris Removed from Storm Stations	.30	6.15	5.00	2.50	0.00	0.00	0	0					13.95
# of Storm Catch Basins Inspected	739	474	239	35	0	3	0	1					1,491
# of Storm Catch Basins Stenciled	332	257	63	0	0	0	0	0					652
# of Storm Event Calls	0	0	0	0	174	17	534	3					728
Storm Event Line Clean-up, Linear Feet	0	0	0	0	55	100	1,659	50					1,1864
TV Storm Line Segment Inspections	1	0	1	0	0	0	1	2					5
TV Storm Line Segment Inspections, Linear Feet	289	0	460	0	0	0	18	77					844
Spoils Storm Pump Stations / CBs - # of Loads	0	0	0	2	1	0	0	0					3
Spoils Storm Pump Stations / CBs - Tonnage	0	0	0.00	18.22	14.40	0.00	0	0					33

(Chart totals do not include work done by contractors.)

(Storm Catch Basins Cleaned is now being combined with # of Catch Basin Laterals Jetted, and added is Storm Catch Basins stolen)

## Comparison Year 2014-2015 – Stormwater Maintenance Activity Summary

	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	FISCAL YTD
<b>Repairs – Storm</b>													
# of Catch Basin Lateral Repairs/New	0	0	0	0	0	0	0	0	0	0	0	0	0
Catch Basin Lateral Repairs/New, Linear Feet	0	0	0	0	0	0	0	0	0	0	0	0	0
# of Storm Main Line Repairs	0	0	0	1	0	0	0	0	0	0	0	0	1
Storm Main Line Repairs, Linear Feet	0	0	0	0	0	0	0	0	0	0	0	0	0
# of Catch Basin Storm Repairs/New	1	0	0	0	0	0	0	1	0	1	5	0	8
# of Storm Maintenance-hole Repairs/New	0	0	1	1	0	0	0	0	0	1	2	0	5
<b>Storm – Maintenance</b>													
# of Catch Basin Laterals Cleaned	23	17	44	21	14	131	9	25	0	9	0	12	305
Catch Basin Laterals Jetted, Linear Feet	12	100	20	500	560	650	250	275	0	100	0	600	3,067
# of Catch Basin Laterals Rodded	0	0	0	0	0	16	1	1	0	0	0	0	18
Catch Basin Laterals Rodded, Linear Feet	0	0	0	0	0	635	50	95	0	0	0	0	780
# of Storm Main Lines Jetted	1	0	1	0	1	1	0	3	0	5	4	0	16
Storm Main Lines Jetted, Linear Feet	437	0	250	0	210	400	0	634	0	1,842	550	0	4,323
# of Storm Main Lines Rodded	0	0	0	0	0	0	0	0	0	0	0	0	0
Storm Main Lines Rodded, Linear Feet	0	0	0	0	0	0	0	0	0	0	0	0	0
# of Storm Catch Basins Stolen	17	16	15	35	14	22	19	6	13	6	7	5	175
# of Storm Maintenance-holes Cleaned	3	0	1	0	14	2	0	2	1	2	1	0	26
# of Storm Pump Stations Cleaned	0	1	12	14	6	0	0	0	4	3	5	0	45
# of tons of Debris Removed from Storm Stations	0	.25	13.40	12.35	4.65	0	0	0	2.60	1.25	1.35	0	35.85
# of Storm Catch Basins Inspected	827	513	122	8	0	0	0	0	73	379	263	684	2,869
# of Storm Catch Basins Stenciled	299	189	23	0	0	0	0	0	12	119	136	422	1,200
# of Storm Event Calls	0	0	1	0	14	850	0	16	0	82	0	0	963
Storm Event Line Clean-up, Linear Feet	0	0	0	0	0	1,871	0	0	0	125	0	0	1,996
TV Storm Line Segment Inspections	2	4	3	0	0	0	0	1	0	0	2	2	14
TV Storm Line Segment Inspections, Linear Feet	198	184	121	0	0	0	0	286	0	0	1,069	100	1,958
Spoils Storm Pump Stations / CBs - # of Loads	1	0	0	23	0	0	1	0	3	0	0	0	28
Spoils Storm Pump Stations / CBs - Tonnage	12.18	0	0	131.83	0	0	7.77	0	35.90	0	0	0	187.68

(Chart totals do not include work done by contractors.)

(Storm Catch Basins Cleaned is now being combined with # of Catch Basin Laterals Jetted, and added is Storm Catch Basins stolen)

Table 8.2 – Inspections

	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>
Total Sites	18	22			20	22	22	24				
Inspections	18	22			20	22	22	24				
Verbal Warnings	4	8			10	9	11	13				
Correction Orders	2	6			5	7	9	10				
Notice to Clean	2	6			7	7	5	7				
Notice of Violation	1	0			0	0	0	0				
Admin. Citations	1	0			0	0	0	0				
Referred to RWQCB	1	0			0	0	0	0				

Inspections – Comparison Year 2014-2015

	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>
Total Sites	24	25	24	23	22	21	23	22	19	19	18	16
Inspections	24	25	24	23	22	21	23	22	19	19	18	16
Verbal Warnings	9	11	9	10	9	8	7	6	5	8	8	5
Correction Orders	3	6	4	8	8	6	6	8	3	6	5	2
Notice to Clean	5	6	9	8	9	6	4	5	5	5	5	3
Notice of Violation	0	0	0	1	0	0	0	0	0	0	0	0
Admin. Citations	0	0	0	1	0	0	0	0	0	0	0	0
Referred to RWQCB	0	0	0		0	1	0	1	0	0	0	0

Table 8.3 –Stormwater Pumping Facilities Work Order Summary Year 2015-2016

	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
<b>Pump Station Mechanical</b>												
<i>Corrective Maintenance</i>	11	22	8	8	11	8	21	10				
% Completed	54.5	50.0	50	37.5	54.5	87.5	10	60.0				
% Backlog	45.5	50.0	50	62.5	45.5	12.5	52.4	40.0				
<i>Preventive Maintenance</i>												
% Backlog	81.1	41.0	69.2	74.8	76.1	27.8	75.7	50.3				
<b>Pump Station Electrical</b>												
<i>Corrective Maintenance</i>	9	15	13	6	12	6	14	9				
% Completed	100.0	80.0	53.8	66.7	100.0	100.0	71.4	88.9				
% Backlog	0.0	20.0	46.2	33.3	0.0	0.0	28.6	11.1				
<i>Preventive Maintenance</i>												
% Backlog	75.0	100.0	100	100	0.0	77.3	0.0	52.2				

Work Order Summary - Comparison Year 2014-2015

	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
<b>Pump Station Mechanical</b>												
<i>Corrective Maintenance</i>	16	16	17	7	9	25	18	11	19	19	23	15
% Completed	87.5	81.3	82.4	42.9	100.0	72.0	72.2	90.9	94.7	31.6	0.0	53.3
% Backlog	12.5	18.7	17.6	57.1	0.0	28.0	27.8	9.1	5.3	68.4	100.0	46.7
<i>Preventive Maintenance</i>												
% Backlog	44.0	73.6	69.2	74.4	34.5	51.7	75.3	61.2	55.3	72.2	97.1	51.0
<b>Pump Station Electrical</b>												
<i>Corrective Maintenance</i>	10	13	15	5	17	21	8	9	7	16	7	1
% Completed	90	76.9	80.0	40.0	70.6	95.2	87.5	88.9	85.7	75.0	85.7	0.0
% Backlog	10	23.1	20.0	60.0	29.4	4.8	12.5	11.1	14.3	25.0	14.3	100.0
<i>Preventive Maintenance</i>												
% Backlog	N/A	N/A	94.7	100.0	100.0	80.0	100.0	100.0	86.3	100.0	100.0	93.3

## Administration

### Safety and Training Activities

Table 9.1 – Summary of Unsafe Conditions or Acts

	<i>Current Month</i>	<i>Calendar Year</i>
Number of Unsafe Conditions or Acts Reported	0	1
Number of Vehicle Incidents: No Fault of Employee	3	3
Number of Vehicle Incidents: Fault of Employee	1	1

Table 9.2 – Summary of Work-Related Injuries and Illnesses

	<i>Current Month</i>	<i>Calendar Year</i>
Number of Cases	3	3
Number of Cases with Lost Time	0	0
Number of Cases with Work Restrictions	2	2

Table 9.3 – Summary of Safety Training

	<i>Hours Delivered</i>	<i># of Attendees</i>	<i>Total Attendee Hours</i>
<b>Tailgate Sessions</b>			
Safety Committee Review	1	16	16
Driving Safety	1	32	32
Fire Extinguishers	1	10	10
Confined Space	1	16	16
Slips, Trips and Falls	1	12	12
<b>Training</b>			
Forklift Training	6	6	36
Fit Testing	1	16	16
New Hire Safety Orientation	2	6	12
CPR, First Aid & AED	6	20	120
<b>TOTAL</b>	<b>20</b>	<b>134</b>	<b>270</b>

### Human Resources Operational Activities

Table 9.4 – Staffing Summary

<i>Divisions</i>	<i># of Positions</i>	<i># of Employees</i>	<i>Vacancies</i>	<i>Change (+/-)</i>
Administration	18	14	4	+1
Financial Services	5	5	0	
Collections	47	45	2	
Engineering	14	13	1	
Environmental Control	7	6	1	
Laboratory	7	6	1	-1 / +1
Maintenance	43	36	7	
Wastewater Treatment	32	30	2	
Water Treatment/Distribution	27	26	1	
Water Resources/Treatment	17	15	2	
<b>Total Staff Count</b>	<b>217</b>	<b>196</b>	<b>21</b>	<b>+2 / -1</b>

Table 9.5 – Overtime Summary

<i>Division</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>
Administration	8	3	22.25	14.75	17.75	12.75	26.25	18.75				
Financial Services	0	0	0	0	0	0	2.5	3.25				
Collections	465	473.25	518	438	167	220.5	250.25	210.75				
Engineering	0	4	9.5	21	6	0	0	0				
Env. Control	32.5	13.5	5	28	29.5	40	9	19.5				
Laboratory	10	0	7.5	0	16	8.75	18.5	13.75				
Maintenance	248	352.75	279	574.25	198.5	296.75	796.00	376.25				
WW Treatment	567	754.75	658.5	689.75	959.25	686.25	744.75	760.25				
Stormwater	0	0	0	0	0	0	0	0				
Water Distribution	192.5	164.75	226.25	105.5	124.5	122.5	199.25	103.50				
Water Resources	0	0	7.5	0	0	0	0	0				
Water Treatment	359.5	331.50	261.25	368	466.25	347.25	364.75	269.75				
<b>TOTALS</b>	<b>1882.50</b>	<b>2097.50</b>	<b>1994.75</b>	<b>2239.25</b>	<b>1984.50</b>	<b>1734.75</b>	<b>2411.25</b>	<b>1775.75</b>				

Overtime Summary – Comparison Year 2014-2015

<i>Division</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>
Administration	38.5	43.25	28.25	55.25	55	45.5	82.25	79.75	39.25	3.75	10.25	7.75
Financial Services	0	0	15.5	0	0	0	0	9	8	0	0	0
Collections	276.75	438	368	729.5	571.25	663	648.75	656.75	441	707.50	553	118.75
Engineering	14	6.5	26	31.5	15	8	28.50	6.5	4.5	2.5	0	0
Env. Control	55	11	67.50	91.5	33	23.25	33.75	22.5	31.75	51	36.5	21.25
Laboratory	28.25	47.75	60.75	45.25	58.75	30.5	65.5	59.5	61	53.5	88	46
Maintenance	170	182	340	395.5	286.25	179.75	202.75	338.75	232.75	333.75	271	184.75
WW Treatment	601	688.50	775.50	707	722.50	651.25	614.5	441.5	716.5	538.5	836.	538.25
Stormwater	0	2	17.5	0	0	0	0	2.5	26.5	0	0	0
Water Distribution	182.5	166.5	190	245	67.75	118.25	134.25	42.25	130.25	120.75	94.75	182.25
Water Resources	0	4	21.5	0	0	0	0	0	0	7	7.5	0
Water Treatment	371.25	459.75	332.25	323.5	427	424	360.75	510	397	365	556.25	420.50
<b>TOTALS</b>	<b>1,737.25</b>	<b>2,049.25</b>	<b>2,242.75</b>	<b>2,624</b>	<b>2,236.50</b>	<b>2143.50</b>	<b>2171.00</b>	<b>2169.00</b>	<b>2088.50</b>	<b>2183.25</b>	<b>2453.25</b>	<b>1519.50</b>

# Appendix A

## Water

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### **Title 22 Compliance Water Well Sampling Summary Well System Operations**

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## Title 22 Compliance - Drinking Water Monitoring

### Compliance Sampling

Source (Well # or DS)	Sample Date	Parameter
DS	01-28-16	Quarterly DBP Monitoring (1st after start of chloramination)

### Exceptions

(none)

### Well Status Changes

(none)

### Other

(none)



# Appendix B

## Environmental Compliance

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**Monitored Industrial User Charges**

**Customer Charges Report**

**Septic Waste Haulers' Charges**

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December-15

## MONITORED INDUSTRIAL USER MONTHLY CHARGES

2/24/2016

CUST ID #	COMPANY	CHG CODE	STANDBY			SUB-TOTAL	LOADING			OTHER	SUB-TOTAL	ADMIN FEE	TOTAL
			FLOW	BOD	TSS		FLOW	BOD	TSS				
6305	American Sunny Foods	SIM15	0.48	1.20	0.45	\$439.94	0.06	0.13	0.07	\$0.00	\$37.69	\$22.80	\$500.44
86601	Boretech Resource Recovery	SIM33	0.33	0.28	0.06	\$230.28	0.32	0.08	0.06	\$0.00	\$175.36	\$22.80	\$428.45
85629	Foodliner	SIM16	0.51	12.51	1.25	\$1,621.10	0.16	2.69	0.27	\$0.00	\$195.96	\$22.80	\$1,839.86
84901	Niagara 811 Zephyr	SIM28	7.86	12.78	3.29	\$4,984.15	1.97	0.24	0.39	\$0.00	\$1,060.85	\$22.80	\$6,067.80
6290	California Spray Dry Co.	SIM2	5.10	118.00	28.00	\$16,622.99	1.00	0.00	0.00	\$0.00	\$521.56	\$22.80	\$17,167.35
4990	California Tank Lines	SIM17	1.00	14.18	4.90	\$2,341.14	0.65	3.89	2.98	\$0.00	\$655.77	\$22.80	\$3,019.72
6240	Campbell Soup Supply	SIM12	65.00	330.00	230.00	\$87,978.55	0.00	0.00	0.00	\$0.00	\$0.00	\$22.80	\$88,001.35
43328	Cintas Corporation	SIM24	3.60	23.00	12.00	\$5,281.87	3.18	5.27	2.57	\$0.00	\$2,000.84	\$22.80	\$7,305.52
6245	Ingredion Incorporated	SIM3	40.45	578.72	147.41	\$91,573.98	23.67	578.72	147.41	\$0.00	\$42,007.39	\$22.80	\$133,604.16
83095	California Health Care Facility	USI6				\$0.00	1.64			\$0.00	\$4,371.76	\$22.80	\$4,394.56
43838	Midway, Crosstown Commons	SIM4	3.00	10.00	0.30	\$2,812.10	0.41	0.06	0.08	\$0.00	\$218.57	\$22.80	\$3,053.47
6270	Diamond of California	SIM5	8.00	210.00	145.00	\$35,730.97	1.73	27.75	7.03	\$0.00	\$2,320.45	\$22.80	\$38,074.22
75519	Dole Packaged Foods LLC Stock	SIM30	1.22	10.30	5.22	\$2,115.00	0.21	1.08	0.34	\$0.00	\$170.23	\$22.80	\$2,308.04
5700	Duraflame	SIM14	3.10	3.75	1.75	\$1,997.99	0.13	0.03	0.02	\$0.00	\$71.53	\$22.80	\$2,092.33
5100	San Joaquin County French Camp	USI4					7.30			\$0.00	\$19,519.76	\$22.80	\$19,542.56
34202	Grimaud Farms	SIM19	0.80	6.00	2.00	\$1,213.07	0.74	5.73	1.47	\$0.00	\$678.31	\$22.80	\$1,914.18
47912	New Stockton Poultry	SIM25	0.75	8.37	3.04	\$1,488.96	0.67	2.89	1.45	\$0.00	\$537.95	\$22.80	\$2,049.71
52651	Niagara	SIM27	7.50	2.04	0.69	\$4,780.05	5.17	0.12	0.00	\$0.00	\$2,706.59	\$22.80	\$7,509.43
5625	Northern California Youth Center	USI3					4.53			\$0.00	\$12,104.90	\$22.80	\$12,127.70
61265	Pacific Ethanol	SIM29	4.50	3.94	1.45	\$3,207.80	1.41	0.80	0.53	\$0.00	\$797.17	\$22.80	\$4,027.77
33746	Parsons Engineering Science	USI5					0.17			\$0.00	\$364.11	\$22.80	\$386.91
11149	Port of Stockton - Rough and Ready	USI2					14.63			\$0.00	\$39,109.63	\$22.80	\$39,132.43
6250	DTE	SIM10	5.50	7.62	7.62	\$4,612.65	4.23	0.63	1.16	\$0.00	\$2,298.16	\$22.80	\$6,933.61
86113	Aramark	SIM18	6.93	29.60	6.77	\$7,565.99	3.34	6.47	2.49	\$0.00	\$2,125.61	\$22.80	\$9,714.40
21193	Stockton Sanitary Wash Rack	SIM20	0.64	50.06	5.12	\$5,646.72	0.13	30.17	0.32	\$0.00	\$1,182.53	\$22.80	\$6,852.05
42136	Tankerwash USA	SIM22	1.00	22.39	6.79	\$3,279.17	0.60	14.34	1.20	\$0.00	\$906.96	\$22.80	\$4,208.92
86504	R&B Foods	SIM13	60.00	675.00	300.00	\$123,702.15	1.05	0.04	0.87	\$0.00	\$600.79	\$22.80	\$124,325.74
40039	Unifirst Corp	SIM21	3.25	16.82	4.44	\$3,925.47	2.09	12.22	2.97	\$0.00	\$1,708.25	\$22.80	\$5,656.52
80635	Wilmar Gavilon LLC	SIM31	1.00	1.50	1.00	\$822.34	0.28	0.41	0.29	\$0.00	\$178.08	\$22.80	\$1,023.21
83602	Zacky Kitchens	SIM11	5.37	6.32	8.86	\$4,495.53	1.00	2.68	1.43	\$0.00	\$702.79	\$22.80	\$5,221.12
APPROVED BY:			236.88	2154.37	927.40	\$418,469.96	82.45	696.45	175.37	\$0.00	\$139,329.54	\$684.00	\$558,483.50

\$558,483.50

COMPANY	CURRENT FLOW READING	PREVIOUS FLOW READING	TOTAL MONTHLY FLOW	AVERAGE BOD	TOTAL 1,000 LBS BOD	AVERAGE TSS	TOTAL 1,000 LBS TSS	OTHER CHARGES	DATE ENTERED Mo-Yr.
American Sunny Foods	2645342	2589954	0.06	292	0.13	143.75	0.07	\$0.00	Feb-16
Boretech Resource Recovery	3332058	3008099	0.32	30	0.08	20.75	0.06	\$0.00	Feb-16
Foodliner	27104846	26947340	0.16	2050	2.69	205.25	0.27	\$0.00	Feb-16
Niagara 811 Zephyr	187001894	185030394	1.97	14.5	0.24	23.5	0.39	\$0.00	Feb-16
California Spray Dry Co.	226767553	225768938	1.00	0	0.00	0	0.00	\$0.00	Feb-16
California Tank lines	71117629	70464891	0.65	715	3.89	547	2.98	\$0.00	Feb-16
Campbell Soup Supply	423604130	422622230	0.00						Feb-16
Cintas Corporation	135190780	132013100	3.18	199	5.27	97	2.57	\$0.00	Feb-16
Inqredion	934903104	911231488	23.67	2931	578.72	747	147.41	\$0.00	Feb-16
California Health Care Facility	121904	44665120	1.64	0	0.00	0	0.00	\$0.00	Feb-16
Midway, Crosstown Commons	1294980	831550	0.41	19	0.06	22.5	0.08	\$0.00	Feb-16
Diamond of California			1.73	1927	27.75	488	7.03	\$0.00	Feb-16
Dole Packaged Foods LLC Stockton	21079809	20867234	0.21	610	1.08	192.25	0.34	\$0.00	Feb-16
Duraflame/Cal Cedar	5277511	5144818	0.13	29	0.03	16.5	0.02	\$0.00	Feb-16
San Joaquin County - French Camp			7.30					\$0.00	Feb-16
Grimaud Farms	94393283	93658071	0.74	935	5.73	240	1.47	\$0.00	Feb-16
New Stockton Poultry	68685019	68018528	0.67	519.75	2.89	261.75	1.45	\$0.00	Feb-16
Niagara	35739065	30565082	5.17	2.75	0.12	0	0.00	\$0.00	Feb-16
Northern California Youth Center	147883968	143419680	4.53	390	14.73	206	7.78	\$0.00	Feb-16
Pacific Ethanol	100952869	99541383	1.41	68	0.80	45	0.53	\$0.00	Feb-16
Parsons Engineering Science			0.17					\$0.00	Feb-16
Port of Stockton - Rough and Ready			14.63					\$0.00	Feb-16
DTE Stockton	102650179	98423238	4.23	17.75	0.63	33	1.16	\$0.00	Feb-16
Aramark	2302100	6068400	3.34	232	6.47	89.40	2.49	\$0.00	Feb-16
Stockton Sanitary Wash Rack	2632451	2506008	0.13	28613	30.17	301	0.32	\$0.00	Feb-16
Tankerwash USA	57343198	56739287	0.60	2848	14.34	238	1.20	\$0.00	Feb-16
R&B Foods	127990	282096670	1.05	3	0.04	52	0.87	\$0.00	Feb-16
Unifirst Corp	87479719	85391343	2.09	702	12.22	170.5	2.97	\$0.00	Feb-16
Wilmar Gaviion LLC	6784974	6504308	0.28	175	0.41	122.0	0.29	\$0.00	Feb-16
Zacky Kitchens	124094066	123094297	1.00	319	2.68	171	1.43	\$0.00	Feb-16
<b>TOTAL</b>			<b>82.45</b>		<b>711.18</b>		<b>183.15</b>	<b>\$0.00</b>	

## Customer Monthly Charges Report

Date Range: 1/1/2016 to 1/31/2016

Customer ID	Customer Name	Total Gallons	Gallon Charge	Trip Charge	Other Charges	Total Charges
85508	A-1 Septic	0	\$0.00	\$0.00	\$0.00	\$0.00
10708	A & A Portables	25,885	\$252.38	\$1,001.00	\$0.00	\$1,253.38
78477	A & J Rentals	5,850	\$57.04	\$693.00	\$0.00	\$750.04
11153	AAA Septic & Rooter	85,000	\$828.75	\$1,925.00	\$0.00	\$2,753.75
11491	ABC Plumbing	0	\$0.00	\$0.00	\$0.00	\$0.00
10495	ET Services	0	\$0.00	\$0.00	\$0.00	\$0.00
6195	Frank & Jrs Sewer Service	66,150	\$644.96	\$1,617.00	\$0.00	\$2,261.96
6200	G & C Septic	16,392	\$159.82	\$385.00	\$0.00	\$544.82
4735	Parrish and Sons	108,000	\$1,053.00	\$2,310.00	\$0.00	\$3,363.00
75717	Premium Packing	3,000	\$29.25	\$154.00	\$0.00	\$183.25
6210	Richards Pumping	145,000	\$1,413.75	\$4,466.00	\$0.00	\$5,879.75
39444	Roto Rooter Sewer Service	188,042	\$1,833.41	\$4,389.00	\$0.00	\$6,222.41
74032	SRC Pumping Co	48,994	\$477.69	\$847.00	\$0.00	\$1,324.69
<b>Grand Totals</b>		<b>692,313</b>	<b>\$6,750.05</b>	<b>\$17,787.00</b>	<b>\$0.00</b>	<b>\$24,537.05</b>

**Approved By:** \_\_\_\_\_

**Septic Waste Haulers Monthly Charges**

Date Range: 1/1/2016 to 1/31/2016

<b>Customer Name</b>	<b>Truck License</b>	<b>Tank Capacity</b>	<b>Total Trips</b>	<b>Total Gallons</b>	<b>Per 1000 Gal \$9.75</b>	<b>Per Trip \$77.00</b>	<b>Additional Charges</b>
A-1 Septic	52396P1	2500	0	0	\$0.00	\$0.00	\$0.00
A&A Portables	54107P1	1600	7	11,200	\$109.20	\$539.00	\$0.00
A&A Portables	8K42091	3495	1	3,495	\$34.08	\$77.00	\$0.00
A&A Portables	8H57716	1400	3	4,200	\$40.95	\$231.00	\$0.00
A&A Portables	27308L1	2000	0	0	\$0.00	\$0.00	\$0.00
A&A Portables	7X14631	1500	0	0	\$0.00	\$0.00	\$0.00
A&A Portables	44377M1	3495	2	6,990	\$68.15	\$154.00	\$0.00
A&J Rentals	8A44004	650	9	5,850	\$57.04	\$693.00	\$0.00
AAA Septic & Rooter	7S15871	3400	25	85,000	\$828.75	\$1,925.00	\$0.00
ABC Plumbing	7X61008	2400	0	0	\$0.00	\$0.00	\$0.00
ET Services	7M36196	4000	0	0	\$0.00	\$0.00	\$0.00
Frank & Jrs Sewer Service	8M50181	3150	21	66,150	\$644.96	\$1,617.00	\$0.00
G&C Septic	33525L1	3350	3	10,050	\$97.99	\$231.00	\$0.00
G&C Septic	8W07059	3171	2	6,342	\$61.83	\$154.00	\$0.00
Parrish and Sons	43308P1	3600	30	108,000	\$1,053.00	\$2,310.00	\$0.00
Parrish and Sons	7H09683	3400	0	0	\$0.00	\$0.00	\$0.00
Premium Packing	7R84640	1500	2	3,000	\$29.25	\$154.00	\$0.00
Richards Pumping	SE598579	2500	58	145,000	\$1,413.75	\$4,466.00	\$0.00
Roto Rooter Sewer Services	7T36952	3382	31	104,842	\$1,022.21	\$2,387.00	\$0.00
Roto Rooter Sewer Services	5E84939	3200	26	83,200	\$811.20	\$2,002.00	\$0.00
SRC Pumping Co	4DE5675	4454	11	48,994	\$477.69	\$847.00	\$0.00
<b>Monthly Total Charges:</b>			<b>231</b>	<b>692,313</b>	<b>\$6,750.05</b>	<b>\$17,787.00</b>	<b>\$0.00</b>

**Grand Total: \$24,537.05**