



**Monthly
Operations
and
Maintenance
Report**

April 2016

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Acronyms and Abbreviations

ACRONYM	DEFINITION
- A -	
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 -	
BACC	Bay Area Chemical Consortium
BACM	Best Available Control Measure
BCP	Business Continuity Plan
BFP	Belt Filter Press
BMP	Best Management Practice
BOD	Biochemical Oxygen Demand
BOD ₅	Standard Biochemical Oxygen Demand – 5 day
BOO	Build-Own-Operate
BOT	Build-Own-Transfer
BPMS	Backflow Prevention Management System
BTU	British Thermal Unit
- C -	
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
CCO	Contract Change Order
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 ₄	Methane
CIEMP	Capital Improvement and Energy Management Plan
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

ACRONYM	DEFINITION
CMMS	Computerized Maintenance Management Systems
CPFF	Cost Plus Fixed Fee
CPIF	Cost Plus Incentive Fee
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
- D -	
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
- E -	
EC	Environmental Control Division
EC	Effective Concentration
ECTDS	Electrical Conductivity and Total Dissolved Solids
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

ACRONYM	DEFINITION
- F -	
FA	First Aid
FBI	Federal Bureau of Investigation
FEMA	Federal Emergency Management Agency
FFY	Federal Fiscal Year
FFP	Firm Fixed Price
FIP	Federal Implementation Plan
FOG	Fats, Oils, and Grease
FY	Fiscal Year
- G -	
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
- H -	
H ₂ 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
- I -	
I&C	Instrumentation and Control
IC	Inhibition Concentration
IC	Incident Commander
ICS	Incident Command System
I/I	Infiltration/Inflow
IPP	Industrial Pretreatment Program

ACRONYM	DEFINITION
IO	Information Officer
IPM	Integrated Pest Management
IT	Information Technology
- J – K -	
JPA	Joint (exercise of) Powers Authority
- L -	
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
- M -	
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
- N -	
NaOCl	Sodium Hypochlorite
NaOH	Sodium Hydroxide
NBT	Nitrifying Biotower
NH ₃ -N	Ammonia Nitrogen
NIMS	National Incident Management Systems

ACRONYM	DEFINITION
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
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
NSPAF	North Stockton Pipeline Ammonia Feed
NTC	Notice To Clean
NTU	Nephelometric Turbidity Units
NWS	National Weather Service
- O -	
O ₃	Ozone
O&M	Operations & Maintenance
OMB	Office of Management and Budget
OSHA	Occupational Safety and Health Administration
OCT	Operator Certification Training, Inc.
- P -	
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

ACRONYM	DEFINITION
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.
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
- Q -	
QA	Quality Assurance
QC	Quality Control
- R -	
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

ACRONYM	DEFINITION
RWQCB	Regional Water Quality Control Board
- S -	
SAR	Sodium Adsorption Ratio
SAWS	Stockton Area Water Suppliers
SCADA	Supervisory Control and Data Acquisition
SCBA	Self-contained Breathing Apparatus
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 ₂	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
- T -	
T&M	Time & Materials (contract)
TC	Total Carbon
TDH	Total Dynamic Head
TDS	Total Dissolved Solids
TTHM	Total Trihalomethanes
TIE	Toxicity Identification Evaluation

ACRONYM	DEFINITION
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 _c	Chronic Toxicity Unit
- U - V -	
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

ACRONYM	DEFINITION
VE	Value Engineering
VFD	Variable Frequency Drive
VOC	Volatile Organic Compound
VSS	Volatile Suspended Solids
VWN	Verbal Warning Notice
- W - X - Y - Z -	
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

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 April 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 April, a 34% reduction in water use was achieved, when compared to April 2013

Water Distribution, Treatment, and Production

Drinking water treated at the Delta Water Treatment Plant, produced from groundwater wells, and delivered from Stockton East Water District to the City's North, South and Walnut Plant Systems totaled approximately 646 million gallons and averaged approximately 22 million gallons per day for the month of April. The Delta Water Treatment Plant stopped diversions from the Delta, and started accepting surface water deliveries from the Woodbridge Irrigation District on March 7, 2016.

Wastewater Treatment

The March 29, 2016 first quarter chronic toxicity tests indicated that the reproduction end-point for the Ceriodaphnia dubia test with effluent from the Regional Wastewater Control Facility exceeded the NPDES Permit's numeric toxicity monitoring trigger of 1 TUc. The City initiated accelerated monitoring in compliance with the NPDES Permit. Results of the first two accelerated tests indicate a toxicity of less than 1 TUc. Work continues on improvements to the chloramination and sodium bisulfite process. Special THM testing is under way to fine tune chemical dosing.

Wastewater Collections

There were 23 Sanitary Sewer Overflows (SSOs) that occurred in April. One was a Category 1, one was a Category 2, and nine were Category 3 SSOs. 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 inspections. The Division is initiating the implementation of a commercial FOG software database system for use in 2016.

Laboratory

The lab analyzed 763 samples for 2,323 analyses. Contract labs analyzed 57 samples for 76 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 157 samples for NPDES Permit compliance, 201 samples for process control, and 405 samples for drinking water compliance.

Engineering

There were 27 development reviews received and 22 completed and returned during April. The Stockton Regional Wastewater Biotower No. 4 Rehabilitation project was advertised on March 18, 2016, and the pre-bid conference was held on March 30, 2016, with seven prospective bidders in attendance. There were three sealed bids received and publicly opened by the City Clerk on April 14. Award of a contract is anticipated in June 2016.

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 eight Verbal Warnings, four Correction Orders, and four Notices to Clean and two Notice of Violation. The Regional Water Quality Control Board One received no referrals by City of Stockton during this period.

Administration

There was one unsafe condition, zero vehicle accidents, and three work-related injuries. A total of 251 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 198 of the approved 217 positions. Overtime increased from last month.

Water Resources

Operational Activities

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, budgeting, capital improvement planning and construction, regulatory compliance, and supporting the Community and Economic Development Departments.

Water Resources staff supports the Delta Water Treatment Plant and Water Distribution by employee recruitments and safety training; preparing budgets; capital improvements; 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 Delta Water Treatment Plant (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. However, 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 (SAWS). SAWS 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 the State of California due to severe drought conditions has led staff to plan for extended drought conditions and increased water conservation messaging for this year. The City water utility's conservation target was mandated at 28% by the State Water Resources Control Board, 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. On April 1, the State Water Resources Control Board lowered the City water utility's water conservation savings to 26%, down from 28%.

For the month of April, the City achieved a 34% 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 33 complaints received for the month of April, and staff was able to resolve all 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.

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 covers 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 be recommending 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. Customers surveyed 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, 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. There were 312 visitors to the site this month.

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Water Treatment, Production, and Distribution

Operational Activities

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 (aboveground 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 48,300 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 one bacteriological water quality violations for the month. All three, follow-up repeat samples were negative for total coliform

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. Table 2.1 presents a summary of the Coliform Monitoring results in the distribution system.

Water Treatment

The DWTP stopped diversions from the Delta, and started accepting surface water deliveries from the Woodbridge Irrigation District on March 7, 2016. For the month of April, DWTP treated and produced 483 million gallons, and SEWD delivered 0 and 113 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

Staff ran Well #20 for Title 22 sampling and smog testing. Tests revealed an overheating problem. The Well was repaired. Quarterly Electrical Conductivity and Total Dissolved Solids (ECTDS) well sampling was performed, as well as some additional Title 22 sampling. Personnel continued to fine tune ammonia feed equipment at well sites and North Stockton Pipeline Ammonia Feed (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. 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 two 1-inch and one 1.5-inch service lines. Staff abandoned two old service lines and replaced a four-inch saddle. Personnel assisted distribution crews repairing a blow-off. Crews began work locating and repairing two mainline leaks near the airport off C.E. Dixon. Construction staff continued to assist other crews replacing meters and repairing minor leaks when time permitted.

Hydrant

Crews repaired 15 hydrants. Repairs consisted of cap, O-ring, valve gasket, chain, and coupler repair/replacement. Personnel replaced two 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 48,881 water meters read for monthly billing. There were 787 meters turned-on or locked-off for account openings or closings. Crews responded to six high bill complaints. Staff continued to replace broken registers, repair damaged touch-read wires, and respond to various customer inquiries.

Maintenance

Crews responded to 62 service calls consisting of small meter leaks, emergency customer water shut offs, and answering customer water-related questions. Staff replaced 80 meters ranging from 5/8" to 2" in size and one 4-inch meter. Personnel replaced 66 registers and installed one new meter for new construction. 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. Requests for hydrant meters for new construction continued to increase during the month. 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. This may cause 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.

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

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 Assistant Director has been providing interim oversight since the position became vacant in June 2015. There are 27 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 27.3 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.

On March 29, 2016, the City of Stockton (City) received results for their 2016 first quarter chronic toxicity tests conducted on effluent samples collected March 7–11, 2016. The report indicated that the reproduction end-point for the *Ceriodaphnia dubia* test with effluent from the Regional Wastewater Control Facility exceeded the NPDES Permit's numeric toxicity monitoring trigger of 1 TUc. The City initiated accelerated monitoring in compliance with the NPDES Permit. Accelerated monitoring is a series of four chronic toxicity tests, performed every two weeks following the failed result. Results of the first two accelerated tests are back and indicate a toxicity of less than 1 TUc.

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.

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. Efforts to improve the chloramination process continue with coordination between Operations, Maintenance, and Engineering staff. Additional testing for THMs is ongoing to provide data to adjust chemical dosing in the treatment process. 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.

For the fourth year, the City has participated in the Bay Area Chemical Consortium (BACC) for bidding the chemical contracts. BACC allows multiple agencies to benefit from larger volume purchases to reduce the price of necessary chemicals.

Wastewater Collection Systems

Operational Activities

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 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)

Nine Sanitary Sewer Overflows (SSO) occurred. Eight 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 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 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. 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. There were no odor complaints this month.

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:

- North Pump Station #1 sewage pump - rebuilt and installed
- North Pump Station we installed the # 3 sewage pump
- Weston Ranch Sanitary Station - set up emergency bypass pumping
- Weston Ranch Sanitary Station - # 1 and #2 sewage pump motor - repaired and reinstalled

Wastewater Facility

Preventive 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 offset the amount of power purchased for operations. Table 4.7 provides a breakdown of preventive and corrective maintenance activities at the Main Plant and Tertiary Plant. Maintenance and repair activities are ongoing, with highlights of recent activities including:

- Primary # 4 - three broken paddles removed and replaced, drive chain adjusted, all pads replaced
- Main Plant Thickener # 2, sludge pump #2 –removed and rebuilt
- T-Plant Daft # 3 - center shaft back flow assembly installed by plant maintenance mechanic
- Main Plant Primary # 1 - annual preventive maintenance completed

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Environmental Control

Operational Activities

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

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 on 2500 Navy Drive is certified under the California State Water Resources Control Board (CA_SWRCB) 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, two chemists, and three laboratory technicians (one currently vacant). A laboratory technician was promoted to the microbiologist.

The Delta Water Treatment Plant Laboratory located on 11373 N. Lower Sacramento Road in Lodi is certified under the CA_SWRCB ELAP Certificate # 2988 in the Field of Testing 101: Microbiology of Drinking Water

The staff consists of the water plant chief operator, laboratory supervisor, a microbiologist, and water operators.

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 March 2016. Results of the testing are shown in Tables 6.2, 6.3, and 6.4. Toxicity was found in *Ceriodaphnia dubia*. Accelerated Monitoring has been initiated as of the week of April 10, 2016 and the last set of samples will be collected week of May 23, 2016.

The next quarterly monitoring is scheduled for May 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 < 0.51 mg/L, the monthly maximum was 0.53 mg/L.

Drinking Water Sampling and Analysis

Routine domestic water quality for finished water and raw water wells was completed. One sample has reported presence for Total Coliform and/or E.coli indicating that the regulatory limits have been met.

Laboratory Operations

The lab analyzed 763 samples for 2,323 analyses. Contract labs analyzed 57 samples for 76 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 157 samples for NPDES Permit compliance, 201 samples for process control, and 405 samples for drinking water compliance.

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

Engineering

Operational Activities

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 nonpotable 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 27 development reviews received and 22 completed and returned during April. 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:

- Environmental Impact Report – Tra Vigne Development Project
- Improvement Plan
 1. Tam O'Shanter & Castle Oaks
 2. Weber Cul-De-Sac
- Land Development Permit – Bear Creek Veterinary Hospital
- Master Plan – Tra Vigne
- Pre-application - 804 N Hunter Street
- Request for Utility Service – Morada Rehabilitation Center
- Stormwater Quality Control Plan
 1. BMW Shell Building Addition
 2. Dutch Bros. Coffee

3. Extra Space Storage
 4. St Marks Plaza
 5. Stockton Extra Space Storage
 6. The Palms at Morada Lane
 7. University of Pacific Student Housing Project Upper Division
 8. Weston Ranch Commercial Center – Dollar Tree
- Tentative Map
 1. Arco Trinity Parkway
 2. Mercedes Benz Dealership
 - Use Permit
 1. Grand View Village
 2. H & B Recycling – 1020 Church Street
 3. Interstate Trucking – 2110 S. Sinclair
 - Utility Verification
 1. 14 Mile Pump Station
 2. Along North Monroe
 3. Davis Road
 4. NW Corner of Navy Drive and Stockton Street
 5. San Joaquin County Street Resurfacing City Farms
 6. SE Corner of South Airport Way and 9th Street

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 (CIEMP) EIR (M12019)

Robertson Bryan, Inc. is in the process of including Nitrate permit requirements into the environmental impact report. The preparation of the EIR is temporarily on hold pending procurement efforts for the Design Build Firm to perform the work contained in the CIEMP.

Request for Qualifications (RFQs) were issued for Progressive Design-Build Services for the Regional Wastewater Control Facility Project on January 20, 2015. This was the first step in the procurement process leading to a contract in 2016 for the design and construction of projects identified in the 2011 Capital Improvement and Energy Management Plan. Statements of Qualifications were received on March 5, 2015; request for Proposals was issued on May 8, 2015 to four firms who subsequently

submitted proposals on July 23, 2015. The preferred Firm has been selected and negotiations regarding the contract and scope are currently in process.

Water Well 25 & 26 Engine Conversion (M14020)

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.

Crown and Pershing Avenues Sewer Crossing at the Calaveras River (M13005)

The project is in the design phase. Additional flow data is scheduled to be collected on the existing line to properly size the siphon. The environmental documents are still in a draft state. Construction for the project is anticipated for late spring/early summer 2017.

Highway 99 at Farmington Fresh Sewer Replacement (M14034)

The project is in the design phase. Final plans and specifications are being reviewed, while the applications for encroachment permits are being drafted. Construction for the project is anticipated for late summer to fall 2016.

2014 Sanitary Sewer Maintenance Hole Rehabilitation Project (M15004)

The original contract items are complete. A contract change order to repair 15 additional maintenance holes is in process.

Eighth Street Stormwater Pump Station (M14019) and Weston Ranch Stormwater Pump Station (M13014)

These two projects began construction with the Notice to Proceed issued on April 4. The completion for both projects are scheduled in July 2016.

Rehabilitation/Replacement of Distributor Arms - Biotower No. 4 (M14027)

The project was advertised on March 18, 2016, and the pre-bid conference was held on March 30, 2016, with seven prospective bidders in attendance. Three sealed bids were received and publicly opened by the City Clerk on April 14. The award of the contract is scheduled for June 2016. The project completion is anticipated in late fall of this year.

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

The project is being redesigned to eliminate safety hazard and for ease of future maintenance. A contract change order (CCO) for the redesign will need a council approval as it exceeds its administrative CCO authority. The anticipated bid opening and construction are in fall 2016 and early spring 2017, respectively.

Rehabilitate Charter Way & Walnut Plant (M16002) and Charter Way Subway Storm Drain Pump Stations (M16001)

Both projects are in design phase, which will be done in-house with the exception of electrical. The purchase orders for the electrical work are in the process. The funds for the construction phase will be budgeted in FY 17/16.

SCADA Master Plan – Outfall Controls Improvements (Task 8.5 - M14010)

The final plans and specifications are being reviewed for the anticipated bid opening in June 2016.

Stormwater

Operational Activities

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 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
- 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.

- Weston Ranch Storm Station - fabricated two new discharge flapper arms and installed them on submersible pump # 7
- Royal Oaks Storm Station - fabricated a locking bar across the wet well grating for station security
- Eighth Street Storm Station - installed a new power terminal block at the junction box on our submersible pump #1
- Legion Park Storm Station - # 4 pump in for repairs

Permit Compliance

Staff continues to participate in stakeholder meetings hosted by RWQCB staff on the development and shift in permit structure to a Central Valley Region-wide Stormwater NPDES Permit. It is anticipated that RWQCB staff will release an “administrative draft” of the new permit by late spring for public review and comment. RWQCB staff is targeting Board adoption of the new permit summer 2016. The City’s “interim” permit adopted by the RWQCB on April 17, 2015, will remain in effect until the new permit is adopted and effective.

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 three Verbal Warnings, three Correction Orders, and two Notices to Clean and three Notice of Violation. The Regional Water Quality Control Board One received one referral by City of Stockton during this period.

Inspections of industrial, commercial facilities and residential complaints and field observation resulted in Three Administrative Citations. One inspection was forwarded during this period to The Regional Water Quality Control Board.

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

Administration

Operational Activities

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 condition, zero vehicle accidents reported, and three work-related injuries.

A total of 251 safety-training hours were 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 198 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)
- Senior Environmental Control Officer (active recruitment)
- Senior Plant Operator/Water (pre-employment process)
- Senior Plant Operator/Wastewater (active recruitment)
- Electrical Technician II (pre-employment process)
- Plant Maintenance Mechanic (pre-employment process)
- Collection Systems Operator (pre-employment process)
- Plant Maintenance Machinist (active recruitment)

Positions Filled / Department Transfer

- Collection Systems Operator

Resignations / Separations / Retirements

- None

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 April 29. There were no deficiencies identified.

The City of Stockton attended a Variance hearing at the San Joaquin Valley Air Pollution Control District on April 6, to apply for a wider O2 emissions range on the cogeneration engines.

The San Joaquin Valley Air Pollution Control District Semi-Annual Report of Required Monitoring was completed on April 13.

The City of Stockton conducted Source testing on Cogeneration engine #3 on April 14 and 18, for the San Joaquin Valley Air Pollution Control District. This test is conducted every two years.

The Department of Energy, Energy Information Administration report EIR-923 was completed on April 14.

The San Joaquin County Environmental Health Department Risk Management Program/California Accidental Release Prevention Program Inspection was conducted on April 20.

Facility Tours

There were no tours of the RWCF and Tertiary Plant.

There was a University of Pacific Bird Safari conducted by David Yee on April 4 for 14 students. Two bird watchers toured the Wetlands on April 12.

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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</i>
	<i>New</i>	<i>Open</i>	<i>Closed</i>	<i>Completed</i>
Complaints				
Broken Sprinklers / Irrigation Leaks/ Other Leaks	2	0	2	73
Over-irrigation / Water Run-off	11	0	11	173
Watering during Restricted Hours	0	0	0	45
Watering on a Restricted Day	15	0	15	878
Invalid/Unable to Verify	0	0	0	21
Other Conservation Calls	5	0	5	47
Totals	33	0	33	1,237
Pool Filling or Drain and Refill	15	0	15	72
Totals	48	0	48	1,309

Table 1.2 – Water Conservation Outreach

Description	Type	Date(s)	Impressions
Stockton.watersavingplants.com	Website	April	312
Utility Bill Insert	Print Media	April	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
TOTAL	0	0
FY-to-Date	0	0

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
TOTAL	0	0

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
TOTAL	0	0
FY-to-Date	0	0
Program-to-Date (since February 2010)	394	364.167

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Water Treatment, Production, and Distribution

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	121	124	1	0
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	
NORTH WELL SYSTEM									
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							
SOUTH WELL SYSTEM									
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							
INTERCONNECTIONS									
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	65.77	40.33			1,192.22
	So. Sys	60.17	0.52	4.38	27.36	1.25	0.00	20.26	2.63	1.67	4.62			122.86
	DWTP	654.19	526.24	532.05	412.57	169.81	123.07	251.21	272.99	342.63	483.40			3,768.16
	SEWD WP	5.69	5.41	6.13	5.76	5.26	4.50	3.95	3.80	4.50	4.63			49.63
	SEWD/North	9.70	43.50	31.57	12.82	189.45	226.84	38.95	6.17	0.00	0.00			559.00
	SEWD/South	57.13	168.45	159.15	113.33	109.50	99.63	74.61	87.61	102.66	113.67			1,085.74
	Total	975.45	965.92	905.74	797.16	553.17	499.76	453.88	462.65	517.23	646.65	0.00	0.00	6,777.61

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
	Total	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	9,539.82

	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

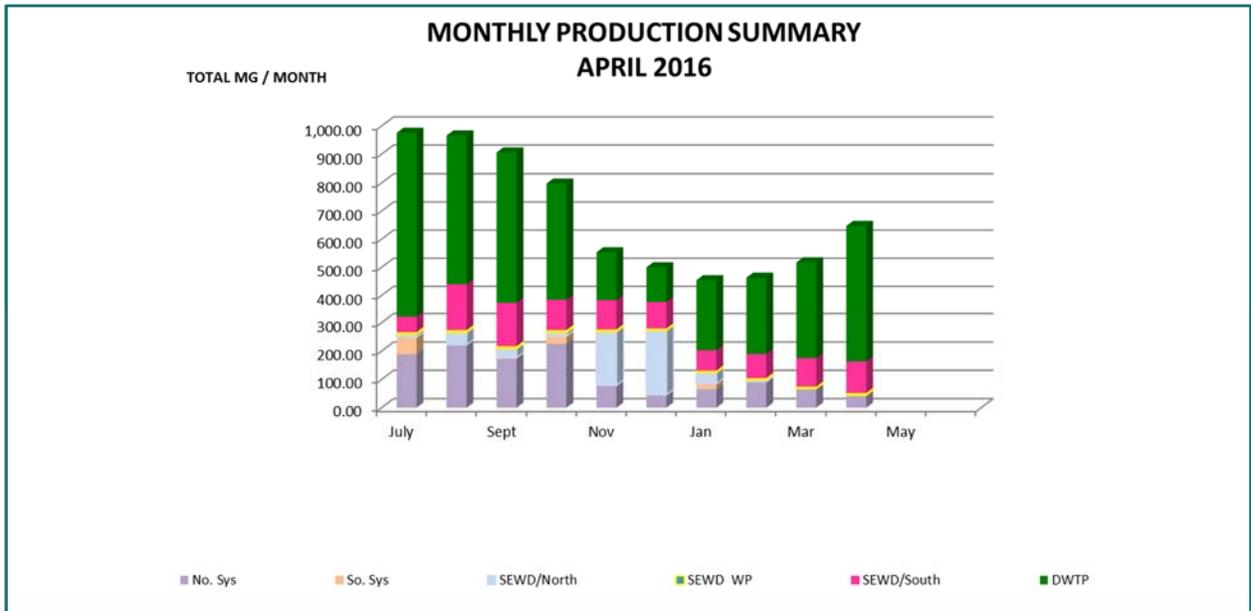
Table 2.3A – DWTP Influent by Water Source (in Million Gallons)

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	50.06	4.35			2,271.87
Mokelumne River/WID	214.01	-	0.00	-	0.01	-	-	-	282.46	476.34			972.83
Total Influent (DWTP)	536.43	426.26	423.81	312.42	123.85	85.92	251.86	270.94	332.52	480.69	-	-	3,244.70

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

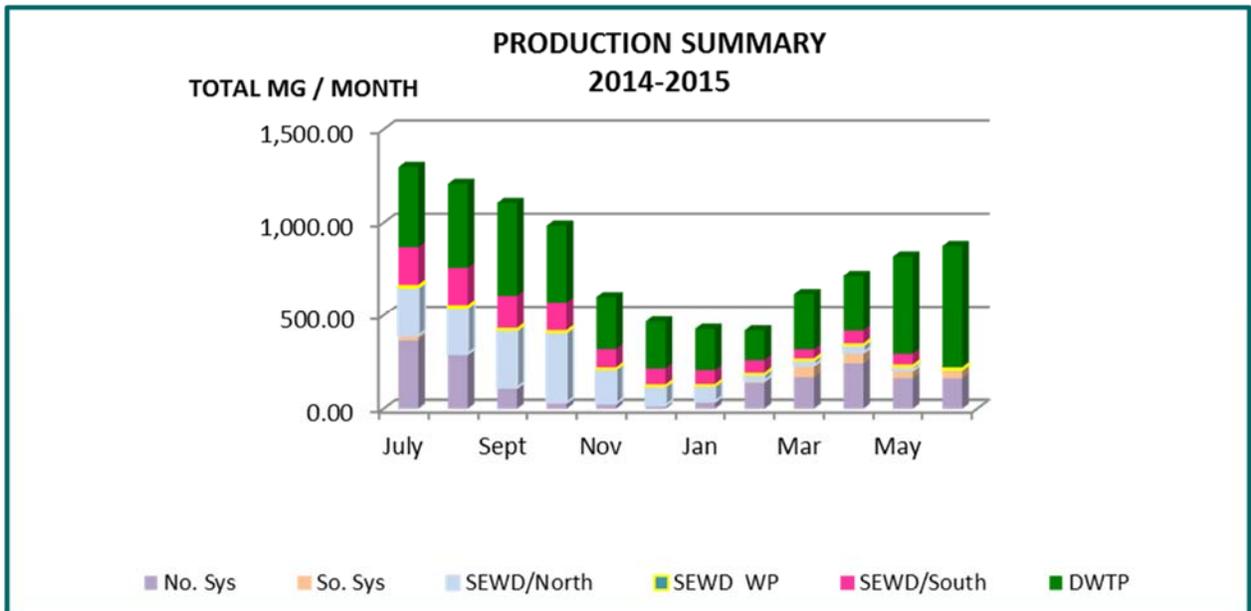


Table 2.4 – City of Stockton Water Systems –Production Summaries

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	65.77	40.33			1,192.22
City South System Wells	60.17	0.52	4.38	27.36	1.25	-	20.26	2.63	1.67	4.62			122.86
Delta Water Treatment Plant	654.19	526.24	532.05	412.57	169.81	123.07	251.21	272.99	342.63	483.40			3,768.16
MLK Diamond & Filbert Interconnect (SEWD) City Walnut System	5.69	5.41	6.13	5.76	5.26	4.50	3.95	3.80	4.50	4.63			49.63
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	102.66	113.67			1,085.74
Total City System	975.45	965.92	905.74	797.16	553.17	499.76	453.88	462.65	517.23	646.65	-	-	6,777.61
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	517.23	646.65	-	-	6,777.61

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
City System - Metered Consumption													
Single Family Residential	521.55	501.91	451.90	443.00	353.84	273.55	243.38	221.63	251.29	N/A			3,262.05
Multi-family Residential	85.38	84.67	79.40	75.87	68.86	60.02	66.64	50.85	62.57	N/A			634.26
Commercial/Institutional	135.22	130.94	113.43	118.68	91.54	71.09	69.02	51.57	63.12	N/A			844.61
Irrigation	93.91	94.08	91.70	89.91	51.98	16.38	8.76	6.10	10.89	N/A			463.71
Non-potable Water	-	-	-	-	-	-	-	-	-	-			-
Const/Hydrant/Jumpers/Load Counts	0.75	1.61	0.38	0.20	0.17	0.32	0.58	0.38	0.58	0.39			5.36
Other (Industrial)	23.48	19.91	20.89	20.52	17.30	19.25	17.89	17.70	20.87	N/A			177.81
Subtotal Metered	860.29	833.12	757.70	748.18	583.69	440.61	406.27	348.23	409.32	0.39	-	-	5,387.80
City System - Unmetered Consumption													-
Main Line / Service Repair Losses	0.76	0.21	1.30	0.22	0.38	0.36	0.60	0.46	0.54	0.04			4.87
Commercial/Residential Construction Usage	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01			0.10
City Trucks/Parks Trucks/Street Sweepers	0.06	0.07	0.09	0.06	0.06	0.08	0.09	0.10	0.22	0.19			1.02
Hydrant / Blow-off Flushing	0.01	0.02	0.04	0.01	0.02	0.02	0.03	0.04	0.02	0.03			0.24
System Flushing	0.14	0.10	0.01	0.30	0.80	0.03	0.34	0.10	0.01	0.27			2.10
City Fire Dept. Fire Flow	0.01	0.01	0.01	0.01	0.01	0.04	0.02	0.01	0.01	0.01			0.14
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			0.10
Subtotal Unmetered	1.00	0.43	1.47	0.62	1.29	0.55	1.10	0.73	0.82	0.56	-	-	8.57
Total City System	861.29	833.55	759.17	748.80	584.98	441.16	407.37	348.96	410.14	0.95	-	-	5,396.37
Water Wheeled & Wholesaled (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	28.08	34.94			370.95
Total Wheeled & Wholesaled	66.78	43.97	51.77	46.03	27.18	24.38	24.91	22.91	28.08	34.94	-	-	370.95

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	497.00	418.00			7,509.00
South Wells													-
Chlorine Gas, Lbs.	206.00	40.00	131.00	141.00	62.00	59.00	191.00	92.00	48.00	70.00			1,040.00
Delta Water Treatment Plant													-
Ammonia Gal	-	-	-	-	-	-	736.02	887.48	1,032.18				
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	8,923.44	11,837.63			136,566.93
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	893.46	1,252.19			31,675.37
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	5,480.73	4,082.96			67,172.77
Corrosion Inhibitor, Gal	29.61	-	-	1,059.62	406.08	8.46	63.45	1,104.99	1,312.44	1,712.52			5,697.17
Citric Acid, Gal.	105.60	92.00	112.00	88.00	41.60	107.20	88.00	94.05	183.34	93.08			1,004.87
Sulfuric Acid, Gal.	164.00	139.20	120.00	72.00	32.00	28.80	60.80	57.51	66.53	67.24			808.08
Sodium Bisulfite, Gal.	17.60	17.60	26.40	19.20	8.00	21.60	37.60	31.41	30.92	109.86			320.19

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
North													
N. Well Electricity, KWH	255,136	368,313	233,644	304,697	108,343	86,136	306,533	134,408	99,553	63,098			1,959,861
N. Reservoir Electricity, KWH	69,080	73,300	75,080	65,800	46,440	60,120	52,880	47,440	48,860	49,320			588,320
Electricity, KWH	324,216	295,013	308,724	370,497	154,783	146,256	359,413	181,848	148,413	112,418			2,401,581
Natural Gas, 1,000 Ft	-	316	7	-	1	-	-	294	110	-			728
South													
S. Well Electricity, KWH	74,176	3,147	6,789	35,154	3,684	2,525	26,820	5,858	4,827	6,723			169,703
S. Reservoir Electricity, KWH	13,600	15,360	15,360	9,600	8,640	14,880	14,240	9,280	9,600	8,160			118,720
S. Cl2 Booster Station, KWH	30	34	38	51	108	141	112	94	94	68			770
Electricity, KWH	87,806	18,541	22,187	44,805	12,332	17,546	41,172	15,232	14,521	14,951			289,093
Natural Gas, 1,000 Ft	-	-	-	-	-	-	-	-	-	-			-
Delta Water Treat Plant													
Electricity Used, KWH (Intake)	114,240	154,880	174,880	114,880		14,720	68,320	65,920	45,440	10,560			763,840
Electricity Used, KWH (Treatment Plant)	712,000	552,000	518,000	410,000	346,000	112,000	318,000	380,000	366,000	526,000			4,240,000
Electricity Generated, KWH (Solar)	20,030	16,290	10,950	10,690	8,120	5,820	5,610	10,060	7,060	9,400			104,030
DWTP Total Electricity Used													-
OUTAGES	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	YTD
North Wells													
Electricity	-	-	-	-	-	-	-	-	-	-			-
Natural Gas	-	-	-	-	-	-	-	-	-	-			-
South Wells													
Electricity	-	-	-	-	-	-	-	-	-	-			-
Natural Gas	-	-	-	-	-	-	-	-	-	-			-
Description of Outages													

2014-2015– Utility Consumption Summary

CONSUMPTION	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	YTD
North													
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	-	-	-	-	-	-	-	-	-	-	-	-	-
South													
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	-	-	-	-	-	-	-	-	-	-	-	-	-
Delta Water Treat Plant													
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
OUTAGES													
North Wells													
Electricity	-	-	-	-	-	-	-	-	-	-	-	-	-
Natural Gas	-	-	-	-	-	-	-	-	-	-	-	-	-
South Wells													
Electricity	-	-	-	-	-	-	-	-	-	-	-	-	-
Natural Gas	-	-	-	-	-	-	-	-	-	-	-	-	-
Description of Outages													

Table 2.8 – Hydrant Maintenance

	Current Month	Fiscal YTD
Hydrant Repairs		
Leaks	8	90
Vehicle Accidents	5	44
Routine Maintenance Repair	4	71
Painted Hydrant	1	2
Installed New/Replaced Hydrant	2	18
Assist Fire Department	0	0
Emergency Fire Response	0	1
Fire Flow Test	0	4
Removed Hydrant/Spool	0	0
Relocated Hydrant	0	0
Gate Valve Maintenance	0	0

Table 2.9 – Valve Maintenance Program

	Current Month	Fiscal YTD	# of Valves in System
Air Relief Valves Inspected	12	104	198
Distribution Valves Located	0	6	10,491
Distribution Valves Exercised	6	268	10,491
Distribution Valves Installed (New)	0	1	10,491
Blow-off Valves Flushed	1	2	1,282
Valves Repaired (all types)	0	12	11,971

Table 2.10 – Service Connections

<i>Meters Applied to Routes- Current Month</i>	
Meters Applied to Routes - Fiscal Year-to-Date	209
Total Number of Service Meters in Water System (Active + Inactive)	48,881

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

Meter Size (in inches)	Residential	Industrial	Commercial / Institutional	Irrigation
5/8	1,798	0	14	15
3/4	25,265	14	213	74
1	18,453	0	243	149
1½	258	0	233	161
2	257	2	605	434
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
Totals	46,055	20	1,450	880

Table 2.12 – Water Quality Inquiry Summary

Inquiry	Quantity	Follow-up Action
Taste / Odor	3	<ul style="list-style-type: none"> -1- Complaint of chlorine taste in water. Operator did not notice any taste or odor upon arrival. Operator spoke to customer. Chlorine residual after water filter on customer side 0.10. Customer agreed water taste was better upon operator arrival. -1- Complaint of water tasting and smelling like chemicals (not chlorine) at kitchen and bathroom faucets only. Operator observed no taste or odor upon arrival. Operator flushed outside hose bibs. -1- Complaint of water at kitchen tap smelling like "sewer". Operator observed no odor in water at outside hose bib or kitchen tap water. Operator did observe odor coming from kitchen drain and trap. Customer to clean traps.
Color	3	<ul style="list-style-type: none"> -1- Complaint of dark water at times in the bathroom and kitchen sinks. Operator advised servicing water softener system. -1- Complaint of color in water. Operator observed no color upon arrival in water. Customer to flush inside faucets. -1- Complaints of dark slime coming from taps. Upon arrival customer, said problem had cleared up. Operator helped customer clean aerators.
Turbidity		(none)
Suspended Solids		(none)
Pressure	3	<ul style="list-style-type: none"> -2- Complaints of low water pressure. Operator found house valves half closed. -1- Complaint of low pressure. Customer to check hot water heater.
Sediment		(none)
Air		(none)
Sand		(none)
Miscellaneous	3	<ul style="list-style-type: none"> -1- Complaint of water killing fish. Operators tested mono-chloramine, free ammonia, Cl2 and ph. pH in fish tank at 1.99. Explained water disinfection processes to customer and low pH value in fish tank. -1- Complaint of water killing fish. Water Treatment Plant CPO spoke to customer addressing his concerns. -1- Complaint of water being toxic to fish. Operators tested customer's water for pH, chloramines, Cl2 and free ammonia. All tests were normal.
Inquiry		(none)

Table 2.13 – Customer Services Summary

Customer Service Operations	Current Month
Residential Meter Routes	90
Commercial Meter Routes	13
Estimated Meter Reads by Utility Billing	0
Total Meters Read	48,881
Number of Check Reads (All Routes)	282
Number of Service Turn-on/Turn-offs	787

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		2821
Due for Testing to Date			1087
Tested to Date			891
Outstanding			196
Installed/Added		13	29
Reactivated		0	0
Inactivated from Cos System		3	9

Table 2.15 – Cross Connection Control Program Surveys

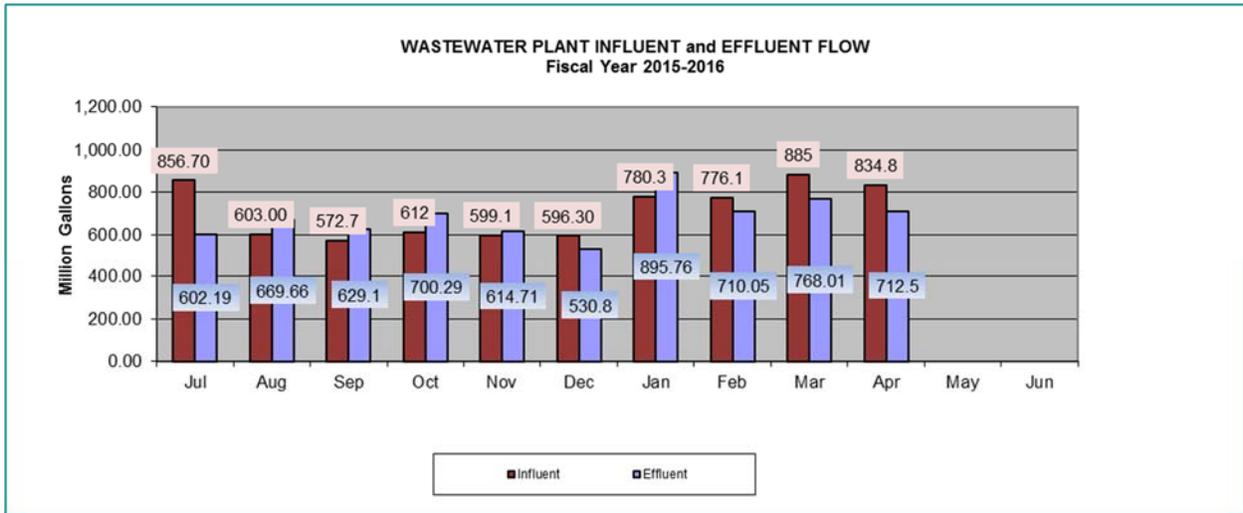
	<i>Surveyed</i>	<i>Surveyed Fiscal Year-to-Date</i>
Customer Connections Surveyed	7	67

Wastewater Treatment

Table 3.1 – Summary of Influent and Effluent Parameters

Influent Parameters	Actual Month Average	
Flow, MGD	27.8	
cBOD, mg/L	370	
TSS, mg/L	310	
Effluent Parameters	Actual Month Average	NPDES Permit Limit Monthly Average
Flow, MGD	23.8	55 Average Dry Weather Flow
cBOD, mg/L	<2.6	10
cBOD Removal, %	>99.3	85
TSS, mg/L	<2.5	10
TSS Removal, %	> 99.3	85
Ammonia, mg/L	<0.5	1.2 AMEL/4.0 MDEL - April 1 - October 31 2.3 AMEL/9.9 MDEL - November 1 – November 30 2.4 AMEL/9.6 MDEL - December 1 – March 31
Turbidity (NTU)	1.6 0.6- 3.9	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- 8.4	6.5 – 8.5
DO, mg/L (Min. Daily Average)	8.6	6.0 01-Dec. thru 31- Aug.
Ponds, Free Board, feet (Daily Average)	2.09- 2.86	>= 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

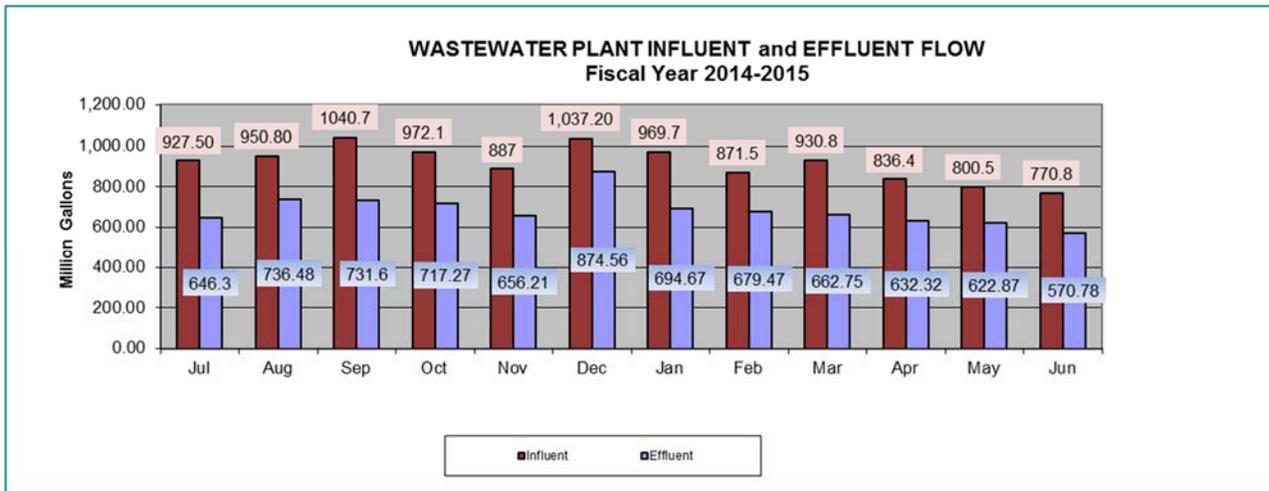
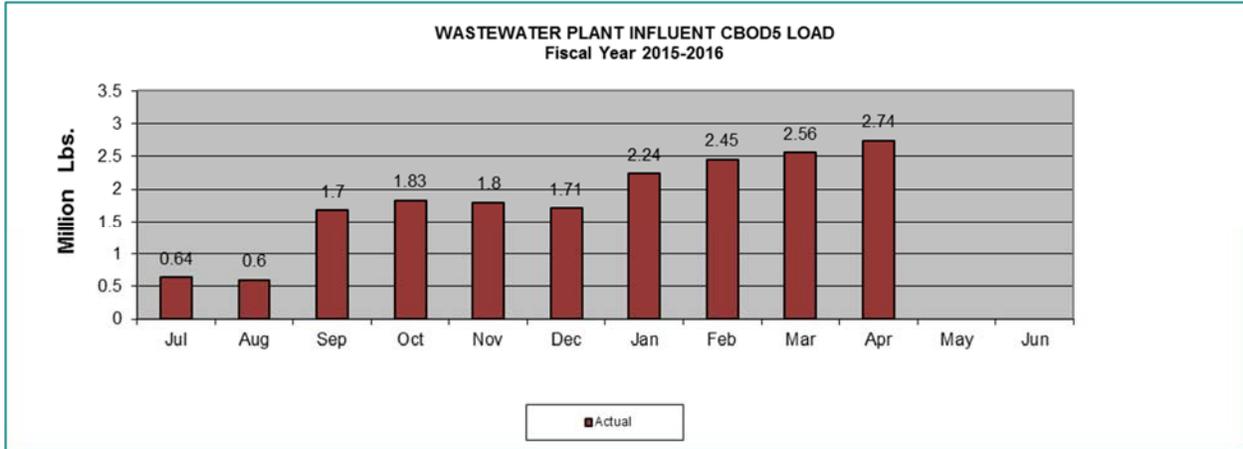


Figure 3.B – Wastewater Plant Influent CBOD5 Load



Wastewater Plant Influent CBOD5 Load Comparison Year 2014-2015

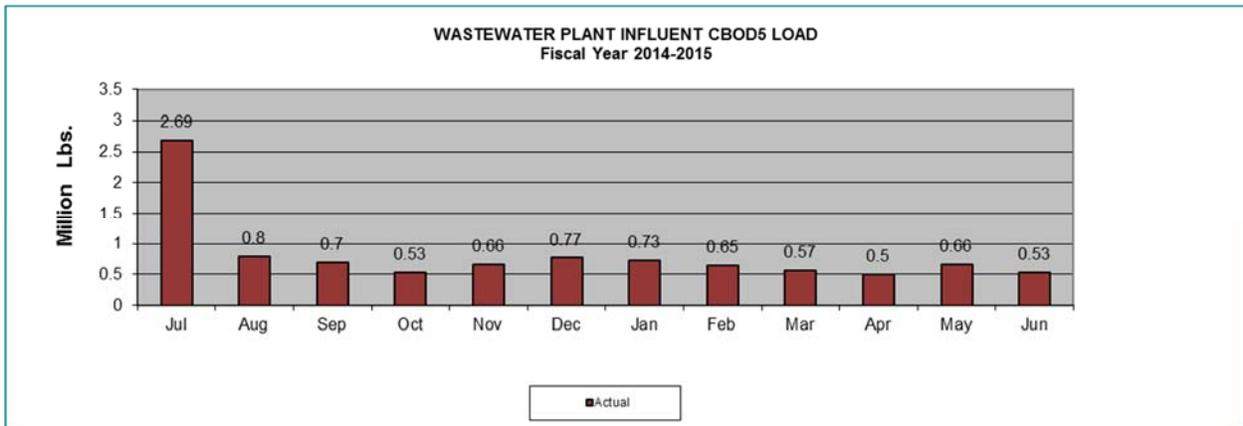
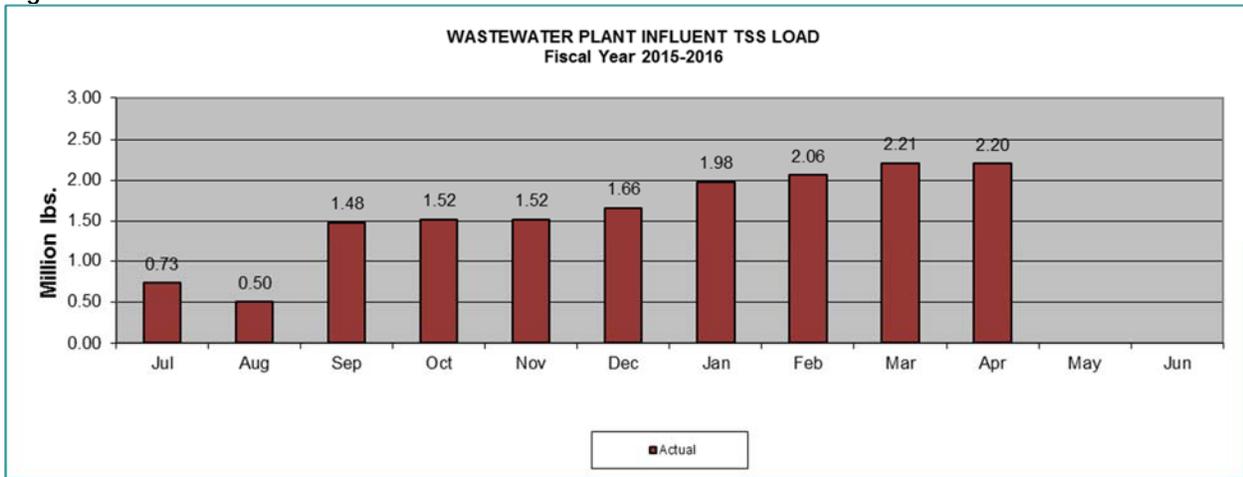


Figure 3.C – Wastewater Plant Influent TSS Load



Wastewater Plant Influent TSS Load Comparison Year 2014-2015

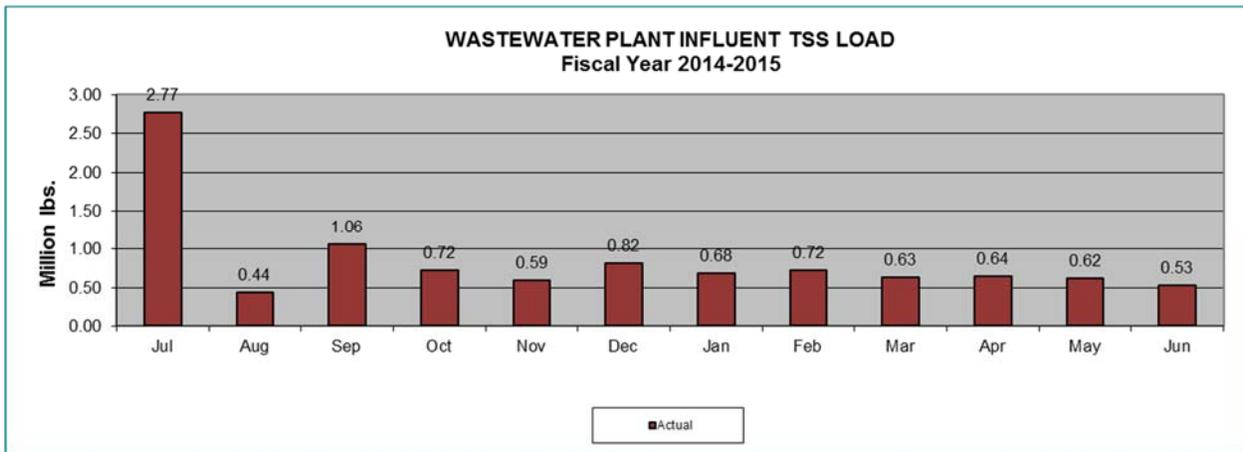
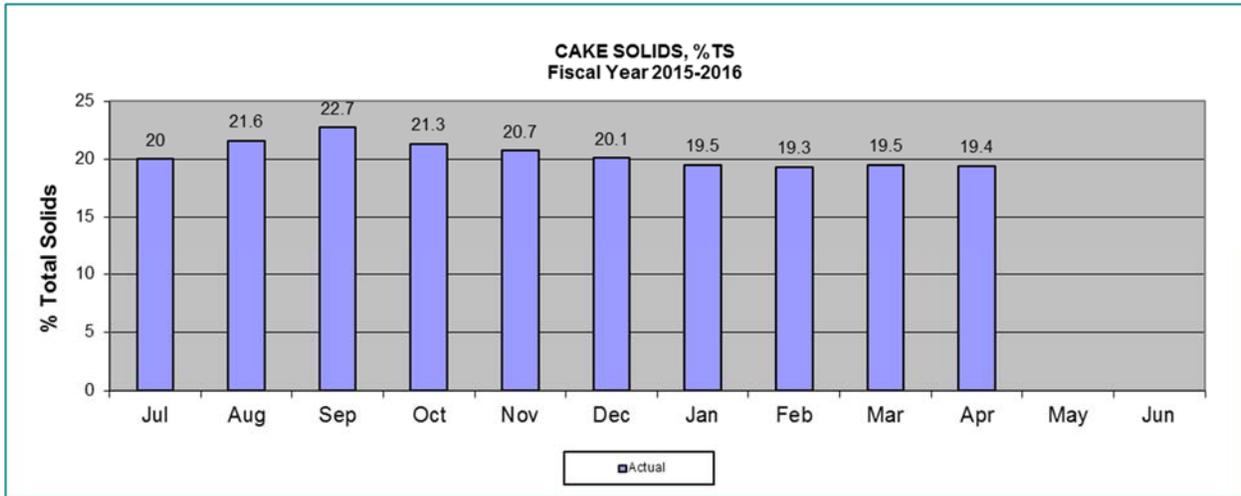


Table 3.2 – Residuals and Chemical Management Summary for Biosolids

Digester Biosolids	Current Month	Fiscal Year-to-Date
Total Feed, gals.	3,444,800	40,820,874
Total Gas Production, CuFt.	12,458,800	156,933,500
Sludge Lagoon, gals.	0	0
Ferric Chloride, gal.	5,180	66,134
Ferric Chloride (EPT), lbs.	0	40,959
Dewatered Biosolids		
Total Feed, gals.	4,057,775	34,273,887
Polymer, lbs.	77,106	714,057
Cake, Wet Tons	1,499	15,786
Biosolids Truck Loads Hauled	61	717

Figure 3.D – Cake Solids



Cake Solids Comparison Year 2014-2015

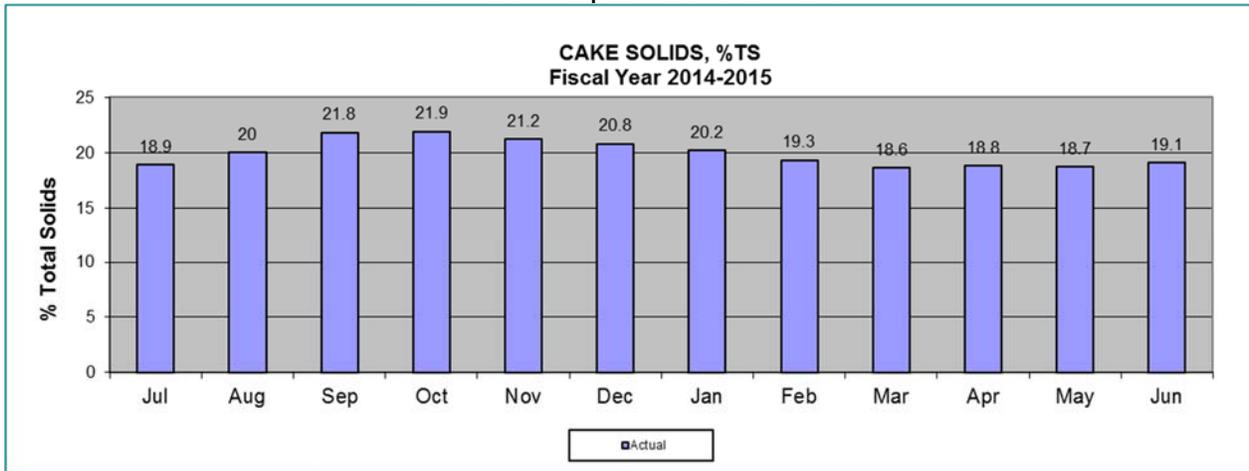


Table 3.3 – Summary of Tertiary Pond Operating Levels

Tertiary Pond	Start Freeboard	End Freeboard	Reserve Capacity (Million Gallons)
Pond #1 (190 ac.)	2.1	2.24	138.68
Pond #2 (135 ac.)	3.0	2.90	118.12
Pond #3 (125 ac.)	2.7	2.58	113.49
		Total	370.29
		Total Reserve Days	15.55

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	43,532	42,942			423,537
Sulfur Dioxide, lbs.	31,820	38,058	33,200	33,600	33,200	972,228	36,200	30,100	36,200	32,400			1,277,006
Caustic Soda, gals	0	0	0	350	2,113	0	3,828	919	2,188	315			9,713
Aqueous Ammonia, gals.	4,322	5,609	5,870	5,691	1,501	486	2,854	3,278	4,104	3,566			37,281
Polymer, lbs	226,517	415,617	430,019	454,602	317,845	317,026	470,551	408,160	456,239	498,113			3,994,689

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
Electricity		
Main Facility Total Usage, KW	1,609,731	15,129,336
Tertiary Facility Total Usage, KW	630,966	5,670,161
Total Facility Usage, KW	2,240,697	
PG&E, Purchased KW	1,645,178	15,148,086
Co-Generation Production, KW	595,519	5,651,411
Total Facility Prod/Purch KW	2,240,697	16,007,243
Natural Gas		
Co-Generation Fuel, Therms	90,510	723,750
Building Fuel, Therms	4.30	99.29
Methane Gas, Digester Production, CuFt.	12,458,800	142,926,000
Methane Gas, Digester Production, Therms	73,914	849,434
Water		
Wastewater Facilities Total Usage, gals.	2,552,218	16,392,755

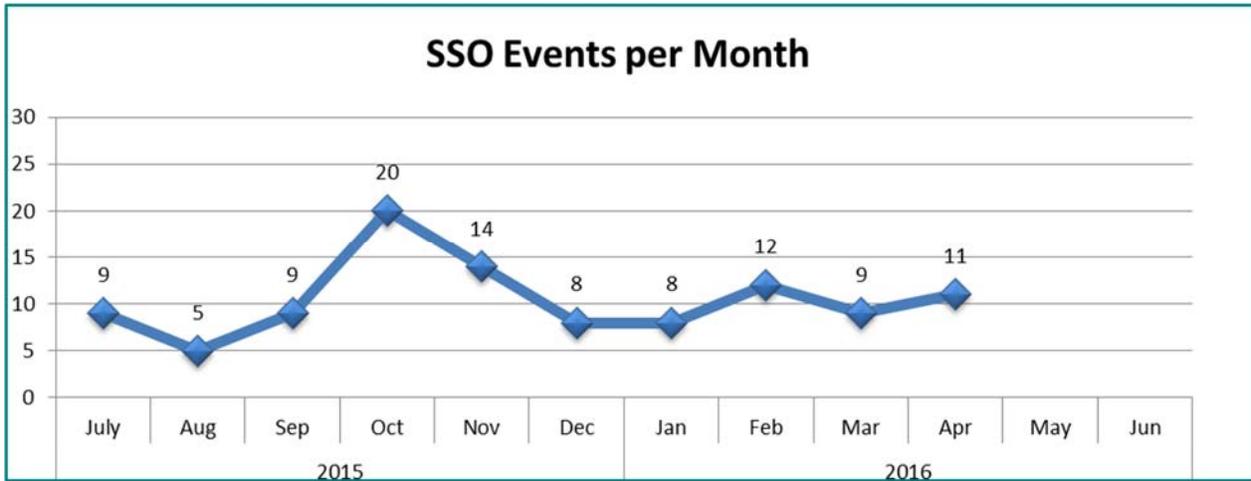
Wastewater Collection Systems

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
CATEGORY 1								
4/20/2016	Merrywood Way	1500	0	1500	Pipe Structure Offset	Calaveras River	Lateral	4"
CATEGORY 2								
4/27/2016	E. Marsh St	7573	7573	0	Operator Error	Storm Drain	Main	18"
CATEGORY 3								
4/2/2016	Carpenter Rd.	8	8	0	Debris	Storm Drain	Lateral	4"
4/2/2016	Gunton Wy.	2	2	0	Roots	Gutter	Lateral	4"
4/3/2016	E. Lorretta Ave.	7	7	0	Roots	Gutter	Lateral	4"
4/5/2016	S. Harrison St.	1	1	0	Debris	Storm Drain	Lateral	4"
4/5/2016	W. Rose St.	5	5	0	Grease	Gutter	Lateral	4"
4/11/2016	Waterloo Rd.	18	18	0	Debris	Gutter	Lateral	4"
4/12/2016	E. Poplar St.	15	15	0	Roots	Gutter	Lateral	4"
4/25/2016	Bowie Way	25	25	0	Roots	Gutter	Lateral	4"
4/28/2016	Lucerne Ave.	20	20	0	Roots	Gutter	Lateral	4"
PRIVATE								
4/7/2016	Champagne	3	3	0	Debris	Gutter	Lateral	4"
4/13/2016	N. Wilson Way	3	3	0	Inside Trouble	Gutter	Lateral	4"
4/20/2016	Brook Falls Ci.	10	10	0	Roots	Storm Drain	Lateral	4"
4/20/2016	Porter Ave.	55	55	0	Debris	Gutter	Lateral	4"
4/21/2016	Malvern Ct.	15	15	0	Debris	Gutter	Lateral	4"
4/21/2016	Richland Way	4	4	0	Inside Trouble	Gutter	Lateral	4"
4/21/2016	DaVinci Dr.	19	19	0	Debris	Gutter	Lateral	4"
4/26/2016	Pyrenees Ave.	21	21	0	Debris	Gutter	Lateral	4"
4/28/2016	Merrywood Ln.	9	9	0	Debris	Gutter	Lateral	4"
4/29/2016	N. Airport Way	15	15	0	Debris	Gutter	Lateral	4"
4/29/2016	Long Barn Way	29	29	0	Debris	Gutter	Lateral	4"
4/30/2016	Orvis Dr.	4	4	0	Debris	Gutter	Lateral	4"

Total Public SSO Events	11	Total Gallons	9,174
Total Private Spills	12	Total Gallons	187
Total Public & Private Spill Events	23	Total Gallons	9,361

Figure 4.A – Public Sanitary Sewer Overflow Events



Public Sanitary Sewer Overflow Events - Comparison Year 2014-2015

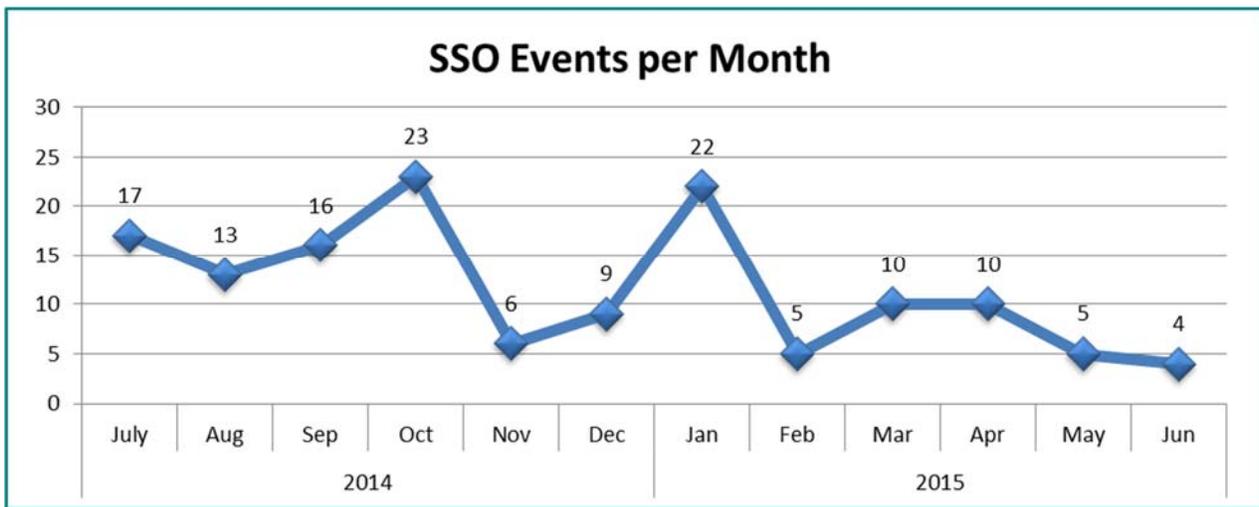
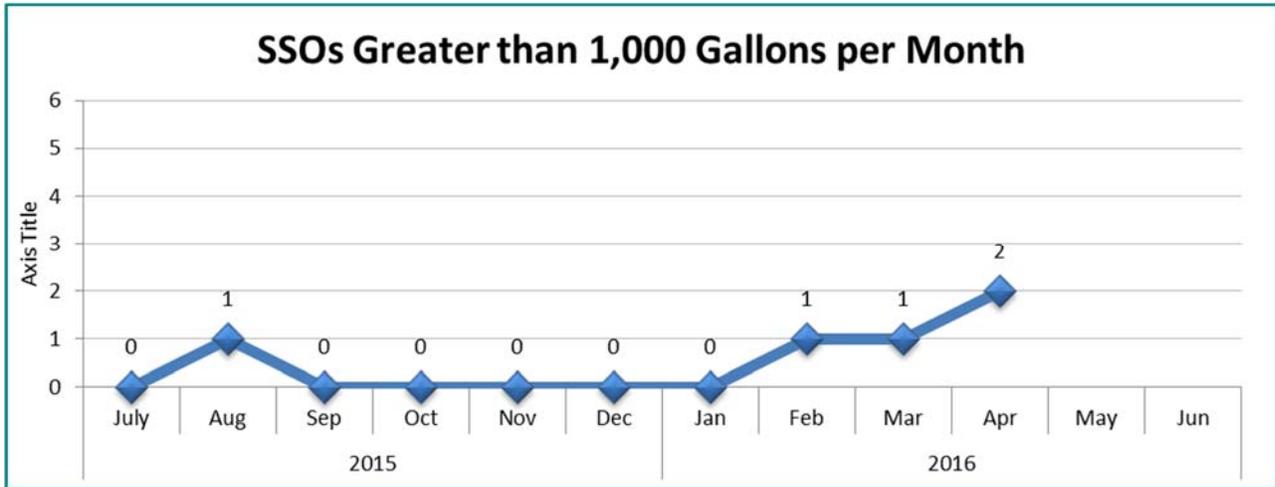


Figure 4.B – Public SSOs Greater than 1,000 gallons – Events



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

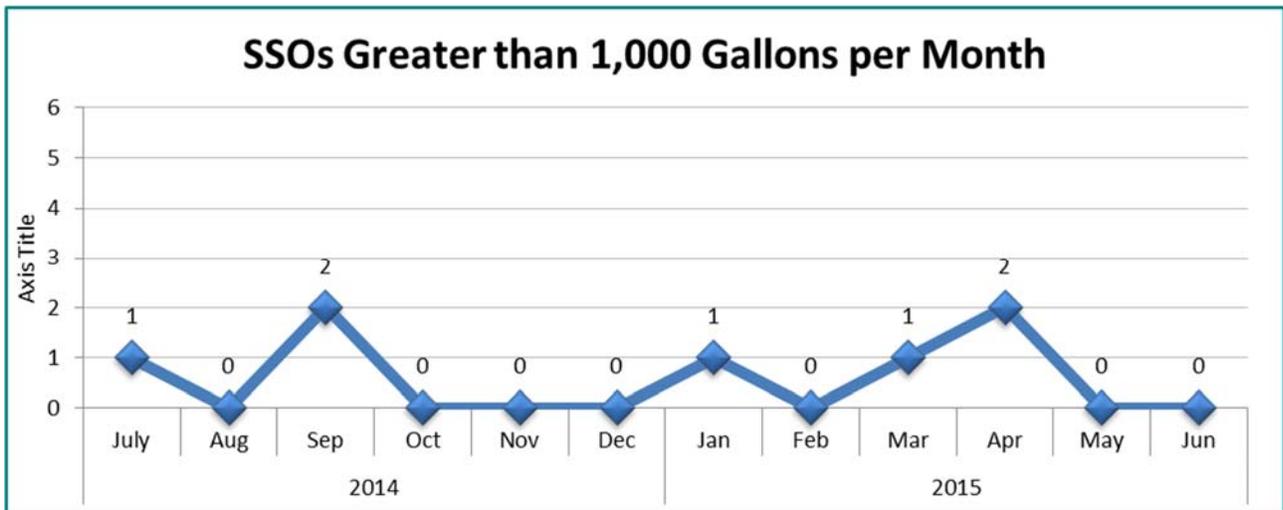
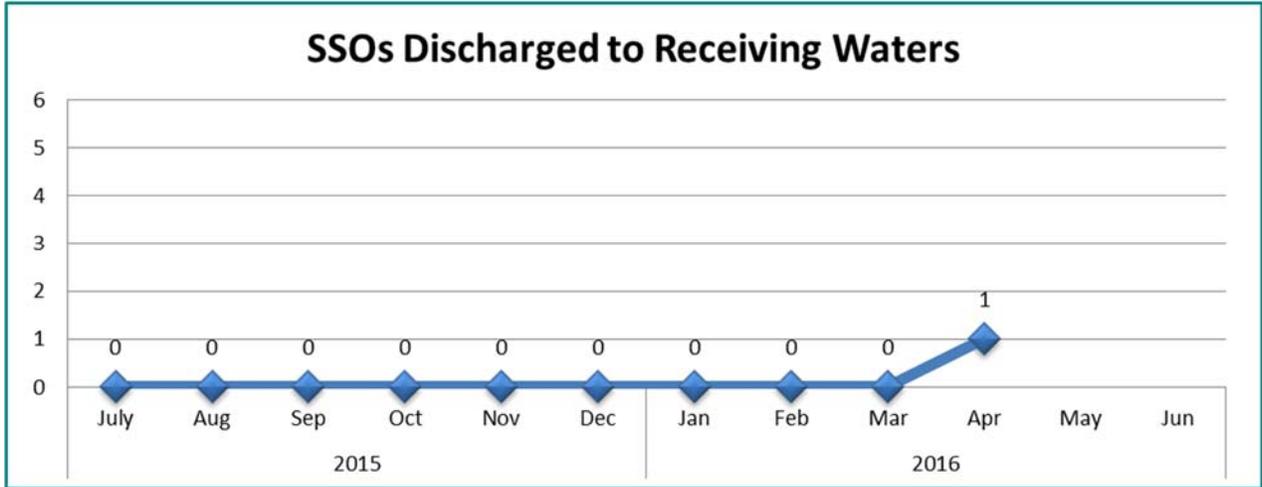


Figure 4.C – Public Sanitary Sewer Overflows Discharged to Receiving Water



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

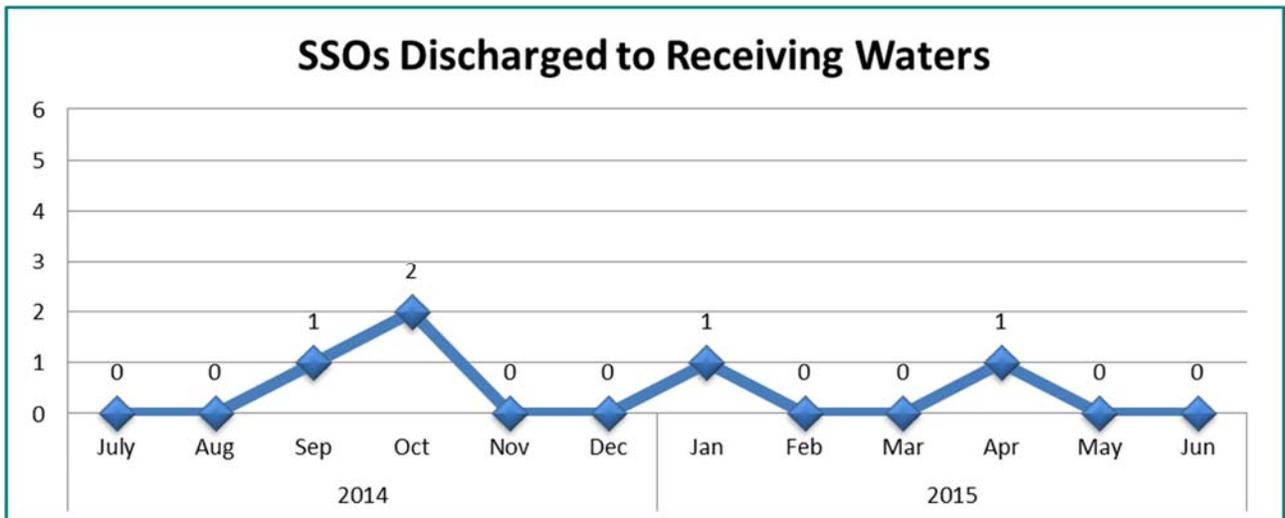


Table 4.2 – Sewer Maintenance Activity Summary

	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	FISCAL YTD
Repairs – Sewer													
# of Lateral Repairs	7	12	2	1	7	14	5	11	11	19			89
Lateral Repairs, Linear Feet	71	111	16	5	32	20	103	74	94	77			603
# of Main Line Repairs	13	6	3	3	3	3	0	4	14	14			63
Main Line Repairs, Linear Feet	63	21	27	15	14	18	0	23	75	87			343
Maintenance Hole Repair/New	1	2	6	10	9	2	2	2	2	7			43
Sewer Taps	1	0	0	0	0	0	0	0	0	0			1
Maintenance – Sewer													
# of Main Line Segments Jetted	612	620	465	495	257	394	363	506	554	561			4,827
Main Line Linear Feet Jetted	185,379	185,771	138,293	159,933	88,760	132,467	127,096	159,544	143,615	164,396			1,485,254
# of Main Line Segments Rodded	57	16	17	33	17	19	12	17	24	1			213
Main Line Linear Feet Rodded	17,098	1,519	7,339	10,910	6,418	5,064	4,016	4,753	8,366	225			65,708
Laterals Foamed	106	144	165	33	85	128	99	160	138	92			1,150
Laterals Foamed, Linear Feet	3,180	4,320	4,950	990	2,550	3,840	2,940	4,800	4,140	2,760			34,470

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

Comparison Year 2014-2015 – Sewer Maintenance Activity Summary

	JUL	AUG	SEP	OCT	NOV	86DEC	JAN	FEB	MAR	APR	MAY	JUN	FISCAL YTD
Repairs – Sewer													
# 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
Maintenance – Sewer													
# 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	321	354			3,646
USA Requests	828	720	839	662	451	812	881	630	848	1,023			7,694
TV Sanitary Line Segment Inspections	61	121	144	81	22	50	73	86	62	85			785
TV Sanitary Line Segment Inspections, Linear Feet	11,946	17,249	18,227	13,217	5,423	12,047	13,574	14,580	6,808	11,538			124,609
TV Sanitary Lateral Inspections	32	258	92	24	107	88	39	116	59	33			837
TV Sanitary Lateral Inspections, Linear Feet	872	8,230	3,982	729	1,697	1,799	875	2,851	1,570	1,027			23,632

(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	1	4			11
Operations / Grit Hauling - Tonnage	6.63	0	0	0	6.73	20.86	0	11.69	7.08	67.31			120.30
Sanitary Lines / Pump Stations - # of Loads	8	0	6	11	5	10	9	0	14	12			75
Sanitary Lines / Pump Stations - Tonnage	126.19	0	73.01	128.00	65.48	86.12	138.83	0	156.44	105.17			879.24
Construction Hauling – # of Loads	17	0	15	5	6	5	9	6	3	2			68
Construction Hauling – Tonnage	224.97	0	195.59	55.24	67.62	60.32	96.98	70.58	13.72	17.28			802.30
Total Loads	26	0	21	16	12	18	18	7	18	18			154
Total Tonnage	357.79	0	268.60	183.24	139.83	167.30	235.81	82.27	177.24	189.76			1,801.84

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
Total Loads	8	0	7	3	0	2	11	11	6	9	0	0	57
Total Tonnage	106.21	0	109.86	44.67	0	30.09	120.28	149.83	78.80	116.26	0	0	756.00

Table 4.5 – Graffiti Removal

<i>Name / Location of Pump Stations Painted</i>
NONE

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>
Sanitary Pumping Facilities				
Pump Station Mechanical	99	67.7	32.3	23.0
Pump Station Electrical	11	81.8	18.2	70.6

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>
RWCF Treatment Plant				
Main Plant	N/A	N/A	260	*
Tertiary Plant	N/A	N/A	256	*
RWCF Plant Maintenance				
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 yet 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
Pretreatment Program												
Industrial Inspections	66	46	47	52	44	34	35	43	42	36		
Industrial Sampling	54	43	37	31	26	28	32	31	33	34		
Discharge Permits (new) *	0	0	0	1	2	0	0	1	0	0		
Discharge Permits (renewal) **	1	3	0	0	0	1	0	0	1	1		
Industrial Flow, MG	148.91	158.98	132.07	89.74	68.45	65.34	82.45	73	86.64			
Industrial BOD, lbs.	1,061,940	1,229,740	782,150	551,210	555,450	440,340	696,450	578,230	511,490			
Industrial TSS, lbs.	462,480	742,990	430,130	160,590	102,090	89,380	175,370	216,290	111,140			
Industrial Revenue	\$ 587,542	\$ 621,344	\$ 564,162	\$ 521,795	\$ 504,939	\$ 506,690	\$ 558,483	\$510,424	\$520,585			
Pretreatment Enforcement Actions***	8	7	10	7	6	7	9	6	7	8		
Waste Hauler Program												
Trucked-in Waste Loads	227	239	247	225	224	240	231	240	248			
Trucked-in Waste Gallons	691,998	722,084	742,659	665,496	676,153	703,905	692,313	715,513	739,717			
Trucked-in Waste Revenue	\$ 24,225	\$ 25,443	\$ 26,259	\$ 23,813	\$ 23,840	\$ 25,343	\$ 24,537	\$ 25,456	\$ 26,308			
Stormwater Program												
Hazardous Materials Spills ****	0	0	0	0	1	0	0	0	2	0		
Stormwater Complaints *****	1	3	3	2	3	0	0	4	4	3		
Stormwater Enforcement	2	1	1	0	2	0	0	1	3	0		
FOG Program												
FOG Initial Inspections	74	62	73	42	3	7	95	105	100	80		
FOG Enforcement Actions	37	23	0	0	0	0	0	0	0	0		
FOG Follow-up Inspections	41	42	71	44	17	17	23	31	37	31		

<p>* Discharge Permits (New) - NONE</p> <p>** Discharge Permits (Renewal) – One (1) 1 – Significant Industrial User Permit</p> <p>*** Pretreatment Enforcement Actions – Eight (8) 3/2016 – NOV/CO: Exceeded Monthly Flow Limit 3/2016 – NOV/CO: Exceeded TSS Capacity 3/2016 – NOV/CO: Missed Samples 3/2016 – NOV/CO/FINE: Missed quarterly samples, Fine \$1,000 3/2016 – NOV/CO: Exceeded Monthly Flow Limit 3/8/2016 – NOV/CO/FINE: Exceeded TBA Concentration. Limit, Fine \$1,000 3/10/2016 – NOV/CO/FINE: Exceeded HEM & TPH Limits, Fine \$2,000 3/15/2016 – NOV/CO: Exceeded TTO Limit</p>	<p>**** Hazardous Materials Spills – NONE</p> <p>***** Stormwater Complaints – Three (3)</p> <p>***** Stormwater Enforcement Actions – NONE</p>
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Comparison Year 2014-2015 –Operational Activities Summary

Activity/Indicator	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Pretreatment Program												
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
Waste Hauler Program												
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	
Stormwater Program												
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
FOG Program												
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
03-07-16	100	PERL
04-03-16	100	PERL

Chronic Toxicity

Table 6.2 – Algae (*Selenastrum capricornutum*)

Sample Date	NOEC	TUc (100/NOEC)	Comments
03-07-16	100%	1.0	Lab water control

Table 6.3 – Ceriodaphnia (*C. dubia*)

Sample Date	Survival		Reproduction	
	NOEC	TUc (100/NOEC)	NOEC	TUc (100/NOEL)
03-07-16 ¹	<100%	> 1.0	<100%	> 1.0

¹ March 2016: Toxicity to survival and reproduction initiates accelerated monitoring.

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

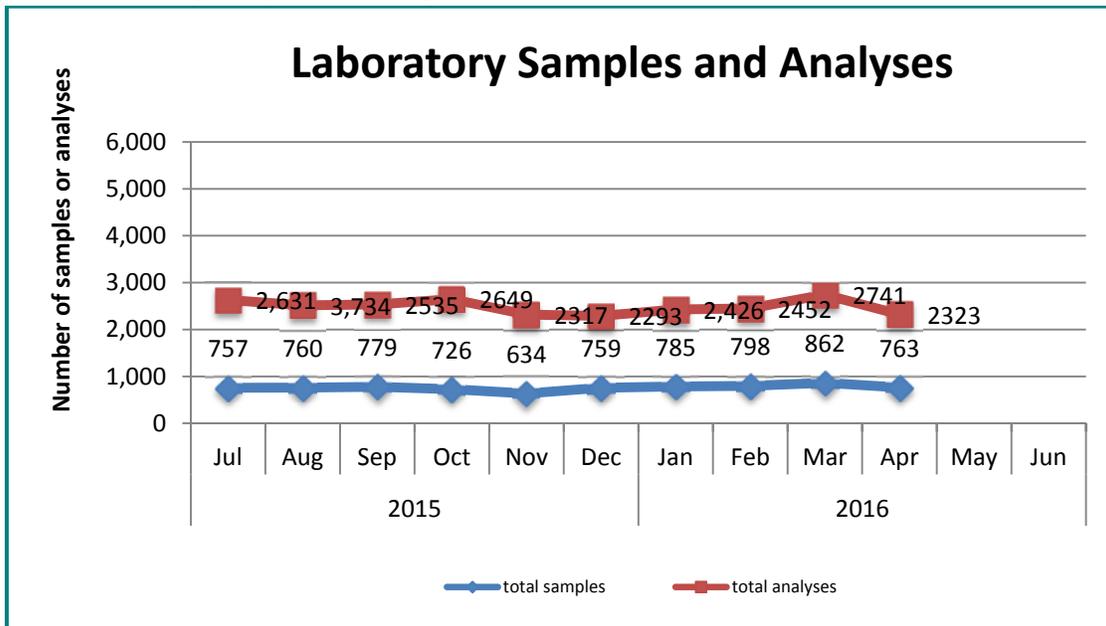
Sample Date	Survival		Growth	
	NOEC	TUc (100/NOEC)	NOEC	TUc (100/NOEL)
03-07-16	100%	1.0	100%	1.0

Testing continues quarterly.

Table 6.5 – Effluent Ammonia-N Summary

EFF-001 (Final Effluent)	Regulatory NH3-N, mg/L	Process Control NH3-N, mg/L
Monthly Minimum	<0.5	0.30
Monthly Maximum	0.70	0.53
Monthly Average	<0.51	0.36
Number of samples	16	30

Figure 6.A – Laboratory Samples and Analyses



Laboratory Samples and Analyses – Comparison Year 2014-2015

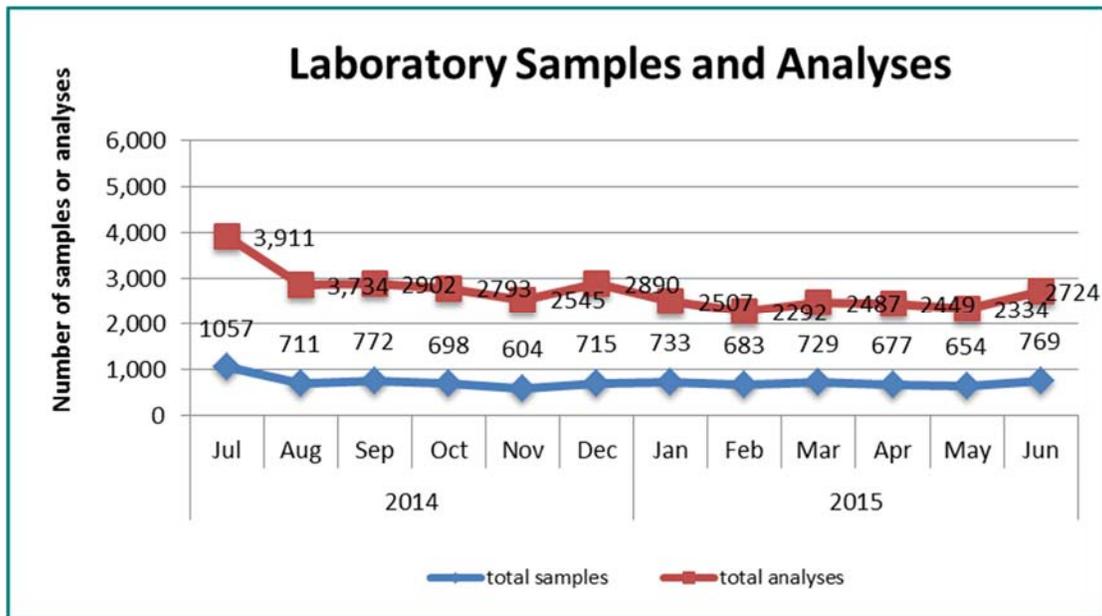
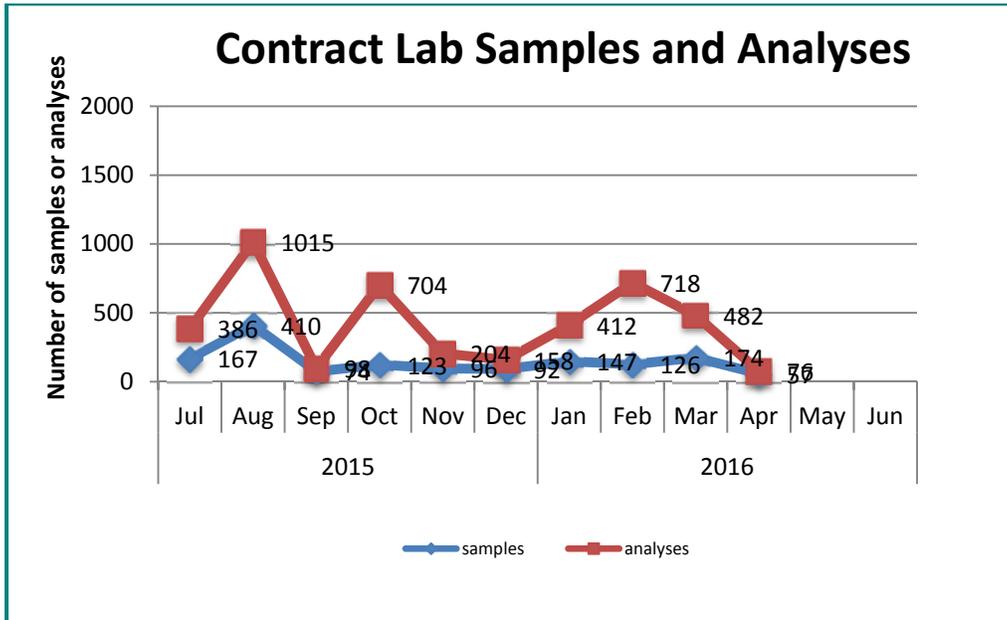


Figure 6.B – Contract Laboratory Samples and Analyses



Contract Laboratory Samples and Analyses – Comparison Year 2014-2015

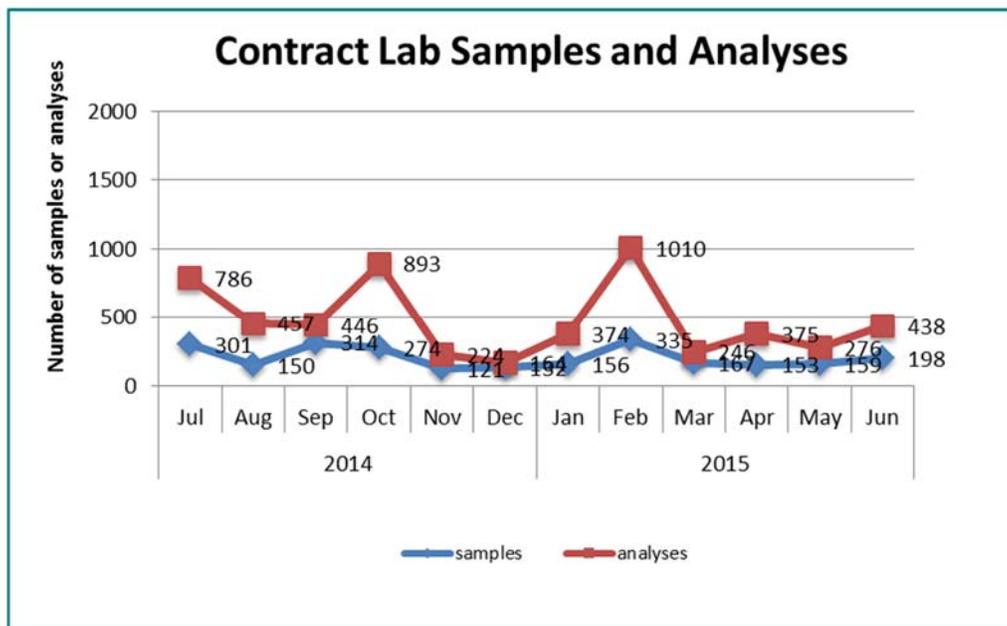
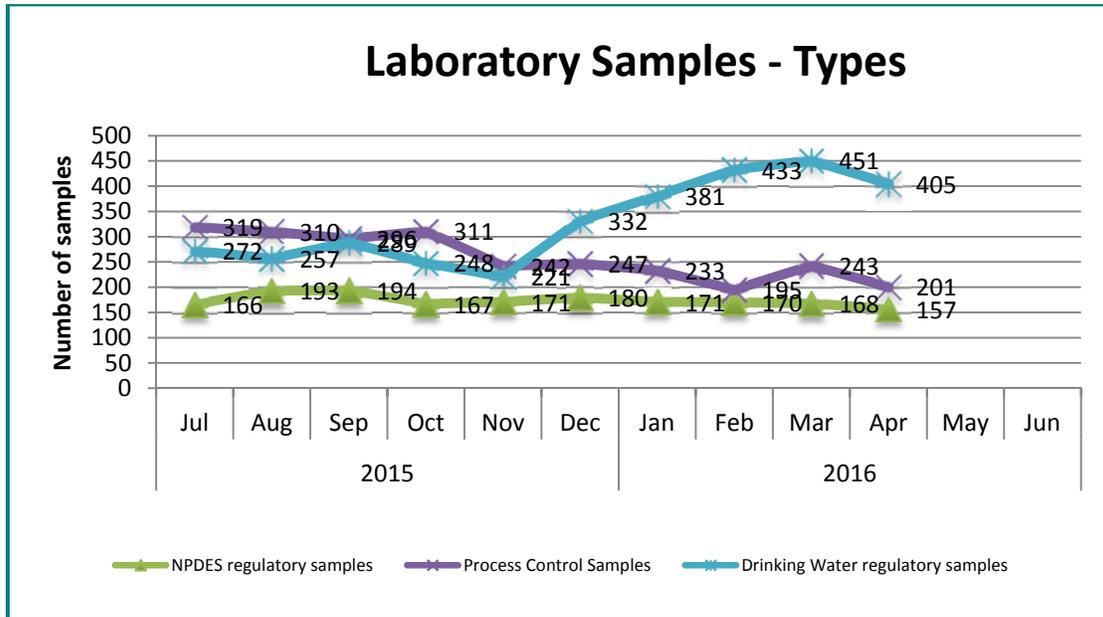
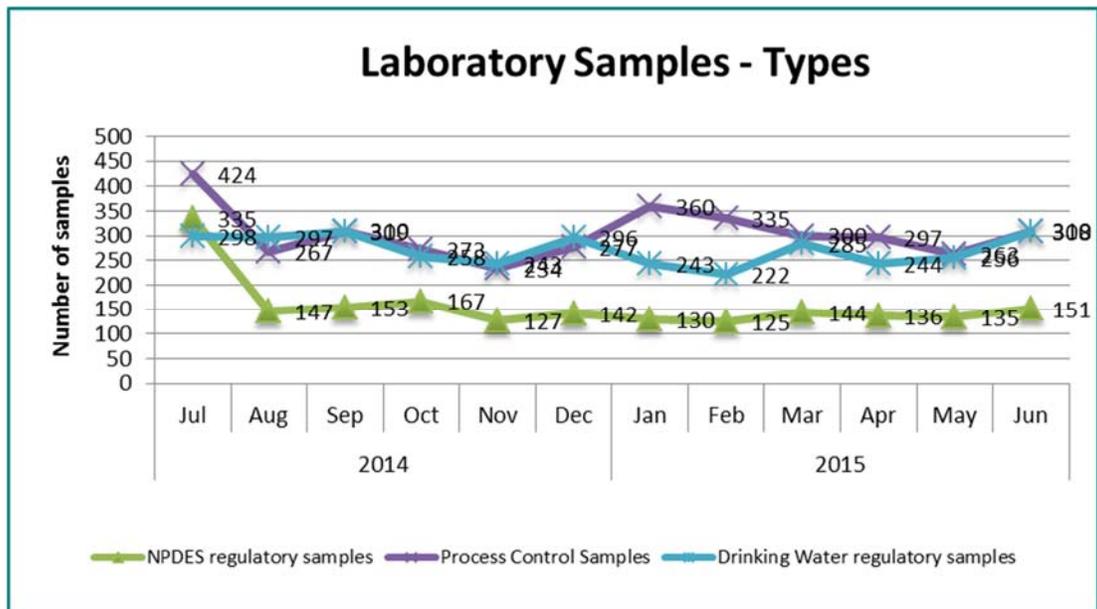


Figure 6.C – Laboratory Sample Types



Laboratory Sample Types Comparison Year 2014-2015



Engineering

Figure 7.A – Development Reviews Received and Completed

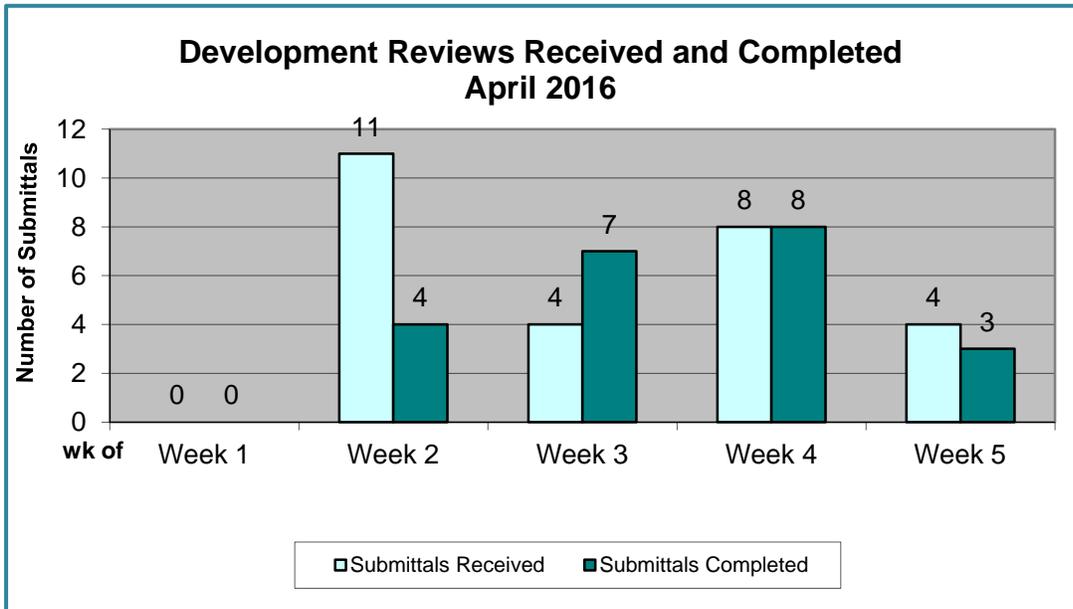
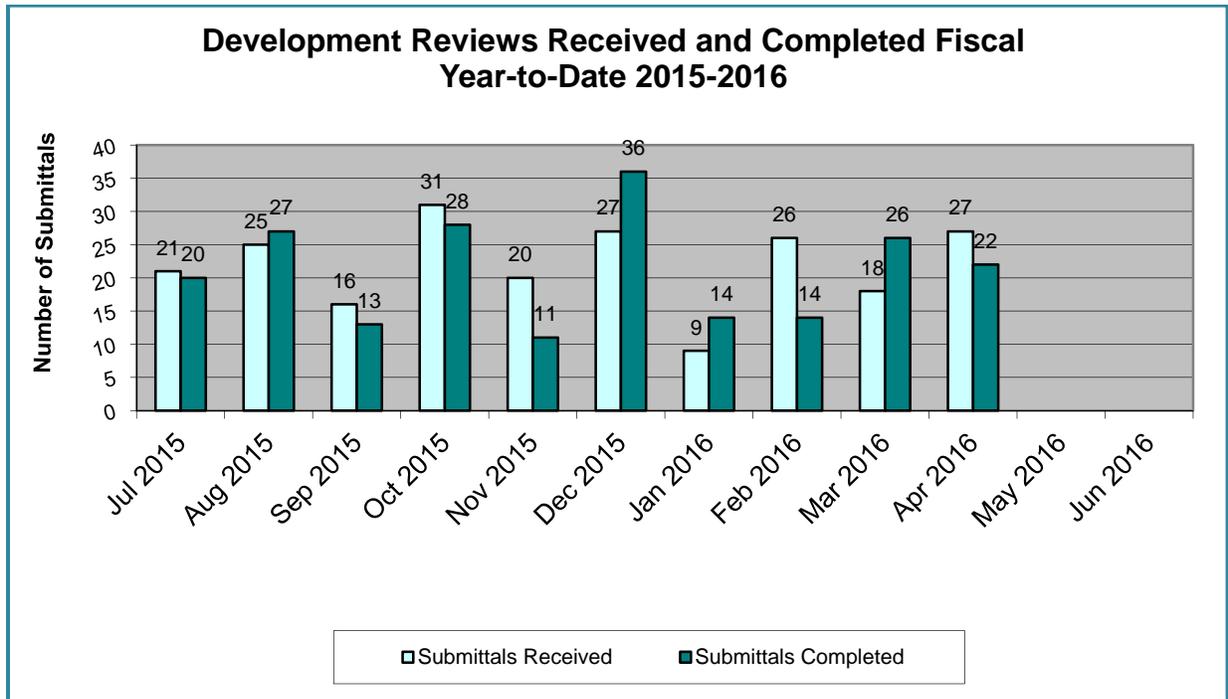


Figure 7.B – Development Reviews Received and Completed Year-to-Date



Development Reviews Received and Completed – Comparison Year 2014-2015

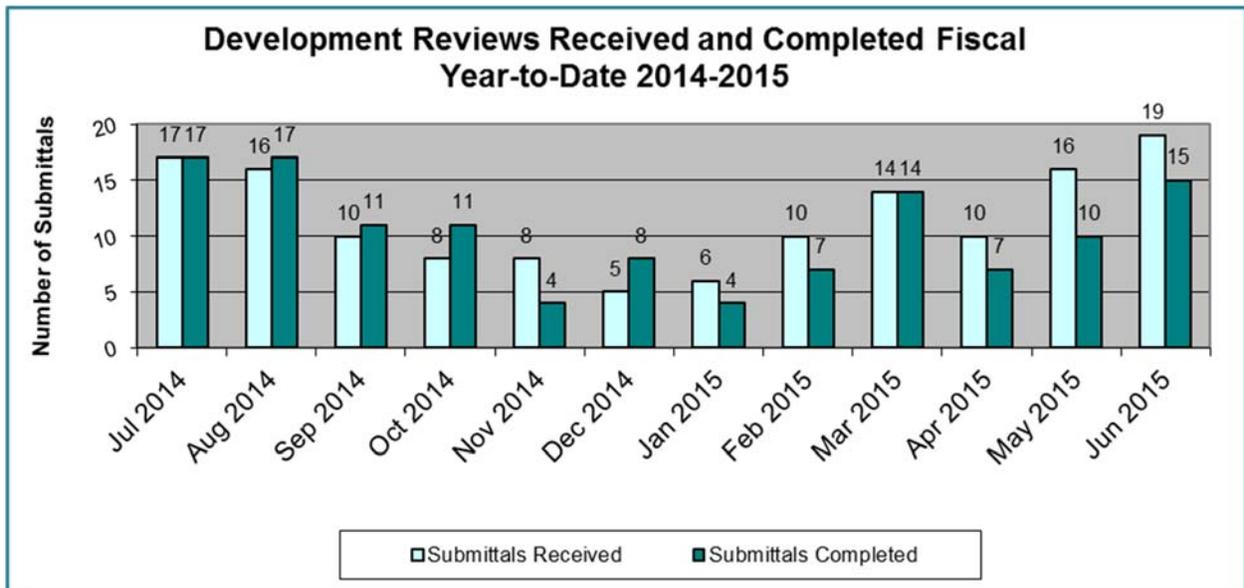


Table 7.1 – Nonpotable, Stormwater, Water, and Wastewater Projects

LEGEND			
Project Type		Phase Of Project	
Nonpotable	Purple		Beginning Planning
Stormwater	Magenta		Planning Completed
Water	Blue		Beginning Design
Wastewater	Green		Ending Design
			Beginning Construction
			Construction Continuing
			Project Completed

Projects	Project Type	Cost	Project Phase
Capital Improvement and Energy Management Plan EIR (M12019)		\$400,000	
Water Well 25 & 26 Engine Conversion (M14020)		\$282,800	
Crown and Pershing Avenues Sewer Crossing at the Calaveras River (M13005)		\$1,999,000	
Highway 99 at Farmington Fresh Sewer Replacement (M14034)		\$238,000	
2014 Sanitary Sewer Maintenance Hole Rehabilitation Project (M15004)		\$5,000,000	
Eighth Street Stormwater Pump Station (M14019) and Weston Ranch Stormwater Pump Station (M13014)		\$208,000	
Rehabilitation/Replacement of Distributor Arms - Biotower No. 4 (M14027)		\$894,700	
Rehabilitate Don Avenue (M13010) and Thornton Road (M13009) Sanitary Pump Stations		\$590,000	
Rehabilitate Charter Wy & Walnut Plant (M16002) and Charter Way Subway (M16001) Storm Drain Pump Stations		\$148,000	
SCADA Master Plan – Outfall Controls Improvements (Task 8.5, - M14010)		\$787,000	

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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
Repairs – Storm													
# of Catch Basin Lateral Repairs/New	1	0	0	0	0	0	0	0	1	0			2
Catch Basin Lateral Repairs/New, Linear Feet	16	0	0	0	0	0	0	0	7	0			23
# of Storm Main Line Repairs	1	0	0	0	0	0	0	3	0	0			4
Storm Main Line Repairs, Linear Feet	3	0	0	0	0	0	0	4	0	0			7
# of Catch Basin Storm Repairs/New	1	2	0	1	0	1	1	0	1	0			7
# of Storm Maintenance-hole Repairs/New	5	1	0	0	0	0	0	1	0	0			7
Storm – Maintenance													
# of Catch Basin Laterals Cleaned	1	28	72	7	16	93	9	5	13	1			245
Catch Basin Laterals Jetted, Linear Feet	25	60	245	278	30	152	0	0	766	50			1,606
# of Catch Basin Laterals Rodded	0	0	0	0	1	1	0	0	6	0			8
Catch Basin Laterals Rodded, Linear Feet	0	0	0	0	35	2	0	0	390	0			427
# of Storm Main Lines Jetted	0	4	0	0	2	1	2	1	5	3			18
Storm Main Lines Jetted, Linear Feet	0	664	0	0	400	380	200	400	1,255	510			3,809
# of Storm Main Lines Rodded	0	0	0	0	0	0	5	0	0	0			5
Storm Main Lines Rodded, Linear Feet	0	0	0	0	0	0	975	0	0	0			975
# of Storm Maintenance-holes Cleaned	0	1	0	0	0	1	1	0	12	1			16
# of Storm Pump Stations Cleaned	2	6	3	6	0	0	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	0	0			13.95
# of Storm Catch Basins Inspected	739	474	239	35	0	3	0	1	3	0			1,494
# of Storm Catch Basins Stenciled	332	257	63	0	0	0	0	0	0	0			652
# of Storm Event Calls	0	0	0	0	174	17	534	3	165	1			894
Storm Event Line Clean-up, Linear Feet	0	0	0	0	55	100	1,659	50	364	75			2,303
TV Storm Line Segment Inspections	1	0	1	0	0	0	1	2	0	2			7
TV Storm Line Segment Inspections, Linear Feet	289	0	460	0	0	0	18	77	0	199			1,043
Spoils Storm Pump Stations / CBs - # of Loads	0	0	0	2	1	0	0	0	0	0			3
Spoils Storm Pump Stations / CBs - Tonnage	0	0	0.00	18.22	14.40	0.00	0	0	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
Repairs – Storm													
# 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
Storm – Maintenance													
# 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	24	24		
Inspections	18	22			20	22	22	24	24	24		
Verbal Warnings	4	8			10	9	11	13	3	8		
Correction Orders	2	6			5	7	9	10	3	4		
Notice to Clean	2	6			7	7	5	7	2	4		
Notice of Violation	1	0			0	0	0	0	3	2		
Admin. Citations	1	0			0	0	0	0	3	0		
Referred to RWQCB	1	0			0	0	0	0	1	1		

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
Pump Station Mechanical												
<i>Corrective Maintenance</i>	11	22	8	8	11	8	21	10	7	40		
% Completed	54.5	50.0	50	37.5	54.5	87.5	10	60.0	42.9	15.0		
% Backlog	45.5	50.0	50	62.5	45.5	12.5	52.4	40.0	57.1	85.0		
<i>Preventive Maintenance</i>												
% Backlog	81.1	41.0	69.2	74.8	76.1	27.8	75.7	50.3	64.2	27.1		
Pump Station Electrical												
<i>Corrective Maintenance</i>	9	15	13	6	12	6	14	9	27	11		
% Completed	100.0	80.0	53.8	66.7	100.0	100.0	71.4	88.9	51.9	54.5		
% Backlog	0.0	20.0	46.2	33.3	0.0	0.0	28.6	11.1	48.1	45.5		
<i>Preventive Maintenance</i>												
% Backlog	75.0	100.0	100	100	0.0	77.3	0.0	52.2	0.0	25.0		

Work Order Summary - Comparison Year 2014-2015

	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
Pump Station Mechanical												
<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
Pump Station Electrical												
<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	1	2
Number of Vehicle Incidents: No Fault of Employee	0	4
Number of Vehicle Incidents: Fault of Employee	0	3

Table 9.2 – Summary of Work-Related Injuries and Illnesses

	<i>Current Month</i>	<i>Calendar Year</i>
Number of Cases	3	11
Number of Cases with Lost Time	3	4
Number of Cases with Work Restrictions	0	4

Table 9.3 – Summary of Safety Training

	<i>Hours Delivered</i>	<i># of Attendees</i>	<i>Total Attendee Hours</i>
Tailgate Sessions			
Slips, Trips & Falls	1	14	14
Safety Committee Review	1	7	7
Hard Hats	1	14	14
Dealing with work Stress	1	6	6
Training			
Audiometric Testing _Hearing Test	1	110	110
CPR, First Aid & AED	6	15	90
New Hire Safety Orientation	2	5	10
TOTAL	13	171	251

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	19	16	3	+2
Financial Services	5	5	0	
Collections	47	46	1	+1
Engineering	14	14	0	+1
Environmental Control	7	6	1	
Laboratory	7	6	1	
Maintenance	43	38	5	
Wastewater Treatment	31	29	2	
Water Treatment/Distribution	27	26	1	-1
Water Resources/Treatment	17	15	2	
Total Staff Count	217	201	16	+4 / -1

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	15.25	17.5		
Financial Services	0	0	0	0	0	0	2.5	3.25	2.5	0		
Collections	465	473.25	518	438	167	220.5	250.25	210.75	297.5	144.25		
Engineering	0	4	9.5	21	6	0	0	0	2.5	3		
Env. Control	32.5	13.5	5	28	29.5	40	9	19.5	81.75	36.75		
Laboratory	10	0	7.5	0	16	8.75	18.5	13.75	8	8.5		
Maintenance	248	352.75	279	574.25	198.5	296.75	796.00	376.25	574.75	234		
WW Treatment	567	754.75	658.5	689.75	959.25	686.25	744.75	760.25	725.50	606		
Stormwater	0	0	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	108.75	81.5		
Water Resources	0	0	7.5	0	0	0	0	0	7.25	7.5		
Water Treatment	359.5	331.50	261.25	368	466.25	347.25	364.75	269.75	227.50	175.5		
TOTALS	1,882.50	2,097.50	1,994.75	2,239.25	1,984.50	1,734.75	2,411.25	1,775.75	2,051.25	1,314.50		

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
TOTALS	1,737.25	2,049.25	2,242.75	2,624	2,236.50	2143.50	2,171.00	2,169.00	2,088.50	2,183.25	2,453.25	1,519.50

Appendix A

Water

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)
31	03-15-16	Quarterly EC/TDS
32	03-15-16	Quarterly EC/TDS
SS2	03-15-16	Quarterly EC/TDS
SS3	03-15-16	Quarterly EC/TDS
3R	03-16-16	Quarterly EC/TDS
10R	03-16-16	Quarterly EC/TDS
21	03-16-16	Quarterly EC/TDS
30	03-16-16	Quarterly EC/TDS
29	03-16-16	Quarterly EC/TDS
20	pending	Gross Alpha
28	pending	Gross Alpha
SS8	pending	Gross Alpha

Exceptions

(none)

Well Status Changes

(none)

Other

(none)

CITY OF STOCKTON MONTHLY SYSTEM OPERATION
APR 2016

30 WELL STA. No.	WELL STATION LOCATION	MONTHLY OPERATIONS				WELL SOUNDING	MONTHLY POWER		GAS POWER		MONTHLY CHEMICALS	
		HR5 OPERATED	PROD. MG	RATE MGD	RATE GPM		KWH	KWH/MG	1000FT3	1000FT3 per MG	CL2 TOTAL LBS.	AMMONIA GALS.
NORTH WELL SYSTEM												
1	PARKWOODS	0.00	0.00	0.00	0	160	0			0		
4	VILLA DORADO	0.00	0.00	0.00	0	280	0			0		
7	GALLOWAY	0.00	0.00	0.00	0	0	0			0		
9	DON CARLOS	0.00	0.00	0.00	0	151	0			0		
10R	VALVERDE PARK	51.30	6.67	0.22	2166	9720	1458			64	15	
11	INGLEWOOD	0.00	0.00	0.00	0	80	0			0		
15	GLASGOW	0.00	0.00	0.00	0	80	0			0		
16	ROYAL OAKS	0.00	0.00	0.00	0	783	0	0.0	0	0		
18	HICKOCK	0.00	0.00	0.00	0	67	0			0		
19	MORADA/WEST LANE	0.00	0.00	0.00	0	80	0			0		
20	WEST LANE/MOSHER	0.90	0.00	0.00	0	2177	0	0.0	0	0		
21	CORTEZ PARK	0.10	0.00	0.00	0	280	0			0		
24	SAFFRON	0.00	0.00	0.00	0	240	0			0		
25	PANELLA PARK	0.00	0.00	0.00	0	0	0			0		
26	AUTO CENTER	0.00	0.00	0.00	0	0	0	0.0	0	0		
27	HORSE PARK	0.40	0.00	0.00	0	160	0			0		
28	BLOSSOM RANCH	0.10	0.00	0.00	0	280	0			0		
28	alternate electric meter				monitor well #12	0	0			0		
29	BAXTER PARK	11.50	1.76	0.06	2556	2800	1588			6	5	
30	GRIDER	26.50	3.37	0.11	2118	5440	1615			41	7	
31	IVANO LANE*	43.20	5.22	0.17	2014	8080	1548			52	13	
32	HWY 99 FRONTAGE*	89.70	10.80	0.36	2007	15840	1466			126	29	
3R	7400 N. WEST LANE	101.00	12.51	0.42	2064	16400	1311			129	27	
NSPAF	WHITE FORGE DR	0.00							77.0		0	
NWR	NORTHWEST RESERVOIR					30600			0.0		0	
14 Mile	14 MILE RESERVOIR					18720				0		
I	TOTAL SYSTEM PRODUCTION	324.70	40.33			Total N. Elec->	112418		77.0	418	96	
	TOTAL STOCKTON EAST PURCHASED WATER		0.00			N. Well Elec->	63098					
	DWTP		483.40			N. Res Elec->	49320					
	TOTAL NORTH SYSTEM		523.73									
	DAILY AVERAGE	10.8	17.46				3747		2.6	14	3	
SOUTH WELL SYSTEM												
SS1	QUANTAS	0.00	0.00	0.00	0	653	0	0.0	0	0		
SS2	N. ARCH FRONTAGE	41.10	3.45	0.12	1400	4110	1190			11		
SS3	FRONTIER*	10.80	1.17	0.04	1798	1960	1682			10		
SS4	AIRPORT SOUTH	0.00	0.00	0.00	0	0	0			0		
SS5	AIRPORT NORTH	0.00	0.00	0.00	0	0	0			0		
SS8	SHROPSHIRE PARK	0.10	0.00	0.00	0	0	0			0		
SS9	B ST. & LITTLEJOHN	0.00	0.00	0.00	0	0	0			0		
Weston	WESTON RANCH RESERVOIR					8160				49		
K	TOTAL SOUTH WELL PRODUCTION	52	4.62									
SSA	SO SYS AQUEDUCT		113.67			99 Fring Bstr ->	68			0		
	TOTAL SOUTH SYSTEM		118.29			Tot. S. Elec->	14951		0.0	70	0	
	DAILY AVERAGE	1.7	3.94				498		0.0	2	0	
FILBERT/MLK INTERCONNECT												
	FILBERT INTERCONNECT		4.83			S. Wells Elec->	6723					
	DAILY AVERAGE		0.16			S. Res Elec->	8160					
						S. Bstr Elec->	68					
CITY & COUNTY INTERCONNECTIONS												
		Meter Reading										
F	PLYMOUTH ROAD	104660	12.04									
E	PERSHING	305448	7.21									
G	GREELEY	612837	7.29									
M	PORTOLA AVENUE	77423	2.19									
N	THORNTON	25878	6.18									
R	BALBOA	234	0.02									
			34.94									
			1.16									

Appendix B

Environmental Compliance

Monitored Industrial User Charges

Customer Charges Report

Septic Waste Haulers' Charges

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March-16		WORKSHEET FOR MONITORED INDUSTRIAL USER MONTHLY CHARGES										4/21/2016
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	2761864	2651369	0.13	330	0.36	168.82	0.18	\$0.00	Apr-16	Apr-16		
Bortech Resource Recovery	3607773	3630984	0.37	17	0.06	7.2	0.02	\$0.00	Apr-16	Apr-16		
Foodliner	27498050	27271651	0.23	2320	4.40	126.2	0.24	\$0.00	Apr-16	Apr-16		
Nisnara #11 Zan/hr	191995794	189013864	2.98	22.8	0.56	20.8	0.74	\$0.00	Apr-16	Apr-16		
California Sorey Dry Co.	228850763	228850763	0.74	0	0.00	0	0.00	\$0.00	Apr-16	Apr-16		
California Tank lines	72474314	71786460	0.70	747	4.38	643	3.19	\$0.00	Apr-16	Apr-16		
Campbell Soup Supply	423604130	422622230	0.00						Apr-16	Apr-16		
Cintas Corporation	141584700	138857640	3.23	182	5.15	103	2.77	\$0.00	Apr-16	Apr-16		
Innovation	981130466	957776128	23.35	1813	352.90	334	65.06	\$0.00	Apr-16	Apr-16		
Le Tote								\$0.00				
California Health Care Facility	3525435	1733602	1.79	0	0.00	0	0.00	\$0.00	Apr-16	Apr-16		
Midway, Crosstown Commons	1527320	1353000	0.17	26	0.04	24	0.03	\$0.00	Apr-16	Apr-16		
Diamond of California			2.36	2334	46.16	1068	21.44	\$0.00	Apr-16	Apr-16		
Dole Packaged Foods LLC Stockton	21728209	21344933	0.36	876	2.81	294.8	0.75	\$0.00	Apr-16	Apr-16		
Duraflame/Cal Cedar	5489513	5366561	0.10	20.5	0.02	10.5	0.01	\$0.00	Apr-16	Apr-16		
San Joaquin County - French Camp			7.51					\$0.00	Apr-16	Apr-16		
Grinaud Farms	95913439	95059390	0.85	796	5.67	198	1.41	\$0.00	Apr-16	Apr-16		
New Stockton Poultry	69829076	69266028	0.56	504.2	2.38	140.2	0.65	\$0.00	Apr-16	Apr-16		
Nisnara	45378233	39933371	5.44	1.4	0.06	8	0.38	\$0.00	Apr-16	Apr-16		
Northern California Youth Center	158903856	153418552	5.49	370	16.03	167	7.84	\$0.00	Apr-16	Apr-16		
Pacific Ethanol	3698334	2233180	1.46	70.28	0.85	53	0.64	\$0.00	Apr-16	Apr-16		
AECOM (was Parsons Eng)			0.39					\$0.00	Apr-16	Apr-16		
Port of Stockton - Rough and Ready			14.04					\$0.00	Apr-16	Apr-16		
DTE Stockton	110677225	106430188	4.25	18.8	0.67	41.8	1.48	\$0.00	Apr-16	Apr-16		
Anamark	1822500	5132900	2.96	243	6.72	49.37	1.22	\$0.00	Apr-16	Apr-16		
Stockton Sanitary Wash Rack	2902541	2759996	0.14	282.11	34.97	288	0.34	\$0.00	Apr-16	Apr-16		
Tankwash USA	58760048	58007743	0.75	3484	21.92	374	2.35	\$0.00	Apr-16	Apr-16		
Mickan (R&B Foods)	1396220	384060	1.01	11	0.09	104	0.88	\$0.00	Apr-16	Apr-16		
Unifirst Corp	93194317	89600369	2.50	767	16.02	222	4.64	\$0.00	Apr-16	Apr-16		
Wilmar Gavilton LLC	7506390	7059694	0.45	94	0.35	98.5	0.37	\$0.00	Apr-16	Apr-16		
Zachry Kitchens	127724622	125390014	2.33	283	4.97	128	2.34	\$0.00	Apr-16	Apr-16		
TOTAL			86.64		526.42		118.76	\$0.00				

4/21/2016

WORKSHEET FOR MONITORED INDUSTRIAL USER MONTHLY CHARGES

March-16

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
American Sunny Foods	2781884	2651369	0.13	330	0.36	166.82	0.18	\$0.00	Apr-16
Boretech Resource Recovery	3697773	3630684	0.37	17	0.06	7.2	0.02	\$0.00	Apr-16
Foodliner	27468059	27271651	0.23	2320	4.40	128.2	0.24	\$0.00	Apr-16
Niagara 811 Zaphyr	191996794	189013864	2.88	22.6	0.56	29.8	0.74	\$0.00	Apr-16
California Stroy Div Co.	228650783	228359763	0.74	0	0.00	0	0.00	\$0.00	Apr-16
California Tank lines	72474314	71705460	0.70	747	4.38	543	3.19	\$0.00	Apr-16
Campbell Soup Supply	423604130	422622230	0.00						Apr-16
Cintas Corporation	141584700	138357640	3.23	192	5.15	103	2.77	\$0.00	Apr-16
Inprecon	881130488	85776128	23.35	1813	352.90	334	65.06	\$0.00	Apr-16
Le Tote								\$0.00	
California Health Care Facility	3525435	1733902	1.79	0	0.00	0	0.00	\$0.00	Apr-16
Melroy, Crosstown Commons	1527320	1363000	0.17	26	0.04	24	0.03	\$0.00	Apr-16
Diamond of California			2.36	2334	46.16	1066	21.44	\$0.00	Apr-16
Dole Packaged Foods LLC Stockton	21728209	21344693	0.38	878	2.61	234.8	0.75	\$0.00	Apr-16
Duncliffe/Call Cedar	5488513	5369551	0.10	20.5	0.02	10.5	0.01	\$0.00	Apr-16
San Joaquin County - French Camp			7.51					\$0.00	Apr-16
Grinaud Farms	95913439	95059398	0.85	766	5.67	198	1.41	\$0.00	Apr-16
New Stockton Poultry	69828076	69286028	0.56	504.2	2.36	140.2	0.65	\$0.00	Apr-16
Niagara	45378233	36593371	5.44	1.4	0.06	8	0.38	\$0.00	Apr-16
Northern California Youth Center	158903858	153418502	5.46	370	16.93	167	7.64	\$0.00	Apr-16
Pacific Ethanol	3688334	2233180	1.46	70.28	0.85	53	0.64	\$0.00	Apr-16
AECOM (was Parsons Eng)			0.36					\$0.00	Apr-16
Port of Stockton - Rough and Ready			14.04					\$0.00	Apr-16
DTE Stockton	110577225	106430168	4.25	18.8	0.67	41.8	1.48	\$0.00	Apr-16
Aramark	1822500	5125000	2.99	243	6.72	49.37	1.22	\$0.00	Apr-16
Stockton Sanitary Wash Rack	2922541	2758996	0.14	29211	34.97	268	0.34	\$0.00	Apr-16
Tankwash USA	58760048	58007743	0.75	3464	21.92	374	2.35	\$0.00	Apr-16
Mizkan (R&B Foods)	1395220	394060	1.01	11	0.09	104	0.88	\$0.00	Apr-16
Unifirst Corp	93194317	89690389	2.50	767	16.02	222	4.64	\$0.00	Apr-16
Wilmar Gavilon LLC	7500390	7059594	0.45	54	0.35	98.5	0.37	\$0.00	Apr-16
Zacky Kitchens	127724622	125390014	2.33	283	4.97	126	2.34	\$0.00	Apr-16
TOTAL			86.64		526.42		118.76	\$0.00	

4/26/2016

Page: 1

Customer Monthly Charges Report

Date Range: 3/1/2016 to 3/31/2016

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	28,180	\$274.76	\$1,001.00	\$0.00	\$1,275.76
78477	A & J Rentals	10,400	\$101.40	\$1,232.00	\$0.00	\$1,333.40
11153	AAA Septic & Rooters	91,800	\$895.05	\$2,079.00	\$0.00	\$2,974.05
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	72,450	\$706.39	\$1,771.00	\$0.00	\$2,477.39
6200	G & C Septic	16,571	\$161.57	\$385.00	\$0.00	\$546.57
4735	Parrish and Sons	157,800	\$1,538.55	\$3,388.00	\$0.00	\$4,926.55
75717	Premium Packing	3,000	\$29.25	\$154.00	\$0.00	\$183.25
6210	Richards Pumping	127,500	\$1,243.13	\$3,927.00	\$0.00	\$5,170.13
39444	Roto Rooters Sewer Service	183,022	\$1,784.46	\$4,312.00	\$0.00	\$6,096.46
74032	SRC Pumping Co	48,994	\$477.69	\$847.00	\$0.00	\$1,324.69
Grand Totals		739,717	\$7,212.24	\$19,096.00	\$0.00	\$26,308.24

Approved By: _____

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