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MUNICIPAL UTILITIES

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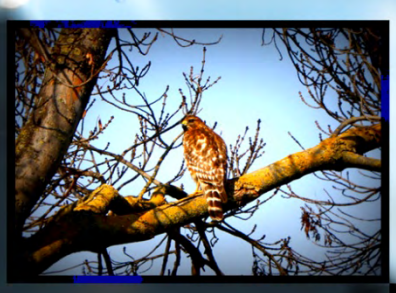

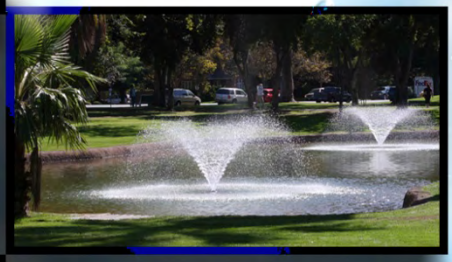

Monthly Operations and Maintenance Report

June 2013

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WSID0072

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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 -	
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
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
C.I.I.	Commercial, Institutional, Industrial
CIP	Capital Improvement Project
CIWMB	California Integrated Waste Management Board
CM	Construction Manager
CMC	Criterion Maximum Concentration
CO	Carbon Monoxide
CO	Correction Order
COD	Chemical Oxygen Demand
COP	Certificate of Participation
CoS	City of Stockton
CCB	Chlorine Contact Basin
CIP	Capital Improvement Projects
CMMS	Computerized Maintenance Management Systems
CPFF	Cost Plus Fixed Fee
CPIF	Cost Plus Incentive Fee

ACRONYM	DEFINITION
CPPC	Cost Plus Percentage
CPR	Cardiopulmonary Resuscitation
CQA	Construction Quality Assurance
CQC	Construction Quality Control
CSO	Combined Sewer Overflow
CSPA	California Sportfishing Protection Alliance
CSR	Customer Service Request
CTG	Control Techniques Guidelines
CUWCC	California Urban Water Conservation Council
CVFPB	Central Valley Flood Protection Board
CWEA	California Water Environment Association
- 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
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
- F -	
FA	First Aid
FBI	Federal Bureau of Investigation
FEMA	Federal Emergency Management Agency
FFY	Federal Fiscal Year

ACRONYM	DEFINITION
FFP	Firm Fixed Price
FIP	Federal Implementation Plan
FOG	Fats, Oils, and Grease
FY	Fiscal Year
- 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_2S	Hydrogen Sulfide
HAA or HAA5	Haloacetic 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
IO	Information Officer
IPM	Integrated Pest Management
IT	Information Technology
- J – K -	
JPA	Joint (exercise of) Powers Authority

ACRONYM	DEFINITION
- 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
NIPC	National Infrastructure Protection Center
NIOSH	National Institute for Occupational Safety and Health
NOD	Nitrogenous Oxygen Demand
NOEC	No Observed Effect Concentration
NOEL	No Observed Effect Level

ACRONYM	DEFINITION
NOI	Notice of Intent
NOT	Notice of Termination
NOV	Notice of Violation
NOX	Nitrogen Oxides
NPDES	National Pollutant Discharge Elimination System
NRC	National Response Center
NRR	Noise Reduction Ranking
NRWA	National Rural Water Association
NTC	Notice To Clean
NTU	Nephelometric Turbidity Units
NWS	National Weather Service
- 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
PM-10	Particulate Matter <10 microns
PMP	Probable Maximum Precipitation
PMSD	Percent Minimum Statistical Difference
POC	Pollutants of Concern
POL	Petroleum, Oil, and Lubricant
POSM	Pipeline Observation System Management.

ACRONYM	DEFINITION
POTW	Publicly Owned Treatment Works
PPE	Personal Protective Equipment
ppm	parts per million
PSMP	Process Safety Management Plan
PSRP	Processes to Significantly Reduce Pathogens
PVC	Polyvinyl Chloride
- 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 which makes sewer TV inspection equipment. It is the brand name of the TV equipment used by MUD.
RTU	Remote Terminal Units
RWCF	Regional Wastewater Control Facility
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

ACRONYM	DEFINITION
SEMS	Security and Emergency Management System
SEWD	Stockton East Water District
SIP	State Implementation Plan
SJCEHD	San Joaquin County Environmental Health Department
SJVAPCD	San Joaquin Valley Air Pollution Control District
SMARTS	Storm Water Multiple Application and Report Tracking System
SO_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
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

ACRONYM	DEFINITION
- 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
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
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 & Business Services activities for June 2013. It includes statistical data and narrative descriptions of activities, events, and issues that the City of Stockton, Municipal Utilities Department (MUD) feel are important to record and document.

Water Resources

Staff filed the Notice of Completion with the County on June 26 for the Delta Water Supply Project Intake and Pump Station Project. CDM Smith is working with staff to schedule Part 2 of the final acceptance test on the Water Treatment Plant. This effort has been delayed somewhat until the Intake and Pump Station flex joint is replaced and the station is ready to resume regular operations. Delays in getting materials and equipment have set this schedule back but will not affect DWTP production as the WID source water is still available for treatment through the end of July 2013. WID has notified us they have additional water available beyond the contract period if needed.

Working with laboratory staff, Water Resources completed and posted the *Consumer Confidence Report (Water Quality Report)* which is to be made available for customer viewing in June of each year. This was the first year that the State allowed internet posting in lieu of direct mail. The June 2013 issue of the *Stockton Water News* had information for our customers on how to access the report. Staff also completed the triennial *Public Health Goals Report* which is required to be completed by July 1, 2013. This report will be presented to the City Council as a public hearing on July 30, 2013 to provide information on the Utility's water quality as it pertains to State Public Health Goals and federal Maximum Contaminant Level Goals.

CDM Constructors Inc. has mobilized its construction trailer and is finalizing the design for the Ammonia Facilities Project. This project will construct ammonia facilities on the North Stockton pipeline from the Stockton East Water District in addition to six groundwater wells to convert the current method of distribution residual disinfection from chlorine to chloramines to comply with U.S. Environmental Protection Agency Stage 2 Disinfection Byproducts Rule. Staff is preparing the lengthy public outreach effort in conjunction with the State Department of Public Health regarding the chloramine conversion. Specific target groups included kidney dialysis clinics and pet stores.

The Water Conservation Program continued to implement water saving programs and incentives in accordance with best management practices and State mandated water use reductions. Water conservation information was provided at two Stockton Ports events in June. The San Joaquin UC Master Gardener Program hosted its monthly workshop at the DWTP. A third field survey was conducted in June for a program participant in the large landscape pilot program. Findings included sprinkler leaks, overspray and excessive run times associated with the irrigation system. A report was provided with several

recommendations for improvement. Interest continued in the High Efficiency Toilet Direct Install Program and In-Home Water Use Surveys.

Water Distribution, Treatment, and Production

The DWTP continued treating Woodbridge Irrigation District water during the month. Production ranged from 19.28 to 22.67 and averaged 20.25 million gallons per day (mgd).

With the exception of a few minor issues ranging from a blown fuse on one of the filter skids, an increase in turbidity in the settled water due to a coagulant feed pump failure and turbidity meter output problems before the filters, the plant ran very well during the month. Plant operators worked on drying solids in two of the three sludge drying basins in preparation for the next round of basin operations. Staff is working on a disposal contract to landfill the dried solids. The plant continued to meet regulatory limits for Combined Filter Effluent (CFE), maintained at 0.1 Nephelometric Turbidity Units (NTU) at all times.

The demolition project for Wells #13, #22 and #23 is progressing quickly and will soon be complete. Contractors are in the process of removing buildings, motors, pumps, valves, and other equipment. Distribution crews monitored system pressure in the Weston Ranch area during a 30" main shutdown to relocate distribution mains as part of the French Camp/I-5 interchange project. Work continued on the repair of the 48" transmission main in the vicinity of the Stockton Auto Mall.

Wastewater Treatment

The department participated in a chemical consortium for bidding chemicals with various wastewater plants in the region to offer vendors the opportunity to sell greater quantities of their products. The total cost savings to the City will be approximately $465,000. Council approved the contracts at the June 11 Council meeting.

Wastewater Collections

A total of 6 Sanitary Sewer Overflows (SSOs) occurred during the month. All spills were Category 2, which means they were less than 1,000 gallons and captured before entering into a waterway. All pipes and areas affected were cleaned to ensure capture of the pollutants and returned to the sanitary sewer system.

Preventive maintenance on the sanitary stations continued. Pump impellers and pump housing de-ragging continues at various sanitary sewer stations on a daily basis to keep the stations operating efficiently. Painting of the sanitary pump stations continues in order to protect the facilities and prevent weather related damage.

We have ordered several new level transmitters to replace the obsolete bubbler systems at the sanitary stations. This will help prevent sanitary sewer overflows by increasing accuracy and reliability of the level and control sensing equipment.

Environmental Control

The Fats, Oils, and Grease (FOG) Program is in its third year of restaurant inspections. AS400 data entries are made on a daily basis as officers complete their inspections.

The FOG Program Grease Disposal Mitigation Fee has been approved by council and is included in the 2013-14 Fee Schedule.

FOG Program staff will begin performing restaurant Stormwater inspections in January 2014. These inspections will occur in conjunction with the regular FOG annual inspections at each facility. Preparation and training will commence mid-July to accommodate these additional responsibilities. Enforcement, follow-up inspections, billing procedures and correspondence related to the Stormwater inspections will be performed by Stormwater Division staff.

Laboratory

There were no violations of the NPDES permit in June. All acute biotoxicity tests had 100% survival; there were no ammonia-nitrogen or cyanide exceedances of permit limits.

The annual T22 testing on the Delta source and Finished Water for DWTP was done in June. In addition, 5 groundwater wells had the "Cycle Test" performed as requested by CDPH. Only 3 of the wells passed the cycle tests.

The lab analyzed 850 samples for 3,895 analyses. Contract labs analyzed 144 samples for 470 analyses. There were 294 samples for NPDES Permit compliance; 267 samples for process control, and 289 samples for drinking water compliance.

In June, the Lab had all fume hoods recertified by Technical Safety Services.

Engineering

Engineering staff had 27 active Capital Improvement Projects for the month of June.

There were 11 Development Reviews received and 6 completed this month.

Six proposals were received May 23, 2013 in response to the Request for Proposals for the City of Stockton Regional Wastewater Control Facility Headworks Rehabilitation Project. A Selection Committee comprised of City staff met on June 10 to shortlist the consultants and interviews were conducted on June 19.

GIS performed the monthly Pipeline Observation Management System (POSM) update and various queries against the GIS data for statistics and analysis support

Stormwater

There were six storm drain catch basin covers stolen. The City continues to seek ways to prevent additional thefts of these drain grates. Police reports are filed for each occurrence of stolen grates.

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

Stormwater Program continued to work collaboratively with the Regional Water Quality Control Board (RWQCB) and San Joaquin County on the development of new permit, which is anticipated to be adopted by the RWQCB in October 2013. Program staff, Condor Earth Technologies, and Larry Walker Associates continued site planning for the launch of a Methlymercury Control Study to commence within the Charter Way Detention Basin in October 2013.

There were 16 Stormwater inspections conducted at active construction sites. Additional calls reported on the hotline or while conducting normal business, combined with the

construction inspections, resulted in 11 Verbal Warnings, 1 Correction Orders, 2 Notice to Clean, 1 Notice of Violations, and 0 Administrative Citations being issued.

A successful dry weather urban discharge dry weather sampling event was conducted on June 11. Samples were collected at urban discharge and receiving water sampling locations along Smith Canal, Calaveras River, Duck Creek and Mosher Slough

Administration

There were no injuries or illnesses this month, and one vehicle incident.

Training opportunities continued this month including a confined space, MSDS, backhoe safety, respirator fit testing, and hazardous communication.

Recruitment activities continue on an ongoing basis to fill vacated positions and to fill recently approved positions. MUD is currently staffed at 187 of the approved 208 positions.

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 planning coordination, water utility budgeting, and support to the Community Development Department Planning Division. Since its inception in 2004, the Division has focused primarily on the delivery of a new surface water supply through the development of the Delta Water Treatment Plant (DWTP). That multi-year effort included acquisition of water rights, facility planning and permitting, rate setting and financing, and project implementation.

Water Resources staff support the DWTP and distribution operations staff by procuring materials and supplies for the new treatment plant, in addition to negotiating various maintenance and service contracts.

Staff filed the Notice of Completion with the County on June 26 for the Delta Water Supply Project Intake and Pump Station Project. It is likely that Preston will dispute the final payment as there will be withholds for monies due the City for liquidated damages and other charges. CDM Smith is working with staff to schedule Part 2 of the final acceptance test on the Water Treatment Plant. This effort has been delayed somewhat until the Intake and Pump Station flex joint is replaced and the station is ready to resume regular operations. Delays in getting materials and equipment have set this schedule back, but will not affect DWTP production as the WID source water is still available for treatment through the end of July 2013. WID has notified us they have additional water available beyond the contract period if needed.

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The Water Conservation Program continues to develop and implement water saving programs and incentives in accordance with the following:

- The 2006 Memorandum of Understanding with the California Urban Water Conservation Council (CUWCC) to implement best management practices to conserve water in urban areas
- The Urban Water Management Planning Act identifying 14 Demand Management Measures to achieve water conservation savings
- The Water Conservation Act of 2009, which requires a statewide reduction in per capita water consumption by the year 2020

In the following sections, a summary is presented for those programs and incentives.

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 eight complaints received and staff was able to resolve each of the problems. Table 1.1 provides a summary of these activities.

Outreach and education is also achieved through monthly utility bill inserts, print and web-based publications, and participation at community events.

Staff attended two Stockton Ports events in June, including one Education Day, whereby water conservation information was distributed and outreach efforts were conducted.

Table 1.2 illustrates the number of impressions made as part of these outreach efforts.

The San Joaquin County Master Gardener Program hosted its monthly workshop at the DWTP on June 8. This group will continue to meet monthly at the DWTP the second Saturday of each month.

School Programs

Through participation in the Stockton Area Water Suppliers (SAWS), local area schools are offered onsite assemblies, in-class presentations, and after-school programs. The City receives an annual report on the SAWS Water Education Program summarizing the programs and information provided, the number of students that were reached, and feedback from teaching professionals. For the 2011/2012 school year, the SAWS Water Education Program reached a total of 27,430 students and participants, a 16% increase from the 2010/2011 school year.

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 resources. Three surveys were completed in June with an additional 38 requested.

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 Water Conservation Program finalized its participation in the CUWCC's SMART Rebate Program, established in 2007. This program offered rebates to customers who purchased and installed water efficient toilets and clothes washers. Table 1.5 provides a summary of all rebates processed to-date. All available funding has been exhausted for this program.

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. One installation was completed in June.

Table 1.6 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 for approximately 120 sites. Three field surveys have been completed to-date with the most recent survey completed in June. Survey customers were provided with a comprehensive report of findings and recommendations. The ultimate goal of the program is to improve water efficiency amongst large landscape customers.

Available free of charge is an internet resource (www.stockton.watersavingplants.com) made available through the Water Conservation Program. This website provides information on water efficient gardens, resources, and watering tips. The site also allows users to plan their own water efficient garden online. This month, there were 177 visitors to the website.

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Water Treatment, Production, and Distribution

Operational Activities

The City's Delta Water Treatment Plant and Water Distribution Division are responsible for the treatment, production, operation, and maintenance of the City of Stockton Water Treatment Plant and Distribution Systems. The systems use a combination of surface water treated and delivered by the City's water treatment plant from the Mokelumne River and/or the Delta, groundwater wells, and surface water treated and delivered by Stockton East Water District (SEWD) from 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 an elaborate system of wells, reservoirs (storage tanks), pipelines, valves, and meters. The system is monitored and maintained 24/7 through electronic equipment 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, reading all 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.

Department of Public Health

There were no bacteriological water quality violations in this month's samples. The monthly coliform monitoring report was submitted to the Department of Public Health. Table 2.1 presents a summary of the Coliform Monitoring results in the distribution system.

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.

Water Treatment

The DWTP continued treating Woodbridge Irrigation District water during the month. Production during the month ranged from 19.28 to 22.67 and averaged 20.25 million gallons per day (mgd).

With the exception of a few minor issues ranging from a blown fuse on one of the filter skids, an increase in turbidity in the settled water due to a coagulant feed pump failure and turbidity meter output problems before the filters, the plant ran very well during the month. Plant operators worked on drying solids in two of the three sludge drying basins in preparation for the next round of basin operations. Staff is working on a disposal contract to landfill the dried solids.

The plant continued to meet regulatory limits for Combined Filter Effluent (CFE), maintained at 0.1 Nephelometric Turbidity Units (NTU) at all times.

Maintenance staff from the DWTP and Distribution are working together to remove and replace the flexible joints on the discharge pipe from the Intake and Pump Station (IPS). The existing flex joint installed as part of the IPS project has now reached the limit for its intended use and will be replaced by a new flex joint and offset pipe spool. This work was intended to be complete in June, but delays have it scheduled for completion in late July. Delays in getting materials and equipment have set this schedule back but will not affect DWTP production as the WID source water is still available for treatment through the end of July. WID has notified us they have additional water available beyond the contract period if we need the water.

Water Production

The demolition project for Wells #13, #22 and #23 is progressing quickly and will soon be complete. Contractors are in the process of removing buildings, motors, pumps, valves and other equipment. Personnel assisted distribution crews by monitoring system pressure in the Weston Ranch area during a 30" main shutdown to relocate distribution mains as part of the French Camp/I-5 interchange project. 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, the 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 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 2011-2012 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 2011-2012 is presented for comparison. The metered consumption figures are not available until after all billing is completed in the City's HTE system and are not included in the current month column.

SEWD 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 well 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. The corresponding table from fiscal year 2011-2012 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 2011-2012 is presented for comparison.

Water Distribution

Construction

Crews replaced thirteen service lines. Staff continues to assist the maintenance crews with large meter replacements and other jobs requiring special equipment. Outside contractors were used on three emergency service line breaks.

Hydrant

Crews repaired seven hydrants and painted one hydrant due to graffiti. Repairs consisted of cap, O-ring, valve gasket, chain, and coupler repair or replacement. One fire flow test was performed. Routine maintenance consisting of marker replacement, painting, and weed control continued throughout the month.

Customer Service

There were 48,557 water meters read for monthly billing. There were 1,192 meters turned on or locked off for account openings or closings within this period. Crews responded to 8 high bill complaints. Staff continued to replace broken registers, repair damaged touch-read wires, and respond to various customer inquiries.

Maintenance

Crews continue to focus on the small meter change-out backlogs by replacing 134 small meters. Recently added staff being trained within the crew replaced over 100 registers. Staff assisted construction crews with emergency service line/main line breaks when needed. Personnel continued to respond and repair numerous small meter leaks.

Distribution

Personnel working with Teichert Construction completed the repair of a leaking 48" transmission main that feeds water from Stockton East Treatment Plant to north Stockton. Crews continue to work with the Public Works Department on various aspects of the 18" and 24" water relocation project at Interstate 5 and French Camp Road. Staff continued monthly backflow tests/surveys, valve exercising, air relief valve maintenance, water conservation inquiries, and weekly bacteriological sampling.

System Connections

Table 2.8 presents a summary of new meter installations applied to the reading routes. There may be a delay in applying the meter to the route once it has been installed, causing a difference from the actual number of new meter installations. The total number of active meter connections by size is presented in Table 2.9.

Water Quality Inquiries

Table 2.10 presents a summary of water quality inquiries and the corrective measures that were taken to resolve those inquiries. It is important to note that May was the first month in recent memory where there were two taste/odor, color, turbidity or suspended solids complaints, which were resolved satisfactorily.

Customer Services Operations

Table 2.11 presents a summary of the meters read during the month, and the account openings and closings.

Cross Connection Control Program

Notices were sent out to all customers with backflow devices that were due for testing by July 1, 2013. There were 261 devices to be tested and 65% of those were tested before the due date. The remainder will be sent a second notice. Table 2.12 presents the number of devices scheduled to be tested during the month and the number of devices tested.

Staff continues their cross connection survey efforts to identify and follow up with water customers that are required to install backflow prevention devices on their water system. As the potential hazards are located, notices are sent, and staff is working to bring them into compliance. Table 2.13 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 running and maintaining the Regional Wastewater Control Facility (RWCF). The division is managed by the Deputy Director of Wastewater and consists of 31 employees in Operations and 20 in Maintenance. Operations staff works 24-hours a day, 7-days a week, treating approximately 30 million gallons of sewage a day before it is discharged into the Delta.

Discharge Permit

The RWCF met all interim and final NPDES Permit compliance requirements. Table 3.1 presents a summary of influent and effluent discharge parameters as comprised with the NPDES permit limits. The Stockton Regional Wastewater Treatment Plant treated an average flow of 30.3 MGD with a peak flow of 41 MGD. There were no NPDES violations this month.

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 are also shown for comparison.

Residuals and Chemical Management

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

Cake Solids

The Belt Filter Press is the wastewater treatment dewatering process that produces sludge cake solids. The sludge cake solids are collected, removed offsite, and land applied to agricultural land. Figure 3.D presents actual values for the total percentage of cake solids produced. The aging infrastructure at the solids handling area has made it difficult to meet production at times, but this month production was met. The Engineering Division is working on a stop-gap solution until the solids project can be built. The early start of the solids capital work would be 2017.

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 U.S. Peroxide to determine dosage rates 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 Consumption Summary

A variety of 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 amount of chlorine used to disinfect the effluent prior to discharge to the river thus protecting water quality and wildlife. Sodium hydroxide is used to raise the pH to meet the permit requirements for discharge. Table 3.4 presents a summary of the chemical consumption for the wastewater treatment facilities.

The department participated in a chemical consortium for bidding chemicals with various wastewater plants in the region to offer vendors the opportunity to sell greater quantities of their products. The total cost savings to the City will be approximately $465,000. Council approved the contracts at the June 11 Council meeting.

Wastewater Operations and Maintenance Facility Activity Report

- Gravity Belt Thickener sludge discharge line was cleaned by Fremouw Environmental.
- Primary Clarifiers #7 and #4 broken flights are being repaired by maintenance.
- Primary Clarifier #3 has broken flights; the tank is being drained for maintenance to repair.
- Primary Clarifiers #4 and #7 are back in service.
- Belt Filter Press #1 and #2 wash box rubber scrappers were replaced.
- The dewatering belts were replaced on Gravity Belt Thickener #1 and Belt Filter Press #1.
- Belt Filter Press #2, drive roll bearing was repaired.
- U.S. Peroxide personnel came in to clean out tank and prepare their equipment ready for removal.
- Siemens Industry personnel came in to set up a temporary peroxide supply system until their tank and pump arrive.
- San Joaquin County Vector Control called and asked that we have the wetlands sprayed for Mosquitos. Alpine Helicopter service sprayed the wetlands with Vectorlux Mosquito Control.

Table 3.6 summarizes the preventive and corrective work at the plant.

Utilities

The RWCF participates in an Emergency Energy Demand Response Program by reducing the energy demand during emergency or peak demand periods. Between May and October, when increased demands on the energy system may lead to power outages or brownouts, RWCF has agreed to reduce its energy use in order to meet those peak demands. To meet those requests, the RWCF will shut down the Tertiary Treatment Plant. This does not affect operations or water quality, due to the storage capacity available in the ponds. No requests were made this month.

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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 the Consent Decree[1] and preventive maintenance activities. The main focus of the daily activities are systematic cleaning of the sanitary system, followed by closed circuit television (CCTV) inspections, and responding to customer issues with the lower lateral.

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

Regional Water Quality Control Board (RWQCB)

A total of 6 Sanitary Sewer Overflows (SSOs) occurred during the month. All spills were Category 2, which means they were less than 1,000 gallons and captured before entering into a waterway. All pipes and areas affected were cleaned to ensure capture of the pollutants and returned to the sanitary sewer system.

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

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 are indicating continued problems with lower lateral sections of the City's pipes. Staff has initiated a program to proactively address maintenance issues with the lower lateral pipes. The summary of maintenance work performed is shown in Table 4.2 and a comparative table of prior year activities is also presented for comparison.

Customer Service

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

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

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 Regional Wastewater Control Facility (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

There were four odor complaints. Employees are trained to investigate all potential reasons for these complaints. Staff continues to research new and emerging technology to address odors and corrosion associated with high hydrogen sulfide levels in Systems 7 and 8.

Pumping Facilities

Preventive maintenance on the sanitary stations continued. Pump impellers and pump housing de-ragging continues 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.

Painting of the sanitary pump stations continues in order to protect the facilities and prevent weather related damage.

The rebuild for the Brookside and I-5 sanitary station #2 pump is complete. The pump has been installed and is running properly. The #1 pump at the same station had a new impeller installed and is also back in service.

Smith Canal Station pump # 5 has been removed and was sent out to be rebuilt.

Several new level transmitters were purchased to replace the obsolete bubbler systems at the sanitary stations. This will help prevent sanitary sewer overflows by increasing accuracy and reliability of the level and control sensing equipment.

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).

The Fats, Oils, and Grease (FOG) Program is in its third year of restaurant inspections. AS400 data entries are made on a daily basis as officers complete their inspections.

The FOG Program Grease Disposal Mitigation Fee has been developed and will be included in the 2013-14 fee schedule.

FOG Program staff will begin performing restaurant stormwater inspections in January 2014. These inspections will occur in conjunction with the regular FOG annual inspections at each facility. Preparation and training will commence mid-July to accommodate these additional Environmental Control Division responsibilities. Enforcement, follow-up inspections, billing procedures and correspondence related to the stormwater inspections will be performed by Stormwater Division staff.

Reports/Statistics

Table 5.1 presents 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 two pretreatment enforcement actions and no stormwater complaints or stormwater enforcement action.

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

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Laboratory

Operational Activities

The Laboratory Division collects and analyzes samples for NPDES permit compliance for the Wastewater Division, and analyzes and oversees contract lab analyses for T22 compliance for the Water Division. The Laboratory is accredited under California Department of Health Services, Environmental Laboratory Accreditation in five different fields of testing. Those fields are: microbiology of water, microbiology of wastewater, inorganic chemistry of drinking water, inorganic chemistry of wastewater, and whole effluent toxicity of wastewater. The staff consists of the laboratory supervisor, a microbiologist, two chemists, and three laboratory technicians.

Wastewater Sampling and Analyses

Effluent Weekly Acute Static-renewal Toxicity Testing with Rainbow Trout

All tests had 100% survival of Rainbow Trout. Results are shown in Table 6.1. Analyses were done by in-house staff and Pacific EcoRisk.

Effluent Quarterly Chronic 3-species Toxicity Testing

Routine quarterly testing done in April showed no toxicity to the three species. Next quarterly monitoring will be conducted in July 2013. Results of testing are shown in Tables 6.2, 6.3, and 6.4.

Effluent Monitoring – Cyanide

The waste discharge requirements (WDR) contains a requirement to monitor the treatment plant effluent monthly for cyanide, and contains monthly average (4.1 µg/L) and daily maximum (9.2 µg/L) requirements. There was no exceedance of the time schedule order. The monthly result was DNQ 1.5 µg/L, shown in Table 6.5.

Effluent Ammonia Testing

The WDR contains a monitoring requirement to monitor the treatment plant effluent twice a week from March through August; twice per week testing was done this month. The permit contains limits of monthly average (2 mg/L) and daily maximum (5 mg/L) requirements. There were no daily maximum limit exceedances as shown on Table 6.6. The monthly average was <0.5 mg/L, the monthly maximum was 0.6 mg/L.

Drinking Water Sampling and Analysis

Routine domestic water quality for finished water and raw water wells was completed. The annual T22 testing on the Delta source and Finished Water for DWTP was done in June. In addition, five groundwater wells had the “Cycle Test” performed as requested by CDPH. Only three of the wells passed the cycle tests.

Laboratory Operations

The lab analyzed 850 samples for 3,997 analyses. Contract labs analyzed 144 samples for 470 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 294 samples for NPDES Permit compliance; 267 samples for process control, and 289 samples for drinking water compliance.

In June the Lab had all fume hoods re-certified by Technical Safety Services.

Engineering

The primary responsibilities of the Engineering Division are management and execution of the Department's Capital Improvement Program, Development Services, and Geographical Information Systems.

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 daily to individual engineers within the Engineering Division with specific completion dates.

The Department's Capital Improvement Program (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). The Division offers the full array of CIP services, including computer-aided design and drafting, and construction inspections.

The Geographical Information Systems (GIS) program is responsible for the mapping and database management of utilities that are owned and operated by the Department.

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 time required for the submittals. There were eleven Development Reviews received and six completed.

Development Review Projects

Short descriptions of the development reviews received are as follows:

- Improvement Plans – Fresno Ave Street Improvement Project
- Improvement Plans – New Stockton Courthouse – 180 E. Weber Ave.
- Request for Utility Service – Century Mobile Home Park – 3312 E. Sunny Road
- Request for Utility Service – 1506 E. Mariposa Road
- Stormwater Quality Control Plan – Arco Service Station – 400 W. Dr. Martin Luther King Jr. Blvd.
- Stormwater Quality Control Plan – Kelly's Express Car Wash
- Stormwater Quality Control Plan – Starbuck's Café 3011 W. Ben Holt
- Stormwater Quality Control Plan – O'Connor Woods Memory Care Building
- Tentative Map – 1505 Navy Drive
- Tentative Map – 505 W. Harding – Family Dollar
- Use Permit: 2527, 2511, and 2531 E. Main Street – Second Hand Thrift Store

Figure 7.B represents the number of development reviews received and completed since the start of the 2012-2013 fiscal year.

Capital Improvement Project Milestones

The Engineering Division has 53 budgeted Capital Improvement Program (CIP) projects in fiscal year 2012-2013. Engineering staff is currently working on 27 of those projects. Table 7.1 is a graphic summary of the most active, current CIPs.

Upcoming and completed milestones for a few, select CIP projects are as follows:

2012 Sanitary Sewer Rehabilitation Project (M11002)

California Trenchless, Inc. has completed approximately 90% of the rehabilitation of sewer pipeline. The Project is coordinating with Housing Authority to gain access into a number of private backyards.

Arch Road Sanitary Sewer Trunk Line (M09106)

The bidding process is anticipated to begin in July 2013.

Pershing Sewer Crossing at the Calaveras River Project (M13005)

Siegfried Engineering, Inc. is currently developing the pre-design report for a sewer main crossing at the Calaveras River and is due August 12, 2013. The new sewer main will be installed under the Calaveras River by using trenchless technology, and span over 800 feet.

CAT Engine Replacement at Water Wells 25 and 26 –Phase I (M08001)

The bidding process is anticipated to begin in July 2013.

Rehabilitate Thornton Road Sanitary Pump Station (M13009)

A Request for Proposals to provide engineering design services for the rehabilitation of the Thornton Road Sanitary Pump Station was issued on May 20 and 3 proposals were received by the June 13, 2013 due date.

RWCF Bulk Sodium Hypochlorite and Sodium Bisulfite Project (M12007)

Project is on hold pending instrumentation and control strategy. The bid process is scheduled to begin early 2014.

RWCF Headworks Rehabilitation Project (M13007)

Six proposals for the preparation of design documents were received on May 23 in response to the Request for Proposals for the City of Stockton Regional Wastewater Control Facility Headworks Rehabilitation Project. A Selection Committee comprised of City staff met on June 10 to shortlist the consultants and interviews with three firms were conducted on June 19. The Selection Committee selected CDM-Smith, Inc. to design the Headworks Rehabilitation Project, and the award of the professional services contract is scheduled to go the City Council on August 27, 2013.

Smith Canal Sanitary Sewer Pump Station – Wet Well (M09093)

The Smith Canal Sanitary Sewer Pump Station project advertised for bids on June 21. There will be a pre-bid meeting on July 2, 2013 and bid opening on July 25.

Geographical Information Systems Projects

The GIS Program is responsible for the computerized mapping of all water, sanitary sewer, storm drainage, and nonpotable water infrastructure. This technology enables diverse City databases to be displayed and analyzed using a geographically oriented interface.

GIS performed and completed the following tasks:

- Performed the monthly Pipeline Observation Management System (POSM) update
- Performed various queries against the GIS data for statistics and analysis support
- Updated the Department's Organizational Chart with numerous changes
- Continued corrections and updates to the MUD utility layers in GIS
- Creation and revision of numerous maps

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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 Regional Water Quality Control Boards (RWQCB) on behalf of the U.S. Environmental Protection Agency (USEPA).

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, fifty percent 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 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 impacts to stormwater
- 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

There were six storm drain catch basin covers stolen. The City continues to seek ways to prevent additional thefts of these drain grates. Police reports are filed for each occurrence of stolen grates.

The downtown business area is being inspected monthly and cleaning of the areas surrounding the catch basins completed on as-needed basin 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.

- The Back-flow relocation and cooling pipe upgrade at the Legion Park Storm Station has been completed.
- The Back-flow device was replaced at our West Lane South Storm Station after it was stolen. We have made changes to a protective cage to try to prevent further theft of this device.

Permit Compliance

Stormwater Program continued to work collaboratively with the Regional Water Quality Control Board (RWQCB) and San Joaquin County on the development of new permit, which is anticipated to be adopted by the RWQCB in October 2013. Program staff, Condor Earth Technologies and Larry Walker Associates continued site planning for the launch of a Methlymercury Control Study to commence within the Charter Way Detention Basin in October 2013.

Storm Drainage Assessment Districts

Spring quarterly maintenance was conducted on the Stockton Airport Business Center, Charter Way, Western Pacific, Airport Gateway, Riverbend, Morada, and ProLogis Park Basins. The scope of work for the maintenance contract includes vector control; weed abatement; rodent control; slope dressing; mowing, ripping, discing, and grading the basin bottom (as needed); trash and debris pick-up and removal; cleaning of basin structures; and sedimentation relocation.

Storm Water Inspection and Maintenance Services (SWIMS) conducted the spring inspections of all the underground stormwater treatment vault filtration systems in June. The underground stormwater treatment vault filtration systems remove solids from stormwater before discharging it to receiving waterways. These vaults are located throughout the City and maintained by the Stockton Consolidated Storm Drainage Maintenance Assessment District No. 2005-1. Staff is reviewing the inspection reports and photos to determine which will vault sites will be approved for maintenance cleanings this summer.

Stormwater Inspections

There were 16 Stormwater inspections conducted at active construction sites. Additional calls reported on the hotline or while conducting normal business, combined with the construction inspections, resulted in 11 Verbal Warnings, 1 Correction Orders, 2 Notice to Clean, 1 Notice of Violations, and 0 Administrative Citations being issued.

Stormwater Monitoring

A successful dry weather urban discharge dry weather sampling event was conducted on June 11. Samples were collected at urban discharge and receiving water sampling locations along Smith Canal, Calaveras River, Duck Creek and Mosher Slough. A dry weather pesticide plan monitoring event was also conducted in concert with the dry weather urban discharge dry weather monitoring event on June 11. Pesticide samples were collected along Mosher Slough, Calaveras River, Smith Canal, and Five Mile receiving water sampling locations. All samples were submitted for pyrethroid and diazinon/chlorpyrifos analysis.

Outreach and Education

Various outreach and educational programs are promoted by staff to improve stormwater awareness in the community. A stormwater hotline allows residents to report illegal discharges, street flooding, request stream clean-up information, or to contact stormwater staff. Information is distributed through various sources such as the monthly utility bill inserts, City website, various publications, presentations to schools and community groups, multi-media campaigns, and participation at community events. Brochures and promotional material are provided at all events. Messages are included regularly in the Utility Bill insert and on the City website. Table 8.3 illustrates the number of impressions made as part of these outreach efforts.

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Administration

Operational Activities

The Administration and Business Services divisions are responsible for the overall business operations of the Municipal Utilities Department, including personnel, purchasing, public outreach, health and safety, regulatory compliance, budgeting, and accounts payable. The staff in these two divisions supports the workflow of the entire department to keep operations running smoothly.

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 OSHA guidelines. Table 9.1 provides a summary of unsafe conditions or acts that occur during the month, along with a running total for the year. Table 9.2 provides information on work-related injuries and illnesses. This is a continuously evolving program that responds to the needs of staff to work in a safe and accident free environment. It is important to note that 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 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

There were no injuries or illnesses this month, and only one vehicle incident.

Training opportunities continued this month including confined space, MSDS, backhoe safety, respirator fit testing, and hazardous communication.

Human Resources

Staffing Activities

Recruitment activities continue on an ongoing basis to fill vacated and recently approved positions. MUD is currently staffed at 187 of the approved 208 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

- Assistant/Assistant Civil Engineer (active recruitment)
- Collection Systems Operator (active recruitment)
- Plant Maintenance Mechanic (active recruitment)

- Water Systems Operator (active recruitment)

Positions Filled / Department Transfer

- Plant Operator/Water

Resignations / Separations / Retirements

- Senior Plant Maintenance Supervisor
- Water Field Technician

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 2011-2012 are also shown below Table 9.5. Overtime increased slightly 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 June 18, no deficiencies were identified.

The triennial statements of water diversion and use were submitted to the State Water Resources Control Board on June 27.

Facility Tours

There were no technical tours in June.

There were no bird-watching tours.

Reference

Tables and Figures

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Water Resources

Table 1.1 – Water Waste Complaints

Water Conservation	*Month-to-Date*		*Year-to-Date*	
	New	*Open*	*Closed*	*Completed*
Complaints				
Broken Sprinklers / Irrigation Leaks/ Other Leaks	1	0	1	68
Over-irrigation / Water Run-off	6	0	6	69
Watering during Restricted Hours	1	0	1	3
Invalid/Unable to Verify	0	0	0	2
Other Conservation Calls	0	0	0	1
Totals	8	0	8	143

Table 1.2 – Water Conservation Outreach

Description	Type	Date(s)	Impressions
Utility Bill Insert	Print Media	June	47,759
Impressions/Literature Distribution	Other	June	1,575
Stockton Ports Education Day	Community Event	June 3, 2013	250
Stockton Ports	Community Event	June 22, 2013	275

Table 1.3 – Water Conservation Surveys

Survey Type	*Requested / Pending*	*Completed*
In-Home Single Family	0	0
In-Home Multi-Family	0	0
REACON Business	0	0
Self-Certified Surveys	38	3
Other	0	0
TOTAL	38	3
FY-to-Date	406	46

Table 1.4 – Water Saving Devices

Device Description	*Quantity Distributed*	*FY-to-Date*
Low Flow Showerhead	6	322
Low Flow Faucet Aerators	9	552
Toilet Flapper	3	251
Leak Detection Tablet Packets	6	328
Positive Shut-off Hose Nozzles	63	806
Water-efficient Plant Seed Packets	0	126
TOTAL	87	2,385

Table 1.5 – CUWCC SMART Rebate Program

Device Description	*Rebates Processed*	*Water Savings (in Acre Feet)*
High Efficiency Toilet (Residential)	0	0
High Efficiency Clothes Washer (Residential)	0	0
Ultra Low Flush Toilet (Commercial)	0	0
TOTAL	0	0
FY-to-Date	0	0
Program-to-Date (since March 2007)	1,040	479.32

Table 1.6 – HET Direct Install Program

Device Description	*Devices Installed*	*Water Savings (in Acre Feet)*
High Efficiency Toilet (Commercial)	1	0.941
TOTAL	1	0.941
*FY-to-Date	58	54.578
Program-to-Date (since February 2010)	387	364.167

Water Treatment, Production, and Distribution

Table 2.1 - Monthly Summary Coliform Monitoring – June 2013

Routine Samples	*# Required*	*# Taken*	*Total Coliform Positive*	*E. Coli Positive*
North System	121	121	0	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*				*Fire Protection 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							
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							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			x
SS5	Airport North			x	x		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	x							
Cal Wtr	Airport/Arch Airport	x							
Cal Wtr	El Dorado	x							
Cal Wtr	Filbert/Marsh	x							
Cal Wtr	Filbert/Miner	x							
Cal Wtr	M L King/Mariposa	x							
Cal Wtr	Pardee	x							
Cal Wtr	Pershing	x							
Cal Wtr	Zephyr	x							
Lathrop	Roth/Harlan	x							
SJ Cty	Greeley Wy	x							
SJ Cty	Grigsby Pl	x							
SJ Cty	Lincoln Rd	x							
SJ Cty	Misty Ln	x							
SJ Cty	Pershing Av	x							
SJ Cty	Plymouth Rd	x							
SJ Cty	Portola Av	x							
SJ Cty	Thornton Rd	x							

Table 2.3 – Production Summary Year 2012-2013 (in Million Gallons)

System	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Year to Date
No. Sys	104.84	35.06	88.07	73.64	44.49	76.92	62.01	91.30	104.90	139.42	139.77	135.24	1,095.66
So. Sys	12.10	1.65	0.05	0.07	1.97	6.36	3.24	25.77	19.06	0.61	1.14	0.05	72.07
DWTP	635.20	609.53	511.26	455.85	320.15	255.84	250.59	260.56	332.72	309.56	548.72	604.98	5,094.96
SEWD WP	9.35	8.54	6.86	6.90	4.07	5.30	4.69	4.26	5.70	17.56	7.73	8.32	89.28
SEWD/North	594.59	620.46	522.32	323.88	127.67	70.30	83.68	89.39	216.97	314.85	371.20	415.46	3,750.77
SEWD/South	227.41	229.70	221.41	213.64	118.18	48.40	59.80	70.28	151.06	197.35	230.90	233.02	2,001.15
Total	**1,583.49**	**1,504.94**	**1,349.97**	**1,073.98**	**616.53**	**463.12**	**464.01**	**541.56**	**830.41**	**979.35**	**1,299.46**	**1,397.07**	**12,103.89**

Production Summary Comparison Year 2011-2012 (in Million Gallons)

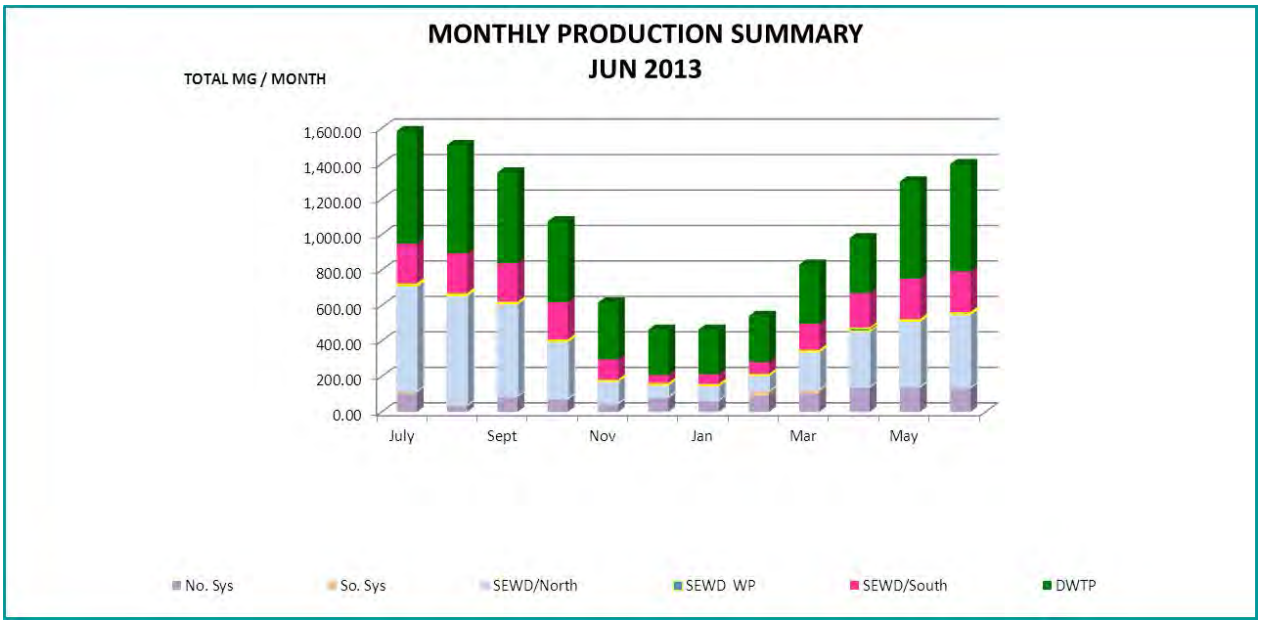
System	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Year to Date
No. Sys	340.26	288.87	226.10	21.05	10.30	21.53	15.83	57.18	74.02	121.74	168.71	188.49	1,534.08
So. Sys	1.41	0.14	3.88	1.01	0.64	0.09	0.06	10.18	7.76	11.86	1.13	3.51	41.67
DWTP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	59.25	268.07	327.32
SEWD WP	8.59	7.54	9.30	7.14	5.71	4.97	5.50	5.19	5.54	5.34	7.17	8.49	80.47
SEWD/North	840.54	884.98	848.48	759.31	571.52	491.67	501.22	455.63	480.90	476.99	830.85	712.46	7,854.55
SEWD/South	319.29	327.26	298.17	225.01	153.07	141.81	169.74	142.35	118.46	138.97	222.77	220.96	2,477.86
Total	**1,510.09**	**1,508.79**	**1,385.93**	**1,013.52**	**741.24**	**660.07**	**692.35**	**670.53**	**686.68**	**754.90**	**1,289.88**	**1,401.98**	**12,315.95**

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 Year 2012-2013 (in Million Gallons)

	JUL	*AUG*	*SEP*	*OCT*	*NOV*	*DEC*	*JAN*	*FEB*	*MAR*	*APR*	*MAY*	*JUN*	*YTD*
DWTP Influent by Source													
San Joaquin River/Delta	355.26	288.99	77.38	402.40	320.82	257.18	248.05	256.39	63.58	0	0	0	2,270.05
Mokelumne River/WID	281.71	326.76	430.66	41.31	0	0	0	0	270.96	315.78	544.39	575.23	2,786.80
Reclaimed	37.94	33.52	35.56	31.30	27.33	21.77	21.00	21.3	26.33	25.08	36.38	35.18	352.69
Total Influent (DWTP), MG	674.91	649.27	543.60	475.01	348.15	278.95	269.05	277.69	360.87	340.86	580.77	610.41	5,409.54

Figure 2.A – Production Summary



Production Summary Comparison Year 2011-2012

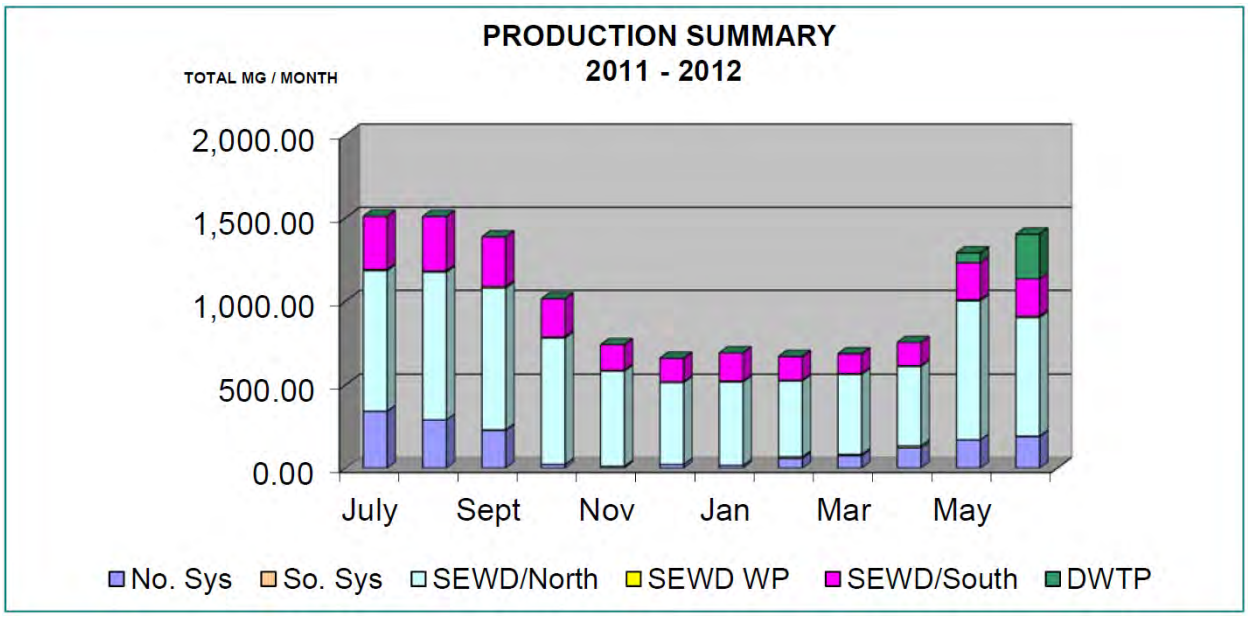


Table 2.4 – City of Stockton Water Systems –Production Summaries

	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	YTD
Production													
City System Potable Water Production													
City North System Wells	104.84	35.06	88.07	73.64	44.49	76.92	62.01	91.27	104.90	139.42	139.77	135.24	1,095.63
City South System Wells	12.10	1.65	0.05	0.07	1.97	6.36	3.24	25.77	19.06	.61	1.14	0.05	72.07
Delta Water Treatment Plant	635.20	609.53	511.26	455.85	320.15	255.84	250.59	260.56	332.72	309.56	548.72	604.98	5,094.96
MLK Diamond & Filbert Interconnect (SEWD) City Walnut System	9.35	8.54	6.86	6.90	4.07	5.30	4.69	4.26	5.70	17.56	7.73	8.32	89.28
Stockton East Water District (SEWD) City / County North System	594.59	620.46	522.32	323.88	127.67	70.30	83.68	89.39	216.97	314.85	371.20	415.46	3,750.77
Stockton East Water District (SEWD) City South System	227.41	229.70	221.41	213.64	118.18	48.40	59.80	70.28	151.08	197.35	230.90	233.02	2,001.17
Total City System, MG	1,583.49	1,504.94	1,349.97	1,073.98	616.53	463.12	464.01	541.53	830.43	979.35	1,299.46	1,397.07	12,103.88
System – Nonpotable Water Production													
Recycle Water (Reclaimed WW) Million Gallons	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Production	1,583.49	1,504.94	1,349.97	1,073.98	616.53	463.12	464.01	541.53	830.43	979.35	1,299.46	1,397.07	10,706.81

2011-2012 –Production Summaries

	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	YTD
Production													
City System Potable Water Production													
City North System Wells	340.26	288.87	226.10	21.05	10.30	21.53	15.83	57.18	74.02	121.74	168.71	188.49	1,534.08
City South System Wells	1.41	0.14	3.88	1.01	0.64	0.09	0.06	10.18	7.76	11.86	1.13	3.51	41.67
Delta Water Treatment Plant	0	0	0	0	0	0	0	0	0	0	59.25	268.07	327.32
MLK Diamond & Filbert Interconnect (SEWD) City Walnut System	8.59	7.54	9.30	7.14	5.71	4.97	5.50	5.19	5.54	5.34	7.17	8.49	80.47
Stockton East Water District (SEWD) City / County North System	840.54	884.98	848.48	759.31	571.52	491.67	501.22	455.83	480.90	476.99	830.85	712.46	7,854.75
Stockton East Water District (SEWD) City South System	319.29	327.26	298.17	225.01	153.07	141.81	169.74	142.35	118.46	138.97	222.77	220.96	2,477.86
Total City System, MG	1,510.09	1,508.79	1,385.93	1,013.52	741.24	660.07	692.35	670.73	686.68	754.90	1,289.88	1401.98	12,316.15
System – Nonpotable Water Production													
Recycle Water (Reclaimed WW) Million Gallons	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Production	1,510.09	1,508.79	1,385.93	1,013.52	741.24	660.07	692.35	670.73	686.68	754.90	1,289.88	1401.98	12,316.15

Table 2.5 – City of Stockton Water Systems –Consumption Summaries

	JUL	*AUG*	*SEP*	*OCT*	*NOV*	*DEC*	*JAN*	*FEB*	*MAR*	*APR*	*MAY*	*JUN*	*YTD*
City System - Metered Consumption													Through previous month
Single-Family Residential	787.34	776.55	752.21	660.81	503.61	304.10	294.56	265.91	338.81	423.95	551.61		5,659.46
Multi-Family Residential	104.37	104.77	105.01	91.93	85.45	60.47	63.50	58.85	63.08	68.36	80.06		885.85
Commercial / Institutional	194.15	166.46	186.33	170.94	116.79	72.77	67.73	69.05	87.42	112.37	142.06		1,386.07
Irrigation	185.93	189.82	180.22	223.05	79.11	33.27	17.07	13.20	35.79	70.75	111.49		1,139.70
Non-Potable Water	0	0	0	0	0	0	0	0	0	0	0		0
Construction/Hydrant/Jumpers/Load Counts	1.60	1.32	1.60	1.27	0.21	.04	.14	0.14	.39	.25	.34		7.30
Other (Industrial)	18.29	19.73	16.89	16.16	18.90	12.46	11.70	11.20	16.45	18.59	17.90		178.27
Subtotal Metered Consumption, MG	1,291.68	1,258.65	1,242.26	1,164.16	804.07	483.11	454.70	418.35	541.94	694.27	903.46		9,256.65
City System - Unmetered Consumption													
Main Line / Service Repair Losses	0.21	0.22	0.16	0.20	0.38	0.12	0.15	0.06	0.07	0.03	0.04	0.08	1.72
Commercial/Residential Construction Usage	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.12
City Trucks / Parks Trucks / St. Sweepers	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.08	0.31	0.30	0.46	1.23
Hydrant / Blow Off Flushing	0.01	0.01	0.01	0.02	0.01	0.11	0.01	0.03	0.01	0.01	0.01	0.30	0.54
System Flushing	0	0	0	0	0	0	0	9.20	3.20	0.75	0.01	0.01	13.17
City Fire Dept. Fire Flow	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
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 Consumption, MG	0.26	0.27	0.21	0.26	0.43	0.27	0.20	9.33	3.39	1.13	0.15	0.88	17.02
Total City System Consumption, Mg	1,291.94	1,258.92	1,242.47	1,164.42	804.50	483.38	454.90	427.68	545.33	695.40	903.61	N/A	9,272.79
Water Wheeled and Wholesaled (SJ County Interconnects)													
Metered to San Joaquin County	97.94	88.48	82.53	58.49	33.65	26.49	27.17	27.88	41.77	54.24	55.33	103.75	697.72
Total Wheeled and Wholesaled	97.94	88.48	82.53	58.49	33.65	26.49	27.17	27.88	41.77	54.24	55.33	103.75	697.72

2011-2012 – Monthly Consumption Summaries

	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	YTD
City System - Metered Consumption													Through previous month
Single-Family Residential	718.43	699.70	744.35	608.68	471.96	352.86	338.64	298.30	347.53	333.77	441.55	678.59	6,034.36
Multi-Family Residential	93.47	97.85	102.31	88.91	79.20	70.28	66.74	60.72	67.39	65.96	69.05	94.07	955.95
Commercial / Institutional	162.57	181.11	183.62	154.35	103.40	78.02	69.89	78.40	82.63	88.82	107.72	181.32	1,471.85
Irrigation	159.48	153.37	166.82	135.03	79.20	36.92	18.82	30.01	36.69	42.36	72.88	148.88	1,080.46
Non-Potable Water	0	0	0	0	0	0	0	0	0	0	0	0	0
Construction/Hydrant/Jumpers/Load Counts	7.57	9.21	3.37	1.78	0.34	0.38	.47	.35	.18	.42	2.40	1.60	28.07
Other (Industrial)	19.48	18.59	18.56	18.24	14.05	13.06	9.57	19.90	18.80	21.57	17.27	20.33	209.42
Subtotal Metered Consumption, MG	1,161.00	1,159.83	1,219.03	1,006.99	748.15	551.52	504.13	487.68	553.22	552.90	710.87	1,124.79	9,780.11
City System - Unmetered Consumption													
Main Line / Service Repair Losses	0.01	0.34	0.20	0.43	1.18	0.25	0.14	0.05	0.33	0.12	0.18	0.09	3.32
Commercial/Residential Construction Usage	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.12
City Trucks / Parks Trucks / Street Sweepers	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
Hydrant / Blow Off Flushing	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0	0.01	0.11
System Flushing	0	0	0	0	0	0	0	11.8	4.2	0	0	0	16.0
City Fire Dept. Fire Flow	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
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 Consumption, MG	0.06	0.39	0.25	0.48	1.23	0.30	0.19	11.90	4.58	0.17	0.22	0.14	19.91
Total City System Consumption, Mg	1,161.06	1,160.22	1,219.28	1,007.47	749.38	551.82	504.32	499.58	557.80	553.07	711.09	1,124.93	9,800.02
Water Wheeled and Wholesaled (SJ County Interconnects)													
Metered to San Joaquin County	79.48	83.14	73.78	56.40	37.70	34.75	35.26	32.14	36.13	39.30	72.18	78.97	659.23
Total Wheeled and Wholesaled	79.48	83.14	73.78	56.40	37.70	34.75	35.26	32.14	36.13	39.30	72.18	78.97	659.23

Table 2.6 – Chemical Consumption Summary

Water Production System Chemical Consumption	*JUL*	*AUG*	*SEP*	*OCT*	*NOV*	*DEC*	*JAN*	*FEB*	*MAR*	*APR*	*MAY*	*JUN*	*YTD*
North Wells													
Chlorine Gas, Lbs.	776	549	597	513	340	976	904	727	577	956	1,133	1,180	9,228
South Wells													
Chlorine Gas, Lbs.	199	213	161	147	99	232	271	366	260	45	120	116	2,229
Delta Water Treatment Plant													
Liquid Oxygen, Gal.	10,393	9,342	6,476	6,858	6,790	14,558	36,720	11,009	9,652	4,555	6,998	8,633	131,984
Sodium Hypochlorite, Gal.	21,814	29,519	15,987	15,172	16,637	12,132	10,472	8,771	9,672	7,487	10,830	15,771	174,264
Sodium Hydroxide (Caustic Soda), Gal.	9,533	17,078	10,445	10,309	13,370	24,619	22,233	18,653	9,152	2,958	10,687	20,093	169,130
Aluminum Chlorohydrate (ACH), Gal.	7,163	5,804	2,876	2,335	1,768	6,853	9,983	7,239	3,951	2,834	2,521	3,765	57,092
Corrosion Inhibitor, Gal.	956	950	705	649	327	222	307	388	482	423	833	890	7,132
Citric Acid, Gal.	80	59	99	62	121	71	62	67	81	77	87	86	952
Sulfuric Acid, Gal.	145	37	102	82	80	66	58	55	75	66	107	106	979
Sodium Bisulfite, Gal.	60	15	18	88	58	26	15	44	42	17	30	38	451

2011-2012 – Chemical Consumption Summary

Water Production System Chemical Consumption	*JUL*	*AUG*	*SEP*	*OCT*	*NOV*	*DEC*	*JAN*	*FEB*	*MAR*	*APR*	*MAY*	*JUN*	*YTD*
North Wells													
Chlorine Gas, Lbs.	1,535	1,374	1,164	255	95	165	68	293	316	528	907	935	7,635
South Wells													
Chlorine Gas, Lbs.	153	128	126	69	59	32	38	82	67	136	170	162	1,222

Table 2.7 – Utility Consumption Summary

Water Production System Utility Consumption	*JUL*	*AUG*	*SEPT*	*OCT*	*NOV*	*DEC*	*JAN*	*FEB*	*MAR*	*APR*	*MAY*	*JUN*	*YTD*
North Wells													
Electricity, KWH	343,748	139,334	268,956	175,035	117,368	165,992	179,012	191,099	208,442	252,374	288,662	275,223	2,605,245
Natural Gas, 1000 ft^3	8	18	3	1	0	0	1	4	53	2.4	2.4	104	196.8
South Wells													
Electricity, KWH	32,952	26,230	20,960	19,756	14,649	26,005	30,383	54,196	40,882	13,941	19,257	193	299,344
Natural Gas, 1000 ft^3	1	25	0	0	3	0	0	4	46	0	1	0	80
Delta Water Treatment Project*													
Electricity Used, KWH (Intake)	109,440	99,200	12,320	76,000	71,040	76,000	80,640	56,960	320	1,600	4,000	53,280	640,800
Electricity Used, KWH (Treatment Plant)	724,000	744,000	714,000	526,000	398,000	326,000	302,000	380,000	390,000	434,000	890,000	*	5,828,000
Electricity Generated, KWH (Solar)	(11,980)	(15,695)	(13,204)	(9,620)	(8,362)	(5,604)	(8,770)	(11,451)	(15,431)	(20,136)	(21,767)	(21,000)	(163,020)
DWTP Net Electricity Used, KWH	821,460	827,505	713,116	592,380	460,678	396,396	373,870	425,509	374,889	415,464	872,233	32,280	6,305,780
Water Production System Utility Outages													
North Wells													
Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
Natural Gas	0	0	0	0	0	0	0	0	0	0	0	0	0
South Wells													
Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
Natural Gas	0	0	0	0	0	0	0	0	0	0	0	0	0
Description of Outages	None	None	None	None	None	None	None	None	None	None	None	None	None

* June 2013 power consumption data for DWTP not received in time for report.

2011-2012 – Utility Consumption Summary

Water Production System Utility Consumption	*JUL*	*AUG*	*SEPT*	*OCT*	*NOV*	*DEC*	*JAN*	*FEB*	*MAR*	*APR*	*MAY*	*JUN*	*YTD*
North Wells													
Electricity, KWH	491,854	446,652	358,594	77,230	52,469	84,237	75,874	123,661	143,495	199,665	296,733	321,321	2,671,785
Natural Gas, 1000ft^3	60	139	8	2	1	0	0	12	0	1.3	0.4	2	225.70
South Wells													
Electricity, KWH	16,029	18,792	20,196	9,472	11,449	14,001	15,863	25,182	22,935	24,377	17,070	21,772	217,138
Natural Gas, 1000ft^3	0	34	6	1	0	3	0	0	0	0	0	0	44
Water Production System Utility Outages													
North Wells													
Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
Natural Gas	0	0	0	0	0	0	0	0	0	0	0	0	0
South Wells													
Electricity	0	0	0	0	0	0	0	0	0	0	0	0	0
Natural Gas	0	0	0	0	0	0	0	0	0	0	0	0	0
Description of Outages	None	None	None	None	None	None	None	None	None	None	None	None	---

Table 2.8 – Service Connections

Meters Applied to Routes- Current Month	*5*
Meters Applied to Routes - Fiscal Year-to-Date	87
Total Number of Service Meters in Water System (Active + Inactive)	48,557

Table 2.9 – Number of Active Service Meters in Water System - By Size

Meter Size	*Residential*	*Industrial*	*Commercial/ Institutional*	*Irrigation*
5/8-inch	1,792	0	14	16
3/4-inch	25,001	14	214	84
1-inch	18,087	0	244	141
1-1/2-inch	254	0	227	164
2-inch	256	1	599	433
3-inch	13	0	66	24
4-inch	6	3	46	20
6-inch	5	1	18	2
8-inch	0	0	5	0
10-inch	0	0	2	0
12-inch	0	0	2	0
TOTALS	45,414	19	1,442	884

Table 2.10 – Water Quality Inquiry Summary

Inquiry	*Quantity*	*Follow-up Action*
Taste / Odor	1	-1- Complaint of "smelly" water in kitchen sinks only. Operator didn't notice any taste or odor problem. Operator advised customer to use bleach to clean sinks and disposal.
Color	1	-1- Complaint of purple water. Hydrant use in the area. Operator flushed lines and water cleared.
Turbidity	0	None
Suspended Solids	0	None
OTHER		
Pressure	4	-1- Complaint of low pressure. House valve partially closed. Operator spoke with customer and pressure is back to normal. -1- Complaint of low pressure in sprinkler system. Operator found meter valve partially closed. Opened valve and pressure normal. -1- Complaint of low pressure. Outside pressure/volume normal. Possible inside problem due to water softener. Operator spoke to customer. -1- Complaint of low pressure in sinks. Operator spoke to customer. Customer to clean aerators.
Sediment	0	None
Air	0	None
Sand	0	None
Miscellaneous	0	None
Inquiry	0	None

Table 2.11 – 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	48,557
Number of Check Reads (All Routes)	279
Number of Service Turn-on/Turn-offs	1,192

Table 2.12 – Cross Connection Control Program

	Scheduled to be Tested	*Tested*	*Remaining to be Tested*	*% Tested*
Backflow Devices Tested	261	170	91	65%

Table 2.13 – Cross Connection Control Program Surveys

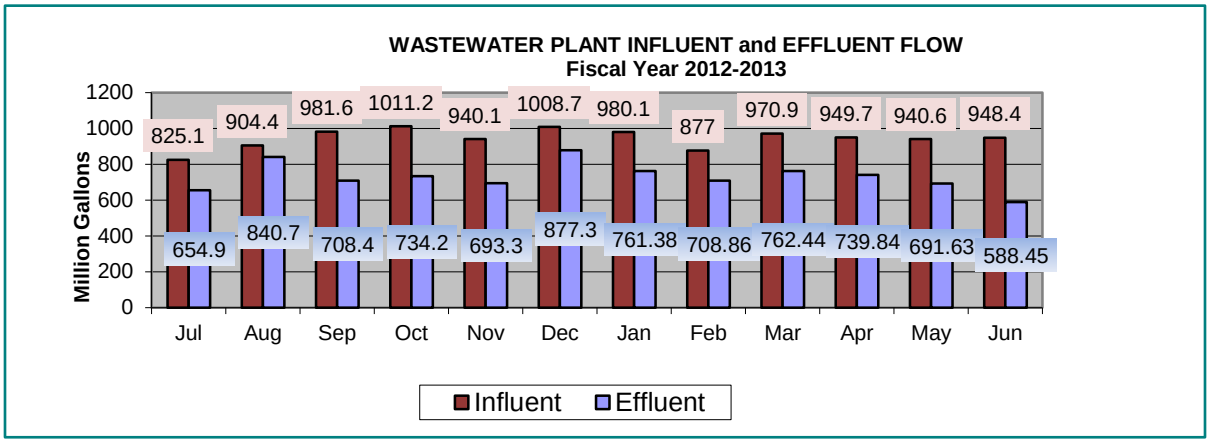
	Surveyed	*Surveyed Fiscal Year-to-Date*
Customer Connections Surveyed	2	137

Wastewater Treatment

Table 3.1 – Summary of Influent and Effluent Parameters

Influent Parameters	*Actual Month Average*	
Flow, MGD	31.6	
cBOD, mg/L	320	
TSS, mg/L	340	
Effluent Parameters	Actual Month Average	NPDES Permit Limit Monthly Average
Flow, MGD	19.6	55 Average Dry Weather Flow
cBOD, mg/L	<2.0	10
cBOD Removal, %	>99.6	85
TSS, mg/L	<2.7	10
TSS Removal, %	> 99.5	85
Ammonia, mg/L	<0.5	2 Daily max is 5
Turbidity (NTU)	1.2 0.6 –2.4	2 (daily average) Daily max limit > 5 NTU no more than 3 mins/hr or 72 mins/24 hr run time
pH, standard units (Min/Max)	6.6-8.4	6.5 – 8.5
DO, mg/L (Min. Daily Average)	7.5	5.0 December 01 thru Aug 31
Ponds, Free Board, feet (Daily Ave)	2.44-3.70	>= Two (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 2011-2012

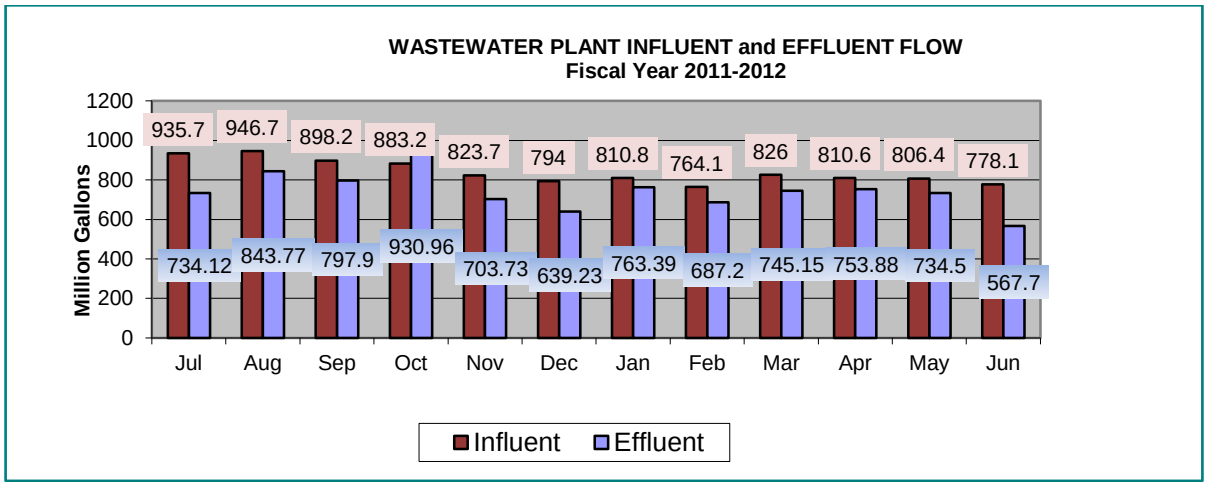
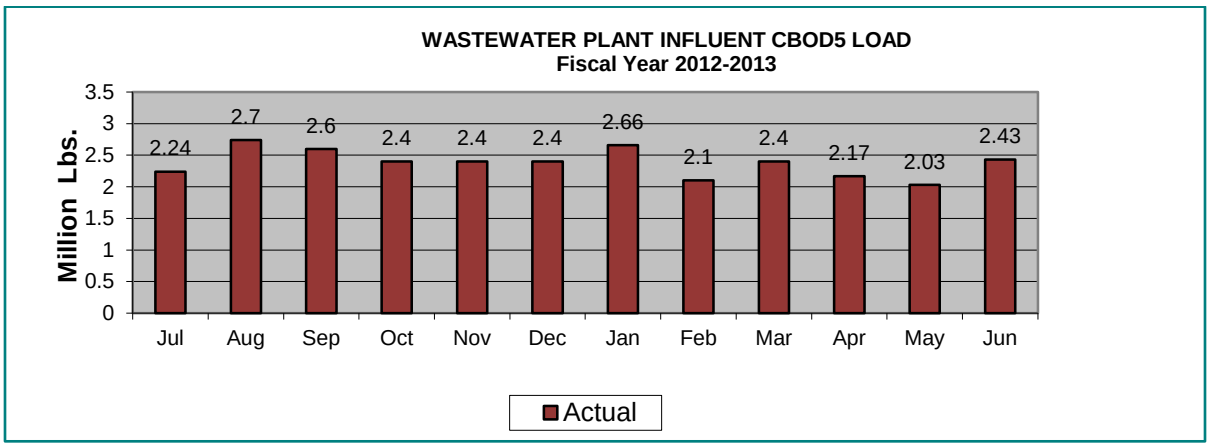


Figure 3.B – Wastewater Plant Influent CBOD5 Load



Wastewater Plant Influent CBOD5 Load Comparison Year 2011-2012

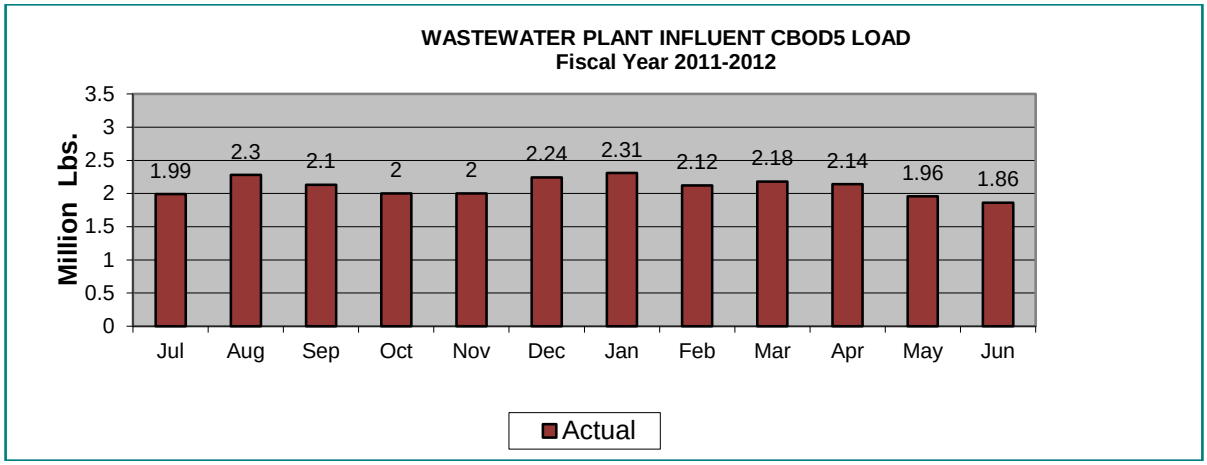
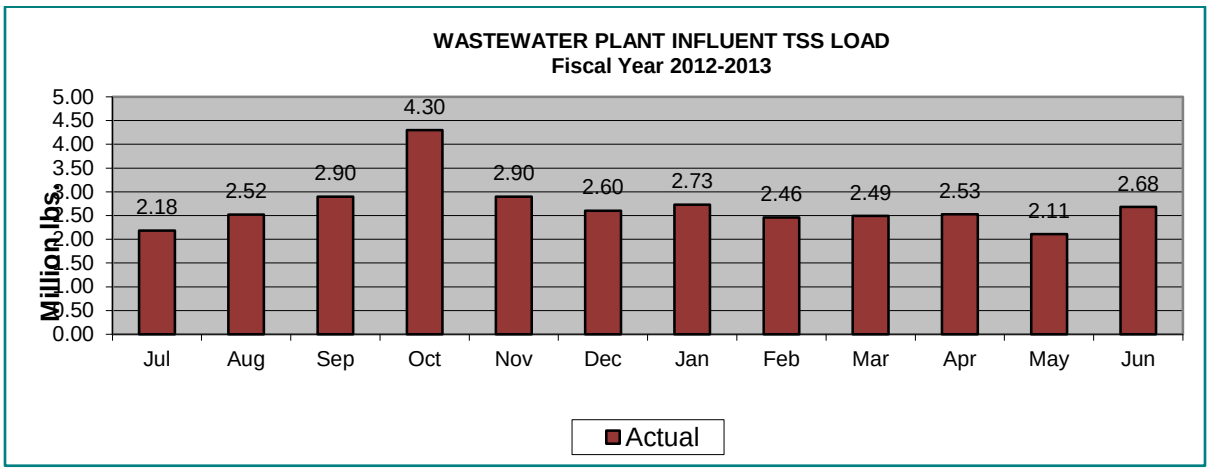


Figure 3.C – Wastewater Plant Influent TSS Load



Wastewater Plant Influent TSS Load Comparison Year 2011-2012

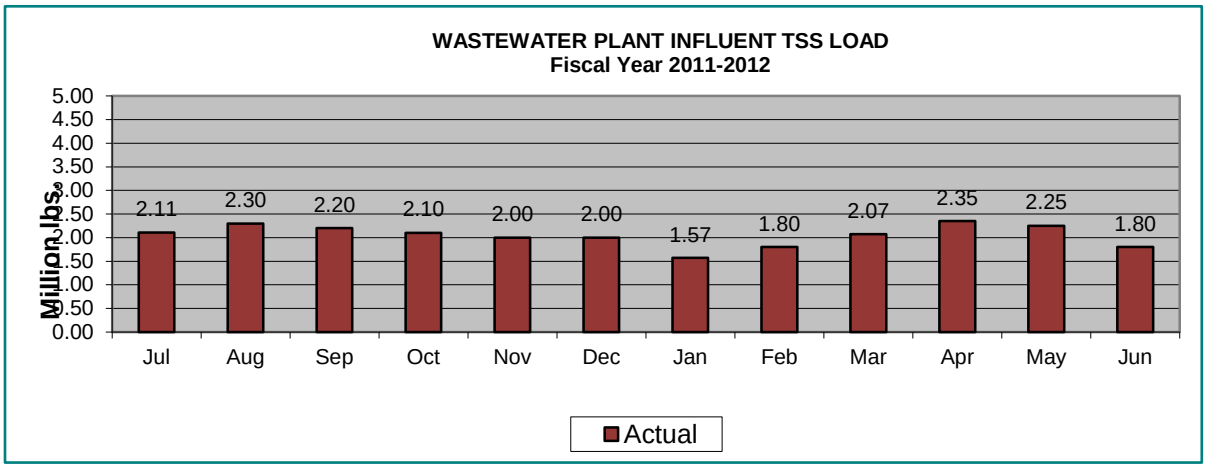
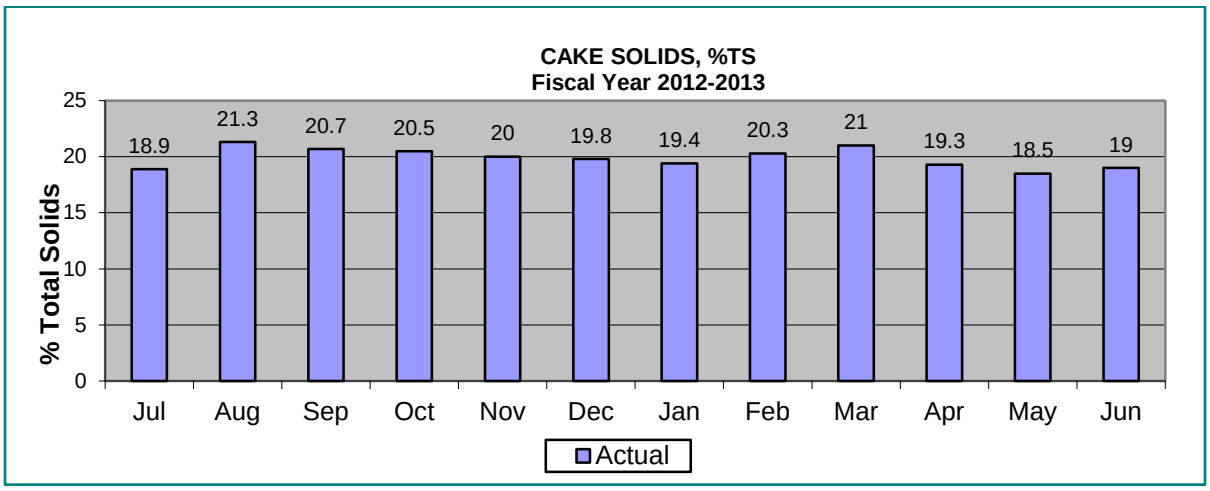


Table 3.2 – Residuals and Chemical Management Summary for Biosolids

Residuals and Chemical Management Summary	*Current Month*	*Fiscal Year-to-Date*
Digester Biosolids		
Total Feed, gals.	4,435,600	58,534,112
Total Gas Production, CuFt.	16,211,600	225,245,416
Sludge Lagoon, gals.	0	35,473,547
Ferric Chloride, gal.	3,221	64,246
Ferric Chloride (EPT), lbs.	14,646	135,438
Dewatered Biosolids		
Total Feed, gals.	3,521,276	30,468,632
Polymer, lbs.	88,784	771,691
Cake, Wet Tons	1,852	16,452
Biosolids Truck Loads Hauled	76	680

Figure 3.D – Cake Solids



Cake Solids Comparison Year 2011-2012

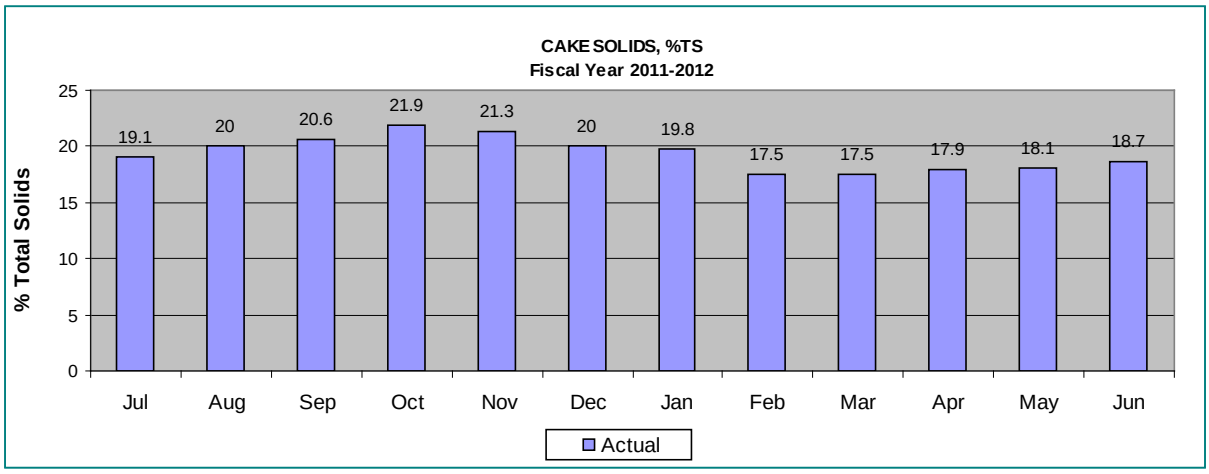


Table 3.3 – Summary of Tertiary Pond Operating Levels

Tertiary Pond	*Start Freeboard*	*End Freeboard*	*Average Freeboard*	*Reserve Capacity (Million Gallons)*
Pond #1 (190 ac.)	2.41	2.15	2.44	133.11
Pond #2 (135 ac.)	3.7	3.36	3.7	136.86
Pond #3 (125 ac.)	3.45	3.05	3.44	134.17
			Total	404.14
			Total Reserve Days	21.74

Table 3.4 – Chemical Consumption Summary – Tertiary Facility

Chemical Used	*JUL*	*AUG*	*SEP*	*OCT*	*NOV*	*DEC*	*JAN*	*FEB*	*MAR*	*APR*	*MAY*	*JUN*	*Fiscal YTD*
Chlorine Gas, lbs.	36,231	45,225	36,072	36,288	33,066	34,680	37,046	32,728	39,054	37,744	39,351	37,295	444,780
Sulfur Dioxide, lbs.	31,400	37,400	29,800	30,544	29,936	30,962	25,891	31,515	36,828	34,100	33,200	28,700	380,276
Aluminum Sulfate, gals.	0	0	0	0	0	0	0	0	0	0	0	0	0
Caustic Soda, lbs.	147	0	0	1,524	6,657	5,531	2,605	9,090	7,540	3,412	12,998	6,751	56,255
Aqueous Ammonia, gals.	6,999	13,602	6,920	9,420	5,873	4,787	565	344	6,483	9,283	10,170	9,627	84,073
Polymer, lbs	308,879	406,236	329,733	299,228	296,580	342,592	518,562	501,526	486,627	451,098	353,923	134,201	4,429,185

Comparison Year 2011-2012 - Chemical Consumption Summary – Tertiary Facility

Chemical Used	*JUL*	*AUG*	*SEP*	*OCT*	*NOV*	*DEC*	*JAN*	*FEB*	*MAR*	*APR*	*MAY*	*JUN*	*Fiscal YTD*
Chlorine Gas, lbs.	43,725	42,809	38,034	41,761	30,489	37,385	41,828	31,871	32,878	38,577	36,789	32,589	410,701
Sulfur Dioxide, lbs.	35,933	38,301	34,400	37,500	26,300	19,711	25,200	28,320	32,100	40,600	37,400	28,350	349,715
Aluminum Sulfate, gals.	6,107	0	0	0	0	0	0	21,318	22,788	0	0	0	50,213
Caustic Soda, lbs.	0	0	0	0	27,328	6,114	12,861	14,461	6,771	6,279	53	377	74,244
Aqueous Ammonia, gals.	9,861	11,849	8,868	12,895	5,918	88	5,838	1,547	7,728	10,607	69,480	51,103	186,915
Polymer, lbs	268,560	385,316	299,221	92,607	200,038	276,842	353,145	339,695	332,989	594,311	557,016	341,666	3,742,185

Table 3.5 – Utility Consumption

	Current Month	*Fiscal YTD*
Electricity		
Main Facility Total Usage, KW	1,560,846	44,905,911
Tertiary Facility Total Usage, KW	420,600	6,757,223
Total Facility Usage, KW	1,981,446	51,663,134
PG&E, Purchased, KW	1,448,150	39,435,348
Co-Generation Production, KW	533,296	12,227,786
Total Facility Prod/Purch, KW	1,981,446	51,663,134
Natural Gas		
Co-Generation Fuel, Therms	62,750	974,960
Building HVAC Fuel, Therms	1.12	130.04
Methane Gas, Digester Production, CuFt	16,211,600	223,826,699
Methane Gas, Digester Production, Therms	96,751	1,417,642
Water		
Wastewater Facilities, total usage, gallons	1,209,300	28,939,288

Table 3.6 – Maintenance Work Order Summary

Maintenance Work Orders	*Corrective Maintenance*	*Corrective Maintenance % Completed*	*Corrective Maintenance % Backlog*	*Preventive Maintenance % Backlog*
Main Treatment Facility				
Main Plant Mechanical	75	40	60	45.7
Main Plant Electrical	17	47.1	52.9	2.7
Main Plant Engines	N/A	N/A	N/A	N/A
Tertiary Treatment Facility				
Tertiary Plant Mechanical	17	58.8	41.2	43.9
Tertiary Plant Electrical	21	90.5	9.5	42.4

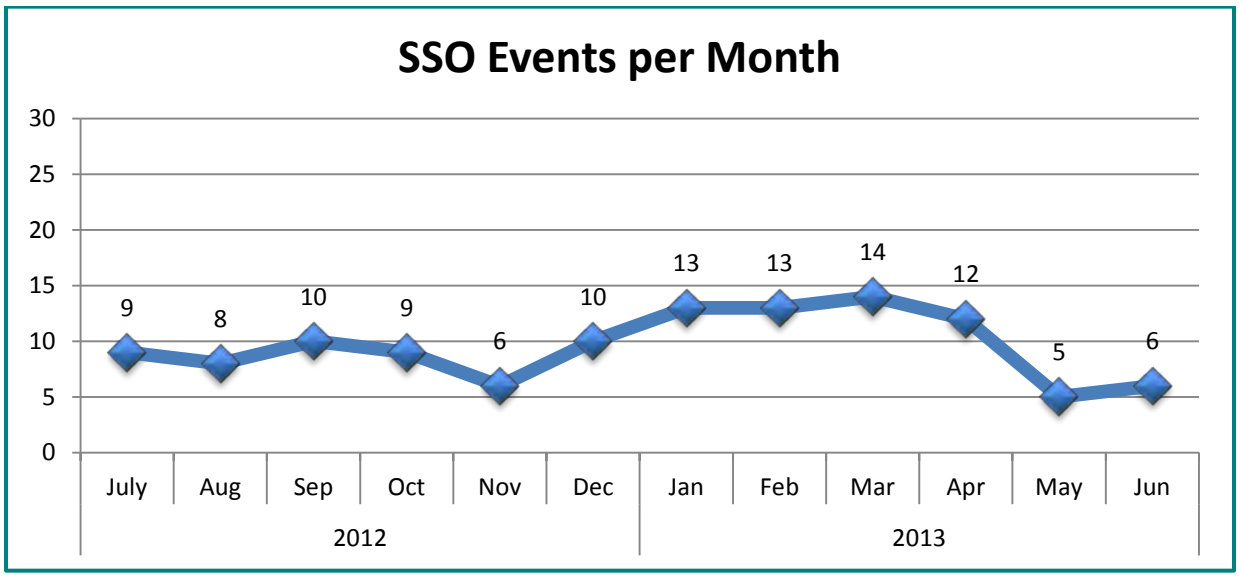
Wastewater Collection Systems

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
SSO Summary (Category 1, greater than 1,000 gallons or discharge to waters of the State)								
NONE								
SSO Summary (Category 2, reached a storm drain, storm manhole, storm catch basin or storm pump station wet well)								
NONE								
SSO Summary (Category 2, otherwise contained)								
4-Jun	8483 Lorraine Ave	22	22	0	Debris	Gutter	Lateral	4"
5-Jun	201 Glacier Ct.	78	78	0	Roots	Gutter	Lateral	4"
10-Jun	2316 Chapelhill Cr.	60	60	0	Debris	Gutter	Lateral	4"
11-Jun	3749 Estate Dr.	101	101	0	Debris	Gutter	Lateral	4"
18-Jun	26 South B St.	13	13	0	Debris	Gutter	Lateral	4"
28-Jun	124 Glacier Ct.	6	6	0	Roots	Gutter	Lateral	4"
Private Spills								
13-Jun	411 Burkett Ave	1	1	0	Debris	Gutter	Lateral	4"
17-Jun	627 Sutterland Dr	80	80	0	Debris	Gutter	Lateral	4"
17-Jun	1025 Robinhood Dr	10	10	0	Grease	Maintenance hole	Lateral	4"

Total Public SSO Events	6	Total Gallons	280
Total Private Spills	3	Total Gallons	91
Total Public & Private Spill Events	9	Total Gallons	371

Figure 4.A – Public Sanitary Sewer Overflow Events



Public Sanitary Sewer Overflow Events - Comparison Year 2011-2012

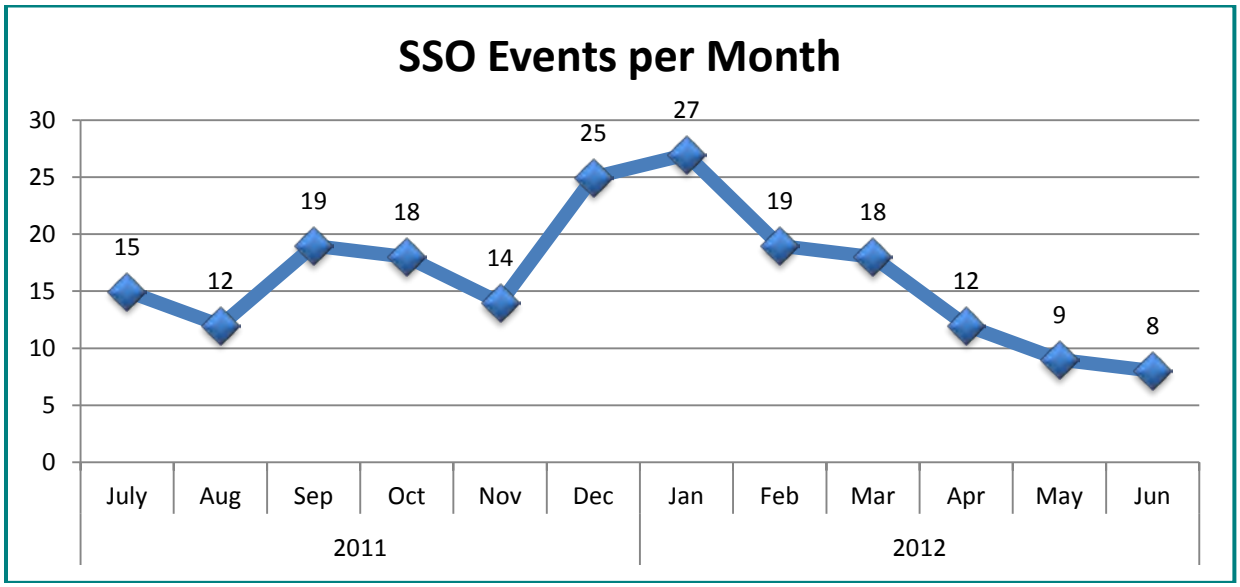
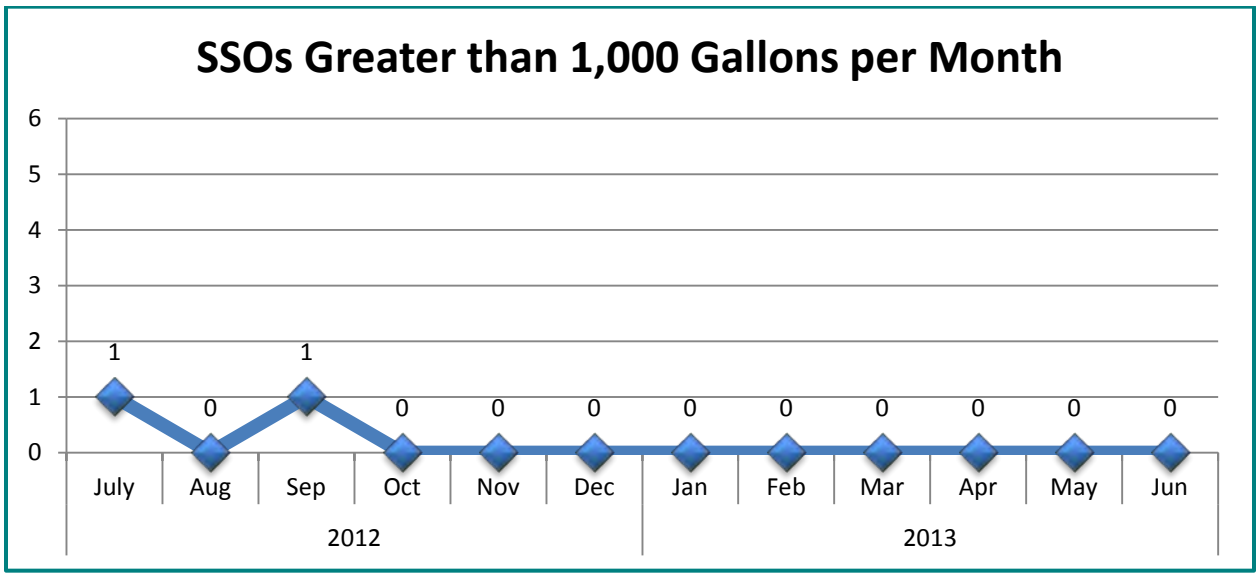


Figure 4.B – Public SSOs Greater than 1,000 gallons – Events



Public SSOs Greater than 1,000 gallons Events – Comparison Year 2011-2012

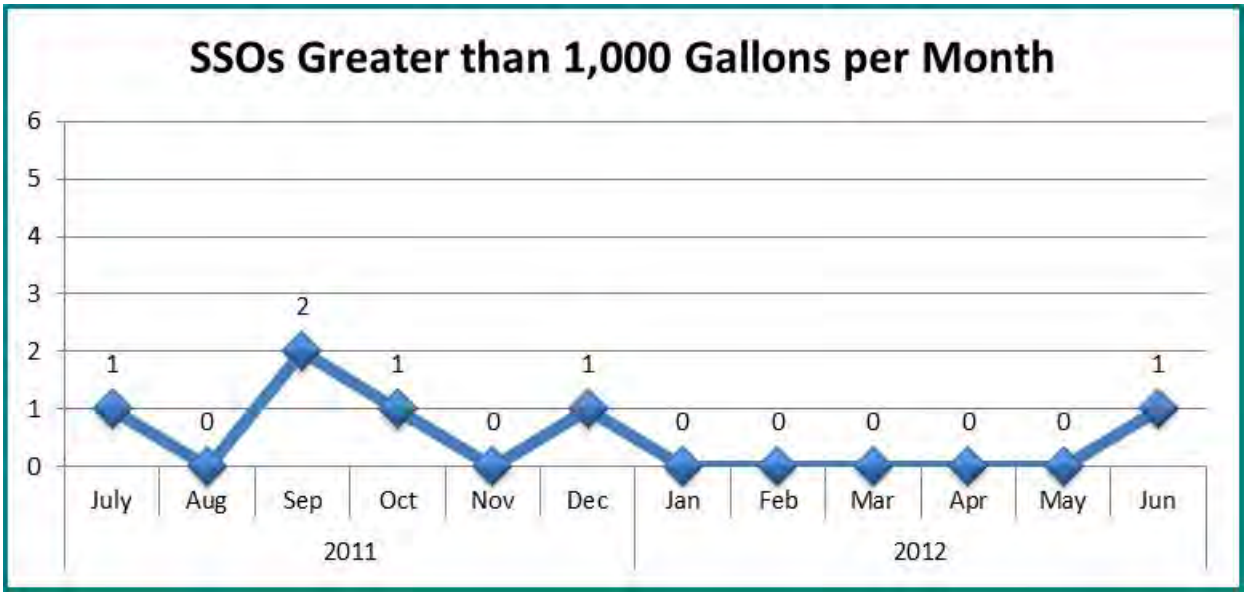
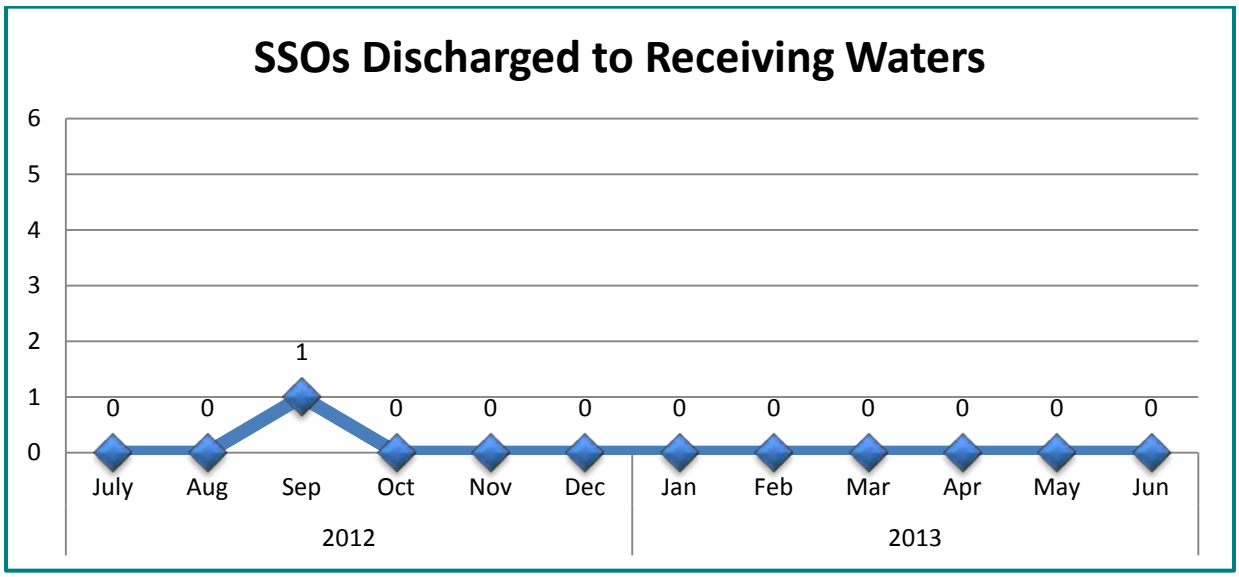


Figure 4.C – Public Sanitary Sewer Overflows Discharged to Receiving Water



Public Sanitary Sewer Overflows Discharged to Receiving Water – Comparison Year 2011-2012

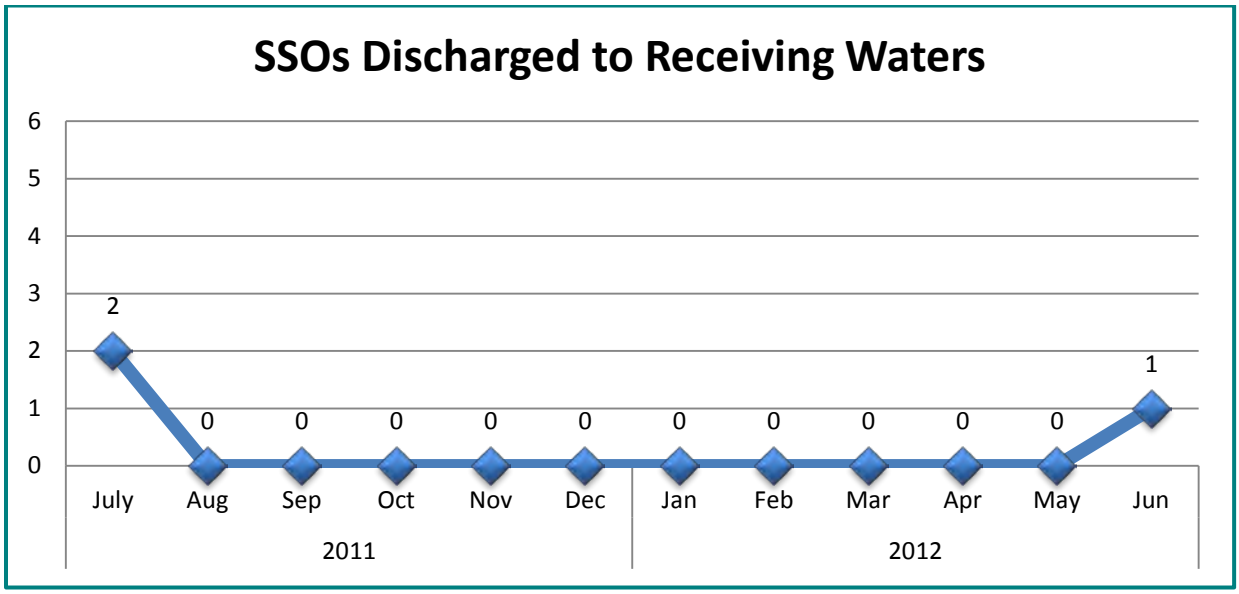


Table 4.2 – Sewer Maintenance Activity Summary

	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	FISCAL YTD
Repairs – Sewer													
# of Lateral Repairs	10	24	23	7	14	21	24	11	15	20	17	22	208
Lateral Repairs, Linear Feet	55	93	171	46	71	149	105	36	101	150	98	75	1,150
# of Main Line Repairs	5	4	2	2	2	2	2	2	1	5	4	6	37
Main Line Repairs, Linear Feet	17	17	0	11	6	25	8	30	6	19	23	26	188
Maintenance Hole Repair/New	4	13	5	4	3	7	10	23	16	4	11	12	112
Sewer Taps	1	0	1	0	0	0	0	0	0	0	0	0	2
Maintenance – Sewer													
# of Main Line Segments Jetted	628	707	516	625	445	231	824	1,090	725	1,116	1,219	952	9,078
Main Line Linear Feet Jetted	173,690	209,485	147,668	179,658	135,726	45,662	257,991	322,954	211,162	318,338	319,976	243208	2,565,518
# of Main Line Segments Rodded	41	67	46	47	16	16	51	28	25	35	20	11	373
Main Line Linear Feet Rodded	13,466	20,838	15,692	13,797	4,888	5,242	11,707	9,288	8,093	11,870	22,074	3,118	140,073
Laterals Foamed	148	132	95	93	47	52	45	142	123	143	78	118	1,216
Laterals Foamed, Linear Feet	7,400	6,600	4,750	4,650	2,350	2,600	2,250	7,100	6,150	7,150	2,900	5,900	59,800

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

Comparison Year 2011-2012 – Sewer Maintenance Activity Summary

	JUL	*AUG*	*SEP*	*OCT*	*NOV*	*DEC*	*JAN*	*FEB*	*MAR*	*APR*	*MAY*	*JUN*	*FISCAL YTD*
Repairs – Sewer													
# of Lateral Repairs	15	15	21	10	11	21	19	26	25	19	30	38	250
Lateral Repairs, Linear Feet	141	94	181	71	102	159	178	182	375	160	186	56	1,885
# of Main Line Repairs	2	1	3	3	3	5	7	6	25	4	7	9	75
Main Line Repairs, Linear Feet	8	0	11	2	31	21	30	40	199	26	50	52	469
Maintenance Hole Repair/New	3	5	3	2	5	1	1	4	33	12	18	7	94
Sewer Taps	1	1	0	0	0	0	1	0	0	1	0	2	5
Maintenance – Sewer													
# of Main Line Segments Jetted	603	610	719	609	544	479	690	605	646	952	724	582	7,763
Main Line Linear Feet Jetted	185,217	185,165	170,116	187,455	156,596	137,476	189,133	173,132	171,748	165,854	200,225	160,966	2,083,083
# of Main Line Segments Rodded	93	138	92	49	69	106	33	22	67	50	42	79	840
Main Line Linear Feet Rodded	22,719	39,444	29,784	13,381	21,644	31,371	10,173	5,884	24,906	13,003	13,411	24,083	254,803
Laterals Foamed	113	139	68	64	51	46	25	50	76	172	39	156	999
Laterals Foamed, Linear Feet	5,650	6,800	3,300	3,150	2,300	2,300	750	5,000	3,800	8,600	1950	7800	51,400

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

Table 4.3 – Customer Service and CCTV Activity Summary

CUSTOMER SERVICE	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	FISCAL YTD
Service Calls	357	389	334	466	500	438	575	471	418	469	451	421	5,289
USA Requests	1,488	1,132	1087	1057	671	805	925	867	876	1,105	1,106	1,051	12,170
TV Sanitary Line Segment Inspections	88	92	85	142	111	69	149	455	420	124	177	193	2,105
TV Sanitary Line Segment Inspections, Linear Feet	21,839	20,773	22,533	37,902	31,137	20,299	37,369	126,471	115,937	33,093	43,738	49,075	560,166
TV Sanitary Lateral Inspections	41	12	8	19	24	33	43	37	100	36	24	52	429
TV Sanitary Lateral Inspections, Linear Feet	1,629	341	228	579	559	1,122	1,072	1,201	2,396	1,097	595	1,319	12,138

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

Comparison Year 2011-2012 – Customer Service and CCTV Activity Summary

CUSTOMER SERVICE	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	FISCAL YTD
Service Calls	845	859	866	992	901	865	554	498	473	434	302	225	7,814
USA Requests	955	1,221	945	916	1,029	736	1183	887	972	847	1083	1056	11,830
TV Sanitary Line Segment Inspections	15	99	82	127	149	132	230	318	122	202	192	144	1,812
TV Sanitary Line Segment Inspections, Linear Feet	3,695	26,024	19,200	30,585	34,719.1	31,697	61,826	83,202	37,032	47,025	46453	29,932	451,390
TV Sanitary Lateral Inspections	23	32	36	29	14	38	30	23	27	38	15	6	311
TV Sanitary Lateral Inspections, Linear Feet	1,055	1,327	810	1,212	407	1,331	1,204	617	787	1,194	535	168	10,647

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

Table 4.4 – Spoils Activity Summary

SPOILS ACTIVITY SUMMARY	*JUL*	*AUG*	*SEP*	*OCT*	*NOV*	*DEC*	*JAN*	*FEB*	*MAR*	*APR*	*MAY*	*JUN*	*FISCAL YTD*
Operations / Grit Hauling - # of Loads	0	0	4	0	0	0	0	0	0	0	0	0	4
Operations / Grit Hauling - Tonnage	0	0	59.54	0	0	0	0	0	0	0	0	0	59.54
Sanitary Lines / Pump Stations - # of Loads	0	0	9	0	0	0	0	0	0	8	0	0	17
Sanitary Lines / Pump Stations - Tonnage	0	0	116	0	0	0	0	0	0	112.76	0	0	228.76
Construction Hauling – # of Loads	4	6	15	5	3	14	11	4	0	13	8	0	83
Construction Hauling – Tonnage	103.36	84.38	195	69.11	35	215.50	132.57	58.82	0	165.53	116.57	0	1,175.84
Total Loads	4	6	31	5	3	14	11	4	0	21	8	0	107
Total Tonnage	103.36	84.38	392.54	69.11	35	215.50	132.57	58.82	0	278.29	116.57	0	1,486.14

Comparison Year 2011-2012 – Spoils Activity Summary

SPOILS ACTIVITY SUMMARY	*JUL*	*AUG*	*SEP*	*OCT*	*NOV*	*DEC*	*JAN*	*FEB*	*MAR*	*APR*	*MAY*	*JUN*	*FISCAL YTD*
Operations / Grit Hauling - # of Loads	1	0	3	0	7	0	0	0	4	0	0	0	15.00
Operations / Grit Hauling - Tonnage	10.80	0	9.52	0	75.01	0	0	0	49.64	0	0	0	144.97
Construction Hauling – # of Loads	8	6	16	3	9	11	3	10	9	7	5	11	98.00
Construction Hauling – Tonnage	114.67	73.64	201.95	40.4	113.53	146.88	40.8	97.81	99.99	81.65	54.42	152.14	1,217.88
Total Loads	19	9	9	3	20	11	3	10	15	7	0	11	117
Total Tonnage	250.08	106.52	211.47	40.4	232.86	146.88	40.8	97.81	174.58	81.65	54.42	152.14	1,589.61

Table 4.5 – Graffiti Removal

Name / Location of Pump Stations Painted	
Smith Canal Sanitary	Cumberland Sanitary
Plymouth Storm	

Table 4.6 – Maintenance Work Order Summary

Maintenance Work Orders	*Corrective Maintenance*	*Corrective Maintenance % Completed*	*Corrective Maintenance %Backlog*	*Preventive Maintenance % Backlog*
Sanitary Pumping Facilities				
Pump Station Mechanical	125	75.0	25.0	29.3
Pump Station Electrical	7	85.7	14.3	87.5

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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	38	42	48	43	36	16	32	23	43	35	39	41
Industrial Sampling	34	37	42	37	36	14	29	20	34	29	34	37
Discharge Permits (new) *	1	1	0	1	2	0	2	0	1	0	2	0
Discharge Permits (renewal) **	1	0	0	1	0	1	2	2	0	2	3	1
Industrial Flow, MG	146.53	179.71	168.16	132.75	82.96	92.86	86.27	82.71	86.82	81.21	78.20	
Industrial BOD, lbs.	970,900	1,392,400	883,410	609,270	495,410	488,520	549,560	401,310	559,620	449,750	443,220	
Industrial TSS, lbs.	536,550	872,600	389,840	290,800	90,280	95,280	105,950	88,920	128,220	93,340	83,010	
Industrial Revenue	$ 527,979	$ 569,882	$ 517,850	$ 486,222	$ 450,330	$ 477,066	$ 447,370	$ 431,782	$ 442,071	$ 434,769	$ 429,394	
Pretreatment Enforcement Actions***	2	3	7	3	5	3	2	5	8	7	5	2
Waste Hauler Program												
Trucked-in Waste Loads	233	225	168	204	182	247	216	204	222	296	242	
Trucked-in Waste Gallons	707,131	690,871	514,576	610,475	542,490	718,320	641,503	624,875	654,445	874,378	701,064	
Trucked-in Waste Revenue	$ 25,068	$ 24,285	$ 18,121	$ 21,864	$ 19,485	$ 26,269	$ 23,102	$ 22,004	$ 23,696	$ 31,613	$ 25,711	
Stormwater Program												
Hazardous Materials Spills ****	1	1	0	0	0	2	3	0	1	1	0	0
Stormwater Complaints	1	1	2	1	2	3	4	1	2	3	3	0
Stormwater Enforcement Actions*****	1	0	0	1	1	2	4	0	0	1	1	0
FOG Program												
FOG Initial Inspections	114	76	73	100	80	86	111	142	25	16	21	10
FOG Enforcement Actions	15	29	34	44	48	41	52	28	44	54	39	25
FOG Follow-up Inspections	11	22	21	40	31	32	45	17	86	80	56	50

* Discharge Permits (New) – NONE
** Discharge Permits (Renewal) – 1 Wastewater Discharge Permits
**** Hazardous Materials Spills - NONE
*****Stormwater Enforcement Actions - NONE

*** Pretreatment Enforcement Actions
3/2013 – NOV/CO, Second missed monthly oil and grease sample in a 6 month period.
5/22/13 – NOV/CO, Exceeded daily TDS limit by 300 mg/L. Second TDS violation in a 6 month period.

Comparison Year 2010-2011 –Operational Activities Summary

Activity/Indicator	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Pretreatment Program												
Industrial Inspections	38	57	54	47	36	26	45	37	41	35	41	38
Industrial Sampling	34	49	44	41	35	25	39	31	36	31	36	34
Discharge Permits (new)	1	0	1	0	0	0	0	1	1	0	0	0
Discharge Permits (renewal)	1	1	0	7	0	0	3	4	0	0	2	3
Industrial Flow, MG	115.11	188.61	181.70	145.16	92.69	86.99	88.30	92.85	99.92	85.02	90.62	92.70
Industrial BOD, lbs.	835,690	136,610	1,177,650	764,710	662,070	728,620	674,770	586,530	696,920	514,450	455,170	447,960
Industrial TSS, lbs.	246,150	557,430	582,730	351,640	147,180	140,400	109,900	103,250	148,770	118,230	87,540	99,510
Industrial Revenue	$ 439,908	$ 497,417	$ 489,160	$ 453,218	$ 419,739	$ 419,798	$ 403,063	$ 410,128	$ 417,913	$ 402,287	$ 406,448	$ 433,722
Pretreatment Enforcement Actions*	2	9	11	8	5	6	6	4	2	10	3	2
Waste Hauler Program												
Trucked-in Waste Loads	173	225	183	169	168	184	214	182	206	209	322	284
Trucked-in Waste Gallons	522,106	671,625	560,559	520,333	507,269	579,579	652,330	544,347	612,897	629,740	934,671	846,222
Trucked-in Waste Revenue	$ 18,584	$ 24,098	$ 19,739	$ 18,255	$ 18,049	$ 20,002	$ 23,052	$ 19,503	$ 22,043	$ 22,441	$ 34,229	$ 30,402
Stormwater Program												
Hazardous Materials Spills	1	1	1	1	1	0	1	1	2	3	2	0
Stormwater Complaints	1	3	1	2	4	2	3	5	1	3	4	0
Stormwater Enforcement Actions**	1	1	0	1	2	1	2	5	0	0	0	0
FOG Program												
FOG Initial Inspections	127	65	54	50	61	28	48	63	21	55	113	126
FOG Enforcement Actions	15	32	26	27	27	21	29	32	36	24	35	21
FOG Follow-up Inspections	13	21	41	25	16	19	17	19	64	39	40	22

Laboratory

Table 6.1 – Acute Toxicity Testing Summary

Date of EFF-001 Sample (composite)	Percent survival	Lab
06/02/13	100	COS
06/09/13	100	COS
06/17/13	100	PERL
06/23/13	100	COS

Chronic Toxicity

Table 6.2 – Algae (Selenastrum capricornutum)

Sample Date	*NOEC*	*TU_C (100/NOEC)*	*IC_{50}*	*TU_C (100/IC_{50})*	*Comments*
7/16/12[1]	50%	2.0	>100%	<1	Lab water control
7/29/12[#]	100%	1.0	>100%	<1	Lab water control
8/12/12[##]	100%	1.0	>100%	<1	Lab water control
8/26/12[###]	100%	1.0	>100%	<1	Lab water control
9/9/12 [####]	100%	1.0	>100%	<1	Lab water control
10-15-12	100%	1.0	>100%	<1	Lab water control
1-15-13	100%	1.0	>100%	<1	Lab water control
4-22-13	100%	1.0	>100%	<1	Lab water control

1 Toxicity initiates accelerated monitoring
Accelerated Test #1 of 4
Accelerated Test #2 of 4
Accelerated Test #3 of 4
Accelerated Test #4 of 4

The next quarterly monitoring is due in July 2013.

Table 6.3 – Ceriodaphnia (C. dubia)

Sample Date	Survival				Reproduction			
	NOEC	TUC (100/ NOEC)	EC50	TUC (100/ IC50)	NOEC	TUC (100/ NOEL)	IC50	TUC (100/ IC50)
7/16/12	100%	1.0	>100%	<1	100%	1	>100%	<1
10/15/12	100%	1.0	>100%	<1	100%	1	>100%	<1
1/15/13	100%	1.0	>100%	<1	100%	1	>100%	<1
4/22/12	100%	1.0	>100%	<1	100%	1	>100%	<1

Since no chronic toxicity was found, routine quarterly monitoring continues in July 2013.

Table 6.4 – Fathead Minnow (Pimephales Promelas)

Sample Date	Survival				Growth			
	NOEC	TUC (100/ NOEC)	EC50	TUC (100/ IC50)	NOEC	TUC (100/ NOEL)	IC50	TUC (100/ IC50)
7/16/12	100%	1.0	>100%	<1	100%	1.0	>100%	<1
10/15/12	100%	1.0	>100%	<1	100%	1.0	>100%	<1
1/15/13	100%	1.0	>100%	<1	100%	1.0	>100%	<1
4/22/12	100%	1.0	>100%	<1	100%	1.0	>100%	<1

No chronic toxicity was observed in the most recent test with fathead minnows. Testing continues quarterly and is next scheduled for July 2013.

Table 6.5 – Effluent Cyanide Summary

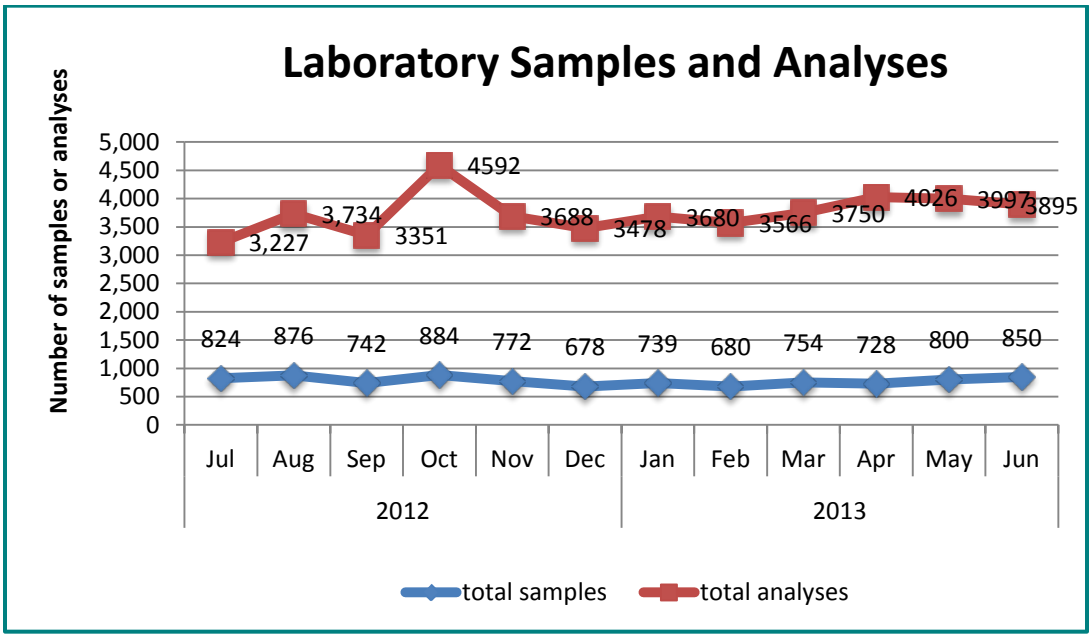
Date	*Cyanide, µg/L*
06/05/2013	DNQ 1.5

ND = Not detected at the MDL, DNQ = detected not quantified, result between MDL and RL, the MDL is 0.90 and the RL is 3 µg/L

Table 6.6 – Effluent Ammonia-N Summary

EFF-001 (Final Effluent)	Regulatory NH3-N, mg/L	Process Control NH3-N, mg/L
Monthly Minimum	<0.5	0.40
Monthly Maximum	0.6	0.85
Monthly Average	<0.5	0.64
Number of samples	9	30

Figure 6.A – Laboratory Samples and Analyses



Laboratory Samples and Analyses – Comparison Year 2011-2012

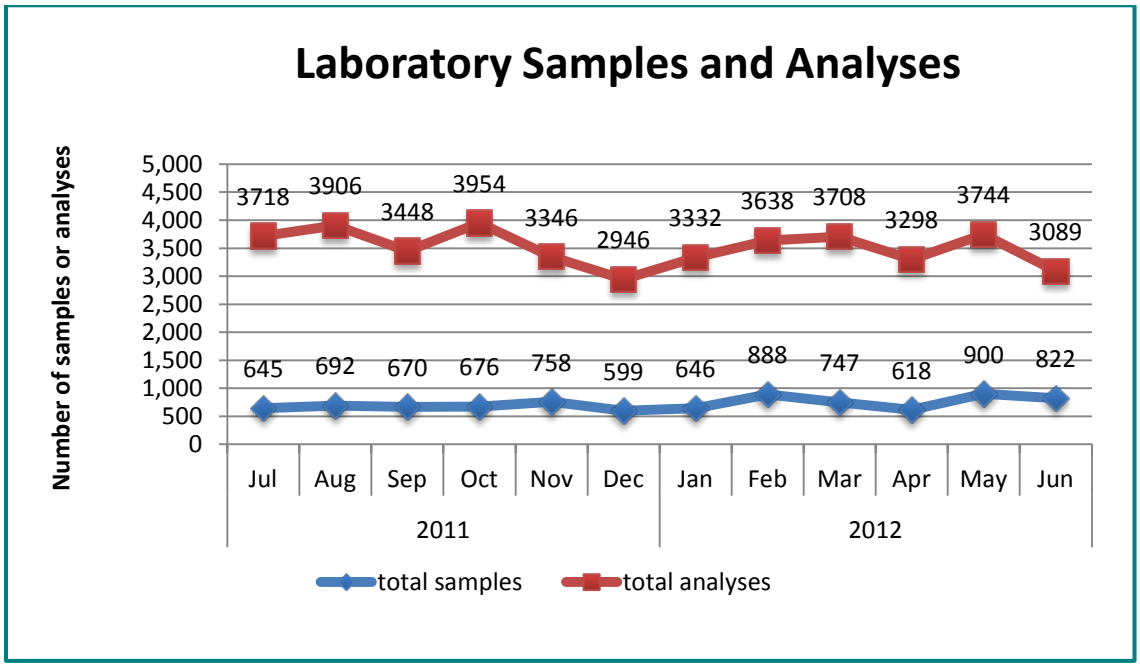
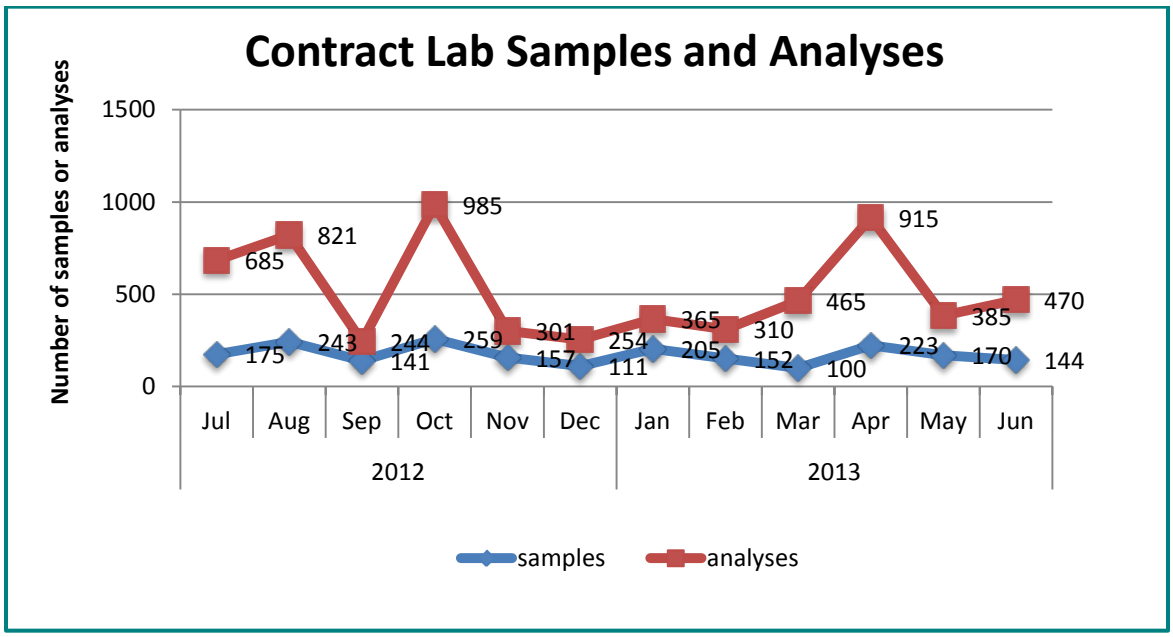


Figure 6.B – Contract Laboratory Samples and Analyses



Contract Laboratory Samples and Analyses – Comparison Year 2011-2012

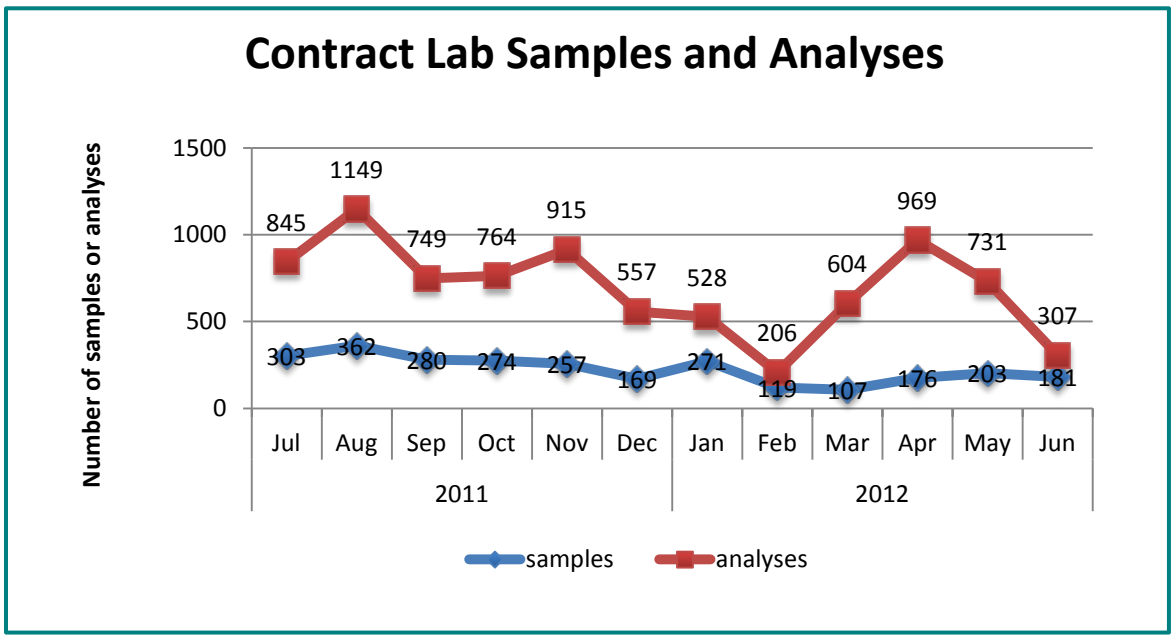
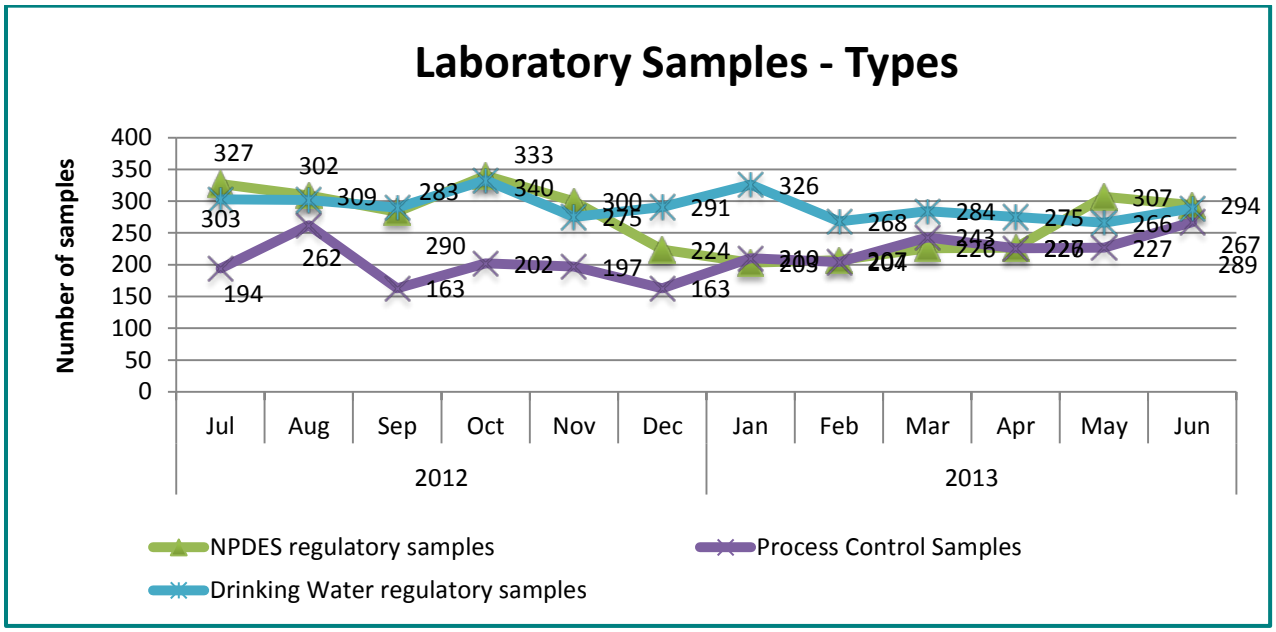
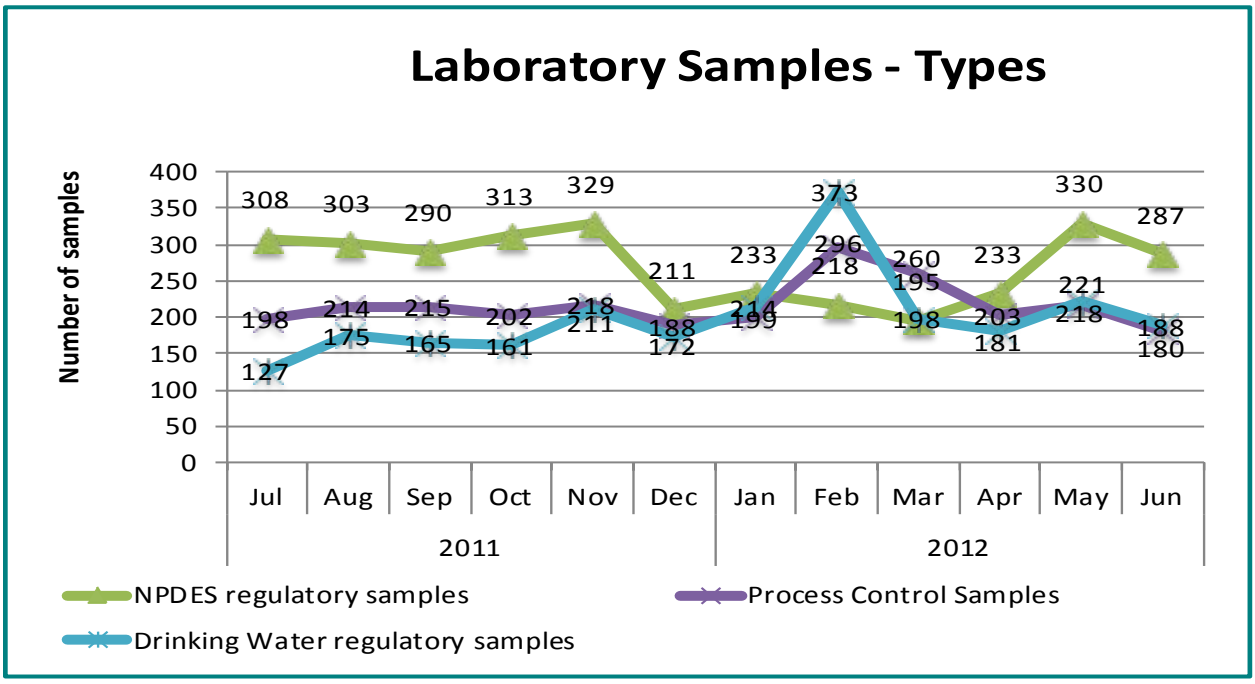


Figure 6.C – Laboratory Sample Types



Laboratory Sample Types Comparison Year 2011-2012



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Engineering

Figure 7.A – Development Reviews Received and Completed

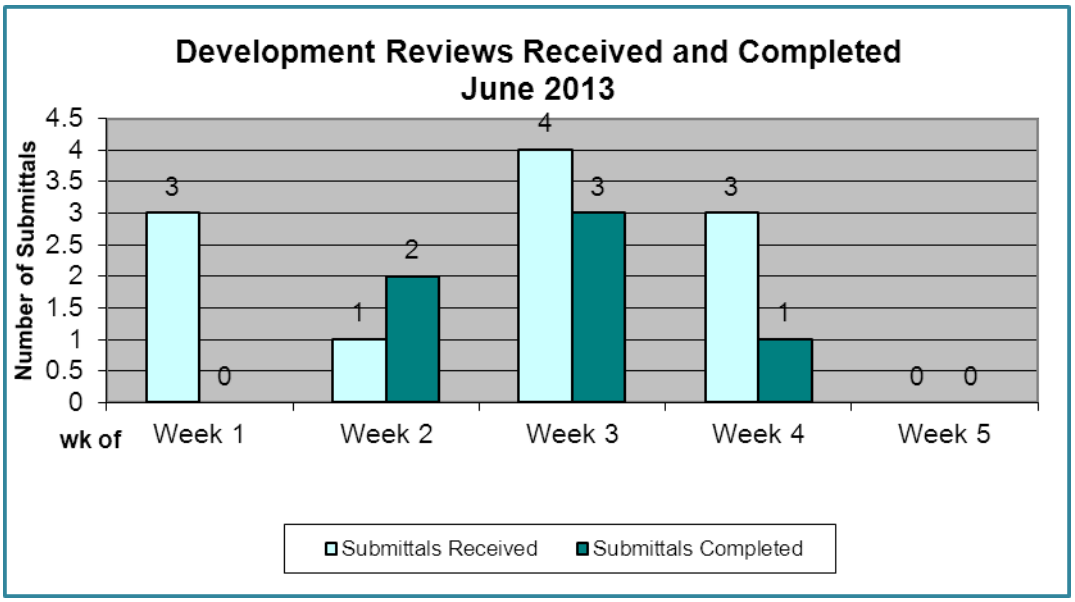
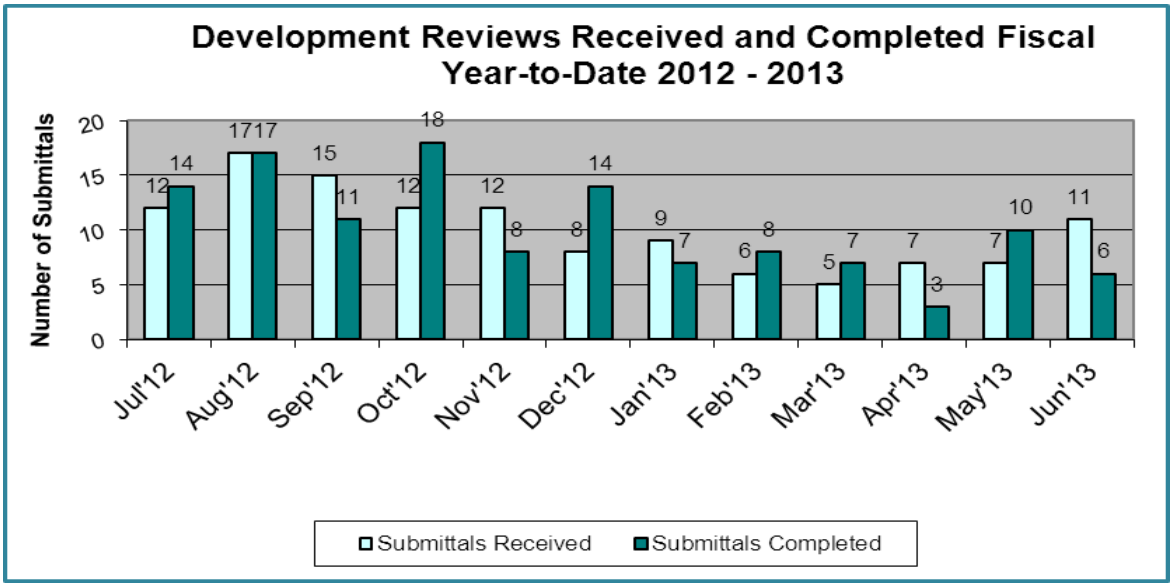


Figure 7.B – Development Reviews Received and Completed Year-to-Date



Development Reviews Received and Completed – Comparison Year 2011-2012

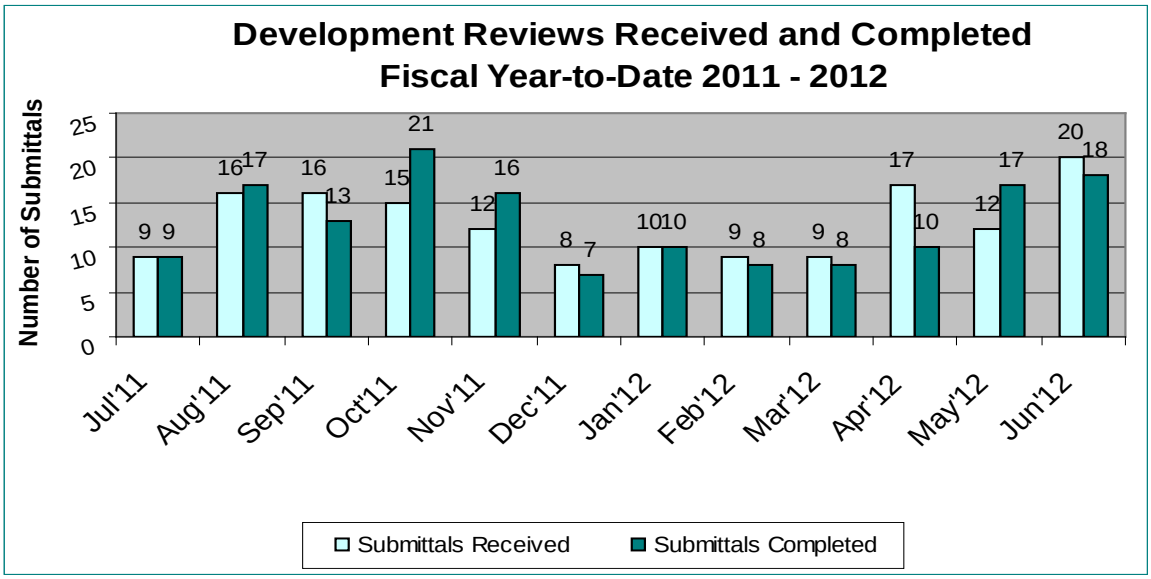
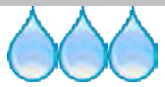


Table 7.1 – Nonpotable, Stormwater, Water, and Wastewater Projects

LEGEND			
Project Type		*Phase Of Project*	
Non-potable	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*
2011 Sanitary Sewer Rehabilitation Project (M11002)		$75,000	
Arch Road Sanitary Sewer Trunk Line (M09106)		$2,500,000	
Automated Meter Reading (M11008)		$120,000	
Capital Improvement and Energy Management Plan EIR (M12019)		$400,000	
CAT Engine Replacement – Phase I & II (M08001)		$430,000	
Feather River Water Main Crossing at 14-Mile Slough Project (M07056)		$322,000	
Rehabilitate Thornton Road Sanitary Pump Station (M13009)		$209,000	
RWCF Bulk Sodium Hypochlorite and Sodium Bisulfite Project (M12007)		$150,000	
RWCF Headworks Rehabilitation Project (M13007)		TBD	
Smith Canal Sanitary Sewer Pump Station – Wet Well (M09093)		$2,600,000	

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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	1	0	0	3
Catch Basin Lateral Repairs/New, Linear Feet	6	0	0	0	0	0	0	0	2	2	0	0	10
# of Storm Main Line Repairs	0	0	0	0	0	0	0	0	0	0	0	0	0
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	0	2	0	0	0	0	0	2	0	1	0	0	5
# of Storm Maintenance-hole Repairs/New	0	0	0	2	0	0	0	0	0	0	0	0	2
Storm – Maintenance													
# of Catch Basin Laterals Jetted	3	0	5	2	13	16	0	2	2	13	5	4	65
Catch Basin Laterals Jetted, Linear Feet	125	0	200	25	525	480	0	100	118	915	250	230	2,968
# of Catch Basin Laterals Rodded	0	0	0	0	0	0	0	0	1	0	0	0	1
Catch Basin Laterals Rodded, Linear Feet	0	0	0	0	0	0	0	0	50	0	0	0	50
# of Storm Main Lines Jetted	0	0	8	1	2	1	2	0	0	4	1	0	19
Storm Main Lines Jetted, Linear Feet	0	0	915	241	470	306	555	0	0	520	350	0	3,357
# of Storm Main Lines Rodded	0	0	0	0	0	0	0	0	0	0	0	1	1
Storm Main Lines Rodded, Linear Feet	0	0	0	0	0	0	0	0	0	0	0	350	350
# of Storm Catch Basins Cleaned	5	20	2	5	131	444	2	4	6	23	117	52	811
# of Storm Maintenance-holes Cleaned	0	1	1	1	3	1	0	3	0	3	2	0	15
# of Storm Pump Stations Cleaned	1	6	9	11	1	0	0	0	2	0	0	0	30
# of tons of Debris Removed from Storm Stations	92.10	32.80	10.7	16.85	4.30	0	0	0		0	0	0	157
# of Storm Catch Basins Inspected	0	2	1	0	0	0	0	0	0	0	0	0	3
# of Storm Catch Basins Stenciled	0	9	0	0	0	0	0	0	0	0	0	0	9
# of Storm Event Calls	0	0	0	0	240	597	15	15	11	16	0	0	894
Storm Event Line Clean-up, Linear Feet	0	0	0	0	12	177	27	39	8	48	0	0	354
TV Storm Line Segment Inspections	0	0	3	0	0	0	0	0	0	0	0	0	3
TV Storm Line Segment Inspections, Linear Feet	0	0	704	0	0	0	0	0	0	0	0	0	704
Spoils Storm Pump Stations / CBs - # of Loads	0	0	3	0	0	0	0	0	0	0	0	0	3.00
Spoils Storm Pump Stations / CBs - Tonnage	0	0	22	0	0	0	0	0	0	0	0	0	22.00

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

Comparison Year 2011-2012 – 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	2	1	0	0	0	4
Storm Main Line Repairs, Linear Feet	0	0	0	3	0	0	0	4	0	0	0	0	7
# of Catch Basin Storm Repairs/New	1	1	1	1	1	0	0	0	0	1	0	0	6
# of Storm Maintenance-hole Repairs/New	1	1	0	0	0	0	0	0	1	0	0	0	3
Storm – Maintenance													
# of Catch Basin Laterals Jetted	1	17	3	17	0	2	8	2	17	14	0	15	96
Catch Basin Laterals Jetted, Linear Feet	26	0	0	1,890	0	75	620	100	845	350	0	625	4,531
# of Catch Basin Laterals Rodded	0	4	0	0	2	0	1	0	1	4	0	0	12
Catch Basin Laterals Rodded, Linear Feet	0	140	0	0	40	0	38	0	50	102	0	0	370
# of Storm Main Lines Jetted	0	0	0	6	1	0	2	0	9	3	0	1	22
Storm Main Lines Jetted, Linear Feet	0	0	0	1,349	386	0	350	0	2,678	735	0	478	5,976
# of Storm Main Lines Rodded	2	0	0	0	2	0	1	1	2	1	0	0	9
Storm Main Lines Rodded, Linear Feet	261	0	0	0	425	0	35	35	730	380	0	0	1,866
# of Storm Catch Basins Cleaned	41	0	61	68	5	0	246	0	14	22	81	17	555
# of Storm Maintenance-holes Cleaned	0	0	0	0	0	0	0	0	4	0	0	3	7
# of Storm Pump Stations Cleaned	6	10	9	6	4	0	1	0	0	0	1	2	39
# of tons of Debris Removed from Storm Stations	44.80	102.75	29.2	30.5	9.65	0	2.45	0	0	0	2.45	0.3	222
# of Storm Catch Basins Inspected	2,562	598	7	14	0	0	0	0	0	232	2,835	393	6,641
# of Storm Catch Basins Stenciled	884	125	0	0	0	0	0	0	0	120	312	126	1,567
# of Storm Event Calls	0	0	0	32	0	0	186	54	27	228	0	0	527
Storm Event Line Clean-up, Linear Feet	0	0	0	100	0	0	72	79	136	383	0	0	770
TV Storm Line Segment Inspections	4	0	0	0	0	0	0	1	0	0	2	0	7
TV Storm Line Segment Inspections, Linear Feet	104	0	0	0	0	0	0	114	0	0	133	0	351
Storm Pump Stations / CBs - # of Loads	10	3	0	0	4	0	0	0	2	0	0	0	19
Storm Pump Stations / CBs - Tonnage	124.61	32.88	0	0	44.32	0	0	0	24.95	0	0	0	226.76

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

Table 8.2 –Inspections

Total Sites	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*
Total Sites	20	18	17	13	17	16	16	18	19	20	19	16
Inspections	20	18	17	13	17	16	16	18	19	20	19	16
Verbal Warnings	5	3	2	2	7	4	5	4	3	8	5	11
Correction Orders	4	1	2	1	2	2	12	4	3	2	4	1
Notice to Clean	2	1	1	1	1	2	6	3	4	2	1	2
Notice of Violation	0	0	1	0	3	2	12	0	3	3	0	1
Admin. Citations	0	0	1	0	3	2	12	0	3	3	0	0
Referred to RWQCB	0	0	0	0	0	0	12	0	0	0	0	0

Inspections – Comparison Year 2011-2012

Total Sites	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*
Total Sites	20	22	23	21	20	19	17	17	16	14	16	18
Inspections	20	22	23	21	20	19	17	17	16	14	16	18
Verbal Warnings	5	4	3	0	0	0	0	1	2	4	3	2
Correction Orders	0	4	5	0	1	0	0	0	2	0	1	0
Notice to Clean	0	0	3	1	1	0	0	0	2	0	1	0
Notice of Violation	0	0	0	0	0	0	0	0	2	0	0	0
Admin. Citations	0	0	0	0	0	0	0	0	2	0	1	0
Referred to RWQCB	0	0	0	0	0	0	1	0	2	0	0	0

Table 8.3 –Outreach

Description	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	FYTD
Utility Bill Insert	47,594	47,613	47,669	47,621	47,589	47,501	52,109	52,049	52,576	52,875	52,741	52,808	600,745
Literature Distribution							60				20		80
Presentations / Study Guides													0
August Knodt Science Fair							200						200
Primary Years Academy											30		30
Multi-Media – Radio, TV													0
Radio & TV							331,400			331,400	156,000	156,000	974,800
Ports Monster Wall										34,612	50,484	39,789	124,885
Theater Ads											44,744	74,124	118,868
Newspaper/Magazines									11,000		16,500	111,000	138,500
Website/Hotline					5,633	5,000	1,504	1,484	3,468	37,703	52,741	36,865	144,398
Events													0
Stockton Ports	365	135											500
Earth Day										300			300
State of the City											500		500
Senior Awareness Day											3,000		3,000

Table 8.4 –Stormwater Pumping Facilities Work Order Summary

	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
Pump Station Mechanical												
Corrective Maintenance	10	16	11	27	11	23	12	12	20	29	17	5
% Completed	60	87.5	45.5	77.8	63.6	60.9	75.0	50.0	35.0	17.2	58.8	60.0
% Backlog	40	12.5	54.5	22.2	26.4	43.5	25.0	50.0	65.0	82.8	41.2	40.0
Preventive Maintenance												
% Backlog	50.7	78.5	43.4	1.9	79.2	61.7	39.0	23.3	64.3	44.3	19.0	32.2
Pump Station Electrical												
Corrective Maintenance	3	22	10	25	15	26	11	2	10	5	5	3
% Completed	100	100	80	80	60	61.5	81.8	100	40.0	80.0	60.0	33.3
% Backlog	0	0	20	20	40	42.3	18.2	0	60.0	20.0	40.0	66.7
Preventive Maintenance												
% Backlog	NA	NA	88.1	NA	NA	100	NA	NA	98.6	N/A	0.0	97.2

Work Order Summary - Comparison Year 2011-2012

	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
Pump Station Mechanical												
Corrective Maintenance	7	5	10	18	9	22	17	16	15	10	10	14
% Completed	100	60	100	55.6	66.7	9.1	82.4	50	93.3	90	80	14.3
% Backlog	0	40	0	44.4	33.3	90.9	17.6	50	6.7	10	20	85.7
Preventive Maintenance												
% Backlog	32.4	62.6	89.9	23	61.9	62.1	17.7	66.3	77.8	23.7	47.2	21
Pump Station Electrical												
Corrective Maintenance	6	6	5	13	4	23	16	5	9	12	11	13
% Completed	50	83.3	100	53.8	100	8.7	100	40	77.8	8.3	54.5	84.6
% Backlog	50	16.7	0	46.2	0	91.3	0	60	22.2	16.7	45.5	15.4
Preventive Maintenance												
% Backlog	NA	NA	94.4	63.2	NA	100	100	100	77.8	NA	NA	97.2

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Administration

Table 9.1 – Summary of Unsafe Conditions or Acts

	Current Month	*Calendar Year*
Number of Unsafe Conditions or Acts Reported *	0	7
Number of Vehicle Incidents: No Fault of Employee	0	0
Number of Vehicle Incidents: Fault of Employee	1	2

* City vactor truck backed into a parked City sweeper at the Main Plant.

Table 9.2 – Summary of Work-Related Injuries and Illnesses

	Current Month	*Calendar Year*
Number of Cases	0	11
Number of Cases with Lost Time	0	0
Number of Cases with Work Restrictions	0	5

Table 9.3 – Summary of Safety Training

	Training Hours Delivered	*# of Attendees*	*Total Attendee Hours*
Tailgate Sessions			
Illicit Discharge Training	1	33	33
Confined Space	1	37	37
UV Safety	1	9	9
MSDS Sheets Training	1	6	6
Preventable Accidents	1	30	30
Backhoe Safety	1	33	33
Eye Injuries	1	6	6
Special Training			
Confined Space	5	20	100
HazCom (Right to Know)	1	68	68
Fit Testing	2	116	232
TOTAL	15	358	554

Human Resources Operational Activities

Table 9.4 – Staffing Summary

Divisions	*# of Positions*	*# of Employees*	*Vacancies*	*Change (+/-)*
Administration	17	13	4	
Financial Services	5	5	0	
Collections	62	57	5	
Engineering	14	13	1	-1
Environmental Control	7	7	0	
Laboratory	7	7	0	
Wastewater Treatment	48	41	7	
Water Treatment/Distribution	30	28	2	-2
Water Resources/Treatment	18	16	2	+1
Total Staff Count	208	187	21	-3 / +1

Table 9.5 – Overtime Summary

Division	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*
Administration	31.75	22.25	42.00	21.50	48.25	14.25	51.75	48.75	50.75	43.50	20.50	42.50
Business Services	0	0	0	0	0	0	0	0	0	0	7.25	5.00
Collections	209	454	288	364.25	612.75	570	396.75	506.75	372.50	737.25	730.75	613.50
Engineering	0	9.50	0	6.50	0	21.25	4	8	0	0	11	13
Env. Control	0	3.75	10	0	2	8.25	46.75	36	35.50	10.25	3.50	0
Laboratory	4.50	0.50	0	3.75	28	8	17.50	12.50	22.75	10.25	8	6.75
Maintenance	155.25	464.25	188.50	99.50	275.25	287	269.50	305.75	148.75	170.50	194.75	182.75
WW Treatment	453.25	421	423.75	267	658	549.50	669	504	577.50	392.75	574.75	701.25
Stormwater	0	0	8	0	0.50	8	0	0.50	16.25	0	0	50.50
Water Distribution	160	187	201.25	121.50	239	93.75	107	77.75	170	115.50	187	192.25
Water Resources	0	0	3	0	0	0	0	0	0	1.5	2.50	0
Water Treatment	308.25	253.25	392.75	262.75	343.50	310.75	249.75	248	377.50	278	262.75	362
TOTALS	1,322.00	1,815.50	1,557.25	1,146.75	2,207.25	1,870.75	1,812.00	1,748.00	1,771.50	1,759.50	2,002.75	2,169.50

Overtime Summary – Comparison Year 2011-2012

Division	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*
Administration	26.25	12	29.75	11.25	39.75	16.25	22.75	28.50	57	72.50	48.75	32.25
Business Services	2.75	4	0	2	3	2.75	13.25	0	0	0	0	0
Collections	351	279.75	416.50	412	436.25	493	513	497.25	495.25	305.50	326.75	322.50
Engineering	3.50	0	13.50	2.75	0	3	8	14.50	18.50	0	0	0
Env. Control	26.25	21	31.50	10.50	5.25	10.25	5.25	53.75	9.25	18.75	22.50	28.75
Laboratory	28	9	16	5.75	44	35	35.75	2	6	0	0	0
Maintenance	348.25	306.75	281.50	114	98.75	79.50	123	163.25	209.25	328.25	166.25	139.25
WW Treatment	593.25	324.50	470	363	711	557.25	394.50	242.50	391.50	313	493.25	383.25
Stormwater	0	0	5	8	1.50	0	0	0	0	0	6.50	5.50
Water Distribution	90.50	127	159.75	54.75	183.50	199.75	107	91.75	45.25	57	136.25	130.75
Water Resources	0	0	0	0	0	0	0	2	22	1	2	0
Water Treatment										24.50	463	565.50
TOTALS	1,469.75	1,084.00	1,423.50	984.00	1,523.00	1,396.75	1,222.50	1,095.50	1,254.00	1,120.50	1,665.25	1,607.75

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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: Distribution System	Sample Date	Parameter
DWSP - Finished Water	06-20-13	Annual T22 on Finished water for DWTP
DWSP - Delta Source	06-20-13	Annual T22 on Delta Source water for DWTP
DWSP - Delta Source - VOC	06-21-13	Annual T22 on Delta Source water for DWTP
Well #10-R	06-25-13	Quarterly TDS/EC
Well #19	06-25-13	Quarterly TDS/EC
Well #21	06-25-13	Quarterly TDS/EC
Well #29	06-25-13	Quarterly TDS/EC
Well #30	06-25-13	Quarterly TDS/EC
Well #9	06-18-13	Cycle test
Well #SS8	06-18-13	Cycle test
Well #7	06-20-13	Cycle test
Well #25	06-25-13	Cycle test
Well #1	06-25-13	Cycle test

Exceptions

No exceptions this month.

Well Status Changes

(none)

Other

CITY OF STOCKTON MONTHLY SYSTEM OPERATION
JUN 2013

30 WELL STA. No.	WELL STATION LOCATION	MONTHLY OPERATIONS HRS OPERATED	PROD. MG	RATE MGD	RATE GPM	WELL SOUNDING	MONTHLY POWER KWH	KWH/MG	GAS POWER 1000FT3	1000FT3 per MG	MONTHLY CHEMICALS CL2 TOTAL LBS.	AQUA-MAG TOTAL LBS.
NORTH WELL SYSTEM												
1	PARKWOODS	**2.20**	**0.00**	0.00	0		160	0			0	0
4	VILLA DORADO	**0.00**	**0.00**	0.00	0		840	0			0	0
7	GALLOWAY	**0.90**	**0.00**	0.00	0		32	0			0	
9	DON CARLOS	**1.00**	**0.00**	0.00	0		115	0			0	
10R	VALVERDE PARK	**183.40**	**29.97**	1.00	2724		39360	1313			83	
11	INGLEWOOD	**0.00**	**0.00**	0.00	0		80	0			0	0
15	GLASGOW	**0.00**	**0.00**	0.00	0		80	0			0	0
16	ROYAL OAKS	**0.00**	**0.00**	0.00	0		2672	0	0.0	0	0	0
18	HICKOCK	**0.00**	**0.00**	0.00	0		51	0			0	
19	MORADA/WEST LANE	**41.30**	**4.25**	0.14	1715		6280	1478			10	
20	WEST LANE/MOSHER	**0.00**	**0.00**	0.00	0		1664	0	0.0	0	0	
21	CORTEZ PARK	**59.70**	**6.28**	0.21	1754		9360	1490			15	
24	SAFFRON	**0.10**	**0.00**	0.00	0		240	0			0	
25	PANELLA PARK	**0.90**	**0.00**	0.00	0		960	0	13.0	0	0	
26	AUTO CENTER	**0.00**	**0.00**	0.00	0		649	0	0.0	0	0	
27	HORSE PARK	**25.70**	**3.27**	0.11	2123	45	4080	1246			6	
28	BLOSSOM RANCH	**0.00**	**0.00**	0.00	0	62	0	0			0	
28	alternate electric meter				monitor well #17	56	280	0				
29	BAXTER PARK	**102.40**	**16.29**	0.54	2651	39	18480	1135			56	
30	GRIDER	**92.50**	**11.98**	0.40	2158	46	15680	1309			44	
31	IVANO LANE*	**0.00**	**0.00**	0.00	0	78	480	0			0	
32	HWY 99 FRONTAGE*	**344.70**	**41.26**	1.38	1995		54240	1315			127	
3R	7400 N. WEST LANE	**173.80**	**21.85**	0.73	2095		27120	1241			79	
NWR	NORTHWEST RESERVOIR						57600		91.0		491	
14 Mile	14 MILE RESERVOIR						34720				269	
I	**TOTAL SYSTEM PRODUCTION**	**1,028.60**	**135.15**				**275223**		**104.0**		**1180**	**0**
	TOTAL STOCKTON EAST PURCHASED WATER		**415.46**									
	DWTP		**604.98**									
	TOTAL NORTH SYSTEM		**1155.59**									
	DAILY AVERAGE	**34.3**	**38.52**				**9174**		**3.5**		**39**	**0**
SOUTH WELL SYSTEM												
SS1	QUANTAS	0.00	0.00	0.00	0		1187	0	0.0	0	0	0
SS2	N. ARCH FRONTAGE	0.50	0.04	0.64	1400		153	3643			1	
SS3	FRONTIER*	1.10	0.00	0.00	61	68	440	110000			0	
SS4	AIRPORT SOUTH	0.00	0.00	0.00	0		0	0			0	0
SS5	AIRPORT NORTH	0.00	0.00	0.00	0		0	0			0	0
SS8	SHROPSHIRE PARK	1.30	0.00	0.00	0		320	0			0	
SS9	B ST. & LITTLEJOHN	0.90	0.00	0.00	56		560	186667			0	
Weston	WESTON RANCH RESERVOIR						16640				0	
K	**TOTAL SOUTH WELL PRODUCTION**	3.8	**0.05**									
SSA	SO SYS AQUEDUCT		**233.02**				19				115	
	TOTAL SOUTH SYSTEM		**233.07**				**19319**		**0.0**		**116**	**0**
	DAILY AVERAGE	**0.1**	**7.77**				**644**		**0.0**		**4**	**0**
FILBERT/MLK II TERCONNECT												
	FILBERT INTERCONNECT		8.32									
	DAILY AVERAGE		**0.28**									

CITY & COUNTY INTERCONNECTIONS		**Meter Reading**	
F	PLYMOUTH ROAD	407614	44.22
E	PERSHING	861525	19.54
G	GREELEY	163721	18.35
M	PORTOLA AVENUE	91039	2.98
N	THORNTON	642049	18.67
			103.75
			3.46

Appendix B

Environmental Compliance

Monitored Industrial User Charges

Customer Charges Report

Septic Waste Haulers' Charges

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May-13

MONITORED INDUSTRIAL USER MONTHLY CHARGES

6/21/2013

CUST ID #	COMPANY	CHG CODE	STANDBY FLOW	STANDBY BOD	STANDBY TSS	SUB-TOTAL	LOADING FLOW	LOADING BOD	LOADING TSS	OTHER	SUB-TOTAL	ADMIN FEE	TOTAL	
6305	American Sunny Foods	SIM15	0.48	1.20	0.45	$363.74	0.15	0.36	0.23	$0.00	$88.63	$18.85	$471.23	
6360	Ingredion (1010 Zephyr)	SIM1	14.45	3.58	3.49	$7,713.99	6.29	0.10	0.05	$0.00	$2,719.90	$18.85	$10,452.74	
7025	Angelica Textile Services	SIM26	5.10	30.00	9.10	$5,511.20	0.00	0.00	0.00	$0.00	$0.00	$18.85	$5,530.05	
10017	BJJ Trucking	SIM16	0.51	12.51	1.25	$1,340.33	0.50	9.27	0.82	$0.00	$535.38	$18.85	$1,894.56	
53454	California Advanced H2O	SIM28	7.86	12.78	3.29	$4,120.87	1.63	0.24	0.40	$0.00	$730.58	$18.85	$4,870.30	
6290	California Spray Dry Co.	SIM2	5.10	118.00	28.00	$13,743.99	0.67	18.67	3.41	$0.00	$1,015.23	$18.85	$14,778.07	
4990	California Tank Lines	SIM17	1.00	14.18	4.90	$1,935.67	0.61	3.88	1.90	$0.00	$471.63	$18.85	$2,426.15	
6240	Campbell Soup Supply	SIM12	65.00	330.00	230.00	$72,741.00	0.00	0.00	0.00	$0.00	$0.00	$18.85	$72,759.85	
43328	Cintas Corporation	SIM24	3.60	23.00	12.00	$4,367.07	3.18	8.12	3.16	$0.00	$1,767.80	$18.85	$6,153.72	
6245	Ingredion Incorporated (Corn Prod)	SIM3	26.00	455.00	90.00	$55,099.29	17.46	263.86	40.11	$0.00	$17,412.55	$18.85	$72,530.69	
43838	Midway, Crosstown Commons	SIM4	3.00	10.00	0.30	$2,325.04	0.10	0.02	0.03	$0.00	$44.88	$18.85	$2,388.76	
6270	Diamond of California	SIM5	8.00	210.00	145.00	$29,542.72	1.58	30.81	9.35	$0.00	$2,058.81	$18.85	$31,620.38	
75519	Dole Packaged Foods LLC Stock	SIM30	1.22	10.30	5.22	$1,748.69	0.39	3.88	1.10	$0.00	$338.80	$18.85	$2,106.34	
5700	Duraflame	SIM14	3.10	3.75	1.75	$1,651.93	0.10	0.04	0.03	$0.00	$46.41	$18.85	$1,717.19	
5100	San Joaquin County French Camp	USI4					8.86			$0.00	$19,544.10	$18.85	$19,562.95	
34202	Grimaud Farms	SIM19	0.80	6.00	2.00	$1,002.97	0.59	3.28	0.69	$0.00	$385.06	$18.85	$1,406.88	
6315	Hormel	SIM7	12.00	35.00	30.00	$10,596.73	8.93	18.10	10.50	$0.00	$4,908.20	$18.85	$15,523.78	
47912	New Stockton Poultry	SIM25	0.75	8.37	3.04	$1,231.08	0.60	3.96	0.96	$0.00	$425.32	$18.85	$1,675.25	
52651	Niagara	SIM27	4.50	2.04	0.69	$2,453.38	3.90	0.00	0.10	$0.00	$1,687.02	$18.85	$4,159.24	
5625	Northern California Youth Center	USI3					2.74			$0.00	$6,036.33	$18.85	$6,055.18	
61727	Brulin & Co.	SIM8	1.54	3.85	3.85	$1,308.02	0.00	0.00	0.00	$0.00	$0.00	$18.85	$1,326.87	
61265	Pacific Ethanol	SIM29	4.50	1.13	1.13	$2,406.05	3.27	0.98	0.62	$0.00	$1,473.48	$18.85	$3,898.38	
33746	Parsons Engineering Science	USI5					0.58			$0.00	$1,046.26	$18.85	$1,065.11	
11149	Port of Stockton - Rough and Ready	USI2					5.93			$0.00	$13,089.17	$18.85	$13,108.02	
6250	DTE	SIM10	5.50	7.62	7.62	$3,813.74	0.63	0.07	0.11	$0.00	$279.13	$18.85	$4,111.71	
33822	Sodexho	SIM18	6.93	8.60	5.17	$4,462.63	3.35	4.65	1.61	$0.00	$1,664.20	$18.85	$6,145.68	
21193	Stockton Sanitary Wash Rack	SIM20	0.64	50.06	5.12	$4,668.75	0.16	39.41	0.19	$0.00	$1,265.96	$18.85	$5,953.56	
42136	Tankerwash USA	SIM22	1.00	22.39	6.79	$2,711.24	0.70	16.98	1.55	$0.00	$888.15	$18.85	$3,618.24	
6320	Unilever Bestfoods	SIM13	60.00	675.00	300.00	$102,277.65	0.61	3.38	1.78	$0.00	$451.33	$18.85	$102,747.83	
40039	Unifirst Corp	SIM21	2.25	10.82	4.44	$2,261.15	1.60	6.85	1.55	$0.00	$971.27	$18.85	$3,251.26	
80635	Wilmar Gavilon LLC	SIM31	1.00	1.50	1.00	$679.91	0.00	0.00	0.00	$0.00	$0.00	$18.85	$698.76	
6280	Zacky Kitchens	SIM11	5.37	6.32	8.86	$3,716.90	3.07	6.30	2.77	$0.00	$1,649.50	$18.85	$5,385.25	
APPROVED BY:			251.19	2072.99	914.46	$345,795.73	78.20	443.22	83.01	$0.00	$82,995.06	$603.20	$429,394.00	$429,394.00

May-13 **WORKSHEET FOR MONITORED INDUSTRIAL USER MONTHLY CHARGES** 6/21/2013

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	868533	706519	0.15	283	0.36	179.09	0.23	$0.00	Jun-13
Ingredion (1010 Zephyr) (was AP)	11661607	11598753	6.29	2	0.10	1	0.05	$0.00	Jun-13
Angelica Textile Services	1343652	1343652	0.00	0	0.00	0	0.00	$0.00	Jun-13
BJJ Trucking	18731567	18228964	0.50	2213	9.27	195	0.82	$0.00	Jun-13
Advanced Refreshment (Ca H2O)	128788200	127158500	1.63	18	0.24	29.75	0.40	$0.00	Jun-13
California Spray Dry Co.	215626720	214957600	0.67	3346	18.67	612	3.41	$0.00	Jun-13
California Tank lines	51662457	51052138	0.61	761	3.88	373.18	1.90	$0.00	Jun-13
Campbell Soup Supply	35290200	35290200	0.00	0	0.00	0	0.00	$0.00	Jun-13
Cintas Corporation	41178860	38003570	3.18	307	8.12	119	3.16	$0.00	Jun-13
Ingredion	252286384	234938384	17.46	1812	263.86	275	40.11	$0.00	Jun-13
Midway, Crosstown Commons	33843400	33744200	0.10	25.5	0.02	35.25	0.03	$0.00	Jun-13
Diamond of California			1.58	2339	30.81	710	9.35	$0.00	Jun-13
Dole Packaged Foods LLC Stockton	11302705	10910991	0.39	1187	3.88	337	1.10	$0.00	Jun-13
Duraflame/Cal Cedar	1520773	1419077	0.10	46.5	0.04	32	0.03	$0.00	Jun-13
San Joaquin County - French Camp			8.86					$0.00	Jun-13
Grimaud Farms	72496151	71932734	0.59	672	3.28	141.4	0.69	$0.00	Jun-13
Hormel	553752.31	544818.25	8.93	243	18.10	141	10.50	$0.00	Jun-13
New Stockton Poultry	47523712	46921952	0.60	789.25	3.96	191.5	0.96	$0.00	Jun-13
Niagara	234393514	230497715	3.90	0	0.00	3	0.10	$0.00	Jun-13
Northern California Youth Center	2791000	54530	2.74	240	5.48	141	3.22	$0.00	Jun-13
Brulin & Co. (formerly Paul Funston)			0.00		0.00		0.00	$0.00	Jun-13
Pacific Ethanol	28749012	25474620	3.27	36	0.98	22.75	0.62	$0.00	Jun-13
Parsons Engineering Science			0.58					$0.00	Jun-13
Port of Stockton - Rough and Ready	2009219	6075461	5.93					$0.00	Jun-13
DTE Company	2103229	1473612	0.63	14	0.07	20	0.11	$0.00	Jun-13
Sodexo	699054	665549	3.35	166.25	4.65	57.64	1.61	$0.00	Jun-13
Stockton Sanitary Wash Rack	6032355	5867731	0.16	28702.2	39.41	137.778	0.19	$0.00	Jun-13
Tankerwash USA	35145146	34443627	0.70	2901	16.98	264	1.55	$0.00	Jun-13
Unilever	756060	145150	0.61	110	3.38	85	1.78	$0.00	Jun-13
Unifirst Corp	25170556	23571518	1.60	514	6.85	116.2	1.55	$0.00	Jun-13
Wilmar Gavilon LLC			0.00					$0.00	Jun-13
Zacky Kitchens	68663761	65591811	3.07	240	6.30	116	2.77	$0.00	Jun-13
TOTAL			78.20		448.70		86.23	$0.00	

Customer Monthly Charges Report

Date Range: 05/01/2013 **to** 05/31/2013

Cust ID	Customer Name	Total Gallons	Gallon Charge	Trip Charge	Other Charges	Total Charges
10708	A & A Portables	15990	$155.90	$624.00	0	$779.90
78477	A & J Rentals	5200	$50.70	$624.00	0	$674.70
11153	AAA Septic & Rooter	61200	$596.70	$1,404.00	0	$2,000.70
11491	ABC Plumbing				0	
8060	Cal State Rentals				0	
53931	Dillard Trucking Inc				0	
10495	ET Services				0	
6195	Frank & Jrs Sewer Service	100800	$982.80	$2,496.00	0	$3,478.80
6200	G & C Septic	3150	$30.71	$78.00	0	$108.71
4735	Parrish and Sons	145000	$1,413.75	$3,510.00	0	$4,923.75
75717	Premium Packing	4500	$43.88	$390.00	0	$433.88
6210	Richards Pumping	145000	$1,413.75	$4,524.00	0	$5,937.75
39444	Roto Rooter Sewer Service	220224	$2,147.18	$5,226.00	0	$7,373.18
74032	SRC Pumping Co				0	
35781	United Site Services				0	
Grand Totals		**701064**	**$6,835.37**	**$18,876.00**	**$0.00**	**$25,711.37**

Approved By:_____

Septic Waste Haulers Monthly Charges

Date Range: 05/01/2013 **to** 05/31/2013

Customer Name	User ID	Tank Capacit	Total Trips	Total Gallons	Per 1000 Gal $ 9.75	Per Trip $ 78.00	Additional Charges
Parrish and Sons	0001	2400	8	19200	$187.20	$624.00	$0.00
G & C Septic	0002	3150	1	3150	$30.71	$78.00	$0.00
A & A Portables	0003	3235					
Roto Rooter Sewer Service	0004	3382	32	108224	$1,055.18	$2,496.00	$0.00
Richards Pumping	0006	2500	58	145000	$1,413.75	$4,524.00	$0.00
Frank & Jrs Sewer Service	0008	1907					
Frank & Jrs Sewer Service	0009	3150	32	100800	$982.80	$2,496.00	$0.00
A & A Portables	0010	1500	6	9000	$87.75	$468.00	$0.00
Parrish and Sons	0012	3400	37	125800	$1,226.55	$2,886.00	$0.00
ET Services	0014	4000					
Cal State Rentals	0015	1320					
Cal State Rentals	0016	900					
Roto Rooter Sewer Service	0017	3200	35	112000	$1,092.00	$2,730.00	$0.00
United Site Services	0018	2000					
United Site Services	0019	2000					
ABC Plumbing	0020	2400					
Dillard Trucking Inc	0021	3000					
A & A Portables	0022	3495	2	6990	$68.15	$156.00	$0.00
SRC Pumping Co	0024	4454					
AAA Septic & Rooter	0027	3400	18	61200	$596.70	$1,404.00	$0.00
A & J Rentals	0028	650	8	5200	$50.70	$624.00	$0.00
G & C Septic	0029	3170					
Cal State Rentals	0031	2081					
Premium Packing	0032	900	5	4500	$43.88	$390.00	$0.00
Monthly Grand Totals:			**242**	**701064**	**$6,835.37**	**$18,876.00**	