



# Monthly Operations and Maintenance Report

## January 2016



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## Acronyms and Abbreviations

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

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

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

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

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

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

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

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

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

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

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# Executive Summary

## Summary

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

### **Water Resources**

The Water Conservation Program continued to implement water saving programs and incentives in accordance with best management practices and State-mandated water use reductions. For the month of January, a 2% reduction in water use was achieved, when compared to January 2013.

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

Drinking water treated and produced from the Delta Water Treatment Plant and groundwater wells, and then delivered from Stockton East Water District to the City's North, South, and Walnut Plant Systems, totaled approximately 454 million gallons for January and averaged approximately 15 million gallons per day.

The disinfectant in the North system was converted to chloramines on January 13, in order to comply with State and Federal disinfection byproduct regulations. The South and Walnut Plant service areas will continue to use free chlorine as a disinfectant in the distribution systems.

### **Wastewater Treatment**

The City has acquired the parcel of land adjacent to the Regional Wastewater Control Facility known as the Charter Way site. The #2 Schwing pump is being installed at the belt press building. The outfall control improvement project is moving forward. We have a 100% design submittal from the contractor and the project should go to bid soon. The sodium bisulfite for dechlorination testing is ongoing. Results are promising. Proper dosing and pump capacity are still being evaluated.

Programming upgrades have resulted in corrected plant influent flow totals. Operations is providing safety-training modules using the newly acquired learning management software in conjunction with the American Water College. Additional operator training modules are in development. Supervisory Control and Data Acquisition (SCADA) software has been implemented that will make alarm monitoring and response even more dependable.

The acute toxicity testing on plant effluent for January resulted in a 100% survival rate for the selected species. The Occupational Safety and Health Administration (OSHA) inspection that started in October is ongoing.

## **Wastewater Collections**

Eight Sanitary Sewer Overflows (SSOs) occurred. All eight were Category 3 SSOs (less than 1,000 gallons and did not get to a water body). All pipes and areas affected were cleaned to ensure capture and return of the pollutants to the sanitary sewer system. There were no odor complaints this month.

## **Environmental Control**

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

## **Laboratory**

The lab analyzed 785 samples for 2,426 analyses. Contract labs analyzed 147 samples for 412 analyses. There were 171 samples for NPDES Permit compliance, 233 samples for process control, and 381 samples for drinking water compliance.

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

## **Engineering**

There were nine development reviews received and 14 completed and returned.

Development of the FY16/17 Capital Improvement Program for MUD continued.

## **Stormwater**

There were 22 Stormwater inspections conducted at active construction sites. There were 11 Verbal Warnings, nine Correction Orders, and five Notices to Clean. No referrals were sent to the Regional Water Quality Control Board.

## **Administration**

There was one unsafe condition, zero vehicle accidents, and zero work-related injuries. There were 538 safety-training hours provided to staff this month through tailgate sessions and specialized training. Recruiting efforts have been active to fill openings due to resignations and retirements. Finding and retaining qualified candidates continues to be difficult. Current staff totals 195 of the approved 217 positions. Overtime increased from last month.

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# Water Resources

## Operational Activities

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

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

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

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

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

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

In January, the City achieved a 2% reduction in water consumption when compared to the same month in 2013.

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

### Outreach and Education

As part of the City's efforts to educate the community, customers are encouraged to notify the City when they witness water waste. This allows members of the community and staff to identify potential water leaks, excessive watering, and/or misuse of water supplies. This is done in an effort to work cooperatively toward a solution. There were 37 complaints received, and staff was able to resolve 30 complaints. Table 1.1 provides a summary of these activities.

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

The San Joaquin County Master Gardener Program held a workshop on January 9. This group will continue to meet monthly at the DWTP on the second Saturday of each month.

### School Programs

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

### Water Use Surveys

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

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

### Incentives and Rebates

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

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

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

#### Landscape Programs

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

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

There is an internet resource, [www.stockton.watersavingplants.com](http://www.stockton.watersavingplants.com), made available free of charge through the Water Conservation Program. This website provides information on water efficient gardens, resources, and watering tips. The site also allows users to plan their own water efficient garden online. This month, there were 169 visitors to the website.

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# Water Treatment, Production, and Distribution

## Operational Activities

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

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

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

### Regulatory

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

All sampling and monitoring pursuant to the Title 22 regulations was completed. A copy of the Title 22 monitoring results is included in Appendix A. The monthly coliform monitoring report was submitted to the State Water Resources Control Board Division of Drinking Water, Stockton Office on January 7. Table 2.1 presents a summary of the Coliform Monitoring results in the distribution system.

## **Water Treatment**

DWTP treated and produced 251 million gallons and SEWD delivered 39 and 75 million gallons to the North and South distribution systems, respectively. The plant met regulatory limits for Combined Filter Effluent (CFE), maintained at 0.1 Nephelometric Turbidity Units (NTU) at all times.

## **Water Production**

State Water Resource Control Board engineers performed inspections at well sites and three reservoir sites. Brothers Test Service provided cathodic protection inspections at the three reservoir sites.

Staff continued daily well/reservoir checks and maintenance throughout the month. Well production was 65 and 20 million gallons for the North and South systems, respectively. Operational status for existing wells is shown on Table 2.2.

### **Water Production Summary**

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

### **Production/Consumption Summary**

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

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

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

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

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

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

## Water Distribution

### Construction

Construction crews replaced eight 1-inch, two 1.5-inch, and two 2-inch service lines. Crews replaced a ¾" copper service line with 1" polyethylene. Crews repaired two 6-inch mains and replaced a 6-inch isolation valve. Construction staff continued to assist other crews replacing meters and repairing minor leaks when time permitted. Outside contractors were used twice during the month.

### Hydrant

Crews repaired 19 hydrants. Repairs consisted of cap, O-ring, valve gasket, chain, and coupler repair/replacement. Staff performed two fire flow tests. Table 2.8 presents a summary of the hydrant maintenance and other duties performed by the crew. Routine maintenance consisting of marker replacement, valve location and weed control continued.

### Customer Service

There were 48,853 water meters read for monthly billing. There were 787 meters turned-on or locked-off for account openings or closings. Crews responded to 16 high bill complaints. Staff continued to replace broken registers, repair damaged touch-read wires, and respond to various customer inquiries.

### Maintenance

Crews responded to 95 service calls consisting of small meter leaks, emergency customer water shutoffs, and answering customer water-related questions. Staff replaced 56 meters ranging from 5/8" to 2" in size and replaced 56 registers. Personnel cleared 32 catch basins during storm events throughout the month. Staff continued to assist construction crews on emergency service line repairs when needed.

### Distribution

Staff performed monthly backflow tests/surveys, valve exercising, and air relief valve maintenance. Table 2.9 presents a summary of the valve maintenance program. Crews took quarterly disinfection by-product (DBP) samples as well as weekly samples the State requires as part of our conversion to chloramine disinfection. Personnel performed cathodic protection surveys on our large transmission mains. Weekly bacteriological sampling continued throughout the month.

### System Connections

Table 2.10 presents a summary of new meter installations applied to the reading routes. There may be a delay in applying the meter to the route once it has been installed,

causing a difference from the actual number of new meter installations. The total number of active meter connections by size is presented in Table 2.11.

#### Water Quality Inquiries

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

#### Customer Services Operations

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

#### Cross Connection Control Program

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

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

# Wastewater Treatment

## Operational Activities

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

### Discharge Permit

Table 3.1 presents a summary of influent and effluent discharge averages as compared with the National Pollutant Discharge Elimination System (NPDES) permit limits. The RWCF treated an average flow of 28.9 million gallons per day (mgd). Figures 3.A, 3.B, and 3.C are graphical representations of the year-to-date actual values for the flow and loading parameters. Prior year data is also shown for comparison.

In December 2015, the Regional Water Quality Control Board approved amending the City's NPDES permit rescinding the Time Schedule Order for Trihalomethanes (THMs). Relief of the THM discharge limits was granted after providing technical justification for expanding the dilution credits of the Delta based on updated modeling, which factored in volatilization of the THMs.

### Residuals and Chemical Management

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

### Cake Solids

The Belt Filter Press is the wastewater treatment dewatering process that produces sludge cake solids. The sludge cake solids are collected, removed offsite, and applied to agricultural land. Figure 3.D presents actual values for the total percentage of cake solids produced. A second Schwing cake pump has been delivered and is scheduled for installation in February 2016. The two belt filter presses are running well. The new and refurbished presses and pumps are helping meet production, improve the operational efficiency of the plant, and reduce sludge hauling and disposal charges.

## **Odor Control Practices**

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

## **Oxidation Pond Levels**

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

## **Chemical and Utility Consumption**

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

# Wastewater Collection Systems

## Operational Activities

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

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

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

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

## Regional Water Quality Control Board (RWQCB)

Eight Sanitary Sewer Overflows (SSOs) occurred. All eight were Category 3 SSOs. All pipes and areas affected were cleaned to ensure capture and return of the pollutants to the sanitary sewer system.

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

Sanitary Sewer Overflows are categorized as follows:

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

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

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

dedicated stormwater or groundwater infiltration basin (e.g., infiltration pit, percolation pond).

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

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

## **Activities Summary**

### **Collection System**

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

### **Customer Service**

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

### **Residuals Management**

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

### **Odor Control Program**

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

### **Pumping Facilities**

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

In addition, the following work was performed:

- A check valve failed causing flooding at the Thornton & Davis Sanitary Pump Station.
- Emergency bypass pumping was set up due to flooding at the Thornton & Davis Sanitary Pump Station.
- Both electric motors for the Thornton & Davis Sanitary Pump Station were pulled and baked to remove the water.
- A coupler for the # 1 sewage pump at the Cumberland Sanitary Pump Station was repaired.

#### Wastewater Facility

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

- Replaced day tank feed valve in the belt press area of the Main Plant
- Replaced backwash valve 2A in the T-plant filter gallery
- Replaced Main Plant gravity belt thickener #2 dewatering belt
- Main Plant one water check valve #2 was removed, rebuilt, and replaced.

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# Environmental Control

## Operational Activities

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

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

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

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

## Reports/Statistics

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

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

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

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# Laboratory

## Operational Activities

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The Laboratory Division collects and analyzes samples for National Pollutant Discharge Elimination System (NPDES) permit compliance for the Wastewater Division, and analyzes and oversees contract lab analyses for Title 22 compliance for the Water Division. The Laboratory is accredited under the California State Water Resources Control Board, 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 (one position is currently vacant).

### Wastewater Sampling and Analyses

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

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

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

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

The next quarterly monitoring is scheduled for March 2016.

#### Effluent Ammonia Testing

The Waste Discharge Requirements (WDR) contains a requirement to monitor the treatment plant effluent three times a week. For December through March, the permit contains limits of monthly average (2.4 mg/L) and daily maximum (9.6 mg/L) requirements. There were no daily maximum limit exceedances as shown on Table 6.5. The monthly average was <1.0 mg/L, the monthly maximum was 2.7 mg/L.

### Drinking Water Sampling and Analysis

Routine domestic water quality for finished water and raw water wells was completed. No results exceeded regulatory limits.

## **Laboratory Operations**

The lab analyzed 785 samples for 2,426 analyses. Contract labs analyzed 147 samples for 412 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 171 samples for NPDES Permit compliance, 233 samples for process control, and 381 samples for drinking water compliance.

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

# Engineering

## Operational Activities

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

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

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

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

## Development Review Projects

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

- Improvement Plan – Zettie Miller's Haven, 1545 Rose Marie Lane
- Improvement Plant – Destinations Turnaround
- Request for Utility Service – 5708 S Manthey Road, French Camp
- Storm Water Quality Control Plan – 4932 Pacific Avenue
- Storm Water Quality Control Plan – Dollar Tree Distribution Center Addition
- Storm Water Quality Control Plan – Eight Mile Road Crossfit
- Storm Water Quality Control Plan – Zettie Miller's Haven, 1545 Rose Marie Lane
- Use Permit – 2700 Country Club Blvd
- Utility Service Verification– Upgrade Crosswalks and Signs

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

## **Capital Improvement Project Milestones**

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

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

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

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

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

### CAT Engine Replacement – Phase I & II (M08001)

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

### Pershing Sewer Crossing at the Calaveras River (M13005)

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

### Highway 99 at Farmington Fresh Sewer Replacement (M14034)

The project is in the design phase.

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

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

### Eighth Street Storm Water Pump Station (M13014)

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

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

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

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# Stormwater

## Operational Activities

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

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

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

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

- Inspecting businesses to ensure responsible stormwater-related practices
- Investigating and responding to illicit discharges

### Stormwater System

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

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

### Pumping Facilities

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

- The # 1 pump motor at the Center Street Overpass Storm Station was pulled and sent in for repairs.
- The #2 pump at the Somerset Storm Station was pulled to remove debris.
- A SCADA malfunction at the Lower Sacramento Road Storm Station has been repaired.
- The fountain at DeCarli Square was drained for the installation of new artwork.

Table 8.2 provides the Stormwater Pumping Facilities Work Order Summary Year 2015-2016.

### Permit Compliance

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

### Stormwater Inspections

Inspections of construction sites continue to be a priority for the City of Stockton. There were 22 stormwater inspections conducted at active construction sites. There were eleven verbal warnings, nine correction orders, and five notices to clean. No referrals were sent to the Regional Water Quality Control Board during this period.

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

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

# Administration

## Operational Activities

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

### Health and Safety

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

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

#### Safety Activities

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

There were 538 safety-training hours provided to staff through tailgate sessions and specialized training.

### Human Resources

#### Staffing Activities

Recruitment activities continue to fill vacated and recently approved positions. MUD is currently staffed at 195 of the approved 217 positions. Table 9.4 presents the staffing changes by division.

The status of various open positions is shown below.

Positions in Active Recruitment / Background Check / Civil Service Commission

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

Positions Filled / Department Transfer

- Collection Systems Operator (2)

Resignations / Separations / Retirements

- Plant Maintenance Machinist

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. Due to 24-hour shift work at the RWCF, overtime is expected to spike during holidays, closed days, and vacations to maintain adequate staffing for operations.

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

## **Regulatory Compliance**

The Regulatory Compliance Officer is responsible for assisting all Municipal Utilities Department divisions in achieving general compliance with local, state, and federal regulations originating from the Federal Clean Water Act, the Federal Safe Drinking Water Act, the Federal Clean Air Act, the Federal Resource Conservation and Recovery Act, and associated environmental laws. The Regulatory Compliance Officer coordinates with all local, state, and federal regulators, and MUD divisions, as well as

other City of Stockton departments to accomplish environmental compliance across the wastewater, drinking water, and stormwater utilities.

Inspections/Report Submissions

Industrial Railways Company performed the monthly inspection at the Tertiary Facility rail spur on January 11. There were no deficiencies identified.

The Hazardous Materials Management Materials Plan was updated on January 15.

Facility Tours

There were no tours of the RWCF and Tertiary Plant.

There were no tour of the Wetlands.

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## Reference

## Tables and Figures

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## Water Resources

Table 1.1 – Water Waste Complaints

| <i>Water Conservation</i>                         | <i>Month-to-Date</i> |             |               | <i>Fiscal Year-to-Date Completed</i> |
|---|----------------------|-------------|---------------|--------------------------------------|
|   | <i>New</i>           | <i>Open</i> | <i>Closed</i> |                                      |
| <b>Complaints</b>                                 |                      |             |               |                                      |
| Broken Sprinklers / Irrigation Leaks/ Other Leaks | 3                    | 0           | 3             | 65                                   |
| Over-irrigation / Water Run-off                   | 5                    | 3           | 2             | 152                                  |
| Watering during Restricted Hours                  | 3                    | 1           | 2             | 45                                   |
| Watering on a Restricted Day                      | 23                   | 3           | 20            | 829                                  |
| Invalid/Unable to Verify                          | 1                    | 0           | 1             | 21                                   |
| Other Conservation Calls                          | 2                    | 0           | 2             | 36                                   |
| <b>Totals</b>                                     | <b>37</b>            | <b>7</b>    | <b>30</b>     | <b>1148</b>                          |
| Pool Filling or Drain and Refill                  | 4                    | 0           | 4             | 41                                   |
| <b>Totals</b>                                     | <b>41</b>            | <b>7</b>    | <b>34</b>     | <b>1189</b>                          |

Table 1.2 – Water Conservation Outreach

| Description                    | Type        | Date(s) | Impressions |
|--------------------------------|-------------|---------|-------------|
| Stockton.watersavingplants.com | Website     | January | 169         |
| Utility Bill Insert            | Print Media | January | 0           |

Table 1.3 – Water Conservation Surveys

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

Table 1.4 – Water Saving Devices

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

Table 1.5 – HET Direct Install Program

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

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## Water Treatment, Production, and Distribution

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Table 2.1 - Summary Coliform Monitoring

| <i>Routine Samples</i> | <i># Required</i> | <i># Taken</i> | <i>Total Coliform Positive</i> | <i>E. Coli Positive</i> |
|------------------------|-------------------|----------------|--------------------------------|-------------------------|
| North System           | 121               | 121            | 2                              | 0                       |
| Walnut Plant           | 1                 | 1              | 0                              | 0                       |
| South System           | 24                | 24             | 0                              | 0                       |

Table 2.2 – Well Operational Status

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

Table 2.3 – Production Summary (in Million Gallons)

|   | System       | July          | Aug           | Sept          | Oct           | Nov           | Dec           | Jan           | Feb         | Mar         | Apr         | May         | June        | Year to Date    |
|---|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-------------|-------------|-------------|-------------|-------------|-----------------|
| ■ | No. Sys      | 188.57        | 221.80        | 172.46        | 225.32        | 77.90         | 45.72         | 64.90         |             |             |             |             |             | 996.67          |
| ■ | So. Sys      | 60.17         | 0.52          | 4.38          | 27.36         | 1.25          | 0.00          | 20.26         |             |             |             |             |             | 113.94          |
| ■ | DWTP         | 654.19        | 526.24        | 532.05        | 412.57        | 169.81        | 123.07        | 251.21        |             |             |             |             |             | 2,669.14        |
| ■ | SEWD WP      | 5.69          | 5.41          | 6.13          | 5.76          | 5.26          | 4.50          | 3.95          |             |             |             |             |             | 36.70           |
| ■ | SEWD/North   | 9.70          | 43.50         | 31.57         | 12.82         | 189.45        | 226.84        | 38.95         |             |             |             |             |             | 552.83          |
| ■ | SEWD/South   | 57.13         | 168.45        | 159.15        | 113.33        | 109.50        | 99.63         | 74.61         |             |             |             |             |             | 781.80          |
|   | <b>Total</b> | <b>975.45</b> | <b>965.92</b> | <b>905.74</b> | <b>797.16</b> | <b>553.17</b> | <b>499.76</b> | <b>453.88</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>5,151.08</b> |

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

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

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

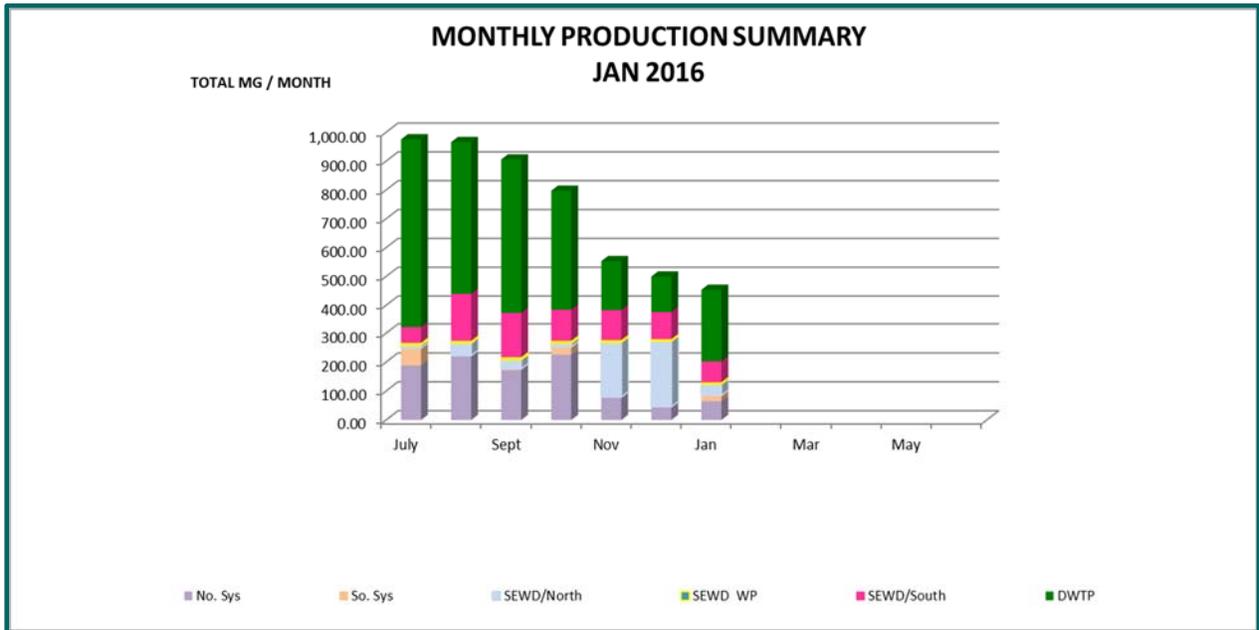
Table 2.3A – DWTP Influent by Water Source (in Million Gallons)

| DWTP Influent by Source | JUL    | AUG    | SEP    | OCT    | NOV    | DEC   | JAN    | FEB | MAR | APR | MAY | JUN | YTD      |
|-------------------------|--------|--------|--------|--------|--------|-------|--------|-----|-----|-----|-----|-----|----------|
| San Joaquin River/Delta | 322.42 | 426.26 | 423.81 | 312.42 | 123.83 | 85.92 | 251.86 |     |     |     |     |     | 1,946.52 |
| Mokelumne River/WID     | 214.01 | -      | 0.00   | -      | 0.01   | -     | -      |     |     |     |     |     | 214.03   |
| Total Influent (DWTP)   | 536.43 | 426.26 | 423.81 | 312.42 | 123.85 | 85.92 | 251.86 | -   | -   | -   | -   | -   | 2,160.55 |

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

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

Figure 2.A – Production Summary



Production Summary Comparison Year 2014-2015

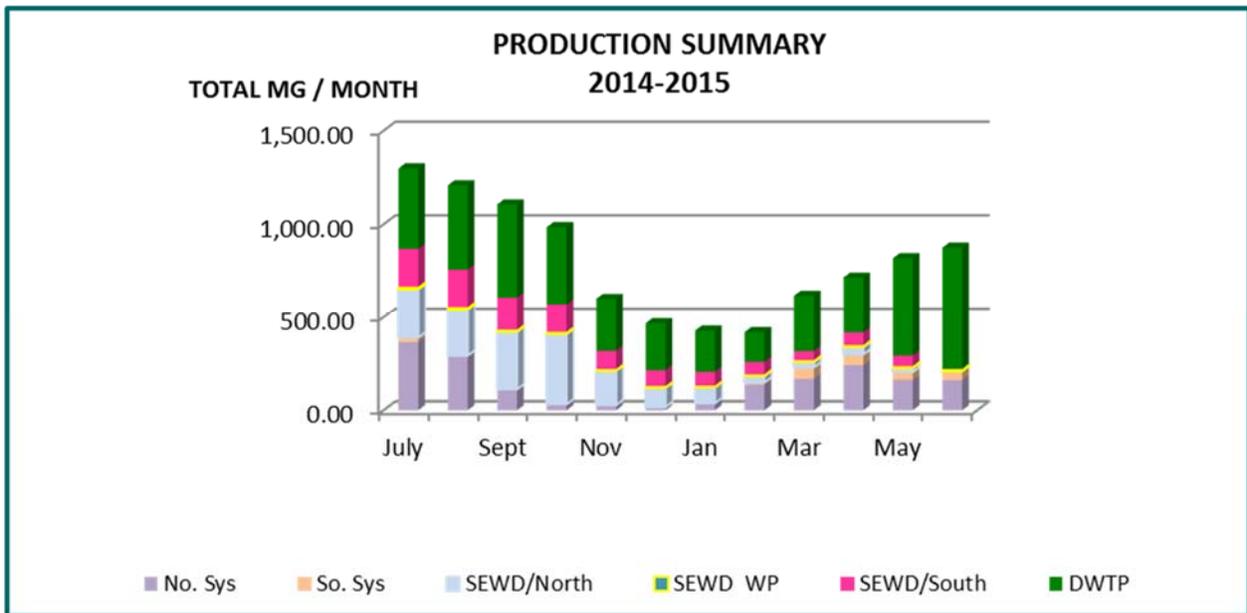


Table 2.4 – City of Stockton Water Systems –Production Summaries

| PRODUCTION (Million Gallons)                                 | JUL    | AUG    | SEP    | OCT    | NOV    | DEC    | JAN    | FEB | MAR | APR | MAY | JUN | YTD      |
|--|--------|--------|--------|--------|--------|--------|--------|-----|-----|-----|-----|-----|----------|
| City System Potable Water Production                         |        |        |        |        |        |        |        |     |     |     |     |     |          |
| City North System Wells                                      | 188.57 | 221.80 | 172.46 | 225.32 | 77.90  | 45.72  | 64.90  |     |     |     |     |     | 996.67   |
| City South System Wells                                      | 60.17  | 0.52   | 4.38   | 27.36  | 1.25   | -      | 20.26  |     |     |     |     |     | 113.94   |
| Delta Water Treatment Plant                                  | 654.19 | 526.24 | 532.05 | 412.57 | 169.81 | 123.07 | 251.21 |     |     |     |     |     | 2,669.14 |
| MLK Diamond & Filbert Interconnect (SEWD) City Walnut System | 5.69   | 5.41   | 6.13   | 5.76   | 5.26   | 4.50   | 3.95   |     |     |     |     |     | 36.70    |
| Stockton East Water District (SEWD) City/County North System | 9.70   | 43.50  | 31.57  | 12.82  | 189.45 | 226.84 | 38.95  |     |     |     |     |     | 552.83   |
| Stockton East Water District (SEWD) City South System        | 57.13  | 168.45 | 159.15 | 113.33 | 109.50 | 99.63  | 74.61  |     |     |     |     |     | 781.80   |
| Total City System  | 975.45 | 965.92 | 905.74 | 797.16 | 553.17 | 499.76 | 453.88 | -   | -   | -   | -   | -   | 5,151.08 |
| System - Nonpotable Water Production                         |        |        |        |        |        |        |        |     |     |     |     |     |          |
| Recycle Water (Reclaimed WW)                                 | -      |        |        |        |        |        |        |     |     |     |     |     | -        |
| Total Production   | 975.45 | 965.92 | 905.74 | 797.16 | 553.17 | 499.76 | 453.88 | -   | -   | -   | -   | -   | 5,151.08 |

## 2014-2015 –Production Summaries

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

Table 2.5 – City of Stockton Water Systems –Consumption Summaries

| (Million Gallons)  | JUL           | AUG           | SEP           | OCT           | NOV           | DEC           | JAN          | FEB | MAR | APR | MAY | JUN | YTD             |
|--|---------------|---------------|---------------|---------------|---------------|---------------|--------------|-----|-----|-----|-----|-----|-----------------|
| <b>City System - Metered Consumption</b>                             |               |               |               |               |               |               |              |     |     |     |     |     |                 |
| Single Family Residential  | 521.55        | 501.91        | 451.90        | 443.00        | 353.84        | 273.55        | N/A          |     |     |     |     |     | 2,545.75        |
| Multi-family Residential   | 85.38         | 84.67         | 79.40         | 75.87         | 68.86         | 60.02         | N/A          |     |     |     |     |     | 454.20          |
| Commercial/Institutional   | 135.22        | 130.94        | 113.43        | 118.68        | 91.54         | 71.09         | N/A          |     |     |     |     |     | 660.90          |
| Irrigation   | 93.91         | 94.08         | 91.70         | 89.91         | 51.98         | 16.38         | N/A          |     |     |     |     |     | 437.96          |
| Non-potable Water  | -             | -             | -             | -             | -             | -             | -            |     |     |     |     |     | -               |
| Const/Hydrant/Jumpers/Load Counts                                    | 0.75          | 1.61          | 0.38          | 0.20          | 0.17          | 0.32          | 0.58         |     |     |     |     |     | 4.01            |
| Other (Industrial)   | 23.48         | 19.91         | 20.89         | 20.52         | 17.30         | 19.25         | N/A          |     |     |     |     |     | 121.35          |
| <b>Subtotal Metered</b>  | <b>860.29</b> | <b>833.12</b> | <b>757.70</b> | <b>748.18</b> | <b>583.69</b> | <b>440.61</b> | <b>0.58</b>  | -   | -   | -   | -   | -   | <b>4,224.17</b> |
| <b>City System - Unmetered Consumption</b>                           |               |               |               |               |               |               |              |     |     |     |     |     | -               |
| Main Line / Service Repair Losses                                    | 0.76          | 0.21          | 1.30          | 0.22          | 0.38          | 0.36          | 0.60         |     |     |     |     |     | 3.83            |
| Commercial/Residential Construction Usage                            | 0.01          | 0.01          | 0.01          | 0.01          | 0.01          | 0.01          | 0.01         |     |     |     |     |     | 0.07            |
| City Trucks/Parks Trucks/Street Sweepers                             | 0.06          | 0.07          | 0.09          | 0.06          | 0.06          | 0.08          | 0.09         |     |     |     |     |     | 0.51            |
| Hydrant / Blow-off Flushing  | 0.01          | 0.02          | 0.04          | 0.01          | 0.02          | 0.02          | 0.03         |     |     |     |     |     | 0.15            |
| System Flushing  | 0.14          | 0.10          | 0.01          | 0.30          | 0.80          | 0.03          | 0.34         |     |     |     |     |     | 1.72            |
| City Fire Dept. Fire Flow  | 0.01          | 0.01          | 0.01          | 0.01          | 0.01          | 0.04          | 0.02         |     |     |     |     |     | 0.11            |
| City Fire Dept. Training/Equip Testing                               | 0.01          | 0.01          | 0.01          | 0.01          | 0.01          | 0.01          | 0.01         |     |     |     |     |     | 0.07            |
| <b>Subtotal Unmetered</b>  | <b>1.00</b>   | <b>0.43</b>   | <b>1.47</b>   | <b>0.62</b>   | <b>1.29</b>   | <b>0.55</b>   | <b>1.10</b>  | -   | -   | -   | -   | -   | <b>6.46</b>     |
| <b>Total City System</b>   | <b>861.29</b> | <b>833.55</b> | <b>759.17</b> | <b>748.80</b> | <b>584.98</b> | <b>441.16</b> | <b>1.68</b>  | -   | -   | -   | -   | -   | <b>4,230.63</b> |
| <b>Water Wheeled &amp; Wholesaled<br/>(S J County Interconnects)</b> |               |               |               |               |               |               |              |     |     |     |     |     |                 |
| Metered to San Joaquin County  | 66.78         | 43.97         | 51.77         | 46.03         | 27.18         | 24.38         | 24.91        |     |     |     |     |     | 285.02          |
| <b>Total Wheeled &amp; Wholesaled</b>                                | <b>66.78</b>  | <b>43.97</b>  | <b>51.77</b>  | <b>46.03</b>  | <b>27.18</b>  | <b>24.38</b>  | <b>24.91</b> | -   | -   | -   | -   | -   | <b>285.02</b>   |

## 2014-2015–Consumption Summaries

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

Table 2.6 – Chemical Consumption Summary

| Water Production System               | JUL       | AUG       | SEP       | OCT      | NOV      | DEC       | JAN      | FEB | MAR | APR | MAY | JUN | YTD        |
|---------------------------------------|-----------|-----------|-----------|----------|----------|-----------|----------|-----|-----|-----|-----|-----|------------|
| North Wells                           |           |           |           |          |          |           |          |     |     |     |     |     |            |
| Chlorine Gas, Lbs.                    | 835.00    | 1,197.00  | 1,181.00  | 1,138.00 | 555.00   | 409.00    | 512.00   |     |     |     |     |     | 5,827.00   |
| South Wells                           |           |           |           |          |          |           |          |     |     |     |     |     | -          |
| Chlorine Gas, Lbs.                    | 206.00    | 40.00     | 131.00    | 141.00   | 62.00    | 59.00     | 191.00   |     |     |     |     |     | 830.00     |
| Delta Water Treatment Plant           |           |           |           |          |          |           |          |     |     |     |     |     | -          |
| Ammonia Gal                           | -         | -         | -         | -        | -        | -         | 736.02   |     |     |     |     |     |            |
| Liquid Oxygen, Gal.                   | 367.20    | 356.40    | 388.80    | 306.00   | 165.60   | 640.80    | 5,536.80 |     |     |     |     |     | 7,761.60   |
| Sodium Hypochlorite, Gal.             | 10,731.38 | 21,804.16 | 14,480.76 | 9,713.92 | 4,280.94 | 35,912.12 | 8,427.56 |     |     |     |     |     | 105,350.84 |
| Sodium Hydroxide (Caustic Soda), Gal. | 5,133.80  | 8,546.89  | 6,047.50  | 4,649.21 | 1,599.66 | -         | 482.22   |     |     |     |     |     | 26,459.28  |
| Aluminum Chlorohydrate (ACH), Gal.    | 13,755.95 | 8,468.46  | 8,815.32  | 6,082.74 | 3,942.36 | 2,918.70  | 5,803.56 |     |     |     |     |     | 49,787.09  |
| Corrosion Inhibitor, Gal              | 29.61     | -         | -         | 1,059.62 | 406.08   | 8.46      | 63.45    |     |     |     |     |     | 1,567.22   |
| Citric Acid, Gal.                     | 105.60    | 92.00     | 112.00    | 88.00    | 41.60    | 107.20    | 88.00    |     |     |     |     |     | 634.40     |
| Sulfuric Acid, Gal.                   | 164.00    | 139.20    | 120.00    | 72.00    | 32.00    | 28.80     | 60.80    |     |     |     |     |     | 616.80     |
| Sodium Bisulfite, Gal.                | 17.60     | 17.60     | 26.40     | 19.20    | 8.00     | 21.60     | 37.60    |     |     |     |     |     | 148.00     |

2014-2015– Chemical Consumption Summary

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

Table 2.7 – Utility Consumption Summary

| CONSUMPTION                             | JUL     | AUG     | SEP     | OCT     | NOV     | DEC     | JAN     | FEB | MAR | APR | MAY | JUN | YTD       |
|---|---------|---------|---------|---------|---------|---------|---------|-----|-----|-----|-----|-----|-----------|
| <b>North</b>                            |         |         |         |         |         |         |         |     |     |     |     |     |           |
| N. Well Electricity, KWH                | 255,136 | 368,313 | 233,644 | 304,697 | 108,343 | 86,136  | 306,533 |     |     |     |     |     | 1,662,802 |
| N. Reservoir Electricity, KWH           | 69,080  | 73,300  | 75,080  | 65,800  | 46,440  | 60,120  | 52,880  |     |     |     |     |     | 442,700   |
| Electricity, KWH                        | 324,216 | 295,013 | 308,724 | 370,497 | 154,783 | 146,256 | 359,413 |     |     |     |     |     | 1,958,902 |
| Natural Gas, 1,000 Ft                   | -       | 316     | 7       | -       | 1       | -       | -       |     |     |     |     |     | 324       |
| <b>South</b>                            |         |         |         |         |         |         |         |     |     |     |     |     |           |
| S. Well Electricity, KWH                | 74,176  | 3,147   | 6,789   | 35,154  | 3,684   | 2,525   | 26,820  |     |     |     |     |     | 152,295   |
| S. Reservoir Electricity, KWH           | 13,600  | 15,360  | 15,360  | 9,600   | 8,640   | 14,880  | 14,240  |     |     |     |     |     | 91,680    |
| S. Cl2 Booster Station, KWH             | 30      | 34      | 38      | 51      | 108     | 141     | 112     |     |     |     |     |     | 514       |
| Electricity, KWH                        | 87,806  | 18,541  | 22,187  | 44,805  | 12,332  | 17,546  | 41,172  |     |     |     |     |     | 244,389   |
| Natural Gas, 1,000 Ft                   | -       | -       | -       | -       | -       | -       | -       |     |     |     |     |     | -         |
| <b>Delta Water Treat Plant</b>          |         |         |         |         |         |         |         |     |     |     |     |     |           |
| Electricity Used, KWH (Intake)          | 114,240 | 154,880 | 174,880 | 114,880 |         | 14,720  | 68,320  |     |     |     |     |     | 641,920   |
| Electricity Used, KWH (Treatment Plant) | 712,000 | 552,000 | 518,000 | 410,000 | 346,000 | 112,000 | 318,000 |     |     |     |     |     | 2,968,000 |
| Electricity Generated, KWH (Solar)      | 20,030  | 16,290  | 10,950  | 10,690  | 8,120   | 5,820   | 5,610   |     |     |     |     |     | 77,510    |
| DWTP Total Electricity Used             |         |         |         |         |         |         |         |     |     |     |     |     | -         |
| <b>OUTAGES</b>                          |         |         |         |         |         |         |         |     |     |     |     |     |           |
| <b>North Wells</b>                      |         |         |         |         |         |         |         |     |     |     |     |     |           |
| Electricity                             | -       | -       | -       | -       | -       | -       | -       |     |     |     |     |     | -         |
| Natural Gas                             | -       | -       | -       | -       | -       | -       | -       |     |     |     |     |     | -         |
| <b>South Wells</b>                      |         |         |         |         |         |         |         |     |     |     |     |     |           |
| Electricity                             | -       | -       | -       | -       | -       | -       | -       |     |     |     |     |     | -         |
| Natural Gas                             | -       | -       | -       | -       | -       | -       | -       |     |     |     |     |     | -         |
| <b>Description of Outages</b>           |         |         |         |         |         |         |         |     |     |     |     |     |           |

## 2014-2015– Utility Consumption Summary

| CONSUMPTION                             | JUL     | AUG     | SEP     | OCT     | NOV     | DEC     | JAN     | FEB     | MAR     | APR     | MAY     | JUN     | YTD       |
|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----------|
| <b>North</b>                            |         |         |         |         |         |         |         |         |         |         |         |         |           |
| N. Well Electricity, KWH                | 572,088 | 465,061 | 149,724 | 49,927  | 41,798  | 33,142  | 56,961  | 189,128 | 233,796 | 319,891 | 227,938 | 297,128 | 2,636,582 |
| N. Reservoir Electricity, KWH           | 75,500  | 93,980  | 70,980  | 76,560  | 78,900  | 89,140  | 79,300  | 52,980  | 55,200  | 57,580  | 50,440  | 56,000  | 836,560   |
| Electricity, KWH                        | 647,588 | 559,041 | 220,704 | 126,487 | 120,698 | 122,282 | 136,261 | 242,108 | 288,996 | 377,471 | 278,378 | 353,128 | 3,473,142 |
| Natural Gas, 1,000 Ft                   | -       | -       | -       |         |         |         |         |         |         |         |         |         | -         |
| <b>South</b>                            |         |         |         |         |         |         |         |         |         |         |         |         |           |
| S. Well Electricity, KWH                | 23,520  | 7,330   | 11,029  | 7,582   | 5,849   | 6,545   | 11,961  | 20,179  | 78,446  | 71,964  | 20,535  | 85,048  | 349,988   |
| S. Reservoir Electricity, KWH           | 33,295  | 23,520  | 25,280  | 22,080  | 15,200  | 22,240  | 29,920  | 19,040  | 18,720  | 16,640  | 14,400  | 14,080  | 254,415   |
| S. C12 Booster Station, KWH             | 21      | 19      | 19      | 19      | 15      | 202     | 274     | 86      | 243     | 71      | -       | 127     | 1,096     |
| Electricity, KWH                        | 56,836  | 30,869  | 36,328  | 29,681  | 21,064  | 28,987  | 42,155  | 39,305  | 97,409  | 88,675  | 34,935  | 99,255  | 605,499   |
| Natural Gas, 1,000 Ft                   | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       | -         |
| <b>Delta Water Treat Plant</b>          |         |         |         |         |         |         |         |         |         |         |         |         |           |
| Electricity Used, KWH (Intake)          | 42,880  | 69,120  | 42,240  | 36,320  | 88,960  | 61,440  | 61,120  | 19,200  | 73,920  | -       | -       | -       | 495,200   |
| Electricity Used, KWH (Treatment Plant) | 522,000 | 552,000 | 650,000 | 546,000 | 364,000 | 306,000 | 318,000 | 178,000 | 438,000 | 364,000 | 468,000 | 752,000 | 5,458,000 |
| Electricity Generated, KWH (Solar)      | 17,220  | 15,330  | 11,440  | 10,780  | 6,910   | 4,680   | 5,890   | 8,460   | 13,880  | 18,510  | 20,040  | 20,980  | 154,120   |
| DWTP Total Electricity Used             | 547,660 | 605,790 | 680,800 | 571,540 | 446,050 | 362,760 | 373,230 | 188,740 | 498,040 | 345,490 | 447,960 | 731,020 | 5,799,080 |
| <b>OUTAGES</b>                          |         |         |         |         |         |         |         |         |         |         |         |         |           |
| <b>North Wells</b>                      |         |         |         |         |         |         |         |         |         |         |         |         |           |
| Electricity                             | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       | -         |
| Natural Gas                             | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       | -         |
| <b>South Wells</b>                      |         |         |         |         |         |         |         |         |         |         |         |         |           |
| Electricity                             | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       | -         |
| Natural Gas                             | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       | -         |
| Description of Outages                  |         |         |         |         |         |         |         |         |         |         |         |         |           |

Table 2.8 – Hydrant Maintenance

|                                | <i>Current Month</i> | <i>Fiscal YTD</i> |
|--------------------------------|----------------------|-------------------|
| Hydrant Repairs                |                      |                   |
| Leaks                          | 12                   | 70                |
| Vehicle Accidents              | 4                    | 24                |
| Routine Maintenance Repair     | 3                    | 54                |
| Painted Hydrant                | 0                    | 1                 |
| Installed New/Replaced Hydrant | 0                    | 10                |
| Assist Fire Department         | 0                    | 0                 |
| Emergency Fire Response        | 0                    | 1                 |
| Fire Flow Test                 | 2                    | 3                 |
| Removed Hydrant/Spool          | 0                    | 0                 |
| Relocated Hydrant              | 0                    | 0                 |
| Gate Valve Maintenance         | 0                    | 0                 |

Table 2.9 – Valve Maintenance Program

|                                     | <i>Current Month</i> | <i>Fiscal YTD</i> | <i># of Valves in System</i> |
|-------------------------------------|----------------------|-------------------|------------------------------|
| Air Relief Valves Inspected         | 22                   | 65                | 198                          |
| Distribution Valves Located         | 0                    | 4                 | 10,491                       |
| Distribution Valves Exercised       | 11                   | 216               | 10,491                       |
| Distribution Valves Installed (New) | 0                    | 1                 | 10,491                       |
| Blow-off Valves Flushed             | 0                    | 1                 | 1,282                        |
| Valves Repaired (all types)         | 1                    | 11                | 11,971                       |

Table 2.10 – Service Connections

| <i>Meters Applied to Routes- Current Month</i>                     |        |
|--|--------|
| Meters Applied to Routes - Fiscal Year-to-Date                     | 181    |
| Total Number of Service Meters in Water System (Active + Inactive) | 48,853 |

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

| Meter Size<br>(in inches) | Residential   | Industrial | Commercial /<br>Institutional | Irrigation |
|---------------------------|---------------|------------|-------------------------------|------------|
| 5/8                       | 1,800         | 0          | 14                            | 15         |
| 3/4                       | 25,270        | 14         | 211                           | 74         |
| 1                         | 18,423        | 0          | 244                           | 147        |
| 1½                        | 259           | 0          | 230                           | 161        |
| 2                         | 257           | 2          | 604                           | 435        |
| 3                         | 12            | 0          | 69                            | 25         |
| 4                         | 7             | 3          | 46                            | 20         |
| 6                         | 5             | 1          | 18                            | 2          |
| 8                         | 0             | 0          | 5                             | 0          |
| 10                        | 0             | 0          | 2                             | 0          |
| 12                        | 0             | 0          | 2                             | 0          |
| <b>Totals</b>             | <b>46,033</b> | <b>20</b>  | <b>1,445</b>                  | <b>879</b> |

Table 2.12 – Water Quality Inquiry Summary

| Inquiry          | Quantity | Follow-up Action   |
|------------------|----------|--|
| Taste / Odor     | (none)   |  |
| Color            | 1        | -1- Complaint of brown water. Operator advised to flush water until clear and call back if problem continues. Customer cleared line. |
| Turbidity        | (none)   |  |
| Suspended Solids | (none)   |  |
| Pressure         | 3        | -3- Complaints of low pressure at inside faucets. Operator spoke to customers and advised cleaning aerators.                         |
| Sediment         | (none)   |  |
| Air              | (none)   |  |
| Sand             | (none)   |  |
| Miscellaneous    | (none)   |  |
| Inquiry          | (none)   |  |

Table 2.13 – Customer Services Summary

| <i>Customer Service Operations</i>       | <i>Current Month</i> |
|--|----------------------|
| Residential Meter Routes                 | 90                   |
| Commercial Meter Routes                  | 13                   |
| Estimated Meter Reads by Utility Billing | 0                    |
| Total Meters Read                        | 48,853               |
| Number of Check Reads (All Routes)       | 231                  |
| Number of Service Turn-on/Turn-offs      | 787                  |

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

| <i>2016</i>                 | <i>Beginning of Year</i> | <i>This Month</i> | <i>Year to Date</i> |
|-----------------------------|--------------------------|-------------------|---------------------|
| Total Devices in COS System | 2,801                    |                   | 2,801               |
| Due for Testing to Date     |                          |                   | 490                 |
| Tested to Date              |                          |                   | 321                 |
| Outstanding                 |                          |                   | 169                 |
| Installed/Added             |                          | 1                 | 0                   |
| Reactivated                 |                          | 0                 | 0                   |
| Inactivated from Cos System |                          | 1                 | 0                   |

Table 2.15 – Cross Connection Control Program Surveys

|                               | <i>Surveyed</i> | <i>Surveyed Fiscal Year-to-Date</i> |
|-------------------------------|-----------------|-------------------------------------|
| Customer Connections Surveyed | 5               | 39                                  |

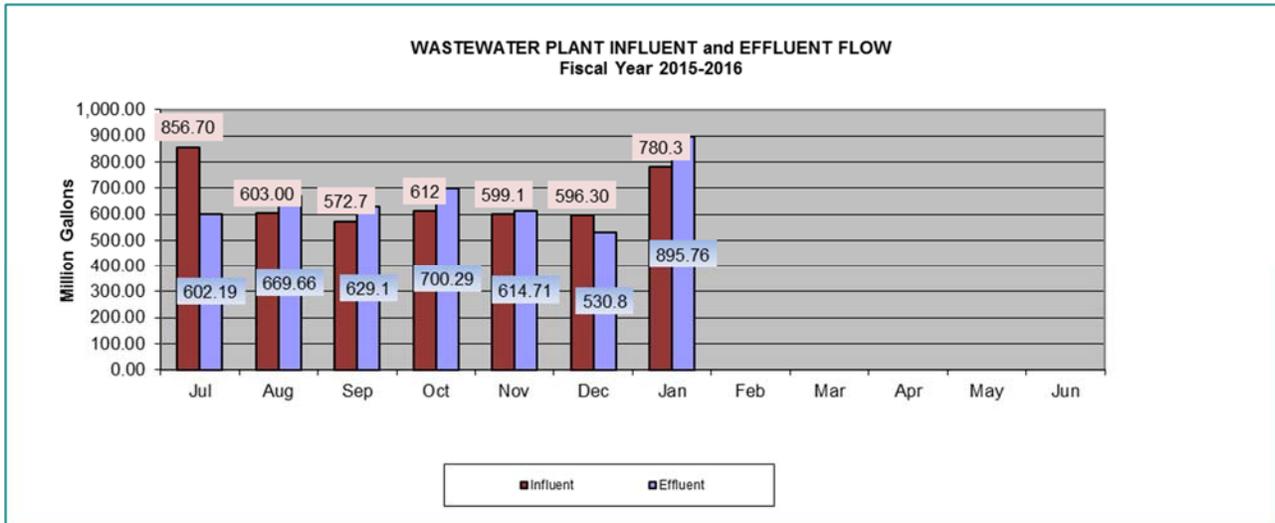
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## Wastewater Treatment

Table 3.1 – Summary of Influent and Effluent Parameters

| <i>Influent Parameters</i>                 | <i>Actual Month Average</i> |   |
|--|-----------------------------|---|
| Flow, MGD                                  | 25.2                        |   |
| cBOD, mg/L                                 | 330                         |   |
| TSS, mg/L                                  | 290                         |   |
| Effluent Parameters                        | Actual Month Average        | NPDES Permit Limit Monthly Average  |
| Flow, MGD                                  | 28.9                        | 55<br>Average Dry Weather Flow  |
| cBOD, mg/L                                 | <2.0                        | 10  |
| cBOD Removal, %                            | >99.3                       | 85  |
| TSS, mg/L                                  | <2.5                        | 10  |
| TSS Removal, %                             | > 99.1                      | 85  |
| Ammonia, mg/L                              | <1.2                        | 1.2 - April 1 – October 31<br>2.3 - November 1 – November 30<br>2.4 - December 1 – March 31             |
| Turbidity (NTU)                            | 1.5<br>0.7- 2.8             | 2 (daily average)<br>Daily maximum limit<br>> 5 NTU no more than 3 mins/hr or<br>72 mins/24 hr run time |
| pH, standard units (Min/Max)               | 6.6- 7.3                    | 6.5 – 8.5   |
| DO, mg/L (Min. Daily Average)              | 9.6                         | 6.0<br>01-Dec. thru 31- Aug.  |
| Ponds, Free Board, feet<br>(Daily Average) | 1.87- 2.71                  | >= 2 feet (Daily Avg)<br>No less than 1.0 ft (Daily Max)  |

Figure 3.A – Wastewater Plant Influent and Effluent Flow



Wastewater Plant Influent and Effluent Flow Comparison Year 2014-2015

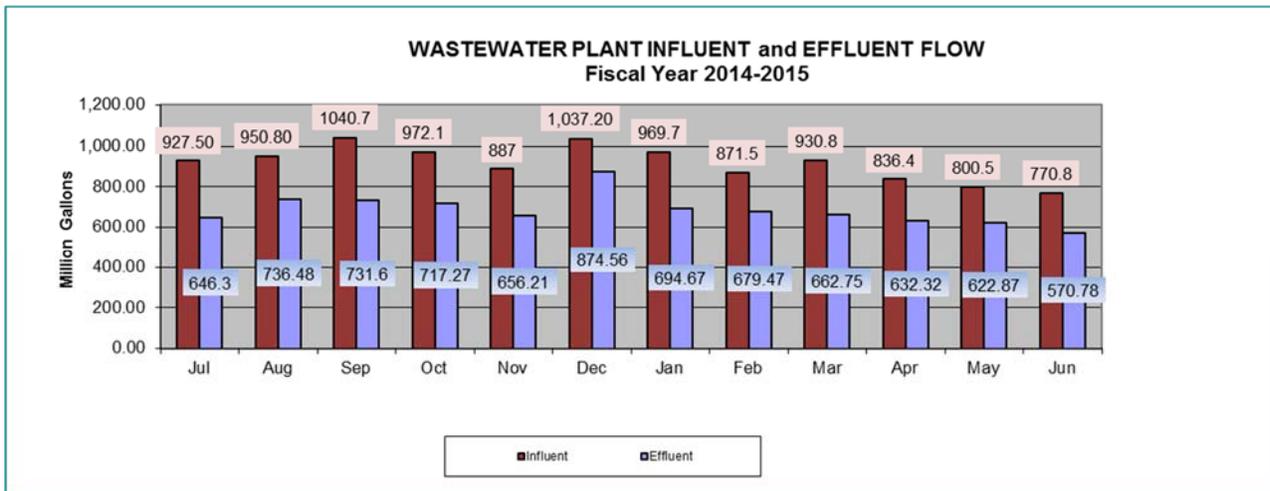
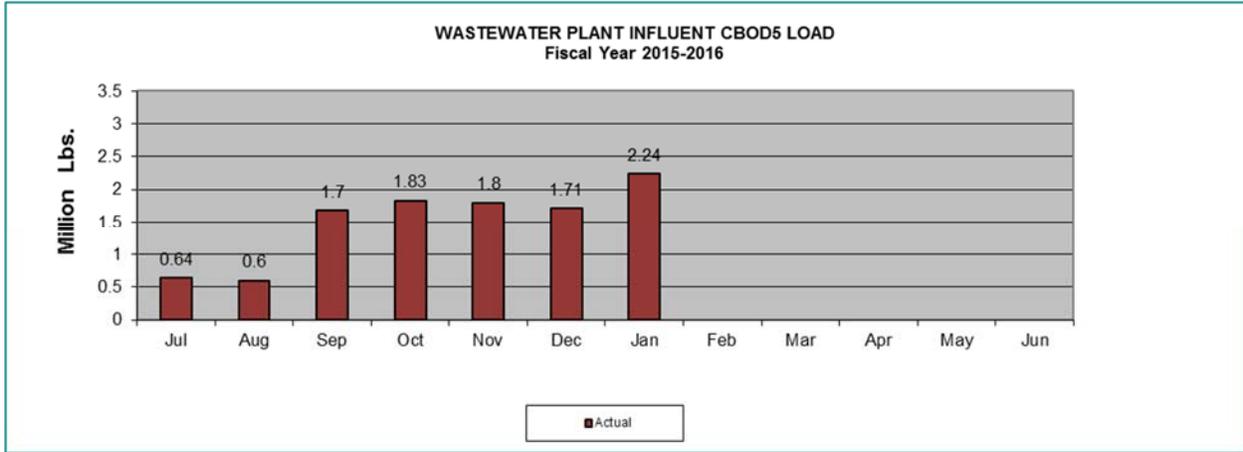


Figure 3.B – Wastewater Plant Influent CBOD5 Load



Wastewater Plant Influent CBOD5 Load Comparison Year 2014-2015

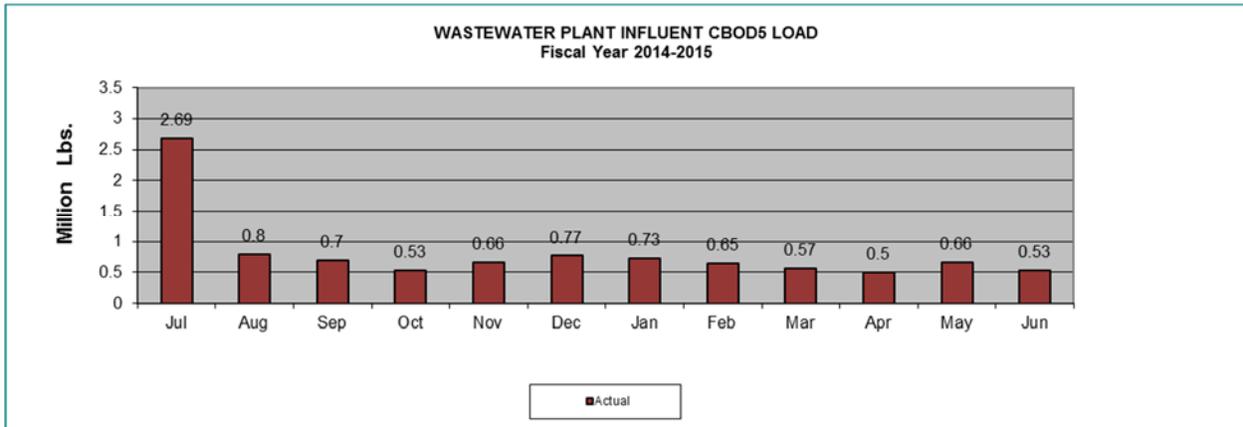
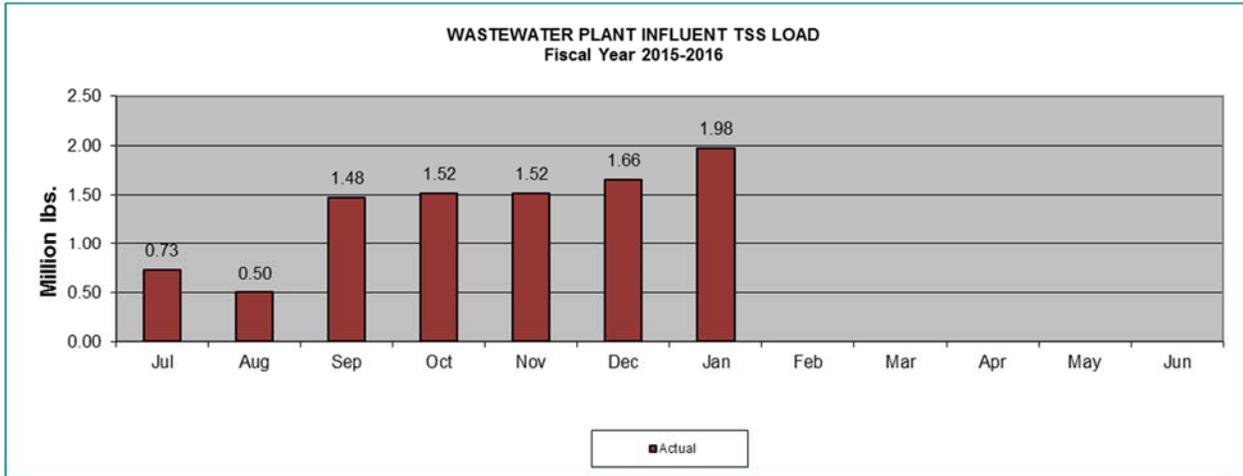


Figure 3.C – Wastewater Plant Influent TSS Load



Wastewater Plant Influent TSS Load Comparison Year 2014-2015

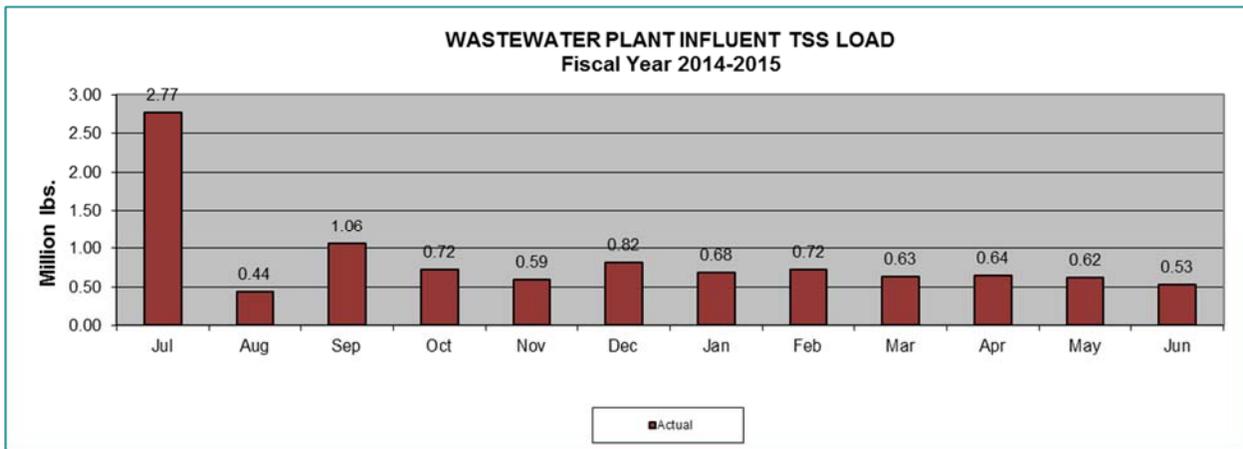
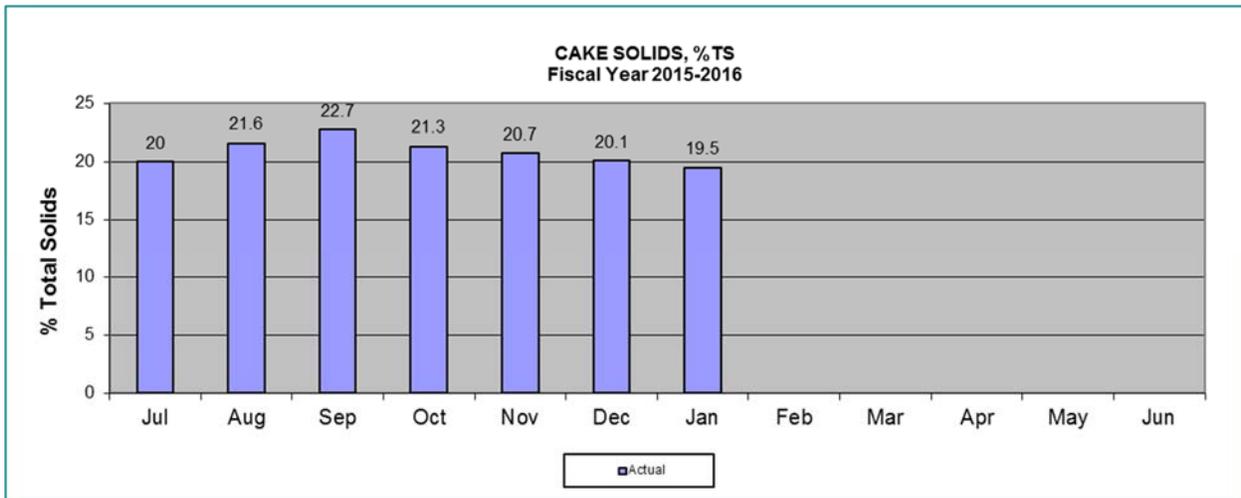


Table 3.2 – Residuals and Chemical Management Summary for Biosolids

| Digester Biosolids           | Current Month | Fiscal Year-to-Date |
|------------------------------|---------------|---------------------|
| Total Feed, gals.            | 4,030,664     | 30,324,874          |
| Total Gas Production, CuFt.  | 17,478,800    | 114,511,000         |
| Sludge Lagoon, gals.         | 0             | 0                   |
| Ferric Chloride, gal.        | 5,943         | 48,856              |
| Ferric Chloride (EPT), lbs.  | 5,975         | 39,642              |
| <b>Dewatered Biosolids</b>   |               |                     |
| Total Feed, gals.            | 4,611,854     | 25,166,721          |
| Polymer, lbs.                | 61,417        | 491,187             |
| Cake, Wet Tons               | 2,116         | 10,965              |
| Biosolids Truck Loads Hauled | 86            | 521                 |

Figure 3.D – Cake Solids



Cake Solids Comparison Year 2014-2015

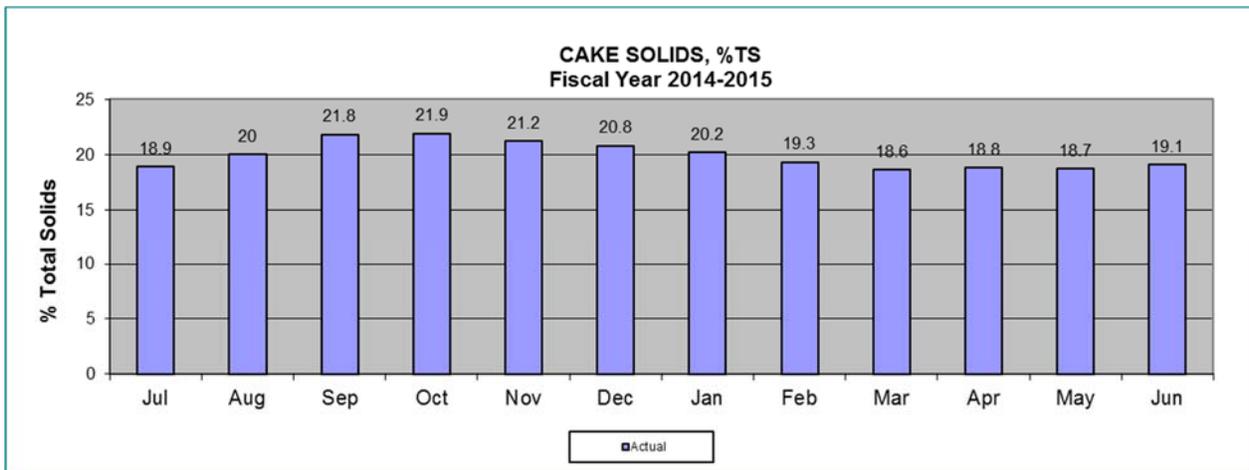


Table 3.3 – Summary of Tertiary Pond Operating Levels

| Tertiary Pond     | Start Freeboard | End Freeboard             | Reserve Capacity<br>(Million Gallons) |
|-------------------|-----------------|---------------------------|---------------------------------------|
| Pond #1 (190 ac.) | 1.77            | 2.19                      | 135.59                                |
| Pond #2 (135 ac.) | 2.62            | 3.03                      | 123.42                                |
| Pond #3 (125 ac.) | 2.29            | 2.74                      | 120.53                                |
|                   |                 | <b>Total</b>              | <b>379.53</b>                         |
|                   |                 | <b>Total Reserve Days</b> | <b>13.16</b>                          |

Table 3.4 – Chemical Consumption Summary – Tertiary Facility

| Chemical Used          | Jul     | Aug     | Sep     | Oct     | Nov     | Dec     | Jan     | Feb | Mar | Apr | May | Jun | Fiscal Year-to-Date |
|------------------------|---------|---------|---------|---------|---------|---------|---------|-----|-----|-----|-----|-----|---------------------|
| Chlorine Gas, lbs.     | 39,357  | 43,980  | 41,666  | 48,734  | 43,393  | 29,760  | 49,573  |     |     |     |     |     | 296,463             |
| Sulfur Dioxide, lbs.   | 31,820  | 38,058  | 33,200  | 33,600  | 33,200  | 972,228 | 36,200  |     |     |     |     |     | 1,178,306           |
| Caustic Soda, gals     | 0       | 0       | 0       | 350     | 2,113   | 0       | 3,828   |     |     |     |     |     | 6,291               |
| Aqueous Ammonia, gals. | 4,322   | 5,609   | 5,870   | 5,691   | 1,501   | 486     | 2,854   |     |     |     |     |     | 26,333              |
| Polymer, lbs           | 226,517 | 415,617 | 430,019 | 454,602 | 317,845 | 317,026 | 470,551 |     |     |     |     |     | 2,632,177           |

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

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

Table 3.5 – Utility Consumption

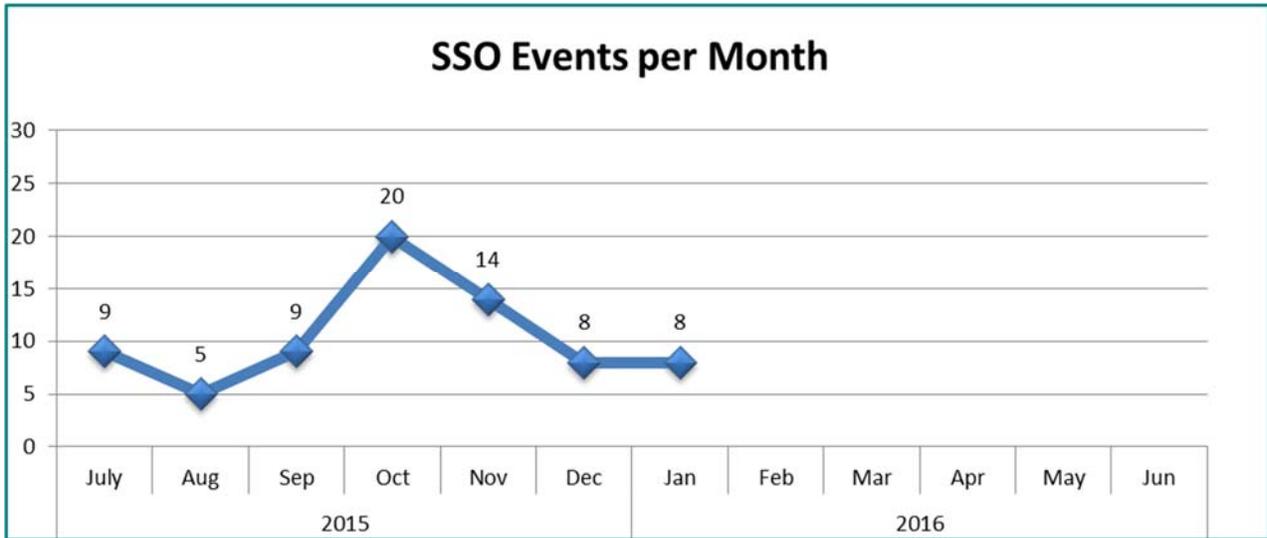
|  | Current Month    | Fiscal Year-to-Date |
|--|------------------|---------------------|
| <b>Electricity</b>                       |                  |                     |
| Main Facility Total Usage, KW            | 1,763,411        | 10,240,769          |
| Tertiary Facility Total Usage, KW        | 687,610          | 3,764,176           |
| <b>Total Facility Usage, KW</b>          | <b>2,451,021</b> |                     |
| PG&E, Purchased KW                       | 1,767,583        | 10,166,635          |
| Co-Generation Production, KW             | 683,438          | 3,838,310           |
| <b>Total Facility Prod./Purch. KW</b>    | <b>2,451,021</b> | <b>11,582,084</b>   |
| <b>Natural Gas</b>                       |                  |                     |
| Co-Generation Fuel, Therms               | 87,440           | 482,140             |
| Building Fuel, Therms                    | 23.86            | 59.29               |
| Methane Gas, Digester Production, CuFt.  | 17,478,800       | 100,503,500         |
| Methane Gas, Digester Production, Therms | 103,533          | 594,528             |
| <b>Water</b>                             |                  |                     |
| Wastewater Facilities Total Usage, gals. | 1,138,800        | 6,352,237           |

## Wastewater Collection Systems

Table 4.1 – Summary of SSOs and Private Sewage Spills

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

Figure 4.A – Public Sanitary Sewer Overflow Events



Public Sanitary Sewer Overflow Events - Comparison Year 2014-2015

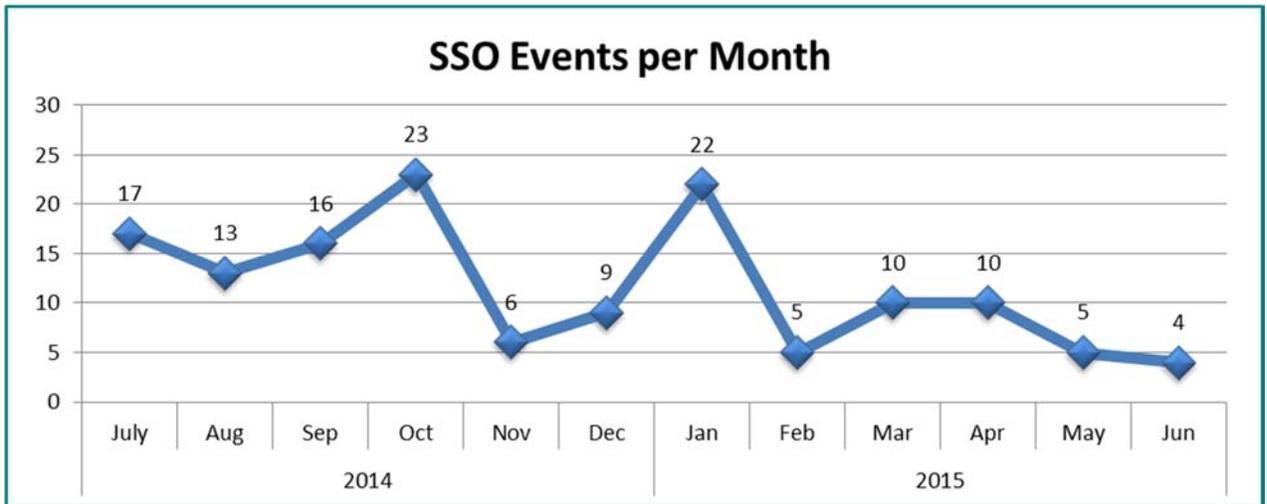
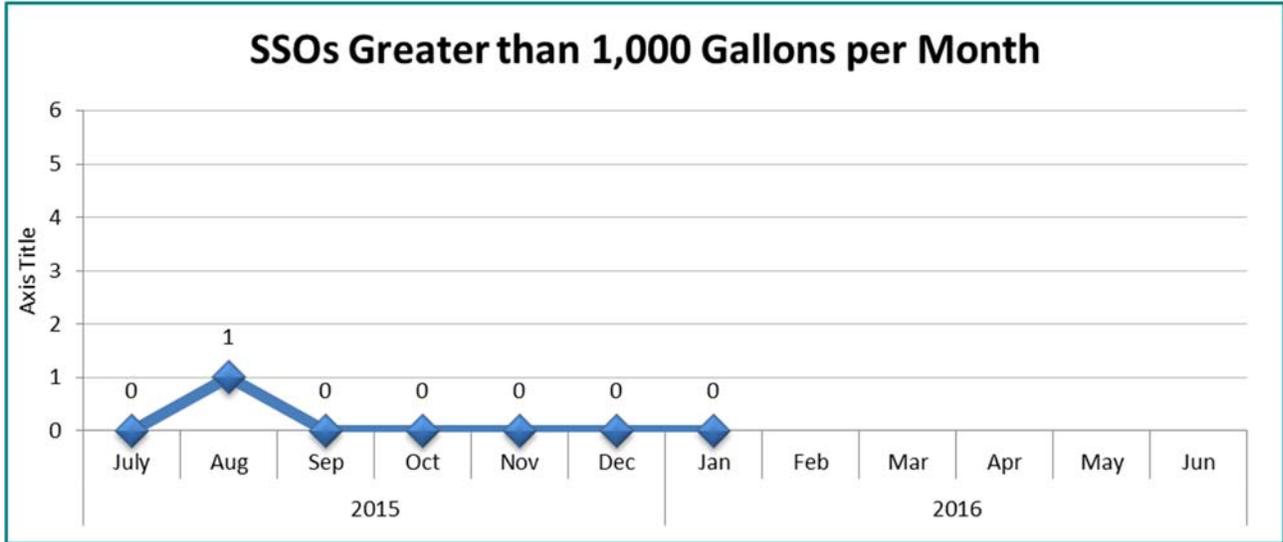


Figure 4.B – Public SSOs Greater than 1,000 gallons – Events



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

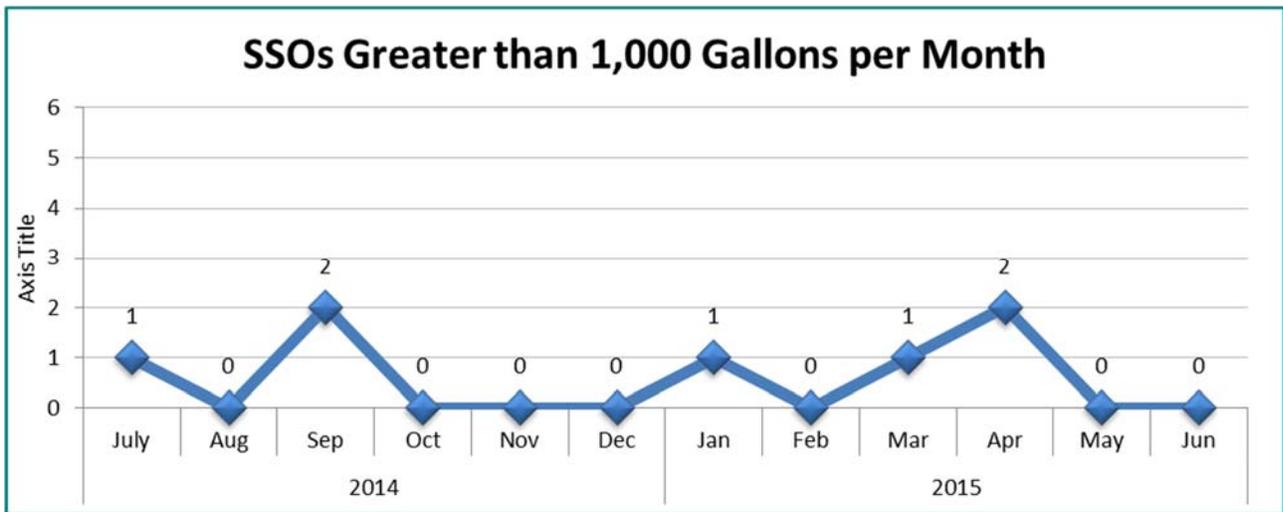
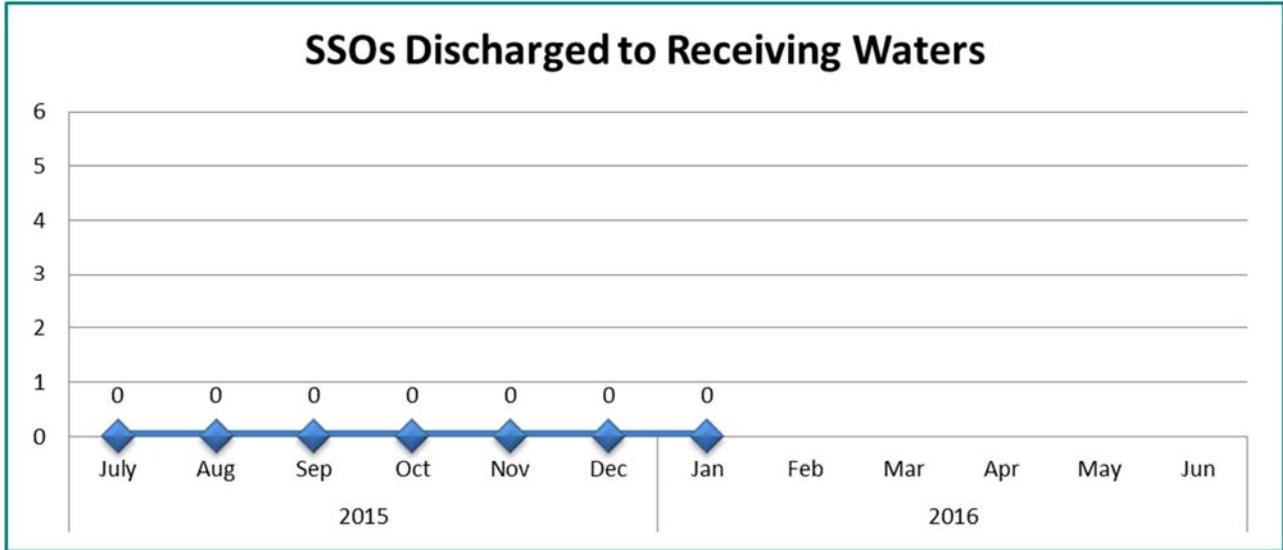


Figure 4.C – Public Sanitary Sewer Overflows Discharged to Receiving Water



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

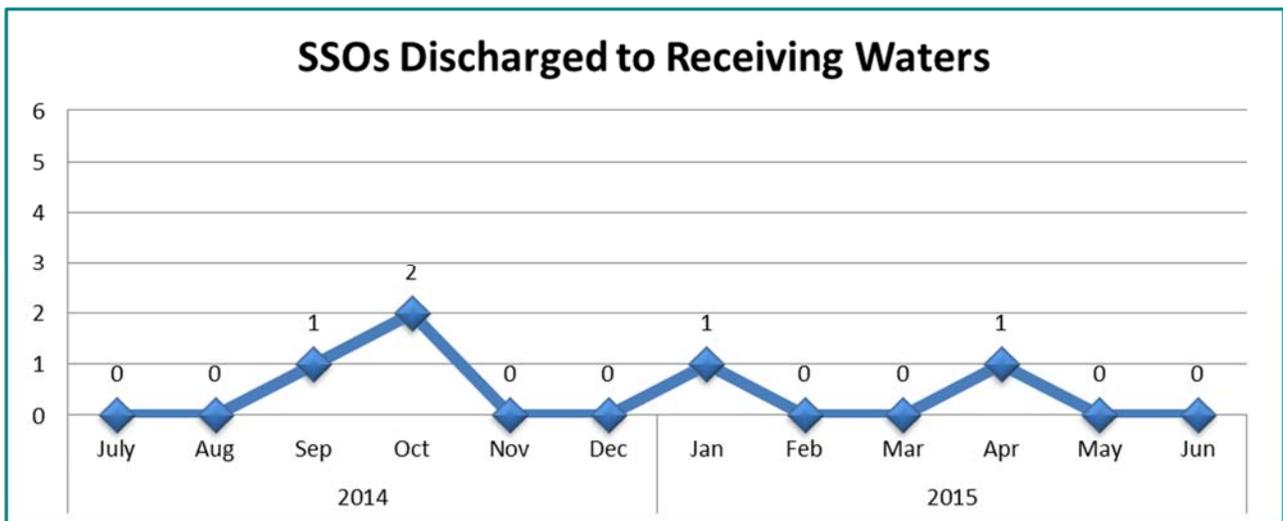


Table 4.2 – Sewer Maintenance Activity Summary

|                                | JUL     | AUG     | SEP     | OCT     | NOV    | DEC     | JAN     | FEB | MAR | APR | MAY | JUN | FISCAL<br>YTD |
|--------------------------------|---------|---------|---------|---------|--------|---------|---------|-----|-----|-----|-----|-----|---------------|
| <b>Repairs – Sewer</b>         |         |         |         |         |        |         |         |     |     |     |     |     |               |
| # of Lateral Repairs           | 7       | 12      | 2       | 1       | 7      | 14      | 5       |     |     |     |     |     | 48            |
| Lateral Repairs, Linear Feet   | 71      | 111     | 16      | 5       | 32     | 20      | 103     |     |     |     |     |     | 358           |
| # of Main Line Repairs         | 13      | 6       | 3       | 3       | 3      | 3       | 0       |     |     |     |     |     | 31            |
| Main Line Repairs, Linear Feet | 63      | 21      | 27      | 15      | 14     | 18      | 0       |     |     |     |     |     | 158           |
| Maintenance Hole Repair/New    | 1       | 2       | 6       | 10      | 9      | 2       | 2       |     |     |     |     |     | 32            |
| Sewer Taps                     | 1       | 0       | 0       | 0       | 0      | 0       | 0       |     |     |     |     |     | 1             |
| <b>Maintenance – Sewer</b>     |         |         |         |         |        |         |         |     |     |     |     |     |               |
| # of Main Line Segments Jetted | 612     | 620     | 465     | 495     | 257    | 394     | 363     |     |     |     |     |     | 3,206         |
| Main Line Linear Feet Jetted   | 185,379 | 185,771 | 138,293 | 159,933 | 88,760 | 132,467 | 127,096 |     |     |     |     |     | 1,017,699     |
| # of Main Line Segments Rodded | 57      | 16      | 17      | 33      | 17     | 19      | 12      |     |     |     |     |     | 171           |
| Main Line Linear Feet Rodded   | 17,098  | 1,519   | 7,339   | 10,910  | 6,418  | 5,064   | 4,016   |     |     |     |     |     | 52,364        |
| Laterals Foamed                | 106     | 144     | 165     | 33      | 85     | 128     | 99      |     |     |     |     |     | 760           |
| Laterals Foamed, Linear Feet   | 3,180   | 4,320   | 4,950   | 990     | 2,550  | 3,840   | 2,940   |     |     |     |     |     | 22,770        |

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

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

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

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

Table 4.3 – Customer Service and CCTV Activity Summary

| <i>CUSTOMER SERVICE</i>                           | <i>JUL</i> | <i>AUG</i> | <i>SEP</i> | <i>OCT</i> | <i>NOV</i> | <i>DEC</i> | <i>JAN</i> | <i>FEB</i> | <i>MAR</i> | <i>APR</i> | <i>MAY</i> | <i>JUN</i> | <i>FISCAL YTD</i> |
|---|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------------|
| Service Calls                                     | 254        | 260        | 392        | 327        | 396        | 462        | 467        |            |            |            |            |            | 2,558             |
| USA Requests                                      | 828        | 720        | 839        | 662        | 451        | 812        | 881        |            |            |            |            |            | 5,193             |
| TV Sanitary Line Segment Inspections              | 61         | 121        | 144        | 81         | 22         | 50         | 73         |            |            |            |            |            | 552               |
| TV Sanitary Line Segment Inspections, Linear Feet | 11,946     | 17,249     | 18,227     | 13,217     | 5,423      | 12,047     | 13,574     |            |            |            |            |            | 91,683            |
| TV Sanitary Lateral Inspections                   | 32         | 258        | 92         | 24         | 107        | 88         | 39         |            |            |            |            |            | 629               |
| TV Sanitary Lateral Inspections, Linear Feet      | 872        | 8,230      | 3,982      | 729        | 1,697      | 1,799      | 875        |            |            |            |            |            | 18,184            |

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

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

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

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

Table 4.4 – Spoils Activity Summary

| <i>SPOILS ACTIVITY SUMMARY</i>              | <i>JUL</i>    | <i>AUG</i> | <i>SEP</i>    | <i>OCT</i>    | <i>NOV</i>    | <i>DEC</i>    | <i>JAN</i>    | <i>FEB</i> | <i>MAR</i> | <i>APR</i> | <i>MAY</i> | <i>JUN</i> | <i>FISCAL YTD</i> |
|---|---------------|------------|---------------|---------------|---------------|---------------|---------------|------------|------------|------------|------------|------------|-------------------|
| Operations / Grit Hauling - # of Loads      | 1             | 0          | 0             | 0             | 1             | 3             | 0             |            |            |            |            |            | 5                 |
| Operations / Grit Hauling - Tonnage         | 6.63          | 0          | 0             | 0             | 6.73          | 20.86         | 0             |            |            |            |            |            | 34.22             |
| Sanitary Lines / Pump Stations - # of Loads | 8             | 0          | 6             | 11            | 5             | 10            | 9             |            |            |            |            |            | 49                |
| Sanitary Lines / Pump Stations - Tonnage    | 126.19        | 0          | 73.01         | 128.00        | 65.48         | 86.12         | 138.83        |            |            |            |            |            | 617.63            |
| Construction Hauling – # of Loads           | 17            | 0          | 15            | 5             | 6             | 5             | 9             |            |            |            |            |            | 57                |
| Construction Hauling – Tonnage              | 224.97        | 0          | 195.59        | 55.24         | 67.62         | 60.32         | 96.98         |            |            |            |            |            | 700.72            |
| <b>Total Loads</b>                          | <b>26</b>     | <b>0</b>   | <b>21</b>     | <b>16</b>     | <b>12</b>     | <b>18</b>     | <b>18</b>     |            |            |            |            |            | <b>111</b>        |
| <b>Total Tonnage</b>                        | <b>357.79</b> | <b>0</b>   | <b>268.60</b> | <b>183.24</b> | <b>139.83</b> | <b>167.30</b> | <b>235.81</b> |            |            |            |            |            | <b>1,352.57</b>   |

Comparison Year 2014-2015 – Spoils Activity Summary

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

Table 4.5 – Graffiti Removal

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

Table 4.6 – Pump Station Maintenance Work Order Summary

| <i>Maintenance Work Orders</i>     | <i>Corrective Maintenance</i> | <i>Corrective Maintenance % Completed</i> | <i>Corrective Maintenance %Backlog</i> | <i>Preventive Maintenance % Backlog</i> |
|------------------------------------|-------------------------------|---|--|---|
| <b>Sanitary Pumping Facilities</b> |                               |   |  |   |
| Pump Station Mechanical            | 77                            | 66.2                                      | 33.8                                   | 64.0                                    |
| Pump Station Electrical            | 18                            | 50.0                                      | 50.0                                   | 28.6                                    |

Table 4.7 – Plant Maintenance Work Order Summary

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

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

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## Environmental Control

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Table 5.1 – Operational Activity Summary

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

\* Discharge Permits (New) - NONE

\*\* Discharge Permits (Renewal) - NONE

\*\*\* Pretreatment Enforcement Actions

11/12/2015 – NOV/CO: Exceeded Tertiary Butyl Alcohol Non-Detect Limit

12/2015 – NOV/CO: Missed Quarterly Self-Monitoring Samples

12/2015 – NOV/CO: Exceeded Monthly Flow Limit

12/2015 – NOV/CO/FINE: Exceeded Discharge Wastewater Limits

12/7/2015 – NOV/CO: .74µ/L VOC

12/15/2015 – NOV/CO: Missed Monthly Self-Monitoring and Weekly Self-Monitoring Samples

12/15/2015 – NOV/CO: Missed Semi-Annual Self-Monitoring Samples for Second Half of 2015

12/18/2015 – NOV/CO: Exceeded Discharge Wastewater Limits and Missed Grab Samples

12/30/2015 – NOV/CO: Exceeded Tertiary Butyl Alcohol Non-Detect Limit

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

\*\*\*\*\* Stormwater Complaints - NONE

\*\*\*\*\* Stormwater Enforcement Actions - NONE

## Comparison Year 2014-2015 –Operational Activities Summary

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

## Laboratory

Table 6.1 – Acute Toxicity Testing Summary

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

### Chronic Toxicity

Table 6.2 – Algae (*Selenastrum capricornutum*)

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

Testing continues quarterly.

Table 6.3 – *Ceriodaphnia* (*C. dubia*)

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

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

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

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

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

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

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

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

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

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

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

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

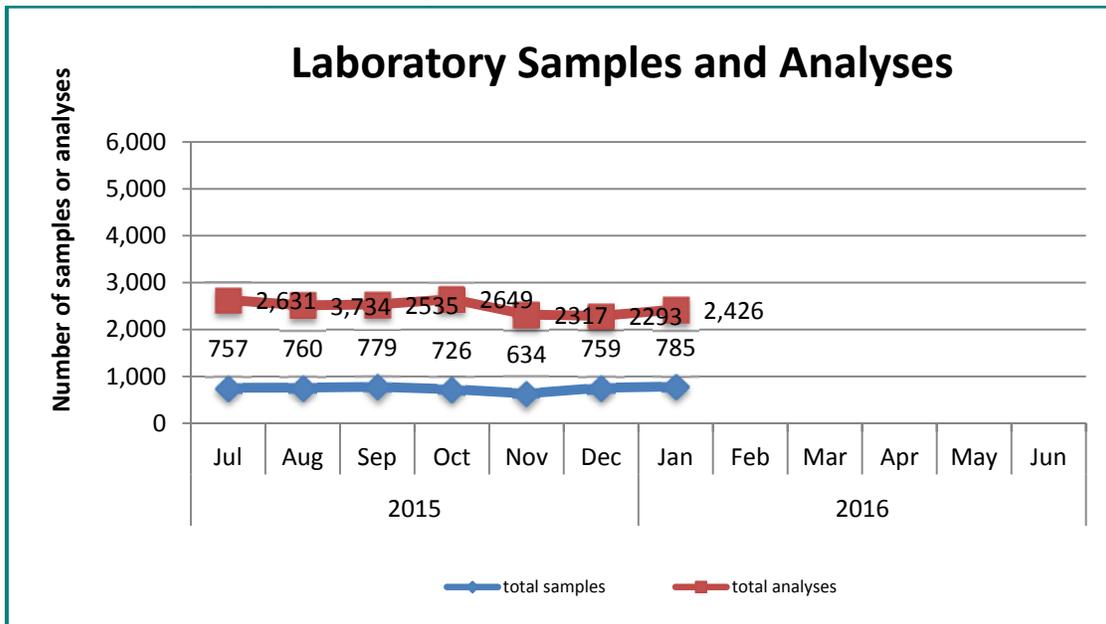
| Sample Date | Survival |                | Growth |                |
|-------------|----------|----------------|--------|----------------|
|             | NOEC     | TUc (100/NOEC) | NOEC   | TUc (100/NOEL) |
| 01-11-15    | 100%     | 1.0            | 100%   | 1.0            |
| 06-07-15    | 100%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

Testing continues quarterly.

Table 6.5 – Effluent Ammonia-N Summary

| EFF-001 (Final Effluent) | Regulatory NH3-N, mg/L | Process Control NH3-N, mg/L |
|--------------------------|------------------------|-----------------------------|
| Monthly Minimum          | <0.5                   | 0.34                        |
| Monthly Maximum          | 2.7                    | 4.5                         |
| Monthly Average          | <1.0                   | 1.2                         |
| Number of samples        | 17                     | 31                          |

Figure 6.A – Laboratory Samples and Analyses



Laboratory Samples and Analyses – Comparison Year 2014-2015

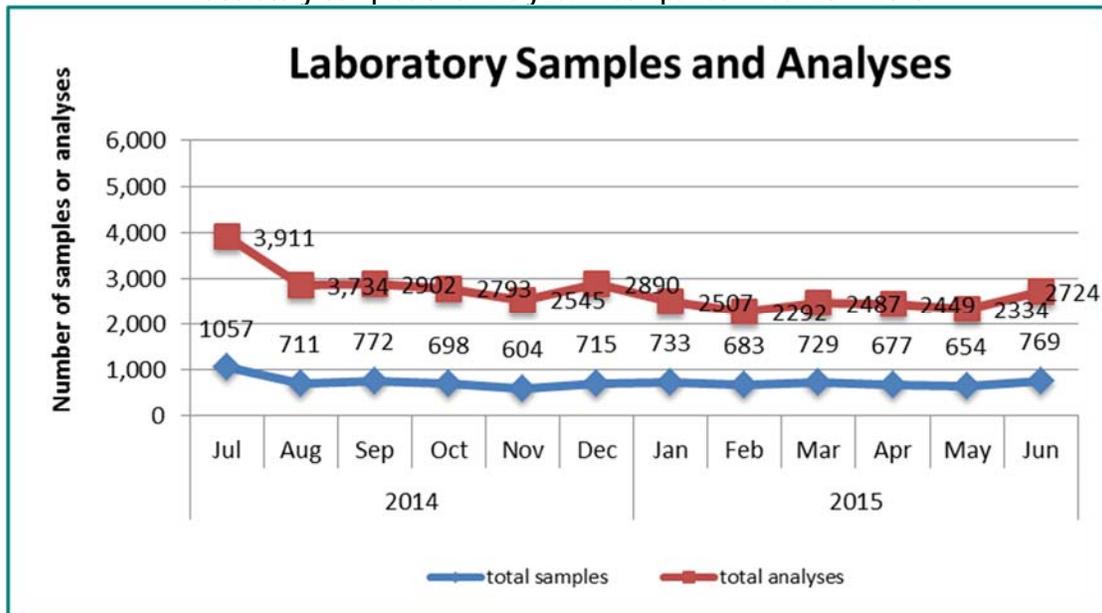
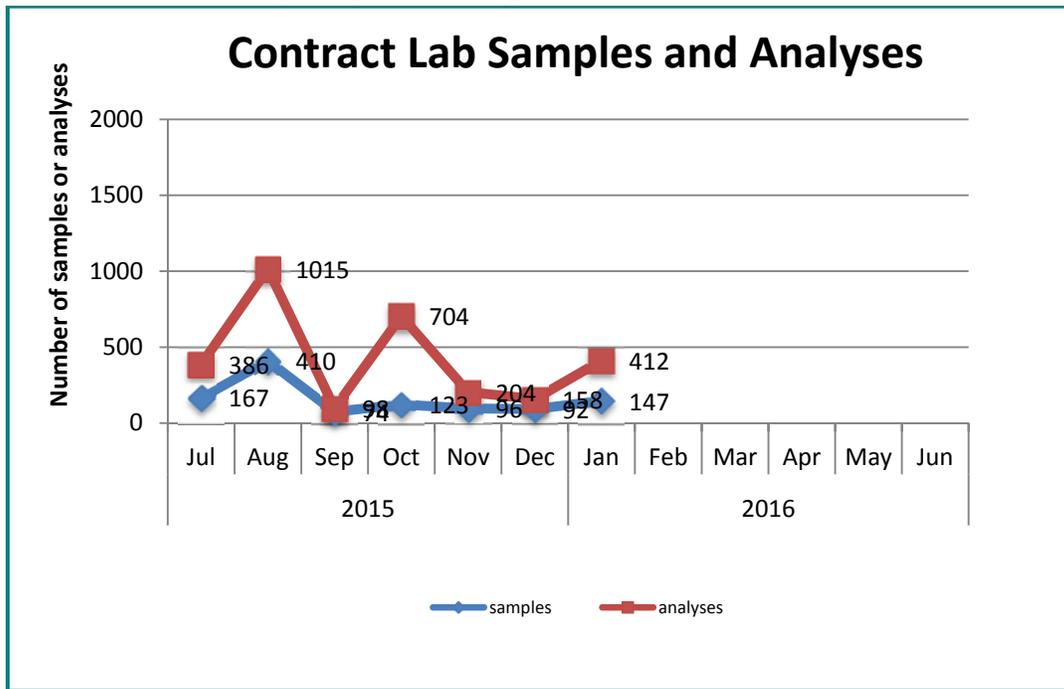


Figure 6.B – Contract Laboratory Samples and Analyses



Contract Laboratory Samples and Analyses – Comparison Year 2014-2015

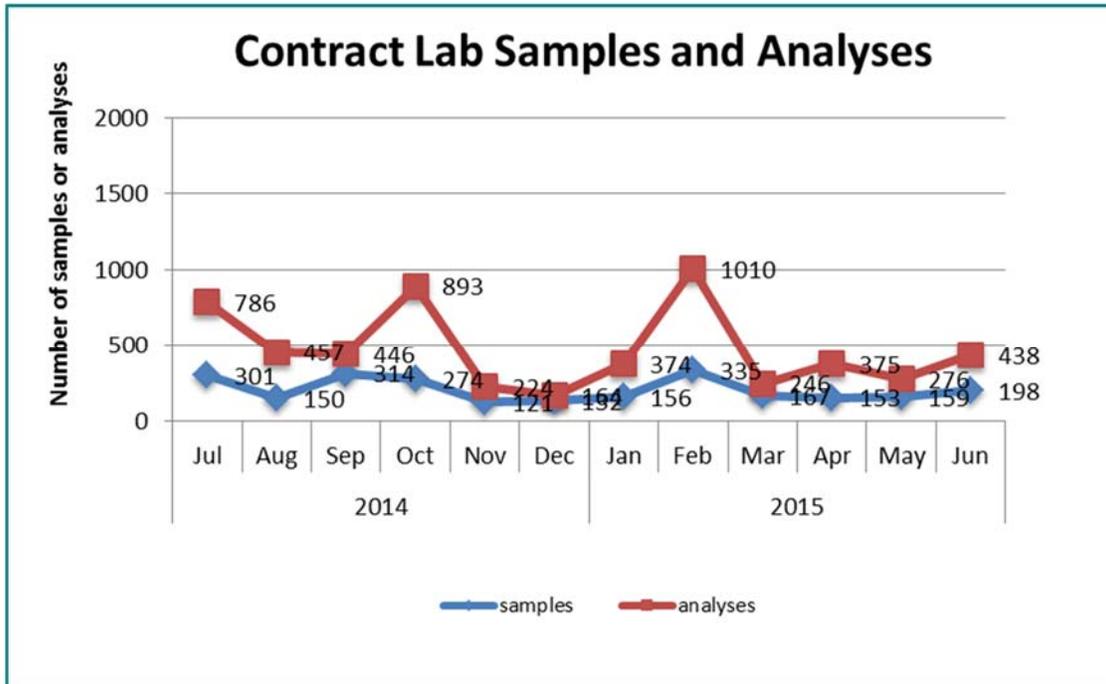
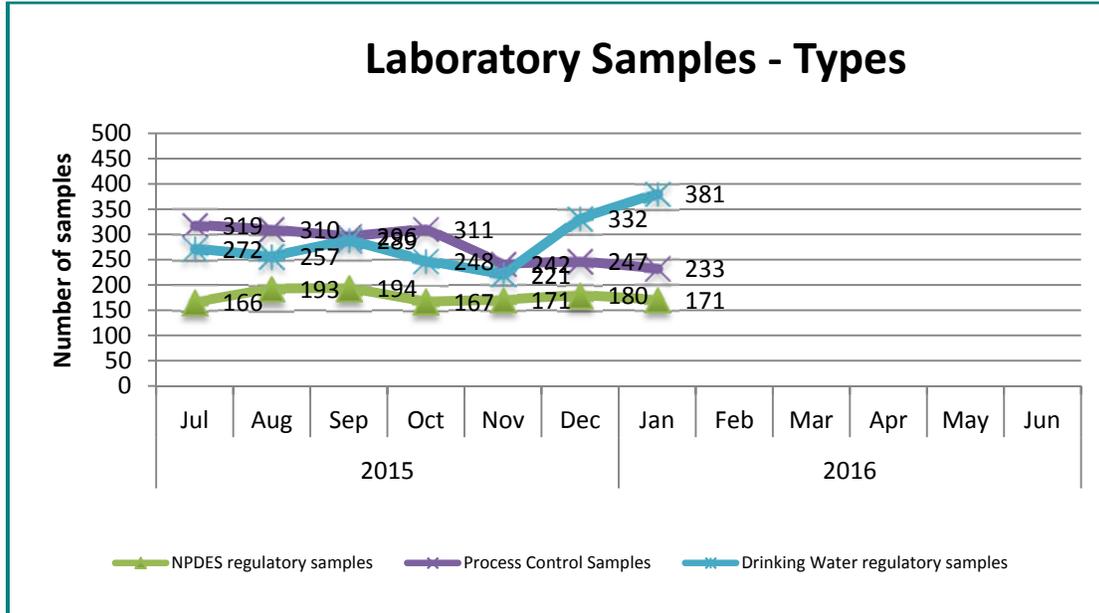
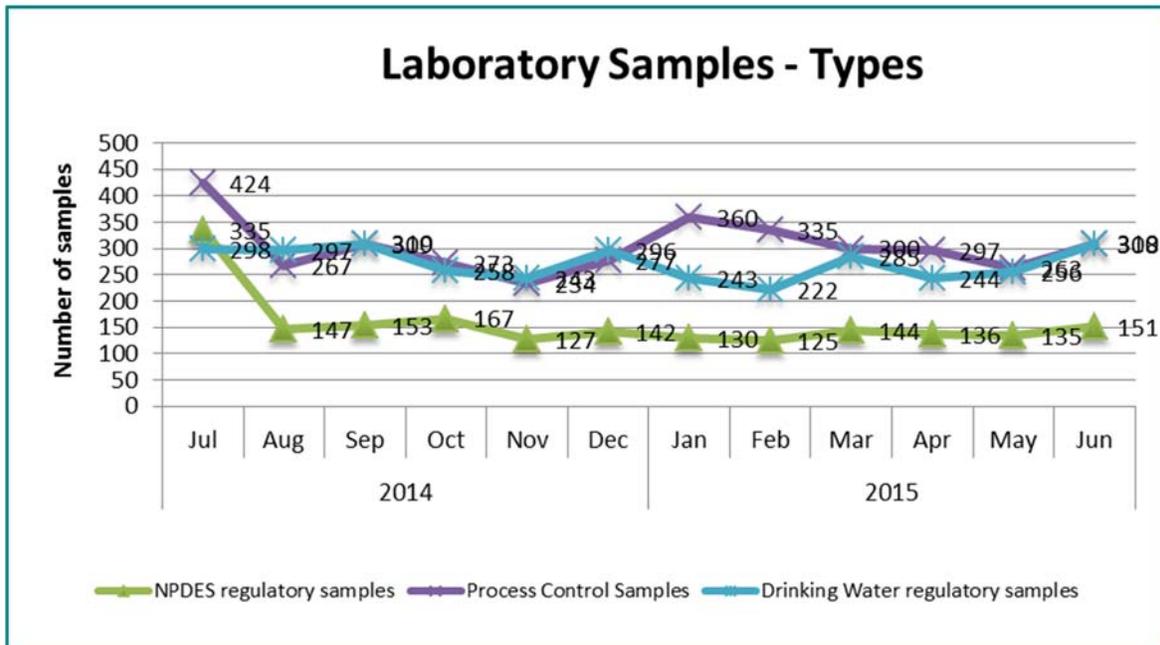


Figure 6.C – Laboratory Sample Types



Laboratory Sample Types Comparison Year 2014-2015



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## Engineering

Figure 7.A – Development Reviews Received and Completed

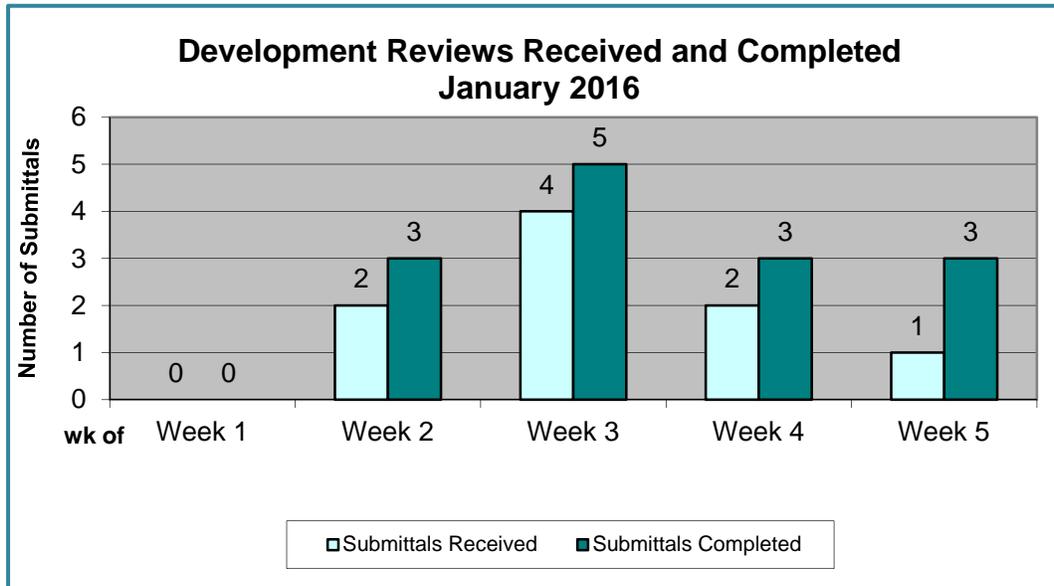
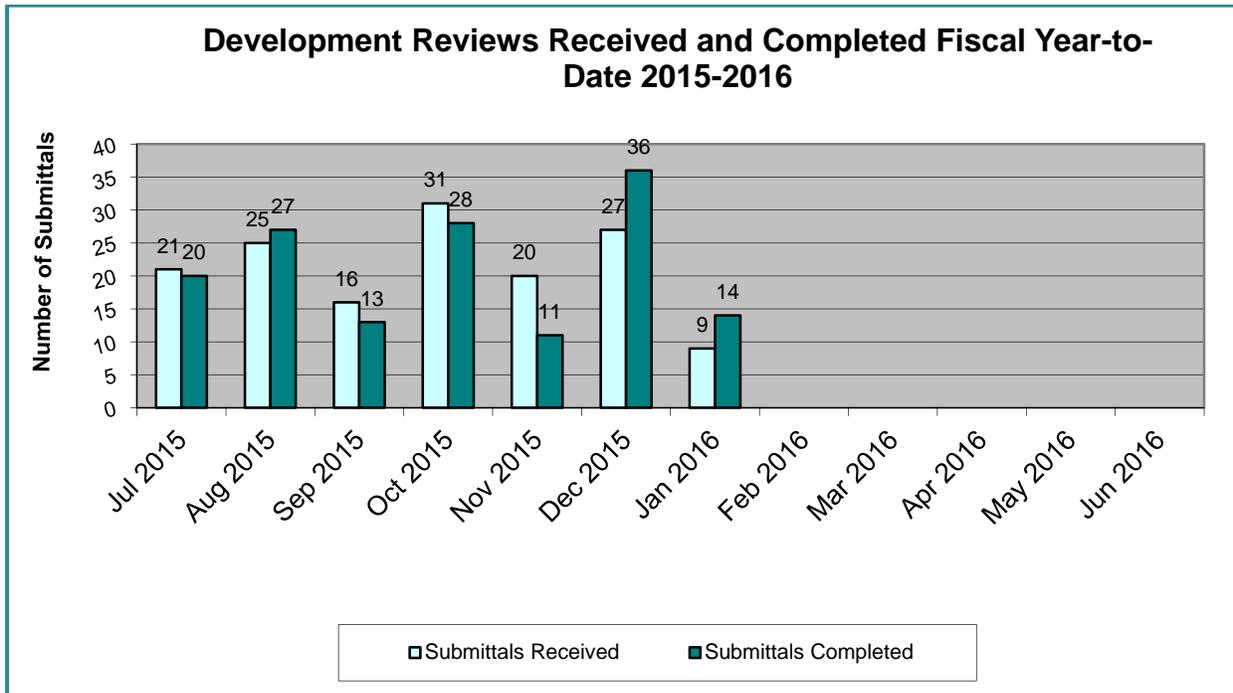


Figure 7.B – Development Reviews Received and Completed Year-to-Date



Development Reviews Received and Completed – Comparison Year 2014-2015

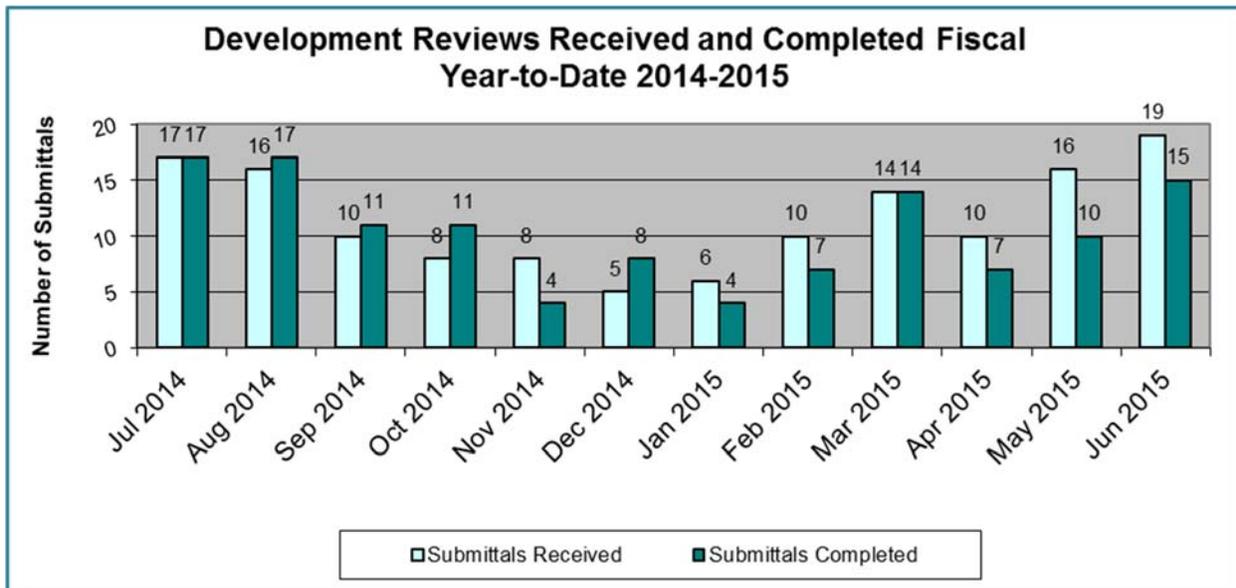
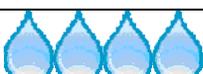
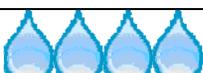


Table 7.1 – Nonpotable, Stormwater, Water, and Wastewater Projects

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

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## Stormwater

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Table 8.1 – Stormwater Maintenance Activity Summary

|   | JUL | AUG  | SEP  | OCT   | NOV   | DEC  | JAN   | FEB | MAR | APR | MAY | JUN | FISCAL<br>YTD |
|---|-----|------|------|-------|-------|------|-------|-----|-----|-----|-----|-----|---------------|
| <b>Repairs – Storm</b>                          |     |      |      |       |       |      |       |     |     |     |     |     |               |
| # of Catch Basin Lateral Repairs/New            | 1   | 0    | 0    | 0     | 0     | 0    | 0     |     |     |     |     |     | 1             |
| Catch Basin Lateral Repairs/New, Linear Feet    | 16  | 0    | 0    | 0     | 0     | 0    | 0     |     |     |     |     |     | 16            |
| # of Storm Main Line Repairs                    | 1   | 0    | 0    | 0     | 0     | 0    | 0     |     |     |     |     |     | 1             |
| Storm Main Line Repairs, Linear Feet            | 3   | 0    | 0    | 0     | 0     | 0    | 0     |     |     |     |     |     | 3             |
| # of Catch Basin Storm Repairs/New              | 1   | 2    | 0    | 1     | 0     | 1    | 1     |     |     |     |     |     | 6             |
| # of Storm Maintenance-hole Repairs/New         | 5   | 1    | 0    | 0     | 0     | 0    | 0     |     |     |     |     |     | 6             |
| <b>Storm – Maintenance</b>                      |     |      |      |       |       |      |       |     |     |     |     |     |               |
| # of Catch Basin Laterals Cleaned               | 1   | 28   | 72   | 7     | 16    | 93   | 9     |     |     |     |     |     | 226           |
| Catch Basin Laterals Jetted, Linear Feet        | 25  | 60   | 245  | 278   | 30    | 152  | 0     |     |     |     |     |     | 790           |
| # of Catch Basin Laterals Rodded                | 0   | 0    | 0    | 0     | 1     | 1    | 0     |     |     |     |     |     | 2             |
| Catch Basin Laterals Rodded, Linear Feet        | 0   | 0    | 0    | 0     | 35    | 2    | 0     |     |     |     |     |     | 37            |
| # of Storm Main Lines Jetted                    | 0   | 4    | 0    | 0     | 2     | 1    | 2     |     |     |     |     |     | 9             |
| Storm Main Lines Jetted, Linear Feet            | 0   | 664  | 0    | 0     | 400   | 380  | 200   |     |     |     |     |     | 1,644         |
| # of Storm Main Lines Rodded                    | 0   | 0    | 0    | 0     | 0     | 0    | 5     |     |     |     |     |     | 5             |
| Storm Main Lines Rodded, Linear Feet            | 0   | 0    | 0    | 0     | 0     | 0    | 975   |     |     |     |     |     | 975           |
| # of Storm Maintenance-holes Cleaned            | 0   | 1    | 0    | 0     | 0     | 1    | 1     |     |     |     |     |     | 3             |
| # of Storm Pump Stations Cleaned                | 2   | 6    | 3    | 6     | 0     | 0    | 0     |     |     |     |     |     | 17            |
| # of tons of Debris Removed from Storm Stations | .30 | 6.15 | 5.00 | 2.50  | 0.00  | 0.00 | 0     |     |     |     |     |     | 13.95         |
| # of Storm Catch Basins Inspected               | 739 | 474  | 239  | 35    | 0     | 3    | 0     |     |     |     |     |     | 1,490         |
| # of Storm Catch Basins Stenciled               | 332 | 257  | 63   | 0     | 0     | 0    | 0     |     |     |     |     |     | 652           |
| # of Storm Event Calls                          | 0   | 0    | 0    | 0     | 174   | 17   | 534   |     |     |     |     |     | 725           |
| Storm Event Line Clean-up, Linear Feet          | 0   | 0    | 0    | 0     | 55    | 100  | 1,659 |     |     |     |     |     | 1,1814        |
| TV Storm Line Segment Inspections               | 1   | 0    | 1    | 0     | 0     | 0    | 1     |     |     |     |     |     | 3             |
| TV Storm Line Segment Inspections, Linear Feet  | 289 | 0    | 460  | 0     | 0     | 0    | 18    |     |     |     |     |     | 767           |
| Spoils Storm Pump Stations / CBs - # of Loads   | 0   | 0    | 0    | 2     | 1     | 0    | 0     |     |     |     |     |     | 3             |
| Spoils Storm Pump Stations / CBs - Tonnage      | 0   | 0    | 0.00 | 18.22 | 14.40 | 0.00 | 0     |     |     |     |     |     | 33            |

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

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

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

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

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

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

Table 8.2 –Stormwater Pumping Facilities Work Order Summary Year 2015-2016

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

## Work Order Summary - Comparison Year 2014-2015

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

Table 8.3 – Inspections

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

Inspections – Comparison Year 2014-2015

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

## Administration

### Safety and Training Activities

Table 9.1 – Summary of Unsafe Conditions or Acts

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

Table 9.2 – Summary of Work-Related Injuries and Illnesses

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

Table 9.3 – Summary of Safety Training

|  | <i>Hours Delivered</i> | <i># of Attendees</i> | <i>Total Attendee Hours</i> |
|--|------------------------|-----------------------|-----------------------------|
| <b>Tailgate Sessions</b>               |                        |                       |                             |
| Safety Committee Review                | 1                      | 16                    | 16                          |
| Motor Vehicle Inspection & Maintenance | 1                      | 6                     | 6                           |
| Fire Extinguishers                     | 1                      | 10                    | 10                          |
| Understanding GHS Labels               | 1                      | 15                    | 15                          |
| Safe Lifting Basics                    | 1                      | 6                     | 6                           |
| <b>Training</b>                        |                        |                       |                             |
| Hearing Conservation Program Training  | 1                      | 45                    | 45                          |
| Traffic Control & Flagging             | 7                      | 50                    | 350                         |
| Bloodborne Pathogen Training           | 1                      | 30                    | 30                          |
| Audiometric Testing – Van              | 1                      | 60                    | 60                          |
| <b>TOTAL</b>                           | <b>15</b>              | <b>238</b>            | <b>538</b>                  |

### Human Resources Operational Activities

Table 9.4 – Staffing Summary

| <i>Divisions</i>             | <i># of Positions</i> | <i># of Employees</i> | <i>Vacancies</i> | <i>Change (+/-)</i> |
|------------------------------|-----------------------|-----------------------|------------------|---------------------|
| Administration               | 18                    | 13                    | 5                |                     |
| Financial Services           | 5                     | 5                     | 0                |                     |
| Collections                  | 64                    | 58                    | 6                | +2                  |
| Engineering                  | 14                    | 13                    | 1                |                     |
| Environmental Control        | 7                     | 6                     | 1                |                     |
| Laboratory                   | 7                     | 6                     | 1                |                     |
| Wastewater Treatment         | 52                    | 48                    | 4                | -2                  |
| Water Treatment/Distribution | 27                    | 26                    | 1                |                     |
| Water Resources/Treatment    | 23                    | 19                    | 4                |                     |
| <b>Total Staff Count</b>     | <b>217</b>            | <b>194</b>            | <b>23</b>        | <b>+2 / -2</b>      |

Table 9.5 – Overtime Summary

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

Overtime Summary – Comparison Year 2014-2015

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

# Appendix A

## Water

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

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## Title 22 Compliance - Drinking Water Monitoring

### Compliance Sampling

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

### Exceptions

(none)

### Well Status Changes

(none)

### Other

(none)



## Appendix B

### Environmental Compliance

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**Monitored Industrial User Charges**

**Customer Charges Report**

**Septic Waste Haulers' Charges**

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| CUST ID #    | COMPANY                            | CHG CODE | STANDBY |         |        | SUB-TOTAL    | LOADING |        |       | OTHER  | SUB-TOTAL    | ADMIN FEE | TOTAL        |
|--------------|------------------------------------|----------|---------|---------|--------|--------------|---------|--------|-------|--------|--------------|-----------|--------------|
|              |                                    |          | FLOW    | BOD     | TSS    |              | FLOW    | BOD    | TSS   |        |              |           |              |
| 6305         | American Sunny Foods               | SIM15    | 0.48    | 1.20    | 0.45   | \$439.94     | 0.00    | 0.00   | 0.00  | \$0.00 | \$2.49       | \$22.80   | \$465.23     |
| 86601        | Boretech Resource Recovery         | SIM33    | 0.33    | 0.28    | 0.03   | \$228.28     | 0.10    | 0.02   | 0.01  | \$0.00 | \$52.01      | \$22.80   | \$303.09     |
| 85629        | Foodliner                          | SIM16    | 0.51    | 12.51   | 1.25   | \$1,621.10   | 0.17    | 3.27   | 0.60  | \$0.00 | \$242.14     | \$22.80   | \$1,886.04   |
| 84901        | Niagara 811 Zephyr                 | SIM28    | 7.86    | 12.78   | 3.29   | \$4,984.15   | 1.72    | 0.22   | 0.42  | \$0.00 | \$930.21     | \$22.80   | \$5,937.17   |
| 6290         | California Spray Dry Co.           | SIM2     | 5.10    | 118.00  | 28.00  | \$16,622.99  | 0.25    | 0.00   | 0.00  | \$0.00 | \$131.94     | \$22.80   | \$16,777.73  |
| 4990         | California Tank Lines              | SIM17    | 1.00    | 14.18   | 4.90   | \$2,341.14   | 0.66    | 4.12   | 2.99  | \$0.00 | \$668.02     | \$22.80   | \$3,031.96   |
| 6240         | Campbell Soup Supply               | SIM12    | 65.00   | 330.00  | 230.00 | \$87,978.55  | 0.00    | 0.00   | 0.00  | \$0.00 | \$0.00       | \$22.80   | \$88,001.35  |
| 43328        | Cintas Corporation                 | SIM24    | 3.80    | 23.00   | 12.00  | \$5,281.87   | 3.55    | 6.34   | 2.73  | \$0.00 | \$2,242.68   | \$22.80   | \$7,547.35   |
| 6245         | Ingredion Incorporated             | SIM3     | 40.45   | 458.58  | 93.50  | \$75,971.49  | 15.47   | 310.18 | 49.60 | \$0.00 | \$22,256.71  | \$22.80   | \$98,251.00  |
| 83095        | California Health Care Facility    | USI6     |         |         |        | \$0.00       | 1.63    |        |       | \$0.00 | \$4,371.42   | \$22.80   | \$4,394.22   |
| 43838        | Midway, Crosstown Commons          | SIM4     | 3.00    | 10.00   | 0.30   | \$2,812.10   | 0.11    | 0.02   | 0.02  | \$0.00 | \$57.87      | \$22.80   | \$2,892.77   |
| 6270         | Diamond of California              | SIM5     | 8.00    | 210.00  | 145.00 | \$35,730.97  | 2.01    | 35.84  | 16.86 | \$0.00 | \$3,337.28   | \$22.80   | \$39,091.05  |
| 75519        | Dole Packaged Foods LLC Stock      | SIM30    | 1.22    | 10.30   | 5.22   | \$2,115.00   | 0.01    | 0.00   | 0.00  | \$0.00 | \$5.02       | \$22.80   | \$2,142.83   |
| 5700         | Duraflame                          | SIM14    | 3.10    | 3.75    | 1.75   | \$1,997.99   | 0.17    | 0.05   | 0.03  | \$0.00 | \$91.59      | \$22.80   | \$2,112.38   |
| 5100         | San Joaquin County French Camp     | USI4     |         |         |        |              | 7.71    |        |       | \$0.00 | \$20,609.63  | \$22.80   | \$20,632.43  |
| 34202        | Grimaud Farms                      | SIM19    | 0.85    | 6.00    | 2.00   | \$1,243.28   | 0.85    | 5.36   | 1.35  | \$0.00 | \$720.24     | \$22.80   | \$1,986.33   |
| 47912        | New Stockton Poultry               | SIM25    | 0.75    | 8.37    | 3.04   | \$1,488.96   | 0.71    | 3.85   | 0.93  | \$0.00 | \$563.42     | \$22.80   | \$2,075.18   |
| 52651        | Niagara                            | SIM27    | 7.50    | 2.04    | 0.69   | \$4,780.05   | 3.56    | 0.01   | 0.71  | \$0.00 | \$1,902.01   | \$22.80   | \$6,704.86   |
| 5625         | Northern California Youth Center   | USI3     |         |         |        |              | 5.17    |        |       | \$0.00 | \$13,817.41  | \$22.80   | \$13,840.21  |
| 61265        | Pacific Ethanol                    | SIM29    | 4.50    | 3.94    | 1.45   | \$3,207.80   | 1.30    | 1.54   | 0.98  | \$0.00 | \$790.63     | \$22.80   | \$4,021.23   |
| 33746        | Parsons Engineering Science        | USI5     |         |         |        |              | 0.11    |        |       | \$0.00 | \$240.86     | \$22.80   | \$263.66     |
| 11149        | Port of Stockton - Rough and Ready | USI2     |         |         |        |              | 7.60    |        |       | \$0.00 | \$20,320.86  | \$22.80   | \$20,343.66  |
| 6250         | DTE                                | SIM10    | 5.50    | 7.62    | 7.62   | \$4,612.65   | 4.09    | 0.60   | 1.10  | \$0.00 | \$2,219.29   | \$22.80   | \$6,854.75   |
| 86113        | Aramark                            | SIM18    | 6.93    | 29.60   | 6.77   | \$7,565.99   | 3.38    | 9.18   | 3.17  | \$0.00 | \$2,284.39   | \$22.80   | \$9,873.18   |
| 21193        | Stockton Sanitary Wash Rack        | SIM20    | 0.64    | 50.06   | 5.12   | \$5,646.72   | 0.12    | 27.87  | 0.30  | \$0.00 | \$1,091.83   | \$22.80   | \$6,761.35   |
| 42136        | Tankerwash USA                     | SIM22    | 1.00    | 22.39   | 6.79   | \$3,279.17   | 0.56    | 13.44  | 1.56  | \$0.00 | \$872.66     | \$22.80   | \$4,174.62   |
| 86504        | R&B Foods                          | SIM13    | 60.00   | 675.00  | 300.00 | \$123,702.15 | 0.49    | 0.06   | 0.54  | \$0.00 | \$288.13     | \$22.80   | \$124,013.08 |
| 40039        | Unifirst Corp                      | SIM21    | 3.25    | 16.82   | 4.44   | \$3,925.47   | 2.21    | 14.34  | 3.54  | \$0.00 | \$1,883.60   | \$22.80   | \$5,831.86   |
| 80635        | Wilmar Gavlion LLC                 | SIM31    | 1.00    | 1.50    | 1.00   | \$822.34     | 0.39    | 0.65   | 0.17  | \$0.00 | \$239.73     | \$22.80   | \$1,084.86   |
| 83602        | Zacky Kitchens                     | SIM11    | 5.37    | 6.32    | 8.86   | \$4,495.53   | 1.24    | 3.40   | 1.77  | \$0.00 | \$876.47     | \$22.80   | \$5,394.80   |
| APPROVED BY: |                                    |          | 236.93  | 2034.22 | 873.46 | \$402,895.68 | 65.34   | 440.34 | 89.38 | \$0.00 | \$103,110.53 | \$684.00  | \$506,690.21 |

\$506,690.21

December-15

WORKSHEET FOR MONITORED INDUSTRIAL USER MONTHLY CHARGES

1/21/2016

| COMPANY                            | CURRENT FLOW READING | PREVIOUS FLOW READING | TOTAL MONTHLY FLOW | AVERAGE BOD | TOTAL 1,000 LBS BOD | AVERAGE TSS | TOTAL 1,000 LBS TSS | OTHER CHARGES | DATE ENTERED |
|------------------------------------|----------------------|-----------------------|--------------------|-------------|---------------------|-------------|---------------------|---------------|--------------|
|                                    |                      |                       |                    |             |                     |             |                     |               | Mo-Yr.       |
| American Sunny Foods               | 2589954              | 2585194               | 0.00               | 0           | 0.00                | 0           | 0.00                | \$0.00        | Jan-16       |
| Boretch Resource Recovery          | 3008099              | 2911024               | 0.10               | 25          | 0.02                | 12.5        | 0.01                | \$0.00        | Jan-16       |
| Foodliner                          | 26947340             | 26777799              | 0.17               | 2311        | 3.27                | 421.1       | 0.60                | \$0.00        | Jan-16       |
| Niagara 811 Zephyr                 | 185030394            | 183311894             | 1.72               | 15.6        | 0.22                | 29.4        | 0.42                | \$0.00        | Jan-16       |
| California Spray Dry Co.           | 225768938            | 225516319             | 0.25               | 0           | 0.00                | 0           | 0.00                | \$0.00        | Jan-16       |
| California Tank lines              | 70464891             | 69806245              | 0.66               | 749         | 4.12                | 545         | 2.99                | \$0.00        | Jan-16       |
| Campbell Soup Supply               | 423604130            | 422622230             | 0.00               |             |                     |             |                     |               | Jan-16       |
| Cintas Corporation                 | 132013100            | 128465510             | 3.55               | 214         | 6.34                | 92          | 2.73                | \$0.00        | Jan-16       |
| Ingredion                          | 911231488            | 895856672             | 15.47              | 2404        | 310.18              | 384         | 49.60               | \$0.00        | Jan-16       |
| California Health Care Facility    | 43030208             | 44665120              | 1.63               | 0           | 0.00                | 0           | 0.00                | \$0.00        | Jan-16       |
| Midway, Crosstown Commons          | 831550               | 723820                | 0.11               | 17          | 0.02                | 20          | 0.02                | \$0.00        | Jan-16       |
| Diamond of California              |                      |                       | 2.01               | 2134        | 35.84               | 1004        | 16.86               | \$0.00        | Jan-16       |
| Dole Packaged Foods LLC Stockton   | 20867234             | 20857616              | 0.01               | 0           | 0.00                | 0           | 0.00                | \$0.00        | Jan-16       |
| Duraflame/Cal Cedar                | 5144818              | 4976846               | 0.17               | 36.5        | 0.05                | 24.5        | 0.03                | \$0.00        | Jan-16       |
| San Joaquin County - French Camp   |                      |                       | 7.71               |             |                     |             |                     | \$0.00        | Jan-16       |
| Grimaud Farms                      | 93658071             | 92803464              | 0.85               | 572         | 5.36                | 190         | 1.35                | \$0.00        | Jan-16       |
| New Stockton Poultry               | 68018528             | 67311110              | 0.71               | 652         | 3.85                | 157         | 0.93                | \$0.00        | Jan-16       |
| Niagara                            | 30565082             | 27003640              | 3.56               | 0.4         | 0.01                | 2           | 0.71                | \$0.00        | Jan-16       |
| Northern California Youth Center   | 143419680            | 138251968             | 5.17               | 630         | 27.15               | 272         | 11.72               | \$0.00        | Jan-16       |
| Pacific Ethanol                    | 99541383             | 98244357              | 1.30               | 142         | 1.54                | 91          | 0.98                | \$0.00        | Jan-16       |
| Parsons Engineering Science        |                      |                       | 0.11               |             |                     |             |                     | \$0.00        | Jan-16       |
| Port of Stockton - Rough and Ready |                      |                       | 7.60               |             |                     |             |                     | \$0.00        | Jan-16       |
| DTE Stockton                       | 98423238             | 94338088              | 4.09               | 17.6        | 0.60                | 32.2        | 1.10                | \$0.00        | Jan-16       |
| Aramark                            | 6088400              | 2707400               | 3.38               | 325         | 9.18                | 112.42      | 3.17                | \$0.00        | Jan-16       |
| Stockton Sanitary Wash Rack        | 2506008              | 2390642               | 0.12               | 28970       | 27.87               | 308         | 0.30                | \$0.00        | Jan-16       |
| Tankerwash USA                     | 56739287             | 56178537              | 0.56               | 2873        | 13.44               | 333         | 1.56                | \$0.00        | Jan-16       |
| R&B Foods                          | 282096670            | 281608920             | 0.49               | 6           | 0.06                | 58          | 0.54                | \$0.00        | Jan-16       |
| Unifirst Corp                      | 85391343             | 83178825              | 2.21               | 777         | 14.34               | 192         | 3.54                | \$0.00        | Jan-16       |
| Wilmar Gavilon LLC                 | 6504308              | 6109668               | 0.39               | 198         | 0.65                | 52.0        | 0.17                | \$0.00        | Jan-16       |
| Zacky Kitchens                     | 123094297            | 121847941             | 1.24               | 327         | 3.40                | 169         | 1.77                | \$0.00        | Jan-16       |
| <b>TOTAL</b>                       |                      |                       | <b>65.34</b>       |             | <b>467.49</b>       |             | <b>101.10</b>       | <b>\$0.00</b> |              |

## Customer Monthly Charges Report

Date Range: 12/1/2015 to 12/31/2015

| Customer ID         | Customer Name             | Total Gallons  | Gallon Charge     | Trip Charge        | Other Charges | Total Charges      |
|---------------------|---------------------------|----------------|-------------------|--------------------|---------------|--------------------|
| 85508               | A-1 Septic                | 0              | \$0.00            | \$0.00             | \$0.00        | \$0.00             |
| 10708               | A & A Portables           | 26,085         | \$254.33          | \$1,001.00         | \$0.00        | \$1,255.33         |
| 78477               | A & J Rentals             | 7,800          | \$76.05           | \$924.00           | \$0.00        | \$1,000.05         |
| 11153               | AAA Septic & Rooter       | 57,800         | \$563.55          | \$1,309.00         | \$0.00        | \$1,872.55         |
| 11491               | ABC Plumbing              | 0              | \$0.00            | \$0.00             | \$0.00        | \$0.00             |
| 10495               | ET Services               | 0              | \$0.00            | \$0.00             | \$0.00        | \$0.00             |
| 6195                | Frank & Jrs Sewer Service | 47,250         | \$460.69          | \$1,155.00         | \$0.00        | \$1,615.69         |
| 6200                | G & C Septic              | 6,700          | \$65.33           | \$154.00           | \$0.00        | \$219.33           |
| 4735                | Parrish and Sons          | 158,400        | \$1,544.40        | \$3,388.00         | \$0.00        | \$4,932.40         |
| 75717               | Premium Packing           | 3,000          | \$29.25           | \$154.00           | \$0.00        | \$183.25           |
| 6210                | Richards Pumping          | 167,500        | \$1,633.13        | \$5,159.00         | \$0.00        | \$6,792.13         |
| 39444               | Roto Rooter Sewer Service | 216,008        | \$2,106.08        | \$5,005.00         | \$0.00        | \$7,111.08         |
| 74032               | SRC Pumping Co            | 13,362         | \$130.28          | \$231.00           | \$0.00        | \$361.28           |
| <b>Grand Totals</b> |                           | <b>703,905</b> | <b>\$6,863.07</b> | <b>\$18,480.00</b> | <b>\$0.00</b> | <b>\$25,343.07</b> |

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

**Septic Waste Haulers Monthly Charges**

Date Range: 12/1/2015 to 12/31/2015

| <b>Customer Name</b>          | <b>Truck License</b> | <b>Tank Capacity</b> | <b>Total Trips</b> | <b>Total Gallons</b> | <b>Per 1000 Gal<br/>\$9.75</b> | <b>Per Trip<br/>\$77.00</b> | <b>Additional Charges</b> |
|-------------------------------|----------------------|----------------------|--------------------|----------------------|--------------------------------|-----------------------------|---------------------------|
| A-I Septic                    | 52396P1              | 2500                 | 0                  | 0                    | \$0.00                         | \$0.00                      | \$0.00                    |
| A&A Portables                 | 54107P1              | 1600                 | 8                  | 12,800               | \$124.80                       | \$616.00                    | \$0.00                    |
| A&A Portables                 | 8K42091              | 3495                 | 3                  | 10,485               | \$102.23                       | \$231.00                    | \$0.00                    |
| A&A Portables                 | 8H57716              | 1400                 | 2                  | 2,800                | \$27.30                        | \$154.00                    | \$0.00                    |
| A&A Portables                 | 27308L1              | 2000                 | 0                  | 0                    | \$0.00                         | \$0.00                      | \$0.00                    |
| A&A Portables                 | 7X14631              | 1500                 | 0                  | 0                    | \$0.00                         | \$0.00                      | \$0.00                    |
| A&A Portables                 | 44377M1              | 3495                 | 0                  | 0                    | \$0.00                         | \$0.00                      | \$0.00                    |
| A&J Rentals                   | 8A44004              | 650                  | 12                 | 7,800                | \$76.05                        | \$924.00                    | \$0.00                    |
| AAA Septic & Rooter           | 7S15871              | 3400                 | 17                 | 57,800               | \$563.55                       | \$1,309.00                  | \$0.00                    |
| ABC Plumbing                  | 7X61008              | 2400                 | 0                  | 0                    | \$0.00                         | \$0.00                      | \$0.00                    |
| ET Services                   | 7M36196              | 4000                 | 0                  | 0                    | \$0.00                         | \$0.00                      | \$0.00                    |
| Frank & Jrs Sewer Service     | 8M50181              | 3150                 | 15                 | 47,250               | \$460.69                       | \$1,155.00                  | \$0.00                    |
| G&C Septic                    | 33525L1              | 3350                 | 2                  | 6,700                | \$65.33                        | \$154.00                    | \$0.00                    |
| G&C Septic                    | 8W07059              | 3171                 | 0                  | 0                    | \$0.00                         | \$0.00                      | \$0.00                    |
| Parrish and Sons              | 43308P1              | 3600                 | 44                 | 158,400              | \$1,544.40                     | \$3,388.00                  | \$0.00                    |
| Parrish and Sons              | 7H09683              | 3400                 | 0                  | 0                    | \$0.00                         | \$0.00                      | \$0.00                    |
| Premium Packing               | 7R84640              | 1500                 | 2                  | 3,000                | \$29.25                        | \$154.00                    | \$0.00                    |
| Richards Pumping              | SE598579             | 2500                 | 67                 | 167,500              | \$1,633.13                     | \$5,159.00                  | \$0.00                    |
| Roto Rooter Sewer Services    | 7T36952              | 3382                 | 44                 | 148,808              | \$1,450.88                     | \$3,388.00                  | \$0.00                    |
| Roto Rooter Sewer Services    | 5E84939              | 3200                 | 21                 | 67,200               | \$655.20                       | \$1,617.00                  | \$0.00                    |
| SRC Pumping Co                | 4DE5675              | 4454                 | 3                  | 13,362               | \$130.28                       | \$231.00                    | \$0.00                    |
| <b>Monthly Total Charges:</b> |                      |                      | <b>240</b>         | <b>703,905</b>       | <b>\$6,863.07</b>              | <b>\$18,480.00</b>          | <b>\$0.00</b>             |

**Grand Total: \$25,343.07**