



**Napa Sanitation District**

**General Manager's Report**

**for**

**June, 2017**

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## NAPA SANITATION DISTRICT

## General Manager's Report

*Dedicated to Preserving the Napa River for Generations to Come*

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**DATE:** August 16, 2017

**FROM:** Timothy B. Healy, General Manager

**SUBJECT:** General Manager's Report for June, 2017

### **REGULATORY COMPLIANCE:**

Collection System Compliance:	0 Category 1 SSO's, 0 Category 2 SSO's, and 5 Category 3 SSO's
NPDES Permit (WWTP) Compliance:	Full compliance with all regulations
Air Quality Compliance:	Full compliance with all regulations
Recycled Water Compliance:	Full compliance with all regulations
Biosolids Compliance:	Full compliance with all regulations
Significant Comments:	None

### **FISCAL STATUS:**

Period Covered:	July 1, 2016 – June 30, 2017
Percent Fiscal Year:	100.0%
Operating Expenditures to date:	72.0%
Historical Expenditures to date:	94.7%
Significant Comments:	Only 25% of the intrafund transfer from the Operating to Capital Fund was done during the fiscal year due to low cash flow during the first half of the year. If the entire transfer was done, the "Operating Expenditures to date" would have been 90.5%. Also, the "Operating Expenditures to date" does not include all expenses for supplies and services that were incurred on or before June 30 <sup>th</sup> . There are some invoices for FY 2016-17 that need to be accrued and adjusting entries posted for the year-end process for FY 2016-17. An amended Budget Status report for June will be provided after the completion of the annual audit scheduled for the middle of September 2017.

### **PERSONNEL:**

Significant events for the month of June, 2017 in the Human Resources Department:

New Hires:	None
Separations:	Lance Smith, Collection System Worker II, retired; Frank Ziliotto, Operations Supervisor, retired.
Promotions:	Dan Fritz promoted to Operations Supervisor
Recruitment Activities:	Continued recruitment for Operator-in-Training/Operator I
Injuries:	One medical only injury, no lost time.

*Summaries of Operational Highlights are as follows:*

**COLLECTIONS:**

Significant events for the month of June 2017 in Collection System Maintenance include:

- The District had 0 Category 1 Sanitary Sewer Overflows (SSO's), 0 Category 2 SSO's and 5 Category 3 SSO's during the month. (A Category 1 is defined as an SSO that reached a drainage channel and/or surface water or; an SSO that reached a storm drain pipe that was not fully recovered and returned to the sanitary sewer system. A Category 2 is defined as an SSO that is equal to or greater than 1,000 gallons that did not reach a surface water. A Category 3 is defined as an SSO that is less than 1,000 gallons that did not reach a surface water. These are usually minor overflows of less than 10 gallons from cleanouts on District laterals that can be cleaned up by the crews.)
- The repair crew installed 6 cleanouts, repaired 1 cleanout and repaired/rehabilitated 15 sewer laterals. Additionally, the service response/programs crew completed 83 work orders in support of the grease and odor control program, responded to 49 customer requests for service (13 were NSD problem) and closed out 263 mark and locate request tickets.
- The preventative maintenance crews ran work orders on 82 laterals, cleaned approximately 79,433 feet of main line and CCTV inspected approximately 24,880 feet of main line and 77 laterals.
- The repair crew rehabilitated 6 laterals in one day using the CIPP method on two occasions this month. Previously, the most jobs completed in this manner in one day had been 4.

**TREATMENT PLANT:**

Significant events for the month of June 2017 in the Treatment Plant Department:

**Plant Operations:**

- For June 2017, the plant's influent flow was 206.4 MG as compared to last year flow for June 2016 of 193.5 MG
- There was no flow to the Napa River for June 2017
- The production of recycle quality occurred for 30 days during June 2017 with a total flow of 117.1 MG.
- There was .02" rain fall for June 2017 as compared to 0" rain fall for June 2016.
- Pond 4 end of the month recorded level reading was 19.27" as compared to June 2016 of 51.81". Total remaining pond capacity for June 2017 was 59.6% as compared to June 2016 remaining capacity of 35.4%.

Power Consumption and Production:

- This June power consumption purchased from PG&E was 338 MWH in comparison to June 2016 purchase of 479 MWH.
- Cogeneration unit ran 708 of 720 hours for the month – 99.33% uptime, averaging 313 Kw.
- Solar generation in June was 203 MWH, compared to 202 MWH in May.

Maintenance:

Significant events for the month of June, 2017:

Process Maintenance

- Cogeneration unit monthly emission test - in compliance with BAAQMD permit.
- Cogeneration Service;
  - Changed oil
  - Replaced oil filter socks & air pre-filter
- Replaced 4" spool on Grit Classifier
- Replaced Air Compressor for Huber Strain Press
- Changed odor media in scrubber unit at West Napa
- Daft Air Compressor – replaced valves, unloaders and unloader diaphragm
- Replaced Gas Compressor cooling water filter housing
- Replaced Compressor in Lab HVAC unit
- Drained and inspected both Primary Clarifiers
- DAF Clarifier inspection and repair;
  - Replaced wiper rubber on all arms
- Replaced Spiral Washer Assembly and Motor for Bar Screen #1 at Headworks

Projects

- DAF Clarifier - designed and fabricated sprayer system for scum trough

Standby Power

- Plant generators operational testing only
- Riverpark, West Napa, Stonecrest operational testing only

Influent Pumps

- Pumps are all operational

Laboratory:

- Monthly composite **Influent (INF-001)** monitoring was conducted on June 6<sup>th</sup>, 2017. Monthly Cyanide monitoring was conducted on June 7<sup>th</sup>. Sample analysis indicated no unusual results and was within local limits.
- Monthly **Recycle Effluent (REC-001)** monitoring was conducted on June 6<sup>th</sup>, 2017. Sample analysis indicated no unusual results and was within the state's Water Reuse Requirements and the District's Recycled Water limits.
- Quarterly **Biosolids (BIO-001)** monitoring was conducted between May 16<sup>th</sup> and May 18<sup>th</sup>, 2017 and between June 27<sup>th</sup> and June 30<sup>th</sup>, 2017. Sample analysis indicated no unusual results and was within EPA 503 Table 1 & Table 3 ceiling concentration limits.
- Annual **Groundwater (GRD-001)** monitoring was conducted on June 13<sup>th</sup>, 2017. Sample analysis indicated no unusual results.

RECYCLING:

Significant events in the Recycling Department for June 2017 include:

- Recycled water delivered for the month of June 2017 (110.628 million gallons), as compared to June 2016 (96.773 million gallons) is higher due to increase in district use. Delivered recycled water volume represents the sum of all use site flow meter consumption values.
- Staff initiated land application of biosolids at the Jameson Reuse Site.

POLLUTION PREVENTION:

Significant events in the Pollution Prevention Department for June 2017 include:

- One facility tours were given to the public. One presentation was given regarding the Browns Valley Trunk Sewer Project.
- The Napa Safe Medication Collection Program collected 368 pounds of unneeded medications. The total amount of unneeded medications collected since program inception in September 2010 is 20,802.2 pounds.
- The District issued 7 Toilet Rebates for \$700.
- The District issued 21 ESME Washer Rebates at \$12.50 each for a total of \$262.50.

**ENGINEERING / CAPITAL PROJECTS / DEVELOPMENT:**

Significant events occurring in the Engineering Department for June 2017 include:

- Consultant continued design of the Browns Valley Trunk Project.
- Staff received Consultant Proposals for the Buildability/Constructability review for the Browns Valley Trunk Project.
- Staff received Consultant Proposals for design services for the West Napa Pump Station Rehabilitation Project.
- Staff received Consultant Proposals for construction management and inspection services for the Recycled Water Reservoir Improvements Project.
- Contractor continued construction the MST Recycled Water Pipeline Expansion Project.
- Contractor continued construction phase activities for the Soscol/Sousa Trunk Rehabilitation Project.
- Consultant and Staff continued work on the Asset Management Plan.
- Consultant and Staff continued design of the Recycled Water Reservoir Improvements Project.
- Contractor continued construction of the 2017 Collection System Rehabilitation Project.
- Staff continued design of the 2018 Collection System Rehabilitation Project.
- Staff received a bid for the Upper Lateral Rehabilitation Basin L (Pilot #2) Project.
- Staff issued notice inviting bids of the Manhole Rehabilitation – Basin H Project.
- The Manhole Adjustment Project – Phase VI was awarded to the contractor.
- Contractor started construction for the LED Pole/Arm Fixture Replacement project.
- Staff reviewed 50 sets of development plans and deemed 28 sets of plans complete. The approved plans consisted of five residential laterals, six residential buildings, one residential demolition, six tenant improvements, three commercial buildings, one main extension, three public laterals and three recycled water laterals.

**Budget Status & Cash Summary - July 1, 2016 - June 30, 2017 (100.0% of the year)**

<i>Expenditures</i>	<b>FY 16/17 Budget</b>	<b>Expenditures to date</b>	<b>Encumbrances</b>	<b>Committed to date</b>	<b>Remaining Balance</b>	<b>Percent Committed</b>
<b><u>Operating</u></b>						
Salaries & Benefits	\$9,391,370	\$8,792,605	\$0	\$8,792,605	\$598,765	93.6%
Services & Supplies	6,037,110	5,164,512	-	5,164,512	872,598	85.5%
Taxes	28,250	26,545	-	26,545	1,705	94.0%
Debt Service	4,773,050	4,770,891	-	4,770,891	2,159 (1)	100.0%
Intrafund Transfers	8,900,000	2,225,000	-	2,225,000	6,675,000 (2)	25.0%
<b>Total Operating:</b>	<b>\$29,129,780</b>	<b>\$20,979,553</b>	<b>\$0</b>	<b>\$20,979,553</b>	<b>\$8,150,227 (3)</b>	<b>72.0%</b>
<b><u>Capital</u></b>						
Bldgs/Improvements & Equip	\$19,283,750	\$10,154,900	\$0	\$10,154,900	\$9,128,850 (4)	52.7%
Intrafund Transfers	5,512,000	5,512,000	-	5,512,000	-	100.0%
<b>Total Capital :</b>	<b>\$24,795,750</b>	<b>\$15,666,900</b>	<b>\$0</b>	<b>\$15,666,900</b>	<b>\$9,128,850</b>	<b>63.2%</b>
<b>Grand Total Expenditures:</b>	<b>\$53,925,530</b>	<b>\$36,646,453</b>	<b>\$0</b>	<b>\$36,646,453</b>	<b>\$17,279,077</b>	<b>68.0%</b>

<i>Revenues</i>	<b>FY 16/17 Budget</b>	<b>Collected to date</b>	<b>Encumbrances</b>	<b>Received to Date</b>	<b>Uncollected Revenue</b>	<b>Percent Collected</b>
<b><u>Operating</u></b>						
Use of Money/Property	\$794,000	\$819,953		\$819,953	(\$25,953)	103.3%
Intergovernmental	\$0	\$13,680		13,680	(13,680)	N/A
Charges for Services	23,828,500	23,469,059		23,469,059	359,441	98.5%
Miscellaneous Revenues	69,000	98,715		98,715	(29,715) (5)	143.1%
Donations/Contributions (Capital Labor)	-	727,921		727,921	(727,921) (6)	N/A
<b>Total Operating:</b>	<b>\$24,691,500</b>	<b>\$25,129,328</b>		<b>\$25,129,328</b>	<b>(\$437,828)</b>	<b>101.8%</b>
<b><u>Capital</u></b>						
Use of Money/Property	\$34,000	\$3,405		\$3,405	\$30,595	10.0%
Capacity Charges	5,512,000	5,471,165		5,471,165	40,835	99.3%
Intergovernmental	2,250,000	2,862,215		2,862,215	(612,215)	127.2%
Bond Proceeds	4,550,000	-		-	4,550,000	0.0%
Sale of Assets	-	27,729		27,729	(27,729)	N/A
Miscellaneous Revenues	-	-		-	-	N/A
Intrafund Transfers	14,412,000	7,737,000		7,737,000	6,675,000 (2)	53.7%
<b>Total Capital:</b>	<b>\$26,758,000</b>	<b>\$16,101,514</b>		<b>\$16,101,514</b>	<b>\$10,656,486</b>	<b>60.2%</b>
<b>Grand Total Revenue:</b>	<b>\$51,449,500</b>	<b>\$41,230,842</b>		<b>\$41,230,842</b>	<b>\$10,218,658</b>	<b>80.1%</b>

**Cash on Hand as of 6/30/17**

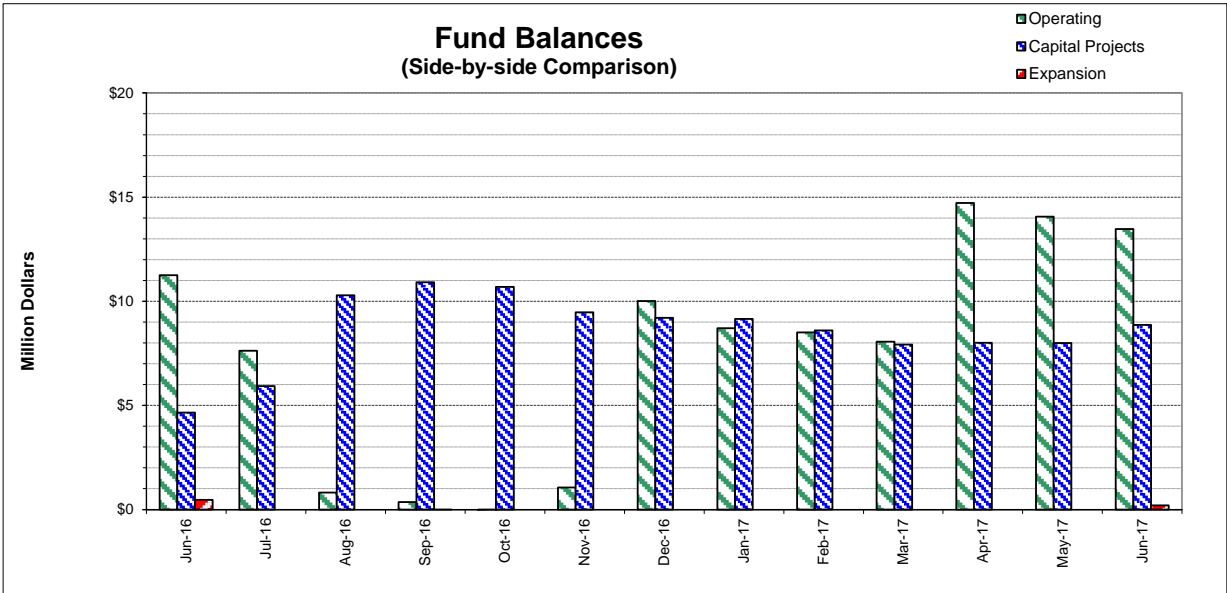
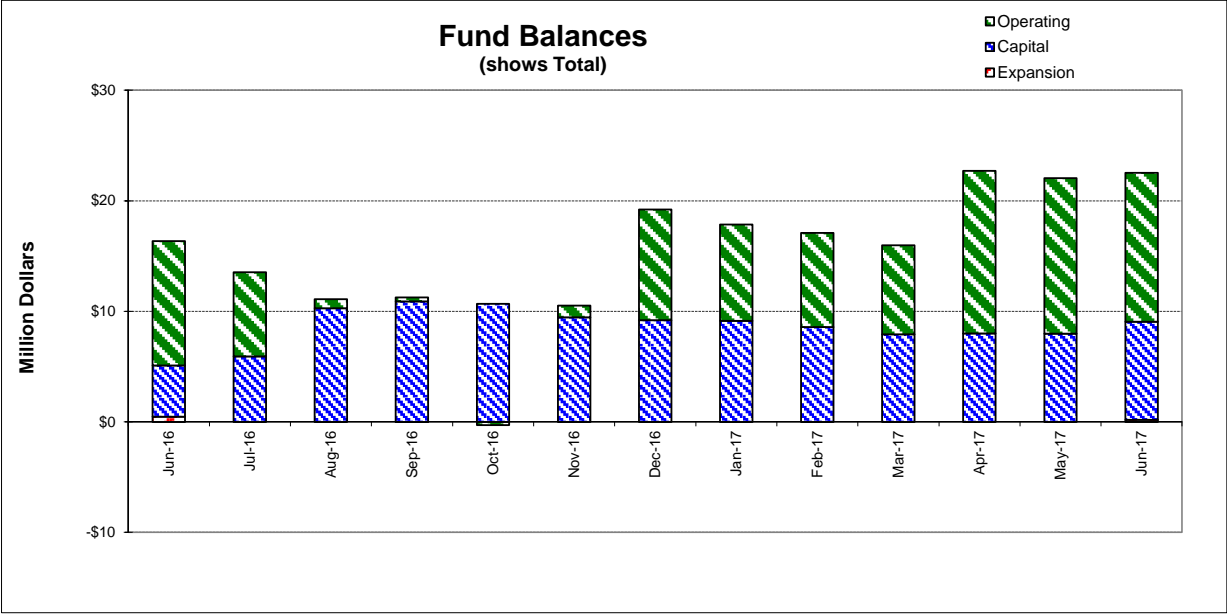
**\$22,532,162**

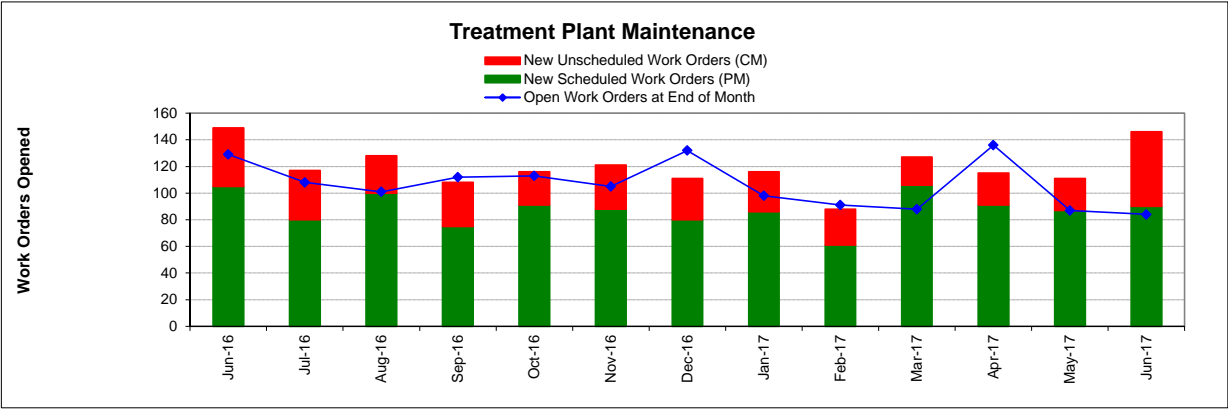
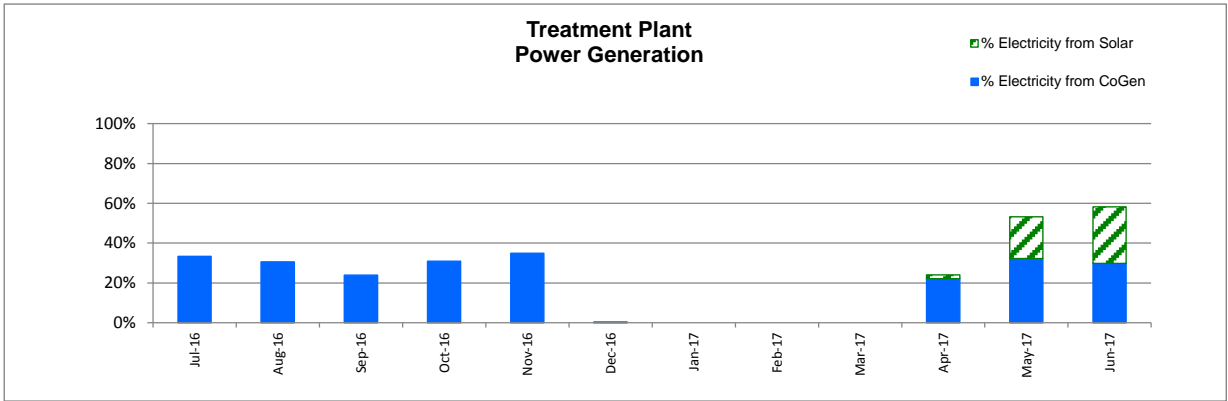
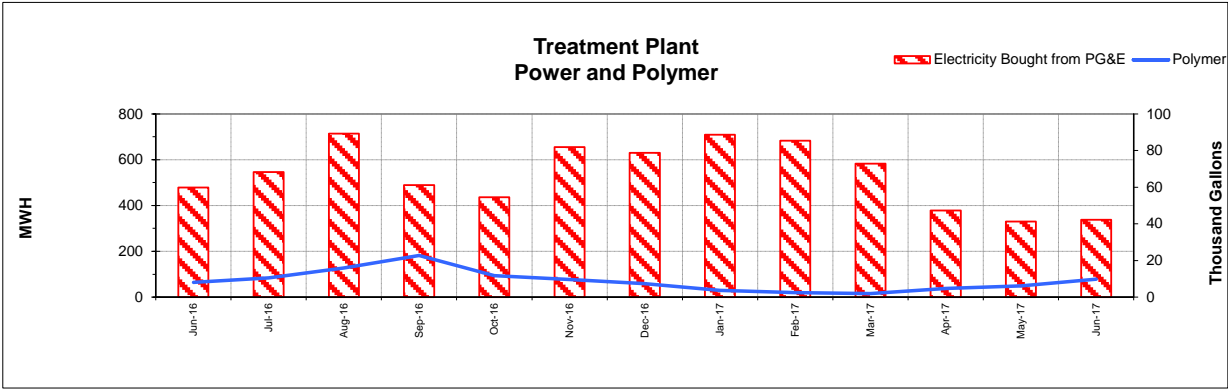
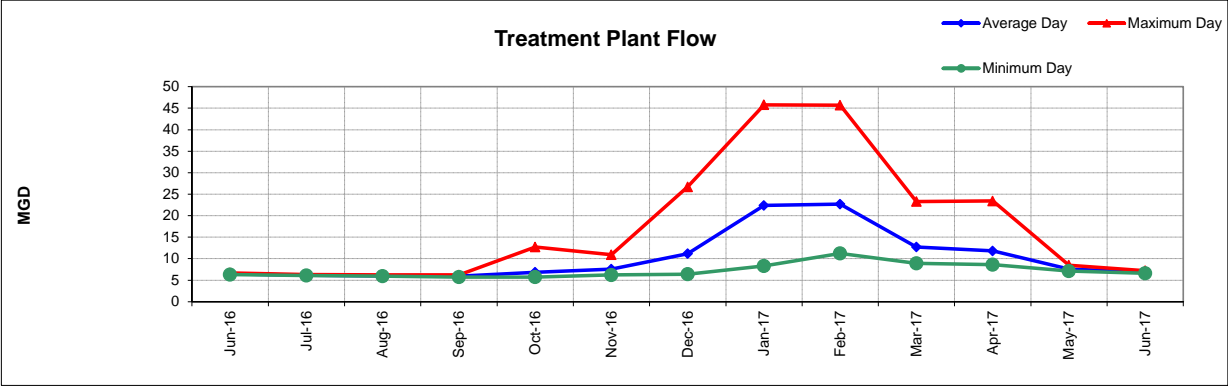
\*\*excluding Debt Service restricted funds  
06/30/17 - Effective Rate of Return = 0.99%

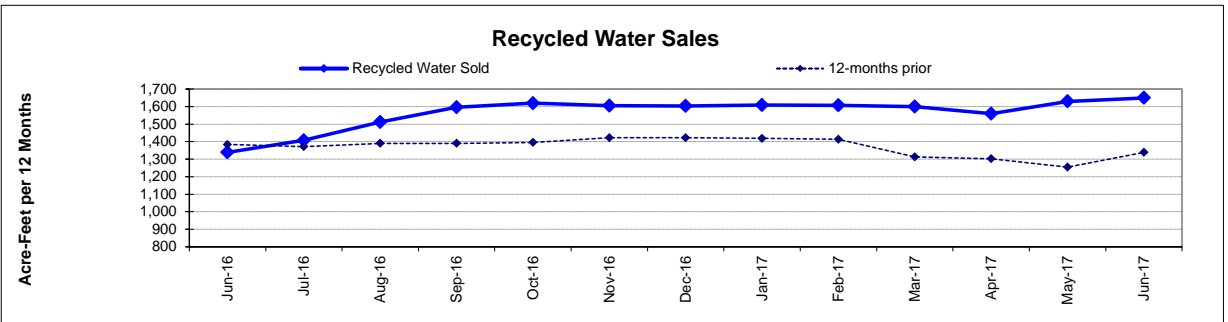
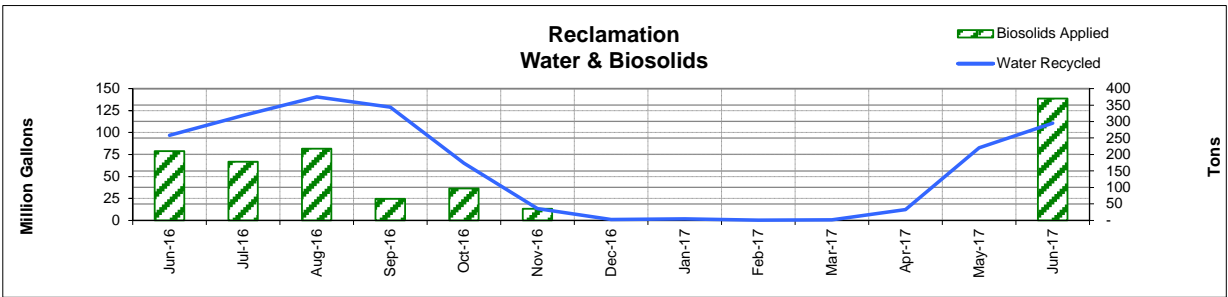
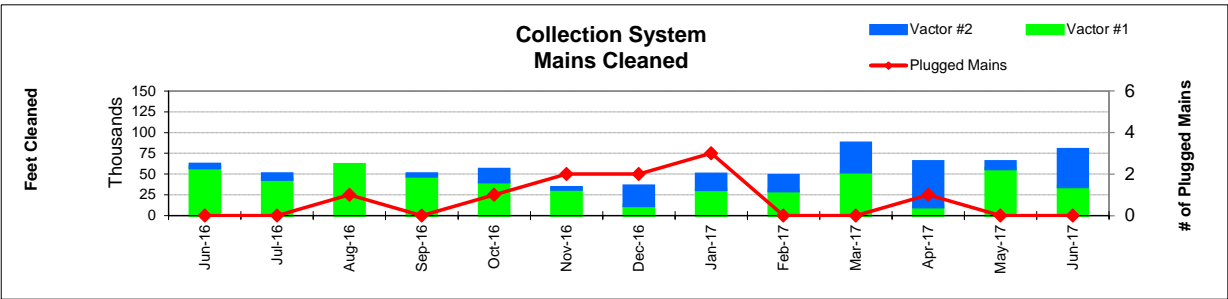
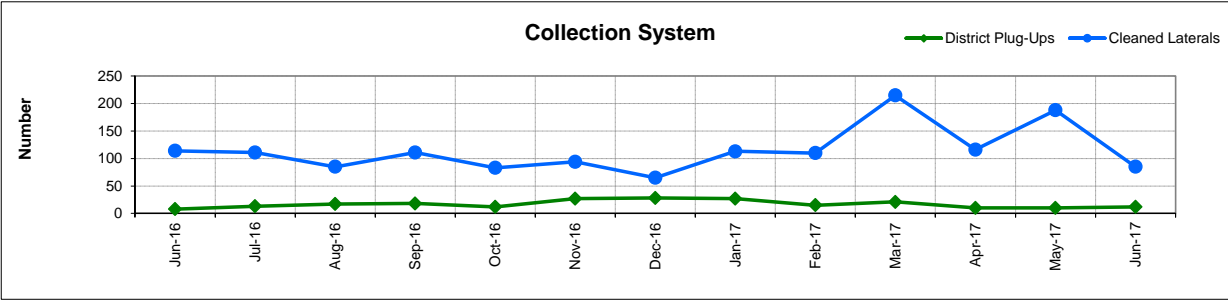
1. Series 2009B's and 2012A's principal/interest payments made in Aug & Feb
2. Processed 25% of intrafund transfer budget from Operating to Capital in July
3. Includes Debt Service and Intrafund Transfers; otherwise is 90.4%
4. See Capital Project Status report for details
5. Includes payment from consultant for a special board meeting on the solar power project.
6. In-house Labor for Capital Projects (Contra acct for Salaries)

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**FUND BALANCES - MONTHLY**

<b>CATEGORY</b>	<b>Jun-16</b>	<b>Jul-16</b>	<b>Aug-16</b>	<b>Sep-16</b>	<b>Oct-16</b>	<b>Nov-16</b>	<b>Dec-16</b>	<b>Jan-17</b>	<b>Feb-17</b>	<b>Mar-17</b>	<b>Apr-17</b>	<b>May-17</b>	<b>Jun-17</b>
<i>(Thousand Dollars)</i>													
7800	11,251	7,626	819	362	(293)	1,062	10,012	8,701	8,506	8,055	14,722	14,059	13,463
7850	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Subtotal Operating</b>	<b>11,251</b>	<b>7,626</b>	<b>819</b>	<b>362</b>	<b>(293)</b>	<b>1,062</b>	<b>10,012</b>	<b>8,701</b>	<b>8,506</b>	<b>8,055</b>	<b>14,722</b>	<b>14,059</b>	<b>13,463</b>
Capital Improvement Projects	4,649	5,924	10,284	10,912	10,685	9,470	9,204	9,154	8,598	7,921	8,001	7,995	8,867
Debt Proceeds	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Subtotal Capital</b>	<b>4,649</b>	<b>5,924</b>	<b>10,284</b>	<b>10,912</b>	<b>10,685</b>	<b>9,470</b>	<b>9,204</b>	<b>9,154</b>	<b>8,598</b>	<b>7,921</b>	<b>8,001</b>	<b>7,995</b>	<b>8,867</b>
<b>Total Discretionary Funds</b>	<b>15,900</b>	<b>13,550</b>	<b>11,103</b>	<b>11,274</b>	<b>10,392</b>	<b>10,532</b>	<b>19,216</b>	<b>17,855</b>	<b>17,104</b>	<b>15,976</b>	<b>22,723</b>	<b>22,054</b>	<b>22,330</b>
Expansion Fund (Restricted)	467	-	-	1	-	-	-	-	-	-	-	-	202
<b>Total Restricted Funds</b>	<b>467</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>202</b>
<b>TOTAL ALL FUNDS</b>	<b>16,367</b>	<b>13,550</b>	<b>11,103</b>	<b>11,275</b>	<b>10,392</b>	<b>10,532</b>	<b>19,216</b>	<b>17,855</b>	<b>17,104</b>	<b>15,976</b>	<b>22,723</b>	<b>22,054</b>	<b>22,532</b>

# DEVELOPMENT WORKLOAD - MONTHLY

CATEGORY	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17
<b><u>Phone Requests</u></b>													
Maps/Drawings	5	5	9	5	8	7	4	9	7	4	5	5	5
Lateral Permits	-	-	-	-	-	-	-	-	2	2	-	-	-
Policy Questions	10	7	11	7	3	8	6	6	10	6	4	10	19
Development Questions	75	99	126	56	61	48	47	45	60	63	62	91	95
Miscellaneous	14	14	15	7	4	6	4	8	6	6	8	8	10
<b>TOTAL</b>	<b>104</b>	<b>125</b>	<b>161</b>	<b>75</b>	<b>76</b>	<b>69</b>	<b>61</b>	<b>68</b>	<b>85</b>	<b>81</b>	<b>79</b>	<b>114</b>	<b>129</b>
<b><u>Counter Requests</u></b>													
Maps/Drawings	-	3	7	5	1	-	1	2	1	-	1	3	6
Lateral Permits	12	9	19	19	13	14	7	11	5	11	10	10	18
Policy Questions	2	-	2	2	2	1	-	3	2	1	-	5	2
Development Questions	10	17	30	17	10	8	4	9	13	5	15	29	21
Miscellaneous	3	5	6	4	2	1	2	3	1	-	1	5	6
<b>TOTAL</b>	<b>27</b>	<b>34</b>	<b>64</b>	<b>47</b>	<b>28</b>	<b>24</b>	<b>14</b>	<b>28</b>	<b>22</b>	<b>17</b>	<b>27</b>	<b>52</b>	<b>53</b>
<b><u>Initial Request (Referrals)</u></b>	14	12	22	10	7	21	23	17	11	25	17	22	20
<b><u>Connection Permits Issued</u></b>													
Residential Permits	9	-	1	1	21	-	-	-	1	3	1	1	12
Commercial Permits	2	1	1	2	6	4	3	-	1	3	1	4	2
Industrial Permits	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>TOTAL PERMITS</b>	<b>11</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>27</b>	<b>4</b>	<b>3</b>	<b>-</b>	<b>2</b>	<b>6</b>	<b>2</b>	<b>5</b>	<b>14</b>
Residential Units	9	-	1	1	21	-	-	-	1	3	1	2	35
Commercial Units	2	1	1	146	14	4	3	-	3	-	1	4	7
<b>TOTAL UNITS</b>	<b>11</b>	<b>1</b>	<b>2</b>	<b>147</b>	<b>35</b>	<b>4</b>	<b>3</b>	<b>-</b>	<b>4</b>	<b>3</b>	<b>2</b>	<b>6</b>	<b>42</b>
<b><u>Annexations</u></b>													
Submitted	1	-	-	1	-	1	-	-	-	-	-	-	-
Acreage	1.50	-	-	1.10	-	27.11	-	-	-	-	-	-	-
<b><u>Plans Reviewed</u></b>													
<b><u>Subdivisions/Sites</u></b>													
First Submittal	5	1	8	4	3	5	2	10	2	4	11	6	8
Second Submittal	1	1	6	4	3	-	2	2	3	7	6	8	4
Third Submittal	1	3	1	7	-	1	3	2	1	5	1	2	8
<b><u>Building/Tenant Improvements</u></b>													
First Submittal	10	3	12	4	8	5	4	10	5	7	4	9	17
Second Submittal	4	6	4	9	3	4	4	5	2	5	4	4	5
Third Submittal	3	5	1	5	3	8	6	2	1	10	3	7	8
<b><u>Miscellaneous Plan Reviews</u></b>													
	-	-	-	-	-	-	-	1	-	-	-	-	-
<b>TOTAL PLANS REVIEWED</b>	<b>24</b>	<b>19</b>	<b>32</b>	<b>33</b>	<b>20</b>	<b>23</b>	<b>21</b>	<b>32</b>	<b>14</b>	<b>38</b>	<b>29</b>	<b>36</b>	<b>50</b>

# INSPECTION WORKLOAD - MONTHLY

CATEGORY	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17
<b><u>CONSTRUCTION</u></b>													
Locating Sewers	-	-	-	-	-	-	-	-	-	-	-	-	-
Permit Processing	-	-	-	-	-	-	-	-	-	-	-	-	1
Preconstruction Meetings	7	3	9	-	5	6	5	9	6	6	4	1	2
Inspections - Mains	-	2	1	-	-	10	1	-	-	6	1	-	4
Inspections - Manholes	13	3	-	-	81	27	89	46	16	15	61	1	9
Inspections - Laterals	22	20	20	9	7	37	11	24	17	50	14	3	8
Inspections - Cleanouts	51	28	25	4	29	71	20	42	38	74	25	-	2
Inspections - Review Video	4	-	3	-	2	2	4	1	-	-	-	2	-
Demo - Septic Tanks	-	-	-	-	-	-	-	-	-	-	-	-	-
Demo - Buildings	2	-	1	-	-	-	-	2	-	1	2	-	-
Update Record Drawings	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>99</b>	<b>56</b>	<b>59</b>	<b>13</b>	<b>124</b>	<b>153</b>	<b>130</b>	<b>124</b>	<b>77</b>	<b>152</b>	<b>107</b>	<b>7</b>	<b>26</b>
<b><u>MISCELLANEOUS</u></b>													
Meter Readings	9	10	9	-	9	-	18	100	-	13	24	-	-
Washdown Facility Inspections	-	-	-	-	-	19	-	-	-	-	-	-	-
General Customer Assistance	1	4	4	9	13	-	6	11	11	10	12	11	30
City of Napa Water Discharge	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>10</b>	<b>14</b>	<b>13</b>	<b>9</b>	<b>22</b>	<b>19</b>	<b>24</b>	<b>111</b>	<b>11</b>	<b>23</b>	<b>36</b>	<b>11</b>	<b>30</b>
<b><u>SPECIAL PROJECTS</u></b>													
	22	31	22	7	9	32	2	0	6	16	0	0	22

# POLLUTION PREVENTION WORKLOAD - MONTHLY

CATEGORY	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17
<b><u>Outreach Activities</u></b>													
Plant Tours Conducted	2	0	0	0	7	8	0	1	4	11	3	4	1
Presentations Made	0	0	1	0	0	3	0	1	2	1	1	5	1
<b>Total Outreach Activities</b>	2	-	1	-	7	11	-	2	6	12	4	9	2
<b><u>Inspections Conducted</u></b>													
Food Service Facilities	-	-	-	1	-	-	37	21	53	35	25	-	-
Auto Body & Car Wash	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Inspections</b>	-	-	-	1	-	-	37	21	53	35	25	-	-
<b><u>Compliance Issues</u></b>													
NOVs Issued	2	1	-	-	-	-	2	-	1	4	-	-	1
NOEs Issued	-	-	-	1	-	1	2	-	1	1	-	1	-
Non-Compliant-FOG	-	-	-	-	-	-	-	-	1	1	-	-	-
<b>Total Compliance Issues</b>	2	1	-	1	-	1	4	-	3	6	-	1	1
<b><u>Pollution Prevention</u></b>													
Clothes Washer Rebates	45	-	-	-	-	20	26	28	21	-	-	28	21
Toilet Retrofit Rebates	10	-	11	4	12	8	12	5	4	7	1	2	7
Pharmaceuticals Diverted (in lbs)	243	362	303	386	391	291	63	155	201	71	185	302	368

**RECYCLED WATER DELIVERIES - MONTHLY**

	Acres	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17
<b>MONTHLY (MG)</b>														
<b>Water Sold</b>														
Golf Courses	405.0	57.273	62.709	63.227	49.600	25.538	6.308	0.002	0.245	-	0.081	2.513	53.481	66.261
Cemeteries	5.0	0.709	0.931	0.754	1.225	0.328	0.010	0.000	-	-	-	-	0.705	0.754
Parks	18.5	1.078	1.299	1.172	0.741	0.205	-	-	-	-	0.002	0.001	0.624	1.020
Schools	21.0	2.675	2.181	2.120	1.497	0.630	0.014	0.006	0.005	-	0.005	0.013	1.396	2.604
Commerical	167.6	17.061	14.878	17.259	15.070	9.563	3.457	0.490	1.191	0.404	0.501	2.493	15.246	17.491
Vineyards	564.0	13.413	15.693	21.832	17.609	6.065	3.528	0.302	0.194	0.063	0.101	7.119	4.868	10.709
Trucked Water	175.0	0.135	0.232	0.458	0.135	0.124	0.008	0.188	0.009	0.002	0.015	0.018	0.027	0.051
<b>Subtotal Sales</b>	<b>1,356.1</b>	<b>92.343</b>	<b>97.923</b>	<b>106.821</b>	<b>85.877</b>	<b>42.454</b>	<b>13.326</b>	<b>0.988</b>	<b>1.644</b>	<b>0.469</b>	<b>0.705</b>	<b>12.156</b>	<b>76.347</b>	<b>98.891</b>
<b>District Use</b>														
Jameson	330.0	1.481	5.414	12.456	20.935	12.608	-	-	0.089	-	0.087	0.032	-	-
Somky	213.0	2.950	16.037	21.318	22.108	10.000	0.001	-	-	-	0.002	-	6.256	11.738
Fagundes/Airport	50.5	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Subtotal District</b>	<b>593.5</b>	<b>4.431</b>	<b>21.451</b>	<b>33.774</b>	<b>43.043</b>	<b>22.609</b>	<b>0.001</b>	<b>-</b>	<b>0.089</b>	<b>-</b>	<b>0.089</b>	<b>0.032</b>	<b>6.256</b>	<b>11.738</b>
<b>TOTAL DELIVERED</b>	<b>1,949.6</b>	<b>96.773</b>	<b>119.374</b>	<b>140.594</b>	<b>128.920</b>	<b>65.062</b>	<b>13.327</b>	<b>0.988</b>	<b>1.733</b>	<b>0.469</b>	<b>0.794</b>	<b>12.188</b>	<b>82.603</b>	<b>110.628</b>
<b>ANNUAL (AF)</b>														
<b>Water Sold</b>														
Golf Courses	405.0	869	891	920	946	960	971	968	969	969	969	936	985	1,013
Cemeteries	5.0	13	13	13	15	14	14	14	14	14	14	14	14	14
Parks	18.5	17	17	17	17	16	16	16	16	16	16	16	16	16
Schools	21.0	37	38	38	37	36	34	34	34	34	34	33	32	32
Commerical	167.6	294	293	302	308	304	301	301	304	305	299	287	300	301
Vineyards	564.0	103	149	215	268	285	265	266	266	265	264	270	279	270
Trucked Water	175.0	5	5	6	5	4	4	5	5	5	5	4	4	4
<b>Subtotal Sales</b>	<b>1,356.1</b>	<b>1,339</b>	<b>1,407</b>	<b>1,512</b>	<b>1,596</b>	<b>1,619</b>	<b>1,605</b>	<b>1,603</b>	<b>1,609</b>	<b>1,607</b>	<b>1,600</b>	<b>1,559</b>	<b>1,630</b>	<b>1,650</b>
<b>District Use</b>														
Jameson	330.0	107	124	153	167	163	163	163	163	163	163	163	163	158
Somky	213.0	195	208	230	223	222	222	222	222	222	222	222	241	268
Fagundes/Airport	50.5	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Subtotal District</b>	<b>593.5</b>	<b>302</b>	<b>332</b>	<b>383</b>	<b>390</b>	<b>385</b>	<b>385</b>	<b>385</b>	<b>385</b>	<b>385</b>	<b>385</b>	<b>385</b>	<b>404</b>	<b>427</b>
<b>TOTAL DELIVERED</b>	<b>1,949.6</b>	<b>1,641</b>	<b>1,739</b>	<b>1,894</b>	<b>1,986</b>	<b>2,004</b>	<b>1,990</b>	<b>1,988</b>	<b>1,994</b>	<b>1,992</b>	<b>1,985</b>	<b>1,945</b>	<b>2,034</b>	<b>2,077</b>



## BIOSOLIDS HANDLING - MONTHLY

Site	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17
Land Applied by NSD													
Somky													
Airport/Fagundes													
Jameson Canyon	210	178	217	65	97	35	-	-	-	-	-	-	370
Subtotal by NSD	210	178	217	65	97	35	-	-	-	-	-	-	370
Land Applied by Contractor													
Somky													
Airport/Fagundes													
Jameson Canyon													
Subtotal by Contractor	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Land Applied	210	178	217	65	97	35	-	-	-	-	-	-	370
Off Site (Contractor)													
Total (tons)	210	178	217	65	97	35	-	-	-	-	-	-	370

# COLLECTION SYSTEM MAINTENANCE - MONTHLY

CATEGORY	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17
<b><u>Plugups</u></b>													
<b>Total Calls</b>	33	48	52	48	56	68	84	75	51	61	39	37	44
Business Hours	22	27	35	35	34	38	54	49	30	43	25	21	25
After Hours	11	21	17	13	22	30	30	26	21	18	14	16	19
District's	8	13	17	18	12	27	28	27	15	21	10	10	12
Property Owner's	25	35	35	30	44	41	56	48	36	40	29	27	32
Plugged Main Lines			1		1	2	2	3					
Run Lateral w/Eel	114	111	85	111	83	94	65	113	110	215	116	188	85
<b><u>Cleaning (feet of sewer)</u></b>													
Vactor #1	57,690	43,988	61,502	47,869	40,711	32,046	12,220	31,694	30,016	52,800	10,888	56,860	35,077
Vactor #2	4,002	6,288		2,184	14,730	1,512	23,277	18,222	18,062	34,405	53,959	7,819	44,357
Hydro													
Rodder													
<b>Total (feet)</b>	<b>61,692</b>	<b>50,277</b>	<b>61,502</b>	<b>50,053</b>	<b>55,442</b>	<b>33,557</b>	<b>35,497</b>	<b>49,915</b>	<b>48,077</b>	<b>87,205</b>	<b>64,846</b>	<b>64,679</b>	<b>79,433</b>
<b><u>Cleaning Days</u></b>													
Vactor #1	19	18	19	16	17	16	15	16	18	25	22	20	28
Vactor #2	17	15	19	15	13	15	7	9	11	14	5	16	12
Hydro	2	3		1	4	1	8	7	7	11	17	4	16
Rodder													
<b><u>Feet/day</u></b>													
Vactor #1	3,250	2,800	3,250	3,150	3,250	2,100	2,350	3,100	2,650	3,500	2,950	3,250	2,850
Vactor #2	3,400	2,950	3,250	3,200	3,150	2,150	1,750	3,500	2,750	3,750	2,200	3,550	2,900
Hydro	2,000	2,100		2,200	3,700	1,500	2,900	2,600	2,600	3,150	3,150	1,950	2,750
Rodder													
<b><u>Video Inspections</u></b>													
Mains (feet)	15,115	3,878	15,885	6,453	10,131	6,826	13,141	5,981	6,398	17,209	15,580	25,066	24,881
Laterals (each)	152	183	140	161	174	182	191	203	175	324	249	251	205
<b><u>Construction (each)</u></b>													
Cleanouts	10	7	3	16	8	10	6	4	10	16	4	16	7
Laterals	5	4			10	5		1		4	3	4	15
Mains					3								
Manholes					1					1			
Other												50	
<b><u>USA Markings</u></b>													
Regular (w/in 2 days)	225	244	326	252	215	214	160	151	186	254	305	297	258
Emergency (w/in 2 hours)	6	14	8	10	6	4	18	7	7	13	8	3	6

## WASTEWATER PLANT OPERATIONS DATA - MONTHLY

[illegible]

# **WASTEWATER PLANT MAINTENANCE and LABORATORY DATA - MONTHLY**

<b>CATEGORY</b>	<b>Jun-16</b>	<b>Jul-16</b>	<b>Aug-16</b>	<b>Sep-16</b>	<b>Oct-16</b>	<b>Nov-16</b>	<b>Dec-16</b>	<b>Jan-17</b>	<b>Feb-17</b>	<b>Mar-17</b>	<b>Apr-17</b>	<b>May-17</b>	<b>Jun-17</b>
<b><u>Scheduled</u></b>													
Old	53	55	37	39	50	57	48	75	49	43	40	75	41
New	105	80	100	75	91	88	80	86	61	106	91	87	90
Completed	103	98	98	64	84	97	53	112	67	109	56	121	94
<b>New Balance</b>	<b>55</b>	<b>37</b>	<b>39</b>	<b>50</b>	<b>57</b>	<b>48</b>	<b>75</b>	<b>49</b>	<b>43</b>	<b>40</b>	<b>75</b>	<b>41</b>	<b>37</b>
<b><u>Unscheduled</u></b>													
Old	71	74	71	62	62	56	57	57	49	48	48	61	46
New	44	37	28	33	25	33	31	30	27	21	24	24	56
Completed	41	40	37	33	31	32	31	38	28	21	11	39	55
<b>New Balance</b>	<b>74</b>	<b>71</b>	<b>62</b>	<b>62</b>	<b>56</b>	<b>57</b>	<b>57</b>	<b>49</b>	<b>48</b>	<b>48</b>	<b>61</b>	<b>46</b>	<b>47</b>
<b><u>Total Work Orders</u></b>													
Old	124	129	108	101	112	113	105	132	98	91	88	136	87
New	149	116	128	108	116	121	111	116	88	127	115	111	146
Completed	144	138	136	96	115	129	84	151	95	130	67	161	149
<b>New Balance</b>	<b>129</b>	<b>108</b>	<b>101</b>	<b>112</b>	<b>113</b>	<b>105</b>	<b>132</b>	<b>98</b>	<b>91</b>	<b>88</b>	<b>136</b>	<b>87</b>	<b>84</b>
<b><u>LAB ANALYSES</u></b>													
<b>Sample Type</b>													
Regulatory	158	193	179	193	204	168	175	192	214	210	218	177	230
Process Control	729	744	907	739	766	1,315	1,209	1,189	1,051	1,370	1,167	820	1,107
Special Request	11	207	93	-	19	39	40	3	1	1	-	6	200
Quality Control/Assurance	5	32	5	5	50	302	299	303	272	301	497	32	47
<b>TOTAL</b>	<b>903</b>	<b>1,176</b>	<b>1,184</b>	<b>937</b>	<b>1,039</b>	<b>1,824</b>	<b>1,723</b>	<b>1,687</b>	<b>1,538</b>	<b>1,882</b>	<b>1,882</b>	<b>1,035</b>	<b>1,584</b>

**Summary of NSD Capital Project Status  
through 06-30-17**

Proj #	Description	FY 16-17 Budget	FY 15-16 Carryovers	Adj.	Final FY 16-17 Budget	Encumbrance	Costs Paid to Date	Budget Remaining	% Budget Expended
	<b><u>COLLECTION SYSTEM</u></b>								
13701	Main Line Sewer Rehab	88,700		(60,000)	28,700	-	5,226	23,474	18%
13702	Manhole Raising/Rehab	198,900		60,000	258,900	-	239,695	19,205	93%
13703	Lateral Replacement/Rehab	72,000			72,000	-	69,298	2,702	96%
13704	Cleanouts Installation/Rehab	87,000			87,000	-	63,901	23,099	73%
13705	I&I Reduction Program	200,000		24,000	224,000	-	194,970	29,030	87%
14703	Browns Valley Rd & First St	2,800,000	813,800		3,613,800	-	609,007	3,004,793	17%
15703	Sarco Crk PL Rplcmnt/CalTRANS	1,050,000	(34,250)	98,000	1,113,750	-	993,650	120,100	89%
15721	ACP CIPP Lining Project #1	-	330,000	(18,400)	311,600	-	311,543	58	100%
16701	Basin L - I&I Reduction #5	1,400,000	(490,400)	(189,500)	720,100	-	715,956	4,144	99%
16718	NN Siphon Vault Cover Replacement	-	5,000		5,000	-	1	4,999	0%
16723	Milliken Creek Sewer Repair	-	150,000	119,000	269,000	-	268,955	45	100%
17701	ACP CIPP Lining Project #2	350,000		(350,000)	-	-	-	-	-
17702	Upper Lateral Rehab - Basin L (Pilot #2)	5,000		4,200	9,200	-	9,200	-	100%
17703	Manhole Rehab - Nipak	90,000		3,000	93,000	-	92,089	911	99%
17704	Infiltrtn Rehab - SSMH/PL (CI-)	400,000		(300,000)	100,000	-	26,071	73,929	26%
17705	Soscol Ave (8th to Oil Co Rd)	500,000			500,000	-	84,075	415,925	17%
17706	Rehab - Ranch De Los Robles	400,000		(400,000)	-	-	-	-	-
17707	66-inch Trunk CCTV Inspection	150,000			150,000	-	630	149,370	0%
17708	Basin G - I&I Reduction #1	1,200,000		1,180,000	2,380,000	-	875,006	1,504,994	37%
17734	Homewood/Westwood I/I Reduction	-		200,000	200,000	-	139,693	60,307	70%
	<b><u>COLLECTION SYSTEM - EQUIPMENT</u></b>								
17709	Eel Replacment 1	5,400		100	5,500	-	5,454	46	99%
17710	Vehicle 510 - Water Truck	207,900		(18,100)	189,800	-	186,160	3,640	98%
	<b><u>LIFT STATIONS</u></b>								
17711	West Napa PS - Rehab	1,750,000		(625,000)	1,125,000	-	3,635	1,121,365	0%
	<b><u>TREATMENT</u></b>								
16708	Algae to Digester with Thermal Study	-	50,450		50,450	-	3,617	46,833	7%
17712	Headworks/Primary - Odor Ctrl	20,000		5,000	25,000	-	17,015	7,985	68%
	<b><u>TREATMENT - EQUIPMENT</u></b>								
13741	Secondary PS Pump Rebuild (3)	37,500	7,200	7,500	52,200	-	52,081	119	100%
13743	Risidual Analyzers (Deox) Replacements	-		20,000	20,000	-	16,484	3,516	82%
14720	Belt Press Polymer Skid Replacement	-	55,700		55,700	-	47,724	7,976	86%
15711	Rotork Actuator Replacement	-	52,750	88,700	141,450	-	133,806	7,644	95%
15712	Rehab Pond 1 Storage Structure	25,000	5,000	(30,000)	-	-	-	-	-
15713	Aeration Basin Instrmntn/Ctrl	1,200,000	(126,000)	500,000	1,574,000	-	1,465,690	108,310	93%
16713	Buried Metallic Piping (eval/rehab)	40,000	10,000	(8,200)	41,800	-	-	41,800	-
16714	High Voltage System Repairs	-	30,000	50,000	80,000	-	13,467	66,533	17%
16715	Cogen Bottom End Overhaul	75,000	150,000		225,000	-	222,613	2,387	99%
17713	Secondary PS VFD Rplcmnt (3)	53,600			53,600	-	2,447	51,153	5%
17714	WWTP MP - 3W Sys Imprvmnts	60,000			60,000	-	23,852	36,148	40%
17715	Turbidimeters (7) Tertiary Rplcmnts	11,800		11,200	23,000	-	7,575	15,425	33%

**Summary of NSD Capital Project Status  
through 06-30-17**

Proj #	Description	FY 16-17 Budget	FY 15-16 Carryovers	Adj.	Final FY 16-17 Budget	Encumbrance	Costs Paid to Date	Budget Remaining	% Budget Expended
17716	FOG - Strain Press	200,000		(20,600)	179,400	-	167,472	11,928	93%
17717	Energy Audit - Odor Control VFD	51,700			51,700	-	10,678	41,022	21%
17718	Energy Audit - LED Pole/Arm Mounted Fixtures	78,100		50,000	128,100		83,309	44,791	65%
17719	Lab - Smpler 4700 - Pretreatment	7,500		(800)	6,700	-	-	6,700	-
17720	Lab - Smpler 4700 - Pretreatment	7,500			7,500	-	-	7,500	-
17721	Lab - Chlorophyll A Analyzer - Pond Water	5,400		800	6,200	-	6,105	95	98%
17722	Main - Stationary Gas Detector Replacment Ph 2	140,000		35,000	175,000	-	159,062	15,938	91%
17723	Main - Rotork Actuator Replacment	88,700		(88,700)	-	-	-	-	-
17724	Main - Primary Clarifier Exhaust Fan Replacment	5,000		(5,000)	-	-	-	-	-
17725	Main - Sump #3 Modification	10,000			10,000	-	-	10,000	-
17735	AB Mixer Basin #5	-		11,500	11,500	-	11,434	66	99%
17736	Impeller Pump (River Park)	-		9,300	9,300	-	9,260	40	100%
	<b><u>TREATMENT - STRUCTURES</u></b>								
13724	IPS Expansion	-	38,700		38,700	-	8,789	29,912	23%
17726	Headworks Equipment Rehab/Replacment	10,000		100,000	110,000	-	67,862	42,138	62%
17727	Roof Replacement - Digester 2nd Floor	125,000		(10,000)	115,000	-	110,713	4,287	96%
17728	Roof Replacement - AB/Blower Building	40,000		5,000	45,000	-	43,162	1,838	96%
17729	DAF Access Opening	20,000			20,000	-	-	20,000	-
	<b><u>SCADA</u></b>								
	<b><u>RECYCLING - DISTRICT</u></b>								
15717	Isolation Valve on Kirkland Line (Devlin Rd)	49,200	14,400	10,000	73,600	-	66,508	7,092	90%
16716	Line Recycled Water Reservoir	1,320,000	(18,400)	(1,000,000)	301,600	-	132,014	169,586	44%
17730	Jameson Solids Pad Dump Bay	15,000		(15,000)	-	-	-	-	-
17731	Jameson Office Trailer Replacment	25,000			25,000	-	19,405	5,595	78%
17732	Vehicle 710 - 8830 Tractor	200,000		(30,000)	170,000	-	165,932	4,068	98%
17733	Vehicle 172 - Ford F150	28,000		5,000	33,000	-	30,900	2,100	94%
	<b><u>RECYCLING - EXPANSION</u></b>								
13727	North Bay Wate Reuse Project	845,000			845,000	-	425,691	419,309	50%
14726	MST RW Pipeline Construction	-	500,000		500,000	-	30,107	469,893	6%
14727	Split N/S Lines, surge protection	-	50,000		50,000	-	19,506	30,494	39%
15718	LCWD Recycled Water Pipeline - Construction	-	500,000	(98,000)	402,000	-	52,567	349,433	13%
16722	MST RW Pipeline Extension	1,200,000	(700)	625,000	1,824,300	-	1,357,036	467,264	74%
	<b><u>OTHER</u></b>								
13729	Development Technical Support	231,800		45,000	276,800	-	276,800	-	100%
16717	Admin/Engineering Bldg - Acoustic Improvements	-	10,000		10,000	-	-	10,000	-
<b>GRAND TOTAL ALL PROJECTS</b>		<b>\$17,180,700</b>	<b>\$2,103,250</b>	<b>-</b>	<b>\$19,283,950</b>	<b>-</b>	<b>\$10,154,900</b>	<b>\$9,129,054</b>	<b>53%</b>