



**Napa Sanitation District**

**General Manager's Report**

**for**

**July, 2019**

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## NAPA SANITATION DISTRICT

## General Manager's Report

**DATE:** September 4, 2019

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

**SUBJECT:** General Manager's Report for July 2019

### **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, 2019 – July 31, 2019
Percent Fiscal Year:	8.3%
Operating Expenditures to date:	19.9%
Historical Expenditures to date:	18.2%
Significant Comments:	None.

### **PERSONNEL:**

Significant events for the month of July 2019 in the Human Resources Department:

New Hires:	Chris Mosier, Operator III
Separations:	None
Promotions:	None
Recruitment Activities:	None
Injuries:	None

*Summaries of Operational Highlights are on following pages.*

### **COLLECTIONS:**

Significant events for the month of July 2019 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 drainpipe 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 4 cleanouts and repaired 10 cleanouts. They also repaired 1 laterals and lined 10 laterals. Additionally, the service response/programs crew completed 120 work orders in support of the grease and odor control program, responded to 40 customer requests for service (15 were NSD problem) and closed out 431 mark and locate request tickets.
- The preventative maintenance crews ran work orders on 158 laterals, cleaned approximately 74,091 feet of main line and CCTV inspected 60 laterals. In addition, the CCTV truck televised 32,551 feet of mainline.

### **TREATMENT PLANT:**

Significant events for the month of July 2019 in the Treatment Plant Department:

#### **Plant Operations:**

- For July 2019, the plant's influent flow was 199.3 MG as compared to last year flow for July 2018 of 189.8 MG
- No river discharge occurred during July.
- There was 0.0" rainfall for July 2019 (Carneros Rainfall Center) as compared to 0.0" rainfall for July 2018.
- Pond 4 end of the month recorded level reading was 64.69". During July pond 3 was dewatered into pond 2 in preparation of pond 1 Sludge removal project next year.

#### **Power Consumption and Production:**

- July power purchased from PG&E was 358 MWH in comparison to June 2019 purchase of 346 MWH.
- Cogeneration unit ran 740 of 744 hours for the month – 99.46% uptime, averaging 354.51Kw, producing 262 MWH of energy.
- Solar generation in July was 217 MWH, compared to 211 MWH in June.

### **Maintenance:**

Significant events for the month of July 2019:

#### Process Maintenance

- Cogeneration unit monthly emission test - in compliance with BAAQMD permit
- IPS Bar Screen #1/replaced downstream level sensor
- Administration building comm room/replaced UPS
- Blower #2/replaced control transformers/fuses/capacitors
- Blower #3/replaced capacitors
- Replaced 12Kv jumpers at Switchgear "M"
- Installed Power Supply for PLC #5
- Repaired hole in scum box/primary clarifier #2
- Installed Conductivity probe in Headworks
- Replaced DAF Clarifier rake arm HMI display
- West Napa/replaced south wet well H2S sensor

#### Projects

- Build/install electrical control box/P-4 Polymer mix pump
- Install Solar Panels and Battery Chargers on Godwin portable pumps #820&821

#### Standby Power

- Plant generators ran in stand-by for 7 hours due to repairs to 12 Kv system
- Riverpark, Stonecrest, West Napa operational testing only

#### Influent Pumps

- All pumps operational

#### Laboratory:

Monthly Influent monitoring of all parameters occurred at the required frequencies. The following were notable sampling events:

- July 9, 2019: Metals, Mercury, Cyanide

#### **RECYCLING:**

Significant events in the Recycling Department for July 2019 include:

- Recycled water delivered for the month of July 2019 was (136.074 million gallons), as compared to July 2018 (132.327 million gallons) is higher from the previous year due to commercial landscape and district demand. Delivered recycled water volume represents the sum of all use site flow meter consumption values.
- Staff approved the connection of two new recycled water customers in the LCWD area.
- Staff continued the land application of biosolids at the Jameson Reuse site.

### **POLLUTION PREVENTION:**

Significant events in the Pollution Prevention and Outreach Division July 2019 include:

- There was one tour of the treatment plant given as part of the Third Thursday Tour series.
- NapaSan staff finished the design of the two truck wraps to be installed next month on the Camera and Water Trucks.
- In July, 132 pounds of medication were disposed of through the takeback program at Family Drug. The total amount of unneeded medications collected since the drug takeback program began in September 2010 is 21,997.2 pounds.
- There were no ESME Washer Rebates issued this month.

### **ENGINEERING / CAPITAL PROJECTS / DEVELOPMENT:**

Significant events occurring in the Engineering Division for July 2019 include:

- Consultant continued work on the SCADA Master Plan.
- Consultants and staff continued work on the CMMS implementation.
- Consultant continued work on the Pond 1 Dredge Project.
- Contractor continued construction of the Headworks Equipment Replacement Project.
- Contractor continued construction of the Southeast Napa Sewer and Roadway Rehabilitation Project.
- Staff continued design of the 2020 Collection System Rehabilitation Project.
- Consultant continued design of the 66-inch Trunk Sewer Rehabilitation Project.
- Staff continued design of the 2019 Manhole Rehabilitation Project.
- Staff began design of the Sanitary Sewer Manhole Adjustment Project, Phase IX.
- Staff received and opened bids for the Upper Lateral Rehabilitation Pilot Project #4.
- Consultant continued design of the Primary Clarifier Rehabilitation Project.
- Consultant continued design of the West Napa Pump Station Project.
- Contractor continued construction of the 2019 Treatment Plant Improvements Project.
- Contractor continued construction of the Pond Transfer Structure Project.
- Consultant continued working on the Collection System Master Plan.
- Contractor continued construction of the MST Truck Fill Station Project.
- Staff reviewed 39 sets of development plans and deemed 20 sets of plans complete. The approved plans consisted of 8 tenant improvements, 8 residential dwellings, 1 residential lateral, 2 commercial buildings, and 1 commercial mainline extension.

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**Budget Status & Cash Summary - July 1, 2019 - July 31, 2019 (8.3% of the year)**

<i>Expenditures</i>	FY 19/20 Budget	Encumbrances	Expenditures to date	Committed to date	Remaining Balance	Percent Committed
<b>Operating</b>						
Salaries & Benefits	\$10,258,600	\$6,404	\$618,237	\$624,641	\$9,633,959	6.1%
Services & Supplies	6,281,650	1,195,350	485,941	1,681,291	4,600,359	26.8%
Taxes	41,800	-	-	-	41,800	0.0%
Debt Service	4,593,900	-	3,670,988	3,670,988	922,913 (1)	79.9%
Intrafund Transfers	8,900,000	-	-	-	8,900,000	0.0%
<b>Total Operating:</b>	<b>\$30,075,950</b>	<b>\$1,201,754</b>	<b>\$4,775,165</b>	<b>\$5,976,920</b>	<b>\$24,099,030</b>	<b>(2) 19.9%</b>
<b>Capital</b>						
Bldgs/Improvements & Equip	\$39,047,000	\$7,586,404	\$65,177	\$7,651,581	\$31,395,419 (3)	19.6%
Intrafund Transfers	7,250,000	-	-	-	7,250,000	0.0%
<b>Total Capital :</b>	<b>\$46,297,000</b>	<b>\$7,586,404</b>	<b>\$65,177</b>	<b>\$7,651,581</b>	<b>\$38,645,419</b>	<b>16.5%</b>
<b>Grand Total Expenditures:</b>	<b>\$76,372,950</b>	<b>\$8,788,159</b>	<b>\$4,840,342</b>	<b>\$13,628,501</b>	<b>\$62,744,449</b>	<b>17.8%</b>
<i>Revenues</i>	FY 19/20 Budget	Encumbrances	Revenues to date	Revenues posted to date	Unposted Revenue	Percent Posted
<b>Operating</b>						
Use of Money/Property	\$578,000		\$0	\$0	\$578,000	0.0%
Charges for Services	31,213,500		4,870	4,870	31,208,630	0.0%
Miscellaneous Revenues	60,000		2,858	2,858	57,142	4.8%
Donations/Contributions (Capital Labor)	-		63,595	63,595	(63,595) (4)	N/A
<b>Total Operating:</b>	<b>\$31,851,500</b>		<b>\$71,323</b>	<b>\$71,323</b>	<b>\$31,780,177</b>	<b>0.2%</b>
<b>Capital</b>						
Use of Money/Property	\$0		\$0	\$0	\$0	N/A
Capacity Charges	5,178,000		21,365	21,365	5,156,635	0.4%
Bond/Loan Proceeds	15,416,600		-	-	15,416,600	0.0%
Sale of Assets	25,000		1,104	1,104	23,896	4.4%
Miscellaneous Revenues	5,000		-	-	5,000	0.0%
Intrafund Transfers	14,078,000		-	-	14,078,000	0.0%
<b>Total Capital:</b>	<b>\$34,702,600</b>		<b>\$22,469</b>	<b>\$22,469</b>	<b>\$34,680,131</b>	<b>0.1%</b>
<b>Grand Total Revenue:</b>	<b>\$66,554,100</b>		<b>\$93,792</b>	<b>\$93,792</b>	<b>\$66,460,308</b>	<b>0.1%</b>

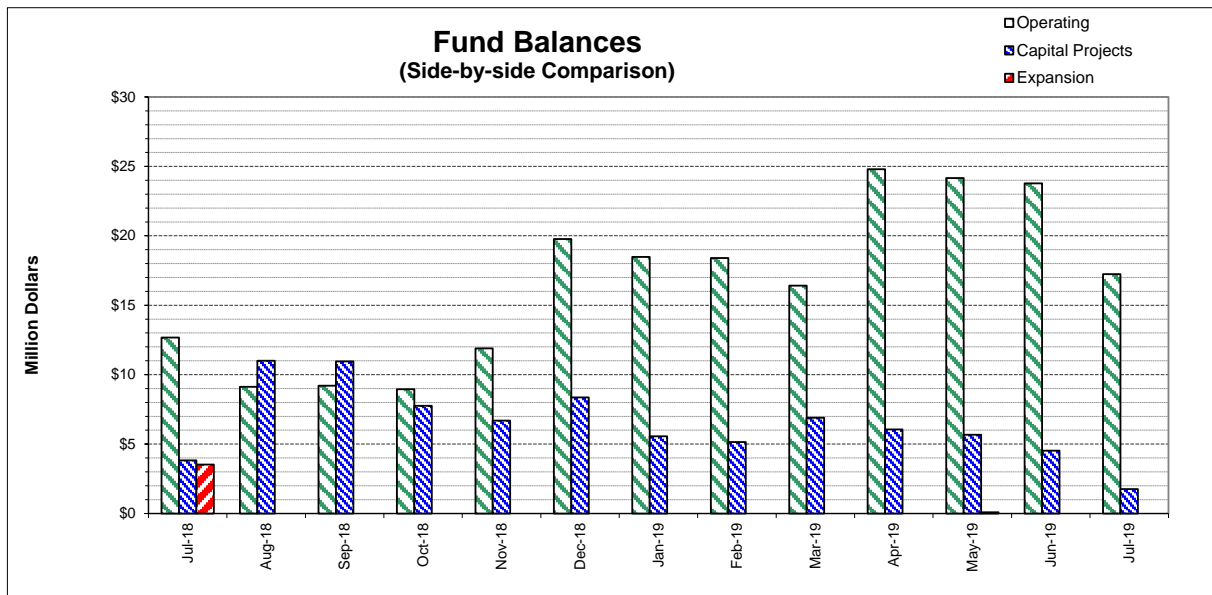
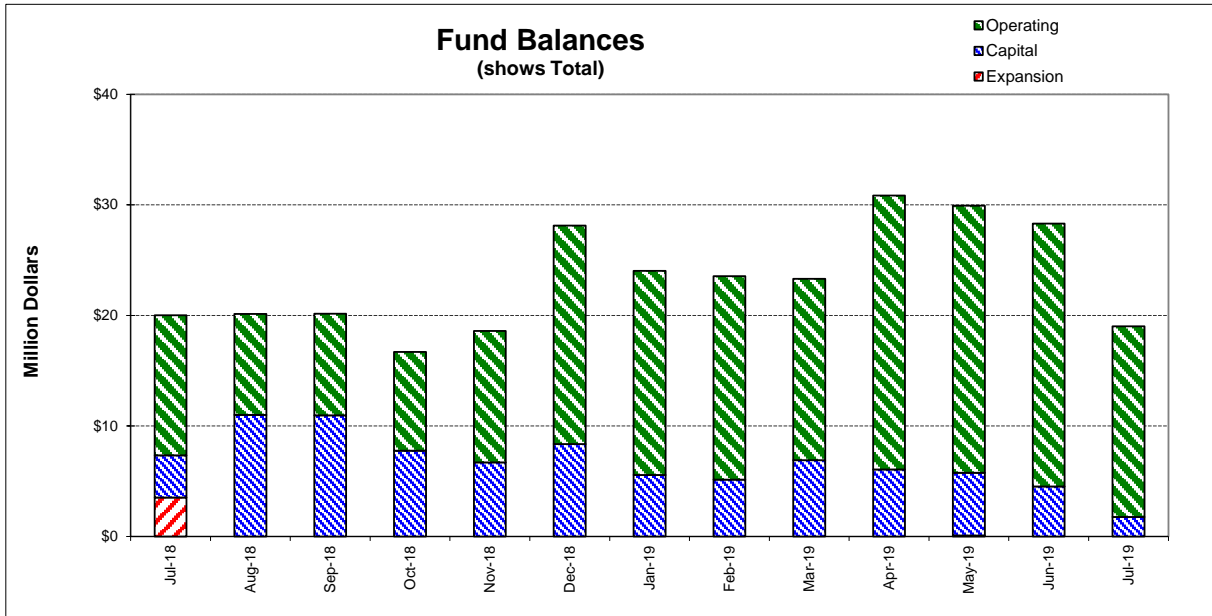
**Cash on Hand as of 7/31/19**

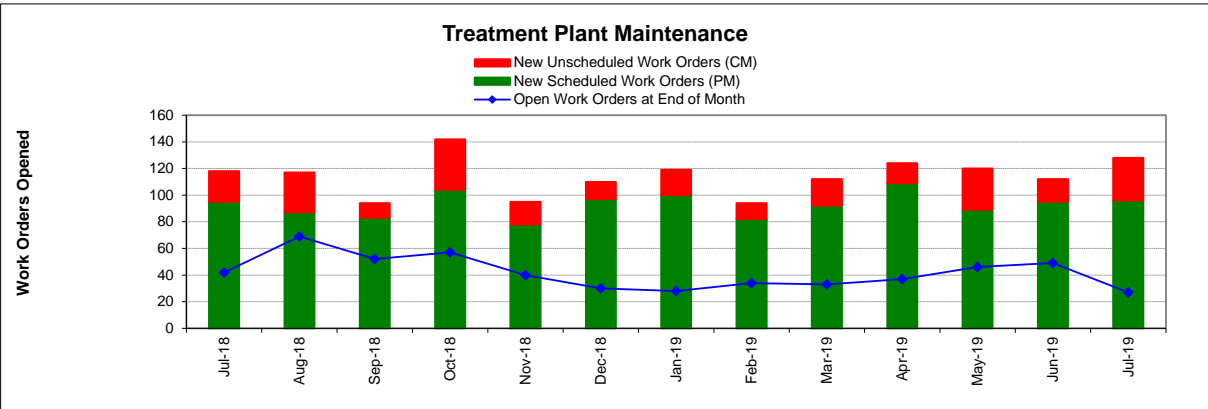
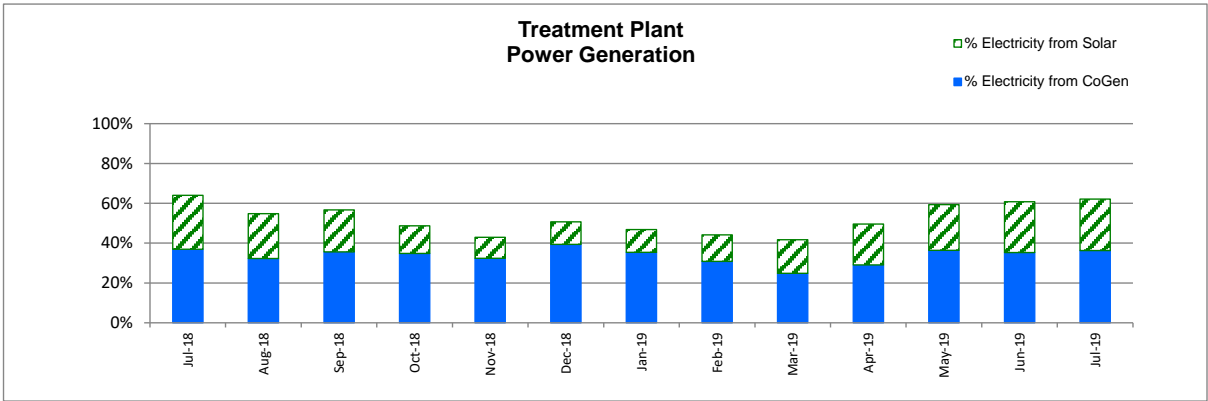
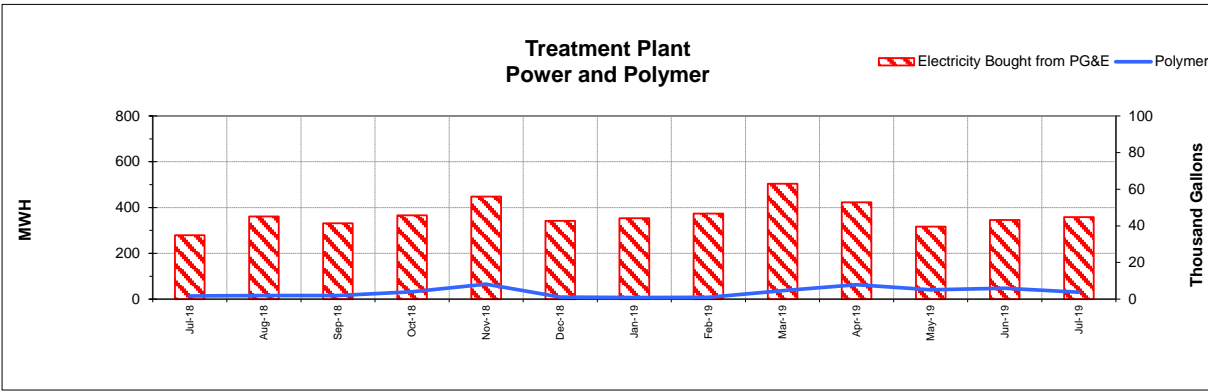
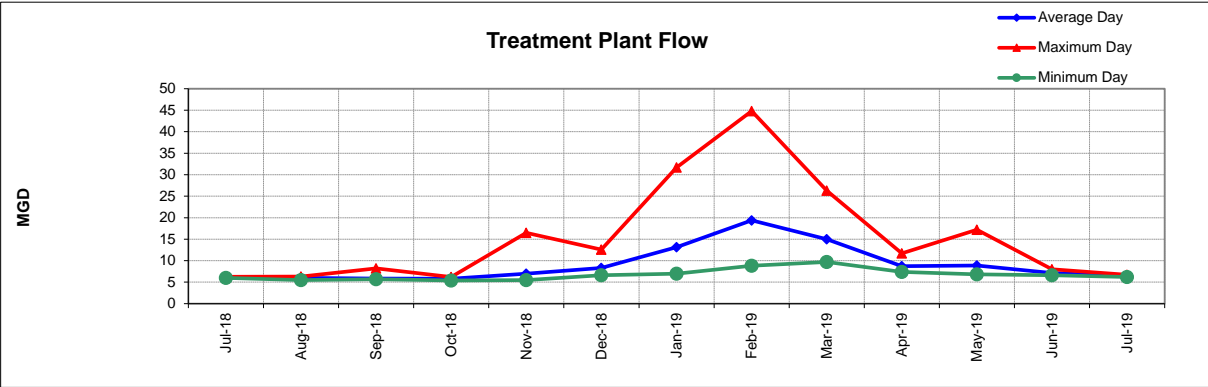
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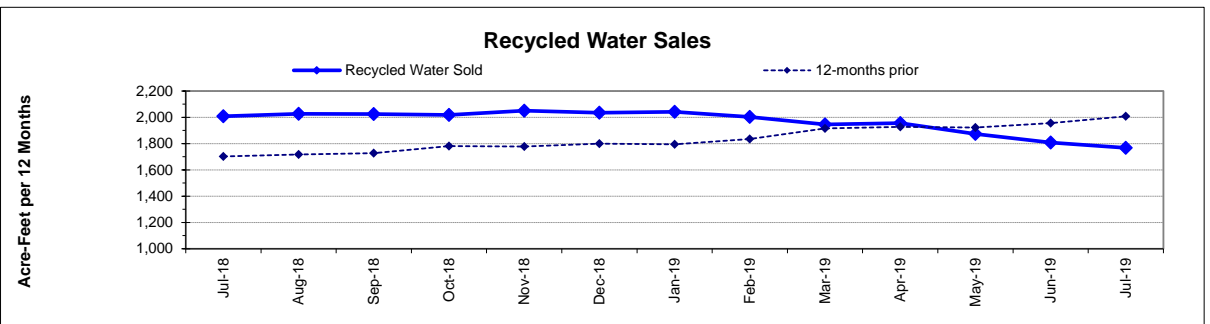
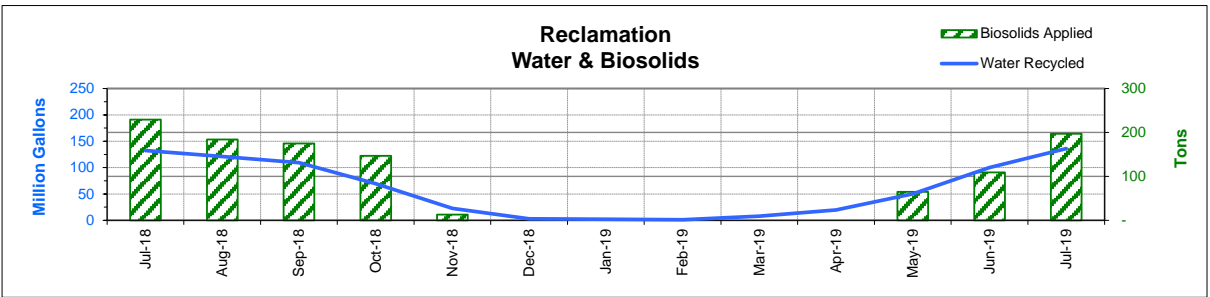
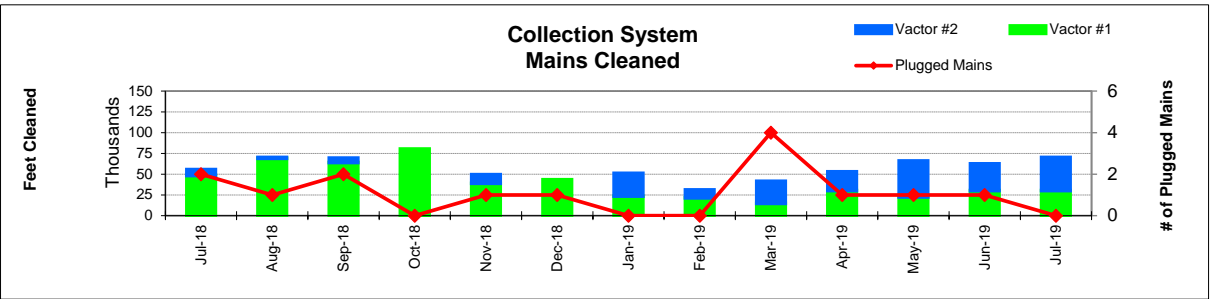
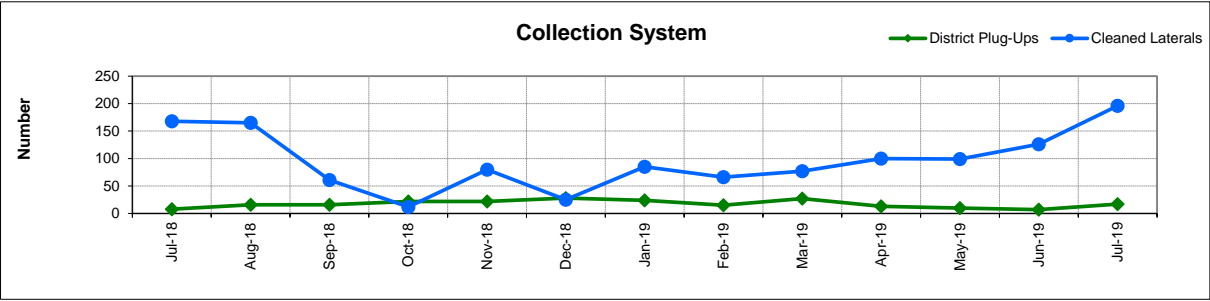
\*\*excluding Debt Service restricted funds

7/31/19 -Effective Rate of Return = 2.06%

1. Series 2012A's and 2017's principal/interest payments are made in Jul & Feb
2. Includes Debt Service and Intrafund Transfers; otherwise is 13.9%
3. See Capital Project Status report for details
4. In-house Labor for Capital Projects (Contra acct for Salaries)







**FUND BALANCES - MONTHLY**

<b>CATEGORY</b>	<b>Jul-18</b>	<b>Aug-18</b>	<b>Sep-18</b>	<b>Oct-18</b>	<b>Nov-18</b>	<b>Dec-18</b>	<b>Jan-19</b>	<b>Feb-19</b>	<b>Mar-19</b>	<b>Apr-19</b>	<b>May-19</b>	<b>Jun-19</b>	<b>Jul-19</b>
<i>(Thousand Dollars)</i>													
7800	12,676	9,123	9,204	8,951	11,888	19,772	18,473	18,394	16,405	24,793	24,164	23,784	17,246
7850	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Subtotal Operating</b>	<b>12,676</b>	<b>9,123</b>	<b>9,204</b>	<b>8,951</b>	<b>11,888</b>	<b>19,772</b>	<b>18,473</b>	<b>18,394</b>	<b>16,405</b>	<b>24,793</b>	<b>24,164</b>	<b>23,784</b>	<b>17,246</b>
Capital Improvement Projects	3,825	11,009	10,956	7,755	6,698	8,363	5,567	5153	6,899	6,058	5,671	4,525	1,764
Debt Proceeds	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Subtotal Capital</b>	<b>3,825</b>	<b>11,009</b>	<b>10,956</b>	<b>7,755</b>	<b>6,698</b>	<b>8,363</b>	<b>5,567</b>	<b>5,153</b>	<b>6,899</b>	<b>6,058</b>	<b>5,671</b>	<b>4,525</b>	<b>1,764</b>
<b>Total Discretionary Funds</b>	<b>16,501</b>	<b>20,132</b>	<b>20,160</b>	<b>16,706</b>	<b>18,586</b>	<b>28,135</b>	<b>24,040</b>	<b>23,547</b>	<b>23,304</b>	<b>30,851</b>	<b>29,835</b>	<b>28,309</b>	<b>19,010</b>
Expansion Fund (Restricted)	3,520	-	-	-	-	-	-	-	-	-	93	-	-
<b>Total Restricted Funds</b>	<b>3,520</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>93</b>	<b>-</b>	<b>-</b>
<b>TOTAL ALL FUNDS</b>	<b>20,021</b>	<b>20,132</b>	<b>20,160</b>	<b>16,706</b>	<b>18,586</b>	<b>28,135</b>	<b>24,040</b>	<b>23,547</b>	<b>23,304</b>	<b>30,851</b>	<b>29,928</b>	<b>28,309</b>	<b>19,010</b>

# DEVELOPMENT WORKLOAD - MONTHLY

CATEGORY	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19
<b><u>Phone Requests</u></b>													
Maps/Drawings	4	2	2	3	1	2	6	2	4	0	17	8	1
Lateral Permits	-	-	-	-	-	-	-	-	-	-	-	-	-
Policy Questions	9	10	4	6	3	6	8	7	5	5	10	6	8
Development Questions	61	63	28	70	41	44	40	35	48	53	79	64	43
Miscellaneous	37	24	26	20	18	25	27	18	25	29	29	18	25
<b>TOTAL</b>	<b>111</b>	<b>99</b>	<b>60</b>	<b>99</b>	<b>63</b>	<b>77</b>	<b>81</b>	<b>62</b>	<b>82</b>	<b>87</b>	<b>135</b>	<b>96</b>	<b>77</b>
<b><u>Counter Requests</u></b>													
Maps/Drawings	-	3	-	1	-	1	-	-	-	1	0	0	1
Lateral Permits	9	9	3	9	5	10	12	8	11	7	11	7	8
Policy Questions	2	3	-	2	-	1	-	-	3	4	0	0	0
Development Questions	12	9	5	6	6	5	10	9	13	10	7	10	3
Miscellaneous	2	2	2	0	-	1	1	-	-	0	2	0	0
<b>TOTAL</b>	<b>25</b>	<b>26</b>	<b>10</b>	<b>18</b>	<b>11</b>	<b>18</b>	<b>23</b>	<b>17</b>	<b>27</b>	<b>22</b>	<b>20</b>	<b>17</b>	<b>12</b>
<b><u>Initial Request (Referrals)</u></b>	13	17	16	21	20	15	18	14	16	24	20	9	14
<b><u>Connection Permits Issued</u></b>													
Residential Permits	5	16	9	1	1	2	-	4	5	2	6	3	2
Commercial Permits	5	5	1	-	2	-	1	-	1	2	3	1	6
Industrial Permits	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>TOTAL PERMITS</b>	<b>10</b>	<b>21</b>	<b>10</b>	<b>1</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>4</b>	<b>6</b>	<b>4</b>	<b>9</b>	<b>4</b>	<b>8</b>
Residential Units	5	16	18	1	1	2	-	4	36	2	6	3	6
Commercial Units	5	8	1	-	2	-	1	-	1	2	3	1	2
<b>TOTAL UNITS</b>	<b>10</b>	<b>24</b>	<b>19</b>	<b>1</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>4</b>	<b>37</b>	<b>4</b>	<b>9</b>	<b>4</b>	<b>8</b>
<b><u>Annexations</u></b>													
Submitted	1	1	1	-	1	-	1	-	-	-	1	-	1
Acreage	0.60	11.60	5.79	-	158.20	-	4.90	-	-	-	0.50	-	16.04
<b><u>Plans Reviewed</u></b>													
<b><u>Subdivisions/Sites</u></b>													
First Submittal	10	18	9	10	10	9	2	5	6	5	14	8	7
Second Submittal	5	8	4	5	2	5	7	5	6	3	8	6	5
Third Submittal	3	3	4	2	1	1	1	5	3	4	10	5	5
<b><u>Building/Tenant Improvements</u></b>													
First Submittal	10	8	8	11	8	11	5	8	7	15	3	9	12
Second Submittal	8	6	1	5	6	-	4	2	5	2	3	4	4
Third Submittal	5	4	3	1	3	1	1	2	3	7	-	7	6
<b><u>Miscellaneous Plan Reviews</u></b>	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>TOTAL PLANS REVIEWED</b>	<b>41</b>	<b>47</b>	<b>29</b>	<b>34</b>	<b>30</b>	<b>27</b>	<b>20</b>	<b>27</b>	<b>30</b>	<b>36</b>	<b>38</b>	<b>39</b>	<b>39</b>

# INSPECTION WORKLOAD - MONTHLY

CATEGORY	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19
<b><u>CONSTRUCTION</u></b>													
Locating Sewers	-	1	-	-	1	2	4	-	-	-	-	-	-
Permit Processing	-	-	-	-	-	-	-	-	-	-	-	-	-
Preconstruction Meetings	3	1	3	-	1	3	-	-	3	5	7	2	5
Inspections - Mains	2	6	11	1	-	1	-	1	1	-	-	1	5
Inspections - Manholes	-	6	76	76	21	30	49	75	19	18	6	7	13
Inspections - Laterals	7	13	3	8	3	28	18	23	31	21	8	27	40
Inspections - Cleanouts	3	2	2	6	8	37	31	39	39	46	43	24	59
Inspections - Review Video	1	-	2	-	1	2	-	2	2	1	1	1	-
Demo - Septic Tanks	-	-	-	-	-	-	-	-	-	-	-	-	-
Demo - Buildings	1	-	-	-	-	-	-	2	-	-	-	-	-
Update Record Drawings	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>17</b>	<b>29</b>	<b>97</b>	<b>91</b>	<b>35</b>	<b>103</b>	<b>102</b>	<b>142</b>	<b>95</b>	<b>91</b>	<b>65</b>	<b>62</b>	<b>122</b>
<b><u>MISCELLANEOUS</u></b>													
Meter Readings	-	-	-	-	1	10	26	4	-	4	14	-	-
Washdown Facility Inspections	-	-	-	-	-	-	-	-	-	-	-	-	-
General Customer Assistance	40	27	31	50	25	30	34	41	13	20	16	-	-
City of Napa Water Discharge	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>40</b>	<b>27</b>	<b>31</b>	<b>50</b>	<b>26</b>	<b>40</b>	<b>60</b>	<b>45</b>	<b>13</b>	<b>24</b>	<b>30</b>	<b>-</b>	<b>-</b>
<b><u>SPECIAL PROJECTS</u></b>													
	21	23	35	36	19	0	7	7	21	20	21	40	25

# POLLUTION PREVENTION WORKLOAD - MONTHLY

CATEGORY	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19
<b><u>Outreach Activities</u></b>													
Plant Tours Conducted	1	3	6	4	1	1	2	6	1	10	1	6	1
Presentations Made	1	0	2	10	0	0	1	0	2	3	1	2	0
<b>Total Outreach Activities</b>	2	3	8	14	1	1	3	6	3	13	2	8	1
<b><u>Inspections Conducted</u></b>													
Food Service Facilities	-	-	-	-	-	1	22	41	26	47	21	-	-
Auto Body & Car Wash	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	1	-	-	-	-	-	-	-	-
<b>Total Inspections</b>	-	-	-	-	1	1	22	41	26	47	21	-	-
<b><u>Compliance Issues</u></b>													
NOVs Issued	-	3	1	2	1	-	1	1	1	1	2	1	-
NOEs Issued	-	1	-	1	1	-	-	1	-	-	-	-	-
Non-Compliant-FOG	-	-	-	-	-	-	1	-	-	-	-	-	-
<b>Total Compliance Issues</b>	-	4	1	3	2	-	2	2	1	1	2	1	-
<b><u>Pollution Prevention</u></b>													
Clothes Washer Rebates	-	-	-	-	29	23	6	8	-	19	-	2	-
Toilet Retrofit Rebates	-	-	-	-	-	-	-	-	-	-	-	-	-
Pharmaceuticals Diverted (in lbs)	90	65	61	68	56	-	124	-	102	-	45	73	132

# RECYCLED WATER DELIVERIES - MONTHLY

	Acres	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19
<b>MONTHLY (MG)</b>														
<b>Water Sold</b>														
Golf Courses	405.0	64.047	57.269	44.197	23.612	3.322	0.008	0.002	-	0.014	9.555	25.976	58.629	69.590
Cemeteries	57.1	4.903	4.920	4.142	3.239	2.872	0.690	0.380	-	0.273	1.494	3.671	3.658	5.515
Parks	18.5	1.051	0.846	0.527	0.050	0.611	-	0.002	-	-	0.020	0.263	0.843	0.939
Schools	21.0	2.122	2.044	1.571	1.231	0.745	0.060	0.098	0.043	0.041	0.251	0.988	1.655	2.196
Commerical	167.6	15.863	19.184	16.950	19.637	7.652	1.891	1.379	0.557	0.648	4.974	10.516	12.142	18.578
Vineyards	564.0	43.468	32.727	21.248	9.649	7.015	0.239	0.380	0.513	7.149	3.250	6.107	10.475	20.951
Trucked Water	175.0	0.666	0.637	0.399	0.289	0.403	0.033	0.007	0.020	0.017	0.110	0.421	0.533	1.293
<b>Subtotal Sales</b>	<b>1,408.2</b>	<b>132.120</b>	<b>117.628</b>	<b>89.035</b>	<b>57.707</b>	<b>22.620</b>	<b>2.921</b>	<b>2.248</b>	<b>1.133</b>	<b>8.142</b>	<b>19.654</b>	<b>47.943</b>	<b>87.935</b>	<b>119.063</b>
<b>District Use</b>														
Jameson	330.0	-	0.163	4.785	-	-	-	-	-	-	-	-	-	-
Somky	213.0	0.208	3.226	15.447	12.002	0.008	-	-	-	-	-	2.504	11.985	17.012
Fagundes/Airport	50.5	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Subtotal District</b>	<b>593.5</b>	<b>0.208</b>	<b>3.389</b>	<b>20.232</b>	<b>12.002</b>	<b>0.008</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2.504</b>	<b>11.985</b>	<b>17.012</b>
<b>TOTAL DELIVERED</b>	<b>2,001.7</b>	<b>132.327</b>	<b>121.016</b>	<b>109.266</b>	<b>69.709</b>	<b>22.628</b>	<b>2.921</b>	<b>2.248</b>	<b>1.133</b>	<b>8.142</b>	<b>19.654</b>	<b>50.447</b>	<b>99.920</b>	<b>136.074</b>
<b>ANNUAL (AF)</b>														
<b>Water Sold</b>														
Golf Courses	405.0	1,067	1,063	1,035	1,025	1,019	1,000	1,000	981	972	991	909	880	897
Cemeteries	57.1	46	58	69	76	84	86	88	88	88	91	93	93	95
Parks	18.5	14	14	14	13	15	15	15	15	15	15	13	13	13
Schools	21.0	37	37	37	36	38	38	38	38	37	37	35	33	34
Commerical	167.6	298	303	309	327	337	338	343	339	335	341	343	342	350
Vineyards	564.0	534	540	550	529	545	545	546	531	485	470	470	436	367
Trucked Water	175.0	11	11	12	12	13	13	13	13	13	11	11	11	13
<b>Subtotal Sales</b>	<b>1,408.2</b>	<b>2,008</b>	<b>2,026</b>	<b>2,025</b>	<b>2,018</b>	<b>2,051</b>	<b>2,035</b>	<b>2,042</b>	<b>2,003</b>	<b>1,945</b>	<b>1,956</b>	<b>1,874</b>	<b>1,808</b>	<b>1,768</b>
<b>District Use</b>														
Jameson	330.0	121	64	15	15	15	15	15	15	15	15	15	15	15
Somky	213.0	210	178	166	171	171	171	171	171	171	171	143	139	191
Fagundes/Airport	50.5	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Subtotal District</b>	<b>593.5</b>	<b>330</b>	<b>243</b>	<b>182</b>	<b>187</b>	<b>187</b>	<b>187</b>	<b>187</b>	<b>187</b>	<b>187</b>	<b>187</b>	<b>158</b>	<b>154</b>	<b>206</b>
<b>TOTAL DELIVERED</b>	<b>2,001.7</b>	<b>2,338</b>	<b>2,269</b>	<b>2,207</b>	<b>2,205</b>	<b>2,237</b>	<b>2,222</b>	<b>2,229</b>	<b>2,189</b>	<b>2,132</b>	<b>2,143</b>	<b>2,032</b>	<b>1,962</b>	<b>1,974</b>

# BIOSOLIDS HANDLING - MONTHLY

Site	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19
<u>Land Applied by NSD</u>													
Somky			175								65	109	
Airport/Fagundes													
Jameson Canyon	229	184		147	13	-	-	-	-	-	-	-	197
Subtotal by NSD	229	184	175	147	13	-	-	-	-	-	65	109	197
<u>Land Applied by Contractor</u>													
Somky													
Airport/Fagundes													
Jameson Canyon													
Subtotal by Contractor	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Land Applied</b>	<b>229</b>	<b>184</b>	<b>175</b>	<b>147</b>	<b>13</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>65</b>	<b>109</b>	<b>197</b>
<b>Off Site (Contractor)</b>													
<b>Total (tons)</b>	<b>229</b>	<b>184</b>	<b>175</b>	<b>147</b>	<b>13</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>65</b>	<b>109</b>	<b>197</b>

**COLLECTION SYSTEM MAINTENANCE - MONTHLY**

<b>CATEGORY</b>	<b>Jul-18</b>	<b>Aug-18</b>	<b>Sep-18</b>	<b>Oct-18</b>	<b>Nov-18</b>	<b>Dec-18</b>	<b>Jan-19</b>	<b>Feb-19</b>	<b>Mar-19</b>	<b>Apr-19</b>	<b>May-19</b>	<b>Jun-19</b>	<b>Jul-19</b>
<b><u>Plugups</u></b>													
<b>Total Calls</b>	37	39	53	57	64	77	70	43	46	43	46	40	45
Business Hours	24	28	32	36	34	44	47	39	21	23	28	31	33
After Hours	9	11	21	21	30	33	23	4	25	20	18	9	12
District's	8	16	16	22	22	28	24	15	27	13	10	7	17
Property Owner's	29	23	36	35	41	49	46	28	20	30	35	32	26
Plugged Main Lines	2	1	2	-	1	1	-	-	4	1	1	1	-
Run Lateral w/Eel	168	165	61	12	80	25	85	66	77	100	99	126	196
<b><u>Cleaning (feet of sewer)</u></b>													
Vactor #1	48,278	69,132	63,968	80,207	38,882	43,194	23,544	21,454	14,808	30,224	22,498	30,232	30,283
Vactor #2	7,290	1,072	5,367	-	10,373	-	27,335	9,420	26,687	22,691	43,466	32,180	39,800
Hydro													
Rodder													
<b>Total (feet)</b>	<b>55,568</b>	<b>70,204</b>	<b>69,335</b>	<b>80,207</b>	<b>49,254</b>	<b>43,194</b>	<b>50,879</b>	<b>30,875</b>	<b>41,495</b>	<b>52,916</b>	<b>65,964</b>	<b>62,412</b>	<b>70,083</b>
<b><u>Cleaning Days</u></b>													
Vactor #1	16	21	19	22	17	19	13	10	6	13	10	12	12
Vactor #2	3	1	3	-	3		7	6	15	8	19	15	16
Hydro													
Rodder													
<b><u>Feet/day</u></b>													
Vactor #1	3,000	3,300	3,350	3,650	2,300	2,250	1,800	2,150	2,450	2,300	2,250	2,500	2,500
Vactor #2	2,450	1,050	1,800		3,450		3,900	1,550	1,800	2,850	2,300	2,150	2,500
Hydro													
Rodder													
<b><u>Video Inspections</u></b>													
Mains (feet)	18,188	27,761	18,443	31,889	17,526	12,509	14,335	5,812	13,050	15,089	24,716	23,914	32,551
Laterals (each)	266	234	232	297	201	138	175	133	144	204	173	177	254
<b><u>Construction (each)</u></b>													
Cleanouts	27	25	6	5	50	1	18	3	17	15	12	24	15
Laterals	9	8	8	4	4	15	6	3	3	4	13	12	14
Mains				1		-	-		1				-
Manholes		2	1	1		-	-		1				-
Other													
<b><u>USA Markings</u></b>													
Regular (w/in 2 days)	397	296	286	378	159	159	171	224	338	327	338	292	378
Emergency (w/in 2 hours)	8	12	15	15	32	12	24	15	22	20	20	24	21

## WASTEWATER PLANT OPERATIONS DATA - MONTHLY

CATEGORY	Units	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19
<b> FLOWS</b>		<b>31</b>	<b>31</b>	<b>30</b>	<b>31</b>	<b>30</b>	<b>31</b>	<b>31</b>	<b>28</b>	<b>31</b>	<b>30</b>	<b>31</b>	<b>30</b>	<b>31</b>
<b>Influent</b>	<b>MG</b>	<b>189.8</b>	<b>186.1</b>	<b>176.1</b>	<b>180.0</b>	<b>208.8</b>	<b>257.6</b>	<b>407.2</b>	<b>542.7</b>	<b>465.3</b>	<b>261.4</b>	<b>275.4</b>	<b>213.6</b>	<b>199.3</b>
<b>Average Day</b>	<b>MGD</b>	<b>6.1</b>	<b>6.0</b>	<b>5.9</b>	<b>5.8</b>	<b>7.0</b>	<b>8.3</b>	<b>13.1</b>	<b>19.4</b>	<b>15.0</b>	<b>8.7</b>	<b>8.9</b>	<b>7.1</b>	<b>6.4</b>
Maximum Day	Date	1-Jul	19-Aug	16-Sep	2-Oct	29-Nov	1-Dec	17-Jan	14-Feb	6-Mar	1-Apr	19-May	1-Jun	2-Jul
Maximum Day Flow	MG	6.3	6.3	8.2	6.2	16.5	12.6	31.7	44.8	26.3	11.7	17.2	8.0	6.7
Minimum Day	Date	6-Jul	22-Aug	21-Sep	31-Oct	1-Nov	13-Dec	3-Jan	1-Feb	19-Mar	30-Apr	14-May	27-Jun	24-Jul
Minimum Day Flow	MG	6.0	5.5	5.7	5.4	5.5	6.6	7.0	8.8	9.7	7.4	6.8	6.6	6.2
<b>Effluent</b>	<b>MG</b>	<b>133.0</b>	<b>124.4</b>	<b>104.7</b>	<b>68.1</b>	<b>289.9</b>	<b>384.2</b>	<b>497.1</b>	<b>507.1</b>	<b>618.1</b>	<b>455.7</b>	<b>55.5</b>	<b>108.7</b>	<b>128.8</b>
River Discharge	MG	-	-	-	-	263.8	378.9	491.6	507.1	618.1	424.4	-	-	-
Recycled Flow	MG	133.0	124.4	104.7	68.1	26.1	5.2	5.5	-	8.5	25.4	55.5	108.7	128.8
<b>BIOSOLIDS</b>	<b>Tons</b>	<b>798</b>	<b>775</b>	<b>943</b>	<b>745</b>	<b>572</b>	<b>767</b>	<b>700</b>	<b>451</b>	<b>413</b>	<b>575</b>	<b>493</b>	<b>506</b>	<b>624</b>
Wet Tons Generated from Pond	Tons													
Wet Tons Generated from Plant	Tons	798	775	943	745	572	767	700	451	413	575	493	506	624
% Solids Liquid	%													
% Solids Cake	%													
% Solids Land Application	%													
<b>Wet Tons Hauled Offsite</b>	<b>Tons</b>													
<b> POLYMER USE</b>	<b>Gallons</b>	<b>1,732</b>	<b>1,936</b>	<b>1,915</b>	<b>4,044</b>	<b>8,169</b>	<b>1,155</b>	<b>868</b>	<b>1,046</b>	<b>4,557</b>	<b>7,851</b>	<b>5,053</b>	<b>5,921</b>	<b>3,745</b>
Pond Pre-Flocculators	Gallons	-	-	-	59	2,293	-	-	-	2,668	4,704	288	224	494
Flocculator Polymer 1	Gallons	-	-	-	-	-	-	-	-	-	-	-	-	-
Flocculator Polymer 2	Gallons	-	-	-	34	784	294	-	-	974	755	79	-	119
Filter Polymer 1	Gallons	824	1,361	1,259	2,944	4,503		178	404	460	1,584	4,100	5,102	2,499
Filter Polymer 2	Gallons	-	-	-	-	-		-	-	-	-	-	-	-
Belt Presses	Gallons	908	575	656	1,007	589	788	690	642	455	808	586	595	633
<b>ENERGY</b>														
<b>Total Electricity Used</b>	<b>MWH</b>	<b>775</b>	<b>798</b>	<b>765</b>	<b>714</b>	<b>785</b>	<b>684</b>	<b>663</b>	<b>670</b>	<b>864</b>	<b>840</b>	<b>779</b>	<b>827</b>	<b>842</b>
Purchased from PGE	MWH	279	361	331	366	448	342	353	374	504	423	317	346	358
Produced from Co-Gen	MWH	286	258	272	249	254	265	235	207	215	244	284	270	267
Percent Produced	%	37%	32%	36%	35%	32%	39%	35%	31%	25%	29%	36%	35%	36%
Purchased from Solar	MWH	210	179	162	99	83	77	75	89	145	173	178	211	217
Percent Produced		27%	22%	21%	14%	11%	11%	11%	13%	17%	21%	23%	25%	26%
Purchased Natural Gas	Therms	1,065	1,237	1,124	1,461	1,912	1,560	2,147	1,789	2,299	1,558	1,475	1,448	1,727
Methane Flared Off	KSCF	344	259	391	507	192	266	34	7	14	130	164	324	282
<b>Stand By Calls</b>	<b>#</b>	<b>57</b>	<b>71</b>	<b>40</b>	<b>75</b>	<b>133</b>	<b>55</b>	<b>71</b>	<b>75</b>	<b>52</b>	<b>26</b>	<b>80</b>	<b>67</b>	<b>64</b>
<b>Violations</b>	<b>#</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

# WASTEWATER PLANT MAINTENANCE and LABORATORY DATA - MONTHLY

CATEGORY	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19
<b><u>Scheduled</u></b>													
Old	9	13	31	20	21	10	6	5	11	10	15	25	31
New	95	87	83	104	78	97	100	82	92	109	89	95	96
Completed	91	69	94	103	89	101	101	76	93	104	79	89	120
<b>New Balance</b>	<b>13</b>	<b>31</b>	<b>20</b>	<b>21</b>	<b>10</b>	<b>6</b>	<b>5</b>	<b>11</b>	<b>10</b>	<b>15</b>	<b>25</b>	<b>31</b>	<b>7</b>
<b><u>Unscheduled</u></b>													
Old	27	29	38	32	36	30	24	23	23	23	22	21	18
New	23	30	11	38	17	13	19	12	20	15	31	17	32
Completed	21	21	17	34	23	19	20	12	20	16	32	20	30
<b>New Balance</b>	<b>29</b>	<b>38</b>	<b>32</b>	<b>36</b>	<b>30</b>	<b>24</b>	<b>23</b>	<b>23</b>	<b>23</b>	<b>22</b>	<b>21</b>	<b>18</b>	<b>20</b>
<b><u>Total Work Orders</u></b>													
Old	36	42	69	52	57	40	30	28	34	33	120	46	49
New	118	117	94	142	95	110	119	94	112	124	11	112	128
Completed	112	90	111	137	112	120	120	88	112	120	46	109	150
<b>New Balance</b>	<b>42</b>	<b>69</b>	<b>52</b>	<b>57</b>	<b>40</b>	<b>30</b>	<b>28</b>	<b>34</b>	<b>33</b>	<b>37</b>	<b>46</b>	<b>49</b>	<b>27</b>
<b><u>LAB ANALYSES</u></b>													
<b>Sample Type</b>													
Regulatory	139	182	132	129	195	175	169	117	164	155	190	138	129
Process Control	917	890	926	486	1,154	1,087	1,155	1,111	1,199	1,195	760	770	869
Special Request	2	-	-	13	-	2	-	8	2	-	1	15	1
Quality Control/Assurance	483	622	401	328	1,128	705	776	639	754	1,447	812	539	632
<b>TOTAL</b>	<b>1,541</b>	<b>1,694</b>	<b>1,459</b>	<b>956</b>	<b>2,477</b>	<b>1,969</b>	<b>2,100</b>	<b>1,875</b>	<b>2,119</b>	<b>2,797</b>	<b>1,763</b>	<b>1,462</b>	<b>1,631</b>

**Summary of NSD Capital Project Status  
through 07-31-19**

Proj #	Description	FY 19/20 Budget	FY 18/19 Carryovers	Adj.	Final FY 19/20 Budget	Encumbrance	Costs Paid to Date	Budget Remaining	% Budget Expended
	<b><u>COLLECTION SYSTEM - PROJECTS</u></b>								
13701	Main Line Sewer Rehabilitation	60,000			60,000	-	-	60,000	-
13702	Manhole Raising/Rehabilitation	332,600			332,600	-	298	332,302	0%
13703	Lateral Replacement/Rehabilitation	110,000			110,000	-	6,289	103,711	6%
13704	Cleanouts Installation/Rehabilitation	107,000			107,000	-	5,705	101,295	5%
13705	Inflow & Infiltration (I&I) Reduction Program	221,700			221,700	101,751	144	119,804	0%
14703	Browns Valley Rd & First St	7,000,000			7,000,000	-	1,492	6,998,508	0%
17704	Infltrtn Rehab - SSMH/PL (CI-)	-	25,500		25,500	-	-	25,500	-
18701	I&I Smoke Testing	150,000			150,000	-	-	150,000	-
18702	Collection System Asset Management Software	-	443,550		443,550	341,839	5,354	96,357	1%
18703	Upper Lateral Rehab - Basin L (Pilot) #3	166,300	3,200		169,500	-	1,228	168,272	1%
18706	Sewer System Inflow/Infiltration 2019	3,538,100	313,850		3,851,950	2,500,000	11,034	1,340,916	0%
19701	66-inch Trunk Rehabilitation (Kaiser to IPS)	4,000,000	450,000		4,450,000	439,233	388	4,010,380	0%
19703	2020 Collection System Rehabilitation	3,169,600	9,800		3,179,400	-	4,735	3,174,665	0%
19727	Collection System Master Plan	1,071,200	632,350		1,703,550	510,671	2,288	1,190,591	0%
20701	Upper Lateral Rehab - Pilot #5	5,000			5,000	-	50	4,950	1%
20702	Manhole Rehabilitation	250,000			250,000	-	-	250,000	-
20703	2021 Collection System Rehabilitation	20,000			20,000	-	-	20,000	-
	<b><u>COLLECTION SYSTEM - EQUIPMENT</u></b>								
20704	Locatable Mini-Camera #3 Replacement	11,900			11,900	-	-	11,900	-
20705	Eel Replacement #2	5,900			5,900	-	-	5,900	-
	<b><u>COLLECTION SYSTEM - LIFT STATIONS</u></b>								
17711	West Napa PS - Rehab	5,500,000			5,500,000	233,922	694	5,265,384	0%
19705	Stonecrest PS Pump Rebuild	-	40,100		40,100	25,106	-	14,994	-
	<b><u>TREATMENT - PROJECTS</u></b>								
13745	Pond 1 Dredge	2,100,000	237,150		2,337,150	-	426	2,336,724	0%
18736	Treatment Plant Project 2018	-	15,000		15,000	10,901	-	4,100	-
18740	Treatment Plant Project 2019	600,000	672,700		1,272,700	1,167,303	860	104,538	0%
19717	WWTP MP - Pond Transfer Structures 2 to 3	-	259,700		259,700	10,592	948	248,160	0%
20706	WWTP Master Plan	5,000			5,000	-	-	5,000	-
20707	Pond Levee Repair	100,000			100,000	-	-	100,000	-
20708	2020 Treatment Plant Improvements Project	1,500,000			1,500,000	99,650	-	1,400,350	-

**Summary of NSD Capital Project Status  
through 07-31-19**

Proj #	Description	FY 19/20 Budget	FY 18/19 Carryovers	Adj.	Final FY 19/20 Budget	Encumbrance	Costs Paid to Date	Budget Remaining	% Budget Expended
	<b><u>TREATMENT - EQUIPMENT</u></b>								
13735	Dual Fuel Boiler Burner	-	121,550		121,550	98,723	-	22,828	-
15707	Main - DAFT Overflow Pumps (2) Cornell	11,900			11,900	-	-	11,900	-
15711	Rotork Actuator Replacement	-	7,600		7,600	-	-	7,600	-
16712	Main - Primary Clarifier Mech/Struct Rehabilitation	814,000	152,300		966,300	150,935	-	815,365	-
17715	Turbidimeters (7) Tertiary Rplcmnts	-	16,000		16,000	-	-	16,000	-
17726	Headworks Equipment Rehab/Replacment	1,000,000	667,600		1,667,600	1,491,525	860	175,216	0%
18711	3W Strainer	-	24,350		24,350	-	-	24,350	-
18715	Muffle Furnace - Replacement	-	5,000		5,000	4,317	-	683	-
18716	Rotork Actuator Replacement	-	6,400		6,400	6,399	-	1	-
18719	Filter Flow Control - Rotork Valves	-	9,900		9,900	6,969	-	2,931	-
18720	Neuros Blowers Rebuild	-	64,300		64,300	-	-	64,300	-
18722	FOG Station Water Heater	20,000	5,000		25,000	-	-	25,000	-
19706	WWTP MP - 3W System Improvements Phase 2	-	295,600		295,600	-	-	295,600	-
19708	Main - Rotork Actuator Replacement	-	95,000		95,000	-	-	95,000	-
19709	Main - Polymer Tank (3) Replacement	-	10,000		10,000	-	-	10,000	-
19710	Main - 12kV Redundant Line	-	119,150		119,150	-	-	119,150	-
19712	Main - Utility Generator Power Transition	-	35,000		35,000	-	-	35,000	-
19713	Main - Cogen Hot Water to FOG Pad	-	50,000		50,000	-	-	50,000	-
19715	Main - ARV Replacement	31,100			31,100	-	-	31,100	-
20709	Main - AB Caustic Pumps & Enclosure	85,700			85,700	-	-	85,700	-
20710	Main - Septage Pump & Motor Replacement	28,700			28,700	-	-	28,700	-
20711	Main - Marsh-to-Pond Pump Station Upgrade	88,700			88,700	-	-	88,700	-
20712	Main - Grit Pump Rebuild	60,000			60,000	-	-	60,000	-
20713	Main - Elevator Control Update	400,000			400,000	-	-	400,000	-
20714	Main - Flare Rebuild	50,000			50,000	-	-	50,000	-
20715	Main - Concrete Pipe Chase Covers	80,000			80,000	-	-	80,000	-
20716	Plant Door Replacement - Phase 1	22,200			22,200	-	-	22,200	-
20717	Vehicle 163 - Ford Ranger (Replace w/ F-150)	33,300			33,300	-	-	33,300	-
20718	Vehicle 162 - Ford F-250 Diesel	43,600			43,600	41,122	-	2,478	-
20719	Vehicle 206 - Forklift TH103 (Telehandler)	103,100			103,100	-	-	103,100	-
	<b><u>LAB - EQUIPMENT</u></b>								
20720	Lab - Sampler 4700 Replacement (2)	20,000			20,000	-	-	20,000	-
	<b><u>SCADA</u></b>								

**Summary of NSD Capital Project Status  
through 07-31-19**

<b>Proj #</b>	<b>Description</b>	<b>FY 19/20 Budget</b>	<b>FY 18/19 Carryovers</b>	<b>Adj.</b>	<b>Final FY 19/20 Budget</b>	<b>Encumbrance</b>	<b>Costs Paid to Date</b>	<b>Budget Remaining</b>	<b>% Budget Expended</b>
18729	SCADA MP Project #1 - Network Monitoring	-	46,200		46,200	-	-	46,200	-
19718	SCADA MP Phase 5 Security Study	-	88,250		88,250	36,477	187	51,586	0%
	<b><u>RECYCLING - PROJECTS</u></b>								
13727	North Bay Wate Reuse Project	150,000			150,000	-	-	150,000	-
18730	Jameson 24" Flow Meter Rehab	-	6,200		6,200	-	-	6,200	-
18731	Coombsville Truck Fill Station	300,000	144,400		444,400	308,974	646	134,780	0%
19719	24-inch Valve Replacement - Kirkland Line	-	5,000		5,000	-	-	5,000	-
19720	Jameson PS VFD	-	68,900		68,900	-	-	68,900	-
20721	Kirkland Recycled Water Pipeline Rehabilitaton	60,000			60,000	-	139	59,862	0%
	<b><u>RECYCLING - EQUIPMENT</u></b>								
19722	Vehicle 723/720 - Attachments/Implements	29,700		(29,700)	-	-	-	-	-
20722	Badger Meter Replacement	80,000			80,000	-	-	80,000	-
20723	CT-5 Composter (Ag-Bag)	-	-	29,700	29,700	-	-	29,700	-
	<b><u>OTHER</u></b>							-	-
13729	Development Technical Support	337,000			337,000	-	19,880	317,120	6%
19723	AV System Replacement - Conference Rooms	-	20,000		20,000	-	-	20,000	-
19725	Vehicle 011 - CSET Trailer	-	7,100		7,100	-	1,582	5,518	22%
		<b>\$33,873,300</b>	<b>\$5,173,700</b>	<b>-</b>	<b>\$39,047,000</b>	<b>\$7,586,404</b>	<b>\$65,227</b>	<b>\$31,395,369</b>	<b>0%</b>