



**Napa Sanitation District**

**General Manager's Report**

**for**

**November 2020**

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## NAPA SANITATION DISTRICT

## General Manager's Report

**DATE:** January 6, 2021

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

**SUBJECT:** General Manager's Report for November 2020

### **REGULATORY COMPLIANCE:**

Collection System Compliance:	0 Category 1 SSO's, 0 Category 2 SSO's, and 4 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, 2020 – November 30, 2020
Percent Fiscal Year:	41.7%
Operating Expenditures to date:	36.2%
Historical Expenditures to date:	43.7%
Significant Comments:	None

### **PERSONNEL:**

Significant events for the month of November 2020 in the Human Resources Department:

New Hires:	None
Separations:	None
Promotions:	None
Recruitment Activities:	None
Injuries:	None

### **COLLECTIONS:**

Significant events for the month of November 2020 in Collection System Maintenance include:

- The District had 0 Category 1 Sanitary Sewer Overflows (SSO's), 0 Category 2 SSO's and 4 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 9 cleanouts and repaired 3 cleanouts. They also repaired 3 laterals and lined 6 laterals. The repair crew also installed 3 main line spot liners. Additionally, the service response/programs crew completed 90 work orders in support of the grease and odor control program, responded to 56 customer requests for service (18 were NSD problem) and closed out 259 mark and locate request tickets.
- The preventative maintenance crews ran work orders on 120 laterals, cleaned approximately 48,324.6 feet of main line and CCTV inspected 28 laterals. In addition, the CCTV truck televised 28,717 feet of mainline.

### **TREATMENT PLANT:**

Significant events for the month of November 2020 in the Treatment Plant Department:

#### **Plant Operations:**

- For November 2020, the plant's influent flow was 162.6 MG as compared to last year flow for November 2019 of 177.6 MG
- There was 0.47" rainfall for November 2020 (Carneros Rainfall Center) as compared to 0.98" rainfall for November 2019.
- Pond 4 end of the month recorded level reading was 44.90".

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

- November power purchased from PG&E was 338 MWH in comparison to November 2019 purchase of 433 MWH.
- Cogeneration unit ran 703 of 720 hours for the month – 97.64% uptime, averaging 302.00 Kw, producing 212 MWH of energy
- Solar generation in November was 103 MWH, compared to 119 MWH in October and 198 MWH in November 2019.

### **Maintenance:**

Significant events for the month of November 2020:

#### **Process Maintenance**

- Cogeneration unit monthly emission test - in compliance with BAAQMD permit
- FOG transfer pump VFD/replaced cooling fan
- Primary clarifier's/replaced hazardous gas sample tubing
- Secondary Pump #1 and #2 motors/replaced bearings with ceramic
- ATI Sulfite residual analyzer dehumidifier/replaced Peltier cooling device

### Projects

- Installed new gear pumps for SBS #3 and #4
- Received annual elevator certifications

### Standby Power

- Plant generators ran in standby mode for 12 hours and 45 minutes due to PG&E pole failure
- Riverpark, Stonecrest and West Napa operational testing only

### Influent Pumps

- All pumps operational

### Laboratory:

#### **Effluent (EFF-001) Summary**

Monthly Effluent monitoring of all parameters occurred at the required frequencies. There were no reported violations. The following were notable sampling events:

- November 4, 2020: Mercury, Metals, Cyanide, Nutrients, PCB Congeners
- November 3-7, 2020: Acute Toxicity Bioassay
- November 10, 2020: Chronic Toxicity Bioassay, Oil & Grease, Nutrients

#### **Influent (INF-001) Summary**

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

- November 4, 2020: Metals, Mercury, Cyanide, Nutrients

### **RECYCLING:**

Significant events in the Recycling Department for November 2020 include:

- Recycled water delivered for the month of November 2020 was (42.861 million gallons), as compared to November 2019 (44.624 million gallons) is lower from the previous year due to district irrigation. Delivered recycled water volume represents the sum of all use site flow meter consumption values.
- Staff continued land application of biosolids at the Fagundes Reuse site.
- Staff approved the connection of two recycled water services. One in the LCWD area and one in the MST area.

### **POLLUTION PREVENTION:**

Significant events in the Pollution Prevention and Outreach Division for November 2020 include:

- Outreach continues to residents regarding the Summer 2020 Collection System Rehabilitation Project. Email and text notifications were sent to all residents on the project mailing list. Bi-weekly website updates were also made to alert residents to construction project updates.
- Staff continued to conduct outreach regarding the Browns Valley Trunk Project. Weekly email and text updates as well as weekly website updates were conducted to keep residents up to date regarding construction activities. Staff also worked with City of Napa staff to share construction locations and our updates were shared in the City of Napa e-newsletter and on social media.
- Staff completed the Popular Annual Financial Report (PAFR), which was presented to the Board on December 16th.
- Staff began working with Katz & Associates to plan and begin conducting outreach regarding the rate study and upcoming Prop 218 process.
- NapaSan continues to promote the safe medication disposal program. The total amount of unneeded medications collected since the drug takeback program began in September 2010 is 25,784.2 pounds.

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

Significant events occurring in the Engineering Division for November 2020 include:

- Consultants and staff continued work on the CMMS implementation.
- Contractor continued construction of the Browns Valley Trunk Project.
- Contractor continued construction of the West Napa Pump Station Project.
- Contractor continued construction of the 2020 Collection System Rehabilitation Project.
- Staff received and opened bids for the 2021 Collection System Rehabilitation Project.
- Consultant completed design and staff issued Notice Inviting Bids for the 66-inch Trunk Sewer Rehabilitation Project.
- Consultant continued design of the Pond Levee Maintenance Project
- Contractor began construction of the Sanitary Sewer Manhole Adjustment Project, Phase X
- Consultant continued design of the 2021 Treatment Plant Improvements Project
- Contractor continued construction of the Primary Clarifier and DAF Clarifier Rehabilitation Project.
- Consultant continued working on the Collection System Master Plan.

- Consultant continued working on the Wastewater Treatment Plant Master Plan.
- Staff reviewed 33 sets of development plans and deemed 11 sets of plans complete. The approved plans consisted of 6 residential dwellings, 0 public laterals, 2 tenant improvements, 2 commercial buildings, and 1 recycled water lateral.

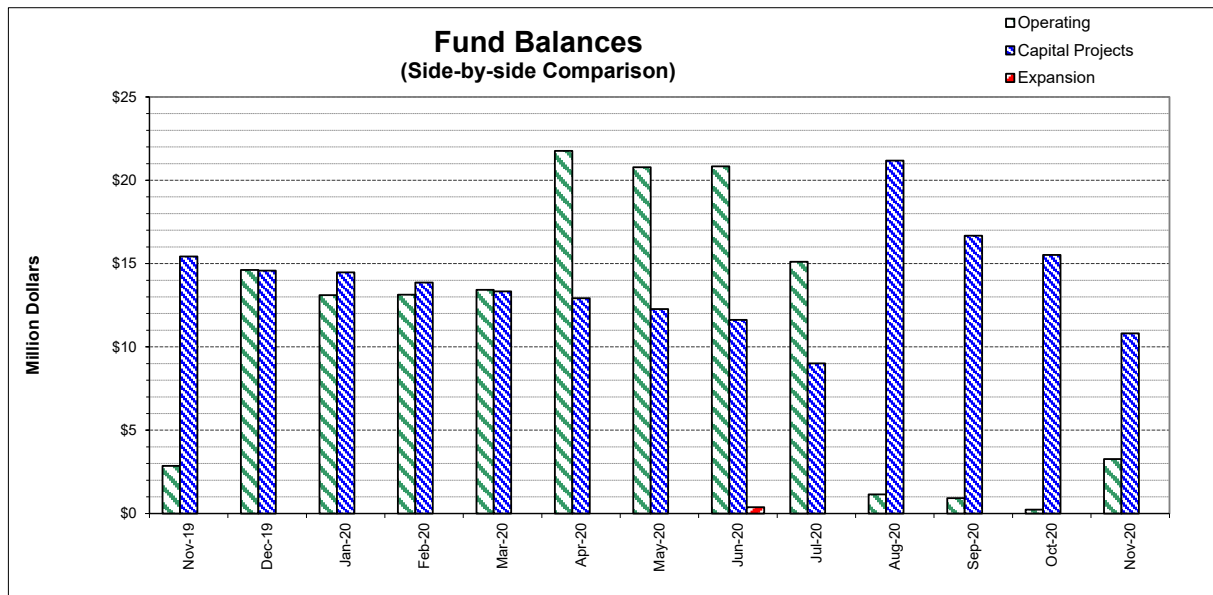
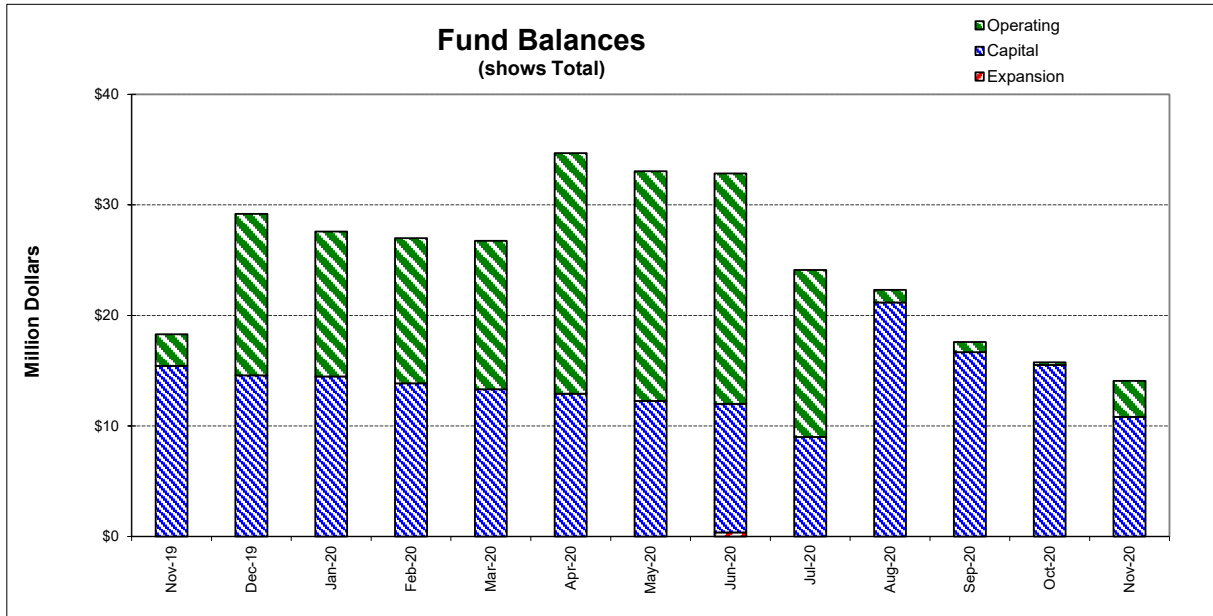
**Budget Status & Cash Summary - July 1, 2020 - November 30, 2020 (41.7% of the year)**

<i>Expenditures</i>	FY 20/21 Budget	Encumbrances	Expenditures to date	Committed to date	Remaining Balance	Percent Committed
<b>Operating</b>						
Salaries & Benefits	\$9,590,300	\$7,100	\$3,469,855	\$3,476,955	\$6,113,345	36.3%
Services & Supplies	6,428,900	1,336,494	2,178,392	3,514,886	2,914,014	54.7%
Taxes	42,400	-	-	-	42,400	0.0%
Debt Service	4,588,000	-	3,728,888	3,728,888	859,113 (1)	81.3%
Intrafund Transfers	9,000,000	-	-	-	9,000,000	0.0%
<b>Total Operating:</b>	<b>\$29,649,600</b>	<b>\$1,343,593</b>	<b>\$9,377,135</b>	<b>\$10,720,729</b>	<b>\$18,928,871 (2)</b>	<b>36.2%</b>
<b>Capital</b>						
Bldgs/Improvements & Equip	\$65,903,450	\$23,788,935	\$14,525,538	\$38,314,472	\$27,588,978 (3)	58.1%
Intrafund Transfers	1,992,000	-	1,067,366	1,067,366	924,634	53.6%
<b>Total Capital :</b>	<b>\$67,895,450</b>	<b>\$23,788,935</b>	<b>\$15,592,904</b>	<b>\$39,381,839</b>	<b>\$28,513,611</b>	<b>58.0%</b>
<b>Grand Total Expenditures:</b>	<b>\$97,545,050</b>	<b>\$25,132,528</b>	<b>\$24,970,039</b>	<b>\$50,102,567</b>	<b>\$47,442,483</b>	<b>51.4%</b>
<i>Revenues</i>	FY 20/21 Budget	Encumbrances	Revenues to date	Revenues posted to date	Unposted Revenue	Percent Posted
<b>Operating</b>						
Use of Money/Property	\$578,000		\$257,037	\$257,037	\$320,963	44.5%
Charges for Services	31,213,500		5,530,277	5,530,277	25,683,223	17.7%
Miscellaneous Revenues	60,000		47,603	47,603	12,397	79.3%
Donations/Contributions (Capital Labor)	-		379,180	379,180	(379,180) (4)	N/A
<b>Total Operating:</b>	<b>\$31,851,500</b>		<b>\$6,214,097</b>	<b>\$6,214,097</b>	<b>\$25,637,403</b>	<b>19.5%</b>
<b>Capital</b>						
Use of Money/Property	\$0		\$605	\$605	(\$605)	N/A
Capacity Charges	5,178,000		645,549	645,549	4,532,451	12.5%
Bond/Loan Proceeds	15,416,600		-	-	15,416,600	0.0%
Sale of Assets	25,000		-	-	25,000	0.0%
Miscellaneous Revenues	5,000		-	-	5,000	0.0%
Intrafund Transfers	14,078,000		1,067,366	1,067,366	13,010,634	7.6%
<b>Total Capital:</b>	<b>\$34,702,600</b>		<b>\$1,713,520</b>	<b>\$1,713,520</b>	<b>\$32,989,080</b>	<b>4.9%</b>
<b>Grand Total Revenue:</b>	<b>\$66,554,100</b>		<b>\$7,927,617</b>	<b>\$7,927,617</b>	<b>\$58,626,483</b>	<b>11.9%</b>

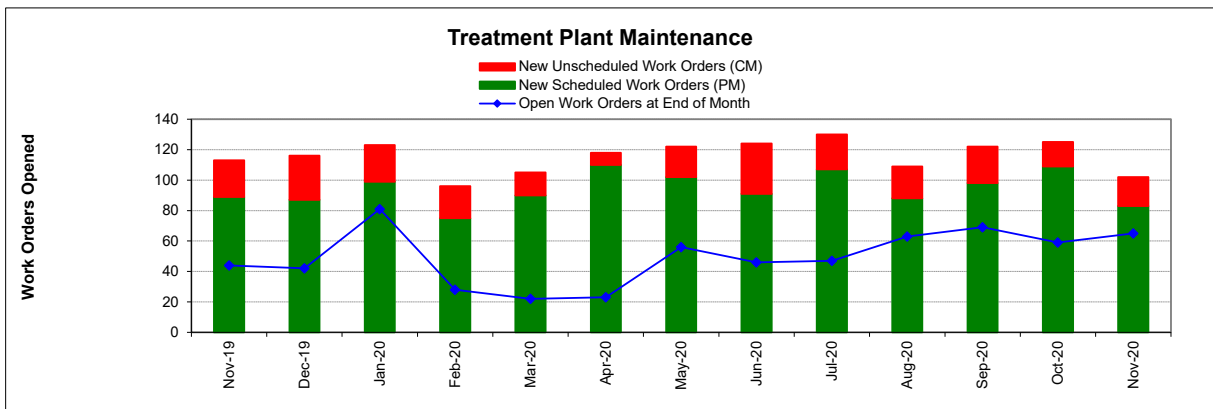
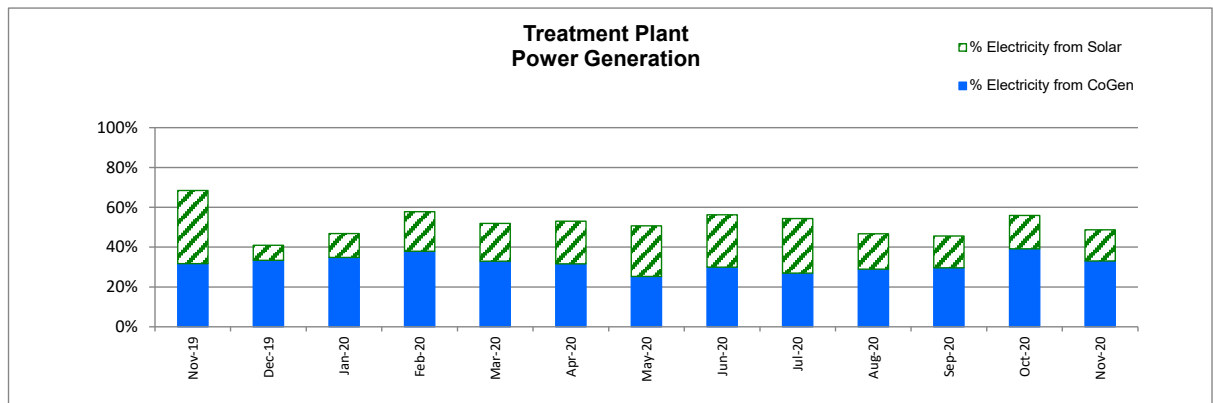
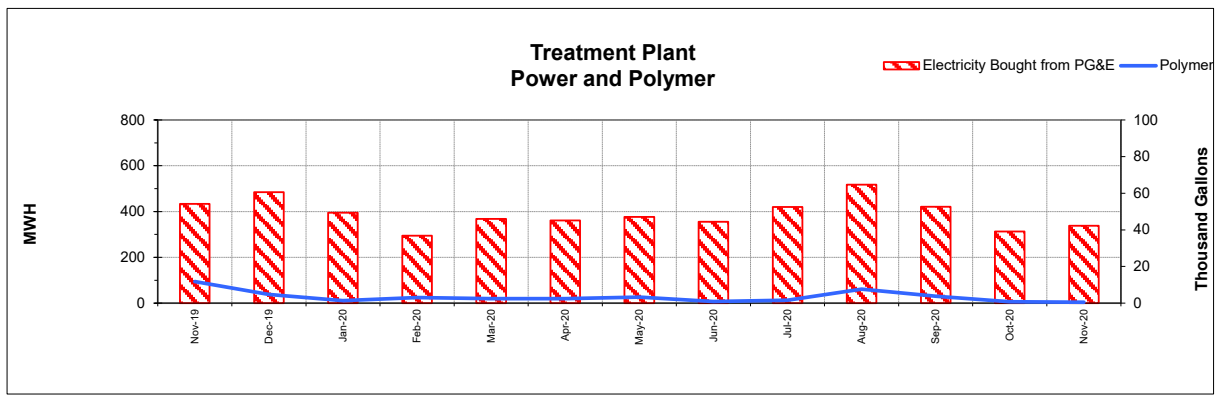
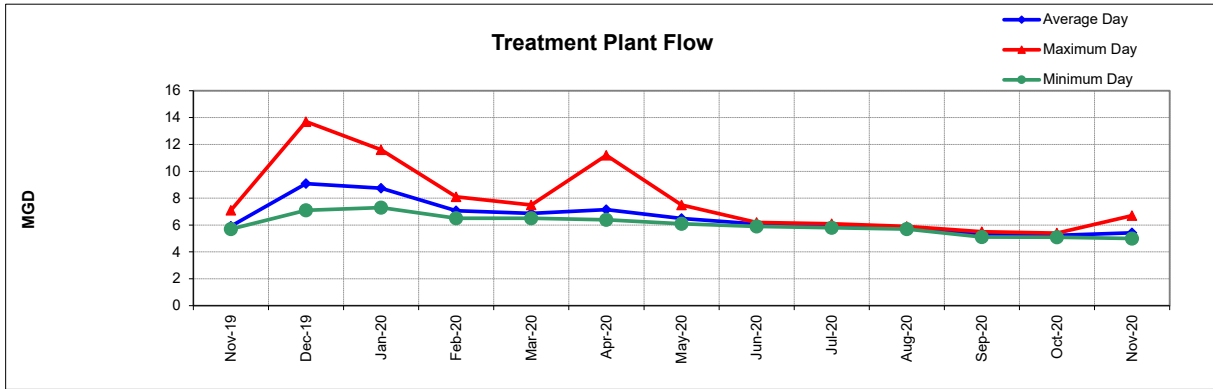
**Cash on Hand as of 11/30/20** **\$14,085,316**

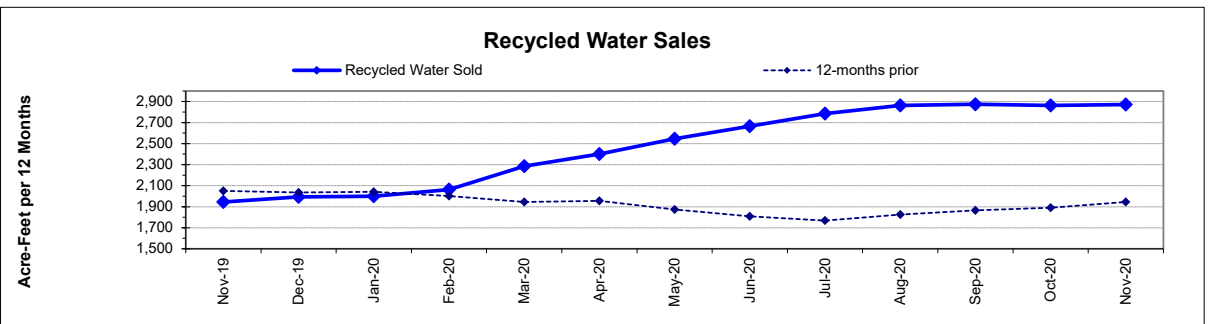
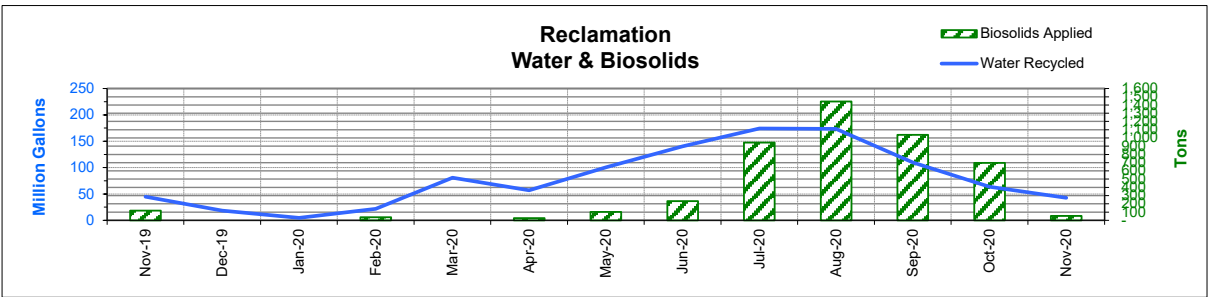
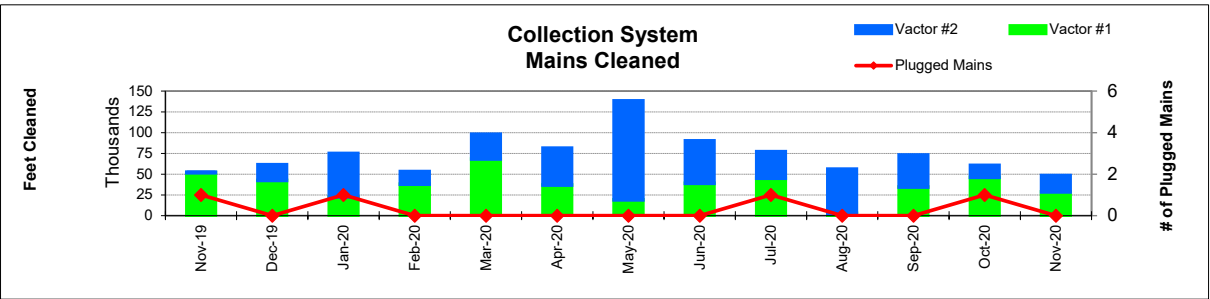
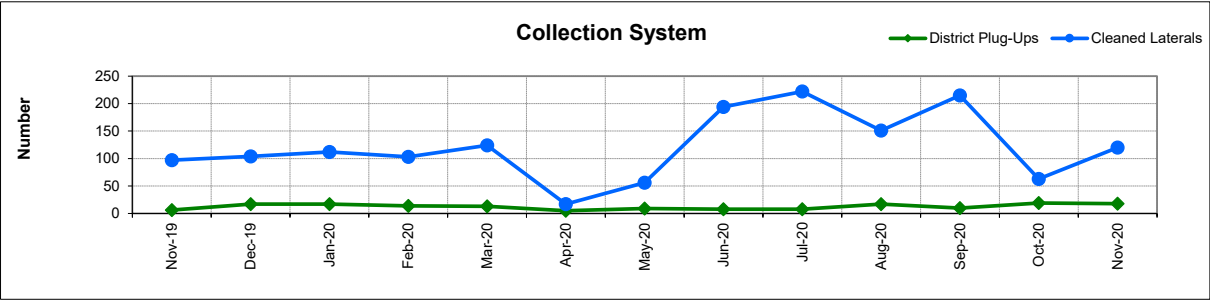
\*\*excluding Debt Service restricted funds  
11/30/20 -Effective Rate of Return = 1.53%

1. Series 2012A's and 2017's principal/interest payments are made in Jul
2. Includes Debt Service and Intrafund Transfers; otherwise is 43.5%
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>Nov-19</b>	<b>Dec-19</b>	<b>Jan-20</b>	<b>Feb-20</b>	<b>Mar-20</b>	<b>Apr-20</b>	<b>May-20</b>	<b>Jun-20</b>	<b>Jul-20</b>	<b>Aug-20</b>	<b>Sep-20</b>	<b>Oct-20</b>	<b>Nov-20</b>
<i>(Thousand Dollars)</i>													
7800	2,858	14,616	13,107	13,136	13,427	21,767	20,787	20,841	15,104	1,143	924	231	3,270
7850	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Subtotal Operating</b>	<b>2,858</b>	<b>14,616</b>	<b>13,107</b>	<b>13,136</b>	<b>13,427</b>	<b>21,767</b>	<b>20,787</b>	<b>20,841</b>	<b>15,104</b>	<b>1,143</b>	<b>924</b>	<b>231</b>	<b>3,270</b>
Capital Improvement Projects	15,430	14,579	14,477	13,860	13,326	12,924	12,268	11,626	9,009	21,179	16,674	15,526	10,816
Debt Proceeds	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Subtotal Capital</b>	<b>15,430</b>	<b>14,579</b>	<b>14,477</b>	<b>13,860</b>	<b>13,326</b>	<b>12,924</b>	<b>12,268</b>	<b>11,626</b>	<b>9,009</b>	<b>21,179</b>	<b>16,674</b>	<b>15,526</b>	<b>10,816</b>
<b>Total Discretionary Funds</b>	<b>18,288</b>	<b>29,195</b>	<b>27,584</b>	<b>26,996</b>	<b>26,753</b>	<b>34,691</b>	<b>33,055</b>	<b>32,467</b>	<b>24,113</b>	<b>22,322</b>	<b>17,598</b>	<b>15,757</b>	<b>14,086</b>
Expansion Fund (Restricted)	-	-	-	-	-	-	-	378	-	-	-	-	-
<b>Total Restricted Funds</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>378</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>TOTAL ALL FUNDS</b>	<b>18,288</b>	<b>29,195</b>	<b>27,584</b>	<b>26,996</b>	<b>26,753</b>	<b>34,691</b>	<b>33,055</b>	<b>32,845</b>	<b>24,113</b>	<b>22,322</b>	<b>17,598</b>	<b>15,757</b>	<b>14,086</b>

# DEVELOPMENT WORKLOAD - MONTHLY

CATEGORY	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20
<b><u>Phone Requests</u></b>													
Maps/Drawings	11	4	6	5	2	3	1	7	1	4	2	2	2
Lateral Permits	-	-	-	-	-	-	-	-	-	-	-	-	-
Policy Questions	2	-	2	5	5	-	-	3	3	1	3	1	1
Development Questions	40	29	32	38	29	24	36	45	31	48	45	30	38
Miscellaneous	13	24	10	12	8	5	6	7	6	13	14	11	8
<b>TOTAL</b>	<b>66</b>	<b>57</b>	<b>50</b>	<b>60</b>	<b>44</b>	<b>32</b>	<b>43</b>	<b>62</b>	<b>41</b>	<b>66</b>	<b>64</b>	<b>44</b>	<b>49</b>
<b><u>Counter Requests</u></b>													
Maps/Drawings	-	-	-	-	-	-	-	-	-	-	-	-	-
Lateral Permits	7	8	5	19	20	7	10	10	15	8	7	13	13
Policy Questions	1	-	-	-	1	-	-	-	-	-	-	-	-
Development Questions	7	7	4	2	2	-	-	-	2	-	-	-	3
Miscellaneous	-	-	1	1	1	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>15</b>	<b>15</b>	<b>10</b>	<b>22</b>	<b>24</b>	<b>7</b>	<b>10</b>	<b>10</b>	<b>17</b>	<b>8</b>	<b>7</b>	<b>13</b>	<b>16</b>
<b><u>Initial Request (Referrals)</u></b>	11	9	9	13	8	7	4	8	6	17	10	8	15
<b><u>Connection Permits Issued</u></b>													
Residential Permits	3	0	9	22	6	6	14	10	6	6	10	2	6
Commercial Permits	3	1	1	-	2	1	-	1	6	1	1	1	5
Industrial Permits	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>TOTAL PERMITS</b>	<b>6</b>	<b>1</b>	<b>10</b>	<b>22</b>	<b>8</b>	<b>7</b>	<b>14</b>	<b>11</b>	<b>12</b>	<b>7</b>	<b>11</b>	<b>3</b>	<b>11</b>
Residential Units	5	0	11	13	6	56	20	16	6	5	10	13	13
Commercial Units	133	1	1	-	2	1	-	20	6	1	1	1	-
<b>TOTAL UNITS</b>	<b>138</b>	<b>1</b>	<b>12</b>	<b>13</b>	<b>8</b>	<b>57</b>	<b>20</b>	<b>36</b>	<b>12</b>	<b>6</b>	<b>11</b>	<b>14</b>	<b>13</b>
<b><u>Annexations</u></b>													
Submitted	-	-	-	-	-	1	-	-	2	-	-	-	1
Acreage	-	-	-	-	-	0.50	-	-	18.2	-	-	-	36.06
<b><u>Plans Reviewed</u></b>													
<b><u>Subdivisions/Sites</u></b>													
First Submittal	8	24	12	5	12	7	13	12	12	9	8	5	8
Second Submittal	6	6	12	7	4	8	9	10	11	4	10	1	8
Third Submittal	3	6	4	5	3	2	4	8	4	6	8	7	5
<b><u>Building/Tenant Improvements</u></b>													
First Submittal	4	3	12	9	9	5	4	9	5	9	2	4	7
Second Submittal	1	4	3	2	6	4	2	10	4	5	4	3	1
Third Submittal	5	3	1	2	5	3	7	8	1	5	3	3	4
<b><u>Miscellaneous Plan Reviews</u></b>	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>TOTAL PLANS REVIEWED</b>	<b>27</b>	<b>46</b>	<b>44</b>	<b>30</b>	<b>39</b>	<b>29</b>	<b>39</b>	<b>57</b>	<b>37</b>	<b>38</b>	<b>35</b>	<b>23</b>	<b>33</b>

# INSPECTION WORKLOAD - MONTHLY

CATEGORY	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20
<b><u>CONSTRUCTION</u></b>													
Locating Sewers	-	-	-	-	-	-	-	-	-	-	-	-	-
Permit Processing	-	-	-	-	-	-	-	-	-	-	-	-	-
Preconstruction Meetings	1	2	4	4	3	3	-	-	1	2	2	-	-
Inspections - Mains	1	-	-	-	-	-	6	5	2	-	-	7	3
Inspections - Manholes	6	3	9	16	37	-	6	-	6	6	6	5	6
Inspections - Laterals	22	10	15	8	13	48	32	9	12	12	8	12	8
Inspections - Cleanouts	33	44	26	32	35	90	4	2	3	5	11	9	13
Inspections - Review Video	1	-	1	2	4	2	-	2	2	3	2	4	-
Demo - Septic Tanks	-	-	-	-	-	-	-	-	-	-	-	-	-
Demo - Buildings	-	-	-	-	-	-	-	-	-	1	-	-	-
Update Record Drawings	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>64</b>	<b>59</b>	<b>55</b>	<b>62</b>	<b>92</b>	<b>143</b>	<b>48</b>	<b>18</b>	<b>26</b>	<b>29</b>	<b>29</b>	<b>37</b>	<b>30</b>
<b><u>MISCELLANEOUS</u></b>													
Meter Readings	-	-	59	1	-	4	-	-	-	-	-	-	-
Washdown Facility Inspections	-	-	-	-	-	-	-	-	-	-	-	-	-
General Customer Assistance	12	-	6	9	15	14	24	30	26	46	35	27	35
City of Napa Water Discharge	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>12</b>	<b>-</b>	<b>65</b>	<b>10</b>	<b>15</b>	<b>18</b>	<b>24</b>	<b>30</b>	<b>26</b>	<b>46</b>	<b>35</b>	<b>27</b>	<b>35</b>
<b><u>SPECIAL PROJECTS</u></b>	<b>19</b>	<b>30</b>	<b>10</b>	<b>0</b>	<b>11</b>	<b>26</b>	<b>23</b>	<b>22</b>	<b>23</b>	<b>21</b>	<b>21</b>	<b>22</b>	<b>21</b>

## POLLUTION PREVENTION WORKLOAD - MONTHLY

[illegible]

# RECYCLED WATER DELIVERIES - MONTHLY

	Acres	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20
<b>MONTHLY (MG)</b>														
<b>Water Sold</b>														
Golf Courses	638.0	16.340	0.007	0.001	12.483	20.366	24.765	52.367	75.187	74.385	62.144	45.656	25.052	21.811
Cemeteries	57.1	3.028	0.250	0.222	0.514	3.078	3.422	3.965	4.958	5.192	5.091	4.257	4.064	2.374
Parks	18.5	0.028	-	-	-	0.001	-	0.271	1.188	1.670	1.142	0.691	0.638	0.274
Schools	12.6	0.792	0.085	0.044	0.157	0.685	0.716	2.146	2.341	2.926	2.583	1.995	1.372	0.827
Commerical	166.5	11.799	2.254	0.986	3.206	9.845	9.241	13.725	15.874	20.068	18.844	14.144	13.084	8.985
Vineyards	3,442.0	7.027	15.494	3.170	5.250	46.305	17.728	19.191	24.276	51.661	68.013	36.009	16.738	7.086
Trucked Water	175.0	1.097	0.476	0.227	0.134	0.415	1.147	3.612	3.079	1.988	3.988	2.748	2.104	1.251
<b>Subtotal Sales</b>	<b>4,509.6</b>	<b>40.111</b>	<b>18.567</b>	<b>4.650</b>	<b>21.745</b>	<b>80.694</b>	<b>57.018</b>	<b>95.277</b>	<b>126.903</b>	<b>157.889</b>	<b>161.805</b>	<b>105.500</b>	<b>63.053</b>	<b>42.607</b>
<b>District Use</b>														
Jameson	330.0	-	-	0.024	-	-	-	-	-	1.479	1.146	1.271	-	-
Somky	213.0	4.513	-	0.006	0.050	0.026	0.080	5.408	13.369	14.836	10.491	2.855	0.547	0.254
Fagundes/Airport	50.5	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Subtotal District</b>	<b>593.5</b>	<b>4.513</b>	<b>-</b>	<b>0.030</b>	<b>0.050</b>	<b>0.026</b>	<b>0.080</b>	<b>5.408</b>	<b>13.369</b>	<b>16.315</b>	<b>11.638</b>	<b>4.126</b>	<b>0.547</b>	<b>0.254</b>
<b>TOTAL DELIVERED</b>	<b>5,103.1</b>	<b>44.624</b>	<b>18.567</b>	<b>4.681</b>	<b>21.795</b>	<b>80.720</b>	<b>57.098</b>	<b>100.686</b>	<b>140.271</b>	<b>174.204</b>	<b>173.443</b>	<b>109.626</b>	<b>63.600</b>	<b>42.861</b>
<b>ANNUAL (AF)</b>														
<b>Water Sold</b>														
Golf Courses	638.0	1,003	1,003	1,003	1,042	1,104	1,151	1,232	1,283	1,297	1,288	1,275	1,254	1,271
Cemeteries	57.1	102	101	100	102	110	116	117	121	120	118	117	117	115
Parks	18.5	15	15	15	15	15	15	15	16	19	18	17	17	18
Schools	12.6	33	33	33	33	35	37	40	42	45	47	48	49	49
Commerical	166.5	337	338	337	345	373	386	396	407	412	415	410	408	400
Vineyards	3,442.0	431	477	486	500	621	665	705	748	842	919	945	954	954
Trucked Water	175.0	24	25	26	26	27	31	40	48	50	58	62	64	65
<b>Subtotal Sales</b>	<b>4,509.6</b>	<b>1,945</b>	<b>1,993</b>	<b>2,001</b>	<b>2,064</b>	<b>2,286</b>	<b>2,401</b>	<b>2,546</b>	<b>2,666</b>	<b>2,785</b>	<b>2,864</b>	<b>2,874</b>	<b>2,864</b>	<b>2,872</b>
<b>District Use</b>														
Jameson	330.0	1	1	2	2	2	2	2	2	6	8	12	12	12
Somky	213.0	272	272	272	273	273	273	282	286	279	232	178	160	147
Fagundes/Airport	50.5	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Subtotal District</b>	<b>593.5</b>	<b>274</b>	<b>274</b>	<b>274</b>	<b>274</b>	<b>274</b>	<b>274</b>	<b>283</b>	<b>288</b>	<b>285</b>	<b>240</b>	<b>190</b>	<b>172</b>	<b>159</b>
<b>TOTAL DELIVERED</b>	<b>5,103.1</b>	<b>2,219</b>	<b>2,267</b>	<b>2,274</b>	<b>2,338</b>	<b>2,561</b>	<b>2,675</b>	<b>2,830</b>	<b>2,953</b>	<b>3,070</b>	<b>3,104</b>	<b>3,064</b>	<b>3,036</b>	<b>3,031</b>

# BIOSOLIDS HANDLING - MONTHLY

Site	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20
<u>Land Applied by NSD</u>													
Somky													
Fagundes												22	53
Jameson Canyon	117	-	-	37	-	26	103	234	49	165	201	85	
Subtotal by NSD	117	-	-	37	-	26	103	234	49	165	201	107	53
<u>Land Applied by Contractor</u>													
Somky									893	1,277	838	590	
Fagundes													
Jameson Canyon													
Subtotal by Contractor	-	-	-	-	-	-	-	-	893	1,277	838	590	-
<b>Total Land Applied</b>	<b>117</b>	<b>-</b>	<b>-</b>	<b>37</b>	<b>-</b>	<b>26</b>	<b>103</b>	<b>234</b>	<b>942</b>	<b>1,442</b>	<b>1,039</b>	<b>697</b>	<b>53</b>
<b>Off Site (Contractor)</b>													
<b>Total (tons)</b>	<b>117</b>	<b>-</b>	<b>-</b>	<b>37</b>	<b>-</b>	<b>26</b>	<b>103</b>	<b>234</b>	<b>942</b>	<b>1,442</b>	<b>1,039</b>	<b>697</b>	<b>53</b>



# COLLECTION SYSTEM MAINTENANCE - MONTHLY

CATEGORY	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20
<b><u>Plugups</u></b>													
<b>Total Calls</b>	38	60	68	39	35	31	37	34	23	47	29	62	56
Business Hours	28	37	42	25	22	23	25	25	17	28	19	43	37
After Hours	10	23	22	14	13	8	12	9	6	19	10	19	19
District's	6	17	17	14	13	5	9	8	8	17	10	19	18
Property Owner's	32	42	46	24	22	26	28	26	15	30	19	42	38
Plugged Main Lines	1	-	1	-		-	-	-	1	-	-	1	-
Run Lateral w/Eel	97	104	112	103	124	17	56	194	222	151	215	63	120
<b><u>Cleaning (feet of sewer)</u></b>													
Vactor #1	51,764	42,519	22,372	37,916	68,243	36,849	18,947	39,019	45,066	2,936	34,338	46,255	28,507
Vactor #2	610	18,811	52,620	15,049	29,691	44,336	119,112	50,948	31,916	53,184	38,654	14,202	19,789
Hydro							42,241	-	-	-	-	-	-
Rodder		558	-	-		2,915	-	-	-	694	-	-	-
<b>Total (feet)</b>	<b>52,374</b>	<b>61,888</b>	<b>74,993</b>	<b>52,965</b>	<b>97,933</b>	<b>84,100</b>	<b>180,301</b>	<b>89,967</b>	<b>76,982</b>	<b>56,814</b>	<b>72,992</b>	<b>60,457</b>	<b>48,296</b>
<b><u>Cleaning Days</u></b>													
Vactor #1	18	17	10	15	16	10	9	17	17	3	10	16	12
Vactor #2	1	10	16	5	8	11	17	16	11	17	11	6	8
Hydro							4	-	-	-	-	-	-
Rodder		2				2		-	-	1	-	-	-
<b><u>Feet/day</u></b>													
Vactor #1	2,750	2,150	2,900	2,650	4,100	3,650	6,000	2,750	2,750	2,700	3,500	2,750	2,400
Vactor #2	2,900	2,500	2,250	2,550	4,250	3,700	2,100	2,300	2,650	1,000	3,450	2,900	2,400
Hydro	600	1,900	3,300	3,000	3,700	4,050	7,000	3,200	2,900	3,150	3,500	2,350	2,450
Rodder		300			-	1,450	10,550			700			
<b><u>Video Inspections</u></b>													
Mains (feet)	10,825	-	13,832	30,961	26,158	6,798	27,649	16,016	24,214	22,515	19,796	26,009	28,717
Laterals (each)	165	182	188	180	206	75	109	239	270	210	259	184	204
<b><u>Construction (each)</u></b>													
Cleanouts	10	4	8	15	15	1	3	12	9	15	21	8	12
Laterals	9	10	10	8	4	-	4	19	6	25	23	20	9
Mains		-	1	-	-	-	-	-	-	-	1	4	3
Manholes		-		-	5	-	-	-	1	-	-	3	-
Other					-	-	-	-	-	-	5	25	-
<b><u>USA Markings</u></b>													
Regular (w/in 2 days)	224	290	271	423	232	258	260	284	278	297	281	278	246
Emergency (w/in 2 hours)	7	21	22	9	11	36	14	13	10	18	12	13	13

## WASTEWATER PLANT OPERATIONS DATA - MONTHLY

CATEGORY	Units	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20
<b>FLOWES</b>		<b>30</b>	<b>31</b>	<b>31</b>	<b>29</b>	<b>31</b>	<b>30</b>	<b>31</b>	<b>30</b>	<b>31</b>	<b>31</b>	<b>30</b>	<b>31</b>	<b>30</b>
<b>Influent</b>	<b>MG</b>	<b>177.6</b>	<b>281.6</b>	<b>271.0</b>	<b>204.9</b>	<b>212.9</b>	<b>214.3</b>	<b>201.2</b>	<b>182.5</b>	<b>182.3</b>	<b>180.0</b>	<b>159.7</b>	<b>162.3</b>	<b>162.6</b>
<b>Average Day</b>	<b>MGD</b>	<b>5.9</b>	<b>9.1</b>	<b>8.7</b>	<b>7.1</b>	<b>6.9</b>	<b>7.1</b>	<b>6.5</b>	<b>6.1</b>	<b>5.9</b>	<b>5.8</b>	<b>5.3</b>	<b>5.2</b>	<b>5.4</b>
Maximum Day	Date	27-Nov	7-Dec	16-Jan	1-Feb	19-Mar	5-Apr	18-May	6-Jun	3-Jul	9-Aug	29-Sep	1-Oct	18-Nov
Maximum Day Flow	MG	7.1	13.7	11.6	8.1	7.5	11.2	7.5	6.2	6.1	5.9	5.5	5.4	6.7
Minimum Day	Date	1-Nov	17-Dec	7-Jan	25-Feb	12-Mar	30-Apr	10-May	30-Jun	31-Jul	19-Aug	6-Sep	16-Oct	27-Nov
Minimum Day Flow	MG	5.7	7.1	7.3	6.5	6.5	6.4	6.1	5.9	5.8	5.7	5.1	5.1	5.0
<b>Effluent</b>	<b>MG</b>	<b>309.7</b>	<b>344.4</b>	<b>286.6</b>	<b>204.0</b>	<b>133.7</b>	<b>236.6</b>	<b>110.0</b>	<b>159.3</b>	<b>192.5</b>	<b>196.9</b>	<b>121.4</b>	<b>79.5</b>	<b>71.0</b>
River Discharge	MG	265.0	323.2	271.3	177.3	77.9	174.6	-	-	-	-	-	-	22.4
Recycled Flow	MG	44.6	21.2	15.3	26.7	55.7	58.6	98.3	159.3	192.5	196.9	121.4	79.5	48.6
<b>BIOSOLIDS</b>	<b>Tons</b>	<b>762</b>	<b>769</b>	<b>643</b>	<b>523</b>	<b>685</b>	<b>638</b>	<b>473</b>	<b>738</b>	<b>695</b>	<b>680</b>	<b>694</b>	<b>675</b>	<b>557</b>
Wet Tons Generated from Pond	Tons							-				-	-	-
Wet Tons Generated from Plant	Tons	762	769	643	523	685	638	473	738	695	680	694	675	557
% Solids Liquid	%													
% Solids Cake	%													
% Solids Land Application	%													
<b>Wet Tons Hauled Offsite</b>	<b>Tons</b>													
<b>POLYMER USE</b>	<b>Gallons</b>	<b>11,780</b>	<b>4,681</b>	<b>1,363</b>	<b>3,036</b>	<b>2,498</b>	<b>2,490</b>	<b>3,271</b>	<b>861</b>	<b>1,548</b>	<b>7,611</b>	<b>3,807</b>	<b>768</b>	<b>485</b>
Pond Pre-Flocculators	Gallons	6,311	2,114	-	217	-	-	-	-	163	1,812	1,103	-	-
Flocculator Polymer 1	Gallons	-	-	-	-	-	-	-	-	-	-	-	-	-
Flocculator Polymer 2	Gallons	427	382	206	37	146	301	-	-	20	203	60	-	-
Filter Polymer 1	Gallons	4,401	1,378	354	2,128	1,608	1,463	2,874	342	762	5,057	2,020	89	-
Filter Polymer 2	Gallons	-	-	-	-	120	179	-	-	-	68	90	93	15
Belt Presses	Gallons	641	807	803	654	624	547	397	519	603	471	534	586	470
<b>ENERGY</b>														
<b>Total Electricity Used</b>	<b>MWH</b>	<b>778</b>	<b>821</b>	<b>743</b>	<b>683</b>	<b>749</b>	<b>756</b>	<b>764</b>	<b>811</b>	<b>862</b>	<b>971</b>	<b>774</b>	<b>710</b>	<b>659</b>
Purchased from PGE	MWH	433	485	395	295	368	361	377	355	420	517	421	313	338
Produced from Co-Gen	MWH	247	274	259	252	239	233	193	243	232	281	229	278	218
Percent Produced	%	32%	33%	35%	38%	33%	32%	25%	30%	27%	29%	30%	39%	33%
Purchased from Solar	MWH	98	62	89	136	142	162	194	213	210	173	124	119	103
Percent Produced		37%	8%	12%	20%	19%	21%	25%	26%	27%	18%	16%	17%	16%
Purchased Natural Gas	Therms	1,800	2,220	1,807	1,595	2,132	1,920	1,253	1,346	1,549	1,338	1,779	1,416	1,385
Methane Flared Off	MCF	214	593	88	190	731	137	18	77	26	177	72	128	157
<b>Stand By Calls</b>	<b>#</b>	<b>88</b>	<b>66</b>	<b>65</b>	<b>47</b>	<b>51</b>	<b>39</b>	<b>72</b>	<b>47</b>	<b>44</b>	<b>56</b>	<b>49</b>	<b>60</b>	<b>21</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**

<b>CATEGORY</b>	<b>Nov-19</b>	<b>Dec-19</b>	<b>Jan-20</b>	<b>Feb-20</b>	<b>Mar-20</b>	<b>Apr-20</b>	<b>May-20</b>	<b>Jun-20</b>	<b>Jul-20</b>	<b>Aug-20</b>	<b>Sep-20</b>	<b>Oct-20</b>	<b>Nov-20</b>
<b><u>Scheduled</u></b>													
Old	17	24	23	49	5	6	9	39	25	26	40	39	24
New	89	87	99	75	90	110	102	91	107	88	98	109	83
Completed	82	88	73	119	89	107	72	105	106	74	99	124	76
<b>New Balance</b>	<b>24</b>	<b>23</b>	<b>49</b>	<b>5</b>	<b>6</b>	<b>9</b>	<b>39</b>	<b>25</b>	<b>26</b>	<b>40</b>	<b>39</b>	<b>24</b>	<b>31</b>
<b><u>Unscheduled</u></b>													
Old	24	20	19	32	23	16	14	17	21	21	23	30	35
New	24	29	24	21	15	8	20	33	23	21	24	16	19
Completed	28	30	11	30	22	10	17	29	23	19	17	11	20
<b>New Balance</b>	<b>20</b>	<b>19</b>	<b>32</b>	<b>23</b>	<b>16</b>	<b>14</b>	<b>17</b>	<b>21</b>	<b>21</b>	<b>23</b>	<b>30</b>	<b>35</b>	<b>34</b>
<b><u>Total Work Orders</u></b>													
Old	41	44	42	81	28	22	23	56	46	47	63	69	59
New	113	116	123	96	105	118	122	124	130	109	122	125	102
Completed	110	116	84	149	112	118	90	135	130	93	116	133	96
<b>New Balance</b>	<b>44</b>	<b>42</b>	<b>81</b>	<b>28</b>	<b>22</b>	<b>23</b>	<b>56</b>	<b>46</b>	<b>47</b>	<b>63</b>	<b>69</b>	<b>59</b>	<b>65</b>
<b><u>LAB ANALYSES</u></b>													
<b><u>Sample Type</u></b>													
Regulatory	240	176	157	192	213	237	140	172	220	189	141	191	221
Process Control	1,010	1,072	1,208	1,039	1,058	1,015	708	815	776	772	700	906	960
Special Request	38	16	-	32	16	12	20	140	38	51	31	10	301
Quality Control/Assurance	957	839	923	1,324	1,043	1,058	595	622	661	674	577	727	928
<b>TOTAL</b>	<b>2,245</b>	<b>2,103</b>	<b>2,288</b>	<b>2,587</b>	<b>2,330</b>	<b>2,322</b>	<b>1,463</b>	<b>1,749</b>	<b>1,695</b>	<b>1,686</b>	<b>1,449</b>	<b>1,834</b>	<b>2,410</b>

**Summary of NSD Capital Project Status  
through 11-30-20**

Proj #	Description (shortened)	FY 20/21 Budget	FY 19/20 Carry Forwards	Adj.	Final FY 20/21 Budget	Encumbrance	Costs Paid to Date	Budget Remaining	% Budget Expended
	<b><u>COLLECTION SYSTEM - PROJECTS</u></b>								
13701	Main Line Sewer Rehab	62,100			62,100	-	10,071	52,029	16%
13702	Manhole Raising/Rehab	250,000			250,000	-	7,183	242,817	3%
13703	Lateral Replacement/Rehab	113,900			113,900	-	57,850	56,050	51%
13704	Cleanouts Installation/Rehab	110,700		(12,000)	98,700	-	37,724	60,976	38%
13705	I&I Reduction Program	30,000	210,500		240,500	196,100	186	44,214	0%
14703	Browns Valley Rd & First St	14,000,000	5,733,950		19,733,950	9,854,027	8,215,116	1,664,807	42%
18702	Coll Sys Asset Mgmt Software	-	216,600	50,000	266,600	123,155	97,946	45,499	37%
19701	66-inch Trunk Rehab	11,000,000	4,086,550		15,086,550	202,934	110,008	14,773,608	1%
19703	Sewer System I&I 2020	3,850,000	2,341,400		6,191,400	4,285,844	1,510,611	394,946	24%
19727	Coll Sys Master Plan	-	100,000		100,000	-	2,984	97,016	3%
20702	Manhole Rehabilitation	250,000			250,000	39,230	-	210,770	-
20703	2021 Collection System Rehab	3,410,000	16,550		3,426,550	35,965	56,163	3,334,422	2%
21701	2022 Collection System Rehab	20,000			20,000	-	-	20,000	-
21718	NN Siphon Gate Replacement	-	-	25,000	25,000	15,725	93	9,182	0%
	<b><u>COLLECTION SYSTEM - EQUIPMENT</u></b>								
21702	Pickup-mounted Camera Sys	65,000		12,000	77,000	-	75,069	1,931	97%
	<b><u>COLLECTION SYSTEM - LIFT STATIONS</u></b>								
17711	West Napa PS - Rehab	5,500,000	4,546,450		10,046,450	7,134,736	1,467,917	1,443,797	15%
19705	Stonecrest PS Pump Rebuild	-	24,850		24,850	-	-	24,850	-
21703	River Park Pump Rebuild	19,300			19,300	-	-	19,300	-
	<b><u>TREATMENT - PROJECTS</u></b>								
13745	Pond 1 Dredge	-	1,943,750		1,943,750	42,538	1,843,054	58,158	95%
18740	Treatment Plant Project 2019	-	64,850		64,850	49,208	792	14,850	1%
20706	WWTP Master Plan	1,235,400	950		1,236,350	643,689	84,626	508,035	7%
20707	Pond Levee Repair	700,000	9,150		709,150	109,207	109,602	490,341	15%
20708	2020 Treatment Plant Imprvmnts	-	1,407,600		1,407,600	166,510	40,607	1,200,482	3%
	<b><u>TREATMENT - EQUIPMENT</u></b>								
13735	Dual Fuel Boiler Burner	-	55,750		55,750	1	32,907	22,843	59%

**Summary of NSD Capital Project Status  
through 11-30-20**

<b>Proj #</b>	<b>Description (shortened)</b>	<b>FY 20/21 Budget</b>	<b>FY 19/20 Carry Forwards</b>	<b>Adj.</b>	<b>Final FY 20/21 Budget</b>	<b>Encumbrance</b>	<b>Costs Paid to Date</b>	<b>Budget Remaining</b>	<b>% Budget Expended</b>
15707	DAFT Overflow Pumps (2)	12,300	11,900		24,200	-	-	24,200	-
16712	Primary Clarifier Mech-Struct	700,000	390,200	140,000	1,230,200	440,704	535,484	254,012	44%
17726	Headworks Equip Rehab/Rplcmnt	-	240,700		240,700	86,476	18,147	136,077	8%
18718	Sec Clarifier Mech/Strct Rehab	83,200		(50,000)	33,200	-	-	33,200	-
18720	Neuros Blowers Rebuild	-	64,300		64,300	-	-	64,300	-
18722	FOG Station Water Heater	-	25,000		25,000	-	-	25,000	-
19708	Rotork Actuator Rplcmnt	-	75,900		75,900	-	25,204	50,696	33%
19709	Polymer Tank Rplcmnt	207,000	10,000	(185,000)	32,000	-	-	32,000	-
19710	12kV Redundant Line	-	83,650		83,650	26,287	14,359	43,004	17%
19715	ARV Rplcmnt	-	4,750		4,750	-	-	4,750	-
20709	AB Caustic Pumps & Enclosure	-	68,600		68,600	-	16,917	51,683	25%
20710	Septage Pump & Motor Rplcmnt	-	4,950		4,950	-	4,746	204	96%
20711	Marsh-to-Pond PS Upgrade	-	87,550		87,550	-	246	87,304	0%
20712	Grit Pump Rebuild	-	5,000		5,000	-	4,746	254	95%
20713	Elevator Control Update	-	400,000		400,000	-	-	400,000	-
20715	Concrete Pipe Chase Covers	-	80,000		80,000	32,007	32,007	15,985	40%
20716	Plant Door Replacement PH 1	-	22,200	8,000	30,200	-	-	30,200	-
21704	Headworks - Washer Compactor	314,400			314,400	178,068	-	136,332	-
21705	Pipe Threader	13,000			13,000	-	-	13,000	-
21706	Rotork Actuator Replacement	101,800			101,800	-	-	101,800	-
21707	Digester Roof Grating Rplcmnt	110,900			110,900	-	-	110,900	-
21708	Head works - Roof Replacement	80,300			80,300	-	-	80,300	-
21709	Plant Door Replacement - Ph 2	23,000		(8,000)	15,000	-	-	15,000	-
21710	Veh 175 - F-150	31,000			31,000	86,359	-	(55,359)	-
	<b><u>LAB - EQUIPMENT</u></b>								
21711	Autoclave Rplcmnt	34,400			34,400	-	-	34,400	-
21712	Sampler 4700 Rplcmnt	10,400			10,400	-	-	10,400	-
	<b><u>SCADA</u></b>								
18729	SCADA MP Proj 1 Ntwk Mntrng	-	46,200		46,200	-	-	46,200	-
19718	SCADA MP PH 5 Security Stdy	-	51,850		51,850	-	-	51,850	-
21713	SCADA Network Upgrades	225,000			225,000	-	-	225,000	-

**Summary of NSD Capital Project Status  
through 11-30-20**

<b>Proj #</b>	<b>Description (shortened)</b>	<b>FY 20/21 Budget</b>	<b>FY 19/20 Carry Forwards</b>	<b>Adj.</b>	<b>Final FY 20/21 Budget</b>	<b>Encumbrance</b>	<b>Costs Paid to Date</b>	<b>Budget Remaining</b>	<b>% Budget Expended</b>
21714	Alarm Evaluation & Programming	25,000			25,000	-	-	25,000	-
	<b><u>RECYCLING - PROJECTS</u></b>								
18731	Coombsville Truck Fill Station	-	112,100		112,100	40,070	1,920	70,110	2%
20721	Kirkland RW Pipeline Rehab	-	12,900		12,900	95	6,848	5,956	53%
	<b><u>RECYCLING - EQUIPMENT</u></b>								
19722	Veh 720/723 Attchmnts/Implmnts	30,700			30,700	-	-	30,700	-
20722	Badger Meter Replacement	-	80,000		80,000	-	1,782	78,218	2%
21715	Soscol Recycle Pump #2 Rehab	160,700			160,700	-	-	160,700	-
21716	Veh 174 - Ford F-350 SB	75,700			75,700	-	1,412	74,288	2%
21717	Veh 723 - Water Trailer	42,800			42,800	-	-	42,800	-
	<b><u>OTHER</u></b>								
13729	Development Technical Support	348,800			348,800	-	101,209	247,591	29%
19723	AV Sys Rplcmnt - Conf Rms	-	20,000	20,000	40,000	-	-	40,000	-
		<b>\$43,246,800</b>	<b>\$22,656,650</b>	<b>-</b>	<b>\$65,903,450</b>	<b>\$23,788,935</b>	<b>\$14,525,538</b>	<b>\$27,588,978</b>	<b>22%</b>