



Napa Sanitation District

General Manager's Report

for

August, 2019

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NAPA SANITATION DISTRICT

General Manager's Report

DATE: October 2, 2019

FROM: Timothy B. Healy, General Manager

SUBJECT: General Manager's Report for August 2019

REGULATORY COMPLIANCE:

Collection System Compliance:	0 Category 1 SSO's, 0 Category 2 SSO's, and 1 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 – August 31, 2019
Percent Fiscal Year:	16.7%
Operating Expenditures to date:	24.5%
Historical Expenditures to date:	26.4%
Significant Comments:	None.

PERSONNEL:

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

New Hires:	None
Separations:	None
Promotions:	Vennie Costanzo and Jordan Dunn, promoted to Collection System Worker II
Recruitment Activities:	None
Injuries:	Strained back - Operator III on August 7, 2019, no lost time.

Summaries of Operational Highlights are on following pages.

COLLECTIONS:

Significant events for the month of August 2019 in Collection System Maintenance include:

- The District had 0 Category 1 Sanitary Sewer Overflows (SSO's), 0 Category 2 SSO's and 1 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 12 cleanouts. They also repaired 3 laterals and lined 13 laterals. Additionally, the service response/programs crew completed 136 work orders in support of the grease and odor control program, responded to 52 customer requests for service (12 were NSD problem) and closed out 354 mark and locate request tickets.
- The preventative maintenance crews ran work orders on 152 laterals, cleaned approximately 129,248 feet of main line and CCTV inspected 34 laterals. In addition, the CCTV truck televised 40,818 feet of mainline.

TREATMENT PLANT:

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

Plant Operations:

- For August 2019, the plant's influent flow was 192.5 MG as compared to last year flow for August 2018 of 186.1 MG
- No river discharge occurred during August.
- There was 0.0" rainfall for August 2019 (Carneros Rainfall Center) as compared to 0.0" rainfall for August 2018.
- Pond 4 end of the month recorded level reading was 52.60". During August pond 3 was dewatered into pond 2 in preparation of pond 1 Sludge removal project next year.

Power Consumption and Production:

- August power purchased from PG&E was 358 MWH in comparison to July 2019 purchase of 346 MWH.
- Cogeneration unit ran 735 of 744 hours for the month – 98.66% uptime, averaging 335.30Kw, producing 246 MWH of energy.
- Solar generation in August was 200 MWH, compared to 217 MWH in July.

Maintenance:

Significant events for the month of August 2019:

Process Maintenance

- Cogeneration unit monthly emission test - in compliance with BAAQMD permit
- Cogen/replaced water pump
- Changed odor media in scrubber unit/West Napa
- Replaced drive gear in Headworks Supply fan 101
- Installed new Muffle Furnace in Lab
- Replaced Air Dryer in Plant Air System
- West Napa/replaced ARV on main discharge line
- Replaced level transducer/sump #4
- Filter Air Compressor #2/replaced unloader solenoid
- Rebuild Wafer Check Valve/P4 Pump #1

Projects

- Installed Soft Start on Headworks Supply fan #101
- Design and install redundant air compressor/Recycle Water Station Hydropneumatic Tank
- Firmware update on AB #4/compartiment 6C Auma Valve Actuator

Standby Power

- Plant generators operational testing only
- 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:

- August 14, 2019: Metals, Mercury, Cyanide

RECYCLING:

Significant events in the Recycling Department for August 2019 include:

- Recycled water delivered for the month of August 2019 was (162.484 million gallons), as compared to August 2018 (121.016 million gallons) is higher from the previous year due to commercial landscape, golf course and vineyard 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 August 2019 include:

- There were no tours or presentations this month.
- The truck wraps were installed on the camera truck and water truck.
- 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.
- Staff attended a communications training focusing on engaging with the community and legislators hosted by the California Special Districts Association.

ENGINEERING / CAPITAL PROJECTS / DEVELOPMENT:

Significant events occurring in the Engineering Division for August 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 design.
- 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 issued Notice Inviting Bids for the 2019 Manhole Rehabilitation Project.
- Staff issued Notice Inviting Bids for the Sanitary Sewer Manhole Adjustment Project, Phase IX.
- The construction contract for the Upper Lateral Rehabilitation Pilot Project #4 was awarded.
- 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 25 sets of development plans and deemed 11 sets of plans complete. The approved plans consisted of 5 tenant improvements, 5 residential dwellings, and 1 commercial demolition.

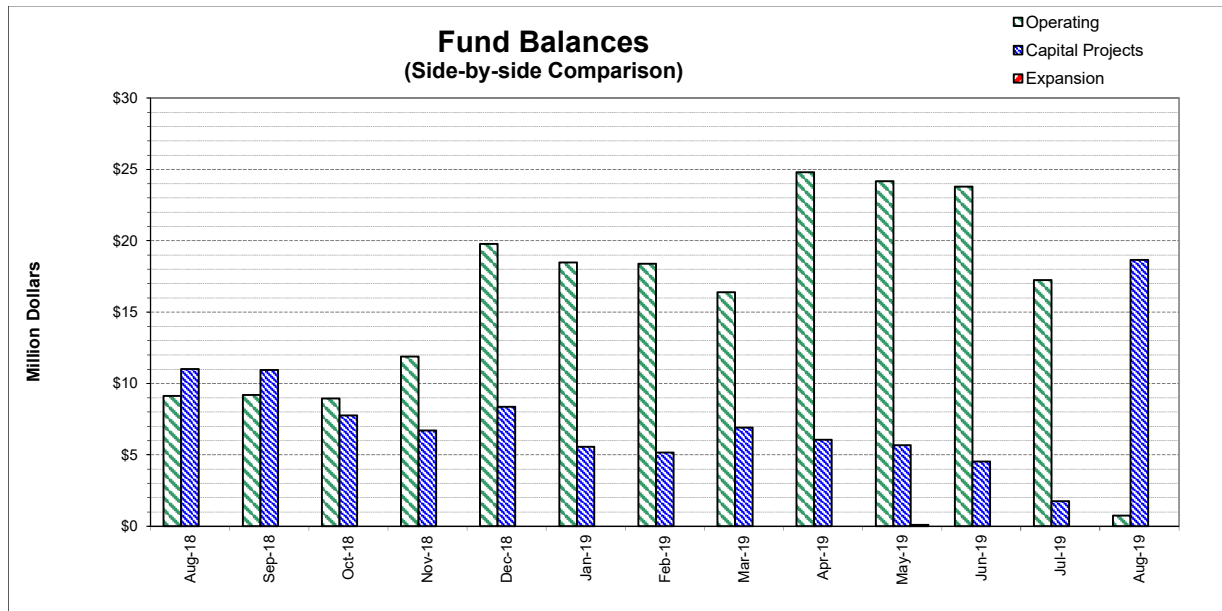
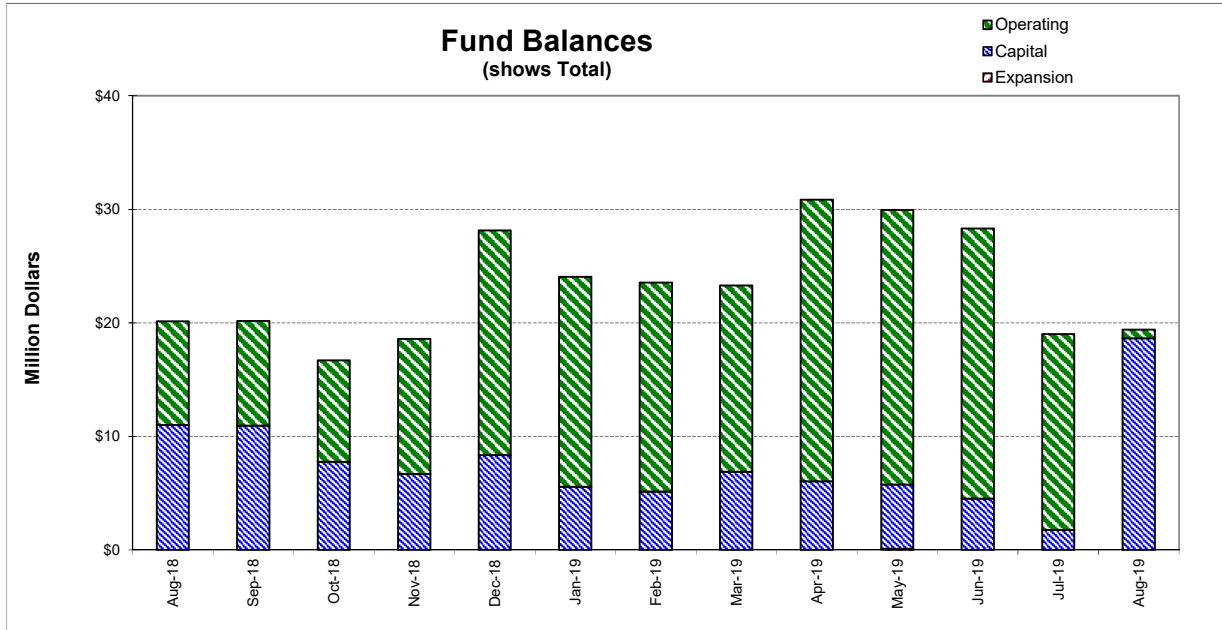
Budget Status & Cash Summary - July 1, 2019 - August 31, 2019 (16.7% of the year)

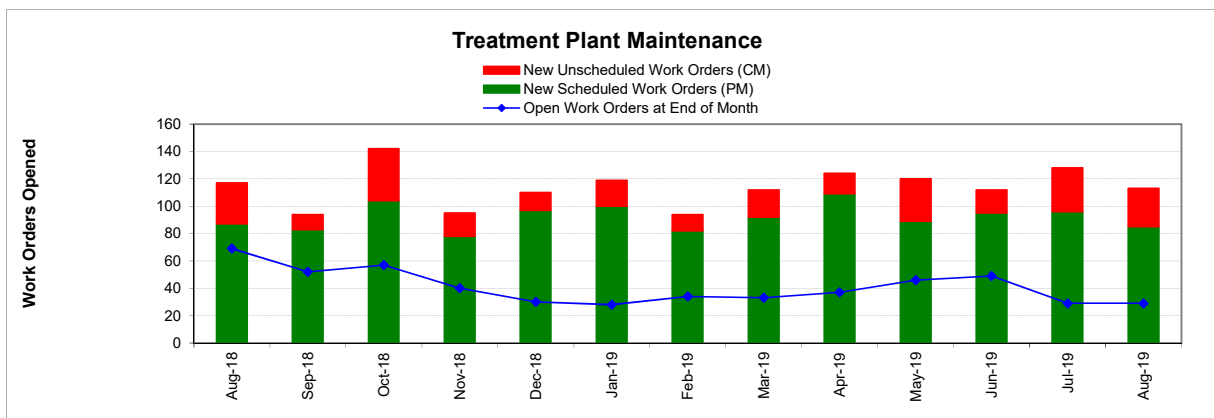
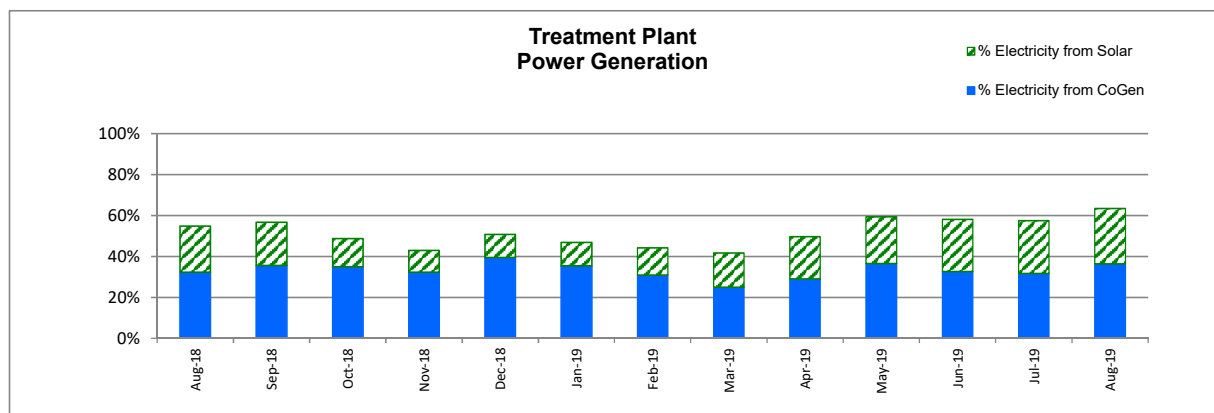
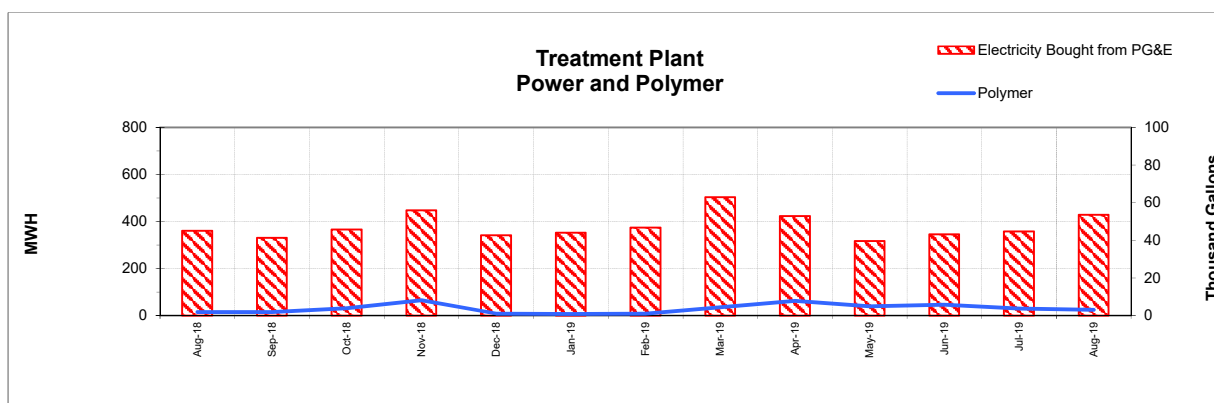
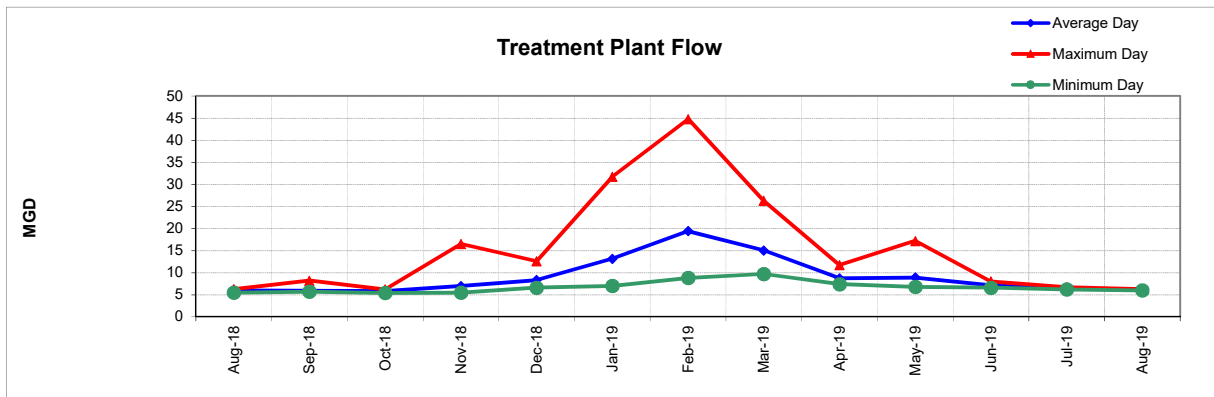
<i>Expenditures</i>	FY 19/20 Budget	Encumbrances	Expenditures to date	Committed to date	Remaining Balance	Percent Committed
Operating						
Salaries & Benefits	\$10,258,600	\$5,636	\$1,347,133	\$1,352,769	\$8,905,831	13.2%
Services & Supplies	6,281,650	1,503,017	832,445	2,335,462	3,946,188	37.2%
Taxes	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%
Total Operating:	\$30,075,950	\$1,508,653	\$5,850,566	\$7,359,218	\$22,716,732 (2)	24.5%
Capital						
Bldgs/Improvements & Equip	\$39,047,000	\$7,389,530	\$498,322	\$7,887,853	\$31,159,147 (3)	20.2%
Intrafund Transfers	5,178,000	-	1,423,476	1,423,476	3,754,524	27.5%
Total Capital :	\$44,225,000	\$7,389,530	\$1,921,798	\$9,311,329	\$34,913,671	21.1%
Grand Total Expenditures:	\$74,300,950	\$8,898,183	\$7,772,364	\$16,670,547	\$57,630,403	22.4%
<i>Revenues</i>	FY 19/20 Budget	Encumbrances	Revenues to date	Revenues posted to date	Unposted Revenue	Percent Posted
Operating						
Use of Money/Property	\$578,000		\$159,318	\$159,318	\$418,682	27.6%
Charges for Services	31,213,500		636,031	636,031	30,577,469	2.0%
Miscellaneous Revenues	60,000		7,363	7,363	52,637	12.3%
Donations/Contributions (Capital Labor)	-		14,841	14,841	(14,841) (4)	N/A
Total Operating:	\$31,851,500		\$817,554	\$817,554	\$31,033,946	2.6%
Capital						
Use of Money/Property	\$0		\$0	\$0	\$0	N/A
Capacity Charges	5,178,000		1,135,607	1,135,607	4,042,393	21.9%
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		1,423,476	1,423,476	12,654,524	10.1%
Total Capital:	\$34,702,600		\$2,560,187	\$2,560,187	\$32,142,413	7.4%
Grand Total Revenue:	\$66,554,100		\$3,377,741	\$3,377,741	\$63,176,359	5.1%

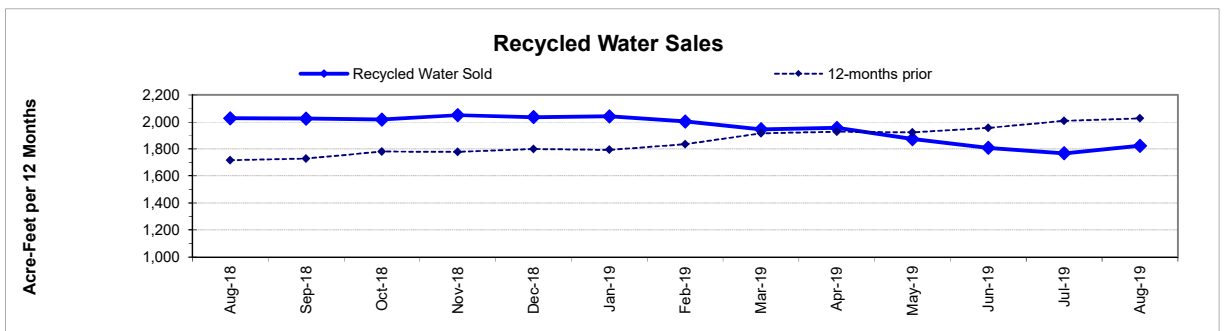
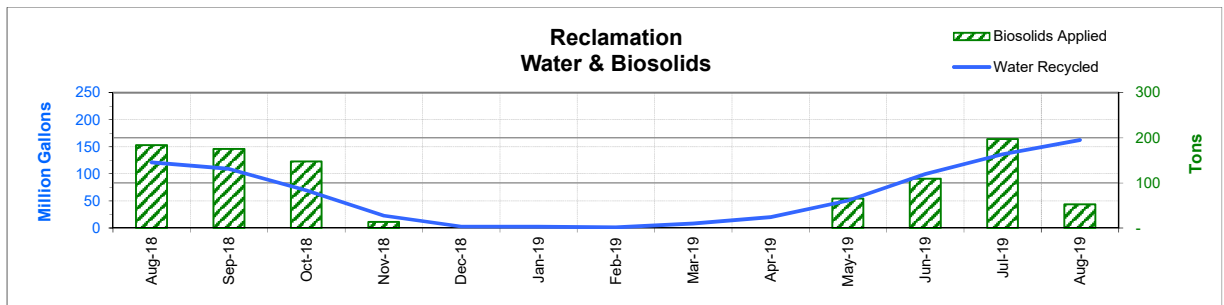
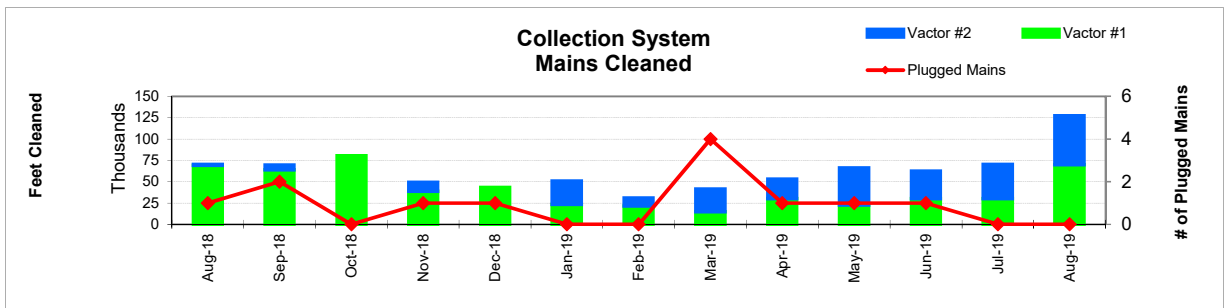
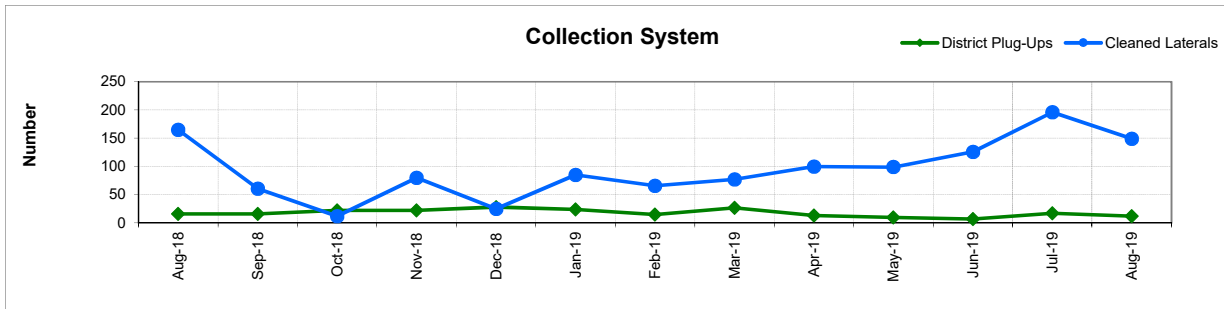
Cash on Hand as of 8/31/19 **\$19,009,907**

**excluding Debt Service restricted funds
8/31/19 -Effective Rate of Return = 3.62%

1. Series 2012A's and 2017's principal/interest payments are made in Jul & Feb
2. Includes Debt Service and Intrafund Transfers; otherwise is 22.2%
3. See Capital Project Status report for details
4. In-house Labor for Capital Projects (Contra acct for Salaries)







FUND BALANCES - MONTHLY

CATEGORY	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19
<i>(Thousand Dollars)</i>													
7800	9,123	9,204	8,951	11,888	19,772	18,473	18,394	16,405	24,793	24,164	23,784	17,246	748
7850	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Operating	9,123	9,204	8,951	11,888	19,772	18,473	18,394	16,405	24,793	24,164	23,784	17,246	748
Capital Improvement Projects	11,009	10,956	7,755	6,698	8,363	5,567	5,153	6,899	6,058	5,671	4,525	1,764	18,655
Debt Proceeds	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Capital	11,009	10,956	7,755	6,698	8,363	5,567	5,153	6,899	6,058	5,671	4,525	1,764	18,655
Total Discretionary Funds	20,132	20,160	16,706	18,586	28,135	24,040	23,547	23,304	30,851	29,835	28,309	19,010	19,403
Expansion Fund (Restricted)	-	-	-	-	-	-	-	-	-	93	-	-	-
Total Restricted Funds	-	-	-	-	-	-	-	-	-	93	-	-	-
TOTAL ALL FUNDS	20,132	20,160	16,706	18,586	28,135	24,040	23,547	23,304	30,851	29,928	28,309	19,010	19,403

DEVELOPMENT WORKLOAD - MONTHLY

CATEGORY	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19
<u>Phone Requests</u>													
Maps/Drawings	2	2	3	1	2	6	2	4	0	17	8	1	0
Lateral Permits	-	-	-	-	-	-	-	-	-	-	-	-	-
Policy Questions	10	4	6	3	6	8	7	5	5	10	6	8	1
Development Questions	63	28	70	41	44	40	35	48	53	79	64	43	29
Miscellaneous	24	26	20	18	25	27	18	25	29	29	18	25	16
TOTAL	99	60	99	63	77	81	62	82	87	135	96	77	46
<u>Counter Requests</u>													
Maps/Drawings	3	-	1	-	1	-	-	-	1	0	0	1	0
Lateral Permits	9	3	9	5	10	12	8	11	7	11	7	8	12
Policy Questions	3	-	2	-	1	-	-	3	4	0	0	0	0
Development Questions	9	5	6	6	5	10	9	13	10	7	10	3	4
Miscellaneous	2	2	0	-	1	1	-	-	0	2	0	0	1
TOTAL	26	10	18	11	18	23	17	27	22	20	17	12	17
<u>Initial Request (Referrals)</u>	17	16	21	20	15	18	14	16	24	20	9	14	16
<u>Connection Permits Issued</u>													
Residential Permits	16	9	1	1	2	-	4	5	2	6	3	2	14
Commercial Permits	5	1	-	2	-	1	-	1	2	3	1	6	1
Industrial Permits	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMITS	21	10	1	3	2	1	4	6	4	9	4	8	15
Residential Units	16	18	1	1	2	-	4	36	2	6	3	6	14
Commercial Units	8	1	-	2	-	1	-	1	2	3	1	2	1
TOTAL UNITS	24	19	1	3	2	1	4	37	4	9	4	8	15
<u>Annexations</u>													
Submitted	1	1	-	1	-	1	-	-	-	1	-	1	-
Acreage	11.60	5.79	-	158.20	-	4.90	-	-	-	0.50	-	16.04	-
<u>Plans Reviewed</u>													
<u>Subdivisions/Sites</u>													
First Submittal	18	9	10	10	9	2	5	6	5	14	8	7	8
Second Submittal	8	4	5	2	5	7	5	6	3	8	6	5	5
Third Submittal	3	4	2	1	1	1	5	3	4	10	5	5	1
<u>Building/Tenant Improvements</u>													
First Submittal	8	8	11	8	11	5	8	7	15	3	9	12	6
Second Submittal	6	1	5	6	-	4	2	5	2	3	4	4	1
Third Submittal	4	3	1	3	1	1	2	3	7	-	7	6	4
<u>Miscellaneous Plan Reviews</u>	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PLANS REVIEWED	47	29	34	30	27	20	27	30	36	38	39	39	25

INSPECTION WORKLOAD - MONTHLY

CATEGORY	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19
<u>CONSTRUCTION</u>													
Locating Sewers	1	-	-	1	2	4	-	-	-	-	-	-	-
Permit Processing	-	-	-	-	-	-	-	-	-	-	-	-	-
Preconstruction Meetings	1	3	-	1	3	-	-	3	5	7	2	5	11
Inspections - Mains	6	11	1	-	1	-	1	1	-	-	1	5	1
Inspections - Manholes	6	76	76	21	30	49	75	19	18	6	7	13	12
Inspections - Laterals	13	3	8	3	28	18	23	31	21	8	27	40	15
Inspections - Cleanouts	2	2	6	8	37	31	39	39	46	43	24	59	43
Inspections - Review Video	-	2	-	1	2	-	2	2	1	1	1	-	-
Demo - Septic Tanks	-	-	-	-	-	-	-	-	-	-	-	-	-
Demo - Buildings	-	-	-	-	-	-	2	-	-	-	-	-	-
Update Record Drawings	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	29	97	91	35	103	102	142	95	91	65	62	122	82
<u>MISCELLANEOUS</u>													
Meter Readings	-	-	-	1	10	26	4	-	4	14	-	-	-
Washdown Facility Inspections	-	-	-	-	-	-	-	-	-	-	-	-	-
General Customer Assistance	27	31	50	25	30	34	41	13	20	16	-	-	32
City of Napa Water Discharge	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	27	31	50	26	40	60	45	13	24	30	-	-	32
<u>SPECIAL PROJECTS</u>													
	23	35	36	19	0	7	7	21	20	21	40	25	22

POLLUTION PREVENTION WORKLOAD - MONTHLY

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

RECYCLED WATER DELIVERIES - MONTHLY

	Acres	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19
MONTHLY (MG)														
Water Sold														
Golf Courses	405.0	57.269	44.197	23.612	3.322	0.008	0.002	-	0.014	9.555	25.976	58.629	69.590	65.339
Cemeteries	57.1	4.920	4.142	3.239	2.872	0.690	0.380	-	0.273	1.494	3.671	3.658	5.515	5.659
Parks	18.5	0.846	0.527	0.050	0.611	-	0.002	-	-	0.020	0.263	0.843	0.939	1.219
Schools	21.0	2.044	1.571	1.231	0.745	0.060	0.098	0.043	0.041	0.251	0.988	1.655	2.196	1.712
Commerical	167.6	19.184	16.950	19.637	7.652	1.891	1.379	0.557	0.648	4.974	10.516	12.142	18.578	17.787
Vineyards	564.0	32.727	21.248	9.649	7.015	0.239	0.380	0.513	7.149	3.250	6.107	10.475	20.951	42.981
Trucked Water	175.0	0.637	0.399	0.289	0.403	0.033	0.007	0.020	0.017	0.110	0.421	0.533	1.293	1.374
Subtotal Sales	1,408.2	117.628	89.035	57.707	22.620	2.921	2.248	1.133	8.142	19.654	47.943	87.935	119.063	136.071
District Use														
Jameson	330.0	0.163	4.785	-	-	-	-	-	-	-	-	-	-	0.470
Somky	213.0	3.226	15.447	12.002	0.008	-	-	-	-	-	2.504	11.985	17.012	25.944
Fagundes/Airport	50.5	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal District	593.5	3.389	20.232	12.002	0.008	-	-	-	-	-	2.504	11.985	17.012	26.413
TOTAL DELIVERED	2,001.7	121.016	109.266	69.709	22.628	2.921	2.248	1.133	8.142	19.654	50.447	99.920	136.074	162.484
ANNUAL (AF)														
Water Sold														
Golf Courses	405.0	1,063	1,035	1,025	1,019	1,000	1,000	981	972	991	909	880	897	921
Cemeteries	57.1	58	69	76	84	86	88	88	88	91	93	93	95	97
Parks	18.5	14	14	13	15	15	15	15	15	15	13	13	13	14
Schools	21.0	37	37	36	38	38	38	38	37	37	35	33	34	33
Commerical	167.6	303	309	327	337	338	343	339	335	341	343	342	350	346
Vineyards	564.0	540	550	529	545	545	546	531	485	470	470	436	367	399
Trucked Water	175.0	11	12	12	13	13	13	13	13	11	11	11	13	15
Subtotal Sales	1,408.2	2,026	2,025	2,018	2,051	2,035	2,042	2,003	1,945	1,956	1,874	1,808	1,768	1,824
District Use														
Jameson	330.0	64	15	15	15	15	15	15	15	15	15	15	15	16
Somky	213.0	178	166	171	171	171	171	171	171	171	143	139	191	261
Fagundes/Airport	50.5	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal District	593.5	243	182	187	187	187	187	187	187	187	158	154	206	277
TOTAL DELIVERED	2,001.7	2,269	2,207	2,205	2,237	2,222	2,229	2,189	2,132	2,143	2,032	1,962	1,974	2,101

BIOSOLIDS HANDLING - MONTHLY

Site	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19
<u>Land Applied by NSD</u>													
Somky		175								65	109		
Airport/Fagundes													
Jameson Canyon	184		147	13	-	-	-	-	-	-	-	197	52
Subtotal by NSD	184	175	147	13	-	-	-	-	-	65	109	197	52
<u>Land Applied by Contractor</u>													
Somky													
Airport/Fagundes													
Jameson Canyon													
Subtotal by Contractor	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Land Applied	184	175	147	13	-	-	-	-	-	65	109	197	52
Off Site (Contractor)													
Total (tons)	184	175	147	13	-	-	-	-	-	65	109	197	52

COLLECTION SYSTEM MAINTENANCE - MONTHLY

CATEGORY	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19
Plugups													
Total Calls	39	53	57	64	77	70	43	46	43	46	40	45	46
Business Hours	28	32	36	34	44	47	39	21	23	28	31	33	30
After Hours	11	21	21	30	33	23	4	25	20	18	9	12	16
District's	16	16	22	22	28	24	15	27	13	10	7	17	12
Property Owner's	23	36	35	41	49	46	28	20	30	35	32	26	34
Plugged Main Lines	1	2	-	1	1	-	-	4	1	1	1	-	-
Run Lateral w/Eel	165	61	12	80	25	85	66	77	100	99	126	196	149
Cleaning (feet of sewer)													
Vactor #1	69,132	63,968	80,207	38,882	43,194	23,544	21,454	14,808	30,224	22,498	30,232	30,283	69,780
Vactor #2	1,072	5,367	-	10,373	-	27,335	9,420	26,687	22,691	43,466	32,180	39,800	57,405
Hydro													
Rodder													
Total (feet)	70,204	69,335	80,207	49,254	43,194	50,879	30,875	41,495	52,916	65,964	62,412	70,083	127,185
Cleaning Days													
Vactor #1	21	19	22	17	19	13	10	6	13	10	12	12	18
Vactor #2	1	3	-	3		7	6	15	8	19	15	16	21
Hydro													
Rodder													
Feet/day													
Vactor #1	3,200	3,150	3,650	2,450	2,250	2,550	1,950	2,000	2,500	2,250	2,300	2,500	3,250
Vactor #2	3,300	3,350	3,650	2,300	2,250	1,800	2,150	2,450	2,300	2,250	2,500	2,500	3,900
Vactor #2	1,050	1,800		3,450		3,900	1,550	1,800	2,850	2,300	2,150	2,500	2,750
Hydro													
Rodder													
Video Inspections													
Mains (feet)	27,761	18,443	31,889	17,526	12,509	14,335	5,812	13,050	15,089	24,716	23,914	32,551	40,819
Laterals (each)	234	232	297	201	138	175	133	144	204	173	177	254	214
Construction (each)													
Cleanouts	25	6	5	50	1	18	3	17	15	12	24	15	17
Laterals	8	8	4	4	15	6	3	3	4	13	12	14	16
Mains			1		-	-		1				-	-
Manholes	2	1	1		-	-		1				-	2
Other													
USA Markings													
Regular (w/in 2 days)	296	286	378	159	159	171	224	338	327	338	292	378	363
Emergency (w/in 2 hours)	12	15	15	32	12	24	15	22	20	20	24	21	28

WASTEWATER PLANT OPERATIONS DATA - MONTHLY

CATEGORY	Units	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19
FLOWES		31	30	31	30	31	31	28	31	30	31	30	31	31
Influent	MG	186.1	176.1	180.0	208.8	257.6	407.2	542.7	465.3	261.4	275.4	213.6	199.3	192.5
Average Day	MGD	6.0	5.9	5.8	7.0	8.3	13.1	19.4	15.0	8.7	8.9	7.1	6.4	6.2
Maximum Day	Date	19-Aug	16-Sep	2-Oct	29-Nov	1-Dec	17-Jan	14-Feb	6-Mar	1-Apr	19-May	1-Jun	2-Jul	29-Aug
Maximum Day Flow	MG	6.3	8.2	6.2	16.5	12.6	31.7	44.8	26.3	11.7	17.2	8.0	6.7	6.3
Minimum Day	Date	22-Aug	21-Sep	31-Oct	1-Nov	13-Dec	3-Jan	1-Feb	19-Mar	30-Apr	14-May	27-Jun	24-Jul	6-Jan
Minimum Day Flow	MG	5.5	5.7	5.4	5.5	6.6	7.0	8.8	9.7	7.4	6.8	6.6	6.2	6.0
Effluent	MG	124.4	104.7	68.1	289.9	384.2	497.1	507.1	618.1	455.7	55.5	108.7	128.8	167.8
River Discharge	MG	-	-	-	263.8	378.9	491.6	507.1	618.1	424.4	-	-	-	-
Recycled Flow	MG	124.4	104.7	68.1	26.1	5.2	5.5	-	8.5	25.4	55.5	108.7	128.8	167.8
BIOSOLIDS	Tons	775	943	745	572	767	700	451	413	575	493	506	624	830
Wet Tons Generated from Pond	Tons													
Wet Tons Generated from Plant	Tons	775	943	745	572	767	700	451	413	575	493	506	624	830
% Solids Liquid	%													
% Solids Cake	%													
% Solids Land Application	%													
Wet Tons Hauled Offsite	Tons													
POLYMER USE	Gallons	1,936	1,915	4,044	8,169	1,155	868	1,046	4,557	7,851	5,053	5,921	3,745	3,153
Pond Pre-Flocculators	Gallons	-	-	59	2,293	-	-	-	2,668	4,704	288	224	494	326
Flocculator Polymer 1	Gallons	-	-	-	-	-	-	-	-	-	-	-	-	-
Flocculator Polymer 2	Gallons	-	-	34	784	294	-	-	974	755	79	-	119	61
Filter Polymer 1	Gallons	1,361	1,259	2,944	4,503		178	404	460	1,584	4,100	5,102	2,499	1,963
Filter Polymer 2	Gallons	-	-	-	-		-	-	-	-	-	-	-	-
Belt Presses	Gallons	575	656	1,007	589	788	690	642	455	808	586	595	633	803
ENERGY														
Total Electricity Used	MWH	798	765	714	785	684	663	670	864	840	779	827	842	739
Purchased from PGE	MWH	361	331	366	448	342	353	374	504	423	317	346	358	429
Produced from Co-Gen	MWH	258	272	249	254	265	235	207	215	244	284	270	267	269
Percent Produced	%	32%	36%	35%	32%	39%	35%	31%	25%	29%	36%	33%	32%	36%
Purchased from Solar	MWH	179	162	99	83	77	75	89	145	173	178	211	217	200
Percent Produced		22%	21%	14%	11%	11%	11%	13%	17%	21%	23%	25%	26%	27%
Purchased Natural Gas	Therms	1,237	1,124	1,461	1,912	1,560	2,147	1,789	2,299	1,558	1,475	1,448	1,727	1,979
Methane Flared Off	KSCF	259	391	507	192	266	34	7	14	130	164	324	282	251
Stand By Calls	#	71	40	75	133	55	71	75	52	26	80	67	64	50
Violations	#	-	-	-	-	-	-	-	-	-	-	-	-	-

WASTEWATER PLANT MAINTENANCE and LABORATORY DATA - MONTHLY

CATEGORY	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19
<u>Scheduled</u>													
Old	13	31	20	21	10	6	5	11	10	15	25	31	7
New	87	83	104	78	97	100	82	92	109	89	95	96	85
Completed	69	94	103	89	101	101	76	93	104	79	89	120	84
New Balance	31	20	21	10	6	5	11	10	15	25	31	7	8
<u>Unscheduled</u>													
Old	29	38	32	36	30	24	23	23	23	22	21	18	22
New	30	11	38	17	13	19	12	20	15	31	17	32	28
Completed	21	17	34	23	19	20	12	20	16	32	20	28	29
New Balance	38	32	36	30	24	23	23	23	22	21	18	22	21
<u>Total Work Orders</u>													
Old	42	69	52	57	40	30	28	34	33	120	46	49	29
New	117	94	142	95	110	119	94	112	124	11	112	128	113
Completed	90	111	137	112	120	120	88	112	120	46	109	150	113
New Balance	69	52	57	40	30	28	34	33	37	46	49	29	29
<u>LAB ANALYSES</u>													
<u>Sample Type</u>													
Regulatory	182	132	129	195	175	169	117	164	155	190	138	129	149
Process Control	890	926	486	1,154	1,087	1,155	1,111	1,199	1,195	760	770	869	838
Special Request	-	-	13	-	2	-	8	2	-	1	15	1	22
Quality Control/Assurance	622	401	328	1,128	705	776	639	754	1,447	812	539	632	600
TOTAL	1,694	1,459	956	2,477	1,969	2,100	1,875	2,119	2,797	1,763	1,462	1,631	1,609

**Summary of NSD Capital Project Status
through 08-31-19**

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
	<u>COLLECTION SYSTEM - PROJECTS</u>								
13701	Main Line Sewer Rehabilitation	60,000			60,000	-	-	60,000	-
13702	Manhole Raising/Rehabilitation	332,600			332,600	-	1,533	331,067	0%
13703	Lateral Replacement/Rehabilitation	110,000			110,000	10,485	29,749	69,765	27%
13704	Cleanouts Installation/Rehabilitation	107,000			107,000	-	14,039	92,961	13%
13705	Inflow & Infiltration (I&I) Reduction Program	221,700			221,700	92,852	10,545	118,303	5%
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	340,497	48,359	54,693	11%
18703	Upper Lateral Rehab - Basin L (Pilot) #3	166,300	3,200		169,500	-	1,806	167,694	1%
18706	Sewer System Inflow/Infiltration 2019	3,538,100	313,850		3,851,950	2,500,000	28,233	1,323,717	1%
19701	66-inch Trunk Rehabilitation (Kaiser to IPS)	4,000,000	450,000		4,450,000	439,233	2,479	4,008,288	0%
19703	2020 Collection System Rehabilitation	3,169,600	9,800		3,179,400	-	9,802	3,169,598	0%
19727	Collection System Master Plan	1,071,200	632,350		1,703,550	469,586	45,346	1,188,618	3%
20701	Upper Lateral Rehab - Pilot #5	5,000			5,000	-	50	4,950	1%
20702	Manhole Rehabilitation	250,000			250,000	-	1,278	248,722	1%
20703	2021 Collection System Rehabilitation	20,000			20,000	-	-	20,000	-
	<u>COLLECTION SYSTEM - EQUIPMENT</u>								
20704	Locatable Mini-Camera #3 Replacement	11,900			11,900	-	-	11,900	-
20705	Eel Replacement #2	5,900			5,900	-	-	5,900	-
	<u>COLLECTION SYSTEM - LIFT STATIONS</u>								
17711	West Napa PS - Rehab	5,500,000			5,500,000	233,922	2,569	5,263,509	0%
19705	Stonecrest PS Pump Rebuild	-	40,100		40,100	19,212	5,894	14,994	15%
	<u>TREATMENT - PROJECTS</u>								
13745	Pond 1 Dredge	2,100,000	237,150		2,337,150	-	1,673	2,335,477	0%
18736	Treatment Plant Project 2018	-	15,000		15,000	10,901	69	4,030	0%
18740	Treatment Plant Project 2019	600,000	672,700		1,272,700	1,161,481	58,441	52,778	5%
19717	WWTP MP - Pond Transfer Structures 2 to 3	-	259,700		259,700	-	12,730	246,970	5%
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	559	1,399,791	0%

**Summary of NSD Capital Project Status
through 08-31-19**

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
	<u>TREATMENT - EQUIPMENT</u>								
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	130,245	21,319	814,736	2%
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	2,915	173,161	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	-	110	295,490	0%
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	-	72	119,078	0%
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	-
	<u>LAB - EQUIPMENT</u>								
20720	Lab - Sampler 4700 Replacement (2)	20,000			20,000	-	-	20,000	-
	<u>SCADA</u>								

**Summary of NSD Capital Project Status
through 08-31-19**

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
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	298	51,474	0%
	<u>RECYCLING - PROJECTS</u>								
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	195,936	150,044	98,420	34%
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	-	554	59,446	1%
						-			
	<u>RECYCLING - EQUIPMENT</u>					-			
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	-
	<u>OTHER</u>							-	-
13729	Development Technical Support	337,000			337,000	-	44,155	292,845	13%
19723	AV System Replacement - Conference Rooms	-	20,000		20,000	-	-	20,000	-
19725	Vehicle 011 - CSET Trailer	-	7,100		7,100	-	2,209	4,891	31%
		\$33,873,300	\$5,173,700	-	\$39,047,000	\$7,389,530	\$498,322	\$31,159,145	1%