



Napa Sanitation District

General Manager's Report

for

December, 2019

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DATE: February 5, 2020
FROM: Timothy B. Healy, General Manager
SUBJECT: General Manager's Report for December 2019

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, 2019 – December 31, 2019
Percent Fiscal Year:	50.0%
Operating Expenditures to date:	39.5%
Historical Expenditures to date:	53.2%
Significant Comments:	Sewer service charges were received from the first installment payments of the property taxes in December. The second installment will be due in April 2019.

In prior years, typically an intrafund transfer from Operating to Capital is done for cash flow purposes. As a result of some yearend accounting adjustments last fiscal year, the Capital Fund has had sufficient funds for this fiscal year, and a intrafund transfer had not been needed. This causes a lower than average Operating Expenditures to date in comparison to the Historical Expenditures to date.

PERSONNEL:

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

New Hires:	None
Separations:	Sean Warner, Collection System Technician, resigned; Steve Edwards, Plant Attendant, retired
Promotions:	Jordan Dunn promoted to Collection System Technician

Recruitment Activities: Recruitment for Plant Attendant position and job offer for
Collection System Worker-in-Training

Injuries: None

COLLECTIONS:

Significant events for the month of December 2019 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 1 cleanouts and repaired 3. They also repaired 3 lateral and lined 7 laterals. Additionally, the service response/programs crew completed 126 work orders in support of the grease and odor control program, responded to 61 customer requests for service (17 were NSD problem) and closed out 311 mark and locate request tickets.
- The preventative maintenance crews ran work orders on 104 laterals, cleaned approximately 61,887.6 feet of main line and CCTV inspected 18 laterals. In addition, the CCTV truck televised 0 feet of mainline.

TREATMENT PLANT:

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

Plant Operations:

- For December 2019, the plant's influent flow was 281.6 MG as compared to last year flow for December 2018 of 257.6 MG
- There was 2.93" rainfall for December 2019 (Carneros Rainfall Center) as compared to 1.83" rainfall for December 2018.
- Pond 4 end of the month recorded level reading was 36.74".

Power Consumption and Production:

- December power purchased from PG&E was 485 MWH in comparison to December 2018 purchase of 342 MWH.
- Cogeneration unit ran 704 of 744 hours for the month – 94.62% uptime, averaging 341.46 Kw, producing 274 MWH of energy.
- Solar generation in December was 62 MWH, compared to 98 MWH in November and 77 MWH in November 2018.

Maintenance:

Significant events for the month of December 2019:

Process Maintenance

- Cogeneration unit monthly emission test - in compliance with BAAQMD permit
- Cogen Service;
 - Adjusted valve clearance
 - Borescope cylinders
 - Replaced gaskets on inspection covers
 - Rebuilt water pump
 - Replaced admission valves
- Replaced lower RTD for flare
- Flow meter annual calibrations
- Gas compressor/replaced cooling water solenoid
- Replaced boiler gas valve
- Headworks exhaust fan 101/replaced motor
- Recycle load out station/replaced AI module
- SB-1/replaced DI module

Projects

- Replaced SBS interior and exterior pipe trace heating and insulation
- Sodium Bisulfite tank fill station/replaced piping, strainer, valve and cam lock fittings

Standby Power

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

Influent Pumps

- All pumps operational

Laboratory:

Effluent (EFF-001) Summary

There were no violations of **Effluent** limits during the month of December, 2019. All parameters were monitored at the required frequencies. The following were notable sampling events:

- December 3, 2019: Mercury, Metals, Cyanide, Nutrients
- December 3-7, 2019: Acute Toxicity Bioassay
- December 11, 20, 2019: Nutrients

Influent (INF-001) Summary

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

- December 3, 2019: Metals, Mercury, Cyanide
- December 4, 2019: VOC, BNA

RECYCLING:

Significant events in the Recycling Department for December 2019 include:

- Recycled water delivered for the month of December 2019 was (18.567 million gallons), as compared to December 2018 (2.921 million gallons) is higher from the previous year due to vineyard irrigation reservoir filling. Delivered recycled water volume represents the sum of all use site flow meter consumption values.
- Staff ceased land application of biosolids and commenced encapsulating biosolids at the Jameson Reuse site.

POLLUTION PREVENTION:

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

- There were no tours or presentations given in December.
- The total amount of medication collected in December was 44 pounds. The total amount of unneeded medications collected since the drug takeback program began in September 2010 is 22,118.2 pounds.
- There were no ESME Washer Rebates issued this month.

ENGINEERING / CAPITAL PROJECTS / DEVELOPMENT:

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

- Consultant continued work on the SCADA Master Plan.
- Consultants and staff continued work on the CMMS implementation.
- Staff issued Notice Inviting Bids for 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.
- The construction contract for the 2020 Collection System Rehabilitation Project was awarded.
- Consultant continued design of the 66-inch Trunk Sewer Rehabilitation Project.
- Contractor began construction of the 2019 Manhole Rehabilitation Project.

- Contractor continued construction of the Sanitary Sewer Manhole Adjustment Project, Phase IX.
- The construction contract for the Primary Clarifier Rehabilitation Project was awarded.
- Consultant continued work on the SWRF Buried Metallic Piping Condition Assessment Project.
- Consultant began work on the SWRF 12kV Condition Assessment Project.
- Staff issued Notice Inviting Bids for the Browns Valley Trunk Project.
- Staff issued Notice Inviting Bids for the West Napa Pump Station Project.
- Contractor continued construction of the 2019 Treatment Plant Improvements Project.
- Consultant continued working on the Collection System Master Plan.
- Staff reviewed 46 sets of development plans and deemed 19 sets of plans complete. The approved plans consisted of 7 tenant improvements, 10 residential dwellings, and 2 recycled water laterals.

Budget Status & Cash Summary - July 1, 2019 - December 31, 2019 (50.0% of the year)

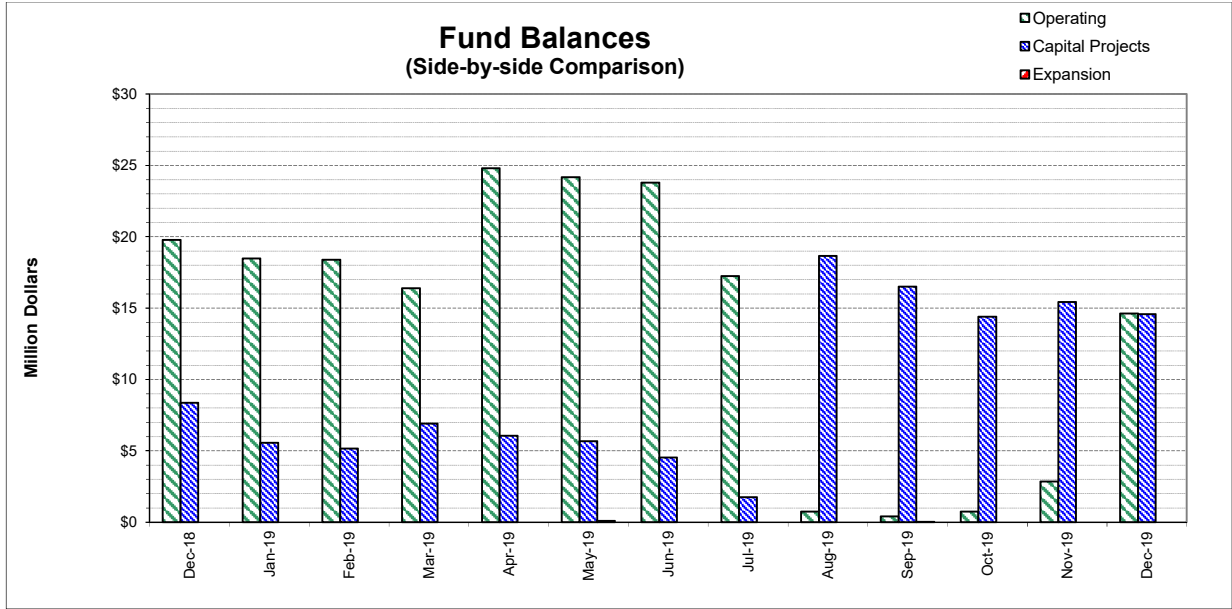
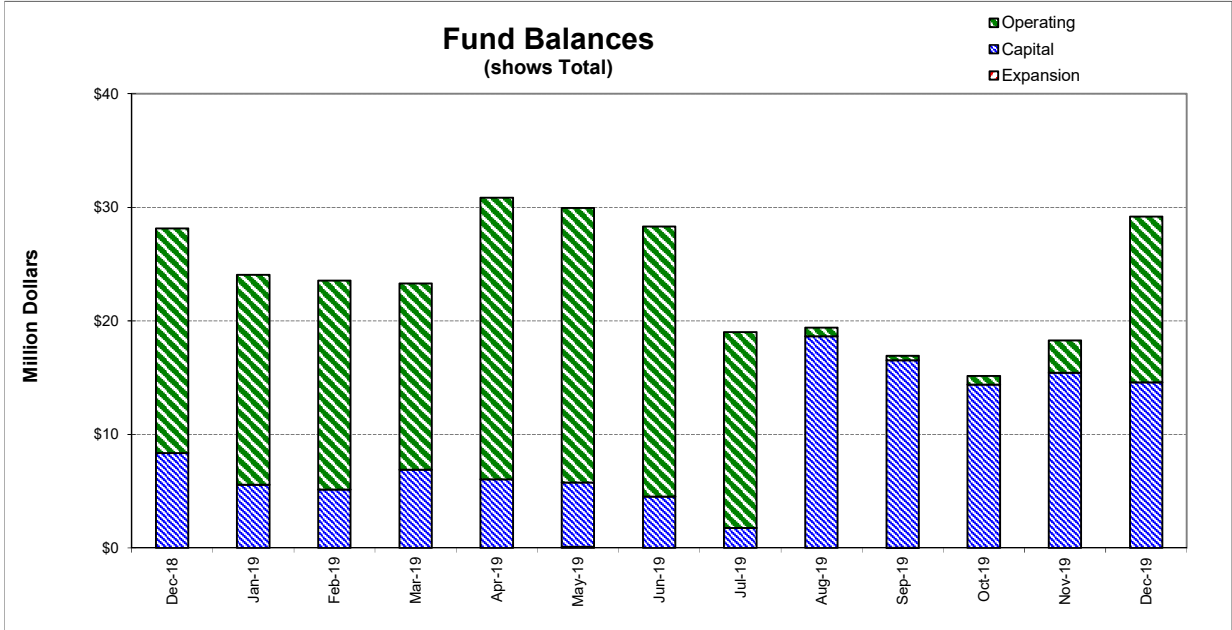
<i>Expenditures</i>	FY 19/20 Budget	Encumbrances	Expenditures to date	Committed to date	Remaining Balance	Percent Committed
Operating						
Salaries & Benefits	\$10,258,600	\$2,620	\$4,593,425	\$4,596,045	\$5,662,555	44.8%
Services & Supplies	6,281,650	1,109,990	2,423,572	3,533,561	2,748,089	56.3%
Taxes	41,800	-	15,271	15,271	26,529	36.5%
Debt Service	4,593,900	-	3,739,834	3,739,834	854,066 ^①	81.4%
Intrafund Transfers	8,900,000	-	-	-	8,900,000	0.0%
Total Operating:	\$30,075,950	\$1,112,609	\$10,772,102	\$11,884,711	\$18,191,239	39.5% ^②
Capital						
Bldgs/Improvements & Equip	\$39,047,000	\$2,848,336	\$6,237,559	\$9,085,895	\$29,961,105 ^③	23.3%
Intrafund Transfers	5,178,000	-	3,044,280	3,044,280	2,133,720	58.8%
Total Capital :	\$44,225,000	\$2,848,336	\$9,281,839	\$12,130,175	\$32,094,825	27.4%
Grand Total Expenditures:	\$74,300,950	\$3,960,945	\$20,053,941	\$24,014,886	\$50,286,064	32.3%

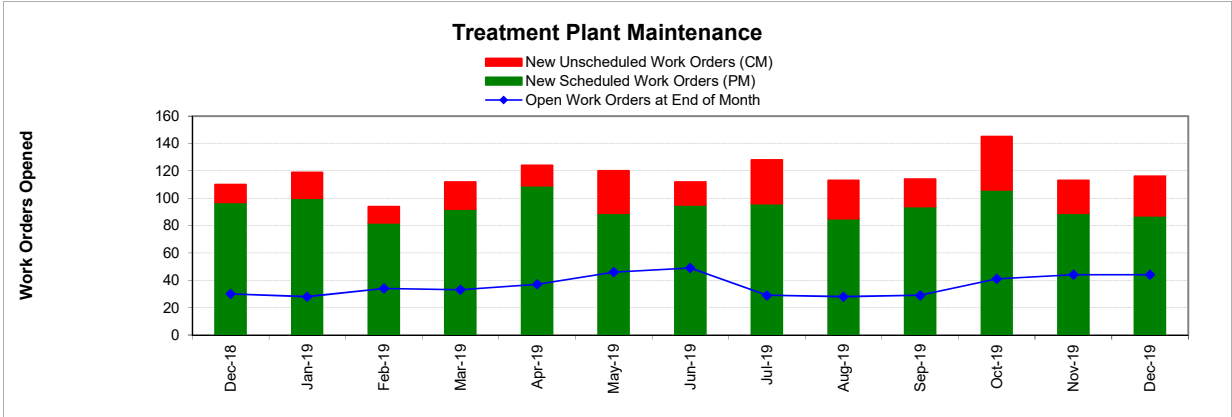
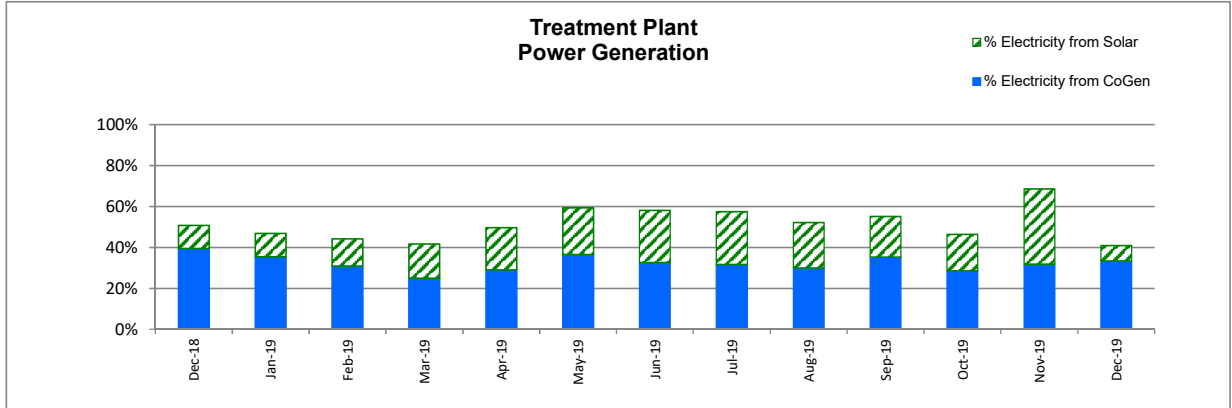
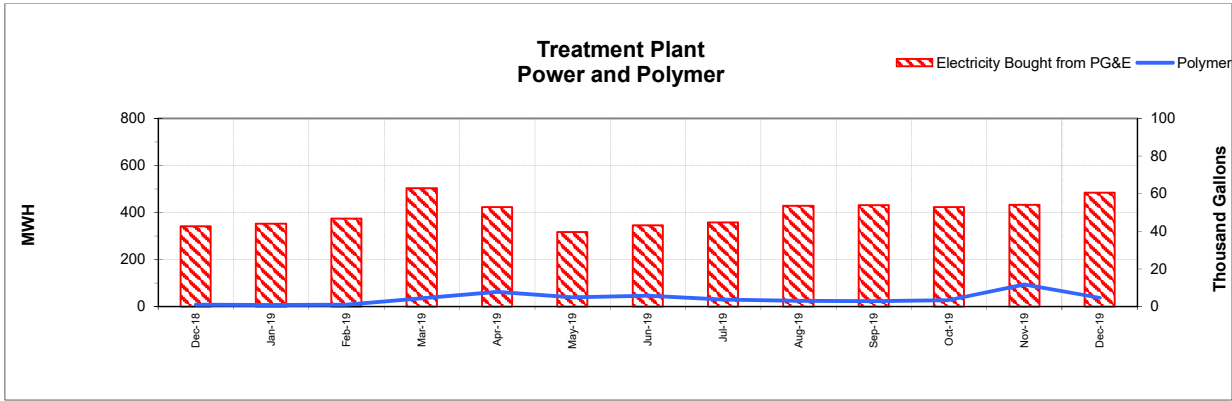
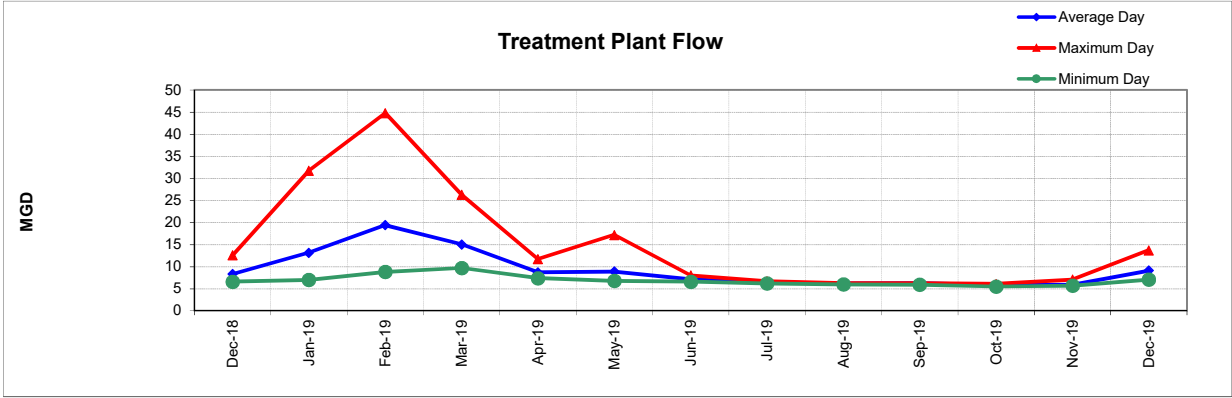
<i>Revenues</i>	FY 19/20 Budget	Encumbrances	Revenues to date	Revenues posted to date	Unposted Revenue	Percent Posted
Operating						
Use of Money/Property	\$578,000		\$633,469	\$633,469	(\$55,469)	109.6%
Charges for Services	31,213,500		17,851,568	17,851,568	13,361,932	57.2%
Miscellaneous Revenues	60,000		30,737	30,737	29,263	51.2%
Donations/Contributions (Capital Labor)	-		388,221	388,221	(388,221) ^④	N/A
Total Operating:	\$31,851,500		\$18,903,995	\$18,903,995	\$12,947,505	59.4%
Capital						
Use of Money/Property	\$0		\$3,553	\$3,553	(\$3,553)	N/A
Capacity Charges	5,178,000		2,906,159	2,906,159	2,271,841	56.1%
Bond/Loan Proceeds	15,416,600		-	-	15,416,600 ^⑤	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		3,069,068	3,069,068	11,008,932	21.8%
Total Capital:	\$34,702,600		\$6,260,221	\$6,260,221	\$28,442,379	18.0%
Grand Total Revenue:	\$66,554,100		\$25,164,216	\$25,164,216	\$41,389,884	37.8%

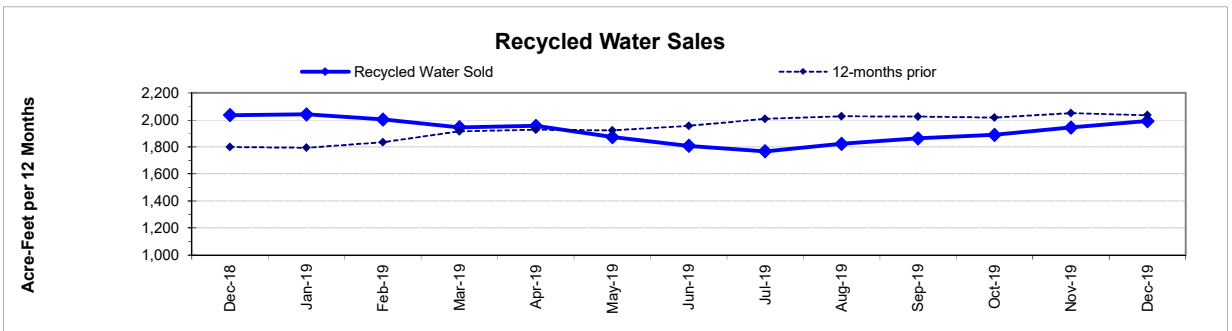
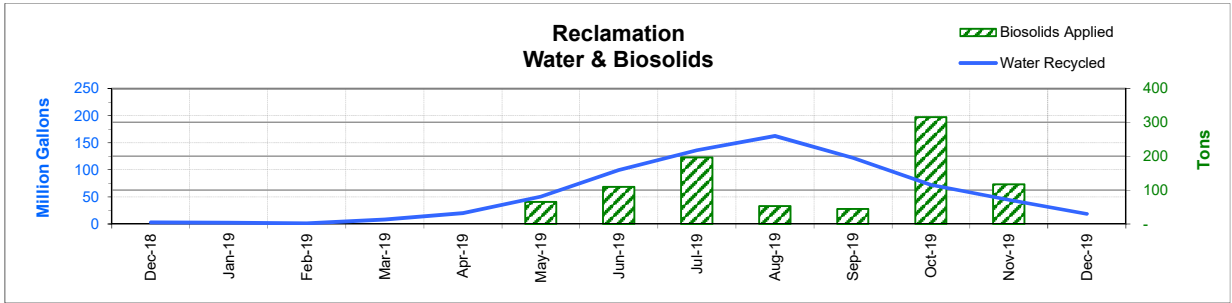
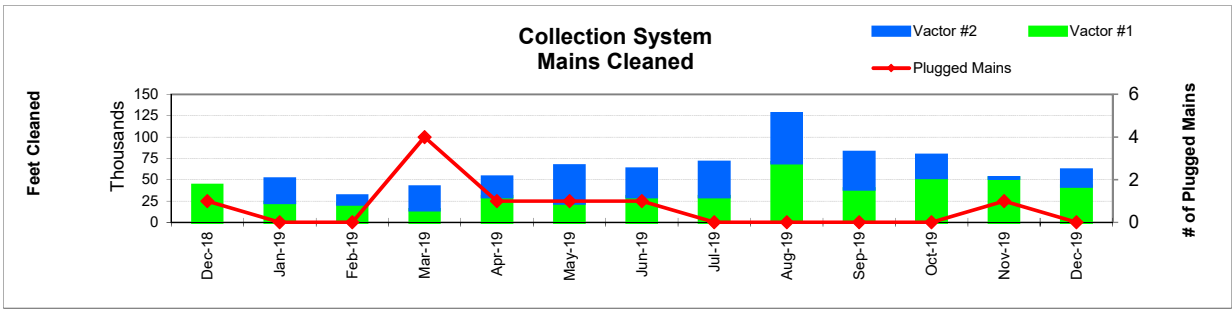
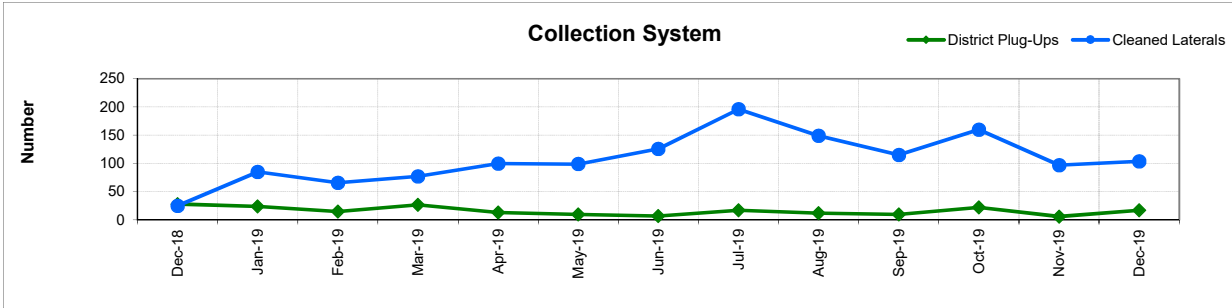
Cash on Hand as of 12/31/19 **\$29,195,332**

**excluding Debt Service restricted funds
12/31/19 -Effective Rate of Return = 2.07%

1. Series 2012A's and 2017's principal/interest payments are made in Jul & Feb
2. Includes Debt Service and Intrafund Transfers; otherwise is 49.1%
3. See Capital Project Status report for details
4. In-house Labor for Capital Projects (Contra acct for Salaries)
5. Expect to receive some proceeds of SRF Loan for BVT and WNPS Projects at the end of fy.







FUND BALANCES - MONTHLY

CATEGORY	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19
<i>(Thousand Dollars)</i>													
7800	19,772	18,473	18,394	16,405	24,793	24,164	23,784	17,246	748	415	753	2,858	14,616
7850	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Operating	19,772	18,473	18,394	16,405	24,793	24,164	23,784	17,246	748	415	753	2,858	14,616
Capital Improvement Projects	8,363	5,567	5,153	6,899	6,058	5,671	4,525	1,764	18,655	16,516	14,400	15,430	14,579
Debt Proceeds	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Capital	8,363	5,567	5,153	6,899	6,058	5,671	4,525	1,764	18,655	16,516	14,400	15,430	14,579
Total Discretionary Funds	28,135	24,040	23,547	23,304	30,851	29,835	28,309	19,010	19,403	16,931	15,153	18,288	29,195
Expansion Fund (Restricted)	-	-	-	-	-	93	-	-	-	2	-	-	-
Total Restricted Funds	-	-	-	-	-	93	-	-	-	2	-	-	-
TOTAL ALL FUNDS	28,135	24,040	23,547	23,304	30,851	29,928	28,309	19,010	19,403	16,933	15,153	18,288	29,195

DEVELOPMENT WORKLOAD - MONTHLY

CATEGORY	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19
<u>Phone Requests</u>													
Maps/Drawings	2	6	2	4	-	17	8	1	-	4	-	11	4
Lateral Permits	-	-	-	-	-	-	-	-	-	-	-	-	-
Policy Questions	6	8	7	5	5	10	6	8	1	4	2	2	-
Development Questions	44	40	35	48	53	79	64	43	29	38	32	40	29
Miscellaneous	25	27	18	25	29	29	18	25	16	18	29	13	24
TOTAL	77	81	62	82	87	135	96	77	46	64	63	66	57
<u>Counter Requests</u>													
Maps/Drawings	1	-	-	-	1	-	-	1	-	-	1	-	-
Lateral Permits	10	12	8	11	7	11	7	8	12	13	7	7	-
Policy Questions	1	-	-	3	4	-	-	-	-	-	-	1	-
Development Questions	5	10	9	13	10	7	10	3	4	13	4	7	7
Miscellaneous	1	1	-	-	0	2	0	0	1	0	-	-	-
TOTAL	18	23	17	27	22	20	17	12	17	26	12	15	7
<u>Initial Request (Referrals)</u>	15	18	14	16	24	20	9	14	16	13	13	11	9
<u>Connection Permits Issued</u>													
Residential Permits	2	-	4	5	2	6	3	2	14	2	5	3	0
Commercial Permits	-	1	-	1	2	3	1	6	1	2	1	3	1
Industrial Permits	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMITS	2	1	4	6	4	9	4	8	15	4	6	6	1
Residential Units	2	-	4	36	2	6	3	6	14	2	22	5	0
Commercial Units	-	1	-	1	2	3	1	2	1	2	1	133	1
TOTAL UNITS	2	1	4	37	4	9	4	8	15	4	23	138	1
<u>Annexations</u>													
Submitted	-	1	-	-	-	1	-	1	-	-	1	-	-
Acreage	-	4.90	-	-	-	0.50	-	16.04	-	-	44.84	-	-
<u>Plans Reviewed</u>													
<u>Subdivisions/Sites</u>													
First Submittal	9	2	5	6	5	14	8	7	8	8	5	8	24
Second Submittal	5	7	5	6	3	8	6	5	5	2	2	6	6
Third Submittal	1	1	5	3	4	10	5	5	1	3	7	3	6
<u>Building/Tenant Improvements</u>													
First Submittal	11	5	8	7	15	3	9	12	6	6	13	4	3
Second Submittal	-	4	2	5	2	3	4	4	1	4	5	1	4
Third Submittal	1	1	2	3	7	-	7	6	4	3	7	5	3
<u>Miscellaneous Plan Reviews</u>													
TOTAL PLANS REVIEWED	27	20	27	30	36	38	39	39	25	26	39	27	46

INSPECTION WORKLOAD - MONTHLY

CATEGORY	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19
<u>CONSTRUCTION</u>													
Locating Sewers	2	4	-	-	-	-	-	-	-	-	-	-	-
Permit Processing	-	-	-	-	-	-	-	-	-	-	-	-	-
Preconstruction Meetings	3	-	-	3	5	7	2	5	11	4	6	1	2
Inspections - Mains	1	-	1	1	-	-	1	5	1	11	-	1	-
Inspections - Manholes	30	49	75	19	18	6	7	13	12	77	1	6	3
Inspections - Laterals	28	18	23	31	21	8	27	40	15	5	12	22	10
Inspections - Cleanouts	37	31	39	39	46	43	24	59	43	7	54	33	44
Inspections - Review Video	2	-	2	2	1	1	1	-	-	2	-	1	-
Demo - Septic Tanks	-	-	-	-	-	-	-	-	-	-	-	-	-
Demo - Buildings	-	-	2	-	-	-	-	-	-	-	-	-	-
Update Record Drawings	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	103	102	142	95	91	65	62	122	82	106	73	64	59
<u>MISCELLANEOUS</u>													
Meter Readings	10	26	4	-	4	14	-	-	-	-	-	-	-
Washdown Facility Inspections	-	-	-	-	-	-	-	-	-	-	-	-	-
General Customer Assistance	30	34	41	13	20	16	-	-	32	31	12	12	-
City of Napa Water Discharge	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	40	60	45	13	24	30	-	-	32	31	12	12	-
<u>SPECIAL PROJECTS</u>	0	7	7	21	20	21	40	25	22	35	23	19	30

POLLUTION PREVENTION WORKLOAD - MONTHLY

CATEGORY	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19
<u>Outreach Activities</u>													
Plant Tours Conducted	1	2	6	1	10	1	6	1	0	0	2	5	0
Presentations Made	0	1	0	2	3	1	2	0	0	0	5	7	0
Total Outreach Activities	1	3	6	3	13	2	8	1	-	-	7	12	-
<u>Inspections Conducted</u>													
Food Service Facilities	1	22	41	26	47	21	-	-	1	-	-	-	1
Auto Body & Car Wash	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Inspections	1	22	41	26	47	21	-	-	1	-	-	-	1
<u>Compliance Issues</u>													
NOVs Issued	-	1	1	1	1	2	1	-	1	1	1	3	-
NOEs Issued	-	-	1	-	-	-	-	-	-	-	-	1	-
Non-Compliant-FOG	-	1	-	-	-	-	-	-	-	-	-	-	-
Total Compliance Issues	-	2	2	1	1	2	1	-	1	1	1	4	-
<u>Pollution Prevention</u>													
Clothes Washer Rebates	23	6	8	-	19	-	2	-	-	-	-	-	-
Toilet Retrofit Rebates	-	-	-	-	-	-	-	-	-	-	-	-	-
Pharmaceuticals Diverted (in lbs)	-	124	-	102	-	45	73	132	-	-	77	-	44

RECYCLED WATER DELIVERIES - MONTHLY

	Acres	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19
MONTHLY (MG)														
Water Sold														
Golf Courses	638.0	0.008	0.002	-	0.014	9.555	#####	#####	#####	#####	#####	#####	#####	0.007
Cemeteries	57.1	0.690	0.380	-	0.273	1.494	3.671	3.658	5.515	5.659	4.822	4.061	3.028	0.250
Parks	18.5	-	0.002	-	-	0.020	0.263	0.843	0.939	1.219	1.111	0.615	0.028	-
Schools	12.6	0.060	0.098	0.043	0.041	0.251	0.988	1.655	2.196	1.712	1.635	1.312	0.792	0.085
Commerical	166.5	1.891	1.379	0.557	0.648	4.974	#####	#####	#####	#####	#####	#####	#####	2.254
Vineyards	3,442.0	0.239	0.380	0.513	7.149	3.250	6.107	#####	#####	#####	#####	#####	7.027	#####
Trucked Water	175.0	0.033	0.007	0.020	0.017	0.110	0.421	0.533	1.293	1.374	1.425	1.401	1.097	0.476
Subtotal Sales	4,509.6	2.921	2.248	1.133	8.142	19.654	47.943	87.935	119.063	136.071	101.920	66.409	40.073	18.567
District Use														
Jameson	330.0	-	-	-	-	-	-	-	-	0.470	-	-	-	-
Somky	213.0	-	-	-	-	-	2.504	#####	#####	#####	#####	6.391	4.513	-
Fagundes/Airport	50.5	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal District	593.5	-	-	-	-	-	2.504	11.985	17.012	26.413	20.394	6.391	4.513	-
TOTAL DELIVERED	5,103.1	2.921	2.248	1.133	8.142	19.654	50.447	99.920	136.074	162.484	122.314	72.800	44.586	18.567
ANNUAL (AF)														
Water Sold														
Golf Courses	638.0	1,000	1,000	981	972	991	909	880	897	921	939	963	1,003	1,003
Cemeteries	57.1	86	88	88	88	91	93	93	95	97	99	102	102	101
Parks	18.5	15	15	15	15	15	13	13	13	14	16	17	15	15
Schools	12.6	38	38	38	37	37	35	33	34	33	33	33	33	33
Commerical	166.5	338	343	339	335	341	343	342	350	346	342	323	336	337
Vineyards	3,442.0	545	546	531	485	470	470	436	367	399	418	431	431	477
Trucked Water	175.0	13	13	13	13	11	11	11	13	15	18	22	24	25
Subtotal Sales	4,509.6	2,035	2,042	2,003	1,945	1,956	1,874	1,808	1,768	1,824	1,864	1,891	1,944	1,992
District Use														
Jameson	330.0	15	15	15	15	15	15	15	15	16	1	1	1	1
Somky	213.0	171	171	171	171	171	143	139	191	261	276	259	272	272
Fagundes/Airport	50.5	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal District	593.5	187	187	187	187	187	158	154	206	277	277	260	274	274
TOTAL DELIVERED	5,103.1	2,222	2,229	2,189	2,132	2,143	2,032	1,962	1,974	2,101	2,141	2,151	2,218	2,266

BIOSOLIDS HANDLING - MONTHLY

Site	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19
<u>Land Applied by NSD</u>													
Somky						65	109						
Airport/Fagundes										44			
Jameson Canyon	-	-	-	-	-	-	-	197	52		316	117	-
Subtotal by NSD	-	-	-	-	-	65	109	197	52	44	316	117	-
<u>Land Applied by Contractor</u>													
Somky													
Airport/Fagundes													
Jameson Canyon													
Subtotal by Contractor	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Land Applied	-	-	-	-	-	65	109	197	52	44	316	117	-
Off Site (Contractor)													
Total (tons)	-	-	-	-	-	65	109	197	52	44	316	117	-

COLLECTION SYSTEM MAINTENANCE - MONTHLY

CATEGORY	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19
<u>Plugups</u>													
Total Calls	77	70	43	46	43	46	40	45	46	45	68	38	60
Business Hours	44	47	39	21	23	28	31	33	30	36	51	28	37
After Hours	33	23	4	25	20	18	9	12	16	9	17	10	23
District's	28	24	15	27	13	10	7	17	12	10	22	6	17
Property Owner's	49	46	28	20	30	35	32	26	34	32	43	32	42
Plugged Main Lines	1	-	-	4	1	1	1	-	-	-	-	1	-
Run Lateral w/Eel	25	85	66	77	100	99	126	196	149	115	160	97	104
<u>Cleaning (feet of sewer)</u>													
Vactor #1	43,194	23,544	21,454	14,808	30,224	22,498	30,232	30,283	69,780	38,969	52,711	51,764	42,519
Vactor #2	-	27,335	9,420	26,687	22,691	43,466	32,180	39,800	57,405	43,059	25,762	610	18,811
Hydro													
Rodder													558
Total (feet)	43,194	50,879	30,875	41,495	52,916	65,964	62,412	70,083	#####	82,028	78,473	52,374	61,888
<u>Cleaning Days</u>													
Vactor #1	19	13	10	6	13	10	12	12	18	18	20	18	17
Vactor #2		7	6	15	8	19	15	16	21	15	8	1	10
Hydro													
Rodder													2
<u>Feet/day</u>													
Vactor #1	2,250	1,800	2,150	2,450	2,300	2,250	2,500	2,500	3,900	2,150	2,650	2,900	2,500
Vactor #2		3,900	1,550	1,800	2,850	2,300	2,150	2,500	2,750	2,850	3,200	600	1,900
Hydro													
Rodder													300
<u>Video Inspections</u>													
Mains (feet)	12,509	14,335	5,812	13,050	15,089	24,716	23,914	32,551	40,819	22,837	17,404	10,825	-
Laterals (each)	138	175	133	144	204	173	177	254	214	190	247	165	182
<u>Construction (each)</u>													
Cleanouts	1	18	3	17	15	12	24	15	17	15	20	10	4
Laterals	15	6	3	3	4	13	12	14	16	16	10	9	10
Mains	-	-		1				-	-		-		-
Manholes	-	-		1				-	2		2		-
Other													
<u>USA Markings</u>													
Regular (w/in 2 days)	159	171	224	338	327	338	292	378	363	331	332	224	290
Emergency (w/in 2 hours)	12	24	15	22	20	20	24	21	28	23	21	7	21

WASTEWATER PLANT MAINTENANCE and LABORATORY DATA - MONTHLY

CATEGORY	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19
<u>Scheduled</u>													
Old	10	6	5	11	10	15	25	31	7	7	8	17	24
New	97	100	82	92	109	89	95	96	85	94	106	89	87
Completed	101	101	76	93	104	79	89	120	85	93	97	82	88
New Balance	6	5	11	10	15	25	31	7	7	8	17	24	23
<u>Unscheduled</u>													
Old	30	24	23	23	23	22	21	18	22	21	21	24	20
New	13	19	12	20	15	31	17	32	28	20	39	24	29
Completed	19	20	12	20	16	32	20	28	29	20	36	28	28
New Balance	24	23	23	23	22	21	18	22	21	21	24	20	21
<u>Total Work Orders</u>													
Old	40	30	28	34	33	120	46	49	29	28	29	41	44
New	110	119	94	112	124	11	112	128	113	114	145	113	116
Completed	120	120	88	112	120	46	109	150	113	113	133	110	116
New Balance	30	28	34	33	37	46	49	29	28	29	41	44	44
<u>LAB ANALYSES</u>													
Sample Type													
Regulatory	175	169	117	164	155	190	138	129	149	142	147	240	176
Process Control	1,087	1,155	1,111	1,199	1,195	760	770	869	838	818	893	1,010	1,072
Special Request	2	-	8	2	-	1	15	1	22	26	46	38	16
Quality Control/Assurance	705	776	639	754	1,447	812	539	632	600	607	774	957	839
TOTAL	1,969	2,100	1,875	2,119	2,797	1,763	1,462	1,631	1,609	1,593	1,860	2,245	2,103

**Summary of NSD Capital Project Status
through 12-31-19**

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	-	3,548	56,452	6%
13702	Manhole Raising/Rehabilitation	332,600			332,600	212,850	14,993	104,757	5%
13703	Lateral Replacement/Rehabilitation	110,000			110,000	192	84,047	25,760	76%
13704	Cleanouts Installation/Rehabilitation	107,000			107,000	-	24,469	82,531	23%
13705	Inflow & Infiltration (I&I) Reduction Program	221,700			221,700	167,688	10,940	43,072	5%
14703	Browns Valley Rd & First St	7,000,000			7,000,000	-	5,606	6,994,394	0%
17704	Infltrtn Rehab - SSMH/PL (CI-)	-	25,500		25,500	-	-	25,500	-
18701	I&I Smoke Testing	150,000			150,000	14,266	28,485	107,249	19%
18702	Collection System Asset Management Software	-	443,550		443,550	282,075	114,784	46,691	26%
18703	Upper Lateral Rehab - Basin L (Pilot) #3	166,300	3,200		169,500	(0)	63,156	106,344	37%
18706	Sewer System Inflow/Infiltration 2019	3,538,100	313,850		3,851,950	431,194	2,146,707	1,274,049	56%
19701	66-inch Trunk Rehabilitation (Kaiser to IPS)	4,000,000	450,000		4,450,000	308,034	144,555	3,997,411	3%
19703	2020 Collection System Rehabilitation	3,169,600	9,800		3,179,400	-	33,401	3,145,999	1%
19727	Collection System Master Plan	1,071,200	632,350		1,703,550	265,049	260,060	1,178,441	15%
20701	Upper Lateral Rehab - Pilot #5	5,000			5,000	-	50	4,950	1%
20702	Manhole Rehabilitation	250,000			250,000	182,120	2,693	65,187	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		(200)	11,700	-	9,382	2,318	80%
20705	Eel Replacement #2	5,900		200	6,100	-	5,688	412	93%
	<u>COLLECTION SYSTEM - LIFT STATIONS</u>								
17711	West Napa PS - Rehab	5,500,000			5,500,000	50,067	190,692	5,259,241	3%
19705	Stonecrest PS Pump Rebuild	-	40,100		40,100	9,840	15,266	14,994	38%
	<u>TREATMENT - PROJECTS</u>								
13745	Pond 1 Dredge	2,100,000	237,150		2,337,150	6,892	39,874	2,290,384	2%
18736	Treatment Plant Project 2018	-	15,000		15,000	10,901	139	3,961	1%
18740	Treatment Plant Project 2019	600,000	672,700		1,272,700	173,126	1,068,596	30,978	84%
19717	WWTP MP - Pond Transfer Structures 2 to 3	-	259,700		259,700	-	12,800	246,900	5%
20706	WWTP Master Plan	5,000			5,000	-	-	5,000	-
20707	Pond Levee Repair	100,000			100,000	-	208	99,792	0%
20708	2020 Treatment Plant Improvements Project	1,500,000			1,500,000	78,020	23,146	1,398,833	2%

**Summary of NSD Capital Project Status
through 12-31-19**

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	32,908	65,815	22,828	54%
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	109,187	46,090	811,023	5%
17715	Turbidimeters (7) Tertiary Rplcmnts	-	16,000		16,000	-	-	16,000	-
17726	Headworks Equipment Rehab/Replacment	1,000,000	667,600		1,667,600	295,037	1,267,538	105,024	76%
18711	3W Strainer	-	24,350		24,350	-	-	24,350	-
18715	Muffle Furnace - Replacement	-	5,000		5,000	-	4,321	679	86%
18716	Rotork Actuator Replacement	-	6,400		6,400	-	-	6,400	-
18719	Filter Flow Control - Rotork Valves	-	9,900		9,900	-	-	9,900	-
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	-	19,115	75,885	20%
19709	Main - Polymer Tank (3) Replacement	-	10,000		10,000	-	-	10,000	-
19710	Main - 12kV Redundant Line	-	119,150		119,150	-	702	118,448	1%
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	13,071	16,630	55,999	19%
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	20,403	5,310	34,287	9%
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	30,502	-	2,798	-
20718	Vehicle 162 - Ford F-250 Diesel	43,600			43,600	-	41,122	2,478	94%
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	-	14,596	5,404	73%
	<u>SCADA</u>								

**Summary of NSD Capital Project Status
through 12-31-19**

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	10,027	28,608	49,615	32%
	<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	84,927	291,526	67,948	66%
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	59,960	1,607	(1,567)	3%
	<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	-	127,387	209,613	38%
19723	AV System Replacement - Conference Rooms	-	20,000		20,000	-	-	20,000	-
19725	Vehicle 011 - CSET Trailer	-	7,100		7,100	-	3,800	3,300	54%
		\$33,873,300	\$5,173,700	-	\$39,047,000	\$2,848,336	\$6,237,559	\$29,961,102	16%