



Napa Sanitation District

General Manager's Report

for

March, 2019

Contents:

- a. Transmittal Memo
- b. Budget Status and Cash Summary
- c. Key Information Graphs – Fund Balances, Treatment Plant and Collection
- d. Fund Balances
- e. Development Processing
- f. Construction Inspection
- g. Pollution Prevention
- h. Recycled Water Deliveries
- i. Biosolids Handling
- j. Collection System Maintenance
- k. Treatment Plant Operations
- l. Treatment Plant Maintenance & Laboratory
- m. Capital Project Expenditure Summary



NAPA SANITATION DISTRICT

General Manager's Report

DATE: May 1, 2019

FROM: Timothy B. Healy, General Manager

SUBJECT: General Manager's Report for March 2019

REGULATORY COMPLIANCE:

Collection System Compliance:	2 Category 1 SSO's, 0 Category 2 SSO's, and 14 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, 2018 – March 31, 2019
Percent Fiscal Year:	75.0%
Operating Expenditures to date:	75.2%
Historical Expenditures to date:	75.3%
Significant Comments:	None

PERSONNEL:

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

New Hires:	None
Separations:	None
Promotions:	None
Recruitment Activities:	Interviews held for Collection System Worker position; testing held for Operator-in-Training/Operator I/II; interviews held for engineering summer intern.
Injuries:	None

Summaries of Operational Highlights are on following pages.

COLLECTIONS:

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

- The District had 2 Category 1 Sanitary Sewer Overflows (SSO's), 0 Category 2 SSO's and 14 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 14 cleanouts and repaired 2 cleanouts. They also repaired 3 laterals. Additionally, the service response/programs crew completed 119 work orders in support of the grease and odor control program, responded to 51 customer requests for service (30 were NSD problem) and closed out 352 mark and locate request tickets.
- The preventative maintenance crews ran work orders on 80 laterals, cleaned approximately 41,495 feet of main line and CCTV inspected 21 laterals. In addition, the CCTV truck televised 13,050 feet of mainline.

TREATMENT PLANT:

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

Plant Operations:

- For March 2019, the plant's influent flow was 465.3 MG as compared to last year flow for March 2018 of 347.0 MG
- Flow to the Napa River for March 2019 was 618.1 MG compared to last year's flow of 415.7 MG.
- The production of recycle quality occurred for 5 days during March 2019 with an average distributed flow of 0.27 MGD.
- There was 3.94" rainfall for March 2019 (Carneros Rainfall Center) as compared to 5.31" rainfall for March 2018.
- Pond 4 end of the month recorded level reading was 45.31" as compared to March 2018 of 33.26". Total remaining pond capacity for March 2019 was 53.9% as compared to March 2018 remaining capacity of 54.2%.

Power Consumption and Production:

- March power purchased from PG&E was 504 MWH in comparison to February 2019 purchase of 374 MWH. Increase in purchased power is due to the operation of the pond aerators for the month of March.
- Cogeneration unit ran 738 of 744 hours for the month – 99.19% uptime, averaging 290.42 Kw, producing 215 MWH of energy.
- Solar generation in March was 145 MWH, compared to 89 MWH in February.

Maintenance:

Significant events for the month of March 2019:

Process Maintenance

- Cogeneration unit monthly emission test - in compliance with BAAQMD permit
- Repaired Cogen O2 sensor heater
- Replaced 30A breaker in Collections truck DPF
- Replaced Pressure Transducer on Recycle north hydro pneumatic tank
- Repaired gear operator on Digester Ring valve #3
- Emergency Generator Service;
 - Changed oil
 - Replaced oil, fuel, air and fuel separator filters
 - Checked coolant level, belt wear and hose condition

Projects

- Replaced ARV's at Load out and Recycle Station
- Fabricated and installed protective covers for EVSE units
- Installed new transmitter on LCWD flow meter
- Replaced flow tube and transmitters on north and south recycle lines

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 March, 2019. All parameters were monitored at the required frequencies. The following were notable sampling events:

- March 5, 2019: Mercury, Metals, Cyanide, Nutrients
- March 5-9, 2019: Acute Toxicity Bioassay
- March 11, 2019: Nutrients

Influent (INF-001) Summary

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

- March 5, 2019: Metals, Mercury, Cyanide

RECYCLING:

Significant events in the Recycling Department for March 2019 include:

- Recycled water delivered for the month of March 2019 was (8.142 million gallons), as compared to March 2018 (26.881 million gallons) is lower from the previous year due to vineyard demand for filling reservoirs. Delivered recycled water volume represents the sum of all use site flow meter consumption values.
- Staff continued encapsulating biosolids at the Jameson Reuse Site for the reporting period.

POLLUTION PREVENTION:

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

- There was one tour of the treatment plant given to community members.
- NapaSan staff participated in the Redwood Middle School Mentor Day to let students know about careers in wastewater. Staff also took part in the countywide 8th grade career fair and spoke with over 1,000 students about careers in the wastewater field.
- In March, 102 pounds of medication were disposed of through the takeback program. The total amount of unneeded medications collected since the drug takeback program began in September 2010 is 21,747.2 pounds.
- There were no ESME Washer Rebates issued this month.

ENGINEERING / CAPITAL PROJECTS / DEVELOPMENT:

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

- Consultant continued work on the SCADA Master Plan.
- Contractor continued construction of the Headworks Equipment Replacement Project.
- Contractor continued construction of the Southeast Napa Sewer and Roadway Rehabilitation Project.
- Consultant continued design of the Primary Clarifier Rehabilitation Project.
- Consultant continued design of the West Napa Pump Station Project.
- Consultant and staff continued work on Phase 1A and Phase 1B of the Asset Management Program.
- Contractor continued construction of the 2018 Treatment Plant Improvement Project.
- Staff opened bids for the 2019 Treatment Plant Improvement Project.

- Staff issued Request for Qualifications for the SWRF Buried Metallic Piping Condition Assessment Project.
- Staff issued Request for Qualifications for the SWRF 12kV System Condition Assessment Project.
- Staff opened bids for the Pond Transfer Structure Project to the low bidder.
- Consultant continued working on the Collection System Master Plan.
- Staff awarded the MST Truck Fill Station to the low bidder.
- Staff reviewed 30 sets of development plans and deemed 12 sets of plans complete. The approved plans consisted of 6 tenant improvements, 5 residential dwellings, and 1 residential lateral.

Budget Status & Cash Summary - July 1, 2018 - March 31, 2019 (75.0% of the year)

<i>Expenditures</i>	FY 18/19 Budget	Encumbrances	Expenditures to date	Committed to date	Remaining Balance	Percent Committed
Operating						
Salaries & Benefits	\$9,961,350	\$1,288	\$6,746,449	\$6,747,737	\$3,213,613	67.7%
Services & Supplies	6,160,950	766,417	3,496,206	4,262,623	1,898,327	69.2%
Taxes	29,150	-	14,880	14,880	14,270	51.0%
Debt Service	4,593,800	-	4,594,367	4,594,367	(567) ①	100.0%
Intrafund Transfers	8,900,000	-	6,675,000	6,675,000	2,225,000	75.0%
Total Operating:	\$29,645,250	\$767,705	\$21,526,902	\$22,294,607	\$7,350,643	75.2% ②
Capital						
Bldgs/Improvements & Equip	\$32,410,100	\$6,117,297	\$10,336,212	\$16,453,509	\$15,956,591 ③	50.8%
Intrafund Transfers	7,250,000	-	4,855,400	4,855,400	2,394,600	67.0%
Total Capital :	\$39,660,100	\$6,117,297	\$15,191,612	\$21,308,909	\$18,351,191	53.7%
Grand Total Expenditures:	\$69,305,350	\$6,885,002	\$36,718,514	\$43,603,516	\$25,701,833	62.9%

<i>Revenues</i>	FY 18/19 Budget	Encumbrances	Revenues to date	Revenues posted to date	Unposted Revenue	Percent Posted
Operating						
Use of Money/Property	\$1,036,000		\$915,643	\$915,643	\$120,357	88.4%
Charges for Services	29,571,800		18,927,574	18,927,574	10,644,226	64.0%
Miscellaneous Revenues	63,000		54,995	54,995	8,005	87.3%
Donations/Contributions (Capital Labor)	-		635,340	635,340	(635,340) ④	N/A
Total Operating:	\$30,670,800		\$20,533,552	\$20,533,552	\$10,137,248	66.9%
Capital						
Use of Money/Property	\$0		\$179	\$179	(\$179)	N/A
Capacity Charges	4,614,600		1,878,749	1,878,749	2,735,851	40.7%
Intergovernmental	375,000		22,206	22,206	352,794 ⑤	5.9%
Bond/Loan Proceeds	9,075,000		-	-	9,075,000 ⑥	0.0%
Sale of Assets	25,000		100,230	100,230	(75,230)	N/A
Miscellaneous Revenues	5,000		-	-	5,000	N/A
Intrafund Transfers	16,150,000		11,530,400	11,530,400	4,619,600	71.4%
Total Capital:	\$30,244,600		\$13,531,764	\$13,531,764	\$16,712,836	44.7%
Grand Total Revenue:	\$60,915,400		\$34,065,317	\$34,065,317	\$26,850,083	55.9%

Cash on Hand as of 3/31/19 **\$23,304,434**

**excluding Debt Service restricted funds
3/31/19 -Effective Rate of Return = 2.204%

1. Series 2012A's and 2017's principal/interest payments are made in Aug & Feb
2. Includes Debt Service and Intrafund Transfers; otherwise is 68.3%
3. See Capital Project Status report for details
4. In-house Labor for Capital Projects (Contra acct for Salaries)
5. Reimbursement from Napa Co. for MST Truck Fill Station; Construction to start Mar 2019
6. Waiting for approval of funds from State

**Summary of NSD Capital Project Status
through 03-31-19**

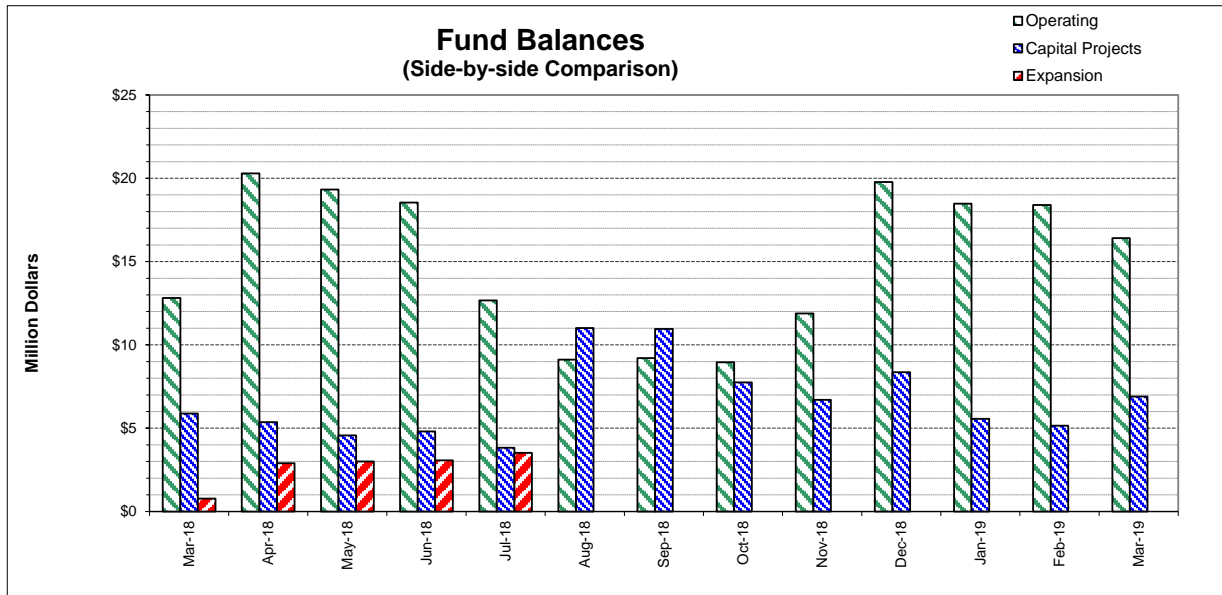
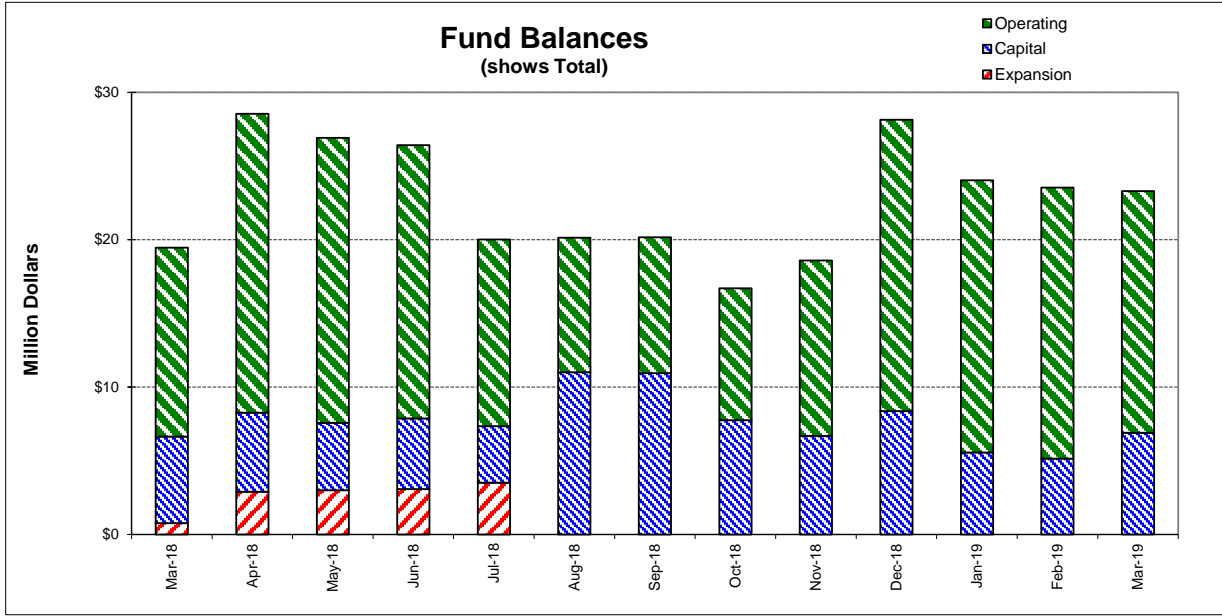
Proj #	Description	FY 18/19 Budget	FY 17/18 Carryovers	Adj.	Final FY 18/19 Budget	Encumbrance	Costs Paid to Date	Budget Remaining	% Budget Expended
	<u>COLLECTION SYSTEM</u>								
13701	Main Line Sewer Rehabilitation	95,000			95,000	6,750	29,069	59,181	31%
13702	Manhole Raising/Rehabilitation	428,500			428,500	-	283,991	144,509	66%
13703	Lateral Replacement/Rehabilitation	77,100			77,100	4,693	70,921	1,487	92%
13704	Cleanouts Installation/Rehabilitation	93,200			93,200	-	59,567	33,634	64%
13705	Inflow & Infiltration (I&I) Reduction Program	214,200			214,200	121,099	10,324	82,777	5%
14703	Browns Valley Rd & First St	5,075,000			5,075,000	25,534	217,663	4,831,803	4%
17704	Infltrtn Rehab - SSMH/PL (CI-)	-	73,900	(40,000)	33,900	-	8,400	25,500	25%
17708	Basin G - I&I Reduction #1	-	200,000		200,000	-	153,759	46,241	77%
18701	I&I Smoke Testing	-	99,750		99,750	6,629	64,912	28,210	65%
18702	Collection System Asset Management Software	275,000	349,550		624,550	374,269	123,195	127,086	20%
18703	Upper Lateral Rehab - Basin L (Pilot) #3	-	5,000		5,000	-	414	4,586	8%
18705	Sewer System Inflow/Infiltration 2018	2,600,000	2,298,750	(20,000)	4,878,750	7,633	4,307,996	563,121	88%
18706	Sewer System Inflow/Infiltration 2019	2,321,100	13,900	335,850	2,670,850	2,010,350	51,932	608,568	2%
19701	66-inch Trunk Rehabilitation (Kaiser to IPS)	1,400,000			1,400,000	44,202	169,087	1,186,712	12%
19702	72-inch Trunk Construction (Kaiser to IPS)	1,000,000		(1,000,000)	-	-	-	-	-
19703	2020 Collection System Rehabilitation	20,000			20,000	-	353	19,647	2%
19727	Collection System Master Plan	-		1,000,000	1,000,000	294,154	125,042	580,804	13%
	<u>COLLECTION SYSTEM - EQUIPMENT</u>								
18708	Manhole - Smart Covers (4)	-	15,000		15,000	-	14,978	22	100%
18738	Combination Truck Veh #529B	-	3,600		3,600	-	3,600	-	100%
19704	Vehicle 180 - Ford F150 - USA Truck	35,400			35,400	-	35,400	-	100%
19729	Replace Coll Veh #166	-		40,000	40,000	35,092	-	4,908	-
19730	CCTV Camera Transporter	-		20,000	20,000	-	19,637	363	98%
	<u>LIFT STATIONS</u>								
17711	West Napa PS - Rehab	5,200,000			5,200,000	465,343	424,167	4,310,490	8%
19705	Stonecrest PS Pump Rebuild	45,000			45,000	25,106	4,894	15,000	11%
	<u>TREATMENT</u>								
13745	Pond 1 Dredge	600,000		(350,000)	250,000	14,680	10,614	224,707	4%
	<u>TREATMENT - EQUIPMENT</u>								
13735	Dual Fuel Boiler Burner	-	155,300		155,300	131,630	-	23,670	-
15711	Rotork Actuator Replacement	-	7,600		7,600	-	-	7,600	-

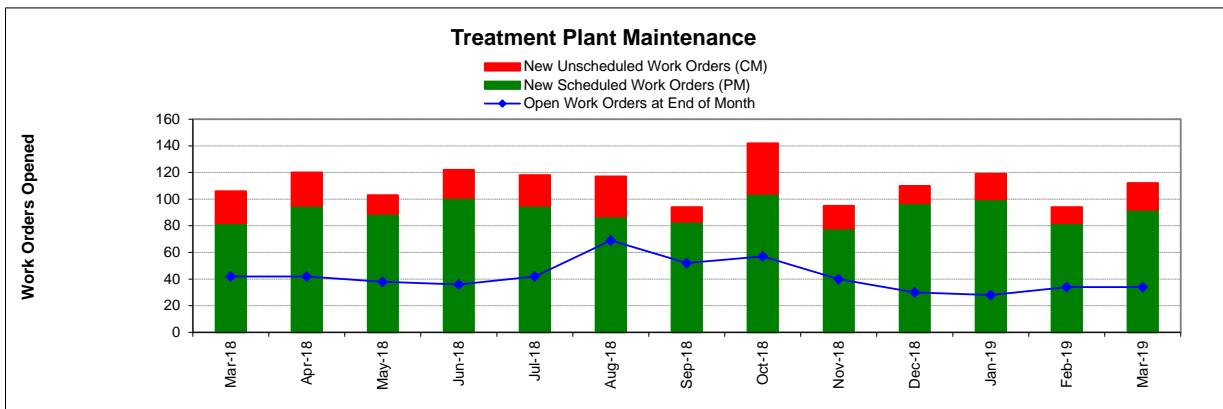
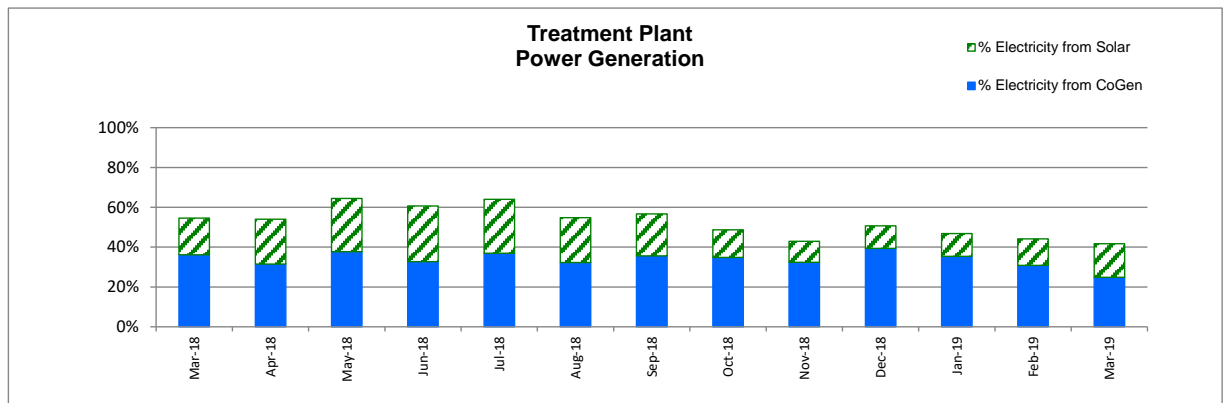
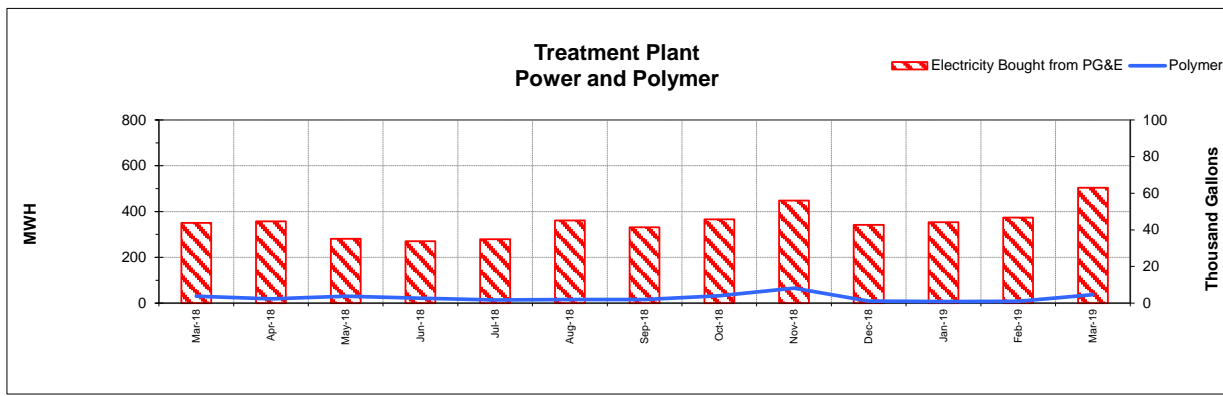
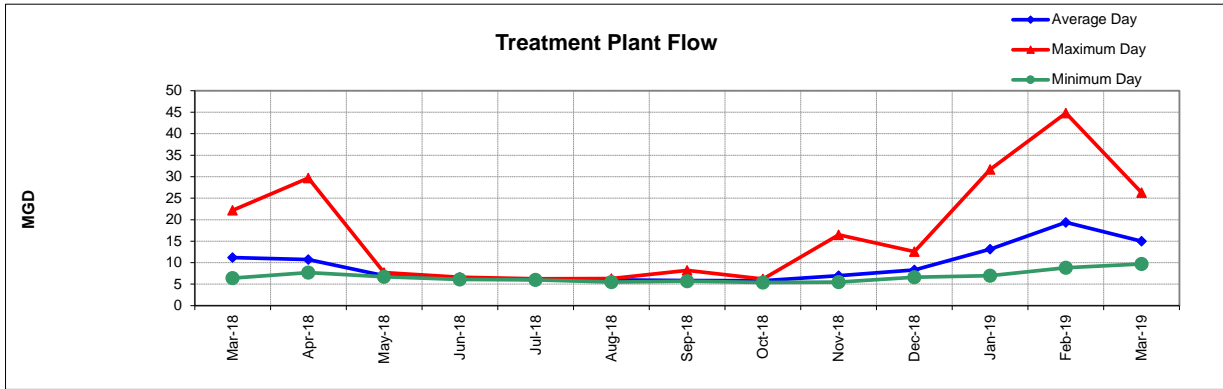
**Summary of NSD Capital Project Status
through 03-31-19**

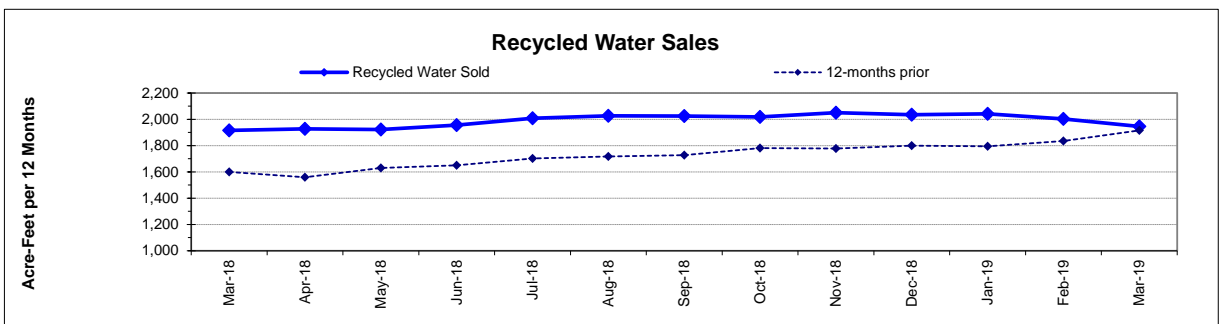
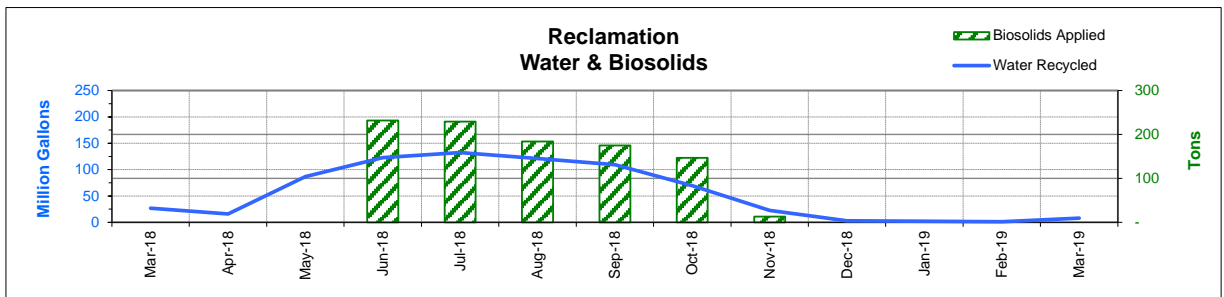
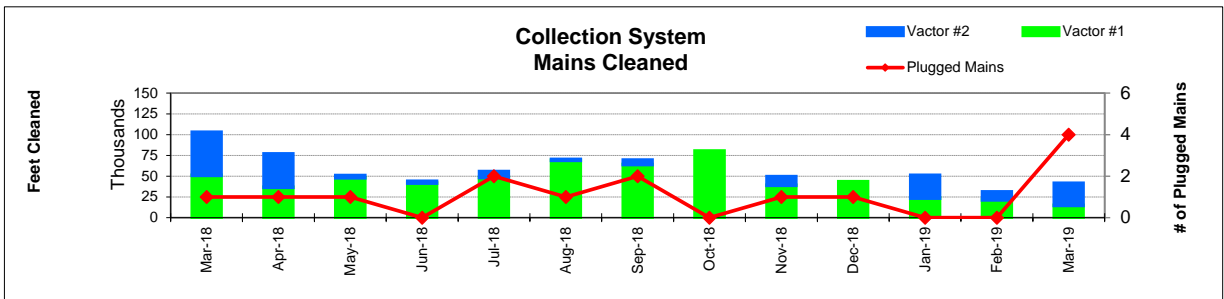
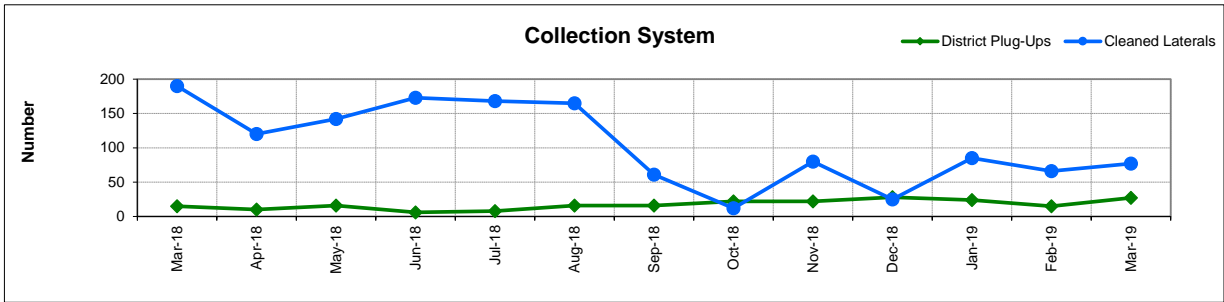
Proj #	Description	FY 18/19 Budget	FY 17/18 Carryovers	Adj.	Final FY 18/19 Budget	Encumbrance	Costs Paid to Date	Budget Remaining	% Budget Expended
15713	Aeration Basin Instrmntn/Ctrl	-	6,750		6,750	-	-	6,750	-
16712	Main - Primary Clarifier Mech/Struct Rehabilitation	150,000		90,000	240,000	95,369	42,185	102,446	18%
17713	Secondary PS VFD Rplcmnt (3)	57,400		(57,400)	-	-	-	-	-
17715	Turbidimeters (7) Tertiary Rplcmnts	-	16,000		16,000	-	-	16,000	-
18711	3W Strainer	-	52,750		52,750	-	28,374	24,376	54%
18715	Muffle Furnace - Replacement	-	5,000		5,000	-	-	5,000	-
18716	Rotork Actuator Replacement	-	67,200	18,600	85,800	-	79,396	6,404	93%
18719	Filter Flow Control - Rotork Valves	-	46,600		46,600	-	36,668	9,932	79%
18720	Neuros Blowers Rebuild	64,300			64,300	-	-	64,300	-
18722	FOG Station Water Heater	-	5,000		5,000	-	-	5,000	-
18725	Belt Press Hydraulic Actuator Replace	-	20,000		20,000	-	18,764	1,236	94%
18740	Main - Chemical Storage Building Piping Repair	250,000	25,000	1,000,000	1,275,000	7,924	214,430	1,052,646	17%
19706	WWTP MP - 3W System Improvements Phase 2	300,000			300,000	-	401	299,599	0%
19707	Portable Pumps 10-inch (2)	172,100		42,400	214,500	-	214,379	121	100%
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	120,000			120,000	-	380	119,620	0%
19711	Main - CCB Coating - E&W Channels	50,000		(50,000)	-	-	-	-	-
19712	Main - Utility Generator Power Transition	75,000		(40,000)	35,000	-	-	35,000	-
19713	Main - Cogen Hot Water to FOG Pad	50,000			50,000	-	-	50,000	-
19714	Main - Ventilation System Expansion Boots	50,000			50,000	-	28,740	21,260	57%
19715	Main - ARV Replacement	30,000			30,000	-	29,299	701	98%
19716	Main - P4PS Pump #3 Rebuild	40,000			40,000	-	35,523	4,477	89%
19728	Lab Sampler	-		8,000	8,000	-	7,298	702	91%
	TREATMENT - STRUCTURES								
17726	Headworks Equipment Rehab/Replacment	1,900,000	9,250		1,909,250	1,583,744	188,379	137,127	10%
18736	Treatment Plant Project 2018	2,100,000	854,000		2,954,000	271,746	2,543,426	138,828	86%
19717	WWTP MP - Pond Transfer Structures 2 to 3	5,000		350,000	355,000	41,866	24,914	288,219	7%
	SCADA								
18729	SCADA MP Project #1 - Network Monitoring	-	48,700		48,700	-	2,501	46,199	5%
19718	SCADA MP Phase 5 Security Study	250,000			250,000	79,714	116,448	53,838	47%
	RECYCLING - DISTRICT								
16716	Line Recycled Water Reservoir	-	100,000		100,000	2,125	82,966	14,909	83%

**Summary of NSD Capital Project Status
through 03-31-19**

Proj #	Description	FY 18/19 Budget	FY 17/18 Carryovers	Adj.	Final FY 18/19 Budget	Encumbrance	Costs Paid to Date	Budget Remaining	% Budget Expended
18730	Jameson 24" Flow Meter Rehab	-	6,200		6,200	-	-	6,200	-
18731	Coombsville Truck Fill Station	375,000	65,050		440,050	307,053	89,934	43,063	20%
19719	24-inch Valve Replacement - Kirkland Line	5,000			5,000	-	-	5,000	-
19720	Jameson PS VFD	68,900			68,900	-	-	68,900	-
19721	Soscol RW Pump Replacement/Rehab	150,000			150,000	91,651	-	58,349	-
19722	Vehicle 723/720 - Attachments/Implements	28,700			28,700	-	25,783	2,917	90%
	<u>RECYCLING - EXPANSION</u>								
13727	North Bay Wate Reuse Project	150,000			150,000	-	97,014	52,986	65%
	<u>OTHER</u>								
13729	Development Technical Support	248,300		120,100	368,400	-	224,524	143,876	61%
19723	AV System Replacement - Conference Rooms	20,000			20,000	-	-	20,000	-
19724	Fence Repair - District Wide	25,000		7,000	32,000	18,162	12,540	1,298	39%
19725	Vehicle 011 - CSET Trailer	23,700			23,700	13,700	-	10,000	-
19726	Vehicle 607 - Electrical Hybrid Vehicle	42,800			42,800	37,080	2,030	3,689	5%
GRAND TOTAL ALL PROJECTS		\$26,385,700	\$4,549,850	\$1,474,550	\$32,410,100	\$6,117,297	\$10,336,212	\$15,956,594	32%







FUND BALANCES - MONTHLY

CATEGORY	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19
<i>(Thousand Dollars)</i>													
7800	12,818	20,290	19,326	18,538	12,676	9,123	9,204	8,951	11,888	19,772	18,473	18,394	16,405
7850	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Operating	12,818	20,290	19,326	18,538	12,676	9,123	9,204	8,951	11,888	19,772	18,473	18,394	16,405
Capital Improvement Projects	5,877	5,365	4,573	4,808	3,825	11,009	10,956	7,755	6,698	8,363	5,567	5,153	6,899
Debt Proceeds	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Capital	5,877	5,365	4,573	4,808	3,825	11,009	10,956	7,755	6,698	8,363	5,567	5,153	6,899
Total Discretionary Funds	18,695	25,655	23,899	23,346	16,501	20,132	20,160	16,706	18,586	28,135	24,040	23,547	23,304
Expansion Fund (Restricted)	775	2,898	3,007	3,075	3,520	-	-	-	-	-	-	-	-
Total Restricted Funds	775	2,898	3,007	3,075	3,520	-	-	-	-	-	-	-	-
TOTAL ALL FUNDS	19,470	28,553	26,906	26,421	20,021	20,132	20,160	16,706	18,586	28,135	24,040	23,547	23,304

DEVELOPMENT WORKLOAD - MONTHLY

CATEGORY	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19
<u>Phone Requests</u>													
Maps/Drawings	6	3	6	8	4	2	2	3	1	2	6	2	4
Lateral Permits	-	-	-	-	-	-	-	-	-	-	-	-	-
Policy Questions	17	5	9	8	9	10	4	6	3	6	8	7	5
Development Questions	39	44	79	80	61	63	28	70	41	44	40	35	48
Miscellaneous	15	11	17	27	37	24	26	20	18	25	27	18	25
TOTAL	77	63	111	123	111	99	60	99	63	77	81	62	82
<u>Counter Requests</u>													
Maps/Drawings	-	-	1	1	-	3	-	1	-	1	-	-	-
Lateral Permits	17	12	10	12	9	9	3	9	5	10	12	8	11
Policy Questions	2	-	1	-	2	3	-	2	-	1	-	-	3
Development Questions	15	11	13	12	12	9	5	6	6	5	10	9	13
Miscellaneous	3	-	1	1	2	2	2	0	-	1	1	-	-
TOTAL	37	23	26	26	25	26	10	18	11	18	23	17	27
<u>Initial Request (Referrals)</u>	20	15	20	13	13	17	16	21	20	15	18	14	16
<u>Connection Permits Issued</u>													
Residential Permits	19	16	3	3	5	16	9	1	1	2	-	4	5
Commercial Permits	1	3	2	3	5	5	1	-	2	-	1	-	1
Industrial Permits	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMITS	20	19	5	6	10	21	10	1	3	2	1	4	6
Residential Units	336	16	3	3	5	16	18	1	1	2	-	4	36
Commercial Units	1	102	174	3	5	8	1	-	2	-	1	-	1
TOTAL UNITS	337	118	177	6	10	24	19	1	3	2	1	4	37
<u>Annexations</u>													
Submitted	-	-	-	-	1	1	1	-	1	-	1	-	-
Acreage	-	-	-	-	0.60	11.60	5.79	-	158.20	-	4.90	-	-
<u>Plans Reviewed</u>													
<u>Subdivisions/Sites</u>													
First Submittal	18	14	4	10	10	18	9	10	10	9	2	5	6
Second Submittal	9	6	8	3	5	8	4	5	2	5	7	5	6
Third Submittal	6	2	2	2	3	3	4	2	1	1	1	5	3
<u>Building/Tenant Improvements</u>													
First Submittal	14	7	19	18	10	8	8	11	8	11	5	8	7
Second Submittal	9	1	7	6	8	6	1	5	6	-	4	2	5
Third Submittal	3	4	2	3	5	4	3	1	3	1	1	2	3
<u>Miscellaneous Plan Reviews</u>	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PLANS REVIEWED	59	34	42	42	41	47	29	34	30	27	20	27	30

INSPECTION WORKLOAD - MONTHLY

CATEGORY	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19
<u>CONSTRUCTION</u>													
Locating Sewers	-	-	-	-	-	1	-	-	1	2	4	-	-
Permit Processing	-	-	-	-	-	-	-	-	-	-	-	-	-
Preconstruction Meetings	5	5	7	2	3	1	3	-	1	3	-	-	3
Inspections - Mains	6	2	4	-	2	6	11	1	-	1	-	1	1
Inspections - Manholes	13	16	25	12	-	6	76	76	21	30	49	75	19
Inspections - Laterals	23	17	25	15	7	13	3	8	3	28	18	23	31
Inspections - Cleanouts	24	26	43	7	3	2	2	6	8	37	31	39	39
Inspections - Review Video	1	2	-	17	1	-	2	-	1	2	-	2	2
Demo - Septic Tanks	-	-	-	-	-	-	-	-	-	-	-	-	-
Demo - Buildings	-	-	-	-	1	-	-	-	-	-	-	2	-
Update Record Drawings	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	72	68	104	53	17	29	97	91	35	103	102	142	95
<u>MISCELLANEOUS</u>													
Meter Readings	-	1	13	-	-	-	-	-	1	10	26	4	-
Washdown Facility Inspections	-	12	-	-	-	-	-	-	-	-	-	-	-
General Customer Assistance	38	11	28	21	40	27	31	50	25	30	34	41	13
City of Napa Water Discharge	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	38	24	41	21	40	27	31	50	26	40	60	45	13
<u>SPECIAL PROJECTS</u>													
	5	6	0	9	21	23	35	36	19	0	7	7	21

POLLUTION PREVENTION WORKLOAD - MONTHLY

CATEGORY	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19
<u>Outreach Activities</u>													
Plant Tours Conducted	1	5	5	3	1	3	6	4	1	1	2	6	1
Presentations Made	2	1	5	0	1	0	2	10	0	0	1	0	2
Total Outreach Activities	3	6	10	3	2	3	8	14	1	1	3	6	3
<u>Inspections Conducted</u>													
Food Service Facilities	64	51	10	-	-	-	-	-	-	1	22	41	26
Auto Body & Car Wash	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	1	-	-	-	-
Total Inspections	64	51	10	-	-	-	-	-	1	1	22	41	26
<u>Compliance Issues</u>													
NOVs Issued	2	2	1	3	-	3	1	2	1	-	1	1	1
NOEs Issued	-	1	-	1	-	1	-	1	1	-	-	1	-
Non-Compliant-FOG	-	-	-	-	-	-	-	-	-	-	1	-	-
Total Compliance Issues	2	3	1	4	-	4	1	3	2	-	2	2	1
<u>Pollution Prevention</u>													
Clothes Washer Rebates	21	-	8	21	-	-	-	-	29	23	6	8	-
Toilet Retrofit Rebates	-	-	-	-	-	-	-	-	-	-	-	-	-
Pharmaceuticals Diverted (in lbs)	82	66	-	74	90	65	61	68	56	-	124	-	102

RECYCLED WATER DELIVERIES - MONTHLY

	Acres	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19
MONTHLY (MG)														
Water Sold														
Golf Courses	405.0	2.748	3.320	52.726	68.294	64.047	57.269	44.197	23.612	3.322	0.008	0.002	-	0.014
Cemeteries	57.1	0.154	0.385	3.183	3.643	4.903	4.920	4.142	3.239	2.872	0.690	0.380	-	0.273
Parks	18.5	-	-	0.823	0.949	1.051	0.846	0.527	0.050	0.611	-	0.002	-	-
Schools	21.0	0.198	0.242	1.727	2.151	2.122	2.044	1.571	1.231	0.745	0.060	0.098	0.043	0.041
Commerical	167.6	1.765	3.169	9.893	12.414	15.863	19.184	16.950	19.637	7.652	1.891	1.379	0.557	0.648
Vineyards	564.0	21.988	8.001	6.377	21.260	43.468	32.727	21.248	9.649	7.015	0.239	0.380	0.513	7.149
Trucked Water	175.0	0.029	0.880	0.143	0.737	0.666	0.637	0.399	0.289	0.403	0.033	0.007	0.020	0.017
Subtotal Sales	1,408.2	26.881	15.996	74.872	109.448	132.120	117.628	89.035	57.707	22.620	2.921	2.248	1.133	8.142
District Use														
Jameson	330.0	-	-	-	-	-	0.163	4.785	-	-	-	-	-	-
Somky	213.0	-	-	11.710	13.263	0.208	3.226	15.447	12.002	0.008	-	-	-	-
Fagundes/Airport	50.5	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal District	593.5	-	-	11.710	13.263	0.208	3.389	20.232	12.002	0.008	-	-	-	-
TOTAL DELIVERED	2,001.7	26.881	15.996	86.582	122.711	132.327	121.016	109.266	69.709	22.628	2.921	2.248	1.133	8.142
ANNUAL (AF)														
Water Sold														
Golf Courses	405.0	1,091	1,093	1,091	1,097	1,067	1,063	1,035	1,025	1,019	1,000	1,000	981	972
Cemeteries	57.1	16	17	25	34	46	58	69	76	84	86	88	88	88
Parks	18.5	14	14	14	14	14	14	14	13	15	15	15	15	15
Schools	21.0	37	38	39	38	37	37	37	36	38	38	38	38	37
Commerical	167.6	333	335	318	303	298	303	309	327	337	338	343	339	335
Vineyards	564.0	420	423	427	460	534	540	550	529	545	545	546	531	485
Trucked Water	175.0	5	8	8	10	11	11	12	12	13	13	13	13	13
Subtotal Sales	1,408.2	1,916	1,928	1,923	1,955	2,008	2,026	2,025	2,018	2,051	2,035	2,042	2,003	1,945
District Use														
Jameson	330.0	143	143	143	143	121	64	15	15	15	15	15	15	15
Somky	213.0	223	223	240	244	210	178	166	171	171	171	171	171	171
Fagundes/Airport	50.5	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal District	593.5	366	366	383	387	330	243	182	187	187	187	187	187	187
TOTAL DELIVERED	2,001.7	2,282	2,294	2,306	2,343	2,338	2,269	2,207	2,205	2,237	2,222	2,229	2,189	2,132

BIOSOLIDS HANDLING - MONTHLY

Site	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19
<u>Land Applied by NSD</u>													
Somky							175						
Airport/Fagundes													
Jameson Canyon	-	-	-	232	229	184		147	13	-	-	-	-
Subtotal by NSD	-	-	-	232	229	184	175	147	13	-	-	-	-
<u>Land Applied by Contractor</u>													
Somky													
Airport/Fagundes													
Jameson Canyon													
Subtotal by Contractor	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Land Applied	-	-	-	232	229	184	175	147	13	-	-	-	-
Off Site (Contractor)													
Total (tons)	-	-	-	232	229	184	175	147	13	-	-	-	-

COLLECTION SYSTEM MAINTENANCE - MONTHLY

CATEGORY	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19
<u>Plugups</u>													
Total Calls	67	40	44	25	37	39	53	57	64	77	70	43	46
Business Hours	53	23	32	16	24	28	32	36	34	44	47	39	21
After Hours	16	17	12	9	9	11	21	21	30	33	23	4	25
District's	15	10	16	6	8	16	16	22	22	28	24	15	27
Property Owner's	40	30	28	19	29	23	36	35	41	49	46	28	20
Plugged Main Lines	1	1	1		2	1	2	-	1	1	-	-	4
Run Lateral w/Eel	190	120	142	173	168	165	61	12	80	25	85	66	77
<u>Cleaning (feet of sewer)</u>													
Vactor #1	51,027	36,507	47,937	41,767	48,278	69,132	63,968	80,207	38,882	43,194	23,544	21,454	14,808
Vactor #2	51,666	40,119	2,708	2,065	7,290	1,072	5,367	-	10,373	-	27,335	9,420	26,687
Hydro Rodder													
Total (feet)	102,693	76,625	50,645	43,832	55,568	70,204	69,335	80,207	49,254	43,194	50,879	30,875	41,495
<u>Cleaning Days</u>													
Vactor #1	15	14	20	19	16	21	19	22	17	19	13	10	6
Vactor #2	18	13	1	1	3	1	3	-	3		7	6	15
Hydro Rodder													
<u>Feet/day</u>													
Vactor #1	3,400	2,600	2,400	2,200	3,000	3,300	3,350	3,650	2,300	2,250	1,800	2,150	2,450
Vactor #2	2,850	3,100	2,700	2,050	2,450	1,050	1,800		3,450		3,900	1,550	1,800
Hydro Rodder													
<u>Video Inspections</u>													
Mains (feet)	21,714	18,530	26,140	18,248	18,188	27,761	18,443	31,889	17,526	12,509	14,335	5,812	13,050
Laterals (each)	211	179	197	223	266	234	232	297	201	138	175	133	144
<u>Construction (each)</u>													
Cleanouts	8	6	10	8	27	25	6	5	50	1	18	3	17
Laterals	1	10	24	10	9	8	8	4	4	15	6	3	3
Mains								1		-	-		1
Manholes		1	2			2	1	1		-	-		1
Other		3											
<u>USA Markings</u>													
Regular (w/in 2 days)	266	280	282	277	397	296	286	378	159	159	171	224	338
Emergency (w/in 2 hours)	18	31	37	16	8	12	15	15	32	12	24	15	22

WASTEWATER PLANT OPERATIONS DATA - MONTHLY

CATEGORY	Units	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19
FLOWES		31	30	31	30	31	31	30	31	30	31	31	28	31
Influent	MG	347.0	321.5	216.7	191.0	189.8	186.1	176.1	180.0	208.8	257.6	407.2	542.7	465.3
Average Day	MGD	11.2	10.7	7.0	6.4	6.1	6.0	5.9	5.8	7.0	8.3	13.1	19.4	15.0
Maximum Day	Date	23-Mar	8-Apr	1-May	4-Jun	1-Jul	19-Aug	16-Sep	2-Oct	29-Nov	1-Dec	17-Jan	14-Feb	6-Mar
Maximum Day Flow	MG	22.2	29.7	7.7	6.6	6.3	6.3	8.2	6.2	16.5	12.6	31.7	44.8	26.3
Minimum Day	Date	1-Mar	30-Apr	31-May	27-Jun	6-Jul	22-Aug	21-Sep	31-Oct	1-Nov	13-Dec	3-Jan	1-Feb	19-Mar
Minimum Day Flow	MG	6.4	7.7	6.7	6.1	6.0	5.5	5.7	5.4	5.5	6.6	7.0	8.8	9.7
Effluent	MG	415.7	342.1	95.8	134.0	133.0	124.4	104.7	68.1	289.9	384.2	497.1	507.1	618.1
River Discharge	MG	398.9	319.8	-	-	-	-	-	-	263.8	378.9	491.6	507.1	618.1
Recycled Flow	MG	23.0	20.2	95.8	134.0	133.0	124.4	104.7	68.1	26.1	5.2	5.5	-	8.5
BIOSOLIDS	Tons	836	605	719	760	798	775	943	745	572	767	700	451	413
Wet Tons Generated from Pond	Tons													
Wet Tons Generated from Plant	Tons	836	605	719	760	798	775	943	745	572	767	700	451	413
% Solids Liquid	%													
% Solids Cake	%													
% Solids Land Application	%													
Wet Tons Hauled Offsite	Tons													
POLYMER USE	Gallons	3,764	2,365	3,816	2,636	1,732	1,936	1,915	4,044	8,169	1,155	868	1,046	4,557
Pond Pre-Flocculators	Gallons	-	282	-	-	-	-	-	59	2,293	-	-	-	2,668
Flocculator Polymer 1	Gallons													
Flocculator Polymer 2	Gallons	1,033	452	-	-	-	-	-	34	784	294	-	-	974
Filter Polymer 1	Gallons	1,963	1,015	2,850	1,677	824	1,361	1,259	2,944	4,503		178	404	460
Filter Polymer 2	Gallons													
Belt Presses	Gallons	769	617	966	959	908	575	656	1,007	589	788	690	642	455
ENERGY														
Total Electricity Used	MWH	759	777	748	813	775	798	765	714	785	684	663	670	864
Purchased from PGE	MWH	350	357	281	270	279	361	331	366	448	342	353	374	504
Produced from Co-Gen	MWH	269	245	282	266	286	258	272	249	254	265	235	207	215
Percent Produced	%	36%	32%	38%	33%	37%	32%	36%	35%	32%	39%	35%	31%	25%
Purchased from Solar	MWH	140	175	200	227	210	179	162	99	83	77	75	89	145
Percent Produced		18%	22%	27%	28%	27%	22%	21%	14%	11%	11%	11%	13%	17%
Purchased Natural Gas	Therms	166	24	22	63	116	68	34	532	516	341	158	407	404
Methane Flared Off	KSCF	79	43	110	308	344	259	391	507	192	266	34	7	14
Stand By Calls	#	40	36	135	52	57	71	40	75	133	55	71	75	52
Violations	#	-	-	-	-	-	-	-	-	-	-	-	-	-

WASTEWATER PLANT MAINTENANCE and LABORATORY DATA - MONTHLY

CATEGORY	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19
<u>Scheduled</u>													
Old	39	12	6	8	9	13	31	20	21	10	6	5	11
New	82	95	89	101	95	87	83	104	78	97	100	82	92
Completed	109	101	87	100	91	69	94	103	89	101	101	76	93
New Balance	12	6	8	9	13	31	20	21	10	6	5	11	10
<u>Unscheduled</u>													
Old	38	30	36	30	27	29	38	32	36	30	24	23	23
New	24	25	14	21	23	30	11	38	17	13	19	12	20
Completed	32	19	20	24	21	21	17	34	23	19	20	12	19
New Balance	30	36	30	27	29	38	32	36	30	24	23	23	24
<u>Total Work Orders</u>													
Old	77	42	42	38	36	42	69	52	57	40	30	28	34
New	106	120	103	122	118	117	94	142	95	110	119	94	112
Completed	141	121	107	125	112	90	111	137	112	120	120	88	112
New Balance	42	42	38	36	42	69	52	57	40	30	28	34	34
<u>LAB ANALYSES</u>													
Sample Type													
Regulatory	208	200	188	146	139	182	132	129	195	175	169	117	164
Process Control	1,103	1,103	796	871	917	890	926	486	1,154	1,087	1,155	1,111	1,199
Special Request	4	1	6	34	2	-	-	13	-	2	-	8	2
Quality Control/Assurance	741	936	489	500	483	622	401	328	1,128	705	776	639	754
TOTAL	2,056	2,240	1,479	1,551	1,541	1,694	1,459	956	2,477	1,969	2,100	1,875	2,119