



Napa Sanitation District

General Manager's Report

for

May, 2018

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NAPA SANITATION DISTRICT

General Manager's Report

Dedicated to Preserving the Napa River for Generations to Come

DATE: July 18, 2018

FROM: Timothy B. Healy, General Manager

SUBJECT: General Manager's Report for May 2018

REGULATORY COMPLIANCE:

Collection System Compliance:	1 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, 2017 – May 31, 2018
Percent Fiscal Year:	91.7%
Operating Expenditures to date:	74.6%
Historical Expenditures to date:	85.8%
Significant Comments:	Historically, the "Operating Expenditures to date" would include 75% of the intrafund transfer from Operating to Capital that was budgeted for the year. However, cash flow in the Capital Fund has been sufficient this year and only 50% of the intrafund transfer budget has been needed. If the 3 rd quarter's transfer was done, the Operating Expenditures would have been 82.2%, closer to the Historical Expenditures to date.

PERSONNEL:

Significant events for the month of May 2018 in the Human Resources Department:

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

Summaries of Operational Highlights are on following pages.

COLLECTIONS:

Significant events for the month of May 2018 in Collection System Maintenance include:

- The District had 1 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 4 cleanouts, repaired 3 cleanouts, capped 1 lateral for abandonment and raised 2 manholes. They also repaired 2 laterals, installed 21 lateral liners and relocated 1 lateral. Additionally, the service response/programs crew completed 135 work orders in support of the grease and odor control program, responded to 47 customer requests for service (17 were NSD problem) and closed out 316 mark and locate request tickets.
- The preventative maintenance crews ran work orders on 156 laterals, cleaned approximately 51,191 feet of main line and CCTV inspected 14 laterals. In addition, the CCTV truck televised 26,139 feet of mainline.

TREATMENT PLANT:

Significant events for the month of May 2018 in the Treatment Plant Department:

Plant Operations:

- For May 2018, the plant's influent flow was 216.7 MG as compared to last year flow for May 2017 of 234.9 MG
- There was no Flow to the Napa River for May 2018.
- The production of recycle quality occurred for 31 days during May 2018 with a total distributed flow of 95.76 MG.
- There was 0.06" rainfall for May 2018 as compared to 0.0" rainfall for May 2017.
- Pond 4 end of the month recorded level reading was 13.65" as compared to May 2017 of 26.04". Total remaining pond capacity for May 2018 was 62.6% as compared to May 2017 remaining capacity of 56.5%.

Power Consumption and Production:

- This May power consumption purchased from PG&E was 281 MWH in comparison to May 2017 purchase of 330 MWH
- Cogeneration unit ran 744 of 744 hours for the month – 100% uptime, averaging 359.75 Kw, producing 282 MWH of energy.
- Solar generation in May was 200 MWH, compared to 175 MWH in April.

Maintenance:

Significant events for the month of May 2018:

Process Maintenance

- Cogeneration unit, BAAQMD performed annual emission source test – in compliance with BAAQMD permit
- Annual inspection of AB #3 and #4/diffusers, RAS-WAS sump
- Annual inspection of Secondary Clarifier #2/replaced 4 weir brushes
- Annual inspection of Secondary Clarifier #3/replaced 3 weir brushes
- Replaced RAS pump 101/AB #3
- MST/rebuilt #3 motor and pump
- Replaced CCB 2 drain valve
- Jockey Pump Recycle/replaced over pressure switch

Projects

- Rebuild Wet-End/Digester Recirc Pump #3:
 - Impeller
 - Impeller back plate
 - Wear ring, O-rings
 - Mechanical seal
- Completed CIP 18737/replace east side flash mixer
- Completed CIP 17725/change discharge piping sump #3

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:

- May 1, 2018: Metals, Cyanide, Mercury, Volatile Organics, Semivolatile Organics

RECYCLING:

Significant events in the Recycling Department for May 2018 include:

- Recycled water delivered for the month of May 2018 (86.582 million gallons), as compared to May 2017 (82.603 million gallons) is higher due to reservoir filling, golf course and commercial landscape demand. Delivered recycled water volume represents the sum of all use site flow meter consumption values.
- Staff approved one connection in the MST and one connection in the LCWD recycled water use areas.
- Staff continued infield staging of biosolids for the reporting period.

POLLUTION PREVENTION:

Significant events in the Pollution Prevention and Outreach Division May 2018 include:

- There were five tours of the treatment plant and five presentations given in May to students from Napa High, Pope Valley Elementary, and community groups.
- NapaSan staff attended mock interviews at Napa High School to foster career readiness skills and promote internships and temporary jobs at NapaSan.
- No reports detailing the total medication collected at Family Drug were received for the month of May. The total amount of unneeded medications collected since the drug takeback program began in September 2010 is 21,107.2 pounds.
- There were 8 ESME Washer Rebates issued this month at \$12.50 each for a total of \$100.

ENGINEERING / CAPITAL PROJECTS / DEVELOPMENT:

Significant events occurring in the Engineering Division for May 2018 include:

- Consultant continued design of the Headworks Equipment Replacement Project.
- Staff began receiving deliveries of floating reservoir covers for the Recycled Water Reservoir Improvements Project.
- Staff issued an RFQ and opened bids for the 2017 Collection System Rehabilitation Project Pavement Restoration.
- Contractor continued construction of the 2018 Collection System Rehabilitation Project.
- Staff continued design of the 2019 Collection System Rehabilitation Project.
- Staff reviewed proposals, conducted interviews, and selected a consultant to provide condition assessment services for the 66-inch Trunk Sewer Rehabilitation Project.
- Staff issued Notice Inviting Bids for the 2018 Manhole Adjustment Project Phase VII.
- Consultant continued design of the Browns Valley Trunk Project.
- Consultant continued design of the West Napa Pump Station Project.
- Consultant continued design of the Pond 1 Dredge Project.

- Staff issued the Notice to Proceed to the contractor for the 2018 Treatment Plant Improvements Project.
- Consultant and Staff continued work on Phase 1A of the Asset Management Program and started Phase 1B.
- Staff reviewed 42 sets of development plans and deemed 21 sets of plans complete. The approved plans consisted of one commercial building, one commercial lateral, one recycled water lateral, twelve tenant improvements, and six residential dwellings.

Budget Status & Cash Summary - July 1, 2017 - May 31, 2018 (91.7% of the year)

<i>Expenditures</i>	FY 17-18 Budget	Encumbrances	Expenditures to date	Committed to date	Remaining Balance	Percent Committed
<u>Operating</u>						
Salaries & Benefits	\$9,581,300	\$12	\$7,698,804	\$7,698,816	\$1,882,484	80.4%
Services & Supplies	6,053,950	773,584	4,155,518	4,929,101	1,124,849	81.4%
Taxes	29,000	-	28,710	28,710	290	99.0%
Debt Service	4,777,450	-	4,775,374	4,775,374	2,076	100.0%
Intrafund Transfers	8,900,000	-	4,450,000	4,450,000	4,450,000	50.0%
Total Operating:	\$29,341,700	\$773,596	\$21,108,406	\$21,882,002	\$7,459,698	74.6%
<u>Capital</u>						
Bldgs/Improvements & Equip	\$33,785,500	\$4,990,058	\$13,016,008	\$18,006,066	\$15,779,434 (1)	53.3%
Intrafund Transfers	3,630,000	-	3,630,000	3,630,000	-	100.0%
Total Capital :	\$37,415,500	\$4,990,058	\$16,646,008	\$21,636,066	\$15,779,434	57.8%
Grand Total Expenditures:	\$66,757,200	\$5,763,654	\$37,754,414	\$43,518,068	\$23,239,132	65.2%

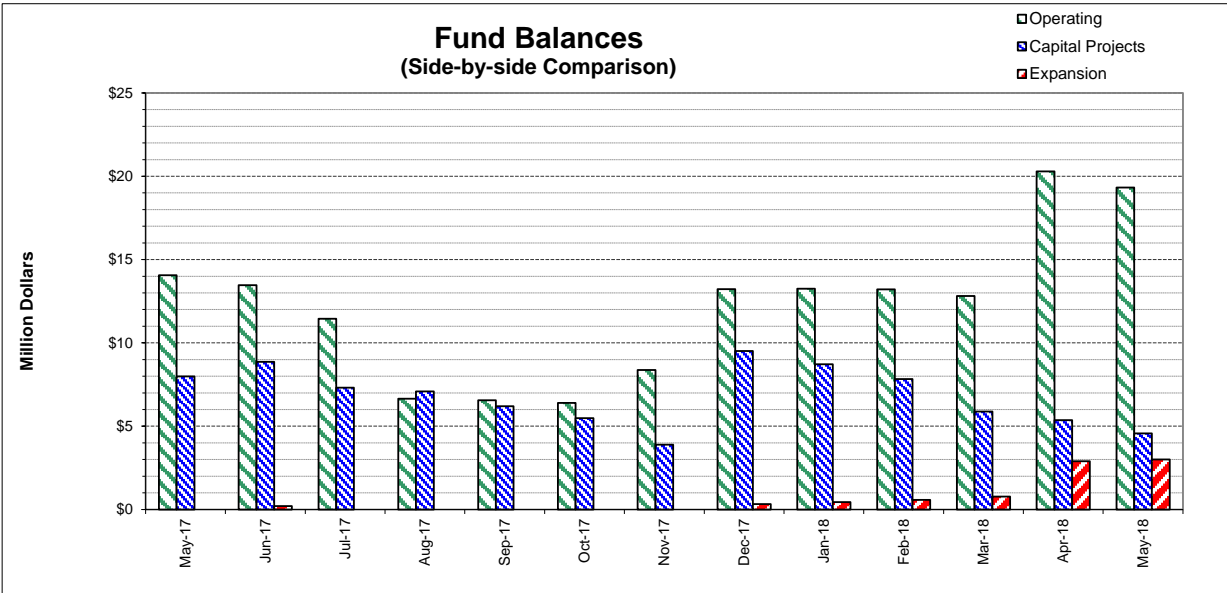
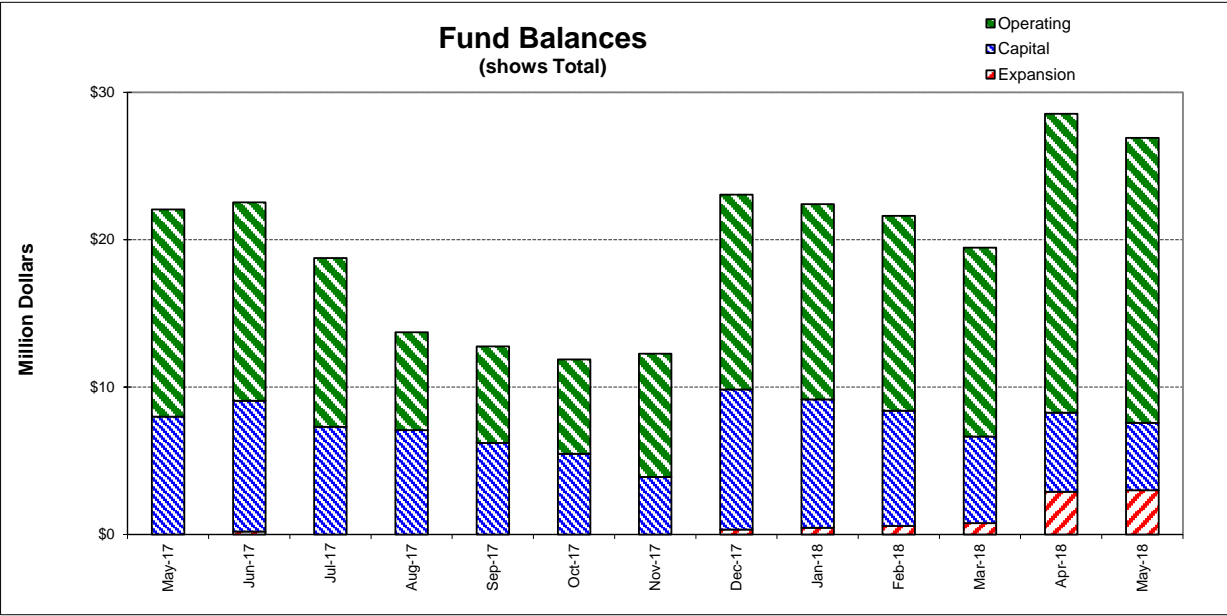
<i>Revenues</i>	FY 17-18 Budget	Encumbrances	Revenues to date	Revenues posted to date	Uncollected Revenue	Percent Collected
<u>Operating</u>						
Use of Money/Property	\$896,000		\$863,082	\$863,082	\$32,918 (2)	96.3%
Intergovernmental	\$15,000		\$0	-	15,000	N/A
Charges for Services	27,429,100		26,423,886	26,423,886	1,005,214	96.3%
Miscellaneous Revenues	61,000		421,216	421,216	(360,216) (3)	690.5%
Donations/Contributions (Capital Labor)	-		762,228	762,228	(762,228) (4)	N/A
Total Operating:	\$28,401,100		\$28,470,412	\$28,470,412	(\$69,312)	100.2%
<u>Capital</u>						
Use of Money/Property	\$0		\$2,917	\$2,917	(\$2,917)	N/A
Capacity Charges	3,630,000		6,496,324	6,496,324	(2,866,324) (5)	179.0%
Intergovernmental	4,076,000		2,144,557	2,144,557	1,931,443	52.6%
Bond/Loan Proceeds	10,137,000		876,045	876,045	9,260,955	8.6%
Sale of Assets	25,000		8,372	8,372	16,628	N/A
Miscellaneous Revenues	-		6,870	6,870	(6,870)	N/A
Intrafund Transfers	12,530,000		8,080,000	8,080,000	4,450,000	64.5%
Total Capital:	\$30,398,000		\$17,615,085	\$17,615,085	\$12,782,915	57.9%
Grand Total Revenue:	\$58,799,100		\$46,085,497	\$46,085,497	\$12,713,603	78.4%

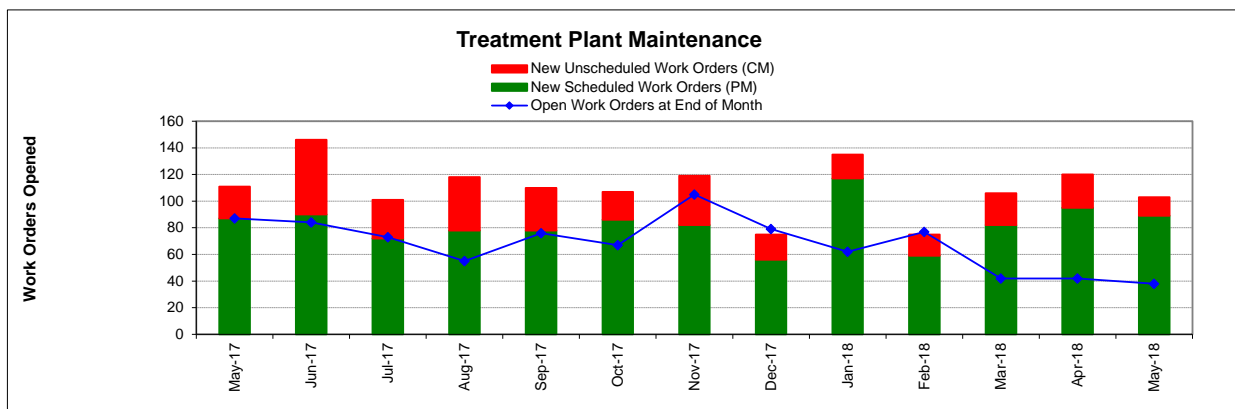
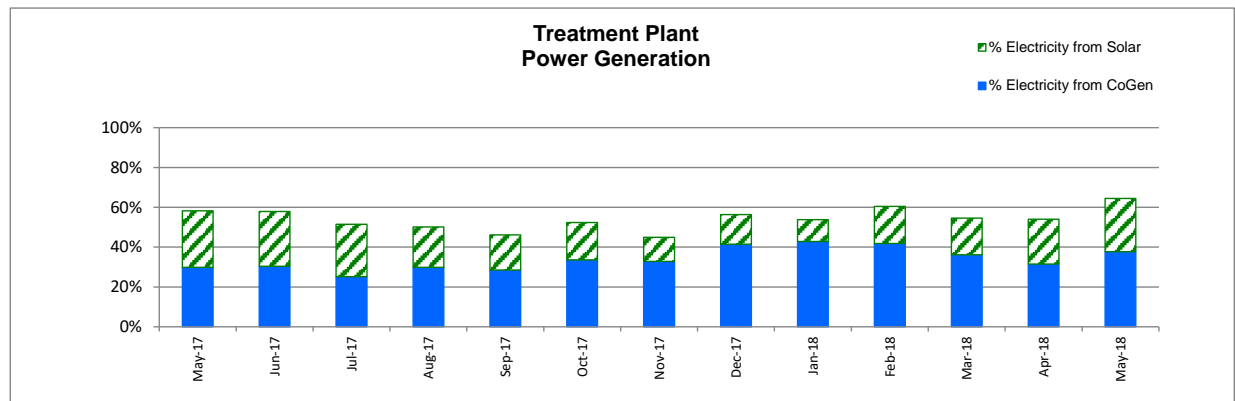
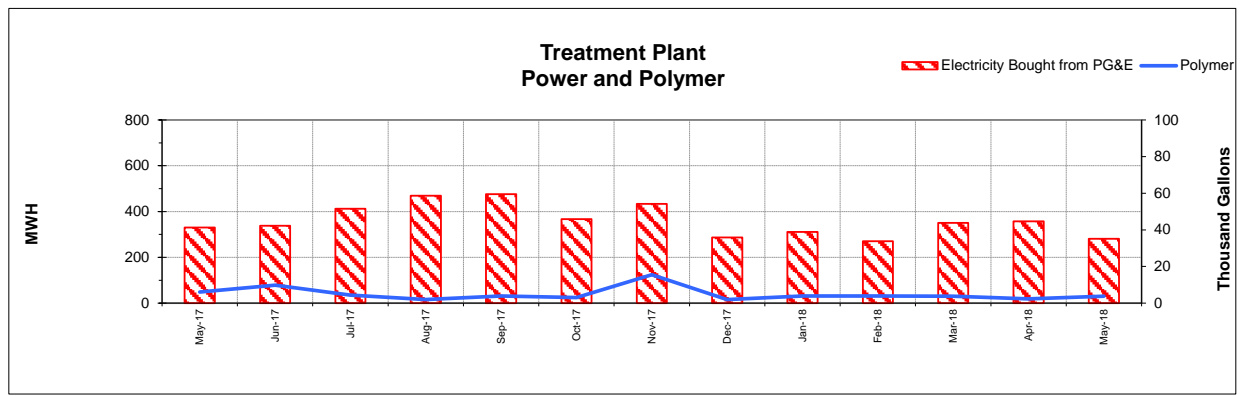
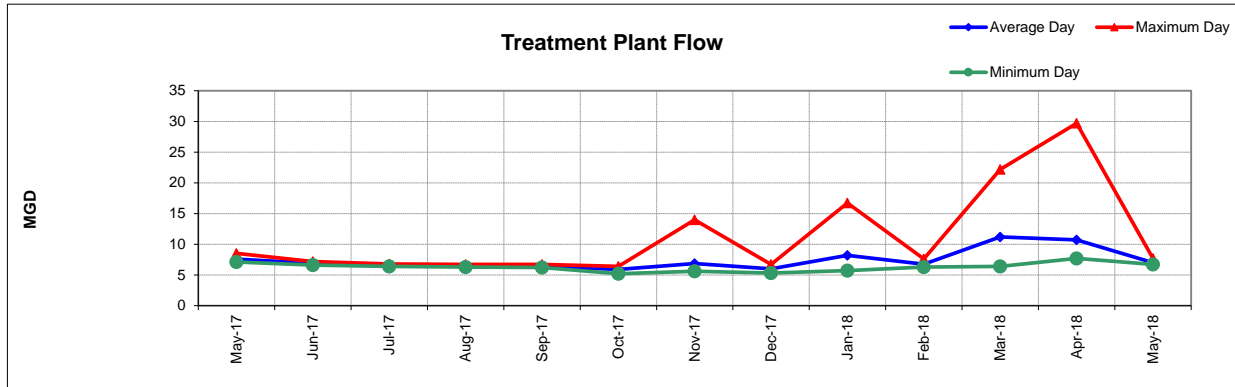
Cash on Hand as of 5/31/18

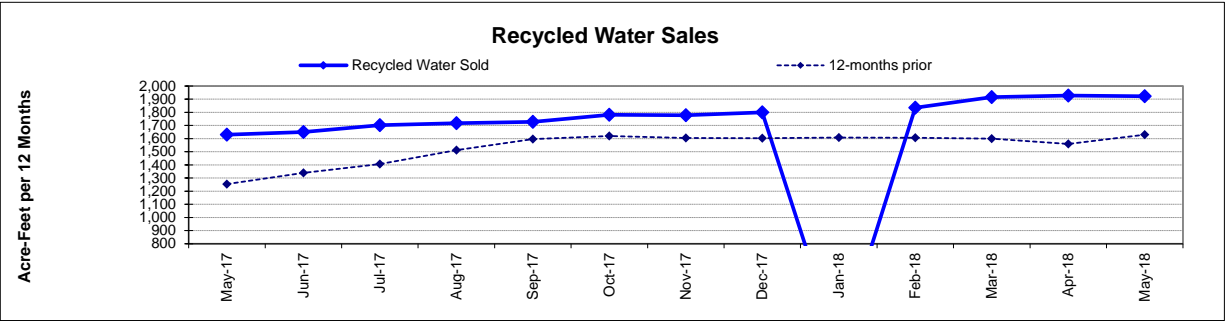
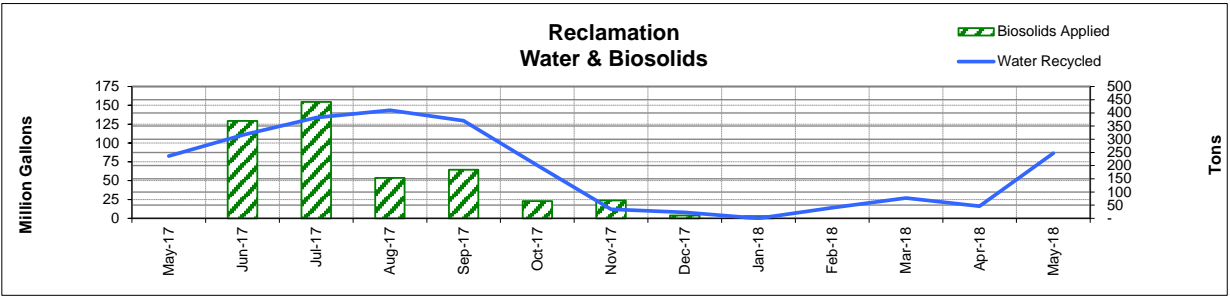
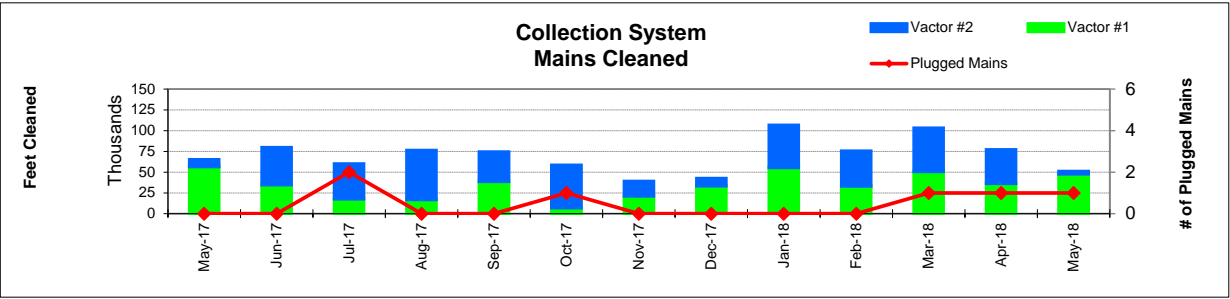
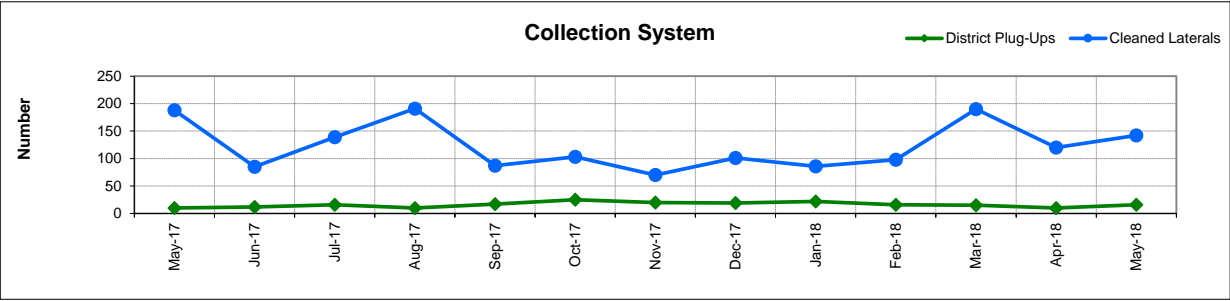
\$26,905,881

**excluding Debt Service restricted funds
5/31/18 -Effective Rate of Return = 1.58%

1. See Capital Project Status report for details
2. Somky Lease revenue has been recorded but has not been collected as of 5/31/18. (\$450K is past due.)
3. Includes reimbursement from NBWRA from FY 16-17
4. In-house Labor for Capital Projects (Contra acct for Salaries)
5. Vista Tulocay Apts and WaterMark Senior Housing added to system







FUND BALANCES - MONTHLY

CATEGORY	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18
<i>(Thousand Dollars)</i>													
7800	14,059	13,463	11,450	6,645	6,560	6,395	8,372	13,220	13,251	13,210	12,818	20,290	19,326
7850	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Operating	14,059	13,463	11,450	6,645	6,560	6,395	8,372	13,220	13,251	13,210	12,818	20,290	19,326
Capital Improvement Projects	7,995	8,867	7,312	7,083	6,205	5,480	3,897	9,514	8,720	7,830	5,877	5,365	4,573
Debt Proceeds	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Capital	7,995	8,867	7,312	7,083	6,205	5,480	3,897	9,514	8,720	7,830	5,877	5,365	4,573
Total Discretionary Funds	22,054	22,330	18,762	13,728	12,765	11,875	12,269	22,734	21,971	21,040	18,695	25,655	23,899
Expansion Fund (Restricted)	-	202	-	-	-	-	-	332	449	577	775	2,898	3,007
Total Restricted Funds	-	202	-	-	-	-	-	332	449	577	775	2,898	3,007
TOTAL ALL FUNDS	22,054	22,532	18,762	13,728	12,765	11,875	12,269	23,066	22,420	21,617	19,470	28,553	26,906

DEVELOPMENT WORKLOAD - MONTHLY

CATEGORY	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18
<u>Phone Requests</u>													
Maps/Drawings	5	5	3	4	5	6	3	3	6	6	6	3	6
Lateral Permits	-	-	-	-	-	-	-	-	-	-	-	-	-
Policy Questions	10	19	11	6	4	7	8	6	4	12	17	5	9
Development Questions	91	95	51	71	28	39	40	23	55	63	39	44	79
Miscellaneous	8	10	11	3	3	2	3	10	8	7	15	11	17
TOTAL	114	129	76	84	40	54	54	42	73	88	77	63	111
<u>Counter Requests</u>													
Maps/Drawings	3	6	2	-	1	-	-	-	1	-	-	-	1
Lateral Permits	10	18	15	6	16	4	5	7	11	9	17	12	10
Policy Questions	5	2	5	2	2	2	1	2	-	2	2	-	1
Development Questions	29	21	8	14	8	7	9	9	7	9	15	11	13
Miscellaneous	5	6	2	2	2	3	-	1	1	1	3	-	1
TOTAL	52	53	32	24	29	16	15	19	20	21	37	23	26
<u>Initial Request (Referrals)</u>	22	20	10	11	14	11	17	5	7	13	20	15	20
<u>Connection Permits Issued</u>													
Residential Permits	1	12	1	4	2	1	1	5	3	12	19	16	3
Commercial Permits	4	2	2	5	4	2	2	3	5	3	1	3	2
Industrial Permits	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMITS	5	14	3	9	6	3	3	8	8	15	20	19	5
Residential Units	2	35	1	4	2	1	1	5	3	12	336	16	3
Commercial Units	4	7	2	6	4	2	2	3	5	3	1	102	174
TOTAL UNITS	6	42	3	10	6	3	3	8	8	15	337	118	177
<u>Annexations</u>													
Submitted	-	-	-	-	-	-	-	-	-	-	-	-	-
Acreage	-	-	-	-	-	-	-	-	-	-	-	-	-
<u>Plans Reviewed</u>													
<u>Subdivisions/Sites</u>													
First Submittal	6	8	10	5	10	6	2	3	9	19	18	14	4
Second Submittal	8	4	5	7	1	1	1	4	2	5	9	6	8
Third Submittal	2	8	4	2	1	7	2	3	5	4	6	2	2
<u>Building/Tenant Improvements</u>													
First Submittal	9	17	8	19	15	9	5	10	5	16	14	7	19
Second Submittal	4	5	9	6	5	9	10	3	1	2	9	1	7
Third Submittal	7	8	6	7	3	2	7	5	2	3	3	4	2
<u>Miscellaneous Plan Reviews</u>	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PLANS REVIEWED	36	50	42	46	35	34	27	28	24	49	59	34	42

INSPECTION WORKLOAD - MONTHLY

CATEGORY	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18
<u>CONSTRUCTION</u>													
Locating Sewers	-	-	-	-	-	1	-	-	-	-	-	-	-
Permit Processing	-	1	-	-	-	-	-	-	-	-	-	-	-
Preconstruction Meetings	1	2	3	2	-	-	1	1	7	7	5	5	7
Inspections - Mains	-	4	-	-	2	-	-	5	-	20	6	2	4
Inspections - Manholes	1	9	3	3	40	72	45	62	41	38	13	16	25
Inspections - Laterals	3	8	11	8	6	2	7	15	23	26	23	17	25
Inspections - Cleanouts	-	2	4	3	4	4	11	10	31	36	24	26	43
Inspections - Review Video	2	-	3	-	-	-	-	-	-	-	1	2	-
Demo - Septic Tanks	-	-	-	-	-	-	-	-	-	-	-	-	-
Demo - Buildings	-	-	-	-	-	-	-	-	-	-	-	-	-
Update Record Drawings	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	7	26	24	16	52	79	64	93	102	127	72	68	104
<u>MISCELLANEOUS</u>													
Meter Readings	-	-	-	-	-	-	-	-	11	24	-	1	13
Washdown Facility Inspections	-	-	-	-	-	-	-	-	-	-	-	12	-
General Customer Assistance	11	30	34	28	30	31	30	25	26	18	38	11	28
City of Napa Water Discharge	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	11	30	34	28	30	31	30	25	37	42	38	24	41
<u>SPECIAL PROJECTS</u>													
	0	22	21	23	36	24	6	1	7	0	5	6	0

POLLUTION PREVENTION WORKLOAD - MONTHLY

CATEGORY	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18
<u>Outreach Activities</u>													
Plant Tours Conducted	4	1	2	1	9	1	2	0	3	0	1	5	5
Presentations Made	5	1	0	0	3	0	0	0	0	0	2	1	5
Total Outreach Activities	9	2	2	1	12	1	2	-	3	-	3	6	10
<u>Inspections Conducted</u>													
Food Service Facilities	-	-	-	-	-	-	-	-	6	22	64	51	10
Auto Body & Car Wash	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	1	-	-	-	-	-	-
Total Inspections	-	-	-	-	-	-	1	-	6	22	64	51	10
<u>Compliance Issues</u>													
NOVs Issued	-	1	-	-	1	2	-	1	-	3	2	2	1
NOEs Issued	1	-	-	1	1	1	-	1	1	3	-	1	-
Non-Compliant-FOG	-	-	-	-	-	-	-	1	-	-	-	-	-
Total Compliance Issues	1	1	-	1	2	3	-	3	1	6	2	3	1
<u>Pollution Prevention</u>													
Clothes Washer Rebates	28	21	1	1	19	-	-	-	25	14	21	-	8
Toilet Retrofit Rebates	2	7	16	6	3	-	-	-	-	-	-	-	-
Pharmaceuticals Diverted (in lbs)	302	368	-	-	-	59	63	-	35	-	82	66	-

RECYCLED WATER DELIVERIES - MONTHLY

	Acres	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18
MONTHLY (MG)														
Water Sold														
Golf Courses	405.0	53.481	66.261	73.994	58.595	53.035	26.903	5.504	6.253	-	6.152	2.748	3.320	52.726
Cemeteries	57.1	0.705	0.754	0.834	1.116	0.634	0.833	0.193	0.003	-	0.005	0.154	0.385	3.183
Parks	18.5	0.624	1.020	0.902	0.866	0.650	0.333	0.020	-	-	-	-	-	0.823
Schools	21.0	1.396	2.604	2.250	2.178	1.613	1.485	0.195	0.019	-	0.255	0.198	0.242	1.727
Commerical	167.6	15.246	17.491	17.468	17.399	15.227	13.665	4.387	1.402	-	1.835	1.765	3.169	9.893
Vineyards	564.0	4.868	10.709	19.143	30.814	18.019	16.506	1.766	0.225	-	5.695	21.988	8.001	6.377
Trucked Water	175.0	0.027	0.051	0.474	0.602	0.274	0.197	0.030	0.014	-	0.017	0.029	0.880	0.143
Subtotal Sales	1,408.2	76.347	98.891	115.065	111.571	89.451	59.922	12.095	7.916	-	13.960	26.881	15.996	74.872
District Use														
Jameson	330.0	-	-	7.298	18.483	20.751	-	-	-	-	0.077	-	-	-
Somky	213.0	6.256	11.738	11.488	13.426	19.372	10.364	-	-	-	-	-	-	11.710
Fagundes/Airport	50.5	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal District	593.5	6.256	11.738	18.786	31.910	40.122	10.364	-	-	-	0.077	-	-	11.710
TOTAL DELIVERED	2,001.7	82.603	110.628	133.851	143.481	129.574	70.286	12.095	7.916	-	14.037	26.881	15.996	86.582
ANNUAL (AF)														
Water Sold														
Golf Courses	405.0	985	1,013	1,047	1,033	1,044	1,048	1,045	1,064		1,083	1,091	1,093	1,091
Cemeteries	57.1	14	14	14	15	13	15	16	16		16	16	17	25
Parks	18.5	16	16	14	13	13	13	14	14		14	14	14	14
Schools	21.0	32	32	32	33	33	36	36	36		37	37	38	39
Commerical	167.6	300	301	309	309	310	322	325	328		329	333	335	318
Vineyards	564.0	279	270	281	308	310	342	336	336		353	420	423	427
Trucked Water	175.0	4	4	5	5	5	6	6	5		5	5	8	8
Subtotal Sales	1,408.2	1,630	1,650	1,702	1,717	1,728	1,782	1,778	1,799	-	1,835	1,916	1,928	1,923
District Use														
Jameson	330.0	163	158	164	183	182	143	143	143		143	143	143	143
Somky	213.0	241	268	254	230	222	223	223	223		223	223	223	240
Fagundes/Airport	50.5	-	-	-	-	-	-	-	-		-	-	-	-
Subtotal District	593.5	404	427	419	413	404	366	366	366	-	366	366	366	383
TOTAL DELIVERED	2,001.7	2,034	2,077	2,121	2,130	2,132	2,148	2,144	2,165	-	2,202	2,282	2,294	2,306

BIOSOLIDS HANDLING - MONTHLY

Site	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18
<u>Land Applied by NSD</u>													
Somky													
Airport/Fagundes													
Jameson Canyon	-	370	442	153	184	65	68	11	8	-	-	-	-
Subtotal by NSD	-	370	442	153	184	65	68	11	8	-	-	-	-
<u>Land Applied by Contractor</u>													
Somky													
Airport/Fagundes													
Jameson Canyon													
Subtotal by Contractor	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Land Applied	-	370	442	153	184	65	68	11	8	-	-	-	-
Off Site (Contractor)													
<hr/>													
Total (tons)	-	370	442	153	184	65	68	11	8	-	-	-	-

COLLECTION SYSTEM MAINTENANCE - MONTHLY

CATEGORY	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18
<u>Plugups</u>													
Total Calls	37	44	43	36	42	54	63	48	62	49	67	40	44
Business Hours	21	25	25	27	26	33	38	27	40	35	53	23	32
After Hours	16	19	18	9	16	21	25	21	22	14	16	17	12
District's	10	12	16	10	17	25	20	19	22	16	15	10	16
Property Owner's	27	32	27	26	25	29	43	29	40	33	40	30	28
Plugged Main Lines											1	1	1
Run Lateral w/Eel	188	85	139	191	87	103	70	101	86	98	190	120	142
<u>Cleaning (feet of sewer)</u>													
Vactor #1	56,860	35,077	18,053	17,179	38,849	7,417	21,500	33,612	55,782	33,391	51,027	36,507	47,937
Vactor #2	7,819	44,357	41,749	58,712	35,140	50,621	17,254	8,642	50,441	41,842	51,666	40,119	2,708
Hydro								1,251					
Rodder									765				
Total (feet)	64,679	79,433	59,802	75,891	73,989	58,038	38,754	43,505	106,988	75,233	102,693	76,625	50,645
<u>Cleaning Days</u>													
Vactor #1	16	12	8	8	14	3	10	14	18	11	15	14	20
Vactor #2	4	16	13	23	11	18	10	5	14	13	18	13	1
Hydro													
Rodder									1				
<u>Feet/day</u>													
Vactor #1	3,250	2,850	2,850	2,450	2,950	2,750	1,950	2,300	3,250	3,150	3,100	2,850	2,400
Vactor #2	3,550	2,900	2,250	2,150	2,750	2,450	2,150	2,400	3,100	3,050	3,400	2,600	2,400
Vactor #2	1,950	2,750	3,200	2,550	3,200	2,800	1,750	1,750	3,600	3,200	2,850	3,100	2,700
Hydro													
Rodder									750				
<u>Video Inspections</u>													
Mains (feet)	25,066	24,881	15,731	15,789			10,767	6,320	17,644	12,878	21,714	2,021	26,140
Laterals (each)	251	205	265	246	170	184	172	186	114	122	211	179	197
<u>Construction (each)</u>													
Cleanouts	16	7	31	17	7	4	6	11	15	16	8	6	10
Laterals	4	15		9	1	1	1	1	1	4	1	10	24
Mains								1		1			
Manholes												1	2
Other	50			2		57	79					3	
<u>USA Markings</u>													
Regular (w/in 2 days)	297	258	215	264	233	252	363	210	281	277	266	280	282
Emergency (w/in 2 hours)	3	6	5	3	7	33	9	13	15	3	18	31	37

WASTEWATER PLANT OPERATIONS DATA - MONTHLY[illegible]

WASTEWATER PLANT MAINTENANCE and LABORATORY DATA - MONTHLY

CATEGORY	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18
<u>Scheduled</u>													
Old	75	41	37	28	17	33	33	61	39	27	39	12	6
New	87	90	72	78	78	86	82	56	117	59	82	95	89
Completed	121	94	81	89	62	86	54	78	129	41	109	101	87
New Balance	41	37	28	17	33	33	61	39	27	39	12	6	8
<u>Unscheduled</u>													
Old	61	46	47	45	38	43	34	44	40	35	38	30	36
New	24	56	29	40	32	21	37	19	18	16	24	25	14
Completed	39	55	31	47	27	30	27	23	23	13	32	19	20
New Balance	46	47	45	38	43	34	44	40	35	38	30	36	30
<u>Total Work Orders</u>													
Old	136	87	84	73	55	76	66	105	79	62	77	42	42
New	111	146	101	118	110	107	119	75	135	75	106	120	103
Completed	161	149	112	132	89	117	81	101	152	60	141	121	107
New Balance	87	84	73	55	76	67	105	79	62	77	42	42	38
<u>LAB ANALYSES</u>													
<u>Sample Type</u>													
Regulatory	177	230	173	193	194	156	178	163	123	190	208	200	188
Process Control	820	1,107	1,024	1,104	1,091	1,137	1,220	1,139	1,071	1,080	1,103	1,103	796
Special Request	6	200	-	-	7	8	4	6	4	2	4	1	6
Quality Control/Assurance	523	574	464	549	428	420	1,110	874	692	794	741	936	489
TOTAL	1,526	2,111	1,661	1,846	1,720	1,721	2,512	2,182	1,890	2,066	2,056	2,240	1,479

**Summary of NSD Capital Project Status
through 05-31-18**

Proj #	Description	FY 17-18 Budget	FY 16-17 Carryovers	Adj.	Final FY 17-18 Budget	Encumbrance	Costs Paid to Date	Budget Remaining	% Budget Expended
	<u>COLLECTION SYSTEM</u>								
13701	Main Line Sewer Rehab	91,800		(40,000)	51,800	-	41,237	10,563	80%
13702	Manhole Raising/Rehab	206,000			206,000	-	157,203	48,797	76%
13703	Lateral Replacement/Rehab	74,500		40,000	114,500	-	103,953	10,547	91%
13704	Cleanouts Installation/Rehab	90,000			90,000	457	74,172	15,371	82%
13705	I&I Reduction Program	207,000	29,000		236,000	187,965	22,260	25,775	9%
14703	Browns Valley Rd & First St	9,237,000	3,004,750	(1,000,000)	11,241,750	206,954	175,830	10,858,966	2%
17702	Upper Lateral Rehab - Basin L (Pilot #2)	155,300		(110,000)	45,300	-	23,687	21,613	52%
17704	Infltrtn Rehab - SSMH/PL (CI-)	-	73,900		73,900	-	-	73,900	-
17705	Soscol Ave (8th to Oil Co Rd)	950,000	415,450		1,365,450	25,437	1,320,850	19,163	97%
17707	66-inch Trunk CCTV Inspection	-	149,350	90,000	239,350	18,392	218,226	2,732	91%
17708	Basin G - I&I Reduction #1	2,942,000	1,504,100		4,446,100	4,622	3,720,028	721,450	84%
17734	Homewood/Westwood I/I Reduction	-	60,300		60,300	-	17,537	42,763	29%
18701	I&I Smoke Testing	100,000			100,000	-	263	99,737	0%
18702	Collection System Asset Management Software	350,000			350,000	-	174	349,826	0%
18703	Upper Lateral Rehab - Pilot #4	5,000			5,000	-	33	4,968	1%
18704	Manhole Rehab - Nipak - Basin H	284,600		(5,000)	279,600	-	182,831	96,769	65%
18705	Sewer System Inflow/Infiltration 2018	1,650,000		834,000	2,484,000	2,014,300	108,733	360,967	4%
18706	Sewer System Inflow/Infiltration 2019	20,000			20,000	-	3,594	16,406	18%
	<u>COLLECTION SYSTEM - EQUIPMENT</u>								
18707	Locatable Mini-Camera #2 Replacement	11,100			11,100	-	8,836	2,265	80%
18708	Manhole - Smart Covers (4)	25,000			25,000	-	2,398	22,602	10%
18709	Vehicle 504 - TV Truck	270,000			270,000	-	187,154	82,846	69%
18735	Permaliner Picote	-		20,000	20,000	-	15,476	4,524	77%
18738	Combination Truck Veh #529B	-		575,000	575,000	3,600	559,639	11,761	97%
	<u>LIFT STATIONS</u>								
17711	West Napa PS - Rehab	-	1,746,365		1,746,365	888,725	73,329	784,311	4%
	<u>TREATMENT</u>								
13745	Pond 1 Dredge	400,000			400,000	16,163	11,608	372,229	3%
16708	Algae to Digester/Thermal Stdy	-	46,800		46,800	22,913	698	23,189	1%
	<u>TREATMENT - EQUIPMENT</u>								

**Summary of NSD Capital Project Status
through 05-31-18**

Proj #	Description	FY 17-18 Budget	FY 16-17 Carryovers	Adj.	Final FY 17-18 Budget	Encumbrance	Costs Paid to Date	Budget Remaining	% Budget Expended
13735	Dual Fuel Boiler Burner	155,300			155,300	-	-	155,300	-
13741	Secondary PS Pump Rebuild (3)	38,800			38,800	-	31,797	7,003	82%
13743	Risidual Analyzers (Deox) Replacements	5,000	3,500	40,000	48,500	-	43,925	4,575	91%
15711	Rotork Actuator Replacement	-	7,600		7,600	-	-	7,600	-
15713	Aeration Basin Instrmntn/Ctrl	-	10,000		10,000	-	3,280	6,720	33%
16714	High Voltage System Repairs	-	66,500	(66,500)	-	-	-	-	-
17713	Secondary PS VFD Rplcmnt (3)	55,400	51,150	(106,550)	-	-	-	-	-
17714	WWTP MP - 3W Sys Imprvmnts	440,000	36,100	(476,100)	-	-	-	-	-
17715	Turbidimeters (7) Tertiary Rplcmnts	20,000	15,400		35,400	14,041	19,405	1,954	55%
17718	Ener Audit - LED Pole/Arm Mounted Fixtures	-	44,750	(40,000)	4,750	4,297	267	186	6%
17725	Main - Sump #3 Modification	-	10,000		10,000	4,745	4,052	1,202	41%
18710	3W Pipeline - Soscol PS to Plant - Rehab	33,300			33,300	-	-	33,300	-
18711	3W Strainer	83,200			83,200	30,168	-	53,032	-
18712	3W VFD	62,100		(62,100)	-	-	-	-	-
18713	Primary Influent Pipe - East Gallery	250,000		(250,000)	-	-	-	-	-
18714	Distillation System	6,000			6,000	-	-	6,000	-
18715	Muffle Furnace - Replacement	15,000		(10,000)	5,000	-	-	5,000	-
18716	Rotork Actuator Replacement	91,800			91,800	-	24,616	67,184	27%
18717	Septage Card Reader Replacement	21,400			21,400	6,175	1,390	13,835	6%
18718	Secondary Clarifier Mech/Struct Rehabilitation	50,000			50,000	-	50,000	-	100%
18719	Filter Flow Control - Rotork Valves	46,600			46,600	-	-	46,600	-
18720	Neuros Blowers Rebuild	62,100			62,100	-	-	62,100	-
18721	CCB #3 Effluent Gate	5,000		(5,000)	-	-	-	-	-
18722	FOG Station Water Heater	5,000			5,000	-	-	5,000	-
18723	Pond 4 PS - Repair Leak	24,000		(24,000)	-	-	-	-	-
18724	Filter 1-4 Air Valve	10,000		(10,000)	-	-	-	-	-
18725	Belt Press Hydraulic Actuator Replace	20,000			20,000	-	-	20,000	-
18734	Boat Motor Vehicle 302	-		10,000	10,000	-	7,407	2,593	74%
18739	Pond 1 Transformer Repair	-		25,000	25,000	-	16,463	8,537	66%
18740	Chemical Storage Building Piping Replacement	-		25,000	25,000	-	-	25,000	-
	TREATMENT - STRUCTURES								
17726	Headworks Equipment Rehab/Replacment	250,000	42,100		292,100	45,307	237,966	8,827	81%
18726	Building HVAC and Lab Ventilation	500,000		(500,000)	-	-	-	-	-
18727	Earthquake - Structural Repair	300,000		350,000	650,000	-	580,603	69,397	89%

**Summary of NSD Capital Project Status
through 05-31-18**

Proj #	Description	FY 17-18 Budget	FY 16-17 Carryovers	Adj.	Final FY 17-18 Budget	Encumbrance	Costs Paid to Date	Budget Remaining	% Budget Expended
18728	Roof Rplcmnt - Solids Handling/Digester Tower	232,900		(65,000)	167,900	-	166,935	965	99%
18736	Treatment Plant Project 2018	-		1,500,250	1,500,250	1,007,755	319,887	172,608	21%
18737	Flash Mixer Replacement	-		45,000	45,000	-	36,478	8,522	81%
	SCADA								
18729	SCADA MP Project #1 - Network Monitoring	50,000			50,000	-	163	49,838	0%
	RECYCLING - DISTRICT								
16716	Line Recycled Water Reservoir	1,800,000	169,550	650,000	2,619,550	366,299	1,910,590	342,662	73%
18730	Jameson 24" Flow Meter Rehab	6,200			6,200	-	-	6,200	-
18731	Coombsville Truck Fill Station	100,000			100,000	94	34,952	64,954	35%
	RECYCLING - EXPANSION								
13727	North Bay Wate Reuse Project	150,000			150,000	4,980	80,485	64,535	54%
14726	MST RW Pipeline Construction	-	5,000		5,000	-	2,573	2,427	51%
16722	MST RW Pipeline Extension	2,800,000	(158,465)		2,641,535	116,669	2,167,213	357,653	82%
	OTHER								
13729	Development Technical Support	239,900			239,900	-	233,135	6,765	97%
18732	Box Culvert - Fugundes Emergency Access	5,000			5,000	-	4,718	282	94%
18733	GPS Handheld	15,000			15,000	-	7,958	7,042	53%
GRAND TOTAL ALL PROJECTS		\$25,018,300	\$7,333,200	\$1,434,000	\$33,785,500	\$4,990,058	\$13,016,008	\$15,779,438	39%