



Napa Sanitation District

General Manager's Report

for

February, 2017

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NAPA SANITATION DISTRICT

General Manager's Report

Dedicated to Preserving the Napa River for Generations to Come

DATE: April 5, 2017

FROM: Timothy B. Healy, General Manager

SUBJECT: General Manager's Report for February, 2017

REGULATORY COMPLIANCE:

Collection System Compliance:	3 Category 1 SSO's, 0 Category 2 SSO's and 0 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, 2016 – February 28, 2017
Percent Fiscal Year:	66.7%
Operating Expenditures to date:	56.7%
Historical Expenditures to date:	68.7%
Significant Comments:	Historically, the intrafund transfers from Operating to Capital were done on a quarterly basis. Last fiscal year, the transfer was done all at once, which increased the Operating Expenditures significantly. This fiscal year, only 25% of the transfer has been done due to the low cashflow in the Operating fund at the beginning of the year. If the 2 nd quarter's transfer was done, the Operating Expenditures would have been 64.4%, closer to the Historical Expenditures to date.

PERSONNEL:

Significant events for the month of February, 2017 in the Human Resources Department:

New Hires:	None
Separations:	None
Promotions:	None
Recruitment Activities:	Accepting applications for Engineering Intern, Collection System Worker Temporary, Laboratory Intern and Operator-in-Training Volunteer positions.
Injuries:	None

Summaries of Operational Highlights are on following pages.

COLLECTIONS:

Significant events for the month of February 2017 in Collection System Maintenance include:

- The District had 3 Category 1 Sanitary Sewer Overflows (SSO's), 0 Category 2 SSO's and 0 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 drain pipe 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 category 1 overflows occurred during severe rain events on February 7th, 9th and 20th. The total overflow amount over the three storms was 226,768 gallons with 199,831 gallons coming from the storm on the 7th. However, using vacuum and bypass equipment, crews prevented 1,602,390 gallons from overflowing during these rain events. These storms also caused overflows into the Lake Park Storm Water Detention Basin.
- The repair crew installed 6 cleanouts, repaired/rehabilitated 1 sewer laterals and repaired 3 cleanouts. Additionally, the service response programs crew completed 73 work orders in support of the grease and odor control program, responded to 51 customer requests for service (14 were NSD problem) and closed out 184 mark and locate request tickets.
- The preventative maintenance crews ran work orders on 109 laterals, cleaned approximately 48,077 feet of main line and CCTV inspected approximately 6,398 feet of main line and 21 laterals.

TREATMENT PLANT:

Significant events for the month of February 2017 in the Treatment Plant Department:

Plant Operations

- For February 2017, the plant's influent flow was 634.5 MG as compared to last year flow for February 2016 of 252.6 MG
- Total flow to the Napa River for February 2017 was 718.6 MG as compared to February 2016 flow of 306.2 MG.
- The production of recycle quality water did not occur during February 2017.
- This February power consumption purchased from PG&E was 683 MWH in comparison to February 2016 purchase of 300 MWH.
- There was 8.40" rain fall for February 2017 as compared to 1.00" rain fall for February 2016.
- Pond 4 end of the month recorded level reading was 84.65" as compared to February 2016 of 38.96". Total remaining pond capacity for February 2017 was 6.7% as compared to February 2016 remaining capacity of 50.6%.

Maintenance:

Significant events for the month of February, 2017:

Cogeneration Performance

- Cogeneration Unit was removed for complete over-haul

Process Maintenance

- Changed media in siloxane filters
- Replace torque switch on Floc drive #1
- Belt filter press poly pump #1 replaced pump stator
- Belt filter press poly pump #2 replaced bushing on drive pulley
- Gas Compressor Service;
 - Change crank case oil and filter
 - Remove all inlet and discharge valves; inspect, clean and lap
 - Inspect and replace suction gas filter element
 - Inspect and clean suction auto drain

Projects

- Completed phase II of CIP 13741- rebuilding Secondary Effluent Motor and Pump
- Removed and overhauled and installed pump and motor #1 at pond 4 station
- Installed temporary pumping system at pond 4 station

Standby Power

- Plant generators operated for 4.3 hours due to shutdown of utility for tie-in of solar system
- Riverpark operational testing only
- West Napa operated for 1.3 hours in emergency use
- Stonecrest operated for .5 hours in emergency use

Influent Pumps

- Pumps are all operational

Laboratory:

Significant events for the month of February, 2017 include:

Monthly River Discharge Effluent (EFF-001) monitoring was conducted on February 8th, 2017.

Quarterly Oil and Grease monitoring of EFF-001 was conducted on February 8th, 2017.

Quarterly Chronic Toxicity monitoring of EFF-001 was conducted on February 21st, 2017.

Sample results indicated constituent concentrations were within the District NPDES Permit limits.

Monthly Influent (INF-001) monitoring was conducted on February 8th, 2017. Sample results indicated no unusual results and were within local limits.

Monthly Acute Bioassay monitoring was sampled and analyzed from February 5th through February 9th, 2017. Monitoring results indicated NPDES Permit compliance with 100% survival in the effluent and 100% survival in the control.

Semiannual and Quarterly Biosolids (BIO-001) monitoring was conducted from January 31st through February 1st, 2017 during normal operating conditions. All biosolid sample results indicated no unusual results and were within EPA 503 Table 1 & Table 3 ceiling concentration limits.

Monthly Receiving Water (RSW) monitoring was conducted on February 14th. Sample results indicated no unusual results. pH monitoring results required under the District's NPDES Permit (Order#R2-2016-0035) are not available. See the Quality Assurance Corrections & Clarifications Summary for more details.

RECYCLING:

Significant events in the Recycling Department for February 2017 include:

- Recycled water delivered for the month of February 2017 (0.469 million gallons), as compared to February 2016 (1.012 million gallons) is lower due to vineyard demand. Delivered recycled water volume represents the sum of all use site flow meter consumption values.
- Staff provided LCWD and MST recycled water customer's use site supervisor training.
- Staff continued encapsulating biosolids on the Jameson Reuse Site due to wet weather.

POLLUTION PREVENTION:

Significant events in the Pollution Prevention Department for February 2017 include:

- There were 4 plant tours given to student and community groups in February.
- Two classroom presentations were conducted in February at Napa Junction Elementary.
- The Napa Safe Medication Collection Program collected 201 pounds of unneeded medications. The total amount of unneeded medications collected since program inception in September 2010 is 19,737 pounds.
- The District issued 4 Toilet Rebates at \$100 each for a total of \$400.
- The District issued 21 ESME Washer Rebates at \$12.50 each for a total of \$262.50.

ENGINEERING / CAPITAL PROJECTS / DEVELOPMENT:

Significant events occurring in the Engineering Department for February 2017 include:

- Consultant continued design of the Browns Valley Trunk Project.
- Consultant continued developing a hydraulic model for the District's recycled water distribution system.
- Consultant completed design, and Staff issued the Notice Inviting Bids for the MST Recycled Water Pipeline Expansion Project.
- Consultant completed design, and Staff issued the Notice Inviting Bids for the Soscol/Sousa Trunk Rehabilitation Project.
- Consultant continued work on the Asset Management Plan.
- Consultant continued design of the Recycled Water Reservoir Improvements Project.
- Staff conducted a public bid opening for the 2017 Collection System Rehabilitation Project.
- Homewood/Westwood I/I Reduction:
 - a. Staff continued design of the Homewood/Westwood I/I Reduction Project.
 - b. Staff completed design and issued Notice to Proceed for the Homewood/Westwood Manhole Rehabilitation Project.
- Consultant continued preliminary design work for the Headworks Equipment Rehabilitation Project.
- Staff continued design of the LED Pole/Arm Fixture Replacement project.
- The contractors continued construction of the following projects:
 - a. Aeration Basin Diffusers, Instrumentation and Controls Project
 - b. Stationary Gas Detectors – Phase II Project
- Staff reviewed 25 sets of development plans and deemed 4 sets of plans complete. The approved plans consisted of one residential lateral, two residential buildings, and one recycled water lateral.

Budget Status & Cash Summary - July 1, 2016 - February 28, 2017 (66.7% of the year)

<i>Expenditures</i>	FY 16/17 Budget	Expenditures to date	Encumbrances	Committed to date	Remaining Balance	Percent Committed
<u>Operating</u>						
Salaries & Benefits	\$9,371,370	\$5,533,882	\$973	\$5,534,855	\$3,836,515	59.1%
Services & Supplies	6,057,110	3,105,294	970,185	4,075,479	1,981,631	67.3%
Taxes	28,250	14,115	-	14,115	14,135	50.0%
Debt Service	4,773,050	4,676,340	-	4,676,340	96,710 (1)	98.0%
Intrafund Transfers	8,900,000	2,225,000	-	2,225,000	6,675,000 (2)	25.0%
Total Operating:	\$29,129,780	\$15,554,632	\$971,158	\$16,525,790	\$12,603,990 (3)	56.7%
<u>Capital</u>						
Bldgs/Improvements & Equip	\$19,283,950	\$6,159,036	\$2,511,640	\$8,670,677	\$10,613,273 (4)	45.0%
Intrafund Transfers	5,512,000	3,677,258	-	3,677,258	1,834,742	66.7%
Total Capital :	\$24,795,950	\$9,836,295	\$2,511,640	\$12,347,935	\$12,448,015	49.8%
Grand Total Expenditures:	\$53,925,730	\$25,390,926	\$3,482,798	\$28,873,725	\$25,052,005	53.5%

<i>Revenues</i>	FY 16/17 Budget	Collected to date	Encumbrances	Received to Date	Uncollected Revenue	Percent Collected
<u>Operating</u>						
Use of Money/Property	\$794,000	\$588,840		\$588,840	\$205,160	74.2%
Intergovernmental	\$0	\$11,471		11,471	(11,471)	N/A
Charges for Services	23,828,500	14,439,335		14,439,335	9,389,165	60.6%
Miscellaneous Revenues	69,000	47,177		47,177	21,824	68.4%
Donations/Contributions (Capital Labor)	-	397,135		397,135	(397,135) (5)	N/A
Total Operating:	\$24,691,500	\$15,483,957		\$15,483,957	\$9,207,543	62.7%
<u>Capital</u>						
Use of Money/Property	\$34,000	\$1,327		\$1,327	\$32,673	3.9%
Capacity Charges	5,512,000	3,235,770		3,235,770	2,276,230	58.7%
Intergovernmental	2,250,000	1,361,107		1,361,107	888,893	60.5%
Bond Proceeds	4,550,000	-		-	4,550,000	0.0%
Sale of Assets	-	18,700		18,700	(18,700)	N/A
Miscellaneous Revenues	-	-		-	-	N/A
Intrafund Transfers	14,412,000	5,902,258		5,902,258	8,509,742 (2)	41.0%
Total Capital:	\$26,758,000	\$10,519,162		\$10,519,162	\$16,238,838	39.3%
Grand Total Revenue:	\$51,449,500	\$26,003,119		\$26,003,119	\$25,446,381	50.5%

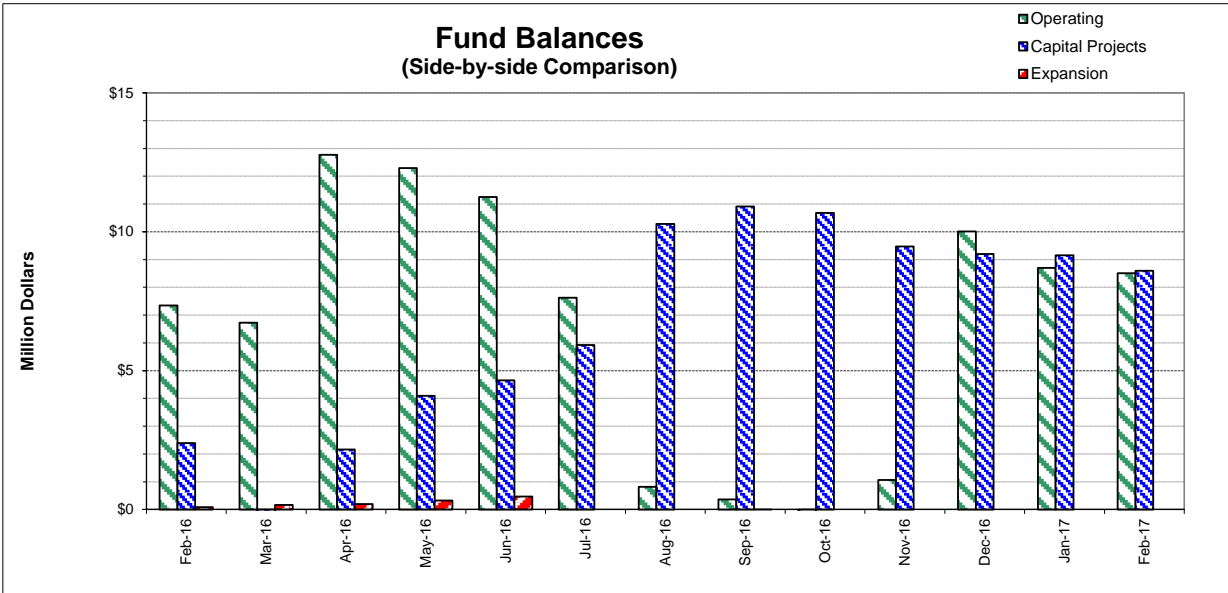
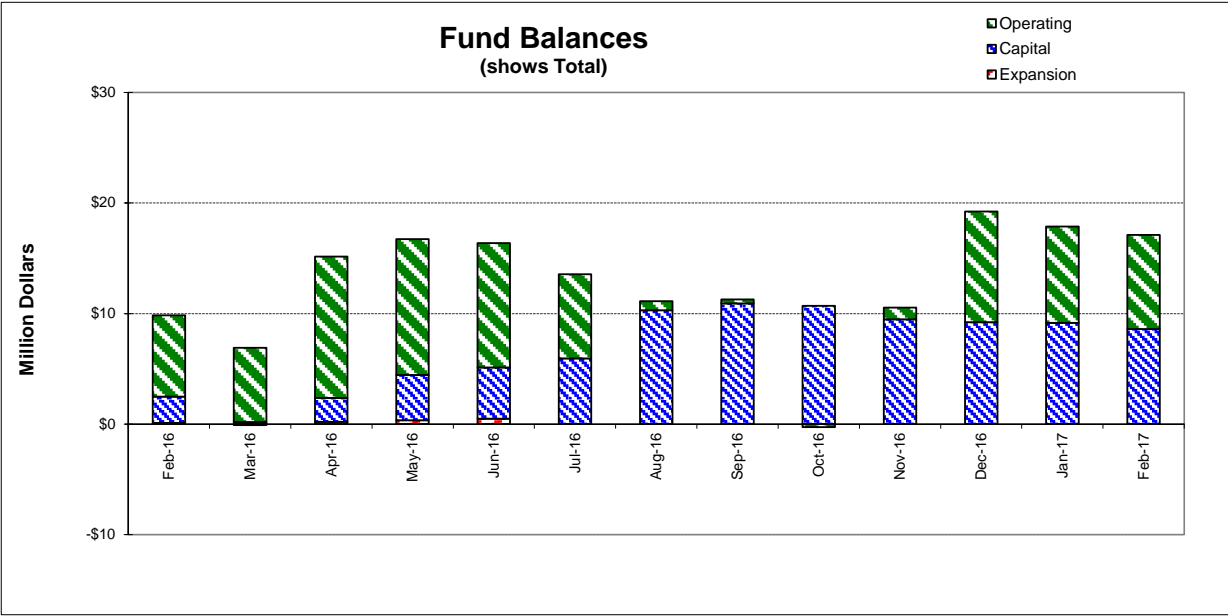
Cash on Hand as of 2/28/17 **\$17,104,324**

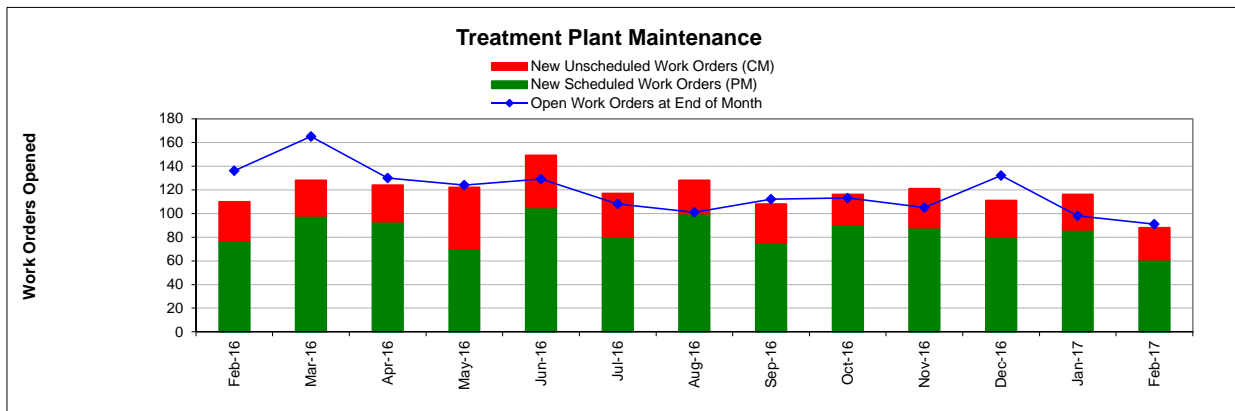
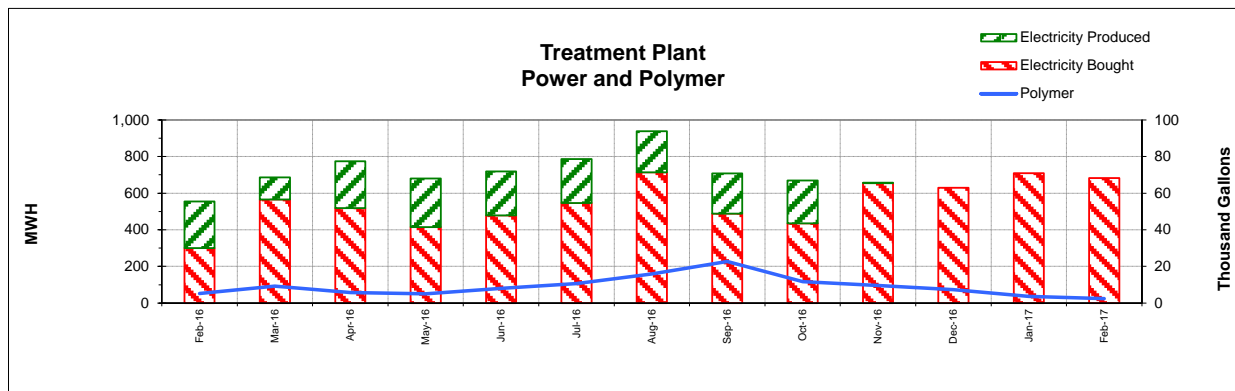
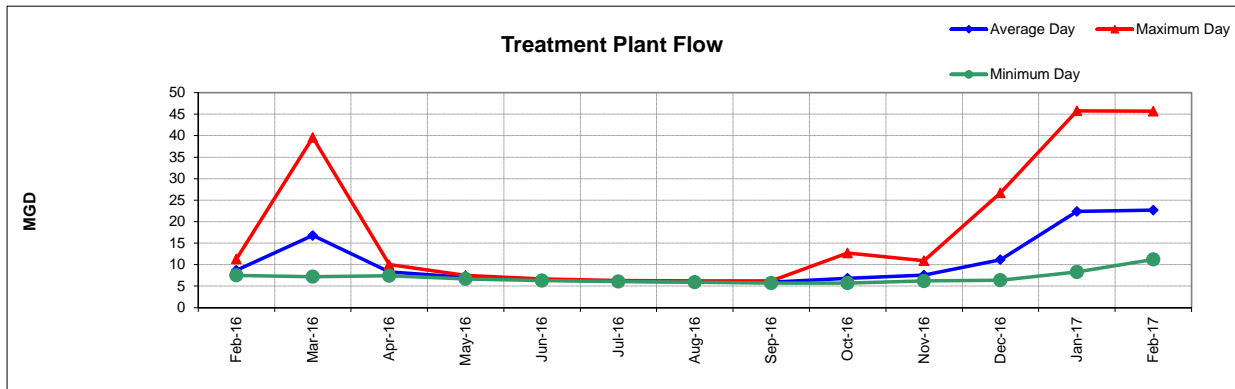
**excluding Debt Service restricted funds
12/31/16 - Effective Rate of Return = 0.64%

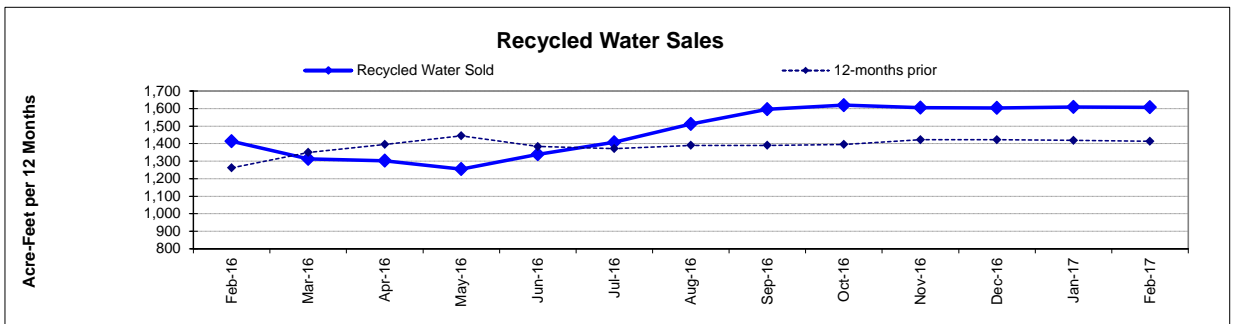
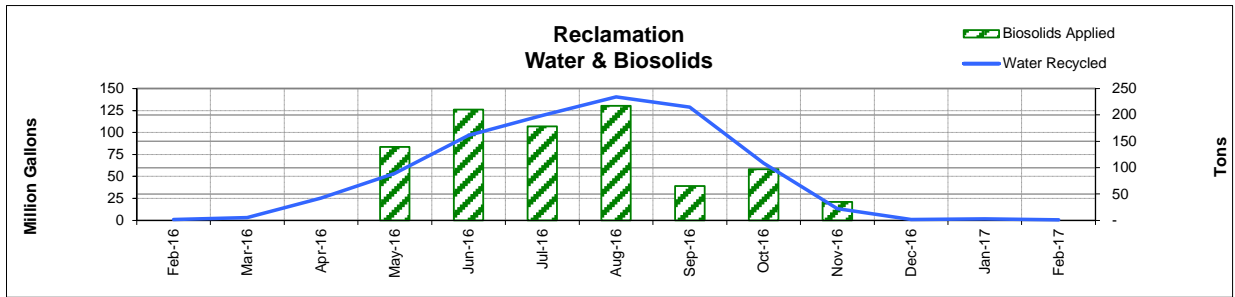
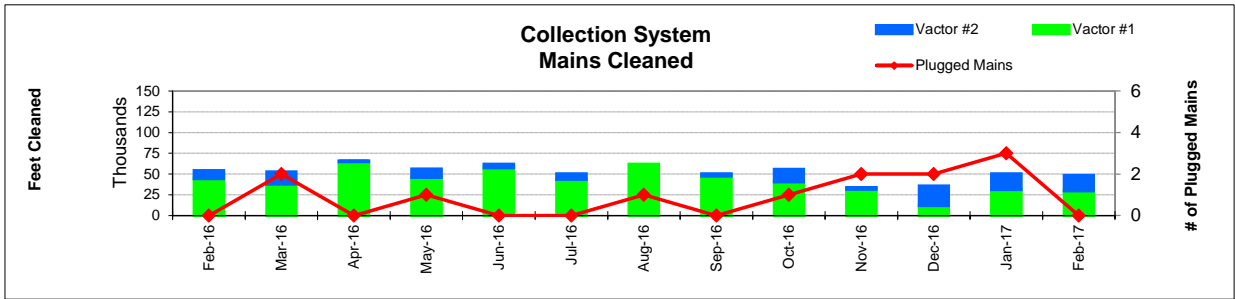
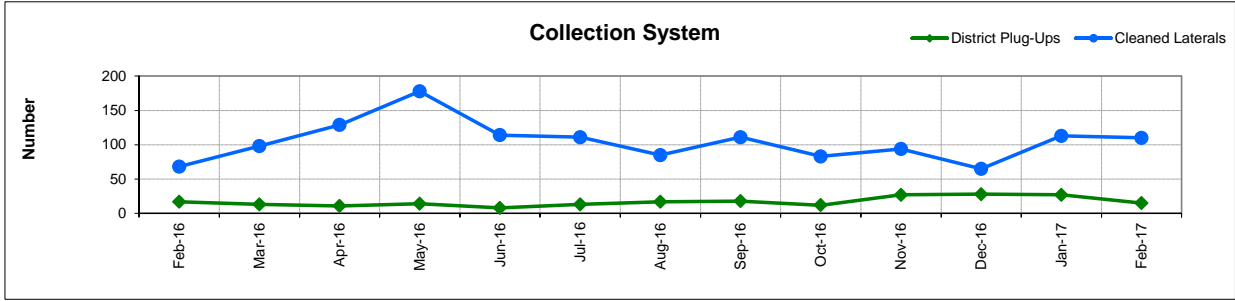
Note: The effective rate of return for both Jan and Feb 2017 were not available
at the time of this report.

1. Series 2009B's and 2012A's principal/interest payments made in Aug & Feb
2. Processed 25% of intrafund transfer budget from Operating to Capital in July
3. Includes Debt Service and Intrafund Transfers; otherwise is 62.3%
4. See Capital Project Status report for details
5. In-house Labor for Capital Projects (Contra acct for Salaries)

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FUND BALANCES - MONTHLY

CATEGORY	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17
<i>(Thousand Dollars)</i>													
7800	7,347	6,726	12,775	12,297	11,251	7,626	819	362	(293)	1,062	10,012	8,701	8,506
7850	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Operating	7,347	6,726	12,775	12,297	11,251	7,626	819	362	(293)	1,062	10,012	8,701	8,506
Capital Improvement Projects	2,389	(96)	2,163	4,096	4,649	5,924	10,284	10,912	10,685	9,470	9,204	9,154	8,598
Debt Proceeds	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Capital	2,389	(96)	2,163	4,096	4,649	5,924	10,284	10,912	10,685	9,470	9,204	9,154	8,598
Total Discretionary Funds	9,736	6,630	14,938	16,393	15,900	13,550	11,103	11,274	10,392	10,532	19,216	17,855	17,104
Expansion Fund (Restricted)	85	168	200	326	467	-	-	1	-	-	-	-	-
Total Restricted Funds	85	168	200	326	467	-	-	1	-	-	-	-	-
TOTAL ALL FUNDS	9,821	6,798	15,138	16,719	16,367	13,550	11,103	11,275	10,392	10,532	19,216	17,855	17,104

DEVELOPMENT WORKLOAD - MONTHLY

CATEGORY	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17
<u>Phone Requests</u>													
Maps/Drawings	9	9	8	9	5	5	9	5	8	7	4	9	7
Lateral Permits	-	-	-	-	-	-	-	-	-	-	-	-	2
Policy Questions	12	9	6	9	10	7	11	7	3	8	6	6	10
Development Questions	77	66	105	58	75	99	126	56	61	48	47	45	60
Miscellaneous	6	8	7	14	14	14	15	7	4	6	4	8	6
TOTAL	104	92	126	90	104	125	161	75	76	69	61	68	85
<u>Counter Requests</u>													
Maps/Drawings	3	2	5	-	-	3	7	5	1	-	1	2	1
Lateral Permits	11	8	10	13	12	9	19	19	13	14	7	11	5
Policy Questions	-	1	2	-	2	-	2	2	2	1	-	3	2
Development Questions	17	12	23	2	10	17	30	17	10	8	4	9	13
Miscellaneous	-	-	2	-	3	5	6	4	2	1	2	3	1
TOTAL	31	23	42	15	27	34	64	47	28	24	14	28	22
<u>Initial Request (Referrals)</u>	14	16	11	17	14	12	22	10	7	21	23	17	11
<u>Connection Permits Issued</u>													
Residential Permits	3	4	2	6	9	-	1	1	21	-	-	-	1
Commercial Permits	1	2	1	3	2	1	1	2	6	4	3	-	1
Industrial Permits	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMITS	4	6	3	9	11	1	2	3	27	4	3	-	2
Residential Units	4	11	2	6	9	-	1	1	21	-	-	-	1
Commercial Units	1	2	1	3	2	1	1	146	14	4	3	-	3
TOTAL UNITS	5	13	3	9	11	1	2	147	35	4	3	-	4
<u>Annexations</u>													
Submitted	-	-	-	-	1	-	-	1	-	1	-	-	-
Acreage	-	-	-	-	1.50	-	-	1.10	-	27.11	-	-	-
<u>Plans Reviewed</u>													
<u>Subdivisions/Sites</u>													
First Submittal	4	3	8	1	5	1	8	4	3	5	2	10	2
Second Submittal	1	4	3	-	1	1	6	4	3	-	2	2	3
Third Submittal	2	1	1	1	1	3	1	7	-	1	3	2	1
<u>Building/Tenant Improvements</u>													
First Submittal	2	16	21	12	10	3	12	4	8	5	4	10	5
Second Submittal	1	7	8	7	4	6	4	9	3	4	4	5	2
Third Submittal	1	3	1	6	3	5	1	5	3	8	6	2	1
<u>Miscellaneous Plan Reviews</u>	-	-	-	-	-	-	-	-	-	-	-	1	-
TOTAL PLANS REVIEWED	11	34	42	27	24	19	32	33	20	23	21	32	14

INSPECTION WORKLOAD - MONTHLY

CATEGORY	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17
<u>CONSTRUCTION</u>													
Locating Sewers	-	-	-	-	-	-	-	-	-	-	-	-	-
Permit Processing	-	-	-	-	-	-	-	-	-	-	-	-	-
Preconstruction Meetings	6	6	8	9	7	3	9	-	5	6	5	9	6
Inspections - Mains	6	3	3	2	-	2	1	-	-	10	1	-	-
Inspections - Manholes	91	49	15	8	13	3	-	-	81	27	89	46	16
Inspections - Laterals	15	16	45	29	22	20	20	9	7	37	11	24	17
Inspections - Cleanouts	48	41	42	60	51	28	25	4	29	71	20	42	38
Inspections - Review Video	2	1	4	-	4	-	3	-	2	2	4	1	-
Demo - Septic Tanks	-	-	-	-	-	-	-	-	-	-	-	-	-
Demo - Buildings	1	3	-	-	2	-	1	-	-	-	-	2	-
Update Record Drawings	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	169	119	117	108	99	56	59	13	124	153	130	124	77
<u>MISCELLANEOUS</u>													
Meter Readings	-	10	-	9	9	10	9	-	9	-	18	100	-
Washdown Facility Inspections	-	-	-	-	-	-	-	-	-	19	-	-	-
General Customer Assistance	36	37	16	10	1	4	4	9	13	-	6	11	11
City of Napa Water Discharge	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	36	47	16	19	10	14	13	9	22	19	24	111	11
<u>SPECIAL PROJECTS</u>													
	3	-	15	21	22	31	22	7	9	32	2	0	6

POLLUTION PREVENTION WORKLOAD - MONTHLY

CATEGORY	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17
<u>Outreach Activities</u>													
Plant Tours Conducted	2	1	4	4	2	0	0	0	7	8	0	1	4
Presentations Made	1	1	5	2	0	0	1	0	0	3	0	1	2
Total Outreach Activities	3	2	9	6	2	-	1	-	7	11	-	2	6
<u>Inspections Conducted</u>													
Food Service Facilities	30	31	19	12	-	-	-	1	-	-	37	21	53
Auto Body & Car Wash	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	1	1	-	-	-	-	-	-	-	-	-	-
Total Inspections	30	32	20	12	-	-	-	1	-	-	37	21	53
<u>Compliance Issues</u>													
NOVs Issued	-	1	2	-	2	1	-	-	-	-	2	-	1
NOEs Issued	-	-	1	2	-	-	-	1	-	1	2	-	1
Non-Compliant-FOG	1	-	-	-	-	-	-	-	-	-	-	-	1
Total Compliance Issues	1	1	3	2	2	1	-	1	-	1	4	-	3
<u>Pollution Prevention</u>													
Clothes Washer Rebates	10	-	18	14	45	-	-	-	-	20	26	28	21
Toilet Retrofit Rebates	6	22	19	6	10	-	11	4	12	8	12	5	4
Pharmaceuticals Diverted (in lbs)	341	341	322	240	243	362	303	386	391	291	63	155	201

RECYCLED WATER DELIVERIES - MONTHLY

	Acres	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17
MONTHLY (MG)														
Water Sold														
Golf Courses	405.0	0.027	0.070	13.197	37.578	57.273	62.709	63.227	49.600	25.538	6.308	0.002	0.245	-
Cemeteries	5.0	0.145	0.000	0.015	0.447	0.709	0.931	0.754	1.225	0.328	0.010	0.000	-	-
Parks	18.5	-	-	0.036	0.725	1.078	1.299	1.172	0.741	0.205	-	-	-	-
Schools	21.0	0.040	0.075	0.360	1.528	2.675	2.181	2.120	1.497	0.630	0.014	0.006	0.005	-
Commerical	167.6	0.346	2.430	6.404	11.038	17.061	14.878	17.259	15.070	9.563	3.457	0.490	1.191	0.404
Vineyards	564.0	0.446	0.365	5.268	2.034	13.413	15.693	21.832	17.609	6.065	3.528	0.302	0.194	0.063
Trucked Water	175.0	0.010	0.018	0.098	0.064	0.135	0.232	0.458	0.135	0.124	0.008	0.188	0.009	0.002
Subtotal Sales	1,356.1	1.012	2.958	25.378	53.413	92.343	97.923	106.821	85.877	42.454	13.326	0.988	1.644	0.469
District Use														
Jameson	330.0	-	0.084	-	-	1.481	5.414	12.456	20.935	12.608	-	-	0.089	-
Somky	213.0	-	-	-	-	2.950	16.037	21.318	22.108	10.000	0.001	-	-	-
Fagundes/Airport	50.5	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal District	593.5	-	0.084	-	-	4.431	21.451	33.774	43.043	22.609	0.001	-	0.089	-
TOTAL DELIVERED	1,949.6	1.012	3.042	25.378	53.413	96.773	119.374	140.594	128.920	65.062	13.327	0.988	1.733	0.469
ANNUAL (AF)														
Water Sold														
Golf Courses	405.0	999	915	899	840	869	891	920	946	960	971	968	969	969
Cemeteries	5.0	15	15	13	13	13	13	13	15	14	14	14	14	14
Parks	18.5	17	17	16	16	17	17	17	17	16	16	16	16	16
Schools	21.0	40	37	35	35	37	38	38	37	36	34	34	34	34
Commerical	167.6	286	275	270	276	294	293	302	308	304	301	301	304	305
Vineyards	564.0	50	49	64	68	103	149	215	268	285	265	266	266	265
Trucked Water	175.0	6	6	6	6	5	5	6	5	4	4	5	5	5
Subtotal Sales	1,356.1	1,414	1,313	1,303	1,254	1,339	1,407	1,512	1,596	1,619	1,605	1,603	1,609	1,607
District Use														
Jameson	330.0	103	103	103	103	107	124	153	167	163	163	163	163	163
Somky	213.0	291	291	291	221	195	208	230	223	222	222	222	222	222
Fagundes/Airport	50.5	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal District	593.5	394	394	394	324	302	332	383	390	385	385	385	385	385
TOTAL DELIVERED	1,949.6	1,807	1,707	1,697	1,578	1,641	1,739	1,894	1,986	2,004	1,990	1,988	1,994	1,992

BIOSOLIDS HANDLING - MONTHLY

Site	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17
<u>Land Applied by NSD</u>													
Somky													
Airport/Fagundes													
Jameson Canyon	-	-	-	139	210	178	217	65	97	35	-	-	-
Subtotal by NSD	-	-	-	139	210	178	217	65	97	35	-	-	-
<u>Land Applied by Contractor</u>													
Somky													
Airport/Fagundes													
Jameson Canyon													
Subtotal by Contractor	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Land Applied	-	-	-	139	210	178	217	65	97	35	-	-	-
Off Site (Contractor)													
Total (tons)	-	-	-	139	210	178	217	65	97	35	-	-	-

COLLECTION SYSTEM MAINTENANCE - MONTHLY

CATEGORY	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17
<u>Plugups</u>													
Total Calls	58	43	41	45	33	48	52	48	56	68	84	75	51
Business Hours	42	22	31	30	22	27	35	35	34	38	54	49	30
After Hours	16	21	10	15	11	21	17	13	22	30	30	26	21
District's	17	13	11	14	8	13	17	18	12	27	28	27	15
Property Owner's	39	30	30	31	25	35	35	30	44	41	56	48	36
Plugged Main Lines		2		1			1		1	2	2	3	
Run Lateral w/Eel	68	98	129	178	114	111	85	111	83	94	65	113	110
<u>Cleaning (feet of sewer)</u>													
Vactor #1	44,811	38,201	65,231	46,352	57,690	43,988	61,502	47,869	40,711	32,046	12,220	31,694	30,016
Vactor #2	9,199	14,073	325	9,687	4,002	6,288		2,184	14,730	1,512	23,277	18,222	18,062
Hydro													
Rodder	650												
Total (feet)	54,660	52,274	65,556	56,039	61,692	50,277	61,502	50,053	55,442	33,557	35,497	49,915	48,077
<u>Cleaning Days</u>													
Vactor #1	21	17	19	19	19	18	19	16	17	16	15	16	18
Vactor #2	13	14	18	17	17	15	19	15	13	15	7	9	11
Hydro	7	3	1	2	2	3		1	4	1	8	7	7
Rodder	1												
<u>Feet/day</u>													
Vactor #1	2,600	3,050	3,450	2,950	3,250	2,800	3,250	3,150	3,250	2,100	2,350	3,100	2,650
Vactor #2	3,450	2,750	3,600	2,750	3,400	2,950	3,250	3,200	3,150	2,150	1,750	3,500	2,750
Hydro	1,300	4,700	350	4,850	2,000	2,100		2,200	3,700	1,500	2,900	2,600	2,600
Rodder	650	222											
<u>Video Inspections</u>													
Mains (feet)	9,718	12,343	8,670	17,352	15,115	3,878	15,885	6,453	10,131	6,826	13,141	5,981	6,398
Laterals (each)	131	154	181	225	152	183	140	161	174	182	191	203	175
<u>Construction (each)</u>													
Cleanouts	20	13	17	7	10	7	3	16	8	10	6	4	10
Laterals	8		4	3	5	4			10	5		1	
Mains			2						3				
Manholes									1				
Other				39									
<u>USA Markings</u>													
Regular (w/in 2 days)	281	247	270	319	225	244	326	252	215	214	160	151	186
Emergency (w/in 2 hours)	8	13	5	-	6	14	8	10	6	4	18	7	7

WASTEWATER PLANT OPERATIONS DATA - MONTHLY

[illegible]

WASTEWATER PLANT MAINTENANCE and LABORATORY DATA - MONTHLY

CATEGORY	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17
<u>Scheduled</u>													
Old	39	55	77	66	53	55	37	39	50	57	48	75	49
New	77	98	93	70	105	80	100	75	91	88	80	86	61
Completed	61	76	104	83	103	98	98	64	84	97	53	112	67
New Balance	55	77	66	53	55	37	39	50	57	48	75	49	43
<u>Unscheduled</u>													
Old	82	81	88	64	71	74	71	62	62	56	57	57	49
New	33	30	31	52	44	37	28	33	25	33	31	30	27
Completed	34	23	55	45	41	40	37	33	31	32	31	38	28
New Balance	81	88	64	71	74	71	62	62	56	57	57	49	48
<u>Total Work Orders</u>													
Old	121	136	165	130	124	129	108	101	112	113	105	132	98
New	110	128	124	122	149	116	128	108	116	121	111	116	88
Completed	95	99	160	128	144	138	136	96	115	129	84	151	95
New Balance	136	165	130	124	129	108	101	112	113	105	132	98	91
<u>LAB ANALYSES</u>													
Sample Type													
Regulatory	281	325	392	130	158	193	179	193	204	168	175	192	214
Process Control	1,157	1,276	1,235	778	729	744	907	739	766	1,315	1,209	1,189	1,051
Special Request	17	1	5	320	11	207	93	-	19	39	40	3	1
Quality Control/Assurance	500	306	349	209	5	32	5	5	50	302	299	303	272
TOTAL	1,955	1,908	1,981	1,437	903	1,176	1,184	937	1,039	1,824	1,723	1,687	1,538

**Summary of NSD Capital Project Status
through 02-28-17**

Proj #	Description	FY 16-17 Budget	FY 15-16 Carryovers	Adj.	Final FY 16-17 Budget	Encumbrance	Costs Paid to Date	Budget Remaining	% Budget Expended
<u>COLLECTION SYSTEM</u>									
13701	Main Line Sewer Rehab	88,700		(60,000)	28,700	-	4,704	23,997	16%
13702	Manhole Raising/Rehab	198,900		60,000	258,900	41,900	194,187	22,813	75%
13703	Lateral Replacement/Rehab	72,000			72,000	-	43,261	28,739	60%
13704	Cleanouts Installation/Rehab	87,000			87,000	-	36,216	50,784	42%
13705	I&I Reduction Program	200,000			200,000	95,779	20,797	83,424	10%
14703	Browns Valley Rd & First St	2,800,000	813,800		3,613,800	444,169	350,736	2,818,894	10%
15703	Sarco Crk PL Rplcmnt/CalTRANS	1,050,000	(34,250)	98,000	1,113,750	173,328	936,335	4,087	84%
15721	ACP CIPP Lining Project #1	-	330,000		330,000	-	311,543	18,458	94%
16701	Basin L - I&I Reduction #5	1,400,000	(490,400)	(160,000)	749,600	25,359	693,820	30,421	93%
16718	NN Siphon Vault Cover Replacement	-	5,000		5,000	-	1	4,999	0%
16723	Milliken Creek Sewer Repair	-	150,000	150,000	300,000	4,880	268,955	26,165	90%
17701	ACP CIPP Lining Project #2	350,000		(350,000)	-	-	-	-	-
17702	Upper Lateral Rehab - Basin L (Pilot #2)	5,000			5,000	-	-	5,000	-
17703	Manhole Rehab - Nipak	90,000			90,000	-	87,708	2,292	97%
17704	Infltrtn Rehab - SSMH/PL (CI-)	400,000		(300,000)	100,000	-	25,824	74,176	26%
17705	Soscol Ave (8th to Oil Co Rd)	500,000			500,000	43,301	36,645	420,054	7%
17706	Rehab - Ranch De Los Robles	400,000		(400,000)	-	-	-	-	-
17707	66-inch Trunk CCTV Inspection	150,000			150,000	-	315	149,685	0%
17708	Basin G - I&I Reduction #1	1,200,000		1,180,000	2,380,000	-	35,676	2,344,324	1%
17734	Homewood/Westwood I/I Reduction	-		200,000	200,000	118,850	11,279	69,871	6%
<u>COLLECTION SYSTEM - EQUIPMENT</u>									
17709	Eel Replacment 1	5,400		100	5,500	-	5,454	46	99%
17710	Vehicle 510 - Water Truck	207,900		(18,100)	189,800	-	186,160	3,640	98%
<u>LIFT STATIONS</u>									
17711	West Napa PS - Rehab	1,750,000			1,750,000	-	-	1,750,000	-
<u>TREATMENT</u>									
16708	Algae to Digester with Thermal Study	-	50,450		50,450	22,913	3,542	23,995	7%
17712	Headworks/Primary - Odor Ctrl	20,000		5,000	25,000	-	17,015	7,985	68%
<u>TREATMENT - EQUIPMENT</u>									
13741	Secondary PS Pump Rebuild (3)	37,500	7,200	5,000	49,700	52,081	-	(2,381)	-
13743	Risidual Analyzers (Deox) Replacements	-		20,000	20,000	8,405	8,079	3,516	40%
14720	Belt Press Polymer Skid Replacement	-	55,700		55,700	-	47,724	7,976	86%
15711	Rotork Actuator Replacement	-	52,750	88,700	141,450	17,000	6,200	118,250	4%
15712	Rehab Pond 1 Storage Structure	25,000	5,000	(30,000)	-	-	-	-	-
15713	Aeration Basin Instrmntn/Ctrl	1,200,000	(126,000)	500,000	1,574,000	174,469	1,284,018	115,513	82%
16713	Buried Metallic Piping (eval/rehab)	40,000	10,000	(8,200)	41,800	-	-	41,800	-
16714	High Voltage System Repairs	-	30,000	50,000	80,000	11,560	4,625	63,815	6%
16715	Cogen Bottom End Overhaul	75,000	150,000		225,000	218,378	-	6,622	-
17713	Secondary PS VFD Rplcmnt (3)	53,600			53,600	-	1,485	52,115	3%

**Summary of NSD Capital Project Status
through 02-28-17**

Proj #	Description	FY 16-17 Budget	FY 15-16 Carryovers	Adj.	Final FY 16-17 Budget	Encumbrance	Costs Paid to Date	Budget Remaining	% Budget Expended
17714	WWTP MP - 3W Sys Imprvmnts	60,000			60,000	-	534	59,466	1%
17715	Turbidimeters (7) Tertiary Rplcmnts	11,800		11,200	23,000	14,041	7,575	1,384	33%
17716	FOG - Strain Press	200,000			200,000	-	149,914	50,086	75%
17717	Energy Audit - Odor Control VFD	51,700			51,700	-	4,524	47,176	9%
17718	Energy Audit - LED Pole/Arm Mounted Fixtures	78,100		50,000	128,100	-	3,503	124,597	3%
17719	Lab - Smpler 4700 - Pretreatment	7,500		(800)	6,700	-	-	6,700	-
17720	Lab - Smpler 4700 - Pretreatment	7,500			7,500	-	-	7,500	-
17721	Lab - Chlorophyll A Analyzer - Pond Water	5,400		800	6,200	-	6,105	95	98%
17722	Main - Stationary Gas Detector Replacment Ph 2	140,000		35,000	175,000	155,924	2,875	16,201	2%
17723	Main - Rotork Actuator Replacment	88,700		(88,700)	-	-	-	-	-
17724	Main - Primary Clarifier Exhaust Fan Replacment	5,000		(5,000)	-	-	-	-	-
17725	Main - Sump #3 Modification	10,000			10,000	-	-	10,000	-
<u>TREATMENT - STRUCTURES</u>									
13724	IPS Expansion	-	38,700		38,700	12,183	3,089	23,429	8%
17726	Headworks Equipment Rehab/Replacment	10,000		100,000	110,000	24,183	48,409	37,408	44%
17727	Roof Replacement - Digester 2nd Floor	125,000		(10,000)	115,000	-	110,713	4,287	96%
17728	Roof Replacement - AB/Blower Building	40,000		5,000	45,000	-	43,162	1,838	96%
17729	DAF Access Opening	20,000			20,000	-	-	20,000	-
<u>SCADA</u>									
<u>RECYCLING - DISTRICT</u>									
15717	Isolation Valve on Kirkland Line (Devlin Rd)	49,200	14,400	10,000	73,600	-	66,508	7,092	90%
16716	Line Recycled Water Reservoir	1,320,000	(18,400)	(1,000,000)	301,600	8,897	119,242	173,461	40%
17730	Jameson Solids Pad Dump Bay	15,000		(15,000)	-	-	-	-	-
17731	Jameson Office Trailer Replacment	25,000			25,000	-	19,405	5,595	78%
17732	Vehicle 710 - 8830 Tractor	200,000		(30,000)	170,000	-	165,932	4,068	98%
17733	Vehicle 172 - Ford F150	28,000		5,000	33,000	-	30,900	2,100	94%
<u>RECYCLING - EXPANSION</u>									
13727	North Bay Wate Reuse Project	845,000			845,000	-	283,881	561,119	34%
14726	MST RW Pipeline Construction	-	500,000		500,000	305,809	16,334	177,857	3%
14727	Split N/S Lines, surge protection	-	50,000		50,000	10,615	19,506	19,879	39%
15718	LCWD Recycled Water Pipeline - Construction	-	500,000	(98,000)	402,000	318,924	39,516	43,560	10%
16722	MST RW Pipeline Extension	1,200,000	(700)		1,199,300	154,106	232,380	812,814	19%
<u>OTHER</u>									
13729	Development Technical Support	231,800			231,800	-	160,903	70,897	69%
16717	Admin/Engineering Bldg - Acoustic Improvements	-	10,000		10,000	-	-	10,000	-
GRAND TOTAL ALL PROJECTS		\$17,180,700	\$2,103,250	-	\$19,283,950	\$2,457,053	\$6,157,216	\$10,669,684	32%