



Napa Sanitation District

General Manager's Report

for

October, 2016

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

Dedicated to Preserving the Napa River for Generations to Come

DATE: December 7 2016

FROM: Timothy B. Healy, General Manager

SUBJECT: General Manager's Report for October, 2016

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, 2016 – October 31, 2016
Percent Fiscal Year:	33.3%
Operating Expenditures to date:	38.0%
Historical Expenditures to date:	39.8%
Significant Comments:	None.

PERSONNEL:

Significant events for the month of October, 2016 in the Human Resources Department:

New Hires:	None
Separations:	None
Promotions:	None
Recruitment Activities:	Held oral board interviews for recruitment for Junior/Assistant/Associate engineer; held testing for Collection System Worker recruitment
Injuries:	None

Summaries of Operational Highlights are on following pages.

COLLECTIONS:

Significant events for the month of October 2016 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 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 repair crew installed 6 cleanouts, repaired/rehabilitated 11 sewer lateral, repaired 1 cleanout and made 3 mainline repairs. Additionally, the service response programs crew completed 114 work orders in support of the grease and odor control program, responded to 54 customer requests for service (12 were NSD problem) and closed out 219 mark and locate request tickets.
- The preventative maintenance crews ran work orders on 82 laterals, cleaned approximately 55,821 feet of main line and CCTV inspected approximately 10,131 feet of main line and 40 laterals.

TREATMENT PLANT:

Significant events for the month of October 2016 in the Treatment Plant Department:

Plant Operations

- For October 2016, the plant's influent flow was 212.3 MG as compared to last year flow for October 2015 of 175.0 MG
- There was no flow to the Napa River for October 2016.
- The production of recycle quality occurred for 29 days during October 2016 with a total flow of 83.5 MG.
- This October power consumption purchased from PG&E was 436 MWH in comparison to October 2015 purchase of 469 MWH.
- There was 3.25" rain fall for October 2016 as compared to 0.00" rain fall for October 2015.
- Pond 4 end of the month recorded level reading was 69.10" as compared to October 2015 of 61.46". Total remaining pond capacity for October 2016 was 23.4% as compared to October 2015 remaining capacity of 30.4%.

Maintenance:

Significant events for the month of October, 2016:

Cogeneration Performance

- Cogeneration unit ran 738 of 744 hours for the month – 99.19% uptime, averaging 302.52 Kw

Process Maintenance

- Cogeneration unit monthly emission test - in compliance with BAAQMD permit.
- Cogeneration Service;
 - Change oil
 - Replace oil filter socks & air pre-filter
 - Greased linkage
- Stand-by Generator #1&2 Service;
 - Changed oil
 - Replaced oil filter, fuel filters & air filters
- Filter Cell #5 Turbidity transmitter Hach SC200 replaced
- Replaced D.O. probe for Bioassay
- Replaced batteries and serviced Opera House Telemetry Repeater
- Relocated Stantrol 880 to West Channel
- West Napa, Pump #1 discharge valve switch replaced
- Replaced Primary Pump #301 discharge check valve

Projects

- Backflow testing completed

Standby Power

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

Influent Pumps

- Pumps are all operational

Laboratory:

Monthly Recycle Effluent (REC-001) monitoring was conducted on October 4th, 2016. Sample results received indicated constituent concentrations within the District maximum agronomic ranges, except Chloride which indicated concentrations exceeding 264 mg/L on October 11th &

12th, 2016. The average chloride concentration throughout the month of September was 209.3 mg/L.

Monthly Influent (INF-001) monitoring was conducted on October 4th, 2016. All Influent sample results received indicated no unusual results and were within local limits, except those indicated below.

- The Influent (INF-001) sample collected on October 4th indicated an Ammonia result of 38.9 mg/L which exceeds the Napa Sanitation District Local Limit of 36.0 mg/L.
- The Influent (INF-001) sample collected on October 4th indicated a Sodium result of 110 mg/L which exceeds the Napa Sanitation District Local Limit of 90.0 mg/L.

RECYCLING:

Significant events in the Recycling Department for October 2016 include:

- Recycled water delivered for the month of October 2016 (65.053million gallons), as compared to October 2015 (59.146million gallons) is higher due to golf course, vineyard and district demand. Delivered recycled water volume represents the sum of all use site flow meter consumption values.
- Staff provided AquaHawk training for LCWD recycled water customers which enables registered users access to their recycled water usage.
- Staff continued the land application of biosolids on the Jameson Reuse Site.

POLLUTION PREVENTION:

Significant events in the Pollution Prevention Department for October 2016 include:

- The Napa Safe Medication Collection Program collected 391 pounds of unneeded medications. The total amount of unneeded medications collected since program inception in September 2010 is 18,850 pounds.
- The District held the annual Open House on Saturday, October 15th from 10am to 2pm. Roughly 125 people were in attendance.
- There were 7 tours of the Soscol Water Recycling Facility this month.
- The District issued 12 Toilet Rebates at \$100 each for a total of \$1,200.
- The District issued 0 ESME Washer Rebates.

ENGINEERING / CAPITAL PROJECTS / DEVELOPMENT:

Significant events occurring in the Engineering Department for October 2016 include:

- Consultant continued design of the Browns Valley Trunk Project.
- Consultant continued design of the Recycled Water Reservoir Lining Project.

- Consultant continued developing a hydraulic model for the District's recycled water distribution system.
- Consultant continued studying the feasibility of utilizing algae for beneficial use.
- Consultant continued design work for the MST Recycled Water Pipeline Expansion Project.
- Consultant continued design for the Soscol/Sousa Trunk Rehabilitation Project.
- Staff continued design of the 2017 Collection System Rehabilitation Project.
- Staff continued design of the Homewood/Westwood I/I Reduction Project.
- Staff continued investigating the collection system for sources of chloride.
- Staff issued the Notice to Proceed for the Manhole Rehabilitation – Nipak Project.
- Consultant continued design work for the Headworks Equipment Rehabilitation Project.
- Staff received proposals for engineering services for the Asset Management Plan.
- Staff issued the Notice to Proceed for the Stationary Gas Detectors – Phase II project.
- Staff issued a work order for the Recycled Water Valve on Kirkland Line Project.
- Staff continued design of the LED Pole/Arm Fixture Replacement project.
- The contractors continued construction of the following projects:
 - a. Sarco Creek Pipeline Replacement Project
 - b. Aeration Basin Diffusers, Instrumentation and Controls Project.
 - c. Manhole Adjustment Project, Phase IV
- The contractor completed construction of the Milliken Creek Sewer Rehabilitation Project – Phase 2.
- Staff reviewed 20 sets of development plans and deemed 13 sets of plans complete. The approved plans consisted of two residential dwellings, two residential laterals, eight tenant improvements and one commercial building.

Budget Status & Cash Summary - July 1, 2016 - October 31, 2016 (33.3% 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	\$9,382,370	\$2,489,623	\$2,073	\$2,491,695	\$6,890,675	26.6%
Services & Supplies	6,046,110	1,664,614	990,787	2,655,400	3,390,710	43.9%
Taxes	28,250	-	-	-	28,250	0.0%
Debt Service	4,773,050	3,687,504	-	3,687,504	1,085,546 (1)	77.3%
Intrafund Transfers	8,900,000	2,225,000	-	2,225,000	6,675,000 (2)	25.0%
Total Operating:	\$29,129,780	\$10,066,741	\$992,859	\$11,059,600	\$18,070,180 (3)	38.0%
<u>Capital</u>						
Bldgs/Improvements & Equip	\$19,283,950	\$2,486,640	\$4,812,323	\$7,298,963	\$11,984,987 (4)	37.8%
Intrafund Transfers	5,512,000	3,535,767	-	3,535,767	1,976,233	64.1%
Total Capital :	\$24,795,950	\$6,022,407	\$4,812,323	\$10,834,731	\$13,961,219	43.7%
Grand Total Expenditures:	\$53,925,730	\$16,089,148	\$5,805,183	\$21,894,331	\$32,031,399	40.6%

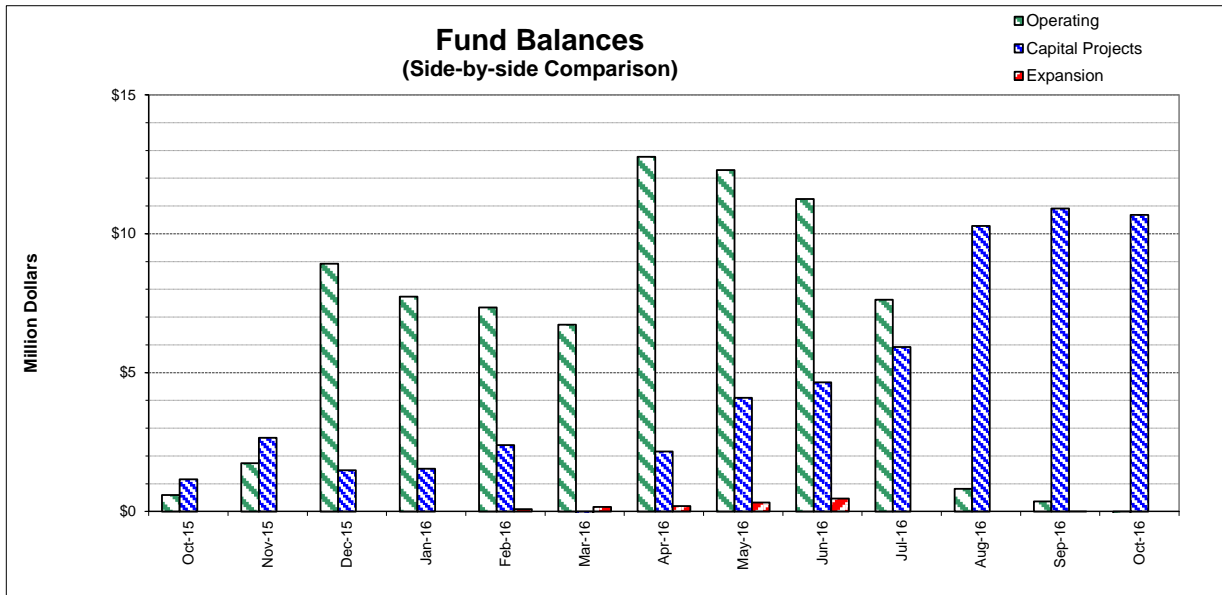
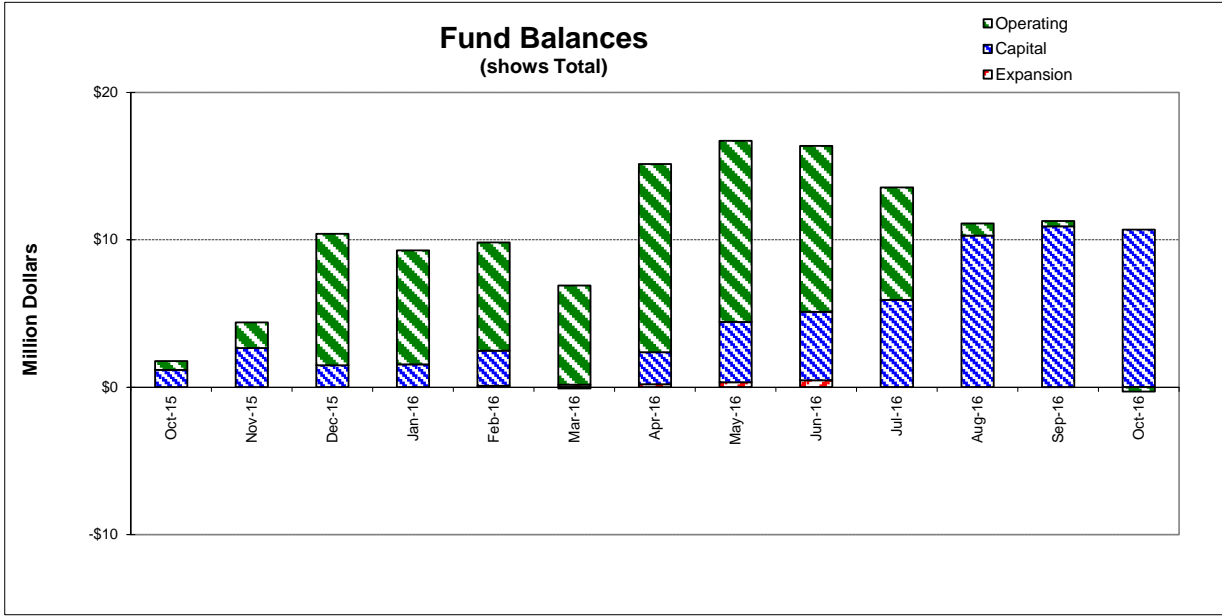
<i>Revenues</i>	FY 16/17 Budget	Collected to date	Encumbrances	Received to Date	Uncollected Revenue	Percent Collected
<u>Operating</u>						
Use of Money/Property	\$794,000	\$387,959		\$387,959	\$406,041	48.9%
Intergovernmental	\$0	\$11,471		11,471	(11,471)	N/A
Charges for Services	23,828,500	1,606,808		1,606,808	22,221,692	6.7%
Miscellaneous Revenues	69,000	11,599		11,599	57,401	16.8%
Donations/Contributions (Capital Labor)	-	213,896		213,896	(213,896) (5)	N/A
Total Operating:	\$24,691,500	\$2,231,732		\$2,231,732	\$22,459,768	9.0%
<u>Capital</u>						
Use of Money/Property	\$34,000	\$1,221		\$1,221	\$32,779	3.6%
Capacity Charges	5,512,000	2,972,475		2,972,475	2,539,525	53.9%
Intergovernmental	2,250,000	734,651		734,651	1,515,349	32.7%
Bond Proceeds	4,550,000	-		-	4,550,000	0.0%
Sale of Assets	-	1,196		1,196	(1,196)	N/A
Miscellaneous Revenues	-	-		-	-	N/A
Intrafund Transfers	14,412,000	5,760,767		5,760,767	8,651,233 (2)	40.0%
Total Capital:	\$26,758,000	\$9,470,311		\$9,470,311	\$17,287,689	35.4%
Grand Total Revenue:	\$51,449,500	\$11,702,044		\$11,702,044	\$39,747,456	22.7%

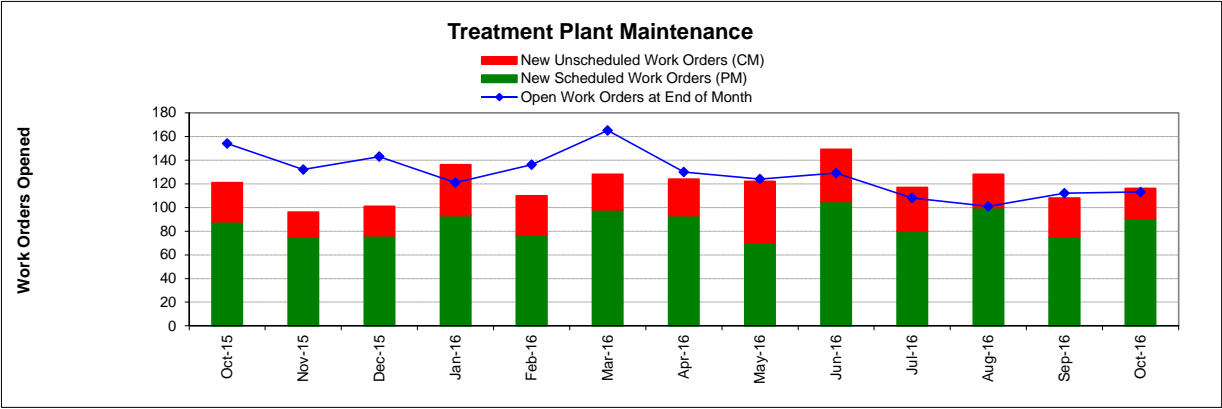
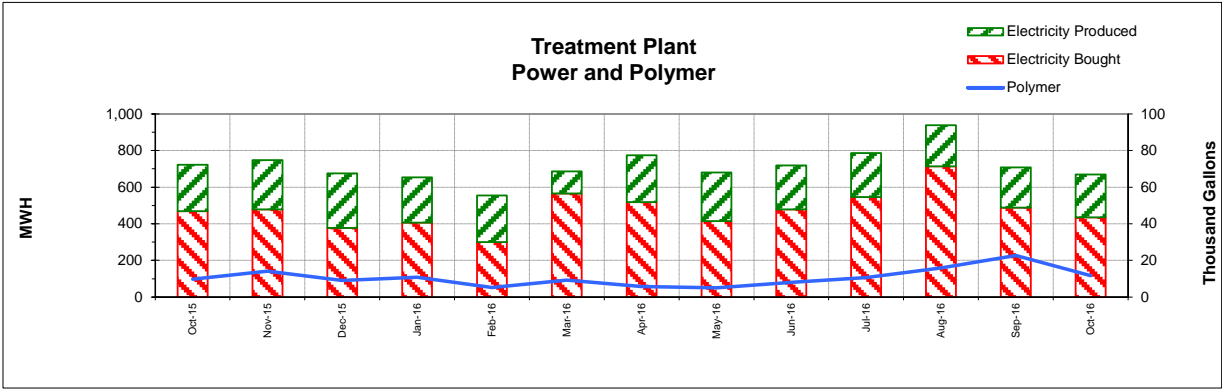
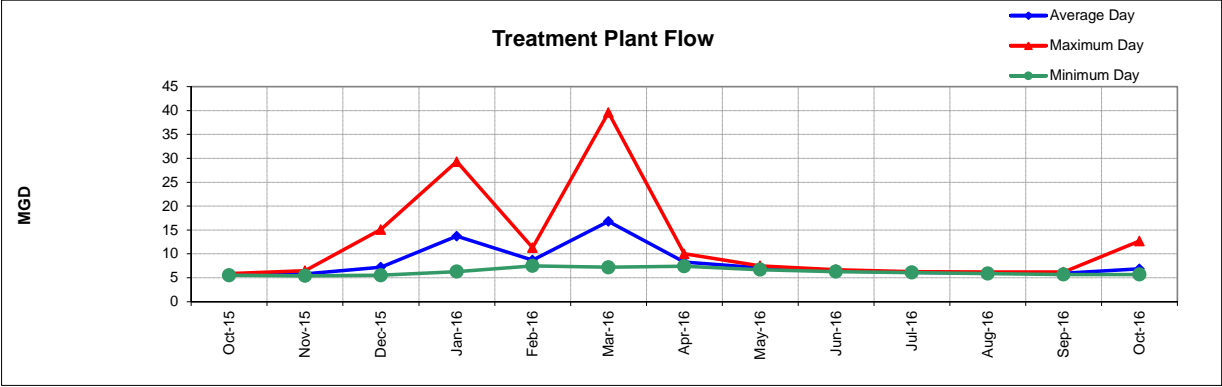
Cash on Hand as of 10/31/16 **\$10,391,779.44**

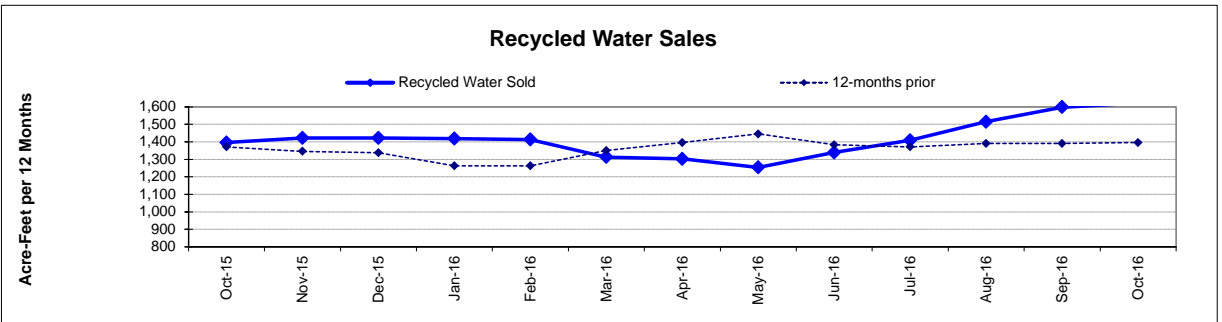
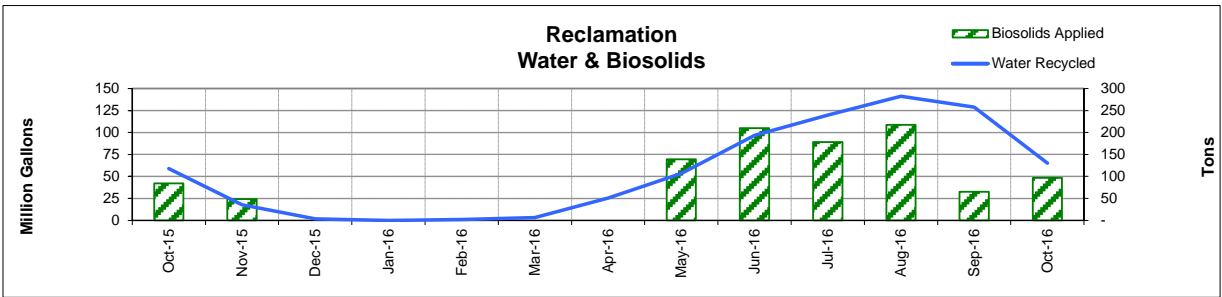
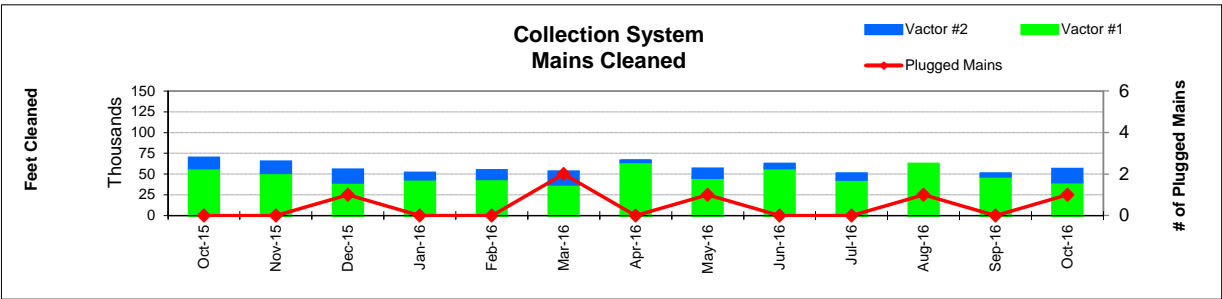
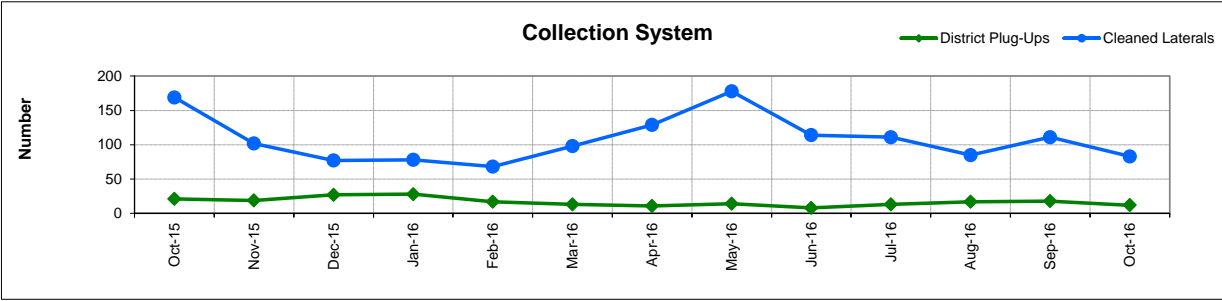
**excluding Debt Service restricted funds
10/31/16 - Effective Rate of Return = 0.76%

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 33.3%
4. See Capital Project Status report for details

This page intentionally left blank.







FUND BALANCES - MONTHLY

CATEGORY	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16
<i>(Thousand Dollars)</i>													
7800	598	1,739	8,920	7,737	7,347	6,726	12,775	12,297	11,251	7,626	819	362	(293)
7850	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Operating	598	1,739	8,920	7,737	7,347	6,726	12,775	12,297	11,251	7,626	819	362	(293)
Capital Improvement Projects	1,163	2,653	1,484	1,541	2,389	(96)	2,163	4,096	4,649	5,924	10,284	10,912	10,685
Debt Proceeds	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Capital	1,163	2,653	1,484	1,541	2,389	(96)	2,163	4,096	4,649	5,924	10,284	10,912	10,685
Total Discretionary Funds	1,761	4,392	10,404	9,278	9,736	6,630	14,938	16,393	15,900	13,550	11,103	11,274	10,392
Expansion Fund (Restricted)	-	-	-	-	85	168	200	326	467	-	-	1	-
Total Restricted Funds	-	-	-	-	85	168	200	326	467	-	-	1	-
TOTAL ALL FUNDS	1,761	4,392	10,404	9,278	9,821	6,798	15,138	16,719	16,367	13,550	11,103	11,275	10,392

DEVELOPMENT WORKLOAD - MONTHLY

CATEGORY	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16
<u>Phone Requests</u>													
Maps/Drawings	6	14	5	9	9	9	8	9	5	5	9	5	8
Lateral Permits	-	-	-	-	-	-	-	-	-	-	-	-	-
Policy Questions	10	4	3	8	12	9	6	9	10	7	11	7	3
Development Questions	93	65	56	89	77	66	105	58	75	99	126	56	61
Miscellaneous	6	5	6	1	6	8	7	14	14	14	15	7	4
TOTAL	115	88	70	107	104	92	126	90	104	125	161	75	76
<u>Counter Requests</u>													
Maps/Drawings	1	2	1	3	3	2	5	-	-	3	7	5	1
Lateral Permits	15	10	14	15	11	8	10	13	12	9	19	19	13
Policy Questions	-	-	2	-	-	1	2	-	2	-	2	2	2
Development Questions	11	10	9	8	17	12	23	2	10	17	30	17	10
Miscellaneous	3	-	1	1	-	-	2	-	3	5	6	4	2
TOTAL	30	22	27	27	31	23	42	15	27	34	64	47	28
<u>Initial Request (Referrals)</u>	20	15	9	15	14	16	11	17	14	12	22	10	7
<u>Connection Permits Issued</u>													
Residential Permits	2	2	8	5	3	4	2	6	9	-	1	1	21
Commercial Permits	4	2	3	-	1	2	1	3	2	1	1	2	6
Industrial Permits	-	-	1	-	-	-	-	-	-	-	-	-	-
TOTAL PERMITS	6	4	12	5	4	6	3	9	11	1	2	3	27
Residential Units	2	2	8	12	4	11	2	6	9	-	1	1	21
Commercial Units	4	183	3	-	1	2	1	3	2	1	1	146	14
TOTAL UNITS	6	185	11	12	5	13	3	9	11	1	2	147	35
<u>Annexations</u>													
Submitted	-	2	1	-	-	-	-	-	1	-	-	1	-
Acreage	-	1.60	0.12	-	-	-	-	-	1.50	-	-	1.10	-
<u>Plans Reviewed</u>													
<u>Subdivisions/Sites</u>													
First Submittal	4	5	1	3	4	3	8	1	5	1	8	4	3
Second Submittal	3	3	-	-	1	4	3	-	1	1	6	4	3
Third Submittal	1	2	2	1	2	1	1	1	1	3	1	7	-
<u>Building/Tenant Improvements</u>													
First Submittal	17	19	13	9	2	16	21	12	10	3	12	4	8
Second Submittal	9	4	8	8	1	7	8	7	4	6	4	9	3
Third Submittal	3	9	5	4	1	3	1	6	3	5	1	5	3
<u>Miscellaneous Plan Reviews</u>	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PLANS REVIEWED	37	42	29	25	11	34	42	27	24	19	32	33	20

INSPECTION WORKLOAD - MONTHLY

CATEGORY	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16
<u>CONSTRUCTION</u>													
Locating Sewers	-	-	-	3	-	-	-	-	-	-	-	-	-
Permit Processing	-	-	-	-	-	-	-	-	-	-	-	-	-
Preconstruction Meetings	1	1	2	4	6	6	8	9	7	3	9	-	5
Inspections - Mains	-	-	-	-	6	3	3	2	-	2	1	-	-
Inspections - Manholes	2	13	-	10	91	49	15	8	13	3	-	-	81
Inspections - Laterals	8	9	14	10	15	16	45	29	22	20	20	9	7
Inspections - Cleanouts	12	51	43	17	48	41	42	60	51	28	25	4	29
Inspections - Review Video	1	2	1	4	2	1	4	-	4	-	3	-	2
Demo - Septic Tanks	-	-	-	-	-	-	-	-	-	-	-	-	-
Demo - Buildings	1	-	-	-	1	3	-	-	2	-	1	-	-
Update Record Drawings	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	25	76	60	48	169	119	117	108	99	56	59	13	124
<u>MISCELLANEOUS</u>													
Meter Readings	-	15	33	-	-	10	-	9	9	10	9	-	9
Washdown Facility Inspections	11	-	-	-	-	-	-	-	-	-	-	-	-
General Customer Assistance	20	4	3	7	36	37	16	10	1	4	4	9	13
City of Napa Water Discharge	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	31	19	36	7	36	47	16	19	10	14	13	9	22
<u>SPECIAL PROJECTS</u>													
	18	5	6	-	3	-	15	21	22	31	22	7	9

POLLUTION PREVENTION WORKLOAD - MONTHLY

CATEGORY	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16
<u>Outreach Activities</u>													
Plant Tours Conducted	1	2	1	3	2	1	4	4	2	0	0	0	7
Presentations Made	0	0	0	0	1	1	5	2	0	0	1	0	0
Total Outreach Activities	1	2	1	3	3	2	9	6	2	-	1	-	7
<u>Inspections Conducted</u>													
Food Service Facilities	1	-	10	24	30	31	19	12	-	-	-	1	-
Auto Body & Car Wash	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	1	1	-	-	-	-	-	-
Total Inspections	1	-	10	24	30	32	20	12	-	-	-	1	-
<u>Compliance Issues</u>													
NOVs Issued	1	3	1	2	-	1	2	-	2	1	-	-	-
NOEs Issued	1	1	1	-	-	-	1	2	-	-	-	1	-
Non-Compliant-FOG	-	-	-	-	1	-	-	-	-	-	-	-	-
Total Compliance Issues	2	4	2	2	1	1	3	2	2	1	-	1	-
<u>Pollution Prevention</u>													
Clothes Washer Rebates	-	8	27	12	10	-	18	14	45	-	-	-	-
Toilet Retrofit Rebates	17	19	21	1	6	22	19	6	10	-	11	4	12
Pharmaceuticals Diverted (in lbs)	305	199	166	556	341	341	322	240	243	362	303	386	391

RECYCLED WATER DELIVERIES - MONTHLY

	Acres	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16
MONTHLY (MG)														
Water Sold														
Golf Courses	405.0	20.985	2.744	0.795	-	0.027	0.070	13.197	37.578	57.273	62.709	63.227	49.600	25.538
Cemeteries	5.0	0.448	0.082	-	-	0.145	0.000	0.015	0.447	0.709	0.931	0.754	1.225	0.328
Parks	18.5	0.415	0.086	-	-	-	-	0.036	0.725	1.078	1.299	1.172	0.741	0.205
Schools	21.0	1.119	0.382	0.088	-	0.040	0.075	0.360	1.528	2.675	2.181	2.120	1.497	0.630
Commerical	167.6	10.945	4.335	0.609	-	0.346	2.430	6.403	11.038	17.053	15.318	17.259	15.070	9.553
Vineyards	564.0	0.396	10.205	0.045	-	0.446	0.365	5.268	2.034	13.413	15.693	21.832	17.609	6.065
Trucked Water	175.0	0.473	0.039	0.020	-	0.010	0.018	0.098	0.064	0.135	0.232	1.042	0.135	0.124
Subtotal Sales	1,356.1	34.780	17.872	1.556	-	1.012	2.958	25.377	53.413	92.336	98.363	107.405	85.877	42.444
District Use														
Jameson	330.0	14.046	-	-	-	-	0.084	-	-	1.481	5.414	12.456	20.935	12.608
Somky	213.0	10.220	-	-	-	-	-	-	-	2.950	16.037	21.318	22.108	10.000
Fagundes/Airport	50.5	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal District	593.5	24.266	-	-	-	-	0.084	-	-	4.431	21.451	33.774	43.043	22.609
TOTAL DELIVERED	1,949.6	59.046	17.872	1.556	-	1.012	3.042	25.377	53.413	96.766	119.814	141.178	128.920	65.053
ANNUAL (AF)														
Water Sold														
Golf Courses	405.0	1,001	997	1,000	999	999	915	899	840	869	891	920	946	960
Cemeteries	5.0	15	15	15	15	15	15	13	13	13	13	13	15	14
Parks	18.5	17	17	17	17	17	17	16	16	17	17	17	17	16
Schools	21.0	40	40	40	40	40	37	35	35	37	38	38	37	36
Commerical	167.6	293	295	294	292	286	275	270	276	294	295	303	309	305
Vineyards	564.0	21	51	49	49	50	49	64	68	103	149	215	268	285
Trucked Water	175.0	9	8	7	6	6	6	6	6	5	5	8	7	6
Subtotal Sales	1,356.1	1,396	1,423	1,422	1,419	1,414	1,313	1,303	1,254	1,339	1,409	1,515	1,599	1,622
District Use														
Jameson	330.0	103	103	103	103	103	103	103	103	107	124	153	167	163
Somky	213.0	291	291	291	291	291	291	291	221	195	208	230	223	222
Fagundes/Airport	50.5	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal District	593.5	394	394	394	394	394	394	394	324	302	332	383	390	385
TOTAL DELIVERED	1,949.6	1,790	1,816	1,816	1,812	1,807	1,707	1,697	1,578	1,641	1,740	1,897	1,989	2,007

BIOSOLIDS HANDLING - MONTHLY

Site	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16
<u>Land Applied by NSD</u>													
Somky													
Airport/Fagundes													
Jameson Canyon	84	49	-	-	-	-	-	139	210	178	217	65	97
Subtotal by NSD	84	49	-	-	-	-	-	139	210	178	217	65	97
<u>Land Applied by Contractor</u>													
Somky													
Airport/Fagundes													
Jameson Canyon													
Subtotal by Contractor	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Land Applied	84	49	-	-	-	-	-	139	210	178	217	65	97
Off Site (Contractor)													
Total (tons)	84	49	-	-	-	-	-	139	210	178	217	65	97

COLLECTION SYSTEM MAINTENANCE - MONTHLY

CATEGORY	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16
<u>Plugups</u>													
Total Calls	57	53	69	78	58	43	41	45	33	48	52	48	56
Business Hours	35	29	40	40	42	22	31	30	22	27	35	35	34
After Hours	22	24	29	38	16	21	10	15	11	21	17	13	22
District's	21	19	27	28	17	13	11	14	8	13	17	18	12
Property Owner's	36	34	42	50	39	30	30	31	25	35	35	30	44
Plugged Main Lines			1			2		1			1		1
Run Lateral w/Eel	169	102	77	78	68	98	129	178	114	111	85	111	83
<u>Cleaning (feet of sewer)</u>													
Vector #1	57,917	51,959	40,292	44,407	44,811	38,201	65,231	46,352	57,690	43,988	61,502	47,869	40,711
Vector #2	11,147	12,224	14,325	6,329	9,199	14,073	325	9,687	4,002	6,288		2,184	14,730
Hydro													
Rodder					650								
Total (feet)	69,064	64,183	54,617	50,736	54,660	52,274	65,556	56,039	61,692	50,277	61,502	50,053	55,442
<u>Cleaning Days</u>													
Vector #1	19	16	18	16	13	14	18	17	17	15	19	15	13
Vector #2	6	6	5	2	7	3	1	2	2	3		1	4
Hydro													
Rodder					1								
<u>Feet/day</u>													
Vector #1	3,050	3,250	2,250	2,800	3,450	2,750	3,600	2,750	3,400	2,950	3,250	3,200	3,150
Vector #2	1,850	2,050	2,850	3,150	1,300	4,700	350	4,850	2,000	2,100		2,200	3,700
Hydro													
Rodder					650	222							
<u>Video Inspections</u>													
Mains (feet)	12,031	8,137	7,248	6,583	9,718	12,343	8,670	17,352	15,115	3,878	15,885	6,453	10,131
Laterals (each)	230	159	173	175	131	154	181	225	152	183	140	161	174
<u>Construction (each)</u>													
Cleanouts	7	10	23	22	20	13	17	7	10	7	3	16	8
Laterals		2	2	5	8		4	3	5	4			10
Mains	1			1			2						3
Manholes	1												1
Other								39					
<u>USA Markings</u>													
Regular (w/in 2 days)	251	218	178	222	281	247	270	319	225	244	326	252	215
Emergency (w/in 2 hours)	13	8	16	21	8	13	5	-	6	14	8	10	6

WASTEWATER PLANT OPERATIONS DATA - MONTHLY

[illegible]

WASTEWATER PLANT MAINTENANCE and LABORATORY DATA - MONTHLY

CATEGORY	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16
<u>Scheduled</u>													
Old	50	74	66	78	39	55	77	66	53	55	37	39	50
New	88	75	76	93	77	98	93	70	105	80	100	75	91
Completed	64	83	64	132	61	76	104	83	103	98	98	64	84
New Balance	74	66	78	39	55	77	66	53	55	37	39	50	57
<u>Unscheduled</u>													
Old	74	80	66	65	82	81	88	64	71	74	71	62	62
New	33	21	25	43	33	30	31	52	44	37	28	33	25
Completed	27	35	26	26	34	23	55	45	41	40	37	33	31
New Balance	80	66	65	82	81	88	64	71	74	71	62	62	56
<u>Total Work Orders</u>													
Old	124	154	132	143	121	136	165	130	124	129	108	101	112
New	121	96	101	136	110	128	124	122	149	116	128	108	116
Completed	93	118	90	158	95	99	160	128	144	138	136	96	115
New Balance	154	132	143	121	136	165	130	124	129	108	101	112	113
<u>LAB ANALYSES</u>													
<u>Sample Type</u>													
Regulatory	346	408	408	315	281	325	392	130	158	193	179	193	204
Process Control	791	1,310	1,258	1,288	1,157	1,276	1,235	778	729	744	907	739	766
Special Request	174	299	235	60	17	1	5	320	11	207	93	-	19
Quality Control/Assurance	7	302	302	372	500	306	349	209	5	32	5	5	50
TOTAL	1,318	2,319	2,203	2,035	1,955	1,908	1,981	1,437	903	1,176	1,184	937	1,039

**Summary of NSD Capital Project Status
through 10-31-2016**

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			88,700	-	3,164	85,536	4%
13702	Manhole Raising/Rehab	198,900			198,900	174,085	4,289	20,526	2%
13703	Lateral Replacement/Rehab	72,000			72,000	9,473	16,626	45,901	23%
13704	Cleanouts Installation/Rehab	87,000			87,000	-	15,729	71,271	18%
13705	I&I Reduction Program	200,000			200,000	56,714	8,540	134,746	4%
14703	Browns Valley Rd & First St	2,800,000	813,800		3,613,800	583,184	147,086	2,883,531	4%
15703	Sarco Crk PL Rplcmnt/CalTRANS	1,050,000	(34,250)		1,015,750	795,021	186,824	33,904	18%
15721	ACP CIPP Lining Project #1	-	330,000		330,000	1,659	296,606	31,736	90%
16701	Basin L - I&I Reduction #5	1,400,000	(490,400)		909,600	80,674	633,464	195,462	70%
16718	NN Siphon Vault Cover Replacement	-	5,000		5,000	-	1	4,999	0%
16723	Milliken Creek Sewer Repair	-	150,000		150,000	103,398	50	46,552	0%
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	83,680	50	6,270	0%
17704	Infltrtn Rehab - SSMH/PL (CI-)	400,000		(300,000)	100,000	4,400	11,268	84,332	11%
17705	Soscol Ave (8th to Oil Co Rd)	500,000			500,000	73,971	-	426,029	-
17706	Rehab - Ranch De Los Robles	400,000		(400,000)	-	-	-	-	-
17707	66-inch Trunk CCTV Inspection	150,000			150,000	-	-	150,000	-
17708	Basin G - I&I Reduction #1	1,200,000		1,180,000	2,380,000	-	-	2,380,000	-
17734	Homewood/Westwood I/I Reduction	-		200,000	200,000	-	-	200,000	-
<u>COLLECTION SYSTEM - EQUIPMENT</u>									
17709	Eel Replacment 1	5,400		100	5,500	5,454	5,454	(5,409)	99%
17710	Vehicle 510 - Water Truck	207,900		(18,100)	189,800	66,159	120,001	3,640	63%
<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	23,743	2,712	23,995	5%
17712	Headworks/Primary - Odor Ctrl	20,000		5,000	25,000	20,737	-	4,263	-
<u>TREATMENT - EQUIPMENT</u>									
13741	Secondary PS Pump Rebuild (3)	37,500	7,200		44,700	4,460	-	40,240	-
13743	Risidual Analyzers (Deox) Replacements	-		20,000	20,000	7,995	-	12,005	-
14720	Belt Press Polymer Skid Replacement	-	55,700		55,700	-	47,724	7,976	86%
15711	Rotork Actuator Replacement	-	52,750		52,750	-	6,200	46,550	12%
15712	Rehab Pond 1 Storage Structure	25,000	5,000		30,000	-	-	30,000	-
15713	Aeration Basin Instrmntn/Ctrl	1,200,000	(126,000)	500,000	1,574,000	928,635	477,998	167,366	30%
16713	Buried Metallic Piping (eval/rehab)	40,000	10,000	(8,200)	41,800	-	-	41,800	-
16714	High Voltage System Repairs	-	30,000	20,000	50,000	16,000	-	34,000	-
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	-	-	53,600	-

**Summary of NSD Capital Project Status
through 10-31-2016**

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	-	-	60,000	-
17715	Turbidimeters (7) Tertiary Rplcmnts	11,800		11,200	23,000	21,516	-	1,484	-
17716	FOG - Strain Press	200,000			200,000	165,078	-	34,922	-
17717	Energy Audit - Odor Control VFD	51,700			51,700	-	-	51,700	-
17718	Energy Audit - LED Pole/Arm Mounted Fixtures	78,100		50,000	128,100	-	53	128,048	0%
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	-
17722	Main - Stationary Gas Detector Replacment Ph 2	140,000		35,000	175,000	-	-	175,000	-
17723	Main - Rotork Actuator Replacment	88,700			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	9,570	1	29,129	0%
17726	Headworks Equipment Rehab/Replacment	10,000		100,000	110,000	69,381	-	40,619	-
17727	Roof Replacement - Digester 2nd Floor	125,000			125,000	-	-	125,000	-
17728	Roof Replacement - AB/Blower Building	40,000			40,000	-	-	40,000	-
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		63,600	-	677	62,923	1%
16716	Line Recycled Water Reservoir	1,320,000	(18,400)	(1,000,000)	301,600	59,473	65,561	176,566	22%
17730	Jameson Solids Pad Dump Bay	15,000		(15,000)	-	-	-	-	-
17731	Jameson Office Trailer Replacment	25,000			25,000	18,860	-	6,140	-
17732	Vehicle 710 - 8830 Tractor	200,000		(30,000)	170,000	165,932	-	4,068	-
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	319,244	2,899	177,857	1%
14727	Split N/S Lines, surge protection	-	50,000		50,000	20,018	10,103	19,879	20%
15718	LCWD Recycled Water Pipeline - Construction	-	500,000		500,000	338,819	17,876	143,305	4%
16722	MST RW Pipeline Extension	1,200,000	(700)		1,199,300	365,980	9,588	823,732	1%
<u>OTHER</u>									
13729	Development Technical Support	231,800			231,800	-	81,316	150,484	35%
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	\$4,817,798	\$2,486,640	\$11,979,513	13%