

MONTECITO SANITARY DISTRICT



2014 ANNUAL SUMMARY REPORT

NPDES No. CA0047899

Order No. R3-2012-0016



Montecito Sanitary District

1042 Monte Cristo Lane
Santa Barbara, CA 93108
General Manager: Diane M. Gabriel, P.E.

A Public Service Agency

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January 30, 2015

California Regional Water Quality Control Board
Central Coast Region
895 Aerovista Place, Suite 101
San Luis Obispo, CA 93401

SUBJECT: NPDES Permit No. CA 0047899
Order No. R3-2012-0016
Annual Summary Report 2014

Staff of the Regional Board:

In accordance with the requirements of the general provisions of the District's NPDES Permit No. CA0047899, we are transmitting the District's Annual Report for 2014. The monitoring data compiled throughout the year is presented in both tabular and graphic form.

The report includes the names and job titles of District personnel, the Governing Board of Directors and an organizational chart.

Throughout the 2014 calendar year the following certified operators were employed by the District:

- Daniel Jacquez, Chief Plant Operator, III-28608, exp. date 06/30/16
- Chad Steinlicht, Operator, III-10297, exp. date 12/31/15
- Mark Liebenow, Operator, V-8800, exp. date 06/30/2016 (*Resigned 9/7/14*)
- Marco Felix, Operator, III-41171, exp. 9/27/15 (*Hired 4/14/14*)
- Marc Ciarlo, Operator, III-41067, exp. date 02/06/16 (*Hired 10/20/14*)
- Brett J. Walker, Operations & Maintenance Manager, III-6254, exp. date 12/31/14 (*Resigned 1/3/14*)
- Craig Couture, Operator II-39838, exp. date 12/31/14 (*ended employment 1/24/14*)

On June 21, 2014, a Southern California Edison power outage caused a failure of the District's chemical de-chlorination system. This event caused an exceedance in the Instantaneous Maximum Total Chlorine Residual of 5400µg/L. Mr. Peter von Langen, Engineering Geologist for the RWQCB was contacted immediately and he was emailed the details for the event. The corrective actions taken by the District to prevent a reoccurrence of such an incident were described in the District's June 2014 monthly report.

Beginning July 14, 2014, the District hired PatChem Laboratories, ELAP Cert. No. 1531, for all Coliform analyses. CBOD, Oil & Grease and Ammonia (NH₃-N) samples continued to be performed by Fruit Growers Laboratory (FGL). Annual samples were collected for influent, effluent and biosolids on August 4, 2014 and analyses were performed by FGL. Aquatic Bioassay & Consulting Laboratories (ABC Labs) performed annual Chronic and Acute Bioassay Testing on effluent and receiving water collected on August 4, 6 and 8, 2014. Laboratory data reports have been submitted to CIWQS with the annual data.

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On July 22, 2014 ABC Labs also conducted the once per permit required testing of ocean sediment and associated benthic environmental analyses. No anomalies of note were found. The full report has been submitted to CIWQS with the annual data.

On October 28, 2014 Hughes Commercial Diving completed the inspection of the District's ocean outfall pipeline. The entire outfall pipeline was inspected and videotaped. The full inspection report has been submitted to CIWQS with the annual data. The outfall pipeline was found to be in good condition with no leaks and no evidence of stress or damage of any kind.

The Operations and Maintenance Manual for the Montecito Sanitary District Wastewater Treatment Plant that is on file with your office will be updated in 2015.

Comments regarding the District's Collection System Maintenance and Renovation Program, as required by the NPDES permit, are included in this report on pages 21 through 23. Also included on pages 24 through 26 is a brief summary of the history of the District, our accomplishments in recent years and goals for the future. Please feel free to contact me if you have any questions or desire additional information.

Sincerely,

A handwritten signature in cursive script that reads "Diane Gabriel". The signature is written in black ink and is positioned above the printed name.

Diane Gabriel, P.E.
General Manager/District Engineer

**Montecito Sanitary District
2014 Annual Report**

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MONTECITO SANITARY DISTRICT

January 2014 – December 2014

GOVERNING BOARD

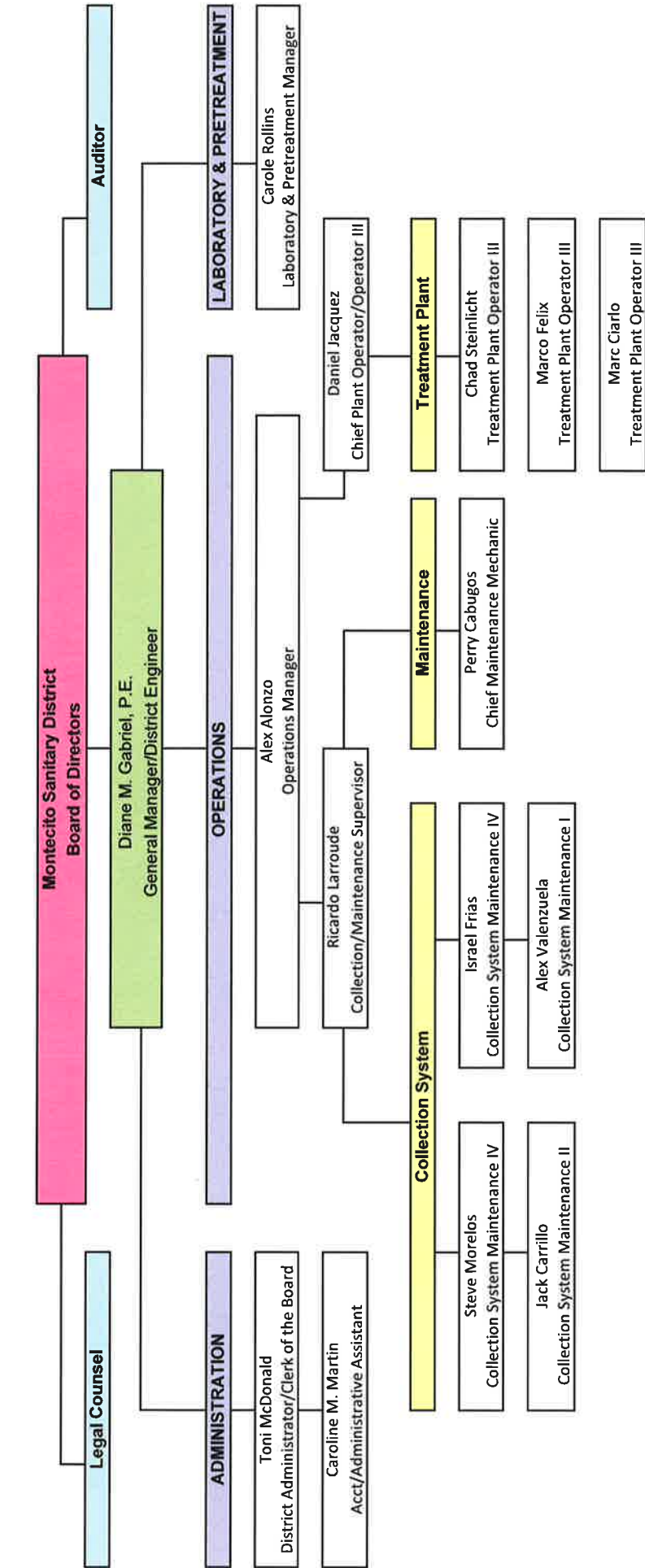
Tom Kern	President
Judith M. Ishkanian	Vice President
Jeff Kerns	Treasurer
Warner Owens	Secretary
Deirdre Cannata	Director <i>(Term ended 11/30/14)</i>
Bob Williams	Director <i>(Term Began 12/1/14)</i>

January 2014 – January 2015

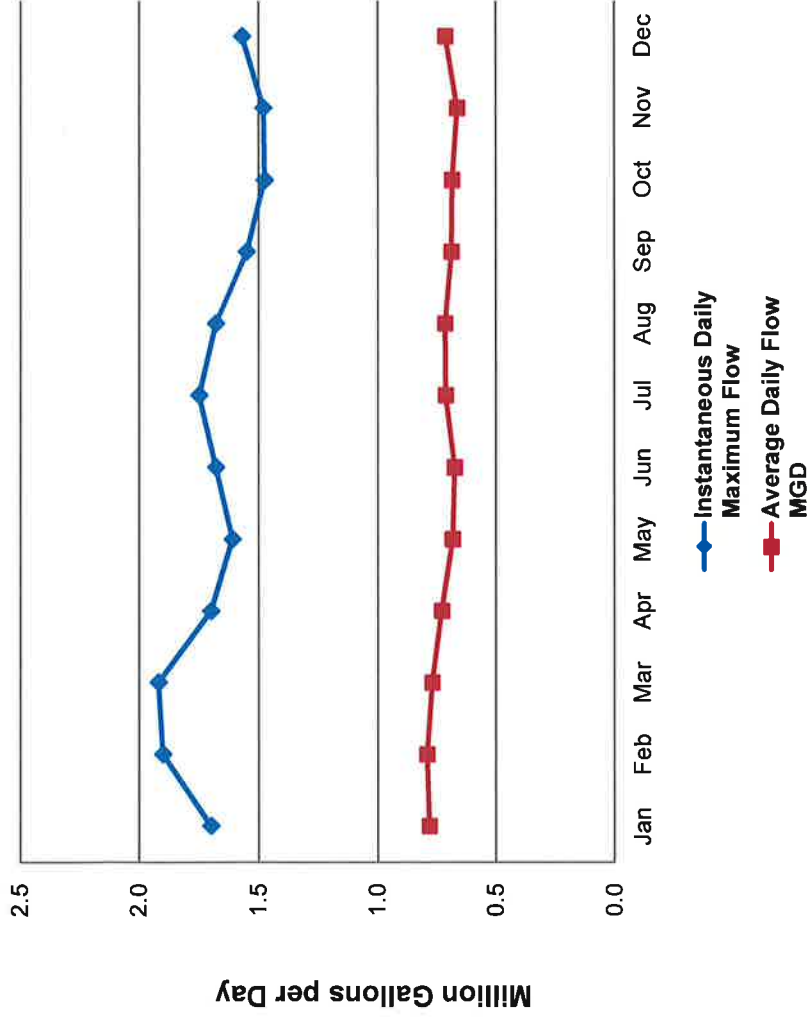
STAFF

Diane M. Gabriel, P.E.	General Manager/District Engineer
Toni McDonald	District Administrator
Caroline M. Burnet	Accounting/Administrative Assistant
Alex Alonzo	Operations Manager
Mark Liebenow	Treatment Plant Operator V <i>(Resigned 9/7/14)</i>
Daniel Jacquez	Chief Plant Operator - III
Chad Steinlicht	Treatment Plant Operator III
Marco Felix	Treatment Plant Operator III <i>(Hired 4/14/14)</i>
Marc Ciarlo	Treatment Plant Operator III <i>(Hired 10/20/14)</i>
Brett J. Walker	Operations & Maintenance Manager <i>(Resigned 1/3/14)</i>
Craig Couture	Treatment Plant Operator II <i>(Ended emp. 1/24/14)</i>
Carole Rollins	Pretreatment & Laboratory Manager
Ricardo Larroude	Collection/Maintenance Supervisor
Perry Cabugos	Chief Maintenance Mechanic <i>(Hired 8/29/14)</i>
Steve Morelos	Collection System Maintenance IV
Israel Frias	Collection System Maintenance III
Jack Carrillo	Collections System Maintenance II
Alex Valenzuela	Collection System Maintenance I <i>(Hired 7/21/14)</i>

Property Owners Within the Montecito Sanitary District



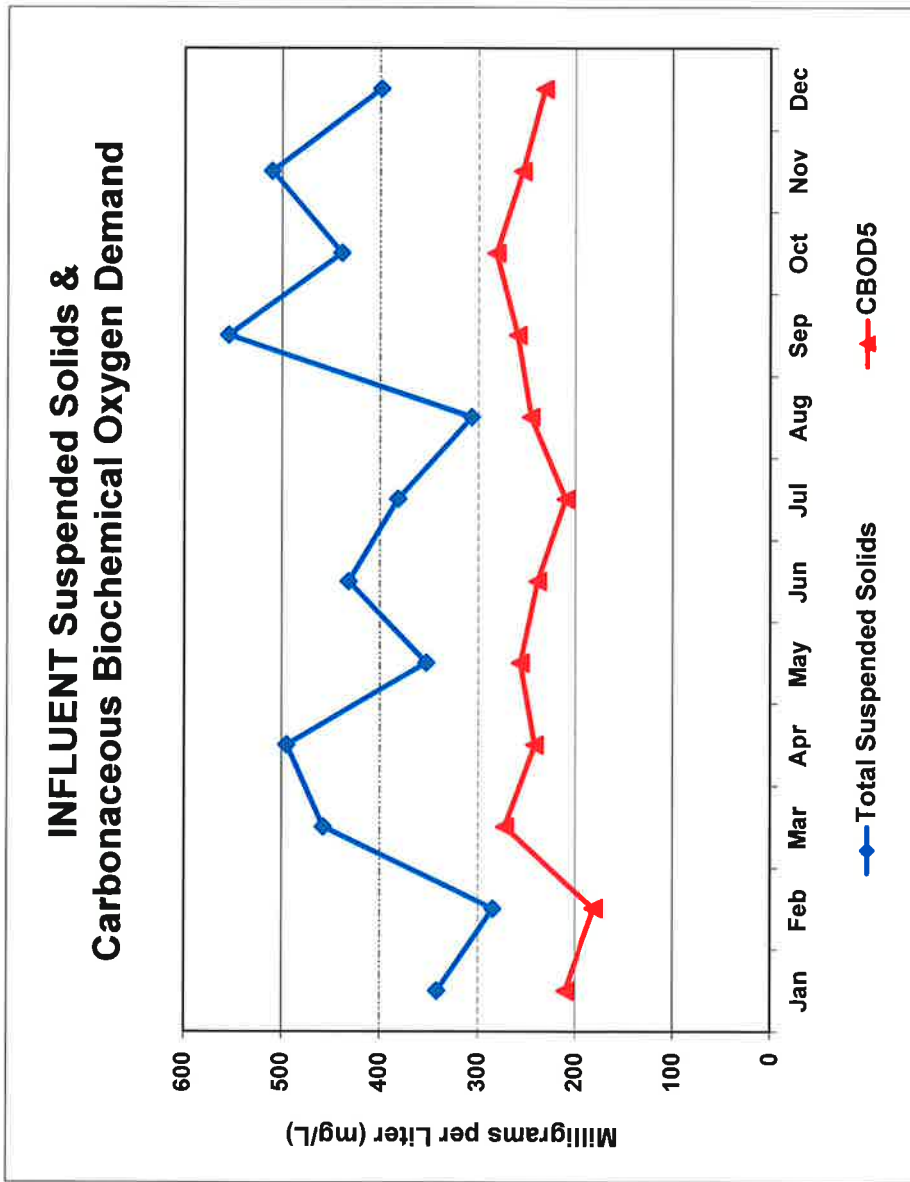
Influent Daily Flow

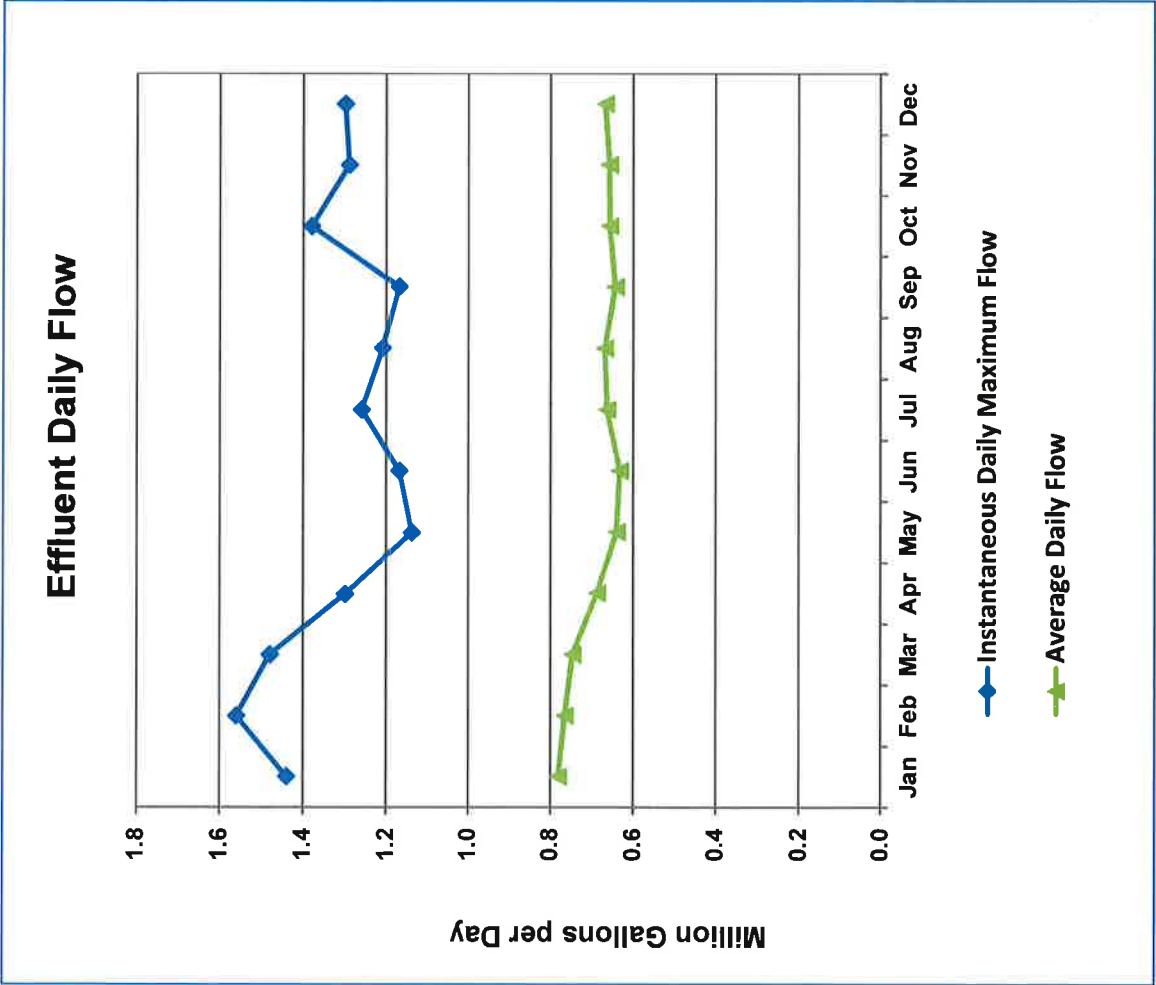


INFLUENT FLOW DATA		
Month	Instant. Daily Max	Average Daily Flow
Jan	1.70	0.782
Feb	1.90	0.791
Mar	1.92	0.770
Apr	1.70	0.729
May	1.61	0.682
Jun	1.68	0.674
Jul	1.75	0.711
Aug	1.68	0.714
Sep	1.55	0.687
Oct	1.48	0.685
Nov	1.48	0.663
Dec	1.57	0.713

Avg	1.67	0.717
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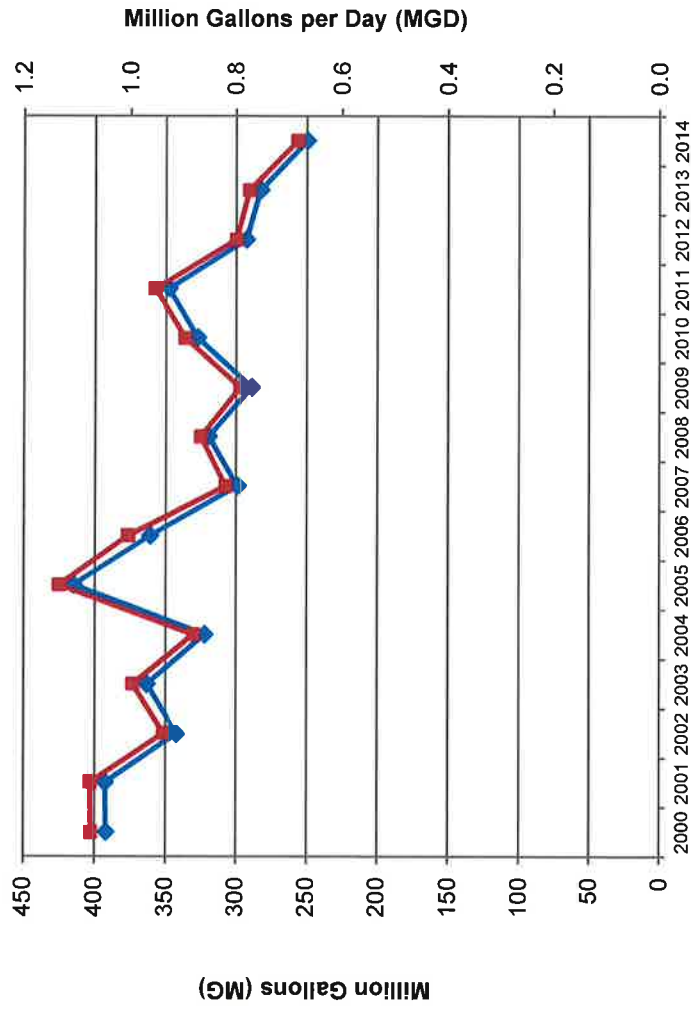
INFLUENT		
Month	Total Suspended Solids	CBOD ₅
	mg/L	mg/L
Jan	342	210
Feb	285	181
Mar	458	273
Apr	495	242
May	353	257
Jun	432	239
Jul	382	210
Aug	307	246
Sep	555	260
Oct	439	282
Nov	510	255
Dec	399	232
Avg	413	241





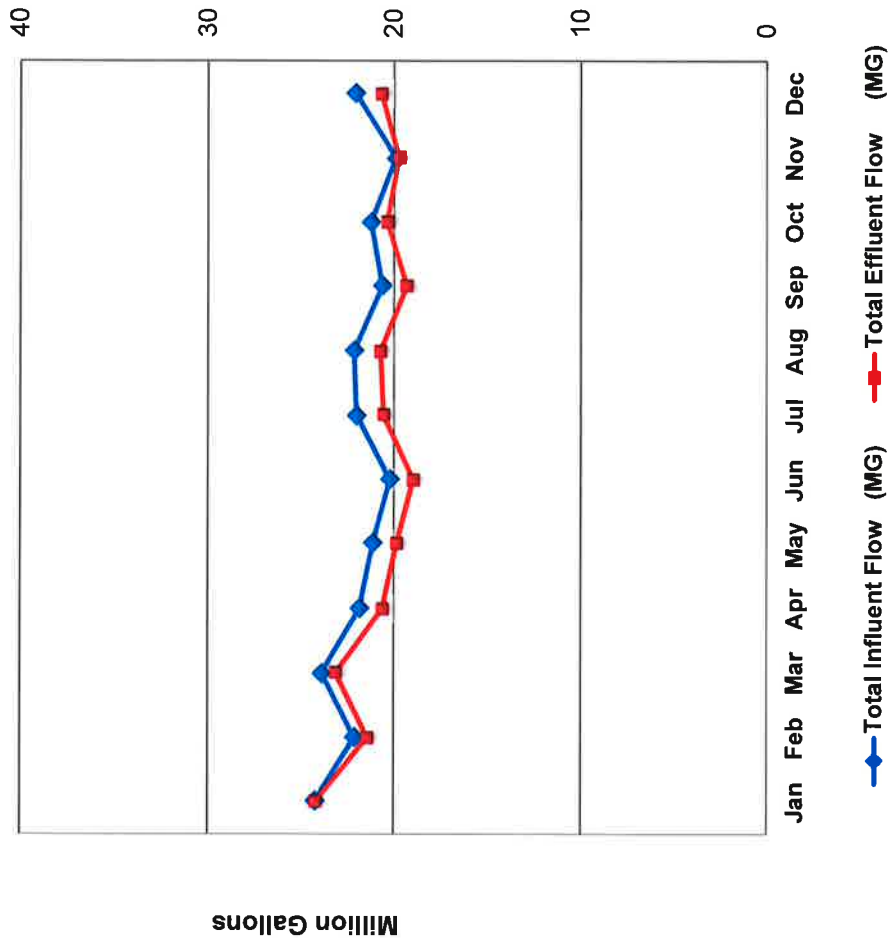
EFFLUENT FLOW DATA		
MONTH	Instant. Daily Maximum	Average Daily Flow
Jan	1.44	0.781
Feb	1.56	0.766
Mar	1.48	0.747
Apr	1.30	0.687
May	1.14	0.640
Jun	1.17	0.632
Jul	1.26	0.663
Aug	1.21	0.669
Sep	1.17	0.644
Oct	1.38	0.657
Nov	1.29	0.658
Dec	1.30	0.667
Avg	1.31	0.684

**Historical Total and Average Daily Effluent Flows
2000 to 2014**



YEAR	Total Annual Flow MG	Avg Daily Flow MGD
2000	392.00	1.074
2001	392.60	1.076
2002	342.20	0.938
2003	363.35	0.996
2004	322.40	0.881
2005	415.28	1.135
2006	361.23	1.005
2007	299.15	0.820
2008	319.48	0.867
2009	289.00	0.792
2010	327.40	0.897
2011	348.00	0.954
2012	292.90	0.800
2013	282.70	0.775
2014	249.63	0.684

Total Monthly Influent & Effluent Flows

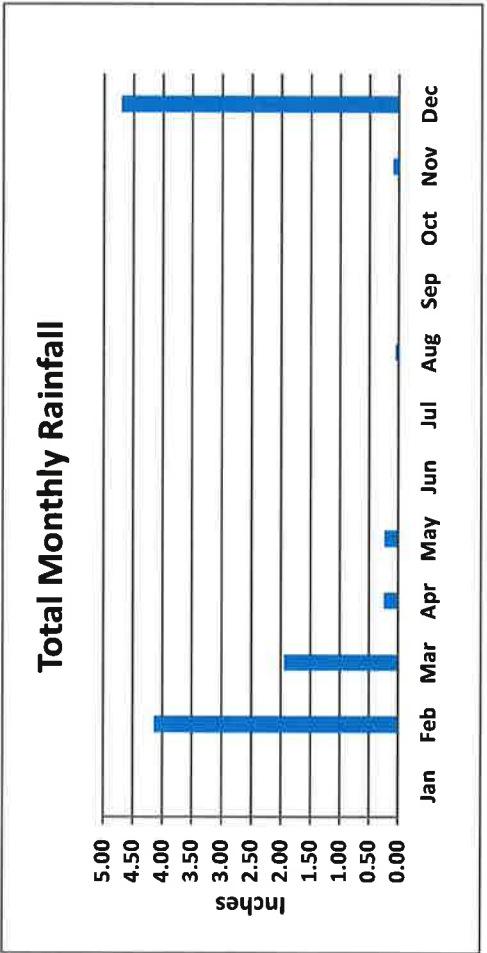
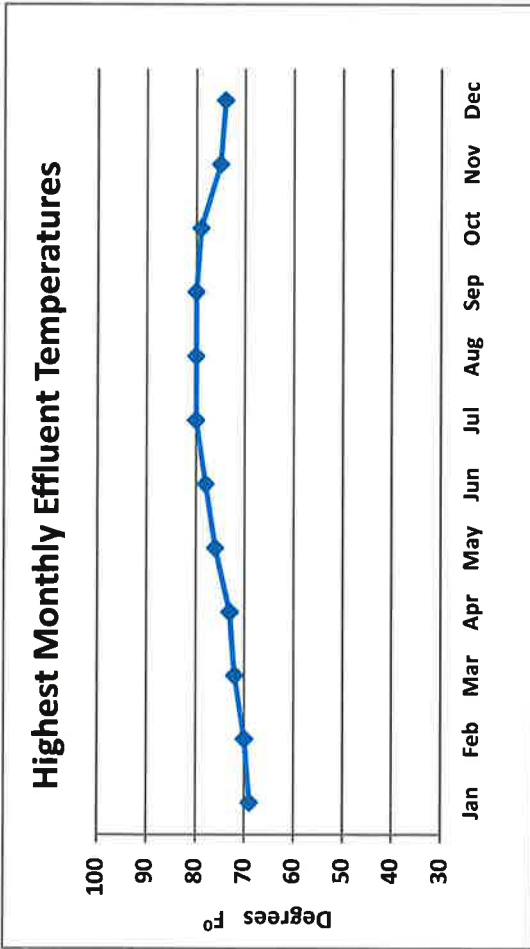


Total Annual Flows 261.5 249.6

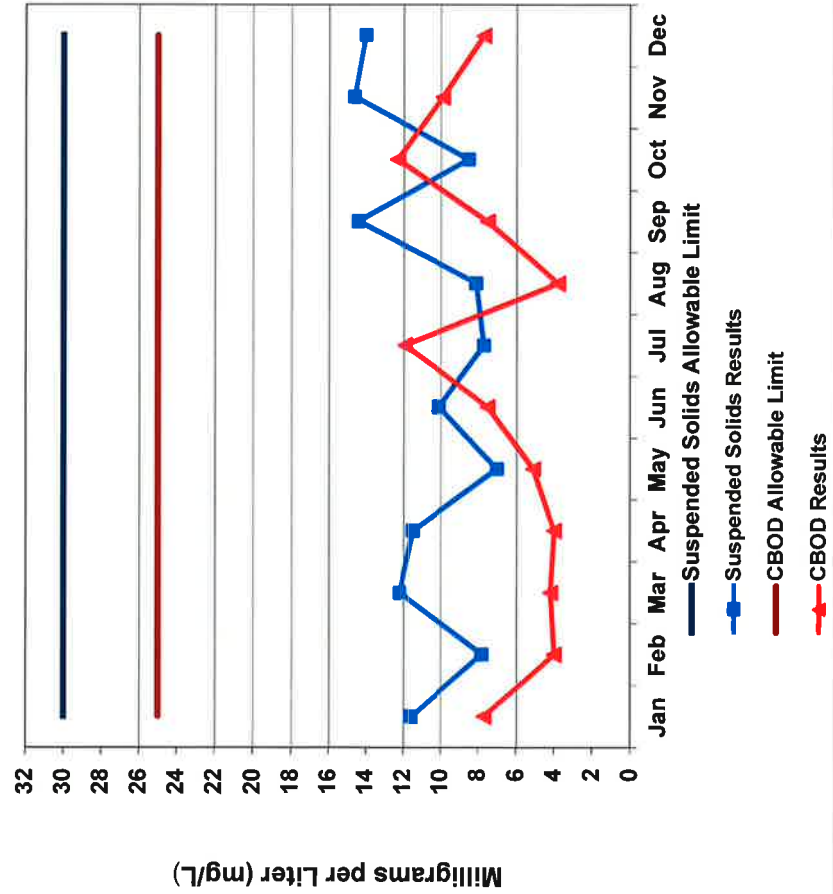
Note: Influent and Effluent flow discrepancies are due to process recycled flows and process cleaning or maintenance which drains water back to the headworks.

Month	High Temp. °F
Jan	69
Feb	70
Mar	72
Apr	73
May	76
Jun	78
Jul	80
Aug	80
Sep	80
Oct	79
Nov	75
Dec	74
Avg	76

Month	Rainfall Inches
Jan	0.01
Feb	4.14
Mar	1.95
Apr	0.24
May	0.23
Jun	0.01
Jul	0.00
Aug	0.05
Sep	0.00
Oct	0.00
Nov	0.10
Dec	4.71
TOTAL	11.44

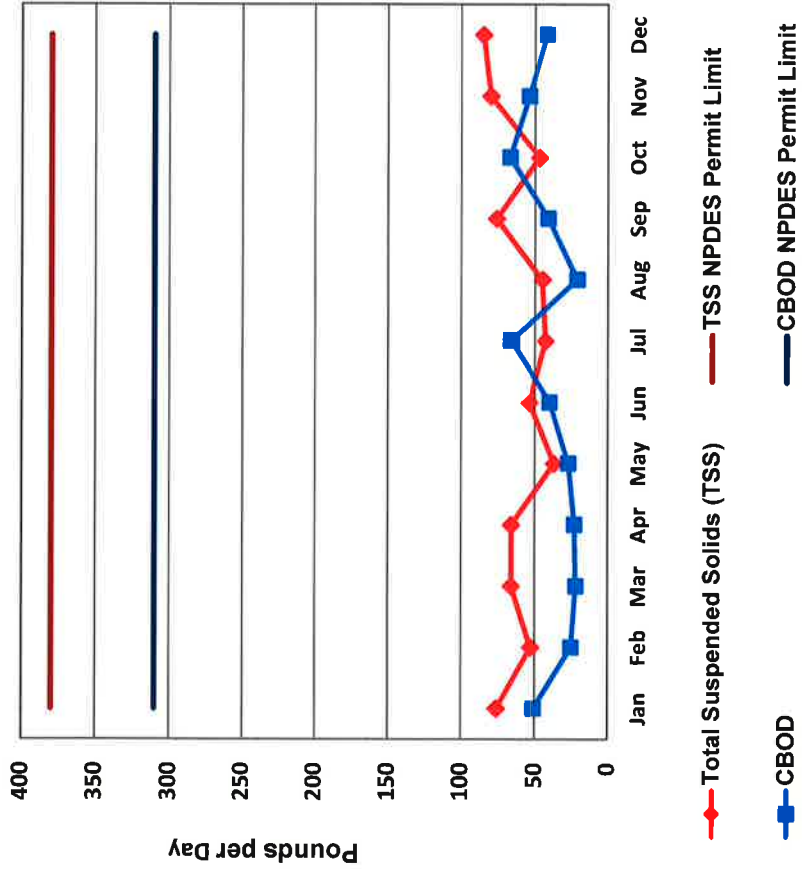


EFFLUENT Total Suspended Solids & Carbonaceous Biochemical Oxygen Demand



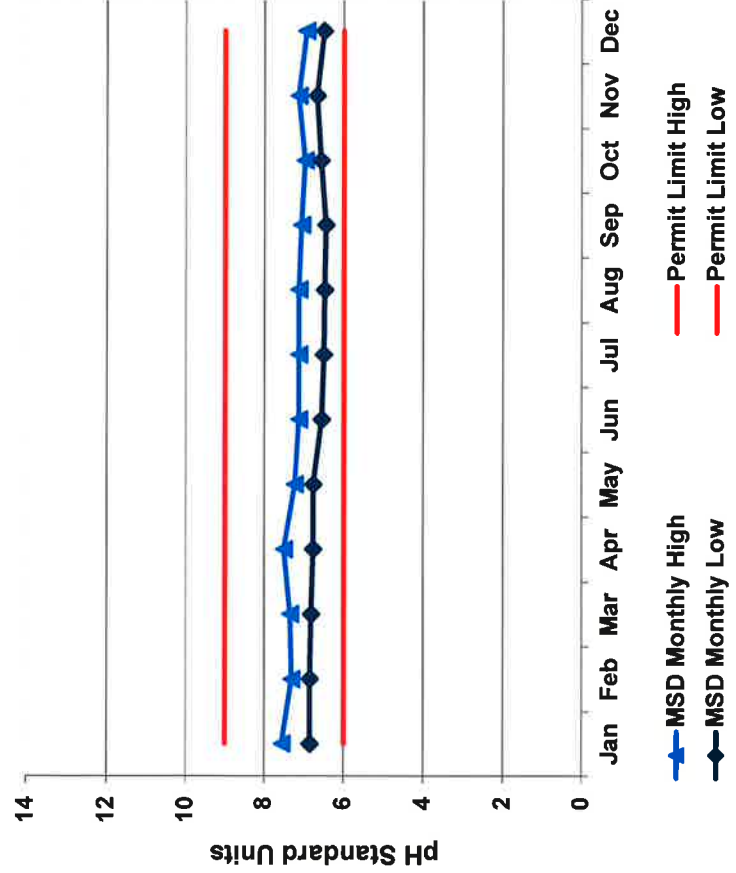
	Total Suspended Solids		CBOD ₅	
	Suspended Solids Permit Limit	Results	Permit Limit	Results
	mg/L	mg/L	mg/L	mg/L
Jan	30	12	25	7.7
Feb		7.8		4.0
Mar		12		4.2
Apr		12		4.0
May		7.0		5.1
Jun		10		7.5
Jul		7.7		12
Aug		8.1		3.8
Sep		14		7.5
Oct		8.5		12
Nov		15		9.9
Dec		14		7.7
Avg		11		7.4

**EFFLUENT
Total Suspended Solids &
Carbonaceous Biochemical Oxygen
Demand (CBOD₅)**

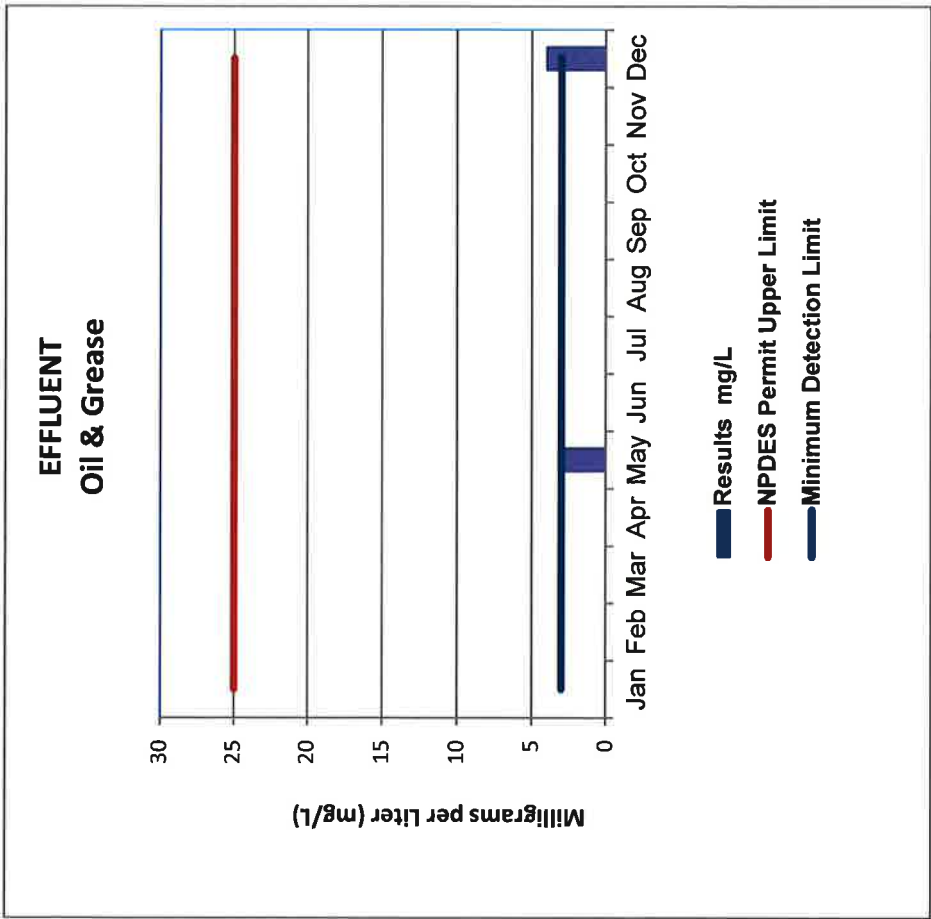


Month	Suspended Solids lbs/day	Suspended Solids NPDES Permit Upper Limit	CBOD ₅ lbs/Day	CBOD ₅ NPDES Permit Upper Limit
Jan	76	380	51	310
Feb	53		25	
Mar	66		22	
Apr	66		23	
May	37		27	
Jun	54		40	
Jul	43		66	
Aug	45		21	
Sep	76		41	
Oct	47		67	
Nov	80		54	
Dec	85		42	
Avg	61		40	

EFFLUENT pH Results & Limits



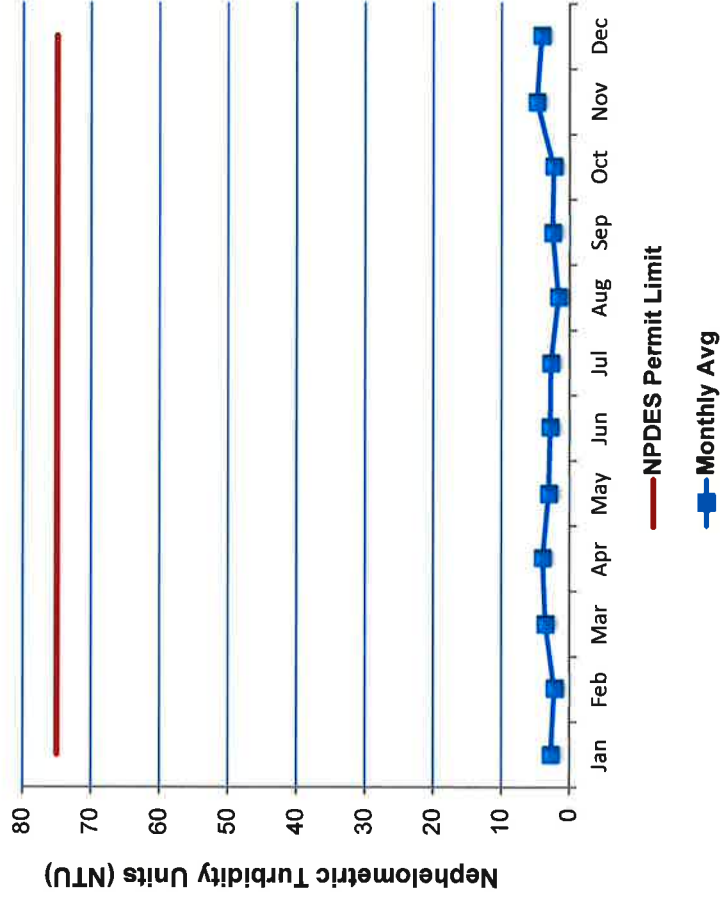
Month	MSD Monthly Low	NPDES Low Limit	MSD Monthly High	NPDES High Limit
Jan	6.84	6	7.55	9
Feb	6.84		7.30	
Mar	6.81		7.34	
Apr	6.76		7.50	
May	6.76		7.22	
Jun	6.55		7.12	
Jul	6.50		7.12	
Aug	6.48		7.12	
Sep	6.45		7.06	
Oct	6.57		6.97	
Nov	6.67		7.13	
Dec	6.49		6.93	



Oil & Grease		
Month	NPDES Limit	Results mg/L
Jan	25	0
Feb		0
Mar		0
Apr		0
May		3
Jun		0
Jul		0
Aug		0
Sep		0
Oct		0
Nov		0
Dec		4

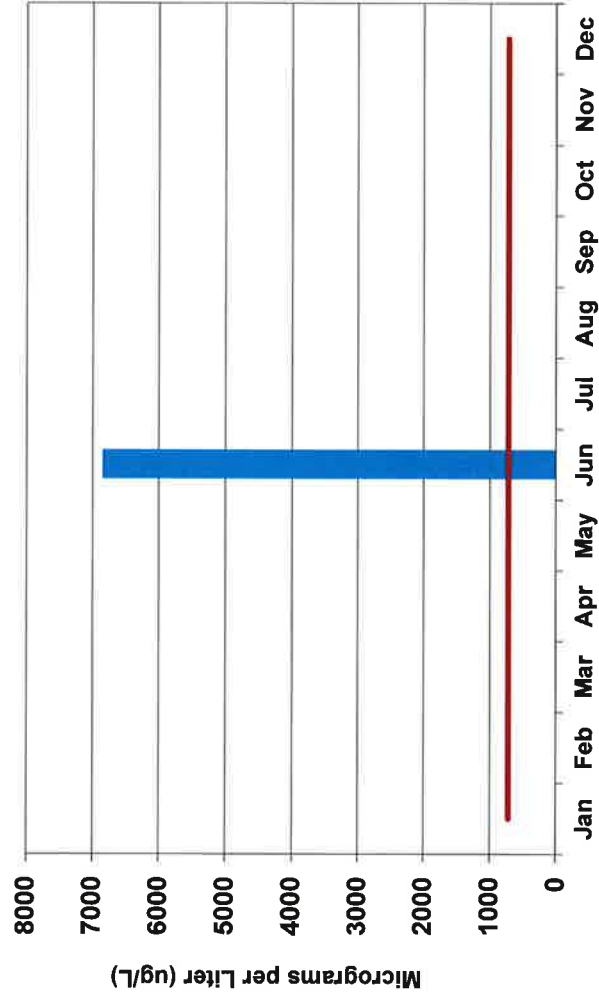
Note:
 The Method Detection Limit (MDL) is 3 mg/L.
 Values below detection are reported as 0 mg/L.

EFFLUENT Turbidity



Turbidity - NTU		
Month	NPDES Limit	Monthly Avg
Jan	75	2.8
Feb		2.2
Mar		3.6
Apr		4.0
May		3.1
Jun		2.9
Jul		2.8
Aug		1.6
Sep		2.5
Oct		2.3
Nov		4.9
Dec		4.2

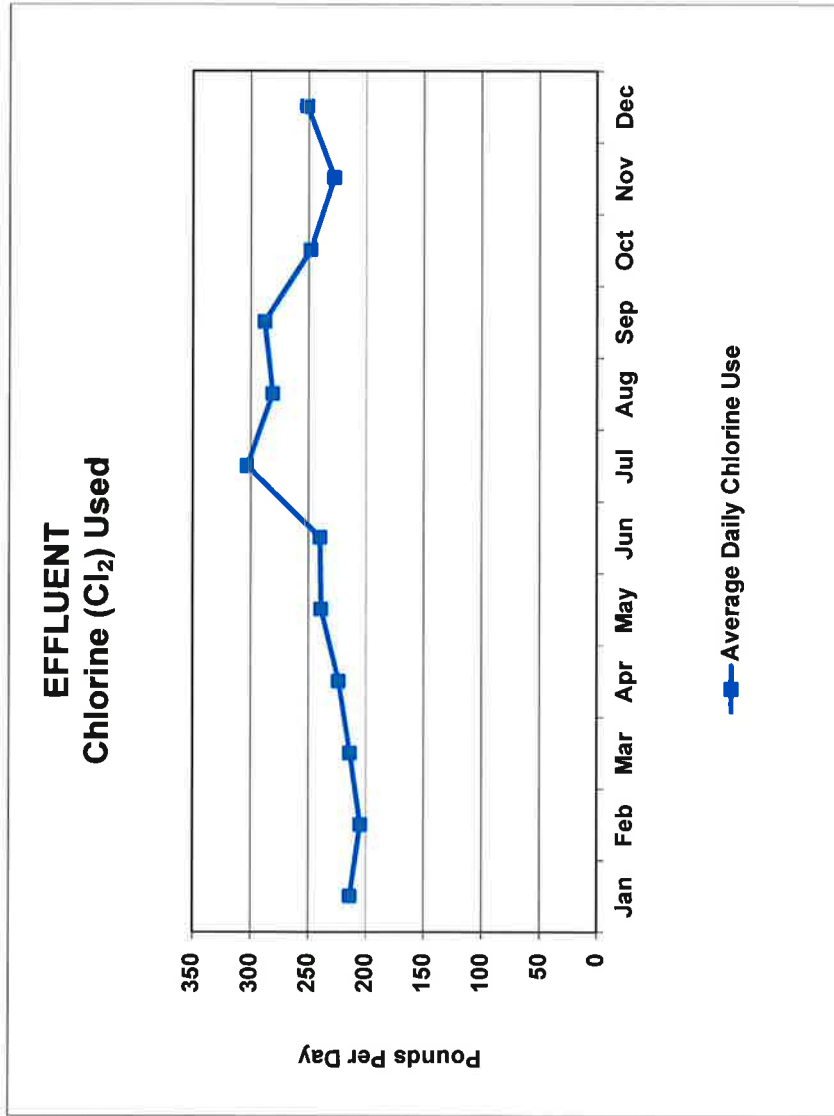
FINAL EFFLUENT Total Chlorine Residual

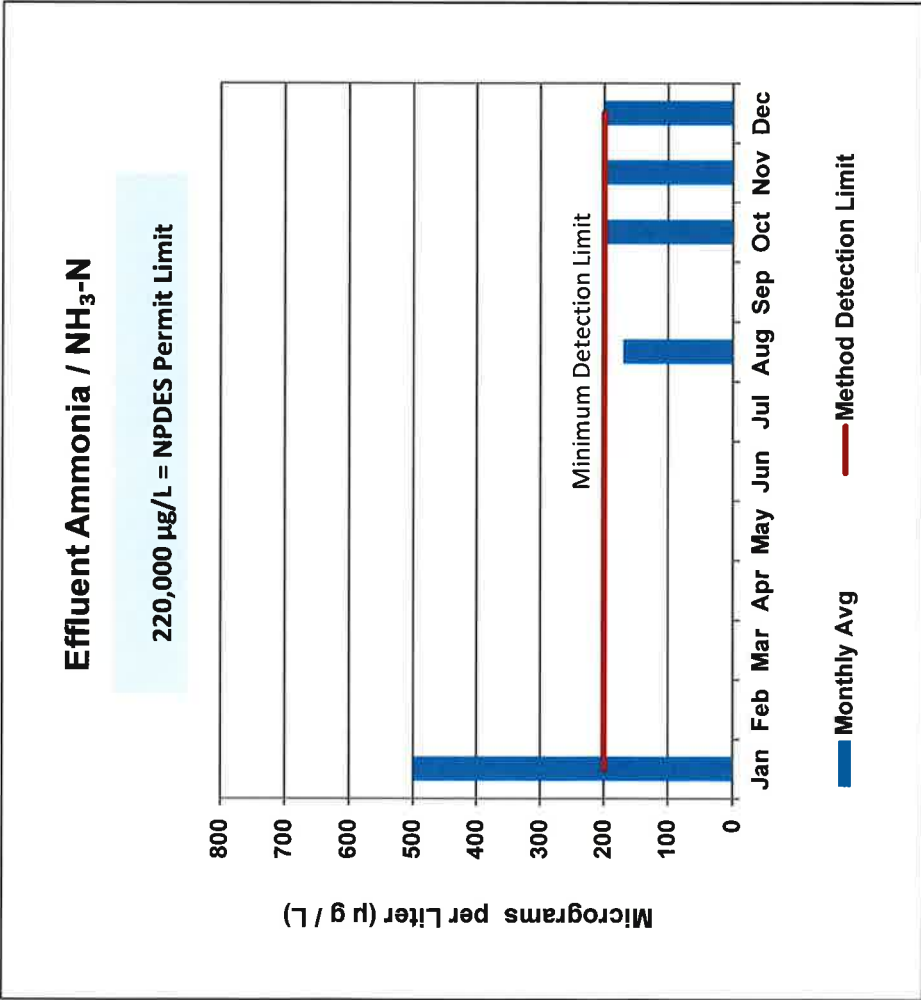


Month	NPDES Permit Upper Limit	Monthly Total Chlorine ug/L
Jan	720	0
Feb		0
Mar		0
Apr		0
May		0
Jun		6850
Jul		0
Aug		0
Sep		0
Oct		0
Nov		0
Dec		0

Note:
See annual report cover letter for explanation regarding violation.

Month	Average Chlorine lbs/day
Jan	214
Feb	205
Mar	214
Apr	224
May	239
Jun	240
Jul	303
Aug	281
Sep	288
Oct	248
Nov	228
Dec	251
Avg	245

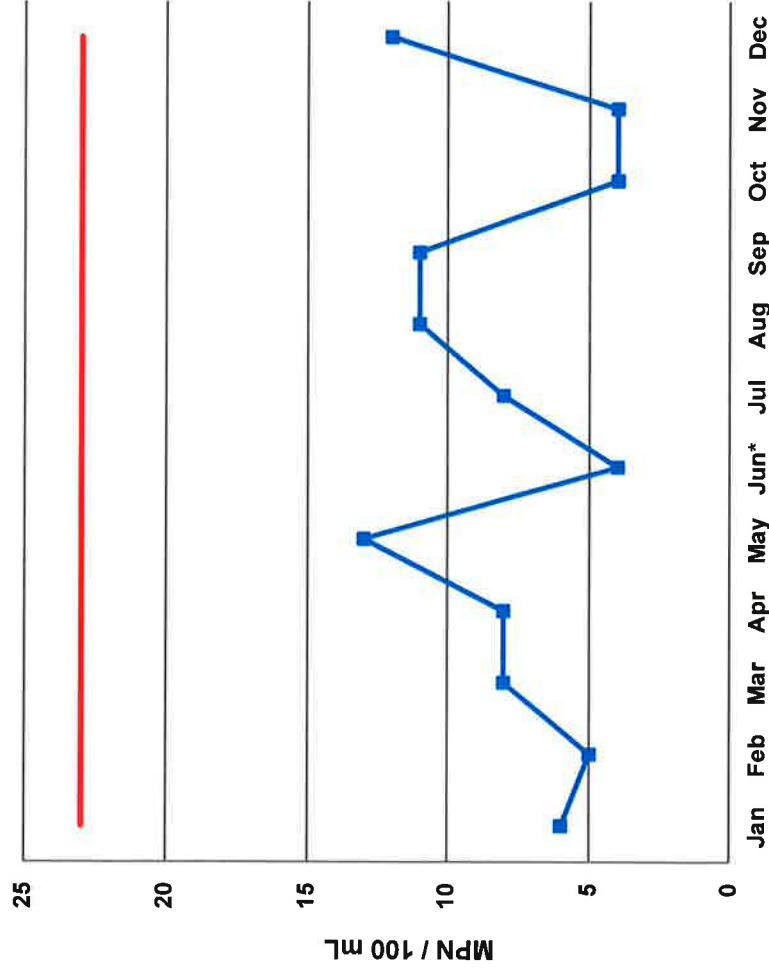




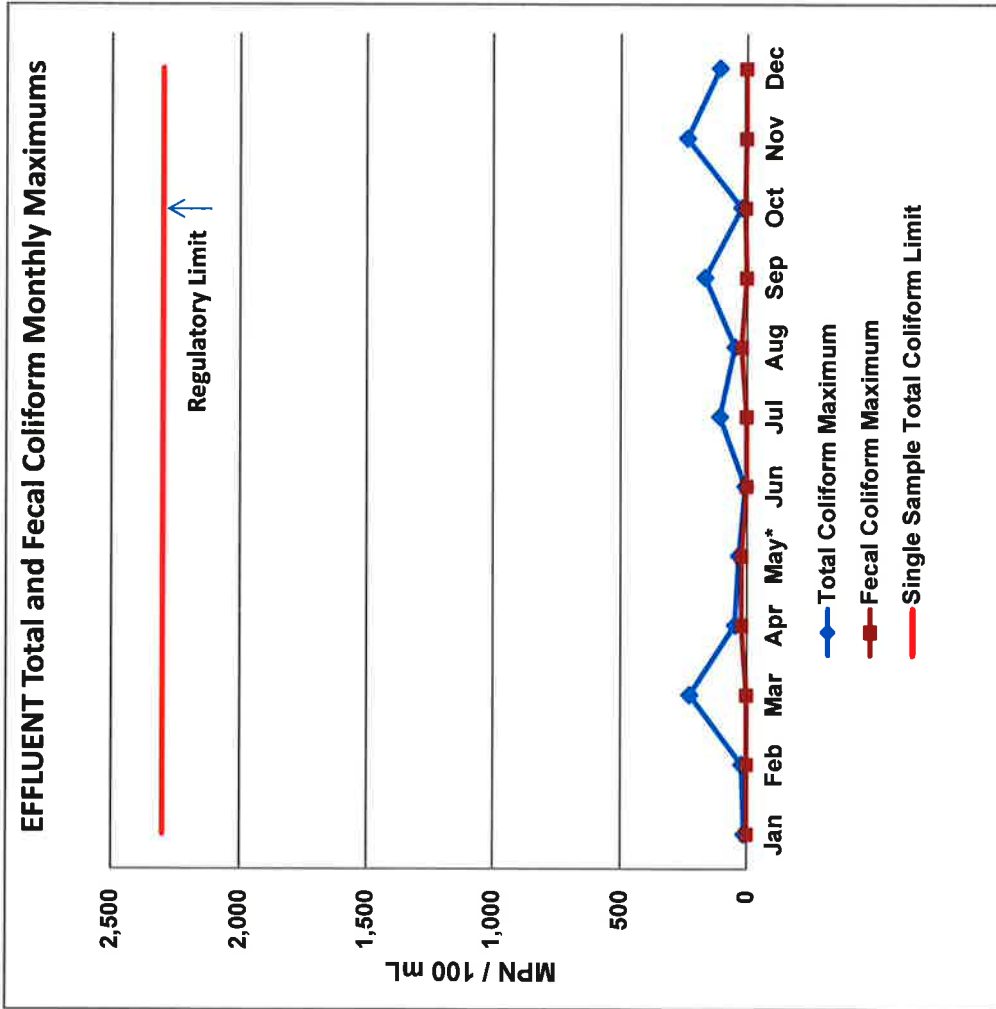
Month	Ammonia / NH ₃ -N		
	Results	Method	NPDES
	µg/L	Detection Limit (MDL) µg/L	Permit Limit µg/L
Jan	500		
Feb	0		
Mar	0		
Apr	0		
May	0		
Jun	0	200	220,000
Jul	0		
Aug	170		
Sep	0		
Oct	200		
Nov	200		
Dec	200		

Note: Below detection is reported as 0 µg/L.

EFFLUENT Total Coliform



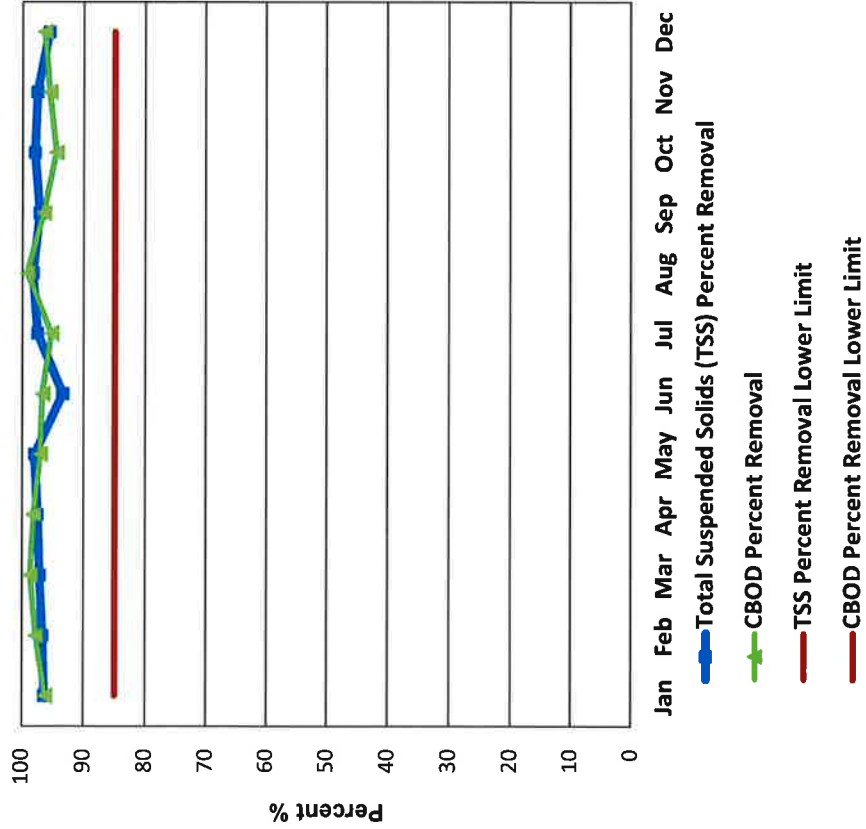
Note:
 The Method Detection Limits (MDL) for
 Total Coliform is 2 MPN/100mL



Month	MPN/100mL		
	Total Coliform Monthly Maximum	Fecal Coliform Monthly Maximum	Total Coliform Single Sample Limit
Jan	13	2	2300
Feb	22	2	
Mar	230	2	
Apr	49	23	
May*	33	23	
Jun	8	2	
Jul	110	2	
Aug	50	23	
Sep	170	2	
Oct	23	8	
Nov	240	4	
Dec	110	4	

Note:
 The Method Detection Limits (MDL) for Total and Fecal Coliform are 2 MPN/100mL.

Effluent Total Suspended Solids & CBOD₅ Percent Removal



Month	NPDES PERMIT LOWER LIMIT %	Lowest Percent Removal	NPDES PERMIT LOWER LIMIT %	Lowest Percent Removal
		Suspended Solids		CBOD
Jan	85	96	85	96
Feb		97		98
Mar		97		99
Apr		98		98
May		98		97
Jun		93		97
Jul		98		95
Aug		98		99
Sep		97		97
Oct		98		95
Nov		98		96
Dec		96		96
Avg		97		97

Tabular Data for 2014 Summary Report

I N F L U E N T										F I N A L E F F L U E N T										
2014 Month	Monthly Total Flow MG	Avg Inst Peak MGD	Avg Daily MGD	Inf TSS mg/L	TSS lbs/day	CBOD ₅ mg/L	CBOD ₅ lbs/day	Monthly Total Flow MG	Avg Inst Peak Flow MGD	Max Daily Flow MGD	Avg TSS mg/L	Avg TSS lbs/day	Monthly Avg TSS % Removal	Total Rain Inches	Monthly Total Flow MG	Avg Inst Peak Flow MGD	Max Daily Flow MGD	Avg TSS mg/L	Avg TSS lbs/day	Monthly Avg TSS % Removal
Jan	24.25	1.70	0.782	342	2,230	210	1,370	24.22	1.44	0.825	11.6	76	96	0.01	24.22	1.44	0.825	11.6	76	96
Feb	22.14	1.90	0.791	285	1,880	181	1,194	21.44	1.56	1.050	7.8	53	97	4.14	21.44	1.56	1.050	7.8	53	97
Mar	23.87	1.92	0.770	458	2,941	273	1,753	23.14	1.48	1.451	12.2	66	97	1.95	23.14	1.48	1.451	12.2	66	97
Apr	21.86	1.70	0.729	495	3,010	242	1,471	20.62	1.30	0.764	11.5	66	98	0.24	20.62	1.30	0.764	11.5	66	98
May	21.15	1.61	0.682	353	2,008	257	1,462	19.85	1.14	0.688	7.0	37	98	0.23	19.85	1.14	0.688	7.0	37	98
Jun	20.21	1.68	0.674	432	2,428	239	1,343	18.97	1.17	0.671	10.1	54	93	0.01	18.97	1.17	0.671	10.1	54	93
Jul	22.03	1.75	0.711	382	2,265	210	1,245	20.56	1.26	0.744	7.7	43	98	0.00	20.56	1.26	0.744	7.7	43	98
Aug	22.15	1.68	0.714	307	1,828	246	1,465	20.73	1.21	0.721	8.1	45	98	0.05	20.73	1.21	0.721	8.1	45	98
Sep	20.62	1.55	0.687	555	3,180	260	1,490	19.31	1.17	0.730	14.4	76	97	0.00	19.31	1.17	0.730	14.4	76	97
Oct	21.24	1.48	0.685	439	2,508	282	1,611	20.36	1.38	0.745	8.5	47	98	0.00	20.36	1.38	0.745	8.5	47	98
Nov	19.89	1.48	0.663	510	2,820	255	1,410	19.73	1.29	0.747	14.6	80	98	0.10	19.73	1.29	0.747	14.6	80	98
Dec	22.09	1.57	0.713	399	2,373	232	1,380	20.69	1.30	0.934	14.0	85	96	4.71	20.69	1.30	0.934	14.0	85	96
AVG	22	2	1	413	2,456	241	1,433	20.80	1.31	0.839	10.6	61	97		20.80	1.31	0.839	10.6	61	97
TOTALS	239.39							249.63						11.44	249.63					

Tabular Data for 2014 Summary Report

FINAL EFFLUENT																
AVG CBOD ₅ mg/L	AVG CBOD ₅ lbs	CBOD ₅ % Removal	NH3-N ug/L	NH3-N lbs	O & G mg/L	O & G lbs/day	Avg Turb NTU	pH High SU	pH Low SU	Final Effluent Cl ₂ ug/L	Cl ₂ mg/L before dechlor	Cl ₂ Total lbs/day	Max Temp °F	Max Total Coliform MPN	Max Coliform Median Total MPN	Max Fecal Coliform MPN
7.7	51	96	500	3	0	0	2.8	7.55	6.84	0	18.1	214	69	13	6	2
4.0	25	98	0	0	0	0	2.2	7.30	6.84	0	20.2	205	70	22	5	2
4.2	22	99	0	0	0	0	3.6	7.34	6.81	0	24.8	214	72	230	8	2
4.0	23	98	0	0	0	0	4.0	7.50	6.76	0	29.9	224	73	49	8	23
5.1	27	97	0	0	3	16.7	3.1	7.22	6.76	0	36.6	239	76	33	13	23
7.5	40	97	0	0	0	0	2.9	7.12	6.55	6,850	35.2	240	78	8	4	2
11.9	66	95	0	0	0	0	2.8	7.12	6.50	0	43.6	303	80	110	8	2
3.8	21	99	170	1	0	0	1.6	7.12	6.48	0	40.1	281	80	50	11	23
7.5	41	97	0	0	0	0	2.5	7.06	6.45	0	38.7	288	80	170	11	2
12.3	67	95	200	1	0	0	2.3	6.97	6.57	0	35.2	248	79	23	4	8
9.9	54	96	200	1	0	0	4.9	7.13	6.67	0	34.4	228	75	240	4	4
7.7	42	96	200	1	4	22.4	4.2	6.93	6.49	0	41.8	251	74	110	12	4
7.1	40	97	106	1	1	3	3.1	7.20	6.64	570.8	33.2	245	76	88	8	8

MONTECITO SANITARY DISTRICT

Collection System Maintenance and Renovation Program 2014

OBJECTIVE

To reduce Sanitary Sewer Overflows (SSO's), increase system reliability, optimize service life of all collection system components and plan for facility replacement.

GOALS – SHORT AND LONG TERM

Short Term:

1. Rehabilitate pipe sections that have been identified as needing repair/replacement.
2. Continue a systematic maintenance program based on past years data to identify lines that need to be cleaned and evaluated by Closed Circuit Television (CCTV) using the NASSCO pipe rating system.
3. Continue a systematic CCTV program based on the maintenance line segment ratings to identify intrusion of roots, grease and/or structural defects and also check on the effectiveness of the District's cleaning procedures and equipment.
4. District Ordinance No. 13 - To Regulate and Reduce Fat, Oil, And Grease in the Sewer System and to Require Fat, Oil, and Grease Removal Devices; was approved and adopted by the Governing Board of Directors on April 15, 2014. This ordinance is helping with the implementation and enforcement of the Fats, Oil & Grease (FOG) Program.
5. Continue to enhance the District's Geographic Information System (GIS) of the collection system piping, including routine updating of the District's maintenance activities consisting of cleaning, CCTV, and manhole inspection.
6. Continue to prioritize and make repairs on collection system piping as it is found during regular CCTV'ing activities.
7. Continue to promote and fund a program which provides a financial incentive to property owners (offering a rebate up to \$2,000) for the rehabilitation and/or replacement of private sewer laterals. The District's FY 2014-15 funding for this program is \$40,000.

8. Continue to train staff and perform the lift station maintenance program consisting of de-ragging pumps, exercising valves, generators and setting up emergency by-pass pumps at each of the four lift stations.

Long Term:

1. Continue to investigate the Inflow & Infiltration issues that may still exist within the District.
2. Continue to clean and CCTV the entire collection system for the inspection and recordation of the system with the closed circuit television truck. Complete a condition assessment of the system using the NASSCO pipe rating system for each line segment.
3. Continue with the pipeline rehabilitation and relining projects.
4. Rehabilitate and replace manholes as determined necessary.

ACTIONS COMPLETED IN 2014

1. Performed closed circuit video inspection of approximately 15.6 miles of collection system piping.
2. Cleaned approximately 64.5 miles of collection system piping.
3. Promoted and provided financial incentive for the rehabilitation/replacement of private sewer laterals. In 2014, sixteen property owners participated in this program and replaced/repared their deteriorated laterals. The District issued rebates for a total of \$32,000 to property owners for these repairs.
4. Identified and raised/rehabilitated 28 manholes and 1 cleanout in various locations throughout the District for a total cost \$32,665.
5. Performed 1 emergency sewer main point repair to the air valves on the force main for Lift Station 4 for a total of \$1,965. The District also had slip-lining spot repairs completed in 15 different locations for a total of \$19,250.
6. On October 14, 2013 District Board of Directors approved a contract in the amount of \$41,660 to Phoenix Civil Engineering for the Engineering Design, plans specifications and bid preparation for the 2014 Sewer Rehabilitation Project. The project includes the slip-lining and rehabilitation of 6 miles of sewer mainlines throughout the District.

7. On November 11, 2014 the District purchased a new Portable Push Camera to wirelessly interface with the CCTV truck in the amount of \$14,208.

2014 SANITARY SEWER OVERFLOW (SSO) REPORT SUMMARY

PRIVATE

1. 12/26/14 – 588 Freehaven Drive: Property line clean-out to a private sewer lateral overflowed resulting in a spill of approximately 25 gallons. The Collections Crew notified the property manager to stop using the water and immediately call a plumber. The collections crew then washed down and used a micro-septic disinfectant to clean the area. The property owner was notified to CCTV their sewer lateral and provide a video inspection to the District. Subsequently the private sewer lateral was required to be repaired and the owner has completed the work.

DISTRICT

1. 2/03/14 – Category 3: Manhole #748-7F – In front of the property known as 680 Buena Vista Avenue. It was identified that roots found in the manhole was the reason the manhole overflowed causing a sewer spill of approximately 40 gallons. The spill traveled from the manhole alongside the Buena Vista roadway ending 354 ft. down from the manhole. The collections crew used the Vac-Con Combination truck to vacuum up the sewage and debris and then used a micro-septic disinfectant to clean the area.
2. 8/16/14 – Category 3: At the intersection of S. Jameson Lane and Eucalyptus Lane in the public right-of-way behind the curb return outside of the paved roadway a vehicle struck the air relief valves for the force main to Lift Station 4 causing a sewer spill of approximately 580 gallons. The Collections crew immediately responded and did a temporary by-pass of the force main and then used the Vac-Con Combination truck to vacuum up the sewage and debris. A micro-septic disinfectant was used to clean the area. A contractor was called out to perform emergency repairs to the valves.

MONTECITO SANITARY DISTRICT

Mission, History and Future Goals

OUR MISSION

To provide the residents of Montecito with a community service to protect public health and to preserve the natural environment through collection, treatment and disposal of wastewater in the most cost effective way possible.

To meet all regulatory discharge requirements as directed by Local, State and Federal agencies.

OUR BACKGROUND

The Montecito Sanitary District (MSD) is an independent special district voted into existence in 1947 by the residents of Montecito. A few highlights of MSD's history include the following:

- 1947: The Montecito Sanitary District was voted into existence by the residents.
- 1947-1960: The community worked toward implementation of service by approving a bond issue, selecting a plant site, and establishing a District boundary.
- 1960: A \$900,000 bond issue was passed to build a 750,000 gallon per day extended aeration, secondary treatment plant, an ocean outfall and trunk sewer system.
- 1961-1969: Six assessment districts were formed to finance the installation of 70 miles of collection system pipelines.
- 1981: Voters approved a \$3.1 million revenue bond issue to incorporate new technology and expand the plant's capacity to 1.5 MGD.
- 1982-1999: During this time period a second activated sludge reactor basin was added to the treatment plant; two additional secondary clarifiers were constructed; the volume of the aerobic digester was increased; a dissolved air flotation thickener and a belt filter press were installed; a second effluent chlorine contact chamber was constructed along with a de-chlorination chamber; a 250 KW emergency generator was installed at the treatment plant. In the mid 1990's, sodium hypochlorite and sodium bisulfite liquids, replaced gaseous chlorine and sulfur dioxide for safety reasons.

MONTECITO SANITARY DISTRICT
Mission, History and Future Goals -- Continued

- 2000 - 2006: During this time period the District completed the following capital improvement projects: bulk chemical storage tanks were replaced with larger, double wall containment with earthquake restraints; six new disinfection chemical feed pumps for sodium hypochlorite and sodium bisulfite were installed, improving reliability and adding redundancy; a paperless data trend process recorder was installed; an aeration system optimization project was completed, the laboratory was upgraded; the influent pump station was replaced, increasing the station's pumping capacity from 3.5 MGD to 5.0 MGD; a SCADA control center and the construction of a new 3,600 square foot maintenance building.
- 2007 - 2008: The Montecito Board of Director's identified and approved "mission critical" capital improvement projects totaling approximately \$11 million. The District then issued Certificates of Participation (COP's) to fund the capital program. The following projects were completed in 2007 and 2008: a new SCADA server with expandability for future was put on line for the influent pump station control; the waste activated sludge pump was replaced; the aeration air header made of deteriorated ductile iron pipe was replaced with a new stainless steel pipe; a new 125 KW portable emergency generator that can be used to power a portion of the treatment plant or as a redundant back up at pump stations was purchased; the Posilipo Lift Station (Lift Station No. 4) was completely refurbished including the replacement of the existing 6" dual force mains with dual 8" lines; a new fully redundant pumping system (three new pumps) were installed along with an automatic switch over to generator power.
- 2009: The District completed the following capital improvement projects: the influent channel grinders were replaced with two new units increasing flow volume from 3.5 mgd to 6.0 mgd; the secondary clarifiers (3 & 4) were refurbished and the effluent channel was refurbished.
- 2010: Completed the refurbishment of two motor control centers (MCC) and replacement of another (MCC); installation of a new 450 KW emergency diesel powered generator providing 100 percent of the treatment plant and associated facilities power requirements during main power outages. The total cost of these treatment plant electrical upgrades was \$540,000. The new laboratory building design and site grading was completed in the fall of 2010.

MONTECITO SANITARY DISTRICT
Mission, History and Future Goals -- Continued

- 2011: The new laboratory building construction was completed in December 2011 and the District Board accepted the project as complete in January 2012. Also completed in 2011 were upgrades to the treatment plant SCADA monitoring system. Additional essential treatment plant equipment was added to the SCADA system. An after-hours alarm notification system was added to the SCADA system as the primary notification system with the existing auto dialer (ADA) becoming the back up. Three effluent disinfection chemical dosing pumps were replaced with new pumps.
- 2012: Refurbishment of all four Secondary Clarifiers; installation of two new sodium hypochlorite chemical feed pumps and one sodium bisulfite chemical feed pump; all three Influent Pumps were retrofitted with new high chrome impellers and volutes and the Influent Variable Frequency Drive motors were replaced with new energy efficient units.
- 2013: Capital projects completed included the remodel of the former lab into an Operations Control Center; the refurbishment of the Belt Filter Press System; the replacement of the sodium hypochlorite and sodium bisulfite analyzers and the replacement of a 3,000 gallon hypochlorite tank.
- 2014: The District submitted an application for laboratory accreditation with ELAP, under the State Water Resources Control Board's Division of Drinking Water, on November 14, 2014. We are currently awaiting a response.

On August 29, 2014 the District hired Chief Maintenance Mechanic, Perry Cabugos. The highly experienced Mr. Cabugos immediately took on and completed preventative maintenance on the Secondary Treatment Clarifiers No. 2 and No. 3; the Aeration Basin Blower No.1 and the Belt Press.

During the course of the year various plant improvements, electrical/instrumentation upgrades and equipment repair/replacement projects were completed for a total of approximately \$50,000.

- 2015: Current/Future Capital Improvement Projects include the following upgrades to the treatment plant:
 - Aeration Basins-Air Header Replacement
 - DAFT Rehabilitation/Replacement
 - Belt Press Electrical Controls Upgrade
 - Plant Pavement Repairs/Resurfacing