

NOVATO SANITARY DISTRICT

Meeting Date: September 17, 2012

The Wastewater Operations Committee of Novato Sanitary District will hold a meeting at 2:00 PM, Monday, September 17, 2012, at the District offices, 500 Davidson Street, Novato.

AGENDA

1. AGENDA APPROVAL:

2. PUBLIC COMMENT (PLEASE OBSERVE A THREE-MINUTE TIME LIMIT):

This item is to allow anyone present to comment on any subject not on the agenda, or to request consideration to place an item on a future agenda. Individuals will be limited to a three-minute presentation. No action will be taken by the Committee at this time as a result of any public comments made.

3. CONSIDER APPROVAL OF MINUTES OF THE AUGUST 20, 2012 MEETING

4. WASTEWATER TREATMENT FACILITIES OPERATIONS AND MAINTENANCE REPORT FOR AUGUST 2012:

- a. Treatment Plant Performance Report.
- b. Maintenance Report.
- c. Safety and training.
- d. Odor control and landscaping progress report.

5. COLLECTION SYSTEM OPERATION AND MAINTENANCE REPORT FOR AUGUST 2012:

- a. Collection System Maintenance.
- b. Pump Station Maintenance.
- c. Collection System Performance.

6. RECLAMATION FACILITY REPORT FOR AUGUST 2012

- a. Irrigation system.
- b. Ranching status.

7. ADJOURNMENT:

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact the District at (415) 892-1694 at least 24 hours prior to the meeting. Notification prior to the meeting will enable the District to make reasonable accommodation to help ensure accessibility to this meeting.

Materials that are public records and that relate to an open session agenda item will be made available for public inspection at the District office, 500 Davidson Street, Novato, during normal business hours.

August 20, 2012

A regular meeting of the Wastewater Operations Committee of Novato Sanitary District was held at 2:00 p.m., Monday, August 20, 2012, at the District Office, 500 Davidson Street, Novato.

MEMBERS PRESENT: NSD Board Members William Long and Jerry Peters.

STAFF PRESENT: Beverly James, Manager-Engineer
Sandeep Karkal, Deputy Manager-Engineer
Steve Krautheim, Field Services Superintendent
Tim O'Connor, Collections System Superintendent
Julie Swoboda, Administrative Secretary
John Bailey, Plant Manager, Veolia Water

ALSO PRESENT: John O'Hare, Veolia Water
Bob Guinan, Novato resident

AGENDA APPROVAL: The agenda was approved as presented.

PUBLIC COMMENT: None.

APPROVAL OF MINUTES: The minutes of the July 16, 2012 Wastewater Operations Committee meeting were accepted as written.

WASTEWATER TREATMENT FACILITIES OPERATIONS AND MAINTENANCE REPORT FOR JULY 2012:

- Treatment Plant Performance Report, Maintenance Report and Safety & Training: John Bailey, Plant Manager, Veolia Water, reviewed the monthly operations report for July 2012 and discussed the treatment plant performance. He stated that there were no violations or excursions during the month.

Mr. Bailey reported on the key events at the Novato Treatment Facility and the Ignacio Transfer Pump Station. He reported that Flygt performed their annual 21 point inspections on the Mixers. He reported on routine maintenance performed at the facility and noted that the aeration basin #1 was drained to repair a lift cable. Mr. Bailey also reported that the return decant line was flushed.

Mr. Bailey reported that Veolia continues to take Jerome Meter (H₂S) readings in the Lea Drive neighborhood and within the treatment plant.

Mr. Bailey discussed safety and training for the month of July and noted that Veolia Water has been operating the treatment facility accident free for 790 days/36,024 hours. He outlined the safety and training events that Veolia employees participated in for the month of July. Mr. Bailey discussed the plant flow charts and the energy usage for the past 12 months. He reviewed the Process Control Management Plan (PCMP) data for the month of July and discussed the odor complaint log.

- Odor control, noise, and landscaping progress report: The Manager stated that box-planted redwood trees were placed at the back of the facility to provide visual screening to the Lea Drive neighborhood. She discussed the next phase of landscaping.

Bob Guinan, Lea Drive neighborhood resident, discussed alternate solutions for the odor problem and suggested making/increasing an earthen berm at the back of the treatment facility. He suggested mature plantings could then be placed on the berm as a visual/odor screen.

The Committee Members requested the Manager provide them with a copy of the District's odor/visual screening landscaping plan for the Lea Drive Neighborhood.

COLLECTION SYSTEM OPERATION AND MAINTENANCE REPORT FOR JULY 2012:

Tim O'Connor, Collection System Superintendent, discussed the Collections System Monthly Report for July 2012. He stated that the Collections System spent about 63% of its time on sewer maintenance and 37% on pump station maintenance.

Mr. O'Connor reported that there were two sanitary sewer overflows in the month of July. He stated that 3,385 gallons of sewage were released but that the District recovered 100%. He noted that the larger overflow, 3,375 gallons, was a result of roots and grease in the main line.

Mr. O'Connor reported that the Collections System crew cleaned a total of 53,181 feet of sewer pipeline in July and completed 291 maintenance work orders. He discussed pump station maintenance and noted that approximately 227 lift station inspections were conducted during July.

Members Long and Peters stated they would like to travel with the Collections Department to the various lift/pump stations so they could become more familiar with the collection process. The Manager stated she would coordinate their request and notify Members Long and Peters of the appointment.

RECLAMATION FACILITY REPORT FOR JULY 2012:

Steve Krauthem, Field Services Superintendent, stated that hay cutting operations were completed and that cattle have been moved onto all Sites. He stated that staff continued testing the control system in each parcel of the irrigation fields and have made repairs as needed. Mr. Krauthem reported that 134.39 million gallons of recycled water was used for irrigation during the month of July.

ADJOURNMENT: There being no further business to come before the Committee. The meeting adjourned at 3:16 p.m.

Respectfully submitted,

Beverly B. James
Secretary

Julie Swoboda, Recording



September 13, 2012

Ms. Beverly James
Manager - Engineer
Novato Sanitary District
500 Davidson Street
Novato, CA 94545

Subject: Veolia Water Operations Report – August 2012

Dear Ms. James:

We are pleased to provide this updated activity report for August 2012.

As always, please give me a call at 707-208-4491 should you have any questions.

Regards,

A handwritten signature in blue ink that reads "John Bailey".

John Bailey
Project Manager

**MONTHLY OPERATIONS REPORT
August 2012**

Prepared for

**NOVATO SANITARY DISTRICT (NSD)
WASTEWATER TREATMENT PLANT
500 Davidson Street
Novato, CA 94545**

Prepared by

Veolia Water West Operating Services, Inc. (VWWOS)

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TREATMENT PLANT PERFORMANCE SUMMARY: August 2012:

Reclamation

Parameter	Monthly Performance			
	Value		Limit	
	Ave	Max	#1	#2
Flow, MGD (monthly ave/max)	4.13	4.70	N/A	N/A
Influent BOD ₅ , lb/day (month ave/max)	8,595	12,905	N/A	N/A
Influent TSS, lb/day (monthly ave/max)	11,559	15,668	N/A	N/A
Effluent BOD ₅ , mg/L (monthly ave/weekly max)	7	13	40	N/A
Effluent TSS, mg/L (monthly ave/weekly max)	<5	5	N/A	N/A
Effluent BOD ₅ - % Removal, Minimum	97	N/A	N/A	N/A
Effluent TSS - % Removal, Minimum	98	N/A	N/A	N/A
pH, su (min / max)	7.0	7.1	6.0	9.0
Total Coliform, mpn (5 Sample median / max)	30	900	240	10,000
Total Permit Exceedances (NPDES)	0			

NA – Not Applicable

Discussion of Violations / Excursions: NONE

OPERATIONS & MAINTENANCE STATUS / REVIEW:

Key events for the period:

Novato

- Routine rounds, readings and maintenance
- Influent pumps to Flygt for warranty repairs
- Meeting with Flygt/Shape regarding warranty repairs
- Drained Aeration Basin #2
- Aeration Basin #1 back in service
- Operations truck – new starter
- Aeration Basin #2 back in service
- Drained Aeration Basin #3
- Aeration Basin #2 back in service
- Installed Aeration Basin #3 Mixed Liquor Recycle Pump repaired by Flygt
- Repaired block heater on generator #2 (old)
- Replaced coupler on Digester #1 Sludge Heating Pump #1
- Re-Installed Mixer 4B after repair by Flygt
- Collicutt Energy performed annual inspection/load bank on UV Generator and Admin. Generator

Ignacio Transfer Pump Station

- Routine rounds, readings, and maintenance
- Conveyance Pump re-installed after repair by Flygt

Recycled Water Plant

- Assisted Contractor with 5 day Functional Acceptance Test (FAT)
- Assisted Contractor with Chlorine Contact Tank test
- Submitted Startup Operations Plan to Regional Board for approval (received approval)

CONSTRUCTION UPDATE:

- Attended weekly construction meetings.

ADMINISTRATION:

- Electronic Self Monitoring Report for July 2012, submitted on 8/17/12

SAFETY AND TRAINING:

- Monthly plant safety inspections for Novato WWTF completed on 8/22/12
- Five Minute Tailgate training is held daily with the O&M staff.
- No safety incidents for the month of August 2012.
- Accident Free: 6/1/10 – 8/31/12: 821 days / 36,954 hours.

Monthly Safety Training: Slips, Trips and Falls 8/31/12
Fall Protection 8/31/12

- Chesterton Mechanical Seal Training at Richmond Facility 8/10/12
- RAS/WAS Wet Well Flushing SOP Review 8/17/12
- Recycled Water Facility SCADA Training 8/14/12

ODORS:

- Jerome Meter (H2S) readings performed in neighborhood and within treatment plant.

MISCELLANEOUS

- Process Control Management Plan (PCMP) meetings held regularly
- Attended BAQWA toxicity work group meeting on 8/23/12

Veolia Support Staff On/Off Site (Various Times)

John O'Hare	Technical Support
Chris McAuliffe	District Manager
John Herron	Northern California Area Manager
Bryce Behnke	Technical Support via conference call & web exchange

WORK ORDER STATISTICS

August 1, 2012 - August 31, 2012

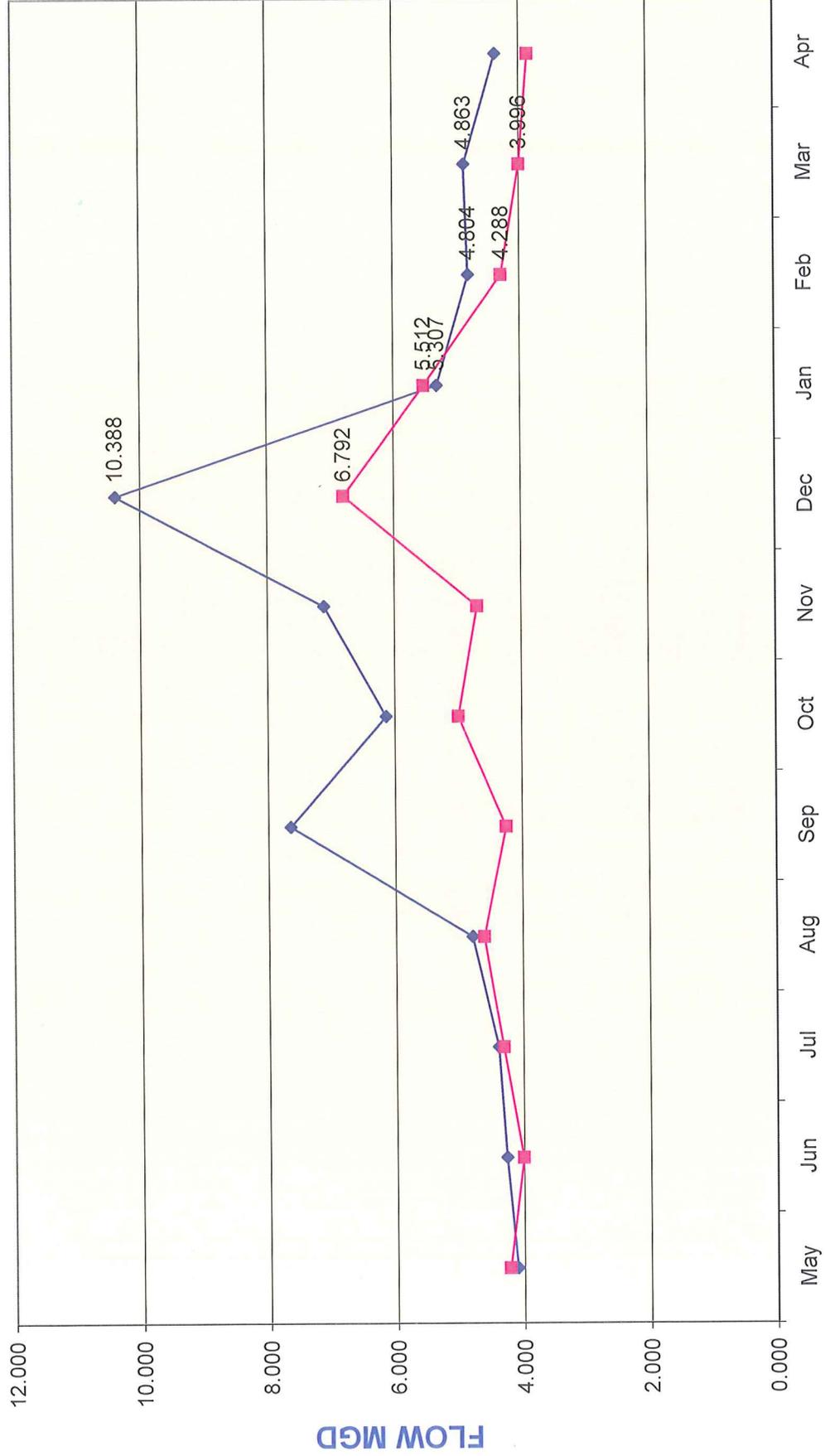
	Open Work Orders Due Prior to 8/1/12	Open Work Orders 8/1/12 - 8/31/12	Total Open Work Orders
Preventative	8	330	338
Corrective	5	15	20
Total	13	345	358

	Closed Work Orders 8/1/12 - 8/31/12
Preventative	330
Corrective	20
Total	350

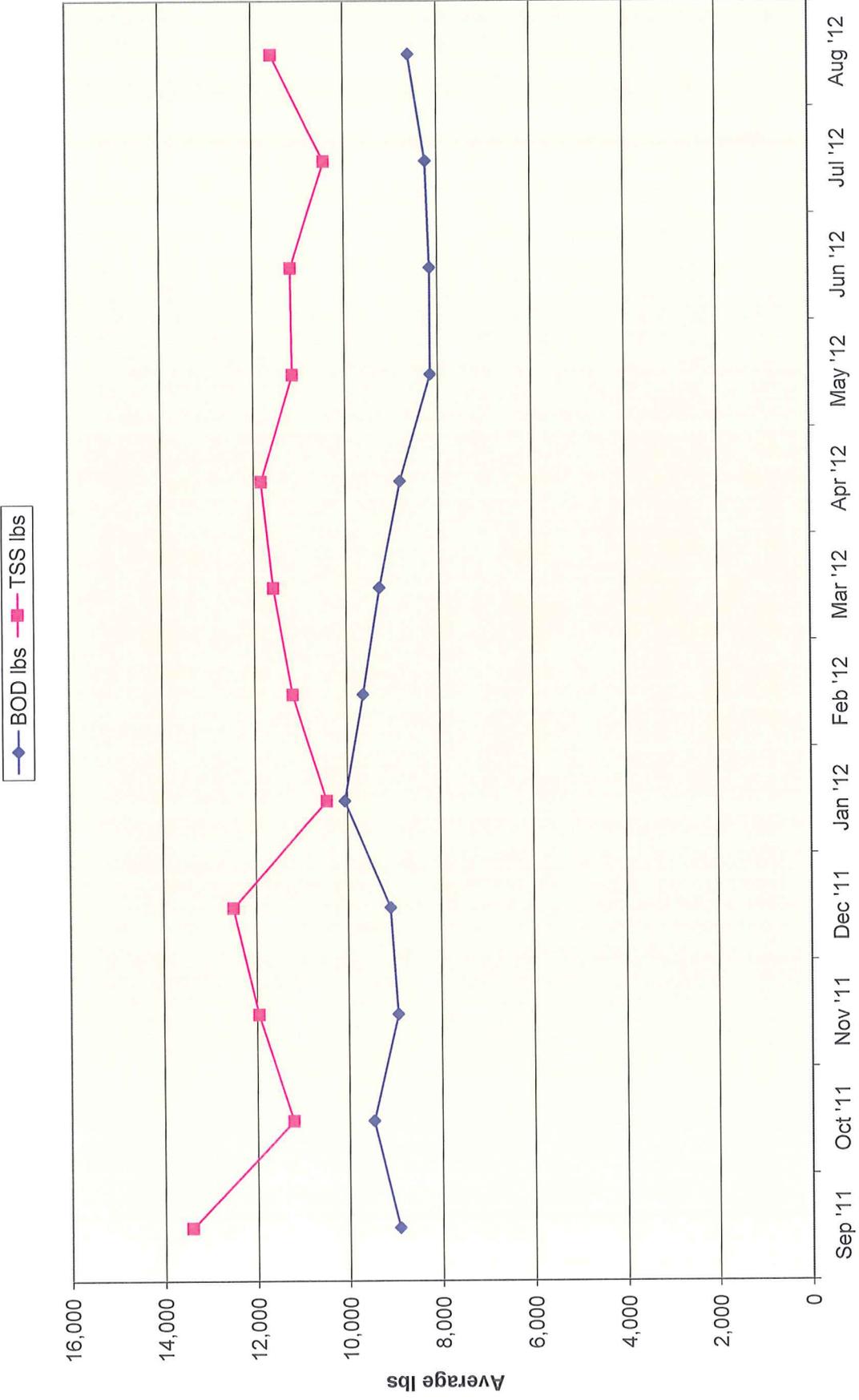
Total Outstanding Work Orders as of September 1, 2012	8
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FLOW COMPARISON

—◆— 2011 —■— 2012

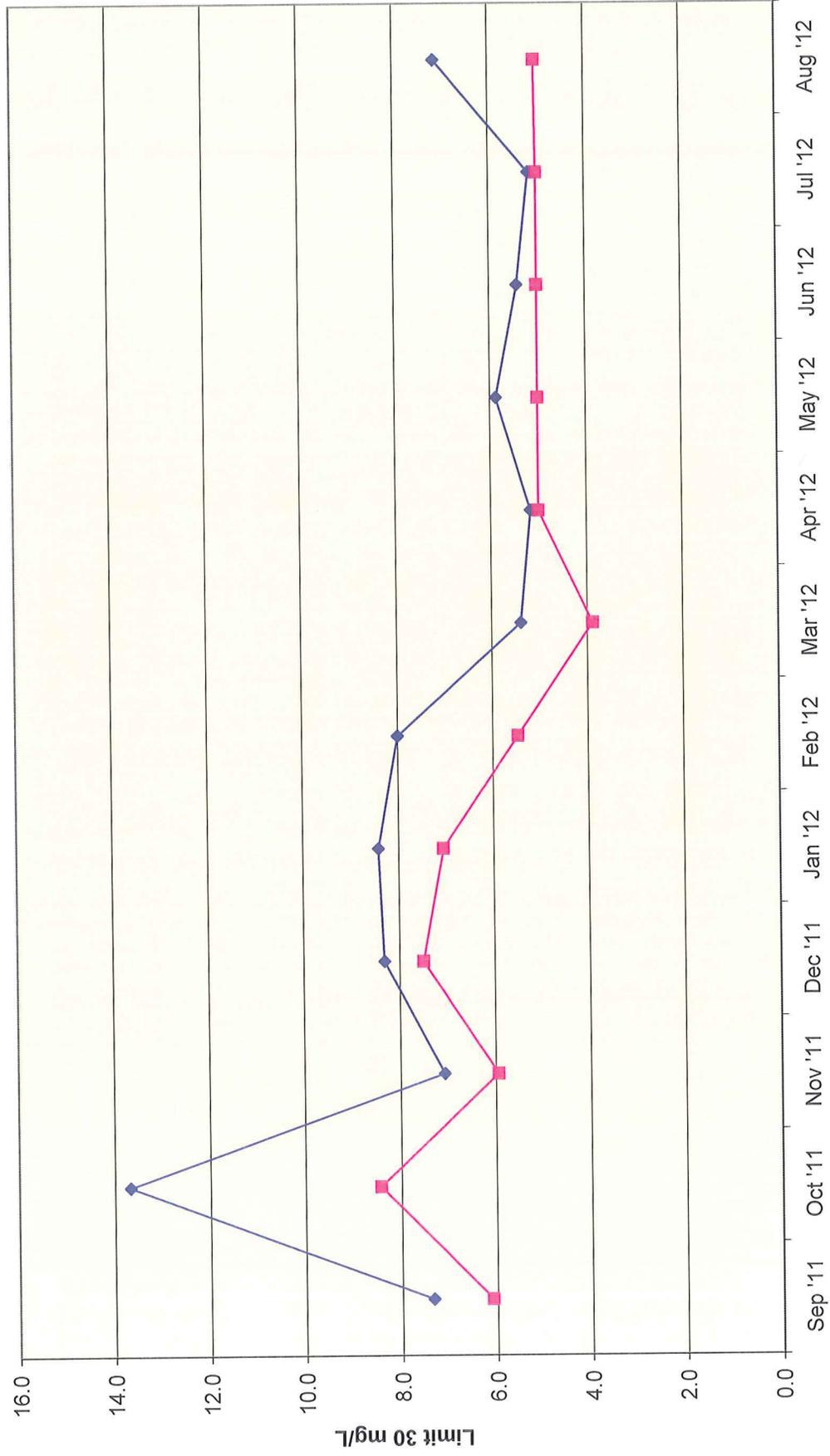


Influent Load BOD / TSS lbs



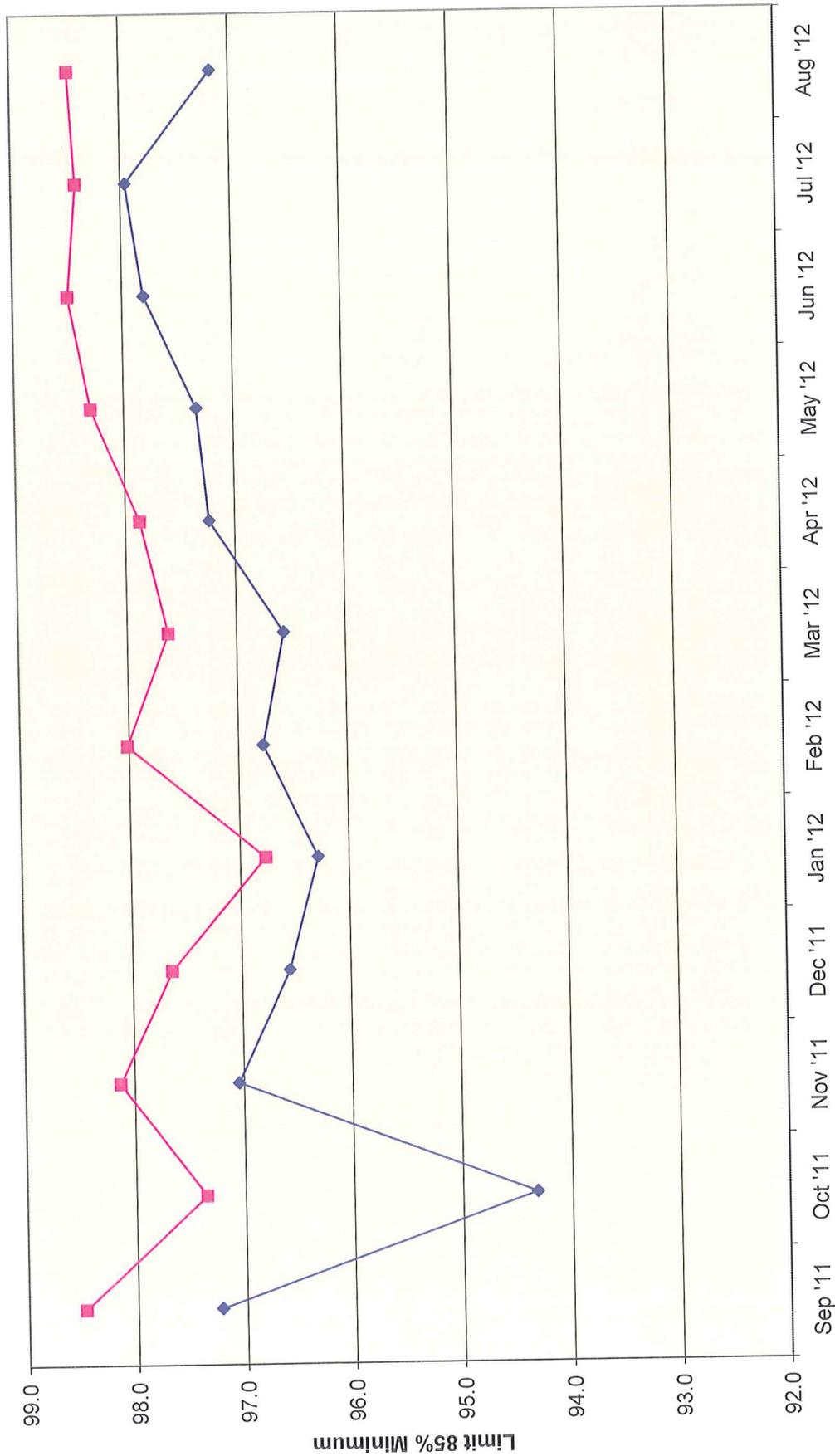
Effluent BOD / TSS Concentration

NPDES LIMITS WET SEASON
 BOD & TSS - 30 mg/L Monthly Ave, 45 mg/L Weekly Ave
NPDES LIMITS DRY SEASON
 BOD - 15 mg/L Monthly Ave, 30 mg/L Weekly Ave
 TSS - 10 mg/L Monthly Ave, 20 mg/L Weekly Ave
 WDR (Waste Discharge Requirements) RECLAMATION
 BOD - 40 mg/L

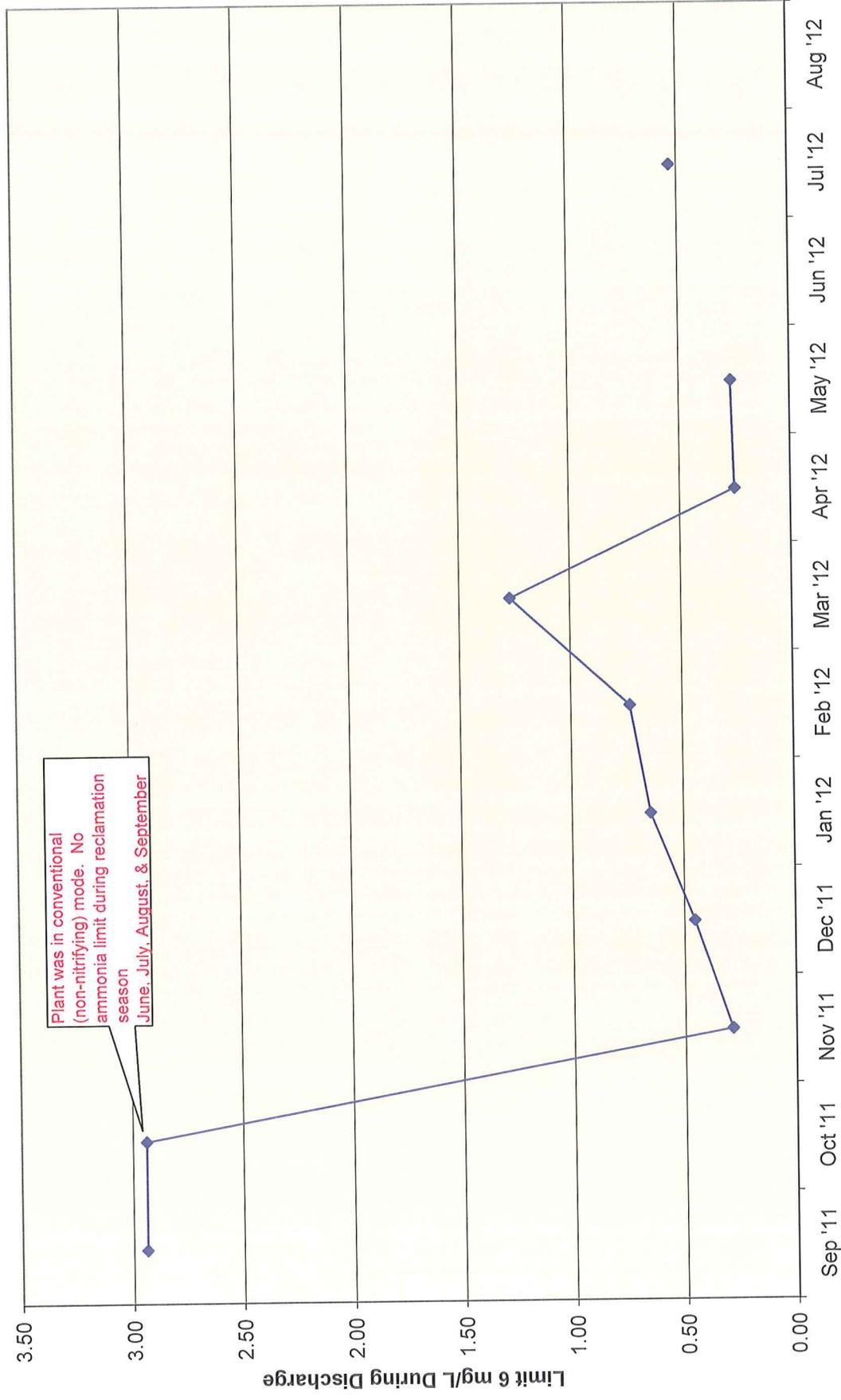


BOD / TSS Percent Removal

—◆— BOD —■— TSS



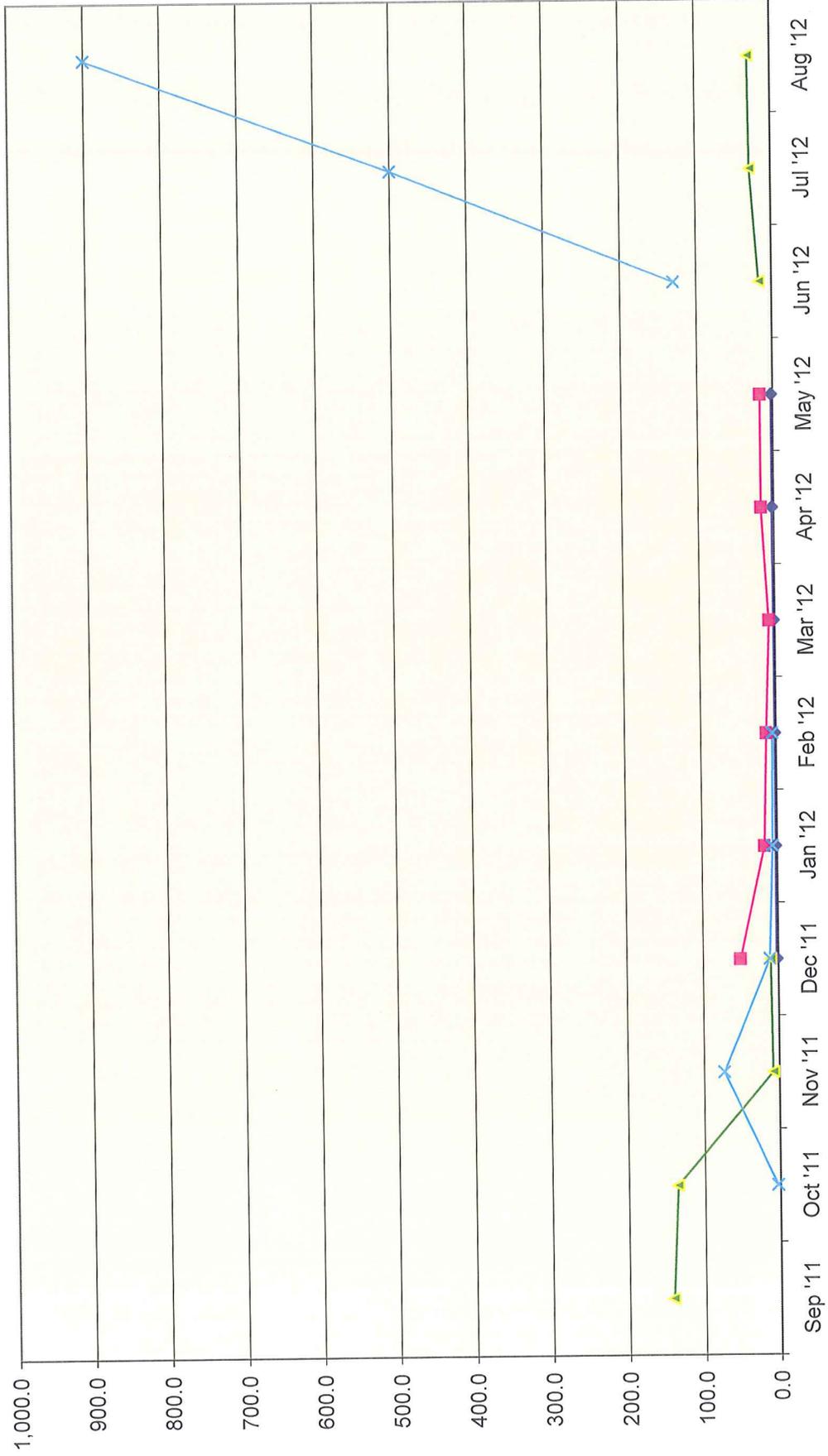
Effluent Ammonia



Disinfection

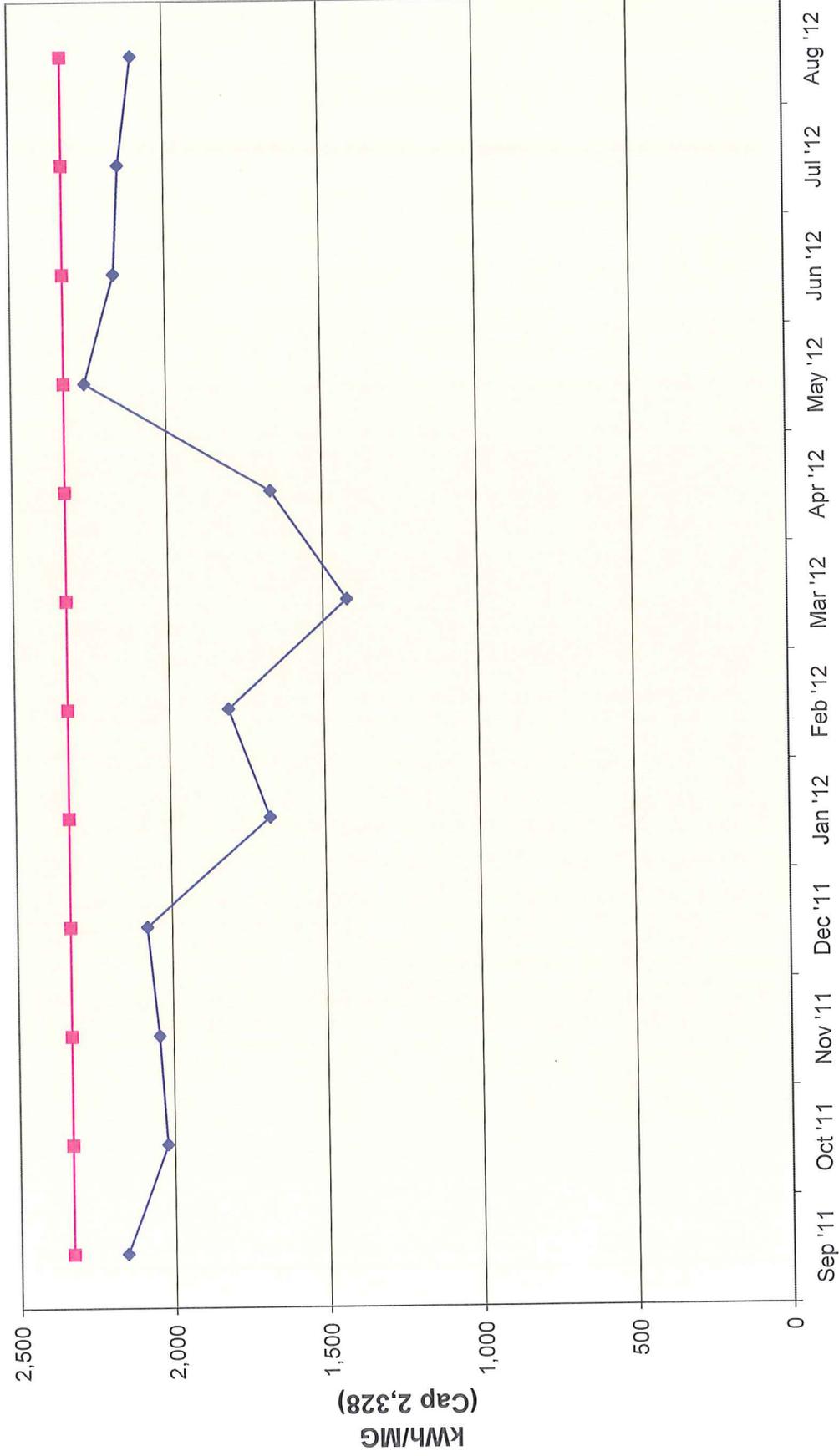
LIMITS - NPDES
 Entero 30 day geo mean 35 mpn /100ml
 Fecal 140 mpn monthly median
 Fecal 430 mpn 90th percentile 30 day
LIMITS - RECLAMATION
 Total Coliform 240 mpn 5 sample median
 Total Coliform maximum 10,000 mpn/100 ml

◆ Entero —■ Fecal —▲ Median 5 —× Maximum

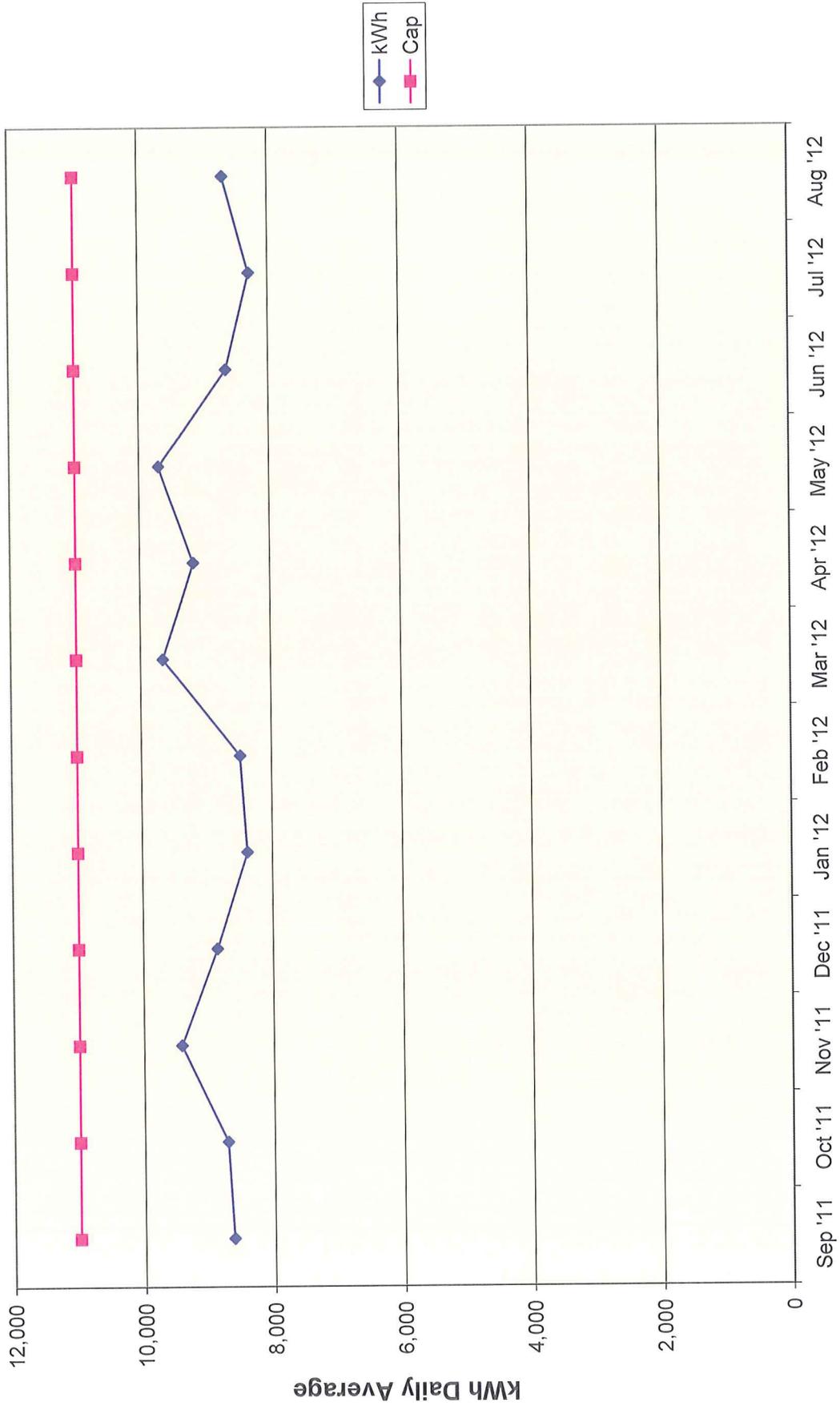


Energy kWh/MG

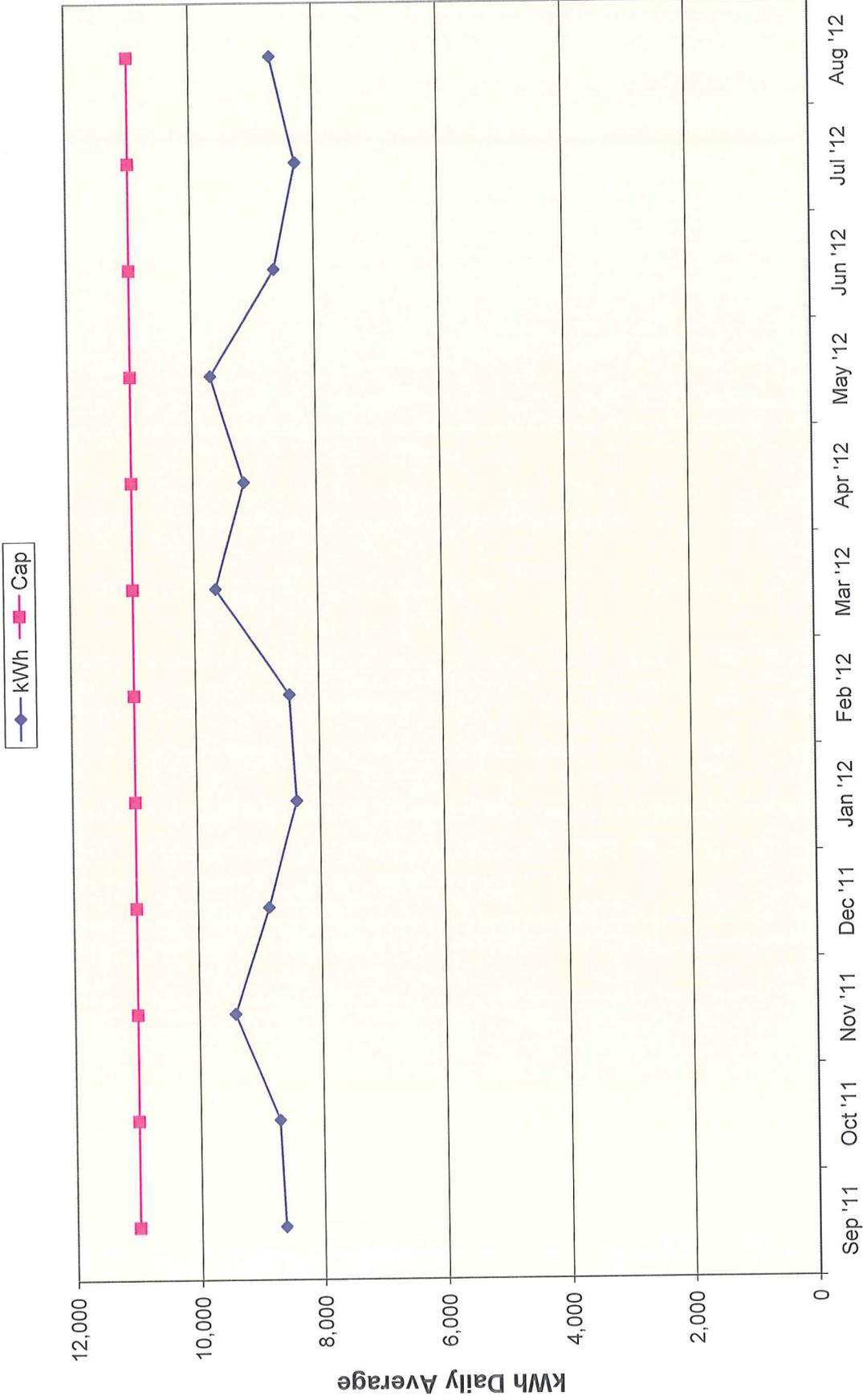
—◆— kWh/MG —■— Cap



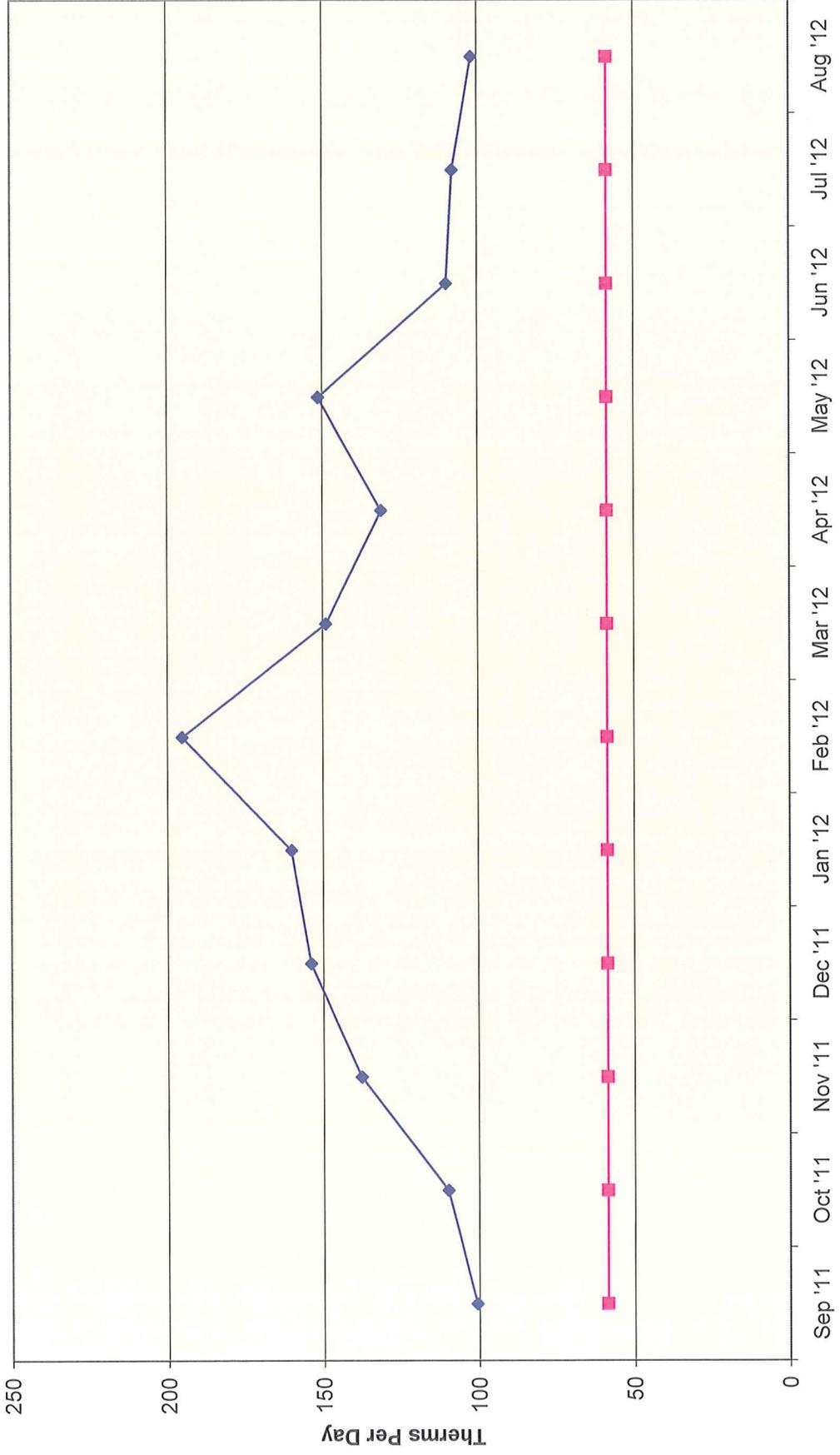
Energy kWh



Energy kWh



Natural Gas Use



TOTAL COLIFORM (RECLAMATION)

Aug-12

(1) 5 Sample Median not to exceed 240 mpn/100 mL

(2) Maximum not to exceed 10,000

Note (2):

Maximum must be confirmed by a follow-up sample taken within 24 hours

Date	Value	Median
July 20, 2012	8	
July 23, 2012	13	
July 25, 2012	4	
July 27, 2012	4	
August 1, 2012	4	4
August 2, 2012	50	4
August 3, 2012	13	4
August 4, 2012		
August 5, 2012		
August 6, 2012	11	11
August 7, 2012		
August 8, 2012	30	13
August 9, 2012		
August 10, 2012	900	30
August 11, 2012		
August 12, 2012	30	30
August 13, 2012		
August 14, 2012	14	30
August 15, 2012		
August 16, 2012	30	30
August 17, 2012		
August 18, 2012		
August 19, 2012		
August 20, 2012	50	30
August 21, 2012		
August 22, 2012	13	30
August 23, 2012		
August 24, 2012	110	30
August 25, 2012		
August 26, 2012		
August 27, 2012	13	30
August 28, 2012		
August 29, 2012	30	30
August 30, 2012		
August 31, 2012	50	30
Maximum	900	30

Novato Sanitary District
Conventional Pollutants Report



August, 2012

Date	INFLUENT - A001			Effluent - E002							
	Flow	pH	Ammonia	Coliform / Bacteria			pH	Ammonia	Temp		
	Total			Fecal	Entero	Total					
	MGD	su	mg/L	MPN/100 mL			su	mg/L	Deg C		
08/01/12	4.14	7.4				4	7.1		23.7		
08/02/12	4.07	7.2				50	7.0		23.8		
08/03/12	3.87	7.2				13	7.0		23.8		
08/04/12	3.88										
08/05/12	3.88										
08/06/12	4.00	7.3				11	7.1		23.7		
08/07/12	3.94	6.5					7.0		24.4		
08/08/12	3.96	7.2				30	7.0		23.7		
08/09/12	3.84						7.0		24.0		
08/10/12	4.02					900	7.0		24.0		
08/11/12	3.58										
08/12/12	3.76					30					
08/13/12	3.83	7.2					7.1		24.2		
08/14/12	4.04					14	7.1		24.1		
08/15/12	4.09	7.1					7.1		24.0		
08/16/12	4.10	7.2				30	7.1		23.4		
08/17/12	3.93	7.3					7.1		23.6		
08/18/12	4.47										
08/19/12	3.99										
08/20/12	4.16	7.5				50	7.1		23.3		
08/21/12	4.70	7.3					7.1		23.6		
08/22/12	4.39	7.2				13	7.1		23.1		
08/23/12	4.48	7.2					7.1		23.6		
08/24/12	4.42	7.0				110	7.0		23.6		
08/25/12	4.20										
08/26/12	4.54										
08/27/12	4.61	7.3				13	7.1		23.6		
08/28/12	4.52	7.1					7.1		24.1		
08/29/12	4.03					30	7.0		24.1		
08/30/12	4.35	7.4					7.0		24.0		
08/31/12	4.37	7.3				50	7.0		23.2		
Monthly											
Minimum	3.58	6.5				4	7.0		23.1		
Maximum	4.70	7.5				900	7.1		24.4		
Total	128.16										
Average	4.13	7.2					7.1		23.8		

Novato Sanitary District
BOD/TSS Report



August, 2012

Date	Flow MGD	Influent				Effluent				BOD % Removal PERCENT	TSS % Removal PERCENT
		BOD		TSS		BOD		TSS			
		mg/l	lb/d	mg/l	lb/d	mg/l	lb/d	mg/l	lb/d		
08/01/12	4.14	228	7,872	346	11,947	8	276	<5	<173	96.5	98.6
08/02/12	4.07	204	6,925	289	9,810	5	170	<5	<170	97.5	98.3
08/03/12	3.87	232	7,488	297	9,586	10	323	<5	<161	95.7	98.3
08/04/12	3.88										
08/05/12	3.88										
08/06/12	4.00	224	7,473	327	10,909	7	234	5	180	96.9	98.3
08/07/12	3.94										
08/08/12	3.96	292	9,644	364	12,022	<5	<165	<5	<165	98.3	98.6
08/09/12	3.84										
08/10/12	4.02	234	7,845	400	13,411	6	201	<5	<168	97.4	98.8
08/11/12	3.58										
08/12/12	3.76	289	9,063	372	11,665	<5	<157	<5	<157	98.3	98.7
08/13/12	3.83										
08/14/12	4.04	383	12,905	465	15,668	<5	<168	<5	<168	98.7	98.9
08/15/12	4.09										
08/16/12	4.10	219	7,488	295	10,087	6	205	<5	<171	97.3	98.3
08/17/12	3.93										
08/18/12	4.47										
08/19/12	3.99										
08/20/12	4.16	494		337	11,692	6		<5	<173	98.8	98.5
08/21/12	4.70										
08/22/12	4.39	209	7,652	367	13,437	6	220	<5	<183	97.1	98.6
08/23/12	4.48										
08/24/12	4.42	228	8,405	231	8,515	7	258	<5	<184	96.9	97.8
08/25/12	4.20										
08/26/12	4.54										
08/27/12	4.61	270	10,381	292	11,227	13	500	<5	<192	95.2	98.3
08/28/12	4.52										
08/29/12	4.03	233		343	11,528	<5		5	168	97.9	98.5
08/30/12	4.35										
08/31/12	4.37	264		326	11,881	13		<5	<182	95.1	98.5
Weekly Averages											
08/04/12	Week 1	221	3,369	311	4,739	8	116	5	76		
08/11/12	Week 2	250	3,774	364	5,495	6	91	5	78		
08/18/12	Week 3	297	4,454	377	5,658	5	80	5	75		
08/25/12	Week 4	310	3,642	312	5,087	6	108	5	82		
	Week 5										
Monthly											
Minimum	3.58	204	6,925	231	8,515	<5	<71	<5	<71	95	98
Maximum	4.70	494	12,905	465	15,668	13	227	5	<87	99	99
Total	128.16										
Average	4.13	267	8,595	337	11,559	<7	<109	<5	<79	97	98

**Novato Sanitary District
Wastewater Operations Committee meeting
Collection System Operations Report
August 2012**

General:

For the month of August 2012, the Collection System Department spent about 67% of its time on sewer maintenance, and 33% of its time on pump station maintenance.

After accounting for all leaves for the month of August, the Collection System had the equivalent of: (a) 3.5 full time field workers for on Sewer Maintenance, and (b) 1.8 full time field workers on Pump Station Maintenance.

Sewer Maintenance:

A total of 79,740 feet of sewer pipelines were cleaned for the month. Staff completed 467 maintenance work orders generated by the ICOMMM3 CMMS system, with no outstanding work orders. The footage cleaned per hour, line cleaned/month, and outstanding work orders are within established parameters for the department. Graphs showing the length of line cleaned/month, footage cleaned/hour worked, along with the overflows/month are attached.

Pump Station Maintenance:

The Collection System Department conducted 226 lift station inspections for the month of August 2012, with 97 of the inspection visits generated through the JobCal Plus CMMS system. The breakdown of these inspections is as follows: 22 Flygt submersible pump stations, 1 time per month, 9 Gorman/Rupp dry well/wet well stations, 1 entry per month, and 4 main stations that are visited daily. There were no maintenance issues of note for the month of August 2012.

Note: The JobCal Plus program is not only used for scheduling and tracking pump station related maintenance work orders, it is also used for ladder inspections, reclamation maintenance work orders, SCADA backup scheduling, and vehicle maintenance scheduling.

Sanitary Sewer Overflows (SSOs):

For the month of August 2012, there was one (1) SSO, with full (100%) recovery of the overflow amount for the event:

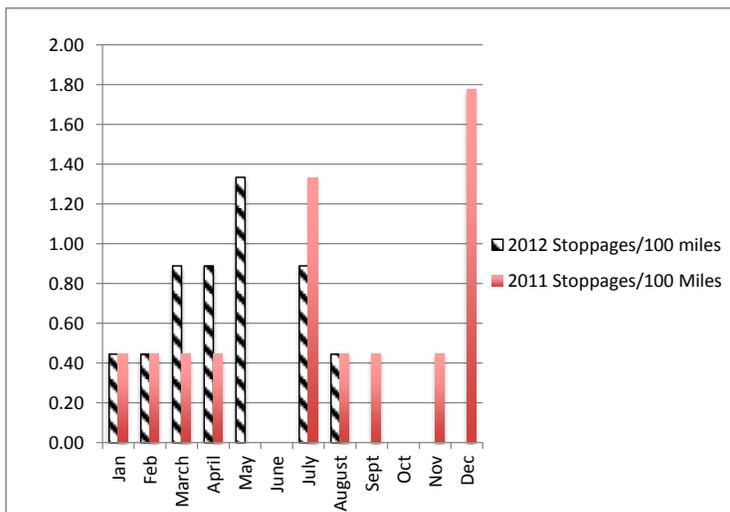
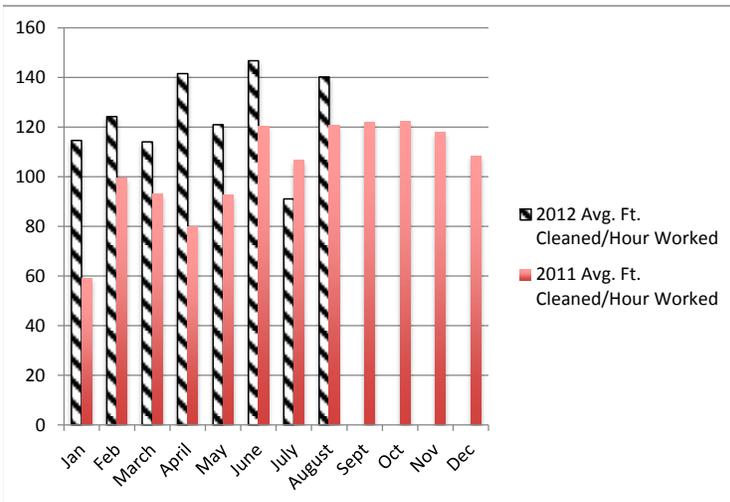
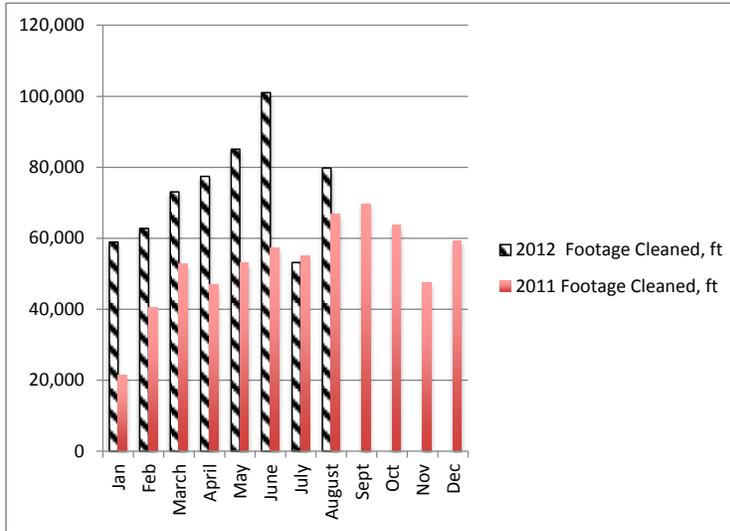
No.	Date	Location	Amount, gal	Cause
1	8/4/2012	0 San Andreas Dr	5	Roots/Wipes

Novato Sanitary District
Collection System Monthly Report For 2012

	Jan	Feb	March	April	May	June	July	August	Sept	Oct	Nov	Dec	Total Year to Date	Average Year to Date
Employee Hours Worked	547	549	689	575	709	723	611	612	0	0	0	0	5,015	
Number of Employees	3.2	3.2	4.0	3.3	4.1	4.2	3.5	3.5	0.0	0.0	0.0	0.0		
Regular Time Worked on Coll. Sys., hrs	514	505	640	547	703	688	584	569					4,749	
Regular Time Worked on Other, hrs ⁽¹⁾	69	148	174	189	153	232	341	336					1,641	
Vacation/Sick Leave/Holiday, hrs	221	357	292	365	371	77	194	257					2,134	
Overtime Worked on Coll. Sys., hrs	33	44	49	29	6	35	27	44					266	
Overtime Worked on Other, hrs ⁽¹⁾	1	0	3	13	1	7	1	10					35	
After Hours Callouts, #	1	2	0	0	0	1	0	1					5	
Service calls, normal hours, #	7	3	8	4	6	6	8	3					45	
Average S.C. response time, mins	29	30	23	13	14	14	18	20					161	20
Productivity														
Rodder Work Orders Generated, ft	16	18	3	54	92	75	56	13					327	
Rodder 3203 Ft. Cleaned	1,626	1,064	708	10,369	12,117	12,886	8,995	3,071					50,836	6,355
Flusher Work Orders Generated	275	286	299	344	428	452	235	454					2,773	
Truck 3205V Ft. Cleaned	7,667	23,744	0	2,364	2,125	0	6,892	24,699					67,491	8,436
Truck 3206V Ft. Cleaned	49,636	37,928	59,307	64,640	70,815	88,100	37,294	51,970					459,690	57,461
Camera Ft. Videoed	5,274	1,031	13,000	1,565	8,545	17,237	23,790	15,534					85,976	10,747
Work Orders Completed	291	304	302	398	520	527	291	467	NA	NA	NA	NA	3,100	388
Work Orders backlog	14	42	67	41	27	28	16	0					235	29
Total Footage Cleaned	58,929	62,736	73,015	77,373	85,057	100,986	53,181	79,740	0	0	0	0	591,017	49,251
Stoppages														
Minor	0	1	2	2	3	0	1	1					10	
Major	1	0	0	0	0	0	1	0					2	
Overflow Gallons	75	26	398	316	68	0	3,385	5					4,273	
Volume Recovered	0	26	108	93	63	0	3,385	5					3,680	
Percent Recovered	0%	100%	27%	29%	93%	NA	100%	100%	NA	NA	NA	NA	86%	
Benchmarks														
Average Ft. Cleaned/Hour Worked	115	124	114	142	121	147	91	140	NA	NA	NA	NA	NA	124
Total Stoppages/100 Miles	0.4	0.4	0.9	0.9	1.3	0.0	0.9	0.4	0.0	0.0	0.0	0.0	5.3	NA
Average spill response time (mins)	8	9	20	20	28	0	14	60	NA	NA	NA	NA	NA	20
Callouts/100 Miles	0.4	0.9	0.0	0.0	0.0	0.4	0.0	0	NA	NA	NA	NA	2.2	0.2
Overtime hours/100 Miles	15	20	22	13	3	16	12	1	NA	NA	NA	NA	118	12
Overflow Gallons/100 Miles	33	12	177	140	30	0	1504	2	0	0	0	0	1899	

⁽¹⁾This category includes time spent on: Data input, Training, Service Calls, Overflow Response, as well as any other activity that does not directly relate to main line cleaning or CCTV work.

Collection System 2011-12 Graphs



Novato Sanitary District
Pump Station Monthly Report For 2012

	Jan	Feb	March	April	May	June	July	August	Sept	Oct	Nov	Dec	Total Year to Date	Average Year to Date
Employee Hours Worked	334	263	336	276	401	331	352	307	0	0	0	0	2,600	
Number of Employees	1.9	1.5	1.9	1.6	2.3	1.9	2.0	1.8	0.0	0.0	0.0	0.0		1.2
Regular Time Worked on Pump Sta	254	236	280	246	281	277	294	283					2,151	
Overtime Worked on Pump Sta	80	27	56	30	120	54	58	25					449	
After Hours Callouts	4	2	6	2	3	4	4	4					29	
Average Callout response time (mins)	23	25	38	27	34	22	24	23					216	27
Work Orders														
Number generated in month	114	154	112	105	119	119	130	123	0	0	0	0	976	
Number closed in month	87	73	88	80	92	93	103	97						
Backlog	27	81	24	25	27	26	27	26						

NOVATO SANITARY DISTRICT
Wastewater Operations Committee Meeting
Reclamation Facilities Report
August 2012

Summary:

The rancher worked on sprinkler repairs this month. There were no significant changes in the irrigated parcels and irrigation times have been shortened to maintain a balanced pond level. The motor for Irrigation Pump No. 2 failed last month and due to the high replacement cost staff has requested quotes for repair of the motor. 95.40 MG of recycled water was irrigated during the month of August. Pond depth at the end of the month averaged 4.1 feet. The Dedicated Land Disposal (DLD) site was prepared for sludge application and sludge was pumped out of Sludge Lagoon No. 1 into the disposal area.

Ranch Operations:

The rancher began and continues to repair sprinklers broken by hay removal operations and cattle.

Irrigation Systems:

Site 2: As previously reported, valves and actuators in Parcel 6 have failed and need to be replaced. Refurbished valves and actuators have been received and staff will schedule the replacement work when corral fencing is received to be installed to protect the area from cattle when the existing concrete boxes are removed to replace the existing actuators. This is also the case for Zone 1 in Parcel 7. Zone 2 in Parcel 8 is also malfunctioning and staff cannot find the cause. A new control panel will be installed and rewired to see if that solves the problem when they arrive. Irrigation times in all Parcels have been reduced to balance plant flow into the Storage Ponds with irrigation flow to the Parcels to maintain a balanced pond level.

Site 3: All zones in all Parcels are functioning normally and there is nothing to report. Irrigation times in all Parcels have been reduced to balance plant flow into the storage ponds with irrigation flow to the Parcels to maintain a balanced pond level.

Site 7: All zones in all Parcels are functioning normally and there is nothing to report. Zone 3 in Parcel 7 and Zone 3 in Parcel 8 were left off as these two Zones are in an area that gets too wet. Irrigation times in all Parcels have been reduced to balance plant flow into the storage ponds with irrigation flow to the Parcels to maintain a balanced pond level.

Irrigation Pump Station:

The 400 Hp motor for Pump 2 failed in July and staff has received quotes for replacement. Due to the high replacement cost staff is requesting multiple quotes for repair of the motor.

95.40 MG of recycled water (3.08 MG per day average) was irrigated during the month of August. Pond depth at the end of the month averaged 4.1 feet between the two storage ponds.

NOVATO SANITARY DISTRICT
Wastewater Operations Committee Meeting
Reclamation Facilities Report
August 2012

Sludge Handling & Disposal:

The Dedicated Land Disposal (DLD) site was chiseled to allow the underlying sludge to dry. After drying, the DLD was then re-contoured with a mud cat and prepared to accept sludge from the lagoons. The contractor moved in his equipment and emptied Sludge Lagoon No. 1. Approximately 750,000 gallons of sludge was pumped out of Lagoon No. 1.