



**BEAR VALLEY
WATER DISTRICT**
P.O. Box 5027
Bear Valley, CA 95223
(209) 753-2112

BOARD OF DIRECTORS:
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28 June 2011

Mary Boyd
CVRWQCB
11020 Sun Center Drive #200
Rancho Cordova, CA 95670-6114

Subject: Order 5-01-208, Discharge Monitoring Report (DMR), May 2011

Dear Ms. Boyd:

Monthly Report, Waste Discharge Requirements, Order 5-01-208

Enclosed please find tabular summaries of monitoring data from the Bear Valley Wastewater Treatment Facility for the month of May 2011. No effluent was discharged to Bloods Creek during this reporting period.

For your convenience, we discuss each of the attachment pages separately.

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The daily and total influent and Bloods Creek discharge flow totals and routine influent monitoring results from the influent composite sampler are presented, as well as routine Treatment Pond monitoring results.

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5.374 MG of Treatment Pond effluent was transferred to the Polishing Reservoir during May. Total volume transferred this season (October 2010-present) totals 31.388 MG. That volume represents 29.6% of total reservoir volume. As of 31 May, based on reservoir elevation however, our capacity chart showed that there was about 94.5 MG in the reservoir, which would constitute 89.1% of reservoir volume. As mentioned in previous reports, and in the Annual Report, we are going to verify reservoir dimensions after this irrigation season, if we can empty it.

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We have modified our reporting format to present side-by-side tables of Polishing Reservoir surface and Polishing Reservoir outfall sample tap results for conventional parameters. Additional columns have been added to report turbidity, chlorine residual, and total and fecal coliform results.

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Results for metals and other mineral analyses from the Polishing Reservoir are presented.

Reported lead and copper concentrations include analyses that resulted in estimated "J-Flag" concentrations that are below the 0.0005 RL from the SIP.

Please do not hesitate to contact me at (209) 753-2112 if there are any questions.

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Respectfully,



Julio S. Guerra
General Manager

cc: Board of Directors
Gary Ghio, District Engineer

enclosure

BEAR VALLEY WASTE WATER TREATMENT FACILITY

Monitoring and Reporting Program No. 5-01-208 & R5-2005-0139
Alpine County

Month: **May**
Year: **2011**

INFLUENT MONITORING												NPDES BLOODS CREEK				TREATMENT POND		
Day	Daily Flow (MGD)	BOD ₅ (mg/L)	pH Avg (SU)	pH Max (SU)	pH Min (SU)	E C (umhos/cm)	TSS (mg/L)	BOD ₅ (lbs/day)	TSS (lbs/day)	Daily Precipitation (Inches)	Snow Water Content (Inches)	Discharge to Bloods Creek (MGD)	Bloods Creek Flow (MGD)	Dissolved Oxygen (mg/L)	pH (SU)	Dissolved Oxygen (mg/L)	pH (SU)	Freeboard (0.1 ft)
1	0.115		6.5	7.3	5.9					0.00	41.63	0.000	27.200	10.32	7.17			
2	0.120		6.4	7.0	6.2					0.00	40.55	0.000	30.700					
3	0.132	12	6.3	6.5	6.1	108	6.3	13	7	0.00	38.95	0.000	35.800	10.33	7.13	7.9	7.2	
4	0.147		6.3	6.6	6.1					0.00	38.87	0.000	46.600					
5	0.160		6.2	6.5	6.1					0.00	37.91	0.000	51.950					
6	0.168		6.2	6.4	6.0					0.00	36.35	0.000	55.067					2.6
7	0.170		6.2	6.5	6.2					0.07	35.03	0.000	58.550			8.1	7.0	
8	0.158		6.2	6.4	6.1					0.11	33.83	0.000	51.050					
9	0.123		6.2	6.5	6.1					0.03	32.87	0.000	44.350					
10	0.120	48	6.2	6.5	6.0		10	48	10	0.00	32.87	0.000	33.700	9.95	7.36	6.8	7.4	
11	0.130		6.1	6.4	5.9					0.00	32.15	0.000	43.450					
12	0.137		6.1	6.5	5.9					0.00	31.19	0.000	57.700					
13	0.158		6.0	6.3	5.9					0.00	30.47	0.000	53.000					2.4
14	0.143		6.0	7.9	6.0					0.02	29.27	0.000	53.000	10.25	7.11	8.8	7.4	
15	0.110		6.1	6.4	5.9					1.12	28.19	0.000	46.600					
16	0.095		6.2	6.3	6.1					0.23	28.55	0.000	28.800					
17	0.090	12	6.2	6.3	6.1		6.2	9	5	1.12	29.15	0.000	26.000					
18	0.082		6.2	6.3	6.1					0.49	30.23	0.000	22.500					
19	0.088		6.3	6.4	6.1					0.00	30.47	0.000	22.100					
20	0.103		6.3	6.4	6.1					0.00	29.15	0.000	23.850	10.12	7.19	9.3	7.4	2.3
21	0.113		6.2	6.4	6.1					0.00	28.19	0.000	29.300					
22	0.120		6.2	6.3	6.1					0.00	27.59	0.000	39.950					
23	0.123		6.2	6.4	6.0					0.00	27.11	0.000	38.333					
24	0.130	12	6.2	6.6	6.1		5	13	5	0.00	26.39	0.000	38.950					
25	0.112		6.5	7.2	6.2					0.37	25.55	0.000	38.300					
26	0.113		6.3	6.6	6.1					0.00	25.19	0.000	26.900					
27	0.115		6.2	6.5	5.9					0.00	24.71	0.000	30.700	10.77	7.20	11.0	8.0	2.5
28	0.110		6.4	6.6	6.1					0.73	23.87	0.000	29.700					
29	0.110		6.5	6.8	6.2					0.06	23.75	0.000	26.900					
30	0.110		6.6	7.0	6.2					0.00	23.87	0.000	25.200					
31	0.105	21	6.3	6.7	6.1	105	30	18	26	0.00	23.15	0.000	26.500					
Total	3.805									4.35		0.000	1,162.700					
Max	0.170	48	6.6	7.9	6.2	108	30	48	26	1.12	41.63	0.000	58.550	10.8	7.36	11.0	8.0	2.6
Min	0.082	12	6.0	6.3	5.9	105	5	9	5	0.00	23.15	0.000	22.100	10.0	7.11	6.8	7.0	2.3
Avg	0.123	21	6.3	6.6	6.1	107	12	20	11	0.14	30.55	0.000	37.506	10.3	7.19	8.6	7.4	2.5

BEAR VALLEY WASTEWATER TREATMENT FACILITY
Monitoring and Reporting Program No. 5-01-208 & R5-2005-0139
Alpine County

Month: **May**

Year: **2011**

Treatment Pond Effluent Monitoring															
Day	Flow (MGD)	BOD (mg/L)	BOD ₅ (lbs/day)	Settleable Solids (ml/L/hr)	TSS (mg/L)	TSS (lbs/day)	Total Coliform Organisms (MPN/100 ml)	Total Kjeldahl Nitrogen (mg/L)	Ammonia-Nitrogen (mg/L)	Nitrate-Nitrogen (mg/L)	TDS (mg/L)	Turbidity (NTU)	Total Chlorine Residual (mg/L)	Contact Time (mg/minutes)	Chlorine Used (lbs)
1	0.000													-	
2	0.185												5.0	467	6
3	0.184	2.0	3.1	<0.1	2.0	3.1		13	11.9	0.15	111	3.79	5.0	472	9
4	0.184	6.2	9.5		2.4	3.7	<2						5.1	479	9
5	0.182						<2						5.1	488	8
6	0.182												5.1	482	9
7	0.185											3.47	4.9	460	10
8	0.189												5.1	462	9
9	0.183	9	13.8		4.4	6.7							5.0	470	9
10	0.188	20	31.3	<0.1	4.5	7.0	<2					3.22	4.9	455	10
11	0.190						<2						5.2	470	9
12	0.195												5.3	468	9
13	0.167												5.1	526	9
14	0.187											3.62	5.1	471	10
15	0.177												5.1	501	10
16	0.182												5.2	491	9
17	0.182	11	16.7	<0.1	3.6	5.5						3.72	5.1	484	8
18	0.172	4.8	6.9		3.2	4.6	<2						4.5	455	8
19	0.065						<2						5.1	1359	8
20	0.176											3.86	5.0	493	8
21	0.175												5.1	503	7
22	0.182			<0.1									5.7	537	9
23	0.181												5.3	502	9
24	0.183	5.9	9.0	<0.1	5.6	8.5						4.16	5.6	529	9
25	0.182	23	34.9		6.4	9.7	<2						5.7	544	9
26	0.177						<2						4.8	465	9
27	0.186			<0.1								4.62	5.2	486	9
28	0.190												5.1	460	9
29	0.199												4.9	427	10
30	0.177												5.1	498	9
31	0.189	12	18.9		14	22.0					96		5.0	454	9
Total	5.374														
Max	0.199	23.0	34.9	<0.1	14.0	22.0	<2	13.0	11.9	0.150	111	4.6	5.7	1359	10
Min	0.000	2.0	3.1	<0.1	2.0	3.1	<2	13.0	11.9	0.150	96	3.2	4.5	427	6
Avg	0.173	10.4	16.0	<0.1	5.1	7.9	<2	13.0	11.9	0.150	104	3.8	5.1	512	9

BEAR VALLEY WASTEWATER TREATMENT FACILITY
Monitoring and Reporting Program No. 5-01-208 & R5-2005-0139

Alpine County

Month: **May**
Year: **2011**

		Polishing Reservoir Surface				Polishing Reservoir Sample Tap													
Day	Freeboard (Feet) Total Depth: 23.5 ft	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	Total Chlorine Residual (mg/L)	Dissolved Oxygen (mg/L)	pH (SU)	BOD (mg/L)	TSS (mg/L)	Turbidity (NTU)	Total Chlorine Residual (mg/L)	Ammonia-Nitrogen (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Nitrate-Nitrogen (mg/L)	Total Nitrogen (mg/L)	Total Coliform (MPN/100 ml)	Fecal Coliform (MPN/100 ml)	Total Dissolved Solids (mg/L)	
1	6.2																		
2	6.2			0.466	<0.004					1.110	0.369								
3	6.0	7.4	6.0	0.647						1.875									
4	5.9										<0.004								
5	5.9							<2.0	<1.0	3.01	<0.004	2.2	1.8	0.4	2.6	<2	<2	50	
6	5.7					5.8	6.6			2.03	<0.004								
7	5.6									2.31	0.030								
8	5.6									2.64	<0.004								
9	5.4										<0.004								
10	5.3	4.7	7.6	0.674		6.0	6.6			2.80	<0.004								
11	5.2			0.540						2.18	<0.004								
12	5.1									2.20	<0.004								
13	5.0										<0.004								
14	4.9					6.3	6.6			2.20	<0.004								
15	4.7										<0.004								
16	4.6										0.009								
17	4.5									1.84	<0.0065*								
18	4.4										0.040								
19	4.4										<0.004	2.1	2.4	0.34	2.74				
20	4.4					7.4	6.8			0.778	<0.101*								
21	4.3										0.011								
22	4.2	10.5	7.0	1.21	<0.004						<0.004								
23	4.1										<0.004								
24	3.9									0.839	<0.004								
25	3.9										<0.004								
26	3.8										<0.004								
27	3.7					7.8	6.8			1.22	<0.004								
28	3.6										0.009								
29	3.5										<0.004								
30	3.4									1.14	<0.004								
31	3.3	11.2	7.6	2.83							<0.004								
Total																			
Max	6.2	11.2	7.6	2.8	<0.004	7.8	6.8	<2.0	<1.0	3.0	0.179*	2.2	2.4	0.4	2.7	<2	<2	50.0	
Min	3.3	4.7	6.0	0.5	<0.004	5.8	6.6	<2.0	<1.0	0.8	<0.004	2.1	1.8	0.3	2.6	<2	<2	50.0	
Avg	4.7	8.4	7.0	1.1	<0.004	6.7	6.7	<2.0	<1.0	1.9	<0.023	2.2	2.1	0.4	2.7	<2	<2	50.0	

*<Note> 5/17: Two samples analyzed for Cl residual: 0.009 mg/L and <0.004 mg/L
5/20: Three samples analyzed for Cl residual: 0.179 mg/L, 0.120 mg/L, and <0.004 mg/L

BEAR VALLEY WASTEWATER TREATMENT FACILITY

Monitoring and Reporting Program No. 5-01-208 & R5-2005-0139

Alpine County

Month: **May**
Year: **2011**

Polishing Reservoir Sample Tap

Day	Freeboard (Feet) Total Depth: 23.5 ft	Aluminum (mg/L)	Boron (mg/L)	Chloride (mg/L)	Copper (mg/L)	Fluoride (mg/L)	Hardness (mg/L)	Iron (mg/L)	Lead* (mg/L)	Manganese (mg/L)	Sodium (mg/L)	Specific Conductance (um/cm)
1	6.2											
2	6.2											
3	6.0											
4	5.9											
5	5.9	<0.050	0.0069	4.2	<0.0005	<0.10	18	0.91	<0.0001	0.099	4.8	79.1
6	5.7											
7	5.6											
8	5.6											
9	5.4											
10	5.3	-	-	-	0.0015	-	20	1.2	<0.0001	0.11	-	-
11	5.2											
12	5.1											
13	5.0											
14	4.9											
15	4.7											
16	4.6											
17	4.5											
18	4.4											
19	4.4											
20	4.4											
21	4.3											
22	4.2											
23	4.1											
24	3.9											
25	3.9											
26	3.8											
27	3.7											
28	3.6											
29	3.5											
30	3.4											
31	3.3											
Total												
Max	6.2	<0.050	0.007	4.2	0.0015	<0.10	20.0	1.2	<0.0001	0.110	4.8	79.1
Min	3.3	<0.050	0.007	4.2	<0.0005	<0.10	18.0	0.9	<0.0001	0.099	4.8	79.1
Avg	4.7	<0.050	0.007	4.2	<0.001	<0.10	19.0	1.1	<0.0001	0.105	4.8	79.1

* Includes J-Flag Estimated Concentrations Below SIP Reporting Levels