Table 32. Analytical Results of Sampling at the STP Percolation Ditches (Summer 2011)

Parameter	units	Screening Level	Screening Level Source	MPL-001 7/20/2011	MPL-002 7/20/2011	MPL-003 7/22/2011	MPL-004 7/21/2011	MPL-005 7/13/2011	MPL-006 7/8/2011	MPL-007 7/6/2011	MPL-010 7/11/2011	MPL-013 7/14/2011	MPL-016 7/7/2011	MPL-017 7/25/2011	MPL-018 7/8/2011	MPL-019 7/28/2011
Chloride	mg/L	250	NMED WQCC	19.7	51.2	55.2	56.2	48.4	17.6	100	42.3	30.3	40.9	43.2	12.7	13.7
Fluoride	mg/L	1.6	NMED WQCC	0.293	0.113J	0.142J	<0.200	0.27	0.292	0.122J	0.228	0.262	0.235	0.204	0.278	0.267
Nitrate and Nitrite as N	mg/L	10	NMED WQCC	2.99	6.2	6.26	9.37	4.6	2.08	**10.5**	5.74	4.48	4.88	5.22	1.62	0.59
Orthophosphate	mg/L	NE	--	<0.0500	0.241	0.133	0.489	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	0.0606	<0.0500	<0.0500	<0.0500
Sulfate	mg/L	600	NMED WQCC	51.9	74.5	111	142	53.3	38.2	138	89.1	52.4	70.7	55.1	35.5	47.5
Total Alkalinity	mg/L	NE	--	87.7	98.2	107	134	82.7	92.2	112	94.9	79	88.1	89.7	106	93.7
Total Dissolved Solids	mg/L	1000	NMED WQCC	332	402	462	560	388	212	642	370	336	336	286	176	218
Total Suspended Solids	mg/L	NE	--	<5	6.5	<5	9	<5	<5	<5	<5	<5	<5	<5	3.50J	<5
pH	s.u.	6.0 - 9.0	NMED WQCC	7.27	8.13	7.4	7.39	7.62	7.28	7.34	7.73	8.14	7.82	7.74	7.65	7.69
Total Arsenic	mg/L	0.1	NMED WQCC	0.000555J	0.00534	0.00826	0.00766	0.00142	0.00152	<0.0200	0.00511	0.00167	0.00163	0.00151	0.00188	0.00162
Total Barium	mg/L	1	NMED WQCC	0.0823	0.0655	0.0485	0.0631	0.105	0.111	0.0578	0.113	0.0982	0.064	0.0711	0.131	0.0743
Total Cadmium	mg/L	0.01	NMED WQCC	<0.000600	<0.000600	<0.000600	<0.000600	<0.000600	<0.000600	<0.0120	<0.000600	<0.000600	<0.000600	<0.000600	<0.000600	<0.00600
Total Chromium	mg/L	0.05	NMED WQCC	0.0192	0.00289	0.00257	0.003	0.00274	0.00397	<0.0200	0.00262	0.00327	0.00187J	0.00223	0.00374	0.00362
Total Cobalt	mg/L	0.05	NMED WQCC	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.0200	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Total Copper	mg/L	1	NMED WQCC	0.00130J	<0.00200	<0.00200	<0.00200	0.00123	<0.00200	<0.0400	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.000200
Total Lead	mg/L	0.05	NMED WQCC	<0.00100	<0.00100	<0.00100	<0.00100	0.0017	<0.00100	<0.0200	<0.00200	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Total Mercury	mg/L	0.002	NMED WQCC	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	0.000118J	<0.000200	<0.0002
Total Nickel	mg/L	0.2	NMED WQCC	0.0847	0.00298	0.00285	0.00360J	<0.00400	<0.00400	<0.0800	0.00372	<0.00400	<0.00400	<0.00400	<0.00400	<0.00400
Total Selenium	mg/L	0.05	NMED WQCC	0.00161	0.0195	0.0305	0.03	0.00399	0.00147	0.0343	0.0201	0.00485	0.00428J	0.00375	0.00127	0.00186
Total Silver	mg/L	0.05	NMED WQCC	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.000699J	<0.0200	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Total Thallium	mg/L	0.00241	NMED Tap Water	<0.000200	<0.000200	<0.00200	<0.000200	<0.000200	<0.000200	<0.00400	<0.000200	<0.000200	<0.000200	<0.00200	<0.00200	<0.000200
Total Vanadium	mg/L	0.183	NMED Tap Water	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	0.00535J	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	0.00526J
Total Zinc	mg/L	10	NMED WQCC	0.0433	<0.0200	0.0133J	<0.0200	<0.0200	0.0102J		0.0118J	<0.0200	<0.0200	<0.0200	<0.0200	0.0149J
Total Cyanide	mg/L	0.2	NMED WQCC	<0.0100	**0.382**	**0.271**	**0.451**	0.141	<0.0100	**0.285**	**0.313**	0.148	0.0636	0.0398	<0.0100	<0.0100
Amenable Cyanide	mg/L	0.2	NMED WQCC	<0.0100	0.381	0.22	0.45	0.141	<0.0100	0.285	0.313	0.146	0.0636	0.0216	<0.0100	<0.0100
Weak Acid Diss Cyanide	mg/L	1.2	NMED WQCC	<0.0100	0.0406	0.0488	0.0444	0.0949	<0.0100	0.0519	0.0535	0.0224	0.0378	0.0214	<0.0100	<0.0100

Parameter	units	Screening Level	Screening Level Source	MPL-020 7/28/2011	MPL-021 8/1/2011	MPL-022 8/1/2011	MPL-023 7/26/2011	MPL-024 7/27/2011	MPL-025 7/25/2011	MPL-026 7/11/2011	MPL-028 7/6/2011	MPL-029 7/5/2011	MPL-030 7/7/2011	T-40 7/13/2011	SMW-01 7/18/2011	
Chloride	mg/L	250	NMED WQCC	69.5	11.6	13	11.9	34.9	45.2	157	77.5	52.4	41	25.4	16.2	
Fluoride	mg/L	1.6	NMED WQCC	0.190J	0.334	0.399	0.293	0.195J	0.198J	<0.600	0.151J	0.120J	0.221	0.149J	0.287	
Nitrate and Nitrite as N	mg/L	10	NMED WQCC	7.72	1.56	1.07	1.65	4.64	5.29	7.56	8.32	6.76	8.15	1.95	2.71	
Orthophosphate	mg/L	NE	--	<0.0500	0.0637	0.05	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	0.105	0.0359J	
Sulfate	mg/L	600	NMED WQCC	101	45.4	30.1	48.5	66.7	51.4	469	132	127	113	33.6	56.2	
Total Alkalinity	mg/L	NE	--	85.6	92.1	61.9	97.5	99.9	106	81.5	93.8	144	112	112	92.7	
Total Dissolved Solids	mg/L	1000	NMED WQCC	466	234	176	206	280	284	**1210**	568	508	484	392	264	
Total Suspended Solids	mg/L	NE	--	<5	<5	<5	<5	<5	<5	3.50J	<5	<5	3.00J	4.50J	<5	
pH	s.u.	6.0 - 9.0	NMED WQCC	7.61	7.46	8.11	7.71	7.7	7.63	7.25	7.51	7.2	7.56	7.41	7	
Total Arsenic	mg/L	0.1	NMED WQCC	0.00689	0.00248	0.00687	0.00152	0.00103	0.000897	0.000876J	0.0135J	<0.00100	0.00496	0.00271	<0.00100	
Total Barium	mg/L	1	NMED WQCC	0.066	0.0529	0.0731	0.0215	0.0986	0.0666	0.0631	0.084	0.0466	0.101	0.126	0.0728	
Total Cadmium	mg/L	0.01	NMED WQCC	<0.00600	<0.000600	<0.00600	<0.000600	<0.000600	<0.000600	<0.000600	<0.0120	<0.000600	<0.000600	<0.000600	<0.000600	
Total Chromium	mg/L	0.05	NMED WQCC	0.00182	0.0052	0.00148	0.00499	0.00284	0.00364	0.00491	<0.0400	0.00273	0.00475	0.00716	0.00122J	
Total Cobalt	mg/L	0.05	NMED WQCC	<0.00100	<0.00100	<0.001	<0.00100	<0.00100	<0.00100	<0.00100	<0.0200	<0.00100	<0.00100	<0.00100	<0.00100	
Total Copper	mg/L	1	NMED WQCC	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	0.00137J	0.0305J	<0.00200	0.00121J	0.00118J	<0.00200	
Total Lead	mg/L	0.05	NMED WQCC	<0.00100	<0.00100	<0.001	<0.00100	<0.00100	<0.00100	<0.00100	<0.0200	<0.00100	<0.00100	<0.00100	<0.00100	
Total Mercury	mg/L	0.002	NMED WQCC	<0.0002	<0.000200	<0.0002	<0.0002	<0.0002	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	
Total Nickel	mg/L	0.2	NMED WQCC	0.00247	<0.00400	<0.004	<0.00400	<0.00400	0.00667	0.00461	<0.0800	0.00419	0.00267J	0.00732	0.0026	
Total Selenium	mg/L	0.05	NMED WQCC	0.0262	0.00223	0.00204	0.000687J	0.00277	0.00331	0.0082	**0.0574**	0.0403	0.0248	0.00281	0.00185	
Total Silver	mg/L	0.05	NMED WQCC	<0.00100	<0.00100	<0.001	<0.00100	<0.00100	<0.00100	<0.00100	<0.0200	<0.00100	<0.00100	<0.00100	<0.00100	
Total Thallium	mg/L	0.00241	NMED Tap Water	<0.0002	<0.00200	<0.0002	<0.000200	<0.000200	<0.000200	<0.000200	<0.00400	<0.000200	<0.000200	<0.000200	<0.000200	
Total Vanadium	mg/L	0.183	NMED Tap Water	<0.0100	0.00515J	0.0151	0.00787J	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	
Total Zinc	mg/L	10	NMED WQCC	0.0252	0.0118J	<0.0200	0.0155J	0.0214	0.0241	<0.0200	0.0116J	<0.0200	<0.0200	<0.0200	0.0257	
Total Cyanide	mg/L	0.2	NMED WQCC	**0.342**	<0.0100	0.00786	<0.0100	0.195	0.0122	<0.0100	**0.324**	**0.241**	**0.326**	<0.0100	<0.0100	
Amenable Cyanide	mg/L	0.2	NMED WQCC	0.205	<0.000267	0.0074	<0.0100	<0.0100	0.0108	<0.0100	0.324	0.241	0.326	<0.0100	<0.0100	
Weak Acid Diss Cyanide	mg/L	1.2	NMED WQCC	0.0518	<0.0100	<0.0100	<0.0100	0.0311	0.00577	<0.0100	0.0723	0.0402	0.0469	<0.0100	<0.0100	

< - Less than the indicated laboratory reporting limit. Bold – Analyte concentration exceeded the screening level. J – Estimated value.