SURFACE WATER QUALITY DOWNSTREAM OF LANDFILL

Parameter	Units	Base Line	Qrt 4 Dec 2013	Qrt 1 Mar 2014	Qrt 2 Jun 2014	Qrt 3 Sept 2014	Qrt 4 Dec 2014	Qrt 1 Mar 2015	Qrt 2 Jun 2015	Qrt 3 Sept 2015	Qrt 4 Dec 2015
		16/07/2013	04/11/2013	11/02/2014	25/06/2014	05/09/2014	16/01/2015	27/03/2015	26/06/2015	30/09/15	12/01/2016
Total Coliforms	MPN/100m	1.10E+04	9.30E+02	2.40E+04	<3	2.40E+04	1.50E+03	7.00E+02	7.50E+03	2.40E+03	2.30E+02
pH		5.92	6.49	7.54	7.72	7.77	6.10	6.66	6.10	6.50	6.88
Temperature	°C	29.50	29.00	31.10	31.10	29.70	27.80	31.00	27.20	26.00	26.00
Conductivity	µS/cm	204.13	120.17	280.33	422.00	331.00	129.70	3,275.00	128.30	271.67	15.98
Chloride	mg/L	8.59	7.35	28.67	17.79	28.87	14.91	52.02	12.92	27.37	16.04
Total Hardness	mg/L	30.00	37.92	64.53	166.12	151.83	50.05	2,003.02	45.42	62.31	52.46
Color *	Pt-Co	<5.0	< 5.0	5.00	<5.0	15.00	<5.0	20.00	10.00	10.00	<10
Dissolved Oxygen *	mg/L	4.84	6.46	5.91	6.98	6.87	7.02	2.35	5.93	6.65	7.04
Biochemical Oxygen Demand	mg/L	9.51	2.52	9.99	<2.12	8.13	3.04	<2.12	2.80	7.75	<2.12
Chemical Demand of Oxygen	mg/L	20.00	31.92	52.58	38.05	17.82	13.55	23.62	56.39	22.89	6.57
Total Suspended Solids	mg/L	22.00	9.00	72.01	11.00	150.36	<6.00	17.07	46.79	42.18	11.05
Total Dissolved Solids	mg/L	124.01	99.02	160.04	275.06	214.20	116.49	3,050.82	110.50	166.70	101.42
Nitrates	mg/L	0.10	< 0.10	< 0.10	<0.10	0.73	<0.1	< 0.1	<0.1	0.53	<0.1
Fats and Oils	mg/L	<3.98	< 3.98	< 3.98	<3.98	<3.98	<3.98	4.86	<3.98	<3.98	11.55
Ammonia Nitrogen	mg/L	<0.3	2.91	4.98	0.62	3.95	<0.3	<0.3	<0.3	2.11	<0.3
Total Phosphorus	mg/L	<4.00	< 4.00	< 4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Arsenic	mg/L	N.D.	N.D.	N.D.	<0.001	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010
Cadmium	mg/L	N.D.	N.D.	N.D.	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Copper	mg/L		N.D.	N.D.	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Hexavalent Chromium	mg/L	N.D.	N.D.	N.D.	<0.05	<0.050	<0.05	<0.05	<0.05	<0.05	<0.1
Iron	mg/L	1.28200	0.79990	2.48900	0.12700	1.24000	0.55300	4.56000	0.67600	0.86200	0.46100
Mercury	mg/L	0.00010	0.00070	0.00010	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Lead	mg/L	N.D.	N.D.	N.D.	<0.100	<0.100	<0.100	0.13300	<0.100	<0.100	<0.100
Sodium	mg/L	6.83400	6.00000	15.50000	13.56400	25.45100	<5.00	29.31000	6.94000	13.58000	6.51000
Phenol	mg/L	0.00350	0.00340	0.02280	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01200