

SURFACE WATER QUALITY UPSTREAM 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 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	4.60E+03	2.40E+03	4.60E+03	2.10E+03	1.10E+04	1.10E+04		4.30E+03	4.60E+03	1.10E+04
pH		6.33	6.33	6.75	6.62	7.52	6.03		7.61	6.23	6.94
Temperature	°C	28.20	26.30	26.00	30.30	28.30	25.20		26.70	26.00	24.00
Conductivity	µS/cm	136.33	222.15	277.33	425.00	373.67	181.37		118.70	181.27	37.73
Chloride	mg/L	9.68	15.18	21.75	27.77	27.82	16.89		10.93	15.93	26.57
Total Hardness	mg/L	40.65	70.00	98.76	185.77	150.46	91.76		29.58	64.35	123.76
Color *	Pt-Co	<5.0	< 5.0	5.00	<5.0	10.00	<5.0		<10	<10	<10
Dissolved Oxygen *	mg/L	5.05	5.15	5.91	4.39	6.08	6.16		5.83	5.56	6.03
Biochemical Oxygen Demand	mg/L	2.54	6.22	2.59	<2.12	14.49	<2.12		<2.12	3.85	2.75
Chemical Demand of Oxygen	mg/L	27.00	30.98	10.55	28.77	17.77	14.52		56.45	26.68	18.81
Total Suspended Solids	mg/L	6.00	26.01	11.00	15.00	89.89	<6.00		11.95	14.06	8.03
Total Dissolved Solids	mg/L	127.01	153.03	196.04	331.07	274.67	170.72		92.58	160.67	231.97
Nitrates	mg/L	<0.1	< 0.10	< 0.10	<0.10	0.14	<0.1		<0.1	<0.1	<0.1
Fats and Oils	mg/L	<3.98	< 3.98	< 3.98	<3.98	4.30	<3.98		<3.98	<3.98	13.89
Ammonia Nitrogen	mg/L	<0.3	< 0.30	< 0.30	<0.30	<0.30	<0.3		<0.3	<0.3	<0.3
Total Phosphorus	mg/L	<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
Cadmium	mg/L	N.D.	N.D.	N.D.	<0.020	<0.020	<0.020		<0.020	<0.020	<0.020
Copper	mg/L		N.D.	0.00370	<0.050	<0.050	<0.050		<0.050	<0.050	<0.050
Hexavalent Chromium	mg/L	N.D.	N.D.	N.D.	<0.05	<0.05	<0.05		<0.05	<0.05	<0.1
Iron	mg/L	0.27830	0.57420	0.65050	0.31100	0.72000	0.23100		0.27000	0.28500	0.38200
Mercury	mg/L	0.00020	0.00020	0.00010	<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		<0.100	<0.100	<0.100
Sodium	mg/L	9.14800	10.00000	11.70000	16.68700	14.42900	7.37000		5.19000	8.64000	10.75000
Phenol	mg/L	0.00560	0.00060	0.01410	<0.01	<0.01	<0.01		<0.01	0.01760	<0.01

¹At the time of the sampling the upstream site was dry, hence no samples were taken