

**Dial A Dump (EC) Pty Ltd**  
**Groundwater Monitoring**



**Licensee:** Dial-A-Dump (EC) Pty Ltd  
**Address:** Genesis Waste Facility, Honeycomb Drive, Eastern Creek

**EPL Nos.:** 13426 and 20121

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Sampled: Q3 2015/2016								
Pollutant	Unit	LOR	Monitoring frequency	BH5s	BH8s	BH15s	BH17d	BH18d
Alkalinity as CaCO <sub>3</sub>	mg/L	1	Quarterly	740	932	777	1480	134
Calcium	mg/L	1	Quarterly	66	82	76	23	76
Chloride	mg/L	1.5	Quarterly	382	2530	1260	251	58
EC	µS/cm		Quarterly	7310	8982	5610	7781	15800
Magnesium	mg/L	50	Quarterly	97	189	204	<1	11
Nitrite as N	mg/L	0.01	Quarterly	0.03	<0.01	<0.01	<0.01	1.78
Nitrate as N	mg/L	0.01	Quarterly	0.76	4.94	22.2	<0.01	0.28
Ammonia as N	mg/L	0.01	Quarterly	0.02	<0.01	0.01	41.7	0.06
pH	pH units		Quarterly	6.83	6.95	6.99	11.55	6.01
Potassium	mg/L	500	Quarterly	5	19	18	30	3
Eh	mV		Quarterly	19.8	27.6	23.4	-263.4	100.3
Sodium	mg/L	1	Quarterly	646	1900	1140	755	72
Sulphate	mg/L	1	Quarterly	285	447	224	<1	182

Sampled: Q2 2015/2016								
Pollutant	Unit	LOR	Monitoring frequency	BH5s	BH8s	BH15s	BH17d	BH18d
Alkalinity as CaCO <sub>3</sub>	mg/L	1	Quarterly	992	Dry	1250	1740	465
Calcium	mg/L	1	Quarterly	98	Dry	84	70	404
Chloride	mg/L	1.5	Quarterly	175	Dry	1310	215	5330
EC	µS/cm		Quarterly	2796	Dry	5942	6961	15820
Magnesium	mg/L	50	Quarterly	117	Dry	24	<1	200
Nitrite as N	mg/L	0.01	Quarterly	0.17	Dry	0.02	<0.01	<0.01
Nitrate as N	mg/L	0.01	Quarterly	14.3	Dry	0.51	0.02	<0.01
Ammonia as N	mg/L	0.01	Quarterly	0.07	Dry	0.06	35	7.26
pH	pH units		Quarterly	7.67	Dry	7.26	13	6.03
Potassium	mg/L	500	Quarterly	3	Dry	20	38	48
Eh	mV		Quarterly	99.6	Dry	86.3	-276.5	98.7
Sodium	mg/L	1	Quarterly	664	Dry	1200	780	3640
Sulphate	mg/L	1	Quarterly	899	Dry	244	<1	<10

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Sampled: Q1 2015/2016								
Pollutant	Unit	LOR	Monitoring frequency	BH5s	BH8s	BH15s	BH17d	BH18d
Alkalinity as CaCO <sub>3</sub>	mg/L	1	Quarterly	769	Dry	1060	1880	806
Calcium	mg/L	1	Quarterly	114	Dry	74	177	370
Chloride	mg/L	1.5	Quarterly	215	Dry	1320	185	3770
EC	µS/cm		Quarterly	3718	Dry	7041	4153	12560
Magnesium	mg/L	50	Quarterly	101	Dry	193	< 1	108
Nitrite as N	mg/L	0.01	Quarterly	< 0.01	Dry	< 0.01	< 0.01	< 0.10
Nitrate as N	mg/L	0.01	Quarterly	21	Dry	0.19	< 0.01	< 0.10
Ammonia as N	mg/L	0.01	Quarterly	0.02	Dry	0.13	47.2	7.05
pH	pH units		Quarterly	6.88	Dry	6.99	6.36	6.7
Potassium	mg/L	500	Quarterly	2	Dry	18	42	82
Eh	mV		Quarterly	61.6	Dry	162.7	-261.6	-240.2
Sodium	mg/L	1	Quarterly	656	Dry	1160	894	2190
Sulphate	mg/L	1	Quarterly	797	Dry	231	12	< 1

Sampled: Q4 2014								
Pollutant	Unit	LOR	Monitoring frequency	BH5s	BH8s	BH15s	BH17d	BH18d
Alkalinity as CaCO <sub>3</sub>	mg/L	1	Quarterly	802	1120	1200	2640	482
Calcium	mg/L	1	Quarterly	89	94	84	293	207
Chloride	mg/L	1.5	Quarterly	200	2630	1400	164	3590
EC	µS/cm		Quarterly	2853	10380	6454	10740	11790
Magnesium	mg/L	50	Quarterly	77	189	197	< 1	106
Nitrite as N	mg/L	0.01	Quarterly	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Nitrate as N	mg/L	0.01	Quarterly	15.7	3.81	0.04	0.02	< 0.01
Ammonia as N	mg/L	0.01	Quarterly	0.02	0.5	0.34	50.9	6.78
pH	pH units		Quarterly	6.57	7.32	6.75	12.25	7.86
Potassium	mg/L	500	Quarterly	1	19	18	40	84
Eh	mV		Quarterly	89	96	73	-252	-101
Sodium	mg/L	1	Quarterly	593	2010	1220	832	1840
Sulphate	mg/L	1	Quarterly	533	501	178	40	2

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Sampled: Q3 2014								
Pollutant	Unit	LOR	Monitoring frequency	BH5s	BH8s	BH15s	BH17d	BH18d
Alkalinity as CaCO <sub>3</sub>	mg/L	1	Quarterly	949	Dry	1120	1740	860
Calcium	mg/L	1	Quarterly	64	Dry	74	2	364
Chloride	mg/L	1.5	Quarterly	135	Dry	1260	176	3860
EC	µS/cm		Quarterly	6.66	Dry	5899	7445	11200
Magnesium	mg/L	50	Quarterly	70	Dry	196	< 1	113
Nitrite as N	mg/L	0.01	Quarterly	< 0.01	Dry	< 0.01	< 0.01	< 0.01
Nitrate as N	mg/L	0.01	Quarterly	2.7	Dry	0.77	< 0.01	< 0.01
Ammonia as N	mg/L	0.01	Quarterly	< 0.01	Dry	0.1	51.2	6.74
pH	pH units		Quarterly	6.66	Dry	6.76	11.96	6.36
Potassium	mg/L	500	Quarterly	1	Dry	18	37	81
Eh	mV		Quarterly	29.3	Dry	138.8	-366.3	-221.4
Sodium	mg/L	1	Quarterly	537	Dry	1180	811	2080
Sulphate	mg/L	1	Quarterly	495	Dry	229	10	< 1

Pollutant	Unit	LOR	Monitoring frequency	BH5s	BH8s	BH15s	BH17d	BH18d
Alkalinity as CaCO <sub>3</sub>	mg/L	1	Quarterly	970	Dry	1180	1920	898
Calcium	mg/L	1	Quarterly	65	Dry	71	< 1	343
Chloride	mg/L	1.5	Quarterly	164	Dry	1250	151	3340
EC	µS/cm		Quarterly	2925	Dry	5857	8676	11620
Magnesium	mg/L	50	Quarterly	77	Dry	205	< 1	102
Nitrite as N	mg/L	0.01	Quarterly	< 0.01	Dry	< 0.01	< 0.01	< 0.01
Nitrate as N	mg/L	0.01	Quarterly	12.1	Dry	0.96	0.06	< 0.01
Ammonia as N	mg/L	0.01	Quarterly	0.01	Dry	0.1	50.7	7.8
pH	pH units		Quarterly	6.98	Dry	7.17	13.05	6.74
Potassium	mg/L	500	Quarterly	1	Dry	22	43	111
Eh	mV		Quarterly	46.6	Dry	136.9	-326.6	-187.9
Sodium	mg/L	1	Quarterly	687	Dry	1450	1040	2650
Sulphate	mg/L	1	Quarterly	685	Dry	238	10	1

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Pollutant	Unit	LOR	Monitoring frequency	BH5s	BH8s	BH15s	BH17d	BH18d
Alkalinity as CaCO <sub>3</sub>	mg/L	1	Quarterly	921	1130	1060	2100	671
Calcium	mg/L	1	Quarterly	70	67	55	2	278
Chloride	mg/L	1.5	Quarterly	166	2710	1460	155	3610
EC	µS/cm		Quarterly	3915	10250	5615	11525	13665
Magnesium	mg/L	50	Quarterly	79	191	179	< 1	88
Nitrite as N	mg/L	0.01	Quarterly	0.03	< 0.01	< 0.01	< 0.01	< 0.01
Nitrate as N	mg/L	0.01	Quarterly	11.6	12.1	0.29	< 0.01	< 0.01
Ammonia as N	mg/L	0.01	Quarterly	< 0.01	0.3	0.36	74	8.47
pH	pH units		Quarterly	7.07	7	6.89	13.16	6.87
Potassium	mg/L	500	Quarterly	2	18	18	42	85
Eh	mV		Quarterly	72.1	99.3	173.6	-383.3	-229.5
Sodium	mg/L	1	Quarterly	658	2170	1360	1010	2290
Sulphate	mg/L	1	Quarterly	595	501	244	6	7

Pollutant	Unit	LOR	Monitoring frequency	BH5s	BH8s	BH15s	BH17d
Alkalinity as CaCO <sub>3</sub>	mg/L	1	Quarterly	Not Sampled	Not Sampled	Not Sampled	Not Sampled
Calcium	mg/L	1	Quarterly	Not Sampled	Not Sampled	Not Sampled	Not Sampled
Chloride	mg/L	1.5	Quarterly	Not Sampled	Not Sampled	Not Sampled	Not Sampled
EC	µS/cm		Quarterly	Not Sampled	Not Sampled	Not Sampled	Not Sampled
Magnesium	mg/L	50	Quarterly	Not Sampled	Not Sampled	Not Sampled	Not Sampled
Nitrite as N	mg/L	0.01	Quarterly	Not Sampled	Not Sampled	Not Sampled	Not Sampled
Nitrate as N	mg/L	0.01	Quarterly	Not Sampled	Not Sampled	Not Sampled	Not Sampled
Ammonia as N	mg/L	0.01	Quarterly	Not Sampled	Not Sampled	Not Sampled	Not Sampled
pH	pH units		Quarterly	Not Sampled	Not Sampled	Not Sampled	Not Sampled
Potassium	mg/L	500	Quarterly	Not Sampled	Not Sampled	Not Sampled	Not Sampled
Eh	mV		Quarterly	Not Sampled	Not Sampled	Not Sampled	Not Sampled
Sodium	mg/L	1	Quarterly	Not Sampled	Not Sampled	Not Sampled	Not Sampled
Sulphate	mg/L	1	Quarterly	Not Sampled	Not Sampled	Not Sampled	Not Sampled

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Sampled: Q3 2013								
Pollutant	Unit	LOR	Monitoring frequency	BH5s	BH8s	BH15s	BH17d	BH18d
Alkalinity as CaCO <sub>3</sub>	mg/L	1	Quarterly	Not Sampled	Not Sampled	Not Sampled	1080	787
Calcium	mg/L	1	Quarterly	Not Sampled	Not Sampled	Not Sampled	< 1	277
Chloride	mg/L	1.5	Quarterly	Not Sampled	Not Sampled	Not Sampled	197	3800
EC	µS/cm		Quarterly	Not Sampled	Not Sampled	Not Sampled	4719	11.16
Magnesium	mg/L	50	Quarterly	Not Sampled	Not Sampled	Not Sampled	< 1	112
Nitrite as N	mg/L	0.01	Quarterly	Not Sampled	Not Sampled	Not Sampled	< 0.01	-
Nitrate as N	mg/L	0.01	Quarterly	Not Sampled	Not Sampled	Not Sampled	0.08	-
Ammonia as N	mg/L	0.01	Quarterly	Not Sampled	Not Sampled	Not Sampled	21.3	6.59
pH	pH units		Quarterly	Not Sampled	Not Sampled	Not Sampled	13.28	6.9
Potassium	mg/L	500	Quarterly	Not Sampled	Not Sampled	Not Sampled	53	102
Eh	mV		Quarterly	Not Sampled	Not Sampled	Not Sampled	-274	-102
Sodium	mg/L	1	Quarterly	Not Sampled	Not Sampled	Not Sampled	673	2180
Sulphate	mg/L	1	Quarterly	Not Sampled	Not Sampled	Not Sampled	28	20

Sampled: Q2 2013						
Pollutant	Unit	LOR	Monitoring frequency	BH5s	BH8s	BH15s
Alkalinity as CaCO <sub>3</sub>	mg/L	1	Quarterly	1180	Dry	1050
Calcium	mg/L	1	Quarterly	75	Dry	70
Chloride	mg/L	1.5	Quarterly	119	Dry	1380
EC	µS/cm		Quarterly	2973	Dry	6192
Magnesium	mg/L	50	Quarterly	90	Dry	190
Nitrite as N	mg/L	0.01	Quarterly	1.55	Dry	< 0.01
Nitrate as N	mg/L	0.01	Quarterly	1.55	Dry	0.02
Ammonia as N	mg/L	0.01	Quarterly	0.005	Dry	0.39
pH	pH units		Quarterly	6.99	Dry	7.32
Potassium	mg/L	500	Quarterly	2	Dry	19
Eh	mV		Quarterly	31	Dry	43
Sodium	mg/L	1	Quarterly	651	Dry	1140
Sulphate	mg/L	1	Quarterly	430	Dry	226

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<b>Sampled: Q1 2013</b>						
<b>Pollutant</b>	<b>Unit</b>	<b>LOR</b>	<b>Monitoring frequency</b>	<b>BH5s</b>	<b>BH8s</b>	<b>BH15s</b>
Alkalinity as CaCO <sub>3</sub>	mg/L	1	Quarterly	1350	1110	1050
Calcium	mg/L	1	Quarterly	36	10	8
Chloride	mg/L	1.5	Quarterly	242	2950	1660
EC	µS/cm		Quarterly	3486	9060	6072
Magnesium	mg/L	50	Quarterly	112	212	199
Nitrite as N	mg/L	0.01	Quarterly	0.18	-	-
Nitrate as N	mg/L	0.01	Quarterly	0.18	-	-
Ammonia as N	mg/L	0.01	Quarterly	< 0.01	0.65	0.03
pH	pH units		Quarterly	7.25	7.79	7.4
Potassium	mg/L	500	Quarterly	< 1	23	22
Eh	mV		Quarterly	33	20	43
Sodium	mg/L	1	Quarterly	798	2470	1320
Sulphate	mg/L	1	Quarterly	643	478	219

<b>Sampled: Q4 2012</b>						
<b>Pollutant</b>	<b>Unit</b>	<b>LOR</b>	<b>Monitoring frequency</b>	<b>BH5s</b>	<b>BH8s</b>	<b>BH15s</b>
Alkalinity as CaCO <sub>3</sub>	mg/L	1	Quarterly	1200	1100	1140
Calcium	mg/L	1	Quarterly	89	84	58
Chloride	mg/L	1.5	Quarterly	294	3150	1500
EC	µS/cm		Quarterly	3610	9575	6418
Magnesium	mg/L	50	Quarterly	111	213	190
Nitrite as N	mg/L	0.01	Quarterly	< 0.01	< 0.01	< 0.01
Nitrate as N	mg/L	0.01	Quarterly	0.03	0.1	0.03
Ammonia as N	mg/L	0.01	Quarterly	0.27	< 0.10	0.62
pH	pH units		Quarterly	6.9	7.29	7.38
Potassium	mg/L	500	Quarterly	2	20	22
Eh	mV		Quarterly	-82	120	36
Sodium	mg/L	1	Quarterly	752	2010	1240
Sulphate	mg/L	1	Quarterly	726	427	226