

Kurnell Landfill Environmental Monitoring Locations

EPA ID No.	Monitoring Location	Easting	Northing
3	BH3A	331557.559	6233612.570
4	BH4A	331555.149	6233531.497
5	BH5A	331325.514	6233723.575
6	BH6A	331588.552	6233160.367
7	BH7A	331293.2	6233053.87
8	BH8A	331005.488	6233233.894
9	BH9C	331540.67	6233420.14
11	BH10A	331819.08	6233299.27
12	BH11A	331350.35	6233170.05
13	BH12A	331166.433	6233699.572
14	BH13A	331447.247	6233662.638
15	BH14	331997.150	6233370.046
16	BH15	332482.813	6233510.587
17	BH16	332149.279	6233032.038
18	BH17	331432.560	6233696.015
19	BH18	330761.63	6233399.46
26	BH19	331786.065	6233268.677
27	BH20	332200.120	6233439.830
28	BH22	332446.162	6233300.895
29	BH23	332254.027	6233075.673
30	BH24	331709.001	6232960.575
31	BH25	330974	6233693
1	LB02	331246	6233411

Kurnell Landfill Quarterly Ground Water Analytical Results - July 2018

Monitoring Location:			BH3A	BH4A	BH5A	BH6A	BH7A	BH8A	BH9C	BH10	BH11A	BH12A	BH13A
Sample Id:			100718-JJ-BH3A	100718-JJ-BH4A	100718-JJ-BH5A	090718-JJ-BH6A	090718-JJ-BH7A	090718-JJ-BH8A	090718-JJ-BH9C	100718-JJ-BH10B	090718-JJ-BH11A	100718-JJ-BH12A	100718-JJ-BH13A
Laboratory Report Number:			195906	195906	195906	195813	195813	195813	195813	195813	195813	195906	195906
Laboratory:			EnviroLab	EnviroLab	EnviroLab	EnviroLab	EnviroLab	EnviroLab	EnviroLab	EnviroLab	EnviroLab	EnviroLab	EnviroLab
Date Sampled:			10 Jul 18	10 Jul 18	10 Jul 18	09 Jul 18	09 Jul 18	09 Jul 18	09 Jul 18	09 Jul 18	09 Jul 18	10 Jul 18	10 Jul 18
Parameters	PQL	Units	2nd quarter	2nd quarter	2nd quarter	2nd quarter	2nd quarter	2nd quarter	2nd quarter	2nd quarter	2nd quarter	2nd quarter	2nd quarter
			2018/2019	2018/2019	2018/2019	2018/2019	2018/2019	2018/2019	2018/2019	2018/2019	2018/2019	2018/2019	2018/2019
Standing Water Level	0.01	mBTOC	3.3	4.1	7.26	4.89	2.66	16.84	5.73	2.92	23.71	10.16	3.8
pH (field)	0.1	pH units	7.67	6.7	6.97	6.49	7.1	7.48	6.64	6.95	6.82	7.06	7.08
Electrical Conductivity (field)	1	µS/cm	979	1113	1290	654	1002	658	1185	1486	2019	1556	1544
pH	0.1	pH units	7.7	6.8	7.1	6.5	7.3	7.6	7.2	7.1	6.8	7.1	7.3
Total Dissolved Solids	5	mg/L	600	690	700	300	470	250	660	970	1500	1000	870
Total Organic Carbon	1	mg/L	6	8	16	720	8	3	20	33	38	18	12
Carbonate Alkalinity (CO3-2)	1	mg/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloride	20	mg/L	43	55	110	43	28	55	63	76	120	180	120
Sulphate	5	mg/L	320	280	66	150	26	16	170	270	490	120	150
Ammonia as N	0.1	mg/L	1.1	0.047	6.4	0.16	<0.005	<0.005	1.2	1.1	0.78	4.6	2
Sodium (Na)	0.03	mg/L	55	55	100	33	37	39	45	69	160	160	180
Potassium (I) Ion	0.03	mg/L	12	11	19	10	2.5	1.2	7.2	14	43	19	13
Calcium (II) Ion	0.03	mg/L	150	180	160	240	160	85	220	280	320	210	190
Magnesium (II) Ion	0.03	mg/L	20	12	23	16	26	8.2	13	26	32	39	24

Kurnell Landfill Quarterly Ground Water Analytical Results - July 2018 (continued)

Sample Location:			BH14	BH15	BH16	BH17	BH18	BH19	BH20	BH22	BH23	BH24	BH25	LB2
Sample Id:			100718-JJ-BH14A	100718-JJ-BH15	100718-JJ-BH16	100718-JJ-BH17	100718-JJ-BH18	090718-JJ-BH19A	100718-JJ-BH20	100718-JJ-BH22	100719-JJ-BH23	090718-JJ-BH24	100718-JJ-BH25	-
Laboratory Report Number:			195906	195906	195906	195906	195906	195813	195906	195906	195906	195813	195906	-
Laboratory:			EnviroLab	EnviroLab	EnviroLab	EnviroLab	EnviroLab	EnviroLab	EnviroLab	EnviroLab	EnviroLab	EnviroLab	EnviroLab	-
Date Sampled:			10 Jul 18	10 Jul 18	10 Jul 18	10 Jul 18	10 Jul 18	09 Jul 18	10 Jul 18	10 Jul 18	10 Jul 18	09 Jul 18	10 Jul 18	10 Jul 18
Parameters	PQL	Units	2nd quarter	2nd quarter	2nd Quarter	2nd Quarter	2nd quarter	2nd quarter	2nd quarter	2nd quarter	2nd quarter	2nd quarter	2nd quarter	2nd quarter
			2018/2019	2018/2019	2018/2019	2018/2019	2018/2019	2018/2019	2018/2019	2018/2019	2018/2019	2018/2019	2018/2019	2018/2019
Standing Water Level	0.01	mBTOC	2.88	4.68	1.06	5.4	27.08	3.53	1.76	2.93	2.9	12.76	7.33	nt
pH (field)	0.1	pH units	6.66	7.27	6.26	6.99	6.81	6.61	7	7.44	6.99	6.45	7.32	nt
Electrical Conductivity (field)	1	µS/cm	1348	1050	381	1171	1270	1002	664	981	810	532	1335	nt
pH	0.1	pH units	6.9	7.4	6.4	7.2	7.1	7	7.4	7.4	7.3	6.8	7.6	nt
Total Dissolved Solids	5	mg/L	840	540	160	690	800	600	410	570	460	220	710	nt
Total Organic Carbon	1	mg/L	110	7	8	8	4	53	9	22	20	7	5	nt
Carbonate Alkalinity (CO3-2)	1	mg/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	nt
Chloride	20	mg/L	120	79	77	59	100	57	63	81	86	22	180	nt
Sulphate	5	mg/L	320	97	12	230	60	220	140	150	41	35	8	nt
Ammonia as N	0.1	mg/L	0.16	0.81	0.015	0.42	1.4	0.018	<0.005	1.1	<0.005	<0.005	0.59	nt
Sodium (Na)	0.03	mg/L	130	86	52	66	92	47	52	75	73	15	180	nt
Potassium (I) Ion	0.03	mg/L	12	4.3	2.3	21	5.8	8.2	6.8	12	12	3	3.9	nt
Calcium (II) Ion	0.03	mg/L	220	130	21	180	180	160	78	120	120	91	140	nt
Magnesium (II) Ion	0.03	mg/L	41	30	5.8	17	32	16	12	19	17	6.1	19	nt

Kurnell Landfill Quarterly Subsurface Gas Results - July 2018

EPA ID No.	Well ID	Initial well pressure above atmospheric (kPa)	Initial vent	Flow Rate L/hr	Initial well concentrations	Maximum vacuum on well (psi)	Recovery time (min)	Total volume purged (L)	Well concentrations following purging
					CH ₄				CH ₄
					(%)				(%)
20	BH4A	<0.1	Nil	0.0	<0.1	-18	<1	30	<0.1
22	BH8B	<0.1	Nil	0.0	<0.1	-18	<1	30	<0.1
23	BH12A	<0.1	Nil	0.2	<0.1	-18	<1	30	<0.1
24	BH13A	<0.1	Nil	0.1	<0.1	-18	<1	30	<0.1
25	BH18	<0.1	Nil	0.1	<0.1	-18	<1	30	<0.1

BOLD Greater than the assessment criteria of 1.0 % CH₄