Sure Partners Limited

ARKLOW BANK WIND PARK PHASE 2
ONSHORE GRID INFRASTRUCTURE

VOLUME III
Chapter 9 APPENDICES

Appendix 9.3b Leachate Assessment

ARUP

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Appendix 9.3b

Generic Assessment Criteria Leachate

Generic Assessment Criteria - Leachate							BH301	BH301	BH301	BH304	BH304	TP001	TP001	TP002	TP002
Test (CEN 10:1)	**Units**	**LOD**	**EQS**	**Count > LOD**	**Exceedances (Count >EQS)**	**Max Conc.↓ Depth →**	1.00-1.50	2.00-2.50	3.00-3.50	0.50-0.50	1.50-1.50	0.40-0.50	1.40-1.50	0.50-0.60	1.40-1.50
Carbon															
Carbon, Organic (diss.filt)	mg/l	<3		**22**	0	77	9.21	5.72	4.24	<3	<3	<3	3.09	<3	4.29
Waste Acceptance Criteria (WAC)															
Temperature	°C			-	-	22.7	20.4	20.3	20.4	20.5	20.5	20.6	18.1	20.7	16.7
pH	pH Units		6.5 to 9.5	-	0	9.22	5	6.85	7.04	7.19	7.39	8.08	8.7	8.36	8.36
Conductivity @ 20 deg.C	µS/cm		2500	**0**	0	2190	2190	889	234	257	81.5	38.1	102	29.9	89.7
Inorganics															
Dissolved solids, Total (meter)	mg/l	<5		**63**	-	1640	1640	684	182	199	65.9	35.5	80.6	38.4	73.3
Fluoride	mg/l	<0.5	1.5	**21**	16	24.1	24.1	1.49	<0.5	<0.5	<0.5	<0.5	0.579	<0.5	<0.5
Sulphate	mg/l	<2	187.5	**31**	13	1580	1580	487	99.9	116	32.1	4.4	<2	4.6	<2
Chloride	mg/l	<2	187.5	**22**	0	122	2	<2	<2	<2	<2	<2	2.7	4.4	2
Filtered (Dissolved) Metals															
Mercury (diss.filt)	mg/l	<0.01	0.00075	**0**	0	0.00005	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Antimony (diss.filt)	mg/l	<1	0.005	**0**	0	0.010	0.00173	<0.001	0.00395	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Arsenic (diss.filt)	mg/l	<0.5	0.0075	**4**	61	2.84	0.103	0.00356	0.0251	0.00155	0.000981	<0.0005	<0.0005	0.00134	<0.0005
Barium (diss.filt)	mg/l	<0.2		**7**	-	0.673	0.00876	0.0249	0.261	0.0161	0.00612	0.00118	0.00678	0.0461	0.00264
Cadmium (diss.filt)	mg/l	<0.08	0.00375	**0**	6	0.03270	0.00764	<0.00008	0.000137	0.000803	0.00017	<0.00008	<0.00008	<0.00008	<0.00008
Chromium (diss.filt)	mg/l	<1	0.0075	**0**	1	0.0079	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00238	<0.001
Copper (diss.filt)	mg/l	<0.3	1.5	**0**	0	1.1	0.0154	0.00141	0.00182	0.00108	0.000455	<0.0003	0.00125	0.00187	<0.0003
Lead (diss.filt)	mg/l	<0.2	0.0075	**0**	0	0.0788	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00126	<0.0002
Molybdenum (diss.filt)	mg/l	<3.0		**0**	-	0.99	0.0119	<0.003	<0.003	<0.003	<0.003	<0.003	0.0086	<0.003	<0.003
Nickel (diss.filt)	mg/l	<0.4	0.015	**0**	2	0.050	0.05	0.00203	0.00306	0.00497	0.00185	<0.0004	<0.0004	0.00147	<0.0004
Selenium (diss.filt)	mg/l	<1.0	0.01	**0**	0	0.00392	0.00206	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Zinc (diss.filt)	mg/l	<1.0	0.075	**1**	36	14.90	0.373	0.0093	0.206	0.013	0.0102	<0.001	0.00148	0.0185	<0.001
Phenols															
Phenol	mg/l	<0.002	46	**0**	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cresols	mg/l	<0.006		**0**	-	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Xylenols	mg/l	<0.008		**0**	-	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
Phenols, Total Detected monohydric	mg/l	<0.016		**0**	-	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016

Generic Assessment Criteria - Leachate				TP003	TP003	TP004	TP004	TP005	TP005	TP006	TP006	TP007	TP007	TP008	TP008	TP009
Test (CEN 10:1)	**Units**	**LOD**	**EQS**	0.50-0.60	1.50-1.60	0.40-0.50	1.40-1.50	0.40-0.50	1.50-1.60	0.40-0.50	1.40-1.50	0.40-0.50	1.50-1.60	0.40-0.50	1.50-1.60	0.50-0.60
Carbon																
Carbon, Organic (diss.filt)	mg/l	<3		<3	<3	3.06	<3	<3	<3	<3	3.54	4.38	<3	3.1	<3	<3
Waste Acceptance Criteria (WAC)																
Temperature	°C			20.3	20.8	20.5	20.7	20.7	20.9	20.7	20.5	19.8	15.1	16.7	18.3	2.8
pH	pH Units		6.5 to 9.5	7.93	8.21	7.68	6.65	8.6	8.32	8.56	6.4	8.53	8.7	7.84	8.52	8.21
Conductivity @ 20 deg.C	µS/cm		2500	40.9	94.8	30.8	34.3	55.2	41.6	28.1	99.3	58.6	109	34.1	99.5	33.1
Inorganics																
Dissolved solids, Total (meter)	mg/l	<5		40.7	75.4	26.6	30.3	28.6	33.4	24.9	73.5	41.3	87.9	27.9	80.9	49.7
Fluoride	mg/l	<0.5	1.5	<0.5	0.517	<0.5	0.532	<0.5	0.794	<0.5	0.725	<0.5	0.724	<0.5	0.608	<0.5
Sulphate	mg/l	<2	187.5	4.4	<2	3.4	<2	3.9	<2	2.5	<2	5.3	<2	2.9	<2	2.6
Chloride	mg/l	<2	187.5	<2	2.9	2.9	4.8	2.7	4.6	<2	4.8	<2	3.4	<2	<2	2.6
Filtered (Dissolved) Metals																
Mercury (diss.filt)	mg/l	<0.01	0.00075	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.000011	<0.00001	<0.00001	<0.00001	<0.00001	0.000012	<0.00001	<0.00001
Antimony (diss.filt)	mg/l	<1	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Arsenic (diss.filt)	mg/l	<0.5	0.0075	<0.0005	<0.0005	0.00155	0.00203	0.000978	0.00124	0.000504	<0.0005	0.00129	0.000516	0.000967	<0.0005	0.00104
Barium (diss.filt)	mg/l	<0.2		0.0815	0.226	0.0543	0.0413	0.0275	0.0314	0.000771	0.0389	0.0223	0.368	0.367	0.00377	0.379
Cadmium (diss.filt)	mg/l	<0.08	0.00375	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
Chromium (diss.filt)	mg/l	<1	0.0075	<0.001	<0.001	0.00254	0.00291	0.00149	0.00218	<0.001	<0.001	0.0037	0.00163	0.00429	<0.001	0.00339
Copper (diss.filt)	mg/l	<0.3	1.5	0.000367	0.00052	0.00157	0.00236	0.00105	0.00166	0.000769	0.000311	0.00322	0.00159	0.00194	0.00087	0.00196
Lead (diss.filt)	mg/l	<0.2	0.0075	<0.0002	<0.0002	0.00121	0.0012	0.000858	0.000889	0.000304	<0.0002	0.00296	0.000248	0.00407	<0.0002	0.00351
Molybdenum (diss.filt)	mg/l	<3.0		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Nickel (diss.filt)	mg/l	<0.4	0.015	<0.0004	<0.0004	0.000672	0.00128	0.00052	0.00118	<0.0004	<0.0004	0.00159	0.000542	0.000564	<0.0004	0.000712
Selenium (diss.filt)	mg/l	<1.0	0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Zinc (diss.filt)	mg/l	<1.0	0.075	0.00263	0.00312	0.0189	0.0135	0.0209	0.0112	<0.001	<0.001	0.00561	0.0191	0.135	0.00297	0.114
Phenols																
Phenol	mg/l	<0.002	46	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cresols	mg/l	<0.006		<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Xylenols	mg/l	<0.008		<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
Phenols, Total Detected monohydric	mg/l	<0.016		<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016

Generic Assessment Criteria - Leachate				TP009	TP010	TP010	TP011	TP011	TP012	TP012	TP201	TP201	TP202	TP202	TP203
Test (CEN 10:1)	**Units**	**LOD**	**EQS**	1.50-1.60	0.40-0.50	1.40-1.50	0.40-0.50	1.40-1.50	0.50-0.60	1.40-1.50	0.50-0.60	1.50-1.60	0.50-0.60	1.40-1.50	0.50-0.60
Carbon															
Carbon, Organic (diss.filt)	mg/l	<3		<3	<3	<3	<3	<3	<3	3.48	<3	<3	4.43	<3	4.31
Waste Acceptance Criteria (WAC)															
Temperature	°C			17.7	20.6	21	20.7	20.5	20.7	20.1	20.5	20.6	19.2	19.5	20.3
pH	pH Units		6.5 to 9.5	8.59	8.22	7.99	8.95	6.82	8.23	7.85	7.81	7.09	8.65	9.13	7.65
Conductivity @ 20 deg.C	µS/cm		2500	94.2	44.1	104	49.3	94	20.3	134	26.1	97.6	18.9	19	13.6
Inorganics															
Dissolved solids, Total (meter)	mg/l	<5		75.6	36	80.9	41.9	76	18.2	104	23.5	76.5	18.2	20	14.5
Fluoride	mg/l	<0.5	1.5	0.678	<0.5	0.631	<0.5	0.574	<0.5	0.787	<0.5	0.957	<0.5	<0.5	<0.5
Sulphate	mg/l	<2	187.5	<2	4.8	<2	3.1	<2	<2	<2	2.5	<2	<2	<2	<2
Chloride	mg/l	<2	187.5	<2	<2	<2	<2	<2	<2	3.9	<2	<2	<2	2.4	<2
Filtered (Dissolved) Metals															
Mercury (diss.filt)	mg/l	<0.01	0.00075	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.0000491	<0.00001	0.0000125
Antimony (diss.filt)	mg/l	<1	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Arsenic (diss.filt)	mg/l	<0.5	0.0075	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00166	<0.0005	<0.0005	<0.0005	0.00432	0.000909	0.00158
Barium (diss.filt)	mg/l	<0.2		0.00618	0.00111	0.00304	0.142	0.00425	0.0371	0.23	0.105	0.24	0.0132	0.063	0.00375
Cadmium (diss.filt)	mg/l	<0.08	0.00375	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
Chromium (diss.filt)	mg/l	<1	0.0075	<0.001	<0.001	<0.001	<0.001	<0.001	0.00167	<0.001	<0.001	<0.001	0.00786	<0.001	0.00144
Copper (diss.filt)	mg/l	<0.3	1.5	0.000907	0.000817	0.000813	0.000347	0.0007	0.00146	0.000597	0.00034	0.000559	0.0071	0.000395	0.0023
Lead (diss.filt)	mg/l	<0.2	0.0075	<0.0002	0.000562	<0.0002	<0.0002	<0.0002	0.000789	<0.0002	<0.0002	<0.0002	0.00463	0.000395	0.00105
Molybdenum (diss.filt)	mg/l	<3.0		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.00369	<0.003	<0.003	<0.003	<0.003	<0.003
Nickel (diss.filt)	mg/l	<0.4	0.015	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	0.000638	<0.0004	<0.0004	<0.0004	0.00434	0.00043	0.000959
Selenium (diss.filt)	mg/l	<1.0	0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Zinc (diss.filt)	mg/l	<1.0	0.075	0.00678	0.0011	<0.001	0.00141	0.00139	0.0175	0.0071	0.0031	0.00364	0.0158	0.00564	0.00398
Phenols															
Phenol	mg/l	<0.002	46	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cresols	mg/l	<0.006		<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Xylenols	mg/l	<0.008		<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
Phenols, Total Detected monohydric	mg/l	<0.016		<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016

Generic Assessment Criteria - Leachate				TP203	TP207	TP207	TP209	TP209	TP210	TP210	TP220	TP220	TP221	TP221	TP222
Test (CEN 10:1)	**Units**	**LOD**	**EQS**	1.60-1.70	0.40-0.50	1.60-1.70	0.50-0.60	1.50-1.60	0.40-0.50	1.50-1.60	0.40-0.50	1.90-2.00	0.40-0.50	1.90-2.00	0.40-0.50
Carbon															
Carbon, Organic (diss.filt)	mg/l	<3		<3	<3	<3	<3	<3	<3	<3	<3	<3	5.93	<3	5.42
Waste Acceptance Criteria (WAC)															
Temperature	°C			19.9	22.6	21.3	20.7	20.1	20.2	20.3	20.6	21.2	20.8	19.7	21.3
pH	pH Units		6.5 to 9.5	8.41	7.89	8.7	8.37	6.73	7.7	7.72	8.16	8.13	7.64	5.75	8.03
Conductivity @ 20 deg.C	µS/cm		2500	12.5	16.3	75.3	9.14	95.5	9.68	70.7	9.04	75.6	10.5	10.4	18
Inorganics															
Dissolved solids, Total (meter)	mg/l	<5		20.5	15.2	58.8	9.61	76.5	10.5	66.1	20.7	62	13.5	15.1	17.5
Fluoride	mg/l	<0.5	1.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Sulphate	mg/l	<2	187.5	<2	<2	<2	<2	7	<2	<2	<2	<2	<2	<2	<2
Chloride	mg/l	<2	187.5	2.2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Filtered (Dissolved) Metals															
Mercury (diss.filt)	mg/l	<0.01	0.00075	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.0000124
Antimony (diss.filt)	mg/l	<1	0.005	<0.001	<0.001	<0.001	<0.001	0.0037	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Arsenic (diss.filt)	mg/l	<0.5	0.0075	0.003	<0.0005	<0.0005	<0.0005	0.00116	<0.0005	0.000575	0.000688	<0.0005	0.000688	<0.0005	0.00098
Barium (diss.filt)	mg/l	<0.2		0.018	0.000795	0.0013	0.000614	0.00807	0.000704	0.00571	0.000871	0.00442	0.00138	0.000716	0.0828
Cadmium (diss.filt)	mg/l	<0.08	0.00375	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
Chromium (diss.filt)	mg/l	<1	0.0075	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00129
Copper (diss.filt)	mg/l	<0.3	1.5	0.000606	0.000678	<0.0003	0.00103	0.000656	<0.0003	0.00291	0.00414	0.000495	0.00663	0.00049	0.00434
Lead (diss.filt)	mg/l	<0.2	0.0075	0.00335	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.000736	<0.0002	0.000322	0.000627	0.000915
Molybdenum (diss.filt)	mg/l	<3.0		<0.003	<0.003	<0.003	<0.003	0.00774	<0.003	<0.003	<0.003	0.00625	<0.003	<0.003	<0.003
Nickel (diss.filt)	mg/l	<0.4	0.015	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	0.000698	<0.0004	0.000748	<0.0004	0.000753
Selenium (diss.filt)	mg/l	<1.0	0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Zinc (diss.filt)	mg/l	<1.0	0.075	0.0116	<0.001	<0.001	0.00153	<0.001	<0.001	<0.001	0.00159	0.00183	0.00652	0.00139	0.0385
Phenols															
Phenol	mg/l	<0.002	46	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cresols	mg/l	<0.006		<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Xylenols	mg/l	<0.008		<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
Phenols, Total Detected monohydric	mg/l	<0.016		<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016

Generic Assessment Criteria - Leachate				TP222	TP301	TP301	TP301	TP301	TP301	TP302	TP302	TP302	TP302	TP303	TP303	TP303
Test (CEN 10:1)	**Units**	**LOD**	**EQS**	1.40-1.50	0.40-0.50	0.90-1.00	1.00-1.10	1.60-1.70	2.90-3.00	0.40-0.50	1.00-1.10	1.60-1.70	3.10-3.20	0.40-0.50	0.90-1.00	1.40-1.50
Carbon																
Carbon, Organic (diss.filt)	mg/l	<3		<3	<3	<3	3.66	11.4	5.33	<3	<3	11	5.83	<3	<3	11.3
Waste Acceptance Criteria (WAC)																
Temperature	°C			21.2	20.7	21.5	20.3	20.4	20.9	20.8	20.8	21.1	20.8	20.2	19.9	20.3
pH	pH Units		6.5 to 9.5	8.03	8.69	6.45	6.63	7.46	6.79	7.04	6.01	7.52	6.32	8.19	7.34	6.9
Conductivity @ 20 deg.C	µS/cm		2500	7.85	74.6	127	1960	212	193	179	59	113	160	73.6	43.6	2110
Inorganics																
Dissolved solids, Total (meter)	mg/l	<5		23.4	55.4	108	1440	162	151	140	51.4	91	126	54.6	36.6	1570
Fluoride	mg/l	<0.5	1.5	<0.5	<0.5	1.43	2.94	<0.5	1.24	3.2	<0.5	<0.5	1.6	<0.5	<0.5	1.38
Sulphate	mg/l	<2	187.5	<2	<2	49.5	1370	60.3	87	49.6	21.7	31.9	69.5	<2	14.9	1460
Chloride	mg/l	<2	187.5	<2	<2	<2	2.3	3.2	4	<2	<2	4.5	2.4	<2	3.7	13.7
Filtered (Dissolved) Metals																
Mercury (diss.filt)	mg/l	<0.01	0.00075	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.0000194	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Antimony (diss.filt)	mg/l	<1	0.005	<0.001	<0.001	<0.01	0.00324	<0.001	<0.001	<0.001	0.00328	<0.001	<0.001	<0.001	0.00178	0.00135
Arsenic (diss.filt)	mg/l	<0.5	0.0075	<0.0005	0.00352	2.84	0.662	0.0104	0.0894	0.00195	0.653	0.0184	0.075	0.00614	0.455	1.13
Barium (diss.filt)	mg/l	<0.2		0.000541	0.00199	0.00461	0.0248	0.0223	0.0369	0.00486	0.00147	0.00803	0.0154	0.00307	0.00152	0.0375
Cadmium (diss.filt)	mg/l	<0.08	0.00375	<0.00008	<0.00008	0.00111	0.00381	<0.00008	0.000137	<0.00008	0.000383	<0.00008	<0.00008	<0.00008	0.000444	0.000603
Chromium (diss.filt)	mg/l	<1	0.0075	0.00111	<0.001	<0.01	<0.001	<0.001	<0.001	0.00122	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (diss.filt)	mg/l	<0.3	1.5	0.000655	0.00147	0.00341	0.00629	0.00394	0.000649	0.00104	0.00511	0.00309	<0.0003	0.00166	0.0467	0.0116
Lead (diss.filt)	mg/l	<0.2	0.0075	<0.0002	<0.0002	<0.002	<0.0002	0.000774	0.000244	<0.0002	0.00576	0.00108	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (diss.filt)	mg/l	<3.0		<0.003	<0.003	0.235	0.99	<0.003	<0.003	0.00508	0.143	<0.003	<0.003	<0.003	0.0493	0.026
Nickel (diss.filt)	mg/l	<0.4	0.015	<0.0004	<0.0004	<0.004	0.0106	0.000761	0.00776	<0.0004	<0.0004	<0.0004	0.00428	<0.0004	0.00162	0.00112
Selenium (diss.filt)	mg/l	<1.0	0.01	<0.001	<0.001	<0.01	0.00135	<0.001	0.00142	<0.001	0.0035	<0.001	0.00112	<0.001	0.00214	<0.001
Zinc (diss.filt)	mg/l	<1.0	0.075	0.00224	0.00165	0.198	2.07	0.00711	0.0681	0.00186	0.0342	0.00445	0.00535	0.00342	0.144	0.124
Phenols																
Phenol	mg/l	<0.002	46	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cresols	mg/l	<0.006		<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Xylenols	mg/l	<0.008		<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
Phenols, Total Detected monohydric	mg/l	<0.016		<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016

Generic Assessment Criteria - Leachate				TP303	TP304	TP304	TP304	TP304	TP305	TP305	TP305	TP305	TP306	TP306	TP306
Test (CEN 10:1)	**Units**	**LOD**	**EQS**	2.90-3.00	0.40-0.50	1.00-1.10	1.60-1.70	3.20-3.30	0.50-0.60	0.90-1.00	1.90-2.00	2.80-2.90	0.50-0.60	1.00-1.10	1.80-1.90
Carbon															
Carbon, Organic (diss.filt)	mg/l	<3		3.72	<3	<3	12.7	3.47	7.05	<3	13	3.37	<3	<3	30.4
Waste Acceptance Criteria (WAC)															
Temperature	°C			20.3	22.2	20.9	20.3	19.9	20.5	20.1	20.1	20.6	20.1	20.5	20.3
pH	pH Units		6.5 to 9.5	6.16	8.43	6.6	7.76	7.89	7.34	7.66	6.56	7.57	7.61	7.87	7.6
Conductivity @ 20 deg.C	µS/cm		2500	761	59.5	75.1	302	59.5	153	89.3	172	47.3	66.6	37.3	113
Inorganics															
Dissolved solids, Total (meter)	mg/l	<5		587	46.5	60.8	232	51.5	126	70.7	128	39.3	48.6	34.7	91
Fluoride	mg/l	<0.5	1.5	<0.5	0.572	<0.5	<0.5	<0.5	0.597	<0.5	<0.5	<0.5	<0.5	<0.5	0.849
Sulphate	mg/l	<2	187.5	447	<2	23	103	22.1	47	30.3	62.8	14.7	<2	5.9	<2
Chloride	mg/l	<2	187.5	3.3	<2	<2	3.4	<2	<2	<2	<2	<2	<2	<2	9
Filtered (Dissolved) Metals															
Mercury (diss.filt)	mg/l	<0.01	0.00075	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.0000156
Antimony (diss.filt)	mg/l	<1	0.005	<0.001	<0.001	<0.001	0.00104	0.00667	<0.001	0.0028	0.0012	0.00662	<0.001	<0.001	0.00136
Arsenic (diss.filt)	mg/l	<0.5	0.0075	0.046	0.0018	0.00094	0.0205	0.0387	0.00303	0.0031	0.00795	0.0117	0.0156	0.00157	0.0478
Barium (diss.filt)	mg/l	<0.2		0.0213	0.00265	0.00926	0.0173	0.00587	0.0711	0.00787	0.022	0.00963	0.0016	0.00258	0.275
Cadmium (diss.filt)	mg/l	<0.08	0.00375	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	0.000102	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	0.000104
Chromium (diss.filt)	mg/l	<1	0.0075	<0.001	<0.001	<0.001	0.00141	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00295
Copper (diss.filt)	mg/l	<0.3	1.5	<0.0003	0.00543	0.00101	0.00611	0.00179	0.0131	0.000466	0.0148	0.00705	0.00166	<0.0003	0.0437
Lead (diss.filt)	mg/l	<0.2	0.0075	<0.0002	0.000604	<0.0002	0.00384	0.000244	0.000333	<0.0002	0.00221	0.00216	<0.0002	<0.0002	0.0352
Molybdenum (diss.filt)	mg/l	<3.0		<0.003	0.011	<0.003	0.00514	0.00355	0.00875	<0.003	<0.003	0.0102	0.00376	<0.003	0.0055
Nickel (diss.filt)	mg/l	<0.4	0.015	0.00158	0.000452	0.000517	0.00129	0.00231	0.00112	0.00308	0.00147	0.00252	<0.0004	<0.0004	0.00322
Selenium (diss.filt)	mg/l	<1.0	0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0014
Zinc (diss.filt)	mg/l	<1.0	0.075	0.0163	0.00566	0.00117	0.00585	0.00877	0.00574	0.0067	0.00706	0.0474	0.00123	0.00181	0.202
Phenols															
Phenol	mg/l	<0.002	46	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cresols	mg/l	<0.006		<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Xylenols	mg/l	<0.008		<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
Phenols, Total Detected monohydric	mg/l	<0.016		<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016

Generic Assessment Criteria - Leachate				TP306	TP307	TP307	TP307	TP307	TP307	TP308	TP308	TP308	TP308	TP309	TP309
Test (CEN 10:1)	**Units**	**LOD**	**EQS**	2.80-	0.40-0.50	0.90-1.00	1.50-1.60	2.50-2.60	3.40-3.50	0.50-0.60	1.00-1.10	1.90-2.00	2.80-2.90	0.50-0.60	0.90-1.00
Carbon															
Carbon, Organic (diss.filt)	mg/l	<3		13.2	5.58	11.2	14.6	69.6	13.2	<3	<3	20.9	4.83	<3	<3
Waste Acceptance Criteria (WAC)															
Temperature	°C			20.3	18.9	18	18.7	15.8	20.6	20.2	20.6	19.3	19.7	20.9	20.7
pH	pH Units		6.5 to 9.5	6.81	8.33	7.99	8.1	7.56	7.66	8.35	8.02	7.01	6.31	7.21	7.56
Conductivity @ 20 deg.C	µS/cm		2500	40.3	480	519	573	209	116	20.5	44.3	100	51	79.1	55.9
Inorganics															
Dissolved solids, Total (meter)	mg/l	<5		38.3	369	393	448	175	88.5	19.5	36.8	82.1	41.1	64.1	47
Fluoride	mg/l	<0.5	1.5	<0.5	0.555	0.705	0.759	0.881	<0.5	<0.5	<0.5	0.519	<0.5	<0.5	<0.5
Sulphate	mg/l	<2	187.5	<2	206	147	132	<10	14.5	4.4	14.5	25.2	16.5	33.1	17.4
Chloride	mg/l	<2	187.5	5.2	<2	7.6	12.3	18.5	16.5	<2	<2	3.4	<2	<2	<2
Filtered (Dissolved) Metals															
Mercury (diss.filt)	mg/l	<0.01	0.00075	<0.00001	<0.00001	<0.00001	<0.00001	0.0000164	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.0000137	<0.00001
Antimony (diss.filt)	mg/l	<1	0.005	0.00173	0.00261	<0.001	<0.001	0.00174	0.00104	<0.001	<0.001	0.00136	0.0054	0.00138	<0.001
Arsenic (diss.filt)	mg/l	<0.5	0.0075	0.0496	0.0064	0.0012	0.00121	0.0463	0.0332	<0.0005	<0.0005	0.0418	0.0134	0.207	0.00141
Barium (diss.filt)	mg/l	<0.2		0.115	0.0149	0.237	0.228	0.673	0.00879	0.00318	0.00604	0.281	0.154	0.00497	0.00395
Cadmium (diss.filt)	mg/l	<0.08	0.00375	<0.00008	<0.00008	<0.00008	<0.00008	0.000267	<0.00008	<0.00008	<0.00008	0.000156	<0.00008	0.00426	0.0000988
Chromium (diss.filt)	mg/l	<1	0.0075	0.00195	<0.001	<0.001	<0.001	0.00597	0.00101	<0.001	<0.001	0.00207	<0.001	<0.001	<0.001
Copper (diss.filt)	mg/l	<0.3	1.5	0.0074	0.00438	0.00774	0.0055	0.0153	0.00818	<0.0003	<0.0003	0.0557	0.00327	0.311	0.000301
Lead (diss.filt)	mg/l	<0.2	0.0075	0.0115	<0.0002	0.000216	<0.0002	0.0612	0.00112	<0.0002	<0.0002	0.0303	0.00135	<0.0002	<0.0002
Molybdenum (diss.filt)	mg/l	<3.0		0.00527	0.00807	0.00432	0.00705	0.00903	<0.003	<0.003	<0.003	<0.003	0.00565	0.0132	<0.003
Nickel (diss.filt)	mg/l	<0.4	0.015	0.000958	0.000966	0.000509	<0.0004	0.0059	0.00107	<0.0004	0.000855	0.00212	0.00342	0.00155	<0.0004
Selenium (diss.filt)	mg/l	<1.0	0.01	0.00173	0.00131	0.00103	<0.001	0.00311	<0.001	<0.001	<0.001	0.0013	<0.001	<0.001	<0.001
Zinc (diss.filt)	mg/l	<1.0	0.075	0.0781	0.00293	0.0265	0.016	0.524	0.00943	<0.001	0.0029	0.23	0.0906	0.571	0.00161
Phenols															
Phenol	mg/l	<0.002	46	<0.002	<0.002	<0.002	<0.002	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cresols	mg/l	<0.006		<0.006	<0.006	<0.006	<0.006	<0.03	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Xylenols	mg/l	<0.008		<0.008	<0.008	<0.008	<0.008	<0.04	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
Phenols, Total Detected monohydric	mg/l	<0.016		<0.016	<0.016	<0.016	<0.016	<0.08	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016

Generic Assessment Criteria - Leachate				TP309	TP310	TP310	TP310	TP310	TP311	TP311	TP311	TP311	TP312	TP312	TP312	TP312
Test (CEN 10:1)	**Units**	**LOD**	**EQS**	1.90-2.00	0.50-0.60	1.00-1.10	1.40-1.50	2.50-2.60	0.40-0.50	1.10-1.20	2.10-2.20	3.10-3.20	0.40-0.50	0.80-0.90	1.40-1.50	2.10-2.20
Carbon																
Carbon, Organic (diss.filt)	mg/l	<3		11.5	3.1	<3	<3	3.19	3.69	3.02	3.38	4.22	<3	5.8	<3	13.6
Waste Acceptance Criteria (WAC)																
Temperature	°C			19.7	20.3	21.3	21.4	20.4	19.1	18.6	18.1	18.3	20.3	20.4	20.3	21.2
pH	pH Units		6.5 to 9.5	6.29	7.92	8.15	6.86	7.41	8.5	6.37	7.97	8.72	8.57	7.68	7.14	7.23
Conductivity @ 20 deg.C	µS/cm		2500	259	136	105	2030	124	348	2060	170	42.7	76.5	208	1980	1500
Inorganics																
Dissolved solids, Total (meter)	mg/l	<5		207	110	84.6	1550	99.7	266	1550	131	48.2	71.2	171	1490	1130
Fluoride	mg/l	<0.5	1.5	2.41	1.52	<0.5	1.98	<0.5	0.657	1.09	<0.5	<0.5	<0.5	2.72	1.88	0.724
Sulphate	mg/l	<2	187.5	107	28.2	37.8	1430	42.6	139	1490	49.7	9	<2	61.6	1380	954
Chloride	mg/l	<2	187.5	8.7	<2	<2	2.5	3.1	<2	2	2.4	5.9	<2	<2	<2	2.7
Filtered (Dissolved) Metals																
Mercury (diss.filt)	mg/l	<0.01	0.00075	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Antimony (diss.filt)	mg/l	<1	0.005	<0.001	0.00178	<0.001	<0.001	<0.001	<0.001	0.00112	<0.001	0.00109	<0.001	<0.001	0.0015	<0.001
Arsenic (diss.filt)	mg/l	<0.5	0.0075	0.00805	0.0077	0.00102	0.00636	0.00599	0.00691	0.00135	<0.0005	0.0807	0.00746	0.0552	0.0352	0.00779
Barium (diss.filt)	mg/l	<0.2		0.263	0.00476	0.0101	0.0236	0.0175	0.00827	0.0407	0.00874	0.228	0.00325	0.00785	0.0328	0.111
Cadmium (diss.filt)	mg/l	<0.08	0.00375	0.00172	<0.00008	<0.00008	0.00012	<0.00008	<0.00008	0.000402	<0.00008	<0.00008	<0.00008	<0.00008	0.00164	<0.00008
Chromium (diss.filt)	mg/l	<1	0.0075	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00135	<0.001	<0.001	<0.001	<0.001
Copper (diss.filt)	mg/l	<0.3	1.5	0.00541	0.00574	0.00134	0.00163	0.00289	0.00571	0.00227	0.00144	0.00323	0.00374	0.00872	0.00431	0.00131
Lead (diss.filt)	mg/l	<0.2	0.0075	<0.0002	0.00045	<0.0002	0.000204	0.000598	<0.0002	0.000519	<0.0002	0.00282	<0.0002	0.00106	<0.0002	<0.0002
Molybdenum (diss.filt)	mg/l	<3.0		<0.003	0.00878	<0.003	<0.003	<0.003	0.0101	<0.003	<0.003	<0.003	0.00552	0.025	<0.003	0.00605
Nickel (diss.filt)	mg/l	<0.4	0.015	0.00784	<0.0004	0.000441	0.0065	0.00046	0.000433	0.0215	<0.0004	0.00158	<0.0004	0.000411	0.00748	0.00202
Selenium (diss.filt)	mg/l	<1.0	0.01	<0.001	0.0015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00105	<0.001	<0.001	<0.001	<0.001
Zinc (diss.filt)	mg/l	<1.0	0.075	14.9	0.00207	<0.001	0.00469	0.00482	<0.001	0.0178	0.00285	0.138	0.00129	0.00372	0.631	0.0111
Phenols																
Phenol	mg/l	<0.002	46	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cresols	mg/l	<0.006		<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Xylenols	mg/l	<0.008		<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
Phenols, Total Detected monohydric	mg/l	<0.016		<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016

Generic Assessment Criteria - Leachate				TP312	TP313	TP313	TP313	TP313	TP314	TP314	TP314	TP314	TP315	TP315	TP315
Test (CEN 10:1)	**Units**	**LOD**	**EQS**	3.00-3.10	0.40-0.50	1.10-1.20	1.60-1.70	2.70-2.80	0.50-0.60	1.10-1.20	1.80-1.90	2.90-3.00	0.40-0.50	0.90-1.00	1.50-1.60
Carbon															
Carbon, Organic (diss.filt)	mg/l	<3		3.64	<3	<3	14.9	3.98	<3	<3	19.1	3.36	<3	3.09	13.6
Waste Acceptance Criteria (WAC)															
Temperature	°C			20.2	20.4	20.8	20.7	16.7	21.1	20.5	20.9	21.2	20.9	20.9	20.9
pH	pH Units		6.5 to 9.5	6.95	7.35	6.95	6.81	7.64	8.46	8.12	7.71	8.17	8.22	7.71	7.81
Conductivity @ 20 deg.C	µS/cm		2500	400	39.9	31.2	111	126	68.4	69.1	90.3	28.1	130	69.6	145
Inorganics															
Dissolved solids, Total (meter)	mg/l	<5		301	34.4	27.6	87.6	104	48.4	58.8	76.5	25	106	56.7	105
Fluoride	mg/l	<0.5	1.5	<0.5	<0.5	<0.5	0.811	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.35	<0.5
Sulphate	mg/l	<2	187.5	188	<2	9.1	34.2	52.6	19.2	20.4	24	5.7	57.7	3.1	45.9
Chloride	mg/l	<2	187.5	3.9	<2	<2	2.4	<2	<2	<2	2.8	<2	<2	<2	<2
Filtered (Dissolved) Metals															
Mercury (diss.filt)	mg/l	<0.01	0.00075	<0.00001	<0.00001	<0.00001	0.0000104	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Antimony (diss.filt)	mg/l	<1	0.005	0.00105	<0.001	<0.001	<0.001	0.00441	<0.001	<0.001	<0.001	0.00992	<0.001	<0.001	<0.001
Arsenic (diss.filt)	mg/l	<0.5	0.0075	0.0877	0.000632	0.00147	0.0455	0.00667	<0.0005	0.00215	0.0288	0.0206	<0.0005	0.00431	0.0472
Barium (diss.filt)	mg/l	<0.2		0.0626	0.00134	0.00263	0.0104	0.0286	0.00183	0.00357	0.00767	0.00446	0.0248	0.00227	0.0123
Cadmium (diss.filt)	mg/l	<0.08	0.00375	0.00109	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	0.000158	<0.00008	<0.00008
Chromium (diss.filt)	mg/l	<1	0.0075	<0.001	<0.001	<0.001	0.00221	<0.001	<0.001	<0.001	0.00139	<0.001	<0.001	<0.001	<0.001
Copper (diss.filt)	mg/l	<0.3	1.5	0.00358	0.000539	0.000529	0.0233	0.0026	<0.0003	0.000531	0.0154	0.00433	0.00389	0.00106	0.00475
Lead (diss.filt)	mg/l	<0.2	0.0075	0.00239	<0.0002	<0.0002	0.0138	0.000473	<0.0002	<0.0002	0.00477	0.00268	<0.0002	<0.0002	0.00365
Molybdenum (diss.filt)	mg/l	<3.0		<0.003	<0.003	<0.003	0.0104	<0.003	<0.003	<0.003	<0.003	0.0105	<0.003	<0.003	0.00362
Nickel (diss.filt)	mg/l	<0.4	0.015	0.00309	<0.0004	<0.0004	0.00179	0.0106	0.000738	0.00176	0.00203	0.00124	0.00533	<0.0004	0.00152
Selenium (diss.filt)	mg/l	<1.0	0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Zinc (diss.filt)	mg/l	<1.0	0.075	0.0234	<0.001	<0.001	0.0147	3.6	0.00652	0.00426	0.0106	0.0365	0.0276	<0.001	0.014
Phenols															
Phenol	mg/l	<0.002	46	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cresols	mg/l	<0.006		<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Xylenols	mg/l	<0.008		<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
Phenols, Total Detected monohydric	mg/l	<0.016		<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016

Generic Assessment Criteria - Leachate				TP315	TP316	TP316	TP316	TP317	TP317	TP317	TP317	TP318	TP318	TP318	TP319
Test (CEN 10:1)	**Units**	**LOD**	**EQS**	2.50-2.60	0.40-0.50	0.80-1.00	1.50-1.60	0.40-0.50	1.40-1.50	1.90-2.00	3.10-3.20	0.50-0.60	0.90-1.00	2.00-2.10	0.40-0.50
Carbon															
Carbon, Organic (diss.filt)	mg/l	<3		<3	<3	<3	17.3	<3	3.24	25.1	5.19	<3	<3	4.26	<3
Waste Acceptance Criteria (WAC)															
Temperature	°C			22.7	18.6	19.7	18.2	18.8	21.4	16.9	17.1	20.6	17.7	20.8	20
pH	pH Units		6.5 to 9.5	7.08	8.04	6.15	6.09	7.92	7.56	7.2	7.48	6.97	8.49	6.52	8.53
Conductivity @ 20 deg.C	µS/cm		2500	17.8	30.8	80.6	377	293	37	98.2	23.8	431	150	161	104
Inorganics															
Dissolved solids, Total (meter)	mg/l	<5		14.2	27.7	62.7	286	232	31.5	80.4	21.1	326	124	130	82.9
Fluoride	mg/l	<0.5	1.5	<0.5	<0.5	<0.5	3.81	<0.5	<0.5	1.18	<0.5	<0.5	<0.5	<0.5	<0.5
Sulphate	mg/l	<2	187.5	2.5	2.1	31.7	161	130	4.2	<2	<2	191	62.3	24.1	39
Chloride	mg/l	<2	187.5	<2	<2	<2	3.9	2.2	<2	8.7	3.1	<2	2.2	8.9	<2
Filtered (Dissolved) Metals															
Mercury (diss.filt)	mg/l	<0.01	0.00075	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.0000122	<0.00001	<0.00001	<0.00001	<0.00001	0.0000322
Antimony (diss.filt)	mg/l	<1	0.005	0.00234	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00295	<0.001	0.00214
Arsenic (diss.filt)	mg/l	<0.5	0.0075	0.00868	0.000593	0.00118	0.0139	<0.0005	0.000957	0.0383	0.0595	0.000956	0.315	0.005	0.323
Barium (diss.filt)	mg/l	<0.2		0.00144	0.176	0.0313	0.252	0.0276	0.00315	0.297	0.172	0.0176	0.00214	0.0155	0.00215
Cadmium (diss.filt)	mg/l	<0.08	0.00375	<0.00008	<0.00008	0.000998	<0.00008	<0.00008	<0.00008	<0.00008	0.000109	0.00133	0.0021	0.0000836	0.000922
Chromium (diss.filt)	mg/l	<1	0.0075	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00224	0.00116	<0.001	<0.001	<0.001	<0.001
Copper (diss.filt)	mg/l	<0.3	1.5	0.00133	<0.0003	0.105	0.00148	0.0014	0.000689	0.0223	0.00303	0.00125	0.0142	0.00439	0.00509
Lead (diss.filt)	mg/l	<0.2	0.0075	0.000277	<0.0002	0.00063	0.000441	<0.0002	<0.0002	0.0185	0.00463	<0.0002	<0.0002	<0.0002	0.000977
Molybdenum (diss.filt)	mg/l	<3.0		<0.003	<0.003	<0.003	<0.003	0.00716	<0.003	0.00322	0.00696	0.00406	0.141	<0.003	0.18
Nickel (diss.filt)	mg/l	<0.4	0.015	<0.0004	<0.0004	0.00834	0.00966	<0.0004	<0.0004	0.0025	0.000873	0.000502	0.00205	<0.0004	0.000948
Selenium (diss.filt)	mg/l	<1.0	0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00119	<0.001	<0.001	0.00248	<0.001	0.00198
Zinc (diss.filt)	mg/l	<1.0	0.075	0.00436	0.0129	0.273	0.66	0.00323	0.00154	0.22	0.105	0.0185	0.525	0.0172	0.168
Phenols															
Phenol	mg/l	<0.002	46	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cresols	mg/l	<0.006		<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Xylenols	mg/l	<0.008		<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
Phenols, Total Detected monohydric	mg/l	<0.016		<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016

Generic Assessment Criteria - Leachate				TP319	TP319	TP319	TP320	TP320	TP320	TP320	TP321	TP321	TP321	TP321	TP321
Test (CEN 10:1)	**Units**	**LOD**	**EQS**	1.20-1.30	2.30-2.40	3.50-3.60	0.50-0.60	1.00-1.10	1.50-1.60	2.50-2.60	0.40-0.50	0.90-1.00	1.60-1.70	2.00-2.10	3.00-3.10
Carbon															
Carbon, Organic (diss.filt)	mg/l	<3		7.04	<3	7.11	<3	<3	11.4	<3	<3	3.09	39.1	11.6	5.09
Waste Acceptance Criteria (WAC)															
Temperature	°C			19.3	17.8	20.5	20.5	20.1	20	20.2	18.5	18.5	17.8	20.7	20.8
pH	pH Units		6.5 to 9.5	7.75	7.42	5.61	7.49	7.62	7.59	6.61	7.16	7.88	7.36	7.6	7.61
Conductivity @ 20 deg.C	µS/cm		2500	178	307	223	96.7	65.1	169	281	66.8	204	165	121	32.1
Inorganics															
Dissolved solids, Total (meter)	mg/l	<5		137	247	164	75.6	51.1	132	215	63.2	158	136	97	27.8
Fluoride	mg/l	<0.5	1.5	0.733	2.3	8.47	0.748	0.633	<0.5	<0.5	<0.5	1.15	1.55	0.687	<0.5
Sulphate	mg/l	<2	187.5	66.5	150	95.8	15.4	19.2	19.6	111	<2	52.1	<2	4.2	<2
Chloride	mg/l	<2	187.5	<2	2.2	4.5	<2	<2	2.2	2.5	<2	<2	10.9	6.4	5.4
Filtered (Dissolved) Metals															
Mercury (diss.filt)	mg/l	<0.01	0.00075	<0.00001	<0.00001	<0.00001	<0.00001	0.0000204	<0.00001	<0.00001	<0.00001	<0.00001	0.0000246	<0.00001	<0.00001
Antimony (diss.filt)	mg/l	<1	0.005	<0.001	<0.001	<0.001	0.00181	0.00407	<0.001	<0.001	<0.001	<0.001	0.00159	<0.001	0.00167
Arsenic (diss.filt)	mg/l	<0.5	0.0075	0.00498	<0.0005	0.133	0.0107	1.39	0.00905	<0.0005	0.000923	0.000908	0.0573	0.0461	0.0348
Barium (diss.filt)	mg/l	<0.2		0.0264	0.0246	0.383	0.194	0.00328	0.0199	0.0138	0.00241	0.0229	0.359	0.2	0.00357
Cadmium (diss.filt)	mg/l	<0.08	0.00375	0.0021	0.0327	0.0000856	<0.00008	0.000125	<0.00008	0.00302	<0.00008	<0.00008	0.000122	<0.00008	<0.00008
Chromium (diss.filt)	mg/l	<1	0.0075	<0.001	<0.001	0.00457	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00411	0.00195	0.00126
Copper (diss.filt)	mg/l	<0.3	1.5	0.0181	0.284	0.00708	0.00204	0.0172	0.00176	0.00217	<0.0003	0.00106	0.0634	0.00788	0.00646
Lead (diss.filt)	mg/l	<0.2	0.0075	0.000269	<0.0002	0.0112	0.000924	0.0788	<0.0002	<0.0002	<0.0002	<0.0002	0.054	0.00853	0.00529
Molybdenum (diss.filt)	mg/l	<3.0		<0.003	<0.003	<0.003	0.00834	0.0705	<0.003	<0.003	0.00624	<0.003	0.0063	<0.003	0.00847
Nickel (diss.filt)	mg/l	<0.4	0.015	0.000997	0.0137	0.00244	<0.0004	<0.0004	<0.0004	0.00174	<0.0004	<0.0004	0.00372	0.0011	0.000753
Selenium (diss.filt)	mg/l	<1.0	0.01	0.00278	<0.001	<0.001	<0.001	0.00339	<0.001	<0.001	<0.001	<0.001	0.00254	0.00122	0.0015
Zinc (diss.filt)	mg/l	<1.0	0.075	0.43	12.6	0.306	0.0144	0.0201	0.00191	0.709	0.00157	0.00309	0.284	0.0858	0.00841
Phenols															
Phenol	mg/l	<0.002	46	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cresols	mg/l	<0.006		<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Xylenols	mg/l	<0.008		<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
Phenols, Total Detected monohydric	mg/l	<0.016		<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016

Generic Assessment Criteria - Leachate				TP322	TP322	TP322	TP322	TP323	TP323	TP323	TP323	TP324	TP324	TP324	TP325
Test (CEN 10:1)	**Units**	**LOD**	**EQS**	0.60-0.70	1.00-1.10	1.60-1.70	2.70-2.80	0.40-0.50	1.40-1.50	2.00-2.10	2.50-2.60	0.50-0.60	1.10-1.20	2.00-2.10	0.40-0.50
Carbon															
Carbon, Organic (diss.filt)	mg/l	<3		33.7	77	58.1	4.13	<3	<3	29.7	<3	<3	<3	9.4	<3
Waste Acceptance Criteria (WAC)															
Temperature	°C			18.4	17.5	16.9	21	18	18.4	17.9	20.6	20.1	20.2	20.8	20.3
pH	pH Units		6.5 to 9.5	7.3	8.08	6.55	7.94	7.76	6.79	7.97	7.68	9.22	6.48	6.07	6.74
Conductivity @ 20 deg.C	µS/cm		2500	747	653	185	49.7	118	73.4	295	15.9	157	261	93.3	44.8
Inorganics															
Dissolved solids, Total (meter)	mg/l	<5		567	503	155	40.6	196	57.4	76.3	16.7	122	204	74.3	36.2
Fluoride	mg/l	<0.5	1.5	2.58	2.87	0.565	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.04	<0.5	<0.5
Sulphate	mg/l	<2	187.5	317	<2	<10	11.9	52.1	14.2	<2	<2	64.2	128	30.1	15.7
Chloride	mg/l	<2	187.5	34.4	122	25.3	3.8	<2	<2	6.8	<2	<2	<2	5	<2
Filtered (Dissolved) Metals															
Mercury (diss.filt)	mg/l	<0.01	0.00075	<0.00001	0.0000134	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Antimony (diss.filt)	mg/l	<1	0.005	0.00145	0.00302	0.00364	0.00447	<0.001	<0.001	0.00102	0.00193	<0.001	0.00152	<0.001	<0.001
Arsenic (diss.filt)	mg/l	<0.5	0.0075	0.00854	0.0163	0.0317	0.0223	<0.0005	0.0081	0.0322	0.00817	0.0323	0.229	0.0142	<0.0005
Barium (diss.filt)	mg/l	<0.2		0.015	0.0288	0.365	0.00658	0.0221	0.204	0.32	0.00346	0.00435	0.00297	0.0408	0.0041
Cadmium (diss.filt)	mg/l	<0.08	0.00375	<0.00008	0.000108	0.000405	<0.00008	0.000353	<0.00008	0.0000965	<0.00008	0.00117	0.0226	0.000557	0.000101
Chromium (diss.filt)	mg/l	<1	0.0075	<0.001	0.00446	0.00622	0.00119	<0.001	<0.001	0.00317	<0.001	<0.001	<0.001	0.00104	<0.001
Copper (diss.filt)	mg/l	<0.3	1.5	0.00118	0.0041	0.125	0.00533	<0.0003	0.00121	0.0162	0.00454	0.00184	1.11	0.0148	<0.0003
Lead (diss.filt)	mg/l	<0.2	0.0075	0.000341	0.0096	0.0334	0.0017	<0.0002	0.000559	0.00731	0.0012	<0.0002	<0.0002	0.00249	<0.0002
Molybdenum (diss.filt)	mg/l	<3.0		0.0277	0.0599	0.00999	0.00505	<0.003	<0.003	<0.003	<0.003	0.0151	0.0172	<0.003	<0.003
Nickel (diss.filt)	mg/l	<0.4	0.015	0.00352	0.00708	0.0061	0.00219	0.00556	0.00132	0.0034	0.000577	0.000985	0.0101	0.00184	0.000765
Selenium (diss.filt)	mg/l	<1.0	0.01	<0.001	0.00103	0.00392	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00169	0.00194	<0.001
Zinc (diss.filt)	mg/l	<1.0	0.075	0.00463	0.00882	0.309	0.00651	0.0178	0.0733	0.226	0.00671	0.0393	5.47	4.33	0.0113
Phenols															
Phenol	mg/l	<0.002	46	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cresols	mg/l	<0.006		<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Xylenols	mg/l	<0.008		<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
Phenols, Total Detected monohydric	mg/l	<0.016		<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016

Generic Assessment Criteria - Leachate				TP325	TP325	TP325
Test (CEN 10:1)	**Units**	**LOD**	**EQS**	0.90-1.00	1.70-1.80	2.80-2.90
Carbon						
Carbon, Organic (diss.filt)	mg/l	<3		<3	28.9	<3
Waste Acceptance Criteria (WAC)						
Temperature	°C			20.47	20.4	20.3
pH	pH Units		6.5 to 9.5	6.45	6.75	6.99
Conductivity @ 20 deg.C	µS/cm		2500	168	121	23.4
Inorganics						
Dissolved solids, Total (meter)	mg/l	<5		129	93.8	20
Fluoride	mg/l	<0.5	1.5	<0.5	1.72	<0.5
Sulphate	mg/l	<2	187.5	69.4	24.6	5.1
Chloride	mg/l	<2	187.5	<2	6.8	<2
Filtered (Dissolved) Metals						
Mercury (diss.filt)	mg/l	<0.01	0.00075	<0.00001	<0.00001	<0.00001
Antimony (diss.filt)	mg/l	<1	0.005	0.00404	0.00187	0.0093
Arsenic (diss.filt)	mg/l	<0.5	0.0075	0.0928	0.0219	0.0273
Barium (diss.filt)	mg/l	<0.2		0.00309	0.266	0.0051
Cadmium (diss.filt)	mg/l	<0.08	0.00375	0.00273	0.0294	0.000112
Chromium (diss.filt)	mg/l	<1	0.0075	<0.001	0.00131	<0.001
Copper (diss.filt)	mg/l	<0.3	1.5	0.0254	0.32	0.0034
Lead (diss.filt)	mg/l	<0.2	0.0075	<0.0002	0.0057	0.00105
Molybdenum (diss.filt)	mg/l	<3.0		0.109	<0.003	0.00619
Nickel (diss.filt)	mg/l	<0.4	0.015	0.00279	0.00184	0.00314
Selenium (diss.filt)	mg/l	<1.0	0.01	<0.001	0.00363	<0.001
Zinc (diss.filt)	mg/l	<1.0	0.075	0.617	1.54	0.0331
Phenols						
Phenol	mg/l	<0.002	46	<0.002	<0.002	<0.002
Cresols	mg/l	<0.006		<0.006	<0.006	<0.006
Xylenols	mg/l	<0.008		<0.008	<0.008	<0.008
Phenols, Total Detected monohydric	mg/l	<0.016		<0.016	<0.016	<0.016

Less than LOD
Concentration Exceeds Threshold

GAC Sources:

Groundwater Threshold Value 2016
Groundwater Threshold Value 2010
Surface Water Standards (2019)
Surface Water Standard (2009)
Drinking Water Standards (2014)