

Reporting of leachate monitoring for the period from 01-Oct-2022 to 31-Dec-2022

Monitoring location	Substance / parameter ⁽⁶⁾	Test method ⁽²⁾	Date ⁽³⁾	Compliance limit ⁽⁷⁾	Result ^{(1) (4)}	Unit ⁽⁵⁾
Cell 1/2 Sump	Base of well/borehole/sump	Field	24/10/2022		14.65	m
			07/11/2022		14.65	m
			12/12/2022		14.65	m
	Groundwater level/dip		24/10/2022		14.31	m
			07/11/2022		14	m
			12/12/2022		14.1	m
	Leachate level above base of sump/pit base		24/10/2022	3m above base	0.34	m
			07/11/2022	3m above base	0.65	m
			12/12/2022	3m above base	0.55	m
	Total Alkalinity as CaCO3	TM043	24/10/2022		8460	mg/l
	Biological oxygen demand	TM045	24/10/2022		124	mg/l
	Total organic carbon	TM090	24/10/2022		803	mg/l
	Ammoniacal Nitrogen as N	TM099	24/10/2022	<3,640 mg/l	2460	mg/l
			08/11/2022	<3,640 mg/l	157	mg/l
			12/12/2022	<3,640 mg/l	73.3	mg/l
	Chemical oxygen demand (unfiltered)	TM107	24/10/2022		2830	mg/l
	Cadmium (filtered)	TM152	24/10/2022	<0.105 mg/l	0.00047	mg/l
	Calcium (filtered)		24/10/2022		29.4	mg/l
	Chromium (filtered)		24/10/2022		0.163	mg/l
	Copper (filtered)		24/10/2022		0.016	mg/l
	Iron (filtered)		24/10/2022		4.13	mg/l
	Lead (filtered)		24/10/2022		0.0126	mg/l

Monitoring location	Substance / parameter ⁽⁶⁾	Test method ⁽²⁾	Date ⁽³⁾	Compliance limit ⁽⁷⁾	Result ⁽¹⁾ ⁽⁴⁾	Unit ⁽⁵⁾
Cell 1/2 Sump	Magnesium (filtered)	TM152	24/10/2022		56.2	mg/l
	Manganese (filtered)		24/10/2022		0.0878	mg/l
	Nickel (filtered)		24/10/2022		0.306	mg/l
	Potassium (filtered)		24/10/2022		2760	mg/l
	Sodium (filtered)		24/10/2022		4200	mg/l
	Zinc (filtered)		24/10/2022		0.105	mg/l
	4-Methylphenol	TM176	24/10/2022	<1.6 mg/l	<0.01	mg/l
	Diethyl phthalate		24/10/2022	<0.44 mg/l	<0.01	mg/l
	Chloride	TM184	24/10/2022	<19,000 mg/l	11700	mg/l
			08/11/2022	<19,000 mg/l	2380	mg/l
			12/12/2022	<19,000 mg/l	1520	mg/l
	Sulphate		24/10/2022		<20	mg/l
	Total Oxidised Nitrogen as N		24/10/2022		1.82	mg/l
	Dichloromethane	TM208	24/10/2022	<0.033 mg/l	<0.0035	mg/l
	Electrical conductivity @20°C (lab)	TM256	24/10/2022		37200	µS/cm
			08/11/2022		7530	µS/cm
			12/12/2022		5060	µS/cm
	Mecoprop	TM411	24/10/2022	<0.071 mg/l	0.0986	mg/l
Cell 3/4 Sump	Base of well/borehole/sump	Field	24/10/2022		10.96	m
			07/11/2022		10.96	m
			12/12/2022		10.96	m
	Groundwater level/dip		24/10/2022		10.56	m
			07/11/2022		10.01	m
			12/12/2022		10.26	m
	Leachate level above base of sump/pit base		24/10/2022	2.8m above base	0.4	m
			07/11/2022	2.8m above base	0.95	m
			12/12/2022	2.8m above base	0.7	m
	Total Alkalinity as CaCO3	TM043	24/10/2022		4210	mg/l
	Biological oxygen demand	TM045	24/10/2022		95.7	mg/l

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Cell 3/4 Sump	Total organic carbon	TM090	24/10/2022		407	mg/l
	Ammoniacal Nitrogen as N	TM099	24/10/2022	<3,640 mg/l	879	mg/l
			08/11/2022	<3,640 mg/l	774	mg/l
			12/12/2022	<3,640 mg/l	642	mg/l
	Chemical oxygen demand (unfiltered)	TM107	24/10/2022		1100	mg/l
	Cadmium (filtered)	TM152	24/10/2022	<0.105 mg/l	0.000116	mg/l
	Calcium (filtered)		24/10/2022		116	mg/l
	Chromium (filtered)		24/10/2022		0.0903	mg/l
	Copper (filtered)		24/10/2022		0.00795	mg/l
	Iron (filtered)		24/10/2022		5.02	mg/l
	Lead (filtered)		24/10/2022		0.00137	mg/l
	Magnesium (filtered)		24/10/2022		48.9	mg/l
	Manganese (filtered)		24/10/2022		1.13	mg/l
	Nickel (filtered)		24/10/2022		0.139	mg/l
	Potassium (filtered)		24/10/2022		691	mg/l
	Sodium (filtered)		24/10/2022		1250	mg/l
	Zinc (filtered)		24/10/2022		0.0308	mg/l
	4-Methylphenol	TM176	24/10/2022	<1.6 mg/l	<0.01	mg/l
	Diethyl phthalate		24/10/2022	<0.44 mg/l	<0.01	mg/l
	Chloride	TM184	24/10/2022	<19,000 mg/l	1460	mg/l
			08/11/2022	<19,000 mg/l	1450	mg/l
			12/12/2022	<19,000 mg/l	1430	mg/l
	Sulphate		24/10/2022		94.9	mg/l
	Total Oxidised Nitrogen as N		24/10/2022		6.34	mg/l
	Dichloromethane	TM208	24/10/2022	<0.033 mg/l	<0.004	mg/l
	Electrical conductivity @20°C (lab)	TM256	24/10/2022		10600	µS/cm
			08/11/2022		9460	µS/cm
			12/12/2022		8700	µS/cm
	Mecoprop	TM411	24/10/2022	<0.071 mg/l	0.0202	mg/l

Monitoring location	Substance / parameter ⁽⁶⁾	Test method ⁽²⁾	Date ⁽³⁾	Compliance limit ⁽⁷⁾	Result ^{(1) (4)}	Unit ⁽⁵⁾
Cell 5 Sump	Base of well/borehole/sump	Field	24/10/2022		5.98	m
			07/11/2022		5.98	m
			12/12/2022		5.98	m
	Groundwater level/dip		24/10/2022		5.69	m
			07/11/2022		5.36	m
			12/12/2022		5.39	m
	Leachate level above base of sump/pit base		24/10/2022	2m above base	0.29	m
			07/11/2022	2m above base	0.62	m
			12/12/2022	2m above base	0.59	m
	Total Alkalinity as CaCO3	TM043	24/10/2022		4520	mg/l
	Biological oxygen demand	TM045	24/10/2022		57.7	mg/l
	Total organic carbon	TM090	24/10/2022		436	mg/l
	Ammoniacal Nitrogen as N	TM099	24/10/2022	<3,640 mg/l	1150	mg/l
			08/11/2022	<3,640 mg/l	936	mg/l
			12/12/2022	<3,640 mg/l	515	mg/l
	Chemical oxygen demand (unfiltered)	TM107	24/10/2022		1280	mg/l
	Cadmium (filtered)	TM152	24/10/2022	<0.105 mg/l	0.000142	mg/l
	Calcium (filtered)		24/10/2022		95.9	mg/l
	Chromium (filtered)		24/10/2022		0.0856	mg/l
	Copper (filtered)		24/10/2022		0.00888	mg/l
	Iron (filtered)		24/10/2022		4.66	mg/l
	Lead (filtered)		24/10/2022		0.00329	mg/l
	Magnesium (filtered)		24/10/2022		122	mg/l
	Manganese (filtered)		24/10/2022		0.664	mg/l
	Nickel (filtered)		24/10/2022		0.126	mg/l
	Potassium (filtered)		24/10/2022		2180	mg/l
	Sodium (filtered)		24/10/2022		2540	mg/l
	Zinc (filtered)		24/10/2022		0.0962	mg/l
	4-Methylphenol	TM176	24/10/2022	<0.126 mg/l	<0.01	mg/l

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Cell 5 Sump	Diethyl phthalate	TM176	24/10/2022	<0.36 mg/l	<0.01	mg/l
	Chloride	TM184	24/10/2022	<19,000 mg/l	6460	mg/l
			08/11/2022	<19,000 mg/l	7080	mg/l
			12/12/2022	<19,000 mg/l	5570	mg/l
	Sulphate		24/10/2022		<4	mg/l
	Total Oxidised Nitrogen as N		24/10/2022		0.697	mg/l
	Dichloromethane	TM208	24/10/2022	<0.066 mg/l	<0.0035	mg/l
	Electrical conductivity @20°C (lab)	TM256	24/10/2022		23800	µS/cm
			08/11/2022		21700	µS/cm
			12/12/2022		18000	µS/cm
	Mecoprop	TM411	24/10/2022	<0.14 mg/l	0.0289	mg/l
Cell 6 Sump	Base of well/borehole/sump	Field	24/10/2022		25.52	m
			07/11/2022		25.62	m
			12/12/2022		25.62	m
	Groundwater level/dip		24/10/2022		24.32	m
			07/11/2022		24.25	m
			12/12/2022		24.68	m
	Leachate level above base of sump/pit base		24/10/2022	1.5m above base	1.2	m
			07/11/2022	1.5m above base	1.37	m
			12/12/2022	1.5m above base	0.94	m
	Total Alkalinity as CaCO3	TM043	24/10/2022		4470	mg/l
	Biological oxygen demand	TM045	24/10/2022		109	mg/l
	Total organic carbon	TM090	24/10/2022		450	mg/l
	Ammoniacal Nitrogen as N	TM099	24/10/2022	<3,640 mg/l	883	mg/l
			08/11/2022	<3,640 mg/l	107	mg/l
			12/12/2022	<3,640 mg/l	102	mg/l
	Chemical oxygen demand (unfiltered)	TM107	24/10/2022		1330	mg/l
	Cadmium (filtered)	TM152	24/10/2022	<0.105 mg/l	<0.00008	mg/l
	Calcium (filtered)		24/10/2022		62.7	mg/l

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Cell 6 Sump	Chromium (filtered)	TM152	24/10/2022		0.142	mg/l
	Copper (filtered)		24/10/2022		0.00291	mg/l
	Iron (filtered)		24/10/2022		6.57	mg/l
	Lead (filtered)		24/10/2022		0.00132	mg/l
	Magnesium (filtered)		24/10/2022		46.9	mg/l
	Manganese (filtered)		24/10/2022		0.327	mg/l
	Nickel (filtered)		24/10/2022		0.0979	mg/l
	Potassium (filtered)		24/10/2022		425	mg/l
	Sodium (filtered)		24/10/2022		1140	mg/l
	Zinc (filtered)		24/10/2022		0.0285	mg/l
	4-Methylphenol	TM176	24/10/2022	<0.126 mg/l	<0.02	mg/l
	Diethyl phthalate		24/10/2022	<0.36 mg/l	<0.02	mg/l
	Chloride	TM184	24/10/2022	<19,000 mg/l	1280	mg/l
			08/11/2022	<19,000 mg/l	1290	mg/l
			12/12/2022	<19,000 mg/l	1100	mg/l
	Sulphate		24/10/2022		62.1	mg/l
	Total Oxidised Nitrogen as N		24/10/2022		<0.2	mg/l
	Dichloromethane	TM208	24/10/2022	<0.066 mg/l	<0.0035	mg/l
	Electrical conductivity @20°C (lab)	TM256	24/10/2022		10400	µS/cm
Cell 7 Sump			08/11/2022		6270	µS/cm
			12/12/2022		5670	µS/cm
	Mecoprop	TM411	24/10/2022	<0.14 mg/l	0.00944	mg/l
	Base of well/borehole/sump	Field	24/10/2022		26.35	m
			07/11/2022		26.35	m
			12/12/2022		26.35	m
	Groundwater level/dip		24/10/2022		25.83	m
			07/11/2022		25.38	m
			12/12/2022		25.42	m
	Leachate level above base of sump/pit base		24/10/2022	1.5m above base	0.52	m

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Cell 7 Sump	Leachate level above base of sump/pit base	Field	07/11/2022	1.5m above base	0.97	m
			12/12/2022	1.5m above base	0.93	m
			24/10/2022		5010	mg/l
	Total Alkalinity as CaCO3	TM043	24/10/2022		204	mg/l
	Biological oxygen demand	TM045	24/10/2022		586	mg/l
	Total organic carbon	TM090	24/10/2022		1050	mg/l
	Ammoniacal Nitrogen as N	TM099	24/10/2022	<3,640 mg/l	553	mg/l
			08/11/2022	<3,640 mg/l	195	mg/l
			12/12/2022	<3,640 mg/l	1690	mg/l
	Chemical oxygen demand (unfiltered)	TM107	24/10/2022		<0.00008	mg/l
	Cadmium (filtered)	TM152	24/10/2022	<0.105 mg/l	35.8	mg/l
	Calcium (filtered)		24/10/2022		0.114	mg/l
	Chromium (filtered)		24/10/2022		0.000726	mg/l
	Copper (filtered)		24/10/2022		0.699	mg/l
	Iron (filtered)		24/10/2022		0.000382	mg/l
	Lead (filtered)		24/10/2022		24.6	mg/l
	Magnesium (filtered)		24/10/2022		0.403	mg/l
	Manganese (filtered)		24/10/2022		0.0677	mg/l
	Nickel (filtered)		24/10/2022		503	mg/l
	Potassium (filtered)		24/10/2022		1230	mg/l
	Sodium (filtered)		24/10/2022		0.00751	mg/l
	Zinc (filtered)		24/10/2022		0.104	mg/l
	4-Methylphenol	TM176	24/10/2022	<0.126 mg/l	<0.02	mg/l
	Diethyl phthalate		24/10/2022	<0.36 mg/l	1440	mg/l
	Chloride	TM184	24/10/2022	<19,000 mg/l	1420	mg/l
			08/11/2022	<19,000 mg/l	1640	mg/l
			12/12/2022	<19,000 mg/l	187	mg/l
	Sulphate		24/10/2022		<0.5	mg/l
	Total Oxidised Nitrogen as N		24/10/2022		<0.0035	mg/l
	Dichloromethane	TM208	24/10/2022	<0.066 mg/l		

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Cell 7 Sump	Electrical conductivity @20°C (lab)	TM256	24/10/2022		12200	µS/cm
			08/11/2022		9220	µS/cm
			12/12/2022		8200	µS/cm
Leachate Holding Lagoon	Mecoprop	TM411	24/10/2022	<0.14 mg/l	0.011	mg/l
	Base of well/borehole/sump	Field	24/10/2022		8.5	m
			07/11/2022		8.5	m
	Groundwater level/dip		12/12/2022		8.5	m
			24/10/2022		7	m
			07/11/2022		6.5	m
			12/12/2022		7.2	m
			24/10/2022		5580	mg/l
	Total Alkalinity as CaCO3	TM043	24/10/2022		5580	mg/l
	Biological oxygen demand	TM045	24/10/2022		64.8	mg/l
	Total organic carbon	TM090	24/10/2022		525	mg/l
	Ammoniacal Nitrogen as N	TM099	24/10/2022	<3,640 mg/l	1320	mg/l
			08/11/2022	<3,640 mg/l	1330	mg/l
			12/12/2022	<3,640 mg/l	1310	mg/l
	Chemical oxygen demand (unfiltered)	TM107	24/10/2022		2460	mg/l
	Cadmium (filtered)	TM152	24/10/2022		<0.00008	mg/l
	Calcium (filtered)		24/10/2022		92.8	mg/l
	Chromium (filtered)		24/10/2022		0.138	mg/l
	Copper (filtered)		24/10/2022		0.00181	mg/l
	Iron (filtered)		24/10/2022		1.37	mg/l
	Lead (filtered)		24/10/2022		0.00104	mg/l
	Magnesium (filtered)		24/10/2022		90.6	mg/l
	Manganese (filtered)		24/10/2022		0.783	mg/l
	Nickel (filtered)		24/10/2022		0.162	mg/l
	Potassium (filtered)		24/10/2022		1530	mg/l
	Sodium (filtered)		24/10/2022		2510	mg/l
	Zinc (filtered)		24/10/2022		0.0249	mg/l

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Leachate Holding Lagoon	4-Methylphenol	TM176	24/10/2022		<0.02	mg/l
	Diethyl phthalate		24/10/2022		<0.02	mg/l
	Chloride	TM184	24/10/2022	<19,000 mg/l	5200	mg/l
			08/11/2022	<19,000 mg/l	5340	mg/l
			12/12/2022	<19,000 mg/l	5030	mg/l
	Sulphate		24/10/2022		<4	mg/l
	Total Oxidised Nitrogen as N		24/10/2022		<0.5	mg/l
	Dichloromethane	TM208	24/10/2022		<0.0035	mg/l
	Electrical conductivity @20°C (lab)	TM256	24/10/2022		21700	µS/cm
			08/11/2022		22000	µS/cm
LMP5a			12/12/2022		21400	µS/cm
	Mecoprop	TM411	24/10/2022		0.0277	mg/l
	Base of well/borehole/sump	Field	24/10/2022		8.5	m
			07/11/2022		8.5	m
			12/12/2022		8.5	m
	Groundwater level/dip		24/10/2022		DRY	m
			07/11/2022		DRY	m
			12/12/2022		DRY	m
	Leachate level above base of sump/pit base		24/10/2022	1.5m above base	0	m
			07/11/2022	1.5m above base	0	m
LMP5b			12/12/2022	1.5m above base	0	m
	Base of well/borehole/sump		24/10/2022		6.8	m
			07/11/2022		6.8	m
			12/12/2022		6.8	m
	Groundwater level/dip		24/10/2022		DRY	m
			07/11/2022		DRY	m
			12/12/2022		DRY	m
	Leachate level above base of sump/pit base		24/10/2022	1.5m above base	0	m
			07/11/2022	1.5m above base	0	m

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LMP5b	Leachate level above base of sump/pit base	Field	12/12/2022	1.5m above base	0	m
LMP6a	Base of well/borehole/sump		24/10/2022		10.97	m
			07/11/2022		10.97	m
			12/12/2022		10.97	m
	Groundwater level/dip		24/10/2022		DRY	m
			07/11/2022		DRY	m
			12/12/2022		DRY	m
	Leachate level above base of sump/pit base		24/10/2022	1.5m above base	0	m
			07/11/2022	1.5m above base	0	m
			12/12/2022	1.5m above base	0	m
LMP7a	Base of well/borehole/sump		24/10/2022		10.48	m
			07/11/2022		10.48	m
			12/12/2022		10.48	m
	Groundwater level/dip		24/10/2022		10.27	m
			07/11/2022		10.06	m
			12/12/2022		10.22	m
	Leachate level above base of sump/pit base		24/10/2022	1.5m above base	0.21	m
			07/11/2022	1.5m above base	0.42	m
			12/12/2022	1.5m above base	0.26	m
LMP7b	Base of well/borehole/sump		24/10/2022		4	m
			07/11/2022		4	m
			12/12/2022		4	m
	Groundwater level/dip		24/10/2022		3.92	m
			07/11/2022		3.9	m
			12/12/2022		3.82	m
	Leachate level above base of sump/pit base		24/10/2022	1.5m above base	0.08	m
			07/11/2022	1.5m above base	0.1	m
			12/12/2022	1.5m above base	0.18	m
M1A	Base of well/borehole/sump		24/10/2022		16.4	m

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M1A	Base of well/borehole/sump	Field	07/11/2022		16.4	m
			12/12/2022		16.4	m
			24/10/2022		16.31	m
	Groundwater level/dip		07/11/2022		16.32	m
			12/12/2022		16	m
			24/10/2022	2m above base	0.09	m
	Leachate level above base of sump/pit base		07/11/2022	2m above base	0.08	m
			12/12/2022	2m above base	0.4	m
			24/10/2022		10.64	m
M1B	Base of well/borehole/sump		07/11/2022		10.64	m
			12/12/2022		10.64	m
			24/10/2022		10.62	m
	Groundwater level/dip		07/11/2022		10.6	m
			12/12/2022		10.38	m
			24/10/2022	2m above base	0.02	m
	Leachate level above base of sump/pit base		07/11/2022	2m above base	0.04	m
			12/12/2022	2m above base	0.26	m
			24/10/2022		19.1	m
M2A	Base of well/borehole/sump		07/11/2022		19.1	m
			12/12/2022		19.1	m
			24/10/2022		DRY	m
	Groundwater level/dip		07/11/2022		DRY	m
			12/12/2022		DRY	m
			24/10/2022	2m above base	0	m
	Leachate level above base of sump/pit base		07/11/2022	2m above base	0	m
			12/12/2022	2m above base	0	m
			24/10/2022		19.8	m
M2B	Base of well/borehole/sump		07/11/2022		19.8	m
			12/12/2022		19.8	m

Monitoring location	Substance / parameter ⁽⁶⁾	Test method ⁽²⁾	Date ⁽³⁾	Compliance limit ⁽⁷⁾	Result ^{(1) (4)}	Unit ⁽⁵⁾
M2B	Groundwater level/dip	Field	24/10/2022		19.68	m
			07/11/2022		DRY	m
			12/12/2022		19.62	m
	Leachate level above base of sump/pit base		24/10/2022	2m above base	0.12	m
			07/11/2022	2m above base	0	m
			12/12/2022	2m above base	0.18	m
M3A	Base of well/borehole/sump		24/10/2022		21.5	m
			07/11/2022		21.5	m
			12/12/2022		21.5	m
	Groundwater level/dip		24/10/2022		21.4	m
			07/11/2022		21.36	m
			12/12/2022		21.28	m
	Leachate level above base of sump/pit base		24/10/2022	1.8m above base	0.1	m
			07/11/2022	1.8m above base	0.14	m
			12/12/2022	1.8m above base	0.22	m
M3B	Base of well/borehole/sump		24/10/2022		15.58	m
			07/11/2022		15.58	m
			12/12/2022		15.58	m
	Groundwater level/dip		24/10/2022		DRY	m
			07/11/2022		DRY	m
			12/12/2022		15.41	m
	Leachate level above base of sump/pit base		24/10/2022	1.8m above base	0	m
			07/11/2022	1.8m above base	0	m
			12/12/2022	1.8m above base	0.17	m
M4A	Base of well/borehole/sump		24/10/2022		18.6	m
			07/11/2022		18.6	m
			12/12/2022		18.6	m
	Groundwater level/dip		24/10/2022		18.52	m
			07/11/2022		18.49	m

Monitoring location	Substance / parameter ⁽⁶⁾	Test method ⁽²⁾	Date ⁽³⁾	Compliance limit ⁽⁷⁾	Result ^{(1) (4)}	Unit ⁽⁵⁾
M4A	Groundwater level/dip	Field	12/12/2022		18.42	m
	Leachate level above base of sump/pit base		24/10/2022	1.8m above base	0.08	m
			07/11/2022	1.8m above base	0.11	m
			12/12/2022	1.8m above base	0.18	m
M4B	Base of well/borehole/sump		24/10/2022		16.9	m
			07/11/2022		16.9	m
			12/12/2022		16.9	m
	Groundwater level/dip		24/10/2022		DRY	m
			07/11/2022		16.81	m
			12/12/2022		16.84	m
	Leachate level above base of sump/pit base		24/10/2022	1.8m above base	0	m
			07/11/2022	1.8m above base	0.09	m
			12/12/2022	1.8m above base	0.06	m

(1) The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.

(2) Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, e.g. gas chromatography.

(3) For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.

(4) The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated; refer to laboratory data sheets for specific uncertainty.

(5) Depths reported as metres (m) are metres below ground level unless are labelled as leachate head above base of sump.

(6) For details of the sampling method, frequency and parameters measured / analysed for, refer to the site Environmental Monitoring Management Plan (EMMP).

(7) Where blank, there is no defined compliance limit specified for the monitoring location / parameter.

Signature: 

Date: 04 January 2023

(Authorised to sign as representative of
Operator)