

Pollutant Monitoring Results Groundwater

Environmental Protection Licence Number:

5065

Licensee Name:

Lucas Heights Resource Recovery Park

Facility Address:

New Illawarra Rd Lucas Heights, NSW 2234

A copy of the full licence can be found on the POEO Public Register
<http://www.epa.nsw.gov.au/prpoeoapp/>

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www.epa.nsw.gov.au

Sampling Point as per Licence	Pollutant	Unit of measure ²	Monitoring Frequency Required by Licence	17-18/9/2024	18-19/12/2024	18/03/2025	9/05/2025	No. of samples required	No. of samples collected and analysed	Pollutant Limit	Exceedance (Y/N)	Min	Max	Average	Comments
MB008 (EPA ID 4)	Total Alkalinity (Carbonate and Bicarbonate)	mg/L	Quarterly	30	95	22	19	4	4	N/A	N	19	95	41.5	
	Aluminium	µg/L	Yearly			<10		1	0	N/A	N	<10	<10	<10	
	Arsenic	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Barium	µg/L	Yearly			180		1	1	N/A	N	180	180	180	
	Benzene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Benzo(a)pyrene	µg/L	Yearly			<0.1		1	0	N/A	N	<0.1	<0.1	<0.1	
	Bicarbonate Alkalinity	mg/L	Quarterly	30	95	22	19	4	4	N/A	N	19	95	41.5	
	Cadmium	µg/L	Yearly			<0.1		1	0	N/A	N	<0.1	<0.1	<0.1	
	Calcium (II) Ion	mg/L	Quarterly	5	38	3	3	4	4	N/A	N	3	38	12.25	
	Chloride	mg/L	Quarterly	79	140	67	65	4	4	N/A	N	65	140	87.75	
	Chromium (Hexavalent)	mg/L	Yearly			<0.005		1	0	N/A	N	<0.005	<0.005	<0.005	
	Chromium (Total)	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Cobalt	µg/L	Yearly			1		1	1	N/A	N	1	1	1	
	Copper	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Ethylbenzene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Fluoride	mg/L	Yearly			<0.1		1	0	N/A	N	<0.1	<0.1	<0.1	
	Lead	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Magnesium (II) Ion	mg/L	Quarterly	12	5.4	9	8.9	4	4	N/A	N	5.4	12	8.825	
	Manganese	µg/L	Yearly			89		1	1	N/A	N	89	89	89	
	Mercury	µg/L	Yearly			<0.05		1	0	N/A	N	<0.05	<0.05	<0.05	
	Nickel	µg/L	Yearly			4		1	1	N/A	N	4	4	4	
	Nitrate as N in water	mg/L	Quarterly	0.072	0.12	0.02	0.22	4	4	N/A	N	0.02	0.22	0.108	
	Nitrite as N in water	mg/L	Quarterly	<0.005	0.008	<0.005	<0.005	4	1	N/A	N	0.008	0.008	0.008	
	Ammonia as N	mg/L	Quarterly	0.014	0.4	0.01	0.007	4	4	1mg/L	N	0.007	0.4	0.10775	
	OCF	µg/L	Yearly			<0.2		1	0	N/A	N	<0.2	<0.2	<0.2	
	OPP	µg/L	Yearly			<0.2		1	0	N/A	N	<0.2	<0.2	<0.2	
	PCBs	µg/L	Yearly			<2		1	0	N/A	N	<2	<2	<2	
	pH (field)	pH units	Quarterly	4.84	3.89	5.58	5.21	4	4	N/A	N	3.89	5.58	4.88	
	Phosphorus	mg/L	Quarterly	<0.05	<0.05	<0.05	0.2	4	1	N/A	N	<0.05	<0.05	<0.05	
	PAH	µg/L	Yearly			<0.1		1	0	N/A	N	<0.1	<0.1	<0.1	
	Potassium (I) Ion	mg/L	Quarterly	2	4	1	1	4	4	N/A	N	1	4	2	
	Redox (field)	mV	Quarterly	239	229	238.5	-111.4	4	4	N/A	N	-111.4	239	148.775	
	Selenium	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Sodium (Na)	mg/L	Quarterly	39	83	34	38	4	4	N/A	N	34	83	48.5	
	Standing Water Level	mBTOC	Quarterly	14.02	13.9	14.3	13.81	4	4	N/A	N	13.81	14.3	14.0075	
	Sulphate	mg/L	Quarterly	20	16	7	6	4	4	N/A	N	6	20	12.25	
	Temperature (field)	deg c	Quarterly	18	18.3	19.5	19.1	4	4	N/A	N	18	19.5	18.725	
	Tetrachloroethene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Toluene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Total Dissolved Solids	mg/L	Quarterly	170	360	160	150	4	4	N/A	N	150	360	210	
	Total Organic Carbon	mg/L	Quarterly	130	3	6	12	4	4	N/A	N	3	130	37.75	
	TPH	µg/L	Yearly			<10		1	0	N/A	N	<10	<10	<10	
	Total Phenolics	mg/L	Yearly			<0.05		1	0	N/A	N	<0.05	<0.05	<0.05	
	Trichloroethene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Xylenes	µg/L	Yearly			<2		1	0	N/A	N	<2	<2	<2	
	Zinc	µg/L	Yearly			21		1	1	N/A	N	21	21	21	
MB023 (EPA ID 44)	Total Alkalinity (Carbonate and Bicarbonate)	mg/L	Quarterly	82	64	77	87	4	4	N/A	N	64	87	77.5	
	Aluminium	µg/L	Yearly			680		1	1	N/A	N	680	680	680	
	Arsenic	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Barium	µg/L	Yearly			8		1	1	N/A	N	8	8	8	
	Benzene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Benzo(a)pyrene	µg/L	Yearly			<0.1		1	0	N/A	N	<0.1	<0.1	<0.1	
	Bicarbonate Alkalinity	mg/L	Quarterly	82	64	77	87	4	4	N/A	N	64	87	77.5	
	Cadmium	µg/L	Yearly			2.5		1	1	N/A	N	2.5	2.5	2.5	
	Calcium (II) Ion	mg/L	Quarterly	18	17	14	15	4	4	N/A	N	14	18	16	
	Chloride	mg/L	Quarterly	1600	1600	1300	1100	4	4	N/A	N	1100	1600	1400	
	Chromium (Hexavalent)	mg/L	Yearly			<0.005		1	0	N/A	N	<0.005	<0.005	<0.005	
	Chromium (Total)	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Cobalt	µg/L	Yearly			260		1	1	N/A	N	260	260	260	
	Copper	µg/L	Yearly			1		1	1	N/A	N	1	1	1	
	Ethylbenzene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Fluoride	mg/L	Yearly			3		1	1	N/A	N	3	3	3	
	Lead	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Magnesium (II) Ion	mg/L	Quarterly	95	90	75	75	4	4	N/A	N	75	95	83.75	
	Manganese	µg/L	Yearly			9200		1	1	N/A	N	9200	9200	9200	
	Mercury	µg/L	Yearly			<0.05		1	0	N/A	N	<0.05	<0.05	<0.05	
	Nickel	µg/L	Yearly			170		1	1	N/A	N	170	170	170	
	Nitrate as N in water	mg/L	Quarterly	0.03	0.007	0.006	<0.005	4	3	N/A	N	0.006	0.03	0.014333333	
	Nitrite as N in water	mg/L	Quarterly	<0.005	<0.005	<0.005	<0.005	4	0	N/A	N	<0.005	<0.005	<0.005	
	Ammonia as N	mg/L	Quarterly	0.1	0.062	0.11	0.13	4	4	1mg/L	N	0.062	0.13	0.1005	
	OCF	µg/L	Yearly			<0.2		1	0	N/A	N	<0.2	<0.2	<0.2	
	OPP	µg/L	Yearly			<0.2		1	0	N/A	N	<0.2	<0.2	<0.2	
	PCBs	µg/L	Yearly			<2		1	0	N/A	N	<2	<2	<2	

Sampling Point as per Licence	Pollutant	Unit of measure ²	Monitoring Frequency Required by licence	17-18/9/2024	18-19/12/2024	18/03/2025	9/05/2025	No. of samples required	No. of samples collected and analysed	Pollutant Limit	Exceedance (Y/N)	Min	Max	Average	Comments
MB032 (EPA ID 7)	pH (field)	pH units	Quarterly	5.33	4.68	5.47	5.38	4	4	N/A	N	4.68	5.47	5.215	
	Phosphorus	mg/L	Quarterly	110	6	6.1	24	4	4	N/A	N	6	110	36.525	
	PAH	µg/L	Yearly			<0.1		1	0	N/A	N	<0.1	<0.1	<0.1	
	Potassium (I) Ion	mg/L	Quarterly	24	21	21	20	4	4	N/A	N	20	24	21.5	
	Redox (field)	mV	Quarterly	224	190.8	42.3	83.2	4	4	N/A	N	42.3	224	135.075	
	Selenium	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Sodium (Na)	mg/L	Quarterly	1000	770	890	850	4	4	N/A	N	770	1000	877.5	
	Standing Water Level	mBTOC	Quarterly	6.53	7.1	7.94	7.95	4	4	N/A	N	6.53	7.95	7.38	
	Sulphate	mg/L	Quarterly	270	260	230	210	4	4	N/A	N	210	270	242.5	
	Temperature (field)	deg c	Quarterly	17.2	17.5	18.2	17.6	4	4	N/A	N	17.2	18.2	17.625	
	Tetrachloroethene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Toluene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Total Dissolved Solids	mg/L	Quarterly	2700	2900	2700	2900	4	4	N/A	N	2700	2900	2800	
	Total Organic Carbon	mg/L	Quarterly	40	9	10	10	4	4	N/A	N	9	40	17.25	
	TPH	µg/L	Yearly			<10		1	0	N/A	N	<10	<10	<10	
	Total Phenolics	mg/L	Yearly			<0.05		1	0	N/A	N	<0.05	<0.05	<0.05	
	Trichloroethene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Xylenes	µg/L	Yearly			<2		1	0	N/A	N	<2	<2	<2	
	Zinc	µg/L	Yearly			700		1	1	N/A	N	700	700	700	
	Total Alkalinity (Carbonate and Bicarbonate)	mg/L	Quarterly	40	29	40	44	4	4	N/A	N	29	44	38.25	
	Aluminium	µg/L	Yearly			<10		1	0	N/A	N	<10	<10	<10	
	Arsenic	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Barium	µg/L	Yearly			150		1	1	N/A	N	150	150	150	
	Benzene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Benzo(a)pyrene	µg/L	Yearly			<0.1		1	0	N/A	N	<0.1	<0.1	<0.1	
	Bicarbonate Alkalinity	mg/L	Quarterly	40	29	40	44	4	4	N/A	N	29	44	38.25	
	Cadmium	µg/L	Yearly			<0.1		1	0	N/A	N	<0.1	<0.1	<0.1	
	Calcium (II) Ion	mg/L	Quarterly	6.2	6.8	6	8.6	4	4	N/A	N	6	8.6	6.9	
	Chloride	mg/L	Quarterly	94	86	82	80	4	4	N/A	N	80	94	85.5	
	Chromium (Hexavalent)	mg/L	Yearly			<0.005		1	0	N/A	N	<0.005	<0.005	<0.005	
	Chromium (Total)	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Cobalt	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Copper	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Ethylbenzene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Fluoride	mg/L	Yearly			0.3		1	1	N/A	N	0.3	0.3	0.3	
	Lead	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Magnesium (II) Ion	mg/L	Quarterly	11	12	11	12	4	4	N/A	N	11	12	11.5	
	Manganese	µg/L	Yearly			730		1	1	N/A	N	730	730	730	
	Mercury	µg/L	Yearly			<0.05		1	0	N/A	N	<0.05	<0.05	<0.05	
	Nickel	µg/L	Yearly			3		1	1	N/A	N	3	3	3	
	Nitrate as N in water	mg/L	Quarterly	<0.005	0.02	0.008	0.34	4	3	N/A	N	0.008	0.34	0.126666667	
	Nitrite as N in water	mg/L	Quarterly	<0.005	0.006	<0.005	<0.005	4	1	N/A	N	0.006	0.006	0.006	
	Ammonia as N	mg/L	Quarterly	0.006	0.18	0.024	0.01	4	4	1mg/L	N	0.006	0.18	0.055	
	OCF	µg/L	Yearly			<0.2		1	0	N/A	N	<0.2	<0.2	<0.2	
	OPP	µg/L	Yearly			<0.2		1	0	N/A	N	<0.2	<0.2	<0.2	
	PCBs	µg/L	Yearly			<2		1	0	N/A	N	<2	<2	<2	
	pH (field)	pH units	Quarterly	5.49	4.46	5.64	5.87	4	4	N/A	N	4.46	5.87	5.365	
	Phosphorus	mg/L	Quarterly	0.5	0.4	0.5	0.06	4	4	N/A	N	0.06	0.5	0.365	
	PAH	µg/L	Yearly			<0.1		1	0	N/A	N	<0.1	<0.1	<0.1	
	Potassium (I) Ion	mg/L	Quarterly	2	2	2	3	4	4	N/A	N	2	3	2.25	
	Redox (field)	mV	Quarterly	163	146.4	-57.4	3.4	4	4	N/A	N	-57.4	163	63.85	
	Selenium	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Sodium (Na)	mg/L	Quarterly	49	40	45	53	4	4	N/A	N	40	53	46.75	
	Standing Water Level	mBTOC	Quarterly	11.46	11.4	11.2	12.11	4	4	N/A	N	11.2	12.11	11.5425	
	Sulphate	mg/L	Quarterly	11	11	11	13	4	4	N/A	N	11	13	11.5	
	Temperature (field)	deg c	Quarterly	18.9	18.2	17.9	18.1	4	4	N/A	N	17.9	18.9	18.275	
	Tetrachloroethene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Toluene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Total Dissolved Solids	mg/L	Quarterly	210	210	240	260	4	4	N/A	N	210	260	230	
	Total Organic Carbon	mg/L	Quarterly	2	3	<1	3	4	3	N/A	N	2	3	2.666666667	
	TPH	µg/L	Yearly			<10		1	0	N/A	N	<10	<10	<10	
	Total Phenolics	mg/L	Yearly			<0.05		1	0	N/A	N	<0.05	<0.05	<0.05	
	Trichloroethene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Xylenes	µg/L	Yearly			<2		1	0	N/A	N	<2	<2	<2	
	Zinc	µg/L	Yearly			33		1	1	N/A	N	33	33	33	
MB033 (EPA ID 18)	Total Alkalinity (Carbonate and Bicarbonate)	mg/L	Quarterly	50	43	<5	44	4	3	N/A	N	43	50	45.66666667	MB033 was resampled on 21/2/2025 ³
	Aluminium	µg/L	Yearly			30		1	1	N/A	N	30	30	30	
	Arsenic	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Barium	µg/L	Yearly			170		1	1	N/A	N	170	170	170	
	Benzene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Benzo(a)pyrene	µg/L	Yearly			<0.1		1	0	N/A	N	<0.1	<0.1	<0.1	
	Bicarbonate Alkalinity	mg/L	Quarterly	50	43	<5	44	4	3	N/A	N	43	50	45.66666667	
	Cadmium	µg/L	Yearly			<0.1		1	0	N/A	N	<0.1	<0.1	<0.1	
	Calcium (II) Ion	mg/L	Quarterly	5.2	5	5.4	5.1	4	4	N/A	N	5	5.4	5.175	
	Chloride	mg/L	Quarterly	110	80	81	73	4	4	N/A	N	73	110	86	
	Chromium (Hexavalent)	mg/L	Yearly			<0.005		1	0	N/A	N	<0.005	<0.005	<0.005	
	Chromium (Total)	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Cobalt	µg/L	Yearly			1		1	1	N/A	N	1	1	1	
	Copper	µg/L	Yearly			2		1	1	N/A	N	2	2	2	
	Ethylbenzene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Fluoride	mg/L	Yearly			0.2		1	1	N/A	N	0.2	0.2	0.2	
	Lead	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Magnesium (II) Ion	mg/L	Quarterly	11	9.7	10	11	4	4	N/A	N	9.7	11	10.425	
	Manganese	µg/L	Yearly			740		1	1	N/A	N	740	740	740	
	Mercury	µg/L	Yearly			<0.05		1	0	N/A	N	<0.05	<0.05	<0.05	
	Nickel	µg/L	Yearly			6		1	1	N/A	N	6	6	6	
	Nitrate as N in water	mg/L	Quarterly	<0.005	0.02	0.03	<0.005	4	2	N/A	N	0.02	0.03	0.025	
	Nitrite as N in water	mg/L	Quarterly	<0.005	<0.005	<0.005	<0.005	4	0	N/A	N	<0.005	<0.005	<0.005	
	Ammonia as N	mg/L	Quarterly	<0.005	0.022	0.027	<0.005	4	2	1mg/L	Y	0.022	0.027	0.0245	
	OCF	µg/L	Yearly			<0.2		1	0	N/A	N	<0.2	<0.2	<0.2	
	OPP	µg/L	Yearly			<0.2		1	0	N/A	N	<0.2	<0.2	<0.2	

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MB034 (EPA ID 8)	PCBs	µg/L	Yearly			<2		1	0	N/A	N	<2	<2	<2	
	pH (field)	pH units	Quarterly	5.57	5.65	5.55	5.66	4	4	N/A	N	5.55	5.66	5.6075	
	Phosphorus	mg/L	Quarterly	0.4	0.2	0.09	0.3	4	4	N/A	N	0.09	0.4	0.2475	
	PAH	µg/L	Yearly			<0.1		1	0	N/A	N	<0.1	<0.1	<0.1	
	Potassium (I) Ion	mg/L	Quarterly	2	2	2	2	4	4	N/A	N	2	2	2	
	Redox (field)	mV	Quarterly	135	204	-47.4	29.1	4	4	N/A	N	-47.4	204	80.175	
	Selenium	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Sodium (Na)	mg/L	Quarterly	48	40	45	49	4	4	N/A	N	40	49	45.5	
	Standing Water Level	mbTOC	Quarterly	4.32	3.02	3.5	3.25	4	4	N/A	N	3.02	4.32	3.5225	
	Sulphate	mg/L	Quarterly	8	9	80	5	4	4	N/A	N	5	80	25.5	
	Temperature (field)	deg c	Quarterly	17.1	18.9	17.7	18.4	4	4	N/A	N	17.1	18.9	18.025	
	Tetrachloroethene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Toluene	µg/L	Yearly			4		1	1	N/A	N	4	4	4	
	Total Dissolved Solids	mg/L	Quarterly	220	210	300	240	4	4	N/A	N	210	300	242.5	
	Total Organic Carbon	mg/L	Quarterly	2	2	2	3	4	4	N/A	N	2	3	2.25	
	TPH	µg/L	Yearly			<10		1	0	N/A	N	<10	<10	<10	
	Total Phenolics	mg/L	Yearly			<0.05		1	0	N/A	N	<0.05	<0.05	<0.05	
	Trichloroethene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Xylenes	µg/L	Yearly			<2		1	0	N/A	N	<2	<2	<2	
	Zinc	µg/L	Yearly			170		1	1	N/A	N	170	170	170	
	Total Alkalinity (Carbonate and Bicarbonate)	mg/L	Quarterly	25	<5	20	17	4	3	N/A	N	17	25	20.66666667	
	Aluminium	µg/L	Yearly			<10		1	0	N/A	N	<10	<10	<10	
	Arsenic	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Barium	µg/L	Yearly			170		1	1	N/A	N	170	170	170	
	Benzene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Benzo(a)pyrene	µg/L	Yearly			<0.1		1	0	N/A	N	<0.1	<0.1	<0.1	
	Bicarbonate Alkalinity	mg/L	Quarterly	25	<5	20	17	4	3	N/A	N	17	25	20.66666667	
	Cadmium	µg/L	Yearly			0.2		1	1	N/A	N	0.2	0.2	0.2	
	Calcium (II) Ion	mg/L	Quarterly	2	3	2	2	4	4	N/A	N	2	3	2.25	
	Chloride	mg/L	Quarterly	94	84	79	74	4	4	N/A	N	74	94	82.75	
	Chromium (Hexavalent)	mg/L	Yearly			<0.005		1	0	N/A	N	<0.005	<0.005	<0.005	
	Chromium (Total)	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Cobalt	µg/L	Yearly			5		1	1	N/A	N	5	5	5	
	Copper	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Ethylbenzene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Fluoride	mg/L	Yearly			<0.1		1	0	N/A	N	<0.1	<0.1	<0.1	
	Lead	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Magnesium (II) Ion	mg/L	Quarterly	7.4	7.8	7.2	7.8	4	4	N/A	N	7.2	7.8	7.55	
	Manganese	µg/L	Yearly			560		1	1	N/A	N	560	560	560	
	Mercury	µg/L	Yearly			<0.05		1	0	N/A	N	<0.05	<0.05	<0.05	
	Nickel	µg/L	Yearly			7		1	1	N/A	N	7	7	7	
	Nitrate as N in water	mg/L	Quarterly	0.006	0.26	<0.005	<0.005	4	2	N/A	N	0.006	0.26	0.133	
	Nitrite as N in water	mg/L	Quarterly	<0.005	0.01	<0.005	<0.005	4	1	N/A	N	0.01	0.01	0.01	
	Ammonia as N	mg/L	Quarterly	0.007	0.84	0.046	<0.005	4	3	1mg/L	N	0.007	0.84	0.2976666667	
	OCP	µg/L	Yearly			<0.2		1	0	N/A	N	<0.2	<0.2	<0.2	
	OPP	µg/L	Yearly			<0.2		1	0	N/A	N	<0.2	<0.2	<0.2	
	PCBs	µg/L	Yearly			<2		1	0	N/A	N	<2	<2	<2	
	pH (field)	pH units	Quarterly	5.12	4.01	5.28	5.15	4	4	N/A	N	4.01	5.28	4.89	
	Phosphorus	mg/L	Quarterly	<0.05	<0.05	<0.05	<0.05	4	0	N/A	N	<0.05	<0.05	<0.05	
	PAH	µg/L	Yearly			<0.1		1	0	N/A	N	<0.1	<0.1	<0.1	
	Potassium (I) Ion	mg/L	Quarterly	0.9	1	0.8	0.9	4	4	N/A	N	0.8	1	0.9	
	Redox (field)	mV	Quarterly	181.7	132	-89	-17.6	4	4	N/A	N	-89	181.7	51.775	
	Selenium	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Sodium (Na)	mg/L	Quarterly	47	39	44	48	4	4	N/A	N	39	48	44.5	
	Standing Water Level	mbTOC	Quarterly	4.06	3.25	3.32	3.56	4	4	N/A	N	3.25	4.06	3.5475	
	Sulphate	mg/L	Quarterly	12	9	17	10	4	4	N/A	N	9	17	12	
	Temperature (field)	deg c	Quarterly	17	19.6	18.8	18.4	4	4	N/A	N	17	19.6	18.45	
	Tetrachloroethene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Toluene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Total Dissolved Solids	mg/L	Quarterly	220	180	200	190	4	4	N/A	N	180	220	197.5	
	Total Organic Carbon	mg/L	Quarterly	1	3	1	6	4	4	N/A	N	1	6	2.75	
	TPH	µg/L	Yearly			<10		1	0	N/A	N	<10	<10	<10	
	Total Phenolics	mg/L	Yearly			<0.05		1	0	N/A	N	<0.05	<0.05	<0.05	
	Trichloroethene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Xylenes	µg/L	Yearly			<2		1	0	N/A	N	<2	<2	<2	
	Zinc	µg/L	Yearly			49		1	1	N/A	N	49	49	49	
	Total Alkalinity (Carbonate and Bicarbonate)	mg/L	Quarterly	<5	<5	6	<5	4	1	N/A	N	6	6	6	
MB035 (EPA ID 19)	Aluminium	µg/L	Yearly			110		1	1	N/A	N	110	110	110	
	Arsenic	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Barium	µg/L	Yearly			120		1	1	N/A	N	120	120	120	
	Benzene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Benzo(a)pyrene	µg/L	Yearly			<0.1		1	0	N/A	N	<0.1	<0.1	<0.1	
	Bicarbonate Alkalinity	mg/L	Quarterly	<5	<5	6	<5	4	1	N/A	N	6	6	6	
	Cadmium	µg/L	Yearly			0.1		1	1	N/A	N	0.1	0.1	0.1	
	Calcium (II) Ion	mg/L	Quarterly	0.8	1	1	0.9	4	4	N/A	N	0.8	1	0.925	
	Chloride	mg/L	Quarterly	89	90	76	73	4	4	N/A	N	73	89	82	
	Chromium (Hexavalent)	mg/L	Yearly			<0.005		1	0	N/A	N	<0.005	<0.005	<0.005	
	Chromium (Total)	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Cobalt	µg/L	Yearly			5		1	1	N/A	N	5	5	5	
	Copper	µg/L	Yearly			6		1	1	N/A	N	6	6	6	
	Ethylbenzene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Fluoride	mg/L	Yearly			<0.1		1	0	N/A	N	<0.1	<0.1	<0.1	
	Lead	µg/L	Yearly			1		1	1	N/A	N	1	1	1	
	Magnesium (II) Ion	mg/L	Quarterly	6.1	6.8	6.2	6.2	4	4	N/A	N	6.1	6.8	6.325	
	Manganese	µg/L	Yearly			270		1	1	N/A	N	270	270	270	
	Mercury	µg/L	Yearly			<0.05		1	0	N/A	N	<0.05	<0.05	<0.05	
	Nickel	µg/L	Yearly			5		1	1	N/A	N	5	5	5	
	Nitrate as N in water	mg/L	Quarterly	<0.005	0.01	<0.005	<0.005	4	1	N/A	N	0.01	0.01	0.01	
	Nitrite as N in water	mg/L	Quarterly	<0.005	<0.005	<0.005	<0.005	4	0	N/A	N	<0.005	<0.005	<0.005	
	Ammonia as N	mg/L	Quarterly	<0.005	0.250	0.27	0.01	4	3	1mg/L	N	0.01	0.27	0.1766666667	
	OCP	µg/L	Yearly			<0.2		1	0	N/A	N	<0.2	<0.2	<0.2	

Sampling Point as per Licence	Pollutant	Unit of measure ²	Monitoring Frequency Required by licence	17-18/9/2024	18-19/12/2024	18/03/2025	9/05/2025	No. of samples required	No. of samples collected and analysed	Pollutant Limit	Exceedance (Y/N)	Min	Max	Average	Comments
MB038 (EPA ID 24)	OPP	µg/L	Yearly			<0.2		1	0	N/A	N	<0.2	<0.2	<0.2	
	PCBs	µg/L	Yearly			<2		1	0	N/A	N	<2	<2	<2	
	pH (field)	pH units	Quarterly	4.09	3.67	4.32	4.14	4	4	N/A	N	3.67	4.32	4.055	
	Phosphorus	mg/L	Quarterly	<0.05	<0.05	<0.05	<0.05	4	0	N/A	N	<0.05	<0.05	<0.05	
	PAH	µg/L	Yearly			<0.1		1	0	N/A	N	<0.1	<0.1	<0.1	
	Potassium (I) Ion	mg/L	Quarterly	1	0.9	0.8	0.9	4	4	N/A	N	0.8	1	0.9	
	Redox (field)	mV	Quarterly	243	175.0	-3.4	119.3	4	4	N/A	N	-3.4	243	133.475	
	Selenium	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Sodium (Na)	mg/L	Quarterly	45	38	41	46	4	4	N/A	N	38	46	42.5	
	Standing Water Level	mBTOC	Quarterly	2.67	2.67	2.71	2.70	4	4	N/A	N	2.67	2.71	2.6875	
	Sulphate	mg/L	Quarterly	17	180	13	10	4	4	N/A	N	10	180	55	
	Temperature (field)	deg c	Quarterly	16.6	18.5	18.6	18.5	4	4	N/A	N	16.6	18.6	18.05	
	Tetrachloroethene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Toluene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Total Dissolved Solids	mg/L	Quarterly	200	200	180	180	4	4	N/A	N	180	200	190	
	Total Organic Carbon	mg/L	Quarterly	1	1	1	4	4	4	N/A	N	1	4	1.75	
	TPH	µg/L	Yearly			<10		1	0	N/A	N	<10	<10	<10	
	Total Phenolics	mg/L	Yearly			<0.05		1	0	N/A	N	<0.05	<0.05	<0.05	
	Trichloroethene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Xylenes	µg/L	Yearly			<2		1	0	N/A	N	<2	<2	<2	
	Zinc	µg/L	Yearly			46		1	1	N/A	N	46	46	46	
	Total Alkalinity (Carbonate and Bicarbonate)	mg/L	Quarterly	<5	<5	<5	<5	4	0	N/A	N	<5	<5	<5	
	Aluminium	µg/L	Yearly			70		1	1	N/A	N	70	70	70	
	Arsenic	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Barium	µg/L	Yearly			150		1	1	N/A	N	150	150	150	
	Benzene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Benzo(a)pyrene	µg/L	Yearly			<0.1		1	0	N/A	N	<0.1	<0.1	<0.1	
	Bicarbonate Alkalinity	mg/L	Quarterly	<5	<5	<5	<5	4	0	N/A	N	<5	<5	<5	
	Cadmium	µg/L	Yearly			<0.1		1	0	N/A	N	<0.1	<0.1	<0.1	
	Calcium (II) Ion	mg/L	Quarterly	1	1	0.9	1	4	4	N/A	N	0.9	1	0.975	
	Chloride	mg/L	Quarterly	150	120	120	120	4	4	N/A	N	120	150	127.5	
	Chromium (Hexavalent)	mg/L	Yearly			<0.005		1	0	N/A	N	<0.005	<0.005	<0.005	
	Chromium (Total)	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Cobalt	µg/L	Yearly			17		1	1	N/A	N	17	17	17	
	Copper	µg/L	Yearly			13		1	1	N/A	N	13	13	13	
	Ethylbenzene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Fluoride	mg/L	Yearly			<0.1		1	0	N/A	N	<0.1	<0.1	<0.1	
	Lead	µg/L	Yearly			1		1	1	N/A	N	1	1	1	
	Magnesium (II) Ion	mg/L	Quarterly	11	12	11	14	4	4	N/A	N	11	14	12	
	Manganese	µg/L	Yearly			640		1	1	N/A	N	640	640	640	
	Mercury	µg/L	Yearly			<0.05		1	0	N/A	N	<0.05	<0.05	<0.05	
	Nickel	µg/L	Yearly			17		1	1	N/A	N	17	17	17	
	Nitrate as N in water	mg/L	Quarterly	0.01	0.02	0.02	0.02	4	4	N/A	N	0.01	0.02	0.0175	
	Nitrite as N in water	mg/L	Quarterly	<0.005	<0.005	<0.005	<0.005	4	0	N/A	N	<0.005	<0.005	<0.005	
	Ammonia as N	mg/L	Quarterly	<0.005	0.18	0.5	<0.005	4	2	1mg/L	N	0.18	0.5	0.34	
	OCF	µg/L	Yearly			<0.2		1	0	N/A	N	<0.2	<0.2	<0.2	
	OPP	µg/L	Yearly			<0.2		1	0	N/A	N	<0.2	<0.2	<0.2	
	PCBs	µg/L	Yearly			<2		1	0	N/A	N	<2	<2	<2	
	pH (field)	pH units	Quarterly	3.74	3.58	3.4	3.63	4	4	N/A	N	3.4	3.74	3.5875	
	Phosphorus	mg/L	Quarterly	0.06	<0.05	<0.05	0.07	4	2	N/A	N	0.06	0.07	0.065	
	PAH	µg/L	Yearly			<0.1		1	0	N/A	N	<0.1	<0.1	<0.1	
	Potassium (I) Ion	mg/L	Quarterly	1	1	0.9	2	4	4	N/A	N	0.9	2	1.225	
	Redox (field)	mV	Quarterly	304	18.2	159.4	195	4	4	N/A	N	18.2	304	169.15	
	Selenium	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Sodium (Na)	mg/L	Quarterly	74	71	66	69	4	4	N/A	N	66	74	70	
	Standing Water Level	mBTOC	Quarterly	23.62	23.84	25.09	25.53	4	4	N/A	N	23.62	25.53	24.52	
	Sulphate	mg/L	Quarterly	9	68	14	11	4	4	N/A	N	9	68	25.5	
	Temperature (field)	deg c	Quarterly	16.6	21.3	18.2	18.6	4	4	N/A	N	16.6	21.3	18.675	
	Tetrachloroethene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Toluene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Total Dissolved Solids	mg/L	Quarterly	300	290	230	270	4	4	N/A	N	230	300	272.5	
	Total Organic Carbon	mg/L	Quarterly	4	4	3	7	4	4	N/A	N	3	7	4.5	
	TPH	µg/L	Yearly			<10		1	0	N/A	N	<10	<10	<10	
	Total Phenolics	mg/L	Yearly			<0.05		1	0	N/A	N	<0.05	<0.05	<0.05	
	Trichloroethene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Xylenes	µg/L	Yearly			<2		1	0	N/A	N	<2	<2	<2	
	Zinc	µg/L	Yearly			160		1	1	N/A	N	160	160	160	
MB039 (EPA ID 25)	Total Alkalinity (Carbonate and Bicarbonate)	mg/L	Quarterly	NL	NL	NL	NL	1	1	N/A	N	0	0	#DIV/0!	
	Aluminium	µg/L	Yearly			NL		1	0	N/A	N	0	0	#DIV/0!	
	Arsenic	µg/L	Yearly			NL		1	0	N/A	N	0	0	#DIV/0!	
	Barium	µg/L	Yearly			NL		1	0	N/A	N	0	0	#DIV/0!	
	Benzene	µg/L	Yearly			NL		1	0	N/A	N	0	0	#DIV/0!	
	Benzo(a)pyrene	µg/L	Yearly			NL		1	0	N/A	N	0	0	#DIV/0!	
	Bicarbonate Alkalinity	mg/L	Quarterly	NL	NL	NL	NL	4	0	N/A	N	0	0	#DIV/0!	
	Cadmium	µg/L	Yearly			NL		1	0	N/A	N	0	0	#DIV/0!	
	Calcium (II) Ion	mg/L	Quarterly	NL	NL	NL	NL	4	0	N/A	N	0	0	#DIV/0!	
	Chloride	mg/L	Quarterly	NL	NL	NL	NL	4	0	N/A	N	0	0	#DIV/0!	
	Chromium (Hexavalent)	mg/L	Yearly			NL		1	0	N/A	N	0	0	#DIV/0!	
	Chromium (Total)	µg/L	Yearly			NL		1	0	N/A	N	0	0	#DIV/0!	
	Cobalt	µg/L	Yearly			NL		1	0	N/A	N	0	0	#DIV/0!	
	Copper	µg/L	Yearly			NL		1	0	N/A	N	0	0	#DIV/0!	
	Ethylbenzene	µg/L	Yearly			NL		1	0	N/A	N	0	0	#DIV/0!	
	Fluoride	mg/L	Yearly			NL		1	0	N/A	N	0	0	#DIV/0!	
	Lead	µg/L	Yearly			NL		1	0	N/A	N	0	0	#DIV/0!	
	Magnesium (II) Ion	mg/L	Quarterly	NL	NL	NL	NL	4	0	N/A	N	0	0	#DIV/0!	
	Manganese	µg/L	Yearly			NL		1	0	N/A	N	0	0	#DIV/0!	
	Mercury	µg/L	Yearly			NL		1	0	N/A	N	0	0	#DIV/0!	
	Nickel	µg/L	Yearly			NL		1	0	N/A	N	0	0	#DIV/0!	
	Nitrate as N in water	mg/L	Quarterly	NL	NL	NL	NL	4	0	N/A	N	0	0	#DIV/0!	
	Nitrite as N in water	mg/L	Quarterly	NL	NL	NL	NL	4	0	N/A	N	0	0	#DIV/0!	
	Ammonia as N	mg/L	Quarterly	NL	NL	NL	NL	4	0	1mg/L	N	0	0	#DIV/0!	

Sampling Point as per Licence	Pollutant	Unit of measure ²	Monitoring Frequency Required by licence	17-18/9/2024	18-19/12/2024	18/03/2025	9/05/2025	No. of samples required	No. of samples collected and analysed	Pollutant Limit	Exceedance (Y/N)	Min	Max	Average	Comments
MB040 (EPA ID 26)	OCF	µg/L	Yearly			NL		1	0	N/A	N	0	0	#DIV/0!	
	OPP	µg/L	Yearly			NL		1	0	N/A	N	0	0	#DIV/0!	
	PCBs	µg/L	Yearly			NL		1	0	N/A	N	0	0	#DIV/0!	
	pH (field)	pH units	Quarterly	NL	NL	NL	NL	4	0	N/A	N	0	0	#DIV/0!	
	Phosphorus	mg/L	Quarterly	NL	NL	NL	NL	4	0	N/A	N	0	0	#DIV/0!	
	PAH	µg/L	Yearly			NL		1	0	N/A	N	0	0	#DIV/0!	
	Potassium (I) Ion	mg/L	Quarterly	NL	NL	NL	NL	4	0	N/A	N	0	0	#DIV/0!	
	Redox (field)	mV	Quarterly	NL	NL	NL	NL	4	0	N/A	N	0	0	#DIV/0!	
	Selenium	µg/L	Yearly			NL		1	0	N/A	N	0	0	#DIV/0!	
	Sodium (Na)	mg/L	Quarterly	NL	NL	NL	NL	4	0	N/A	N	0	0	#DIV/0!	
	Standing Water Level	mBTOC	Quarterly	NL	NL	NL	NL	4	0	N/A	N	0	0	#DIV/0!	
	Sulphate	mg/L	Quarterly	NL	NL	NL	NL	4	0	N/A	N	0	0	#DIV/0!	
	Temperature (field)	deg c	Quarterly	NL	NL	NL	NL	4	0	N/A	N	0	0	#DIV/0!	
	Tetrachloroethene	µg/L	Yearly			NL		1	0	N/A	N	0	0	#DIV/0!	
	Toluene	µg/L	Yearly			NL		1	0	N/A	N	0	0	#DIV/0!	
	Total Dissolved Solids	mg/L	Quarterly	NL	NL	NL	NL	4	0	N/A	N	0	0	#DIV/0!	
	Total Organic Carbon	mg/L	Quarterly	NL	NL	NL	NL	4	0	N/A	N	0	0	#DIV/0!	
	TPH	µg/L	Yearly			NL		1	0	N/A	N	0	0	#DIV/0!	
	Total Phenolics	mg/L	Yearly			NL		1	0	N/A	N	0	0	#DIV/0!	
	Trichloroethene	µg/L	Yearly			NL		1	0	N/A	N	0	0	#DIV/0!	
	Xylenes	µg/L	Yearly			NL		1	0	N/A	N	0	0	#DIV/0!	
	Zinc	µg/L	Yearly			NL		1	0	N/A	N	0	0	#DIV/0!	
	Total Alkalinity (Carbonate and Bicarbonate)	µg/L	Quarterly	9	<5	12	9	4	3	N/A	N	9	12	10	
	Aluminium	µg/L	Yearly			10		1	1	N/A	N	10	10	10	
	Arsenic	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Barium	µg/L	Yearly			150		1	1	N/A	N	150	150	150	
	Benzene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Benzo[a]pyrene	µg/L	Yearly			<0.1		1	0	N/A	N	<0.1	<0.1	<0.1	
	Bicarbonate Alkalinity	mg/L	Quarterly	9	<5	12	9	4	3	N/A	N	9	12	10	
	Cadmium	µg/L	Yearly			0.3		1	1	N/A	N	0.3	0.3	0.3	
	Calcium (II) Ion	mg/L	Quarterly	2	3	2	2	4	4	N/A	N	2	3	2.25	
	Chloride	mg/L	Quarterly	85	73	75	70	4	4	N/A	N	70	85	75.75	
	Chromium (Hexavalent)	mg/L	Yearly			<0.005		1	0	N/A	N	<0.005	<0.005	<0.005	
	Chromium (Total)	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Cobalt	µg/L	Yearly			5		1	1	N/A	N	5	5	5	
	Copper	µg/L	Yearly			8		1	1	N/A	N	8	8	8	
	Ethylbenzene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Fluoride	mg/L	Yearly			<0.1		1	0	N/A	N	<0.1	<0.1	<0.1	
	Lead	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Magnesium (II) Ion	mg/L	Quarterly	6.2	6.4	6.1	6.5	4	4	N/A	N	6.1	6.5	6.3	
	Manganese	µg/L	Yearly			520		1	1	N/A	N	520	520	520	
	Mercury	µg/L	Yearly			<0.05		1	0	N/A	N	<0.05	<0.05	<0.05	
	Nickel	µg/L	Yearly			6		1	1	N/A	N	6	6	6	
	Nitrate as N in water	mg/L	Quarterly	0.05	0.23	0.01	<0.005	4	3	N/A	N	0.01	0.23	0.096666667	
	Nitrite as N in water	mg/L	Quarterly	<0.005	0.008	<0.005	<0.005	4	1	N/A	N	0.008	0.008	0.008	
	Ammonia as N	mg/L	Quarterly	<0.005	0.14	0.88	0.03	4	3	1mg/L	N	0.03	0.88	0.35	
MB041 (EPA ID 27)	OCF	µg/L	Yearly			<0.2		1	0	N/A	N	<0.2	<0.2	<0.2	
	OPP	µg/L	Yearly			<0.2		1	0	N/A	N	<0.2	<0.2	<0.2	
	PCBs	µg/L	Yearly			<2		1	0	N/A	N	<2	<2	<2	
	pH (field)	pH units	Quarterly	5.08	3.75	5	5.3	4	4	N/A	N	3.75	5.3	4.7825	
	Phosphorus	mg/L	Quarterly	0.2	<0.05	0.1	0.3	4	3	N/A	N	0.1	0.3	0.2	
	PAH	µg/L	Yearly			<0.1		1	0	N/A	N	<0.1	<0.1	<0.1	
	Potassium (I) Ion	mg/L	Quarterly	2	1	0.9	2	4	4	N/A	N	0.9	2	1.475	
	Redox (field)	mV	Quarterly	183	26.5	-94	32	4	4	N/A	N	-94	183	36.875	
	Selenium	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Sodium (Na)	mg/L	Quarterly	45	37	42	46	4	4	N/A	N	37	46	42.5	
	Standing Water Level	mBTOC	Quarterly	12.81	12.78	14.18	13.7	4	4	N/A	N	12.78	14.18	13.3675	
	Sulphate	mg/L	Quarterly	17	12	12	11	4	4	N/A	N	11	17	13	
	Temperature (field)	deg c	Quarterly	19.1	19.5	18.3	20.2	4	4	N/A	N	18.3	20.2	19.275	
	Tetrachloroethene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Toluene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Total Dissolved Solids	mg/L	Quarterly	180	160	170	190	4	4	N/A	N	160	190	175	
	Total Organic Carbon	mg/L	Quarterly	4	4	2	5	4	4	N/A	N	2	5	3.75	
	TPH	µg/L	Yearly			<10		1	0	N/A	N	<10	<10	<10	
	Total Phenolics	mg/L	Yearly			<0.05		1	0	N/A	N	<0.05	<0.05	<0.05	
	Trichloroethene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Xylenes	µg/L	Yearly			<2		1	0	N/A	N	<2	<2	<2	
	Zinc	µg/L	Yearly			95		1	1	N/A	N	95	95	95	
	Total Alkalinity (Carbonate and Bicarbonate)	mg/L	Quarterly	<5	NL	NL	NL	4	0	N/A	N	0	0	#DIV/0!	Dry
	Aluminium	µg/L	Yearly			NL		1	0	N/A	N	0	0	#DIV/0!	
	Arsenic	µg/L	Yearly			NL		1	0	N/A	N	0	0	#DIV/0!	
	Barium	µg/L	Yearly			NL		1	0	N/A	N	0	0	#DIV/0!	
	Benzene	µg/L	Yearly			NL		1	0	N/A	N	0	0	#DIV/0!	
	Benzo[a]pyrene	µg/L	Yearly			NL		1	0	N/A	N	0	0	#DIV/0!	
	Bicarbonate Alkalinity	mg/L	Quarterly	<5	NL	NL	NL	4	0	N/A	N	0	0	#DIV/0!	
	Cadmium	µg/L	Yearly			NL		1	0	N/A	N	0	0	#DIV/0!	
	Calcium (II) Ion	mg/L	Quarterly	2	NL	NL	NL	4	1	N/A	N	2	2	2	
	Chloride	mg/L	Quarterly	82	NL	NL	NL	4	1	N/A	N	82	82	82	
	Chromium (Hexavalent)	mg/L	Yearly			NL		1	0	N/A	N	0	0	#DIV/0!	
	Chromium (Total)	µg/L	Yearly			NL		1	0	N/A	N	0	0	#DIV/0!	
	Cobalt	µg/L	Yearly			NL		1	0	N/A	N	0	0	#DIV/0!	
	Copper	µg/L	Yearly			NL		1	0	N/A	N	0	0	#DIV/0!	
	Ethylbenzene	µg/L	Yearly			NL		1	0	N/A	N	0	0	#DIV/0!	
	Fluoride	mg/L	Yearly			NL		1	0	N/A	N	0	0	#DIV/0!	
	Lead	µg/L	Yearly			NL		1	0	N/A	N	0	0	#DIV/0!	
	Magnesium (II) Ion	mg/L	Quarterly	10	NL	NL	NL	4	1	N/A	N	10	10	10	
	Manganese	µg/L	Yearly			NL		1	0	N/A	N	0	0	#DIV/0!	
	Mercury	µg/L	Yearly			NL		1	0	N/A	N	0	0	#DIV/0!	
	Nickel	µg/L	Yearly			NL		1	0	N/A	N	0	0	#DIV/0!	
	Nitrate as N in water	mg/L	Quarterly	0.39	NL	NL	NL	4	1	N/A	N	0.39	0.39	0.39	
	Nitrite as N in water	mg/L	Quarterly	<0.005	NL	NL	NL	4	0	N/A	N	0	0	#DIV/0!	

Sampling Point as per Licence	Pollutant	Unit of measure ²	Monitoring Frequency Required by licence	17-18/9/2024	18-19/12/2024	18/03/2025	9/05/2025	No. of samples required	No. of samples collected and analysed	Pollutant Limit	Exceedance (Y/N)	Min	Max	Average	Comments
MB044 (EPA ID 45)	Ammonia as N	mg/L	Quarterly	0.032	NL	NL	NL	4	1	1mg/L	N	0.032	0.032	0.032	
	OCF	µg/L	Yearly			NL	NL	1	0	N/A	N	0	0	#DIV/0!	
	OPP	µg/L	Yearly			NL	NL	1	0	N/A	N	0	0	#DIV/0!	
	PCBs	µg/L	Yearly			NL	NL	1	0	N/A	N	0	0	#DIV/0!	
	pH (field)	pH units	Quarterly	3.87	NL	NL	NL	4	1	N/A	N	3.87	3.87	3.87	
	Phosphorus	mg/L	Quarterly	<0.05	NL	NL	NL	4	0	N/A	N	0	0	#DIV/0!	
	PAH	µg/L	Yearly			NL	NL	1	0	N/A	N	0	0	#DIV/0!	
	Potassium (I) Ion	mg/L	Quarterly	2	NL	NL	NL	4	1	N/A	N	2	2	2	
	Redox (field)	mV	Quarterly	251	NL	NL	NL	4	1	N/A	N	251	251	251	
	Selenium	µg/L	Yearly			NL	NL	1	0	N/A	N	0	0	#DIV/0!	
	Sodium (Na)	mg/L	Quarterly	50	NL	NL	NL	4	1	N/A	N	50	50	50	
	Standing Water Level	m8TOC	Quarterly	7.32	NL	NL	NL	4	1	N/A	N	7.32	7.32	7.32	
	Sulphate	mg/L	Quarterly	99	NL	NL	NL	4	1	N/A	N	99	99	99	
	Temperature (field)	deg c	Quarterly	19.4	NL	NL	NL	4	1	N/A	N	19.4	19.4	19.4	
	Tetrachloroethene	µg/L	Yearly			NL	NL	1	0	N/A	N	0	0	#DIV/0!	
	Toluene	µg/L	Yearly			NL	NL	1	0	N/A	N	0	0	#DIV/0!	
	Total Dissolved Solids	mg/L	Quarterly	200	NL	NL	NL	4	1	N/A	N	200	200	200	
	Total Organic Carbon	mg/L	Quarterly	4	NL	NL	NL	4	1	N/A	N	4	4	4	
	TPH	µg/L	Yearly			NL	NL	1	0	N/A	N	0	0	#DIV/0!	
	Total Phenolics	mg/L	Yearly			NL	NL	1	0	N/A	N	0	0	#DIV/0!	
	Trichloroethene	µg/L	Yearly			NL	NL	1	0	N/A	N	0	0	#DIV/0!	
	Xylenes	µg/L	Yearly			NL	NL	1	0	N/A	N	0	0	#DIV/0!	
	Zinc	µg/L	Yearly			NL	NL	1	0	N/A	N	0	0	#DIV/0!	
	Total Alkalinity (Carbonate and Bicarbonate)	mg/L	Quarterly	19	<5	21	13	4	3	N/A	N	13	21	17.66666667	
	Aluminium	µg/L	Yearly			<10		1	0	N/A	N	0	0	<10	
	Arsenic	µg/L	Yearly			<1		1	0	N/A	N	0	0	<1	
	Barium	µg/L	Yearly			180		1	0	N/A	N	180	180	180	
	Benzene	µg/L	Yearly			<1		1	0	N/A	N	0	0	<1	
	Benzo(a)pyrene	µg/L	Yearly			<0.1		1	0	N/A	N	0	0	<0.1	
	Bicarbonate Alkalinity	mg/L	Quarterly	19	<5	21	13	4	3	N/A	N	13	21	17.66666667	
	Cadmium	µg/L	Yearly			0.4		1	1	N/A	N	0.4	0.4	0.4	
	Calcium (II) Ion	mg/L	Quarterly	3	3	3	3	4	4	N/A	N	3	3	3	
	Chloride	mg/L	Quarterly	70	78	64	62	4	4	N/A	N	62	78	68.5	
	Chromium (Hexavalent)	µg/L	Yearly			<0.005		1	0	N/A	N	0	0	<0.005	
	Chromium (Total)	µg/L	Yearly			<1		1	0	N/A	N	0	0	<1	
	Cobalt	µg/L	Yearly			3		1	1	N/A	N	3	3	3	
	Copper	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Ethylbenzene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Fluoride	mg/L	Yearly			<0.1		1	0	N/A	N	<0.1	<0.1	<0.1	
	Lead	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Magnesium (II) Ion	mg/L	Quarterly	8.3	8.6	8.2	8.8	4	4	N/A	N	8.2	8.8	8.475	
	Manganese	µg/L	Yearly			190		1	1	N/A	N	190	190	190	
	Mercury	µg/L	Yearly			<0.05		1	0	N/A	N	<0.05	<0.05	<0.05	
	Nickel	µg/L	Yearly			8		1	1	N/A	N	8	8	8	
	Nitrate as N in water	mg/L	Quarterly	0.05	0.02	<0.005	0.01	4	3	N/A	N	0.01	0.05	0.0266666667	
	Nitrite as N in water	mg/L	Quarterly	<0.005	0.014	<0.005	<0.005	4	1	N/A	N	0.014	0.014	0.014	
	Ammonia as N	mg/L	Quarterly	<0.005	0.063	0.05	0.03	4	3	1mg/L	N	0.03	0.063	0.0476666667	
MB044 (EPA ID 45)	OCF	µg/L	Yearly			<0.2		1	0	N/A	N	<0.2	<0.2	<0.2	
	OPP	µg/L	Yearly			<0.2		1	0	N/A	N	<0.2	<0.2	<0.2	
	PCBs	µg/L	Yearly			<2		1	0	N/A	N	<2	<2	<2	
	pH (field)	pH units	Quarterly	5.7	3.8	4.96	5.27	4	4	N/A	N	3.8	5.7	4.9325	
	Phosphorus	mg/L	Quarterly	<0.05	<0.05	<0.05	<0.05	4	0	N/A	N	<0.05	<0.05	<0.05	
	PAH	µg/L	Yearly			<0.1		1	0	N/A	N	<0.1	<0.1	<0.1	
	Potassium (I) Ion	mg/L	Quarterly	1	1	1	2	4	4	N/A	N	1	2	1.25	
	Redox (field)	mV	Quarterly	208.7	234	72.9	48	4	4	N/A	N	48	234	140.9	
	Selenium	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Sodium (Na)	mg/L	Quarterly	34	29	33	36	4	4	N/A	N	29	36	33	
	Standing Water Level	m8TOC	Quarterly	19.13	19.43	19.47	19.43	4	4	N/A	N	19.13	19.47	19.365	
	Sulphate	mg/L	Quarterly	10	38	8	17	4	4	N/A	N	8	38	18.25	
	Temperature (field)	deg c	Quarterly	17.4	18.3	20.1	18.6	4	4	N/A	N	17.4	20.1	18.6	
	Tetrachloroethene	µg/L	Yearly			5		1	0	N/A	N	<1	<1	<1	
	Toluene	µg/L	Yearly			1		1	1	N/A	N	5	5	5	
	Total Dissolved Solids	mg/L	Quarterly	150	150	150	170	4	4	N/A	N	150	170	155	
	Total Organic Carbon	mg/L	Quarterly	1	2	1	3	4	4	N/A	N	1	3	1.75	
	TPH	µg/L	Yearly			<10		1	0	N/A	N	<10	<10	<10	
	Total Phenolics	mg/L	Yearly			<0.05		1	0	N/A	N	<0.05	<0.05	<0.05	
	Trichloroethene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Xylenes	µg/L	Yearly			<2		1	0	N/A	N	<2	<2	<2	
	Zinc	µg/L	Yearly			68		1	1	N/A	N	68	68	68	
	Total Alkalinity (Carbonate and Bicarbonate)	mg/L	Quarterly	27	8	29	32	4	4	N/A	N	8	32	24	
	Aluminium	µg/L	Yearly			<10		1	0	N/A	N	<10	<10	<10	
	Arsenic	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Barium	µg/L	Yearly			200		1	1	N/A	N	200	200	200	
	Benzene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Benzo(a)pyrene	µg/L	Yearly			<0.1		1	0	N/A	N	<0.1	<0.1	<0.1	
	Bicarbonate Alkalinity	mg/L	Quarterly	27	8	29	32	4	4	N/A	N	8	32	24	
	Cadmium	µg/L	Yearly			0.2		1	1	N/A	N	0.2	0.2	0.2	
	Calcium (II) Ion	mg/L	Quarterly	4	3	3	3	4	4	N/A	N	3	4	3.25	
	Chloride	mg/L	Quarterly	74	79	64	60	4	4	N/A	N	60	79	69.25	
	Chromium (Hexavalent)	µg/L	Yearly			<0.005		1	0	N/A	N	<0.005	<0.005	<0.005	
	Chromium (Total)	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Cobalt	µg/L	Yearly			2		1	1	N/A	N	2	2	2	
	Copper	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Ethylbenzene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Fluoride	mg/L	Yearly			<0.1		1	0	N/A	N	<0.1	<0.1	<0.1	
	Lead	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Magnesium (II) Ion	mg/L	Quarterly	11	9.7	9.3	9.8	4	4	N/A	N	9.3	11	9.95	
	Manganese	µg/L	Yearly			50		1	1	N/A	N	50	50	50	
	Mercury	µg/L	Yearly			<0.05		1	0	N/A	N	<0.05	<0.05	<0.05	
	Nickel	µg/L	Yearly			6		1	1	N/A	N	6	6	6	
	Nitrate as N in water	mg/L	Quarterly	0.02	0.01	0.38	<0.005	4	3	N/A	N	0.01	0.38	0.1366666667	

Sampling Point as per Licence	Pollutant	Unit of measure ²	Monitoring Frequency Required by licence	17-18/9/2024	18-19/12/2024	18/03/2025	9/05/2025	No. of samples required	No. of samples collected and analysed	Pollutant Limit	Exceedance (Y/N)	Min	Max	Average	Comments
MB045 (EPA ID 46)	Nitrite as N in water	mg/L	Quarterly	<0.005	0.006	<0.005	<0.005	4	1	N/A	N	0.006	0.006	0.006	
	Ammonia as N	mg/L	Quarterly	<0.005	0.041	0.22	<0.005	4	2	1mg/L	N	0.041	0.22	0.1305	
	OCF	µg/L	Yearly			<0.2		1	0	N/A	N	<0.2	<0.2	<0.2	
	OPP	µg/L	Yearly			<0.2		1	0	N/A	N	<0.2	<0.2	<0.2	
	PCBs	µg/L	Yearly			<2		1	0	N/A	N	<2	<2	<2	
	pH (field)	pH units	Quarterly	5.5	3.92	5.64	5.81	4	4	N/A	N	3.92	5.81	5.2175	
	Phosphorus	mg/L	Quarterly	0.09	<0.05	<0.05	<0.05	4	1	N/A	N	0.09	0.09	0.09	
	PAH	µg/L	Yearly			<0.1		1	0	N/A	N	<0.1	<0.1	<0.1	
	Potassium (I) Ion	mg/L	Quarterly	4	2	4	2	4	4	N/A	N	4	4	2.25	
	Redox (field)	mV	Quarterly	179	198	87.6	-94	4	4	N/A	N	-94	198	92.65	
	Selenium	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Sodium (Na)	mg/L	Quarterly	36	29	33	36	4	4	N/A	N	29	36	33.5	
	Standing Water Level	mBTOC	Quarterly	14.43	14.5	14.78	14.69	4	4	N/A	N	14.43	14.78	14.6	
	Sulphate	mg/L	Quarterly	9	21	7	7	4	4	N/A	N	7	21	11	
	Temperature (field)	deg c	Quarterly	18.3	18.4	18.5	18.1	4	4	N/A	N	18.1	18.5	18.325	
	Tetrachloroethene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Toluene	µg/L	Yearly			4		1	1	N/A	N	4	4	4	
	Total Dissolved Solids	mg/L	Quarterly	140	160	160	180	4	4	N/A	N	140	180	160	
	Total Organic Carbon	mg/L	Quarterly	2	2	2	2	4	4	N/A	N	2	2	2	
	TPH	µg/L	Yearly			<10		1	0	N/A	N	<10	<10	<10	
	Total Phenolics	mg/L	Yearly			<0.05		1	0	N/A	N	<0.05	<0.05	<0.05	
	Trichloroethene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Xylenes	µg/L	Yearly			<2		1	0	N/A	N	<2	<2	<2	
	Zinc	µg/L	Yearly			37		1	1	N/A	N	37	37	37	
	Total Alkalinity (Carbonate and Bicarbonate)	mg/L	Quarterly	41	24	37	38	4	4	N/A	N	24	41	35	
	Aluminium	µg/L	Yearly			<10		1	0	N/A	N	<10	<10	<10	
	Arsenic	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Barium	µg/L	Yearly			140		1	1	N/A	N	140	140	140	
	Benzene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Benzo(a)pyrene	µg/L	Yearly			<0.1		1	0	N/A	N	<0.1	<0.1	<0.1	
	Bicarbonate Alkalinity	mg/L	Quarterly	41	24	37	38	4	4	N/A	N	24	41	35	
	Cadmium	µg/L	Yearly			<0.1		1	0	N/A	N	<0.1	<0.1	<0.1	
MB305 (EPA ID 16)	Calcium (II) Ion	mg/L	Quarterly	8.1	7.4	7.5	7.6	4	4	N/A	N	7.4	8.1	7.65	
	Chloride	mg/L	Quarterly	95	81	80	75	4	4	N/A	N	75	95	82.75	
	Chromium (Hexavalent)	mg/L	Yearly			<0.005		1	0	N/A	N	<0.005	<0.005	<0.005	
	Chromium (Total)	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Cobalt	µg/L	Yearly			6		1	1	N/A	N	6	6	6	
	Copper	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Ethylbenzene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Fluoride	mg/L	Yearly			0.1		1	1	N/A	N	0.1	0.1	0.1	
	Lead	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Magnesium (II) Ion	mg/L	Quarterly	9.2	10	9.2	9.7	4	4	N/A	N	9.2	10	9.525	
	Manganese	µg/L	Yearly			850		1	1	N/A	N	850	850	850	
	Mercury	µg/L	Yearly			<0.05		1	0	N/A	N	<0.05	<0.05	<0.05	
	Nickel	µg/L	Yearly			6		1	1	N/A	N	6	6	6	
	Nitrate as N in water	mg/L	Quarterly	0.096	0.007	0.3	0.37	4	4	N/A	N	0.007	0.37	0.19325	
	Nitrite as N in water	mg/L	Quarterly	<0.005	<0.005	0.041	0.005	4	2	N/A	N	0.005	0.041	0.023	
	Ammonia as N	mg/L	Quarterly	0.018	0.24	0.17	0.13	4	4	1mg/L	N	0.018	0.24	0.1395	
	OCF	µg/L	Yearly			<0.2		1	0	N/A	N	<0.2	<0.2	<0.2	
	OPP	µg/L	Yearly			<0.2		1	0	N/A	N	<0.2	<0.2	<0.2	
	PCBs	µg/L	Yearly			<2		1	0	N/A	N	<2	<2	<2	
	pH (field)	pH units	Quarterly	5.49	4.61	5.65	5.64	4	4	N/A	N	4.61	5.65	5.3475	
	Phosphorus	mg/L	Quarterly	0.1	<0.05	0.1	0.09	4	3	N/A	N	0.09	0.1	0.096666667	
	PAH	µg/L	Yearly			<0.1		1	0	N/A	N	<0.1	<0.1	<0.1	
	Potassium (I) Ion	mg/L	Quarterly	2	2	2	2	4	4	N/A	N	2	2	2	
	Redox (field)	mV	Quarterly	200	22.4	-72	12	4	4	N/A	N	-72	200	40.6	
	Selenium	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Sodium (Na)	mg/L	Quarterly	52	39	44	47	4	4	N/A	N	39	52	45.5	
	Standing Water Level	mBTOC	Quarterly	10.15	9.98	10.45	9.15	4	4	N/A	N	9.15	10.45	9.9325	
	Sulphate	mg/L	Quarterly	33	20	12	12	4	4	N/A	N	12	33	21.5	
	Temperature (field)	deg c	Quarterly	17.4	19.8	18	18.8	4	4	N/A	N	17.4	19.8	18.5	
	Tetrachloroethene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Toluene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Total Dissolved Solids	mg/L	Quarterly	200	200	190	230	4	4	N/A	N	190	230	205	
	Total Organic Carbon	mg/L	Quarterly	2	2	3	7	4	4	N/A	N	2	7	3.5	
	TPH	µg/L	Yearly			<10		1	0	N/A	N	<10	<10	<10	
	Total Phenolics	mg/L	Yearly			<0.05		1	0	N/A	N	<0.05	<0.05	<0.05	
	Trichloroethene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Xylenes	µg/L	Yearly			<2		1	0	N/A	N	<2	<2	<2	
	Zinc	µg/L	Yearly			68		1	1	N/A	N	68	68	68	
	Total Alkalinity (Carbonate and Bicarbonate)	mg/L	Quarterly	6	<5	9	7	4	3	N/A	N	6	9	7.333333333	
	Aluminium	µg/L	Yearly			440		1	1	N/A	N	440	440	440	
	Arsenic	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Barium	µg/L	Yearly			85		1	1	N/A	N	85	85	85	
	Benzene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Benzo(a)pyrene	µg/L	Yearly			<0.1		1	0	N/A	N	<0.1	<0.1	<0.1	
	Bicarbonate Alkalinity	mg/L	Quarterly	6	<5	9	7	4	3	N/A	N	6	9	7.333333333	
	Cadmium	µg/L	Yearly			<0.1		1	0	N/A	N	<0.1	<0.1	<0.1	
	Calcium (II) Ion	mg/L	Quarterly	4	4	3	3	4	4	N/A	N	3	4	3.5	
	Chloride	mg/L	Quarterly	100	91	88	82	4	4	N/A	N	82	100	90.25	
	Chromium (Hexavalent)	mg/L	Yearly			<0.005		1	0	N/A	N	<0.005	<0.005	<0.005	
	Chromium (Total)	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Cobalt	µg/L	Yearly			6		1	1	N/A	N	6	6	6	
	Copper	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Ethylbenzene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Fluoride	mg/L	Yearly			<0.1		1	0	N/A	N	<0.1	<0.1	<0.1	
	Lead	µg/L	Yearly			4		1	1	N/A	N	4	4	4	
	Magnesium (II) Ion	mg/L	Quarterly	7.3	7.8	7	7.5	4	4	N/A	N	7	7.8	7.4	
	Manganese	µg/L	Yearly			90		1	1	N/A	N	90	90	90	
	Mercury	µg/L	Yearly			<0.05		1	0	N/A	N	<0.05	<0.05	<0.05	
	Nickel	µg/L	Yearly			2		1	1	N/A	N	2	2	2	

Sampling Point as per Licence	Pollutant	Unit of measure ²	Monitoring Frequency Required by licence	17-18/9/2024	18-19/12/2024	18/03/2025	9/05/2025	No. of samples required	No. of samples collected and analysed	Pollutant Limit	Exceedance (Y/N)	Min	Max	Average	Comments
MB306 (EPA ID 17)	Nitrate as N in water	mg/L	Quarterly	0.27	0.28	0.29	0.21	4	4	N/A	N	0.21	0.29	0.2625	
	Nitrite as N in water	mg/L	Quarterly	<0.005	<0.005	<0.005	<0.005	4	0	N/A	N	<0.005	<0.005	<0.005	
	Ammonia as N	mg/L	Quarterly	<0.005	0.330	0.096	0.140	4	3	1mg/L	N	0.096	0.33	0.188666667	
	OCF	µg/L	Yearly			<0.2		1	0	N/A	N	<0.2	<0.2	<0.2	
	OPP	µg/L	Yearly			<0.2		1	0	N/A	N	<0.2	<0.2	<0.2	
	PCBs	µg/L	Yearly			<2		1	0	N/A	N	<2	<2	<2	
	pH (field)	pH units	Quarterly	4.7	3.64	4.32	4.54	4	4	N/A	N	3.64	4.7	4.3	
	Phosphorus	mg/L	Quarterly	<0.05	<0.05	<0.05	<0.05	4	0	N/A	N	<0.05	<0.05	<0.05	
	PAH	µg/L	Yearly			<0.1		1	0	N/A	N	<0.1	<0.1	<0.1	
	Potassium (I) Ion	mg/L	Quarterly	0.8	0.8	0.6	0.7	4	4	N/A	N	0.6	0.8	0.725	
	Redox (field)	mV	Quarterly	226	160.3	-3.1	128.3	4	4	N/A	N	-3.1	226	127.875	
	Selenium	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Sodium (Na)	mg/L	Quarterly	51	40	47	50	4	4	N/A	N	40	51	47	
	Standing Water Level	mBTOC	Quarterly	5.72	5.94	6.24	6.13	4	4	N/A	N	5.72	6.24	6.0075	
	Sulphate	mg/L	Quarterly	10	14	11	9	4	4	N/A	N	9	14	11	
	Temperature (field)	deg c	Quarterly	16.2	18.6	18.8	19.2	4	4	N/A	N	16.2	19.2	18.2	
	Tetrachloroethene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Toluene	µg/L	Yearly			1		1	1	N/A	N	1	1	1	
	Total Dissolved Solids	mg/L	Quarterly	210	220	210	200	4	4	N/A	N	200	220	210	
	Total Organic Carbon	mg/L	Quarterly	3	8	2	1	4	4	N/A	N	1	8	3.5	
	TPH	µg/L	Yearly			<10		1	0	N/A	N	<10	<10	<10	
	Total Phenolics	mg/L	Yearly			<0.05		1	0	N/A	N	<0.05	<0.05	<0.05	
	Trichloroethene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Xylenes	µg/L	Yearly			<2		1	0	N/A	N	<2	<2	<2	
	Zinc	µg/L	Yearly			52		1	1	N/A	N	52	52	52	
	Total Alkalinity (Carbonate and Bicarbonate)	mg/L	Quarterly	67	77	64	59	4	4	N/A	N	59	77	66.75	
	Aluminium	µg/L	Yearly			<10		1	0	N/A	N	<10	<10	<10	
	Arsenic	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Barium	µg/L	Yearly			84		1	1	N/A	N	84	84	84	
	Benzene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Benzo(a)pyrene	µg/L	Yearly			<0.1		1	0	N/A	N	<0.1	<0.1	<0.1	
	Bicarbonate Alkalinity	mg/L	Quarterly	67	77	64	59	4	4	N/A	N	59	77	66.75	
	Cadmium	µg/L	Yearly			<0.1		1	0	N/A	N	<0.1	<0.1	<0.1	
	Calcium (II) Ion	mg/L	Quarterly	12	14	11	16	4	4	N/A	N	11	16	13.25	
	Chloride	mg/L	Quarterly	170	180	120	32	4	4	N/A	N	32	180	125.5	
	Chromium (Hexavalent)	mg/L	Yearly			<0.005		1	0	N/A	N	<0.005	<0.005	<0.005	
	Chromium (Total)	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Cobalt	µg/L	Yearly			4		1	1	N/A	N	4	4	4	
	Copper	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Ethylbenzene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Fluoride	mg/L	Yearly			0.3		1	1	N/A	N	0.3	0.3	0.3	
	Lead	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Magnesium (II) Ion	mg/L	Quarterly	21	40	12	4	4	4	N/A	N	4	40	19.25	
	Manganese	µg/L	Yearly			560		1	1	N/A	N	560	560	560	
	Mercury	µg/L	Yearly			<0.05		1	0	N/A	N	<0.05	<0.05	<0.05	
	Nickel	µg/L	Yearly			5		1	1	N/A	N	5	5	5	
MB047 (EPA ID 48)	Nitrate as N in water	mg/L	Quarterly	0.007	<0.005	<0.005	0.18	4	2	N/A	N	0.007	0.18	0.0935	
	Nitrite as N in water	mg/L	Quarterly	<0.005	<0.005	<0.005	<0.005	4	0	N/A	N	<0.005	<0.005	<0.005	
	Ammonia as N	mg/L	Quarterly	0.028	0.031	0.048	0.03	4	4	1mg/L	N	0.028	0.048	0.03425	
	OCF	µg/L	Yearly			<0.2		1	0	N/A	N	<0.2	<0.2	<0.2	
	OPP	µg/L	Yearly			<0.2		1	0	N/A	N	<0.2	<0.2	<0.2	
	PCBs	µg/L	Yearly			<2		1	0	N/A	N	<2	<2	<2	
	pH (field)	pH units	Quarterly	5.87	4.8	5.29	5.24	4	4	N/A	N	4.8	5.87	5.3	
	Phosphorus	mg/L	Quarterly	1.1	<0.05	0.1	<0.05	4	2	N/A	N	0.1	1.1	0.6	
	PAH	µg/L	Yearly			<0.1		1	0	N/A	N	<0.1	<0.1	<0.1	
	Potassium (I) Ion	mg/L	Quarterly	5.6	3	2.1	1	4	4	N/A	N	1	5.6	2.9	
	Redox (field)	mV	Quarterly	14.2	134	23.1	89	4	4	N/A	N	14.2	134	65.075	
	Selenium	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Sodium (Na)	mg/L	Quarterly	110	210	83	24	4	4	N/A	N	24	210	106.75	
	Standing Water Level	mBTOC	Quarterly	31.4	31.1	31.55	31.77	4	4	N/A	N	31.1	31.77	31.455	
	Sulphate	mg/L	Quarterly	24	26	18	6	4	4	N/A	N	6	26	18.5	
	Temperature (field)	deg c	Quarterly	17.9	20.4	18	17.6	4	4	N/A	N	17.6	20.4	18.475	
	Tetrachloroethene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Toluene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Total Dissolved Solids	mg/L	Quarterly	360	420	210	120	4	4	N/A	N	120	420	277.5	
	Total Organic Carbon	mg/L	Quarterly	4	6	10	19	4	4	N/A	N	4	19	9.75	
	TPH	µg/L	Yearly			<10		1	0	N/A	N	<10	<10	<10	
	Total Phenolics	mg/L	Yearly			<0.05		1	0	N/A	N	<0.05	<0.05	<0.05	
	Trichloroethene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Xylenes	µg/L	Yearly			<2		1	0	N/A	N	<2	<2	<2	
	Zinc	µg/L	Yearly			26		1	1	N/A	N	26	26	26	
	Total Alkalinity (Carbonate and Bicarbonate)	mg/L	Quarterly	72	56	68	70	4	4	N/A	N	56	72	66.5	
	Aluminium	µg/L	Yearly			<10		1	0	N/A	N	<10	<10	<10	
	Arsenic	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Barium	µg/L	Yearly			76		1	1	N/A	N	76	76	76	
	Benzene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Benzo(a)pyrene	µg/L	Yearly			<0.1		1	0	N/A	N	<0.1	<0.1	<0.1	
	Bicarbonate Alkalinity	mg/L	Quarterly	72	56	68	70	4	4	N/A	N	56	72	66.5	
	Cadmium	µg/L	Yearly			<0.1		1	0	N/A	N	<0.1	<0.1	<0.1	
	Calcium (II) Ion	mg/L	Quarterly	15	14	14	15	4	4	N/A	N	14	15	14.5	
	Chloride	mg/L	Quarterly	370	400	340	320	4	4	N/A	N	320	400	357.5	
	Chromium (Hexavalent)	mg/L	Yearly			<0.005		1	0	N/A	N	<0.005	<0.005	<0.005	
	Chromium (Total)	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Cobalt	µg/L	Yearly			3		1	1	N/A	N	3	3	3	
	Copper	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Ethylbenzene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Fluoride	mg/L	Yearly			0.3		1	1	N/A	N	0.3	0.3	0.3	
	Lead	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Magnesium (II) Ion	mg/L	Quarterly	41	39	38	41	4	4	N/A	N	38	41	39.75	
	Manganese	µg/L	Yearly			320		1	1	N/A	N	320	320	320	
	Mercury	µg/L	Yearly			<0.05		1	0	N/A	N	<0.05	<0.05	<0.05	

Sampling Point as per Licence	Pollutant	Unit of measure ²	Monitoring Frequency Required by licence	17-18/9/2024	18-19/12/2024	18/03/2025	9/05/2025	No. of samples required	No. of samples collected and analysed	Pollutant Limit	Exceedance (Y/N)	Min	Max	Average	Comments
MB046 (EPA ID 47)	Nickel	µg/L	Yearly			9		1	1	N/A	N	9	9	9	
	Nitrate as N in water	mg/L	Quarterly	0.009	0.01	0.02	0.006	4	4	N/A	N	0.006	0.02	0.0125	
	Nitrite as N in water	mg/L	Quarterly	<0.005	<0.005	<0.005	<0.005	4	0	N/A	N	<0.005	<0.005	<0.005	
	Ammonia as N	mg/L	Quarterly	<0.005	0.014	0.064	<0.005	4	2	1mg/L	N	0.014	0.064	0.039	
	OCF	µg/L	Yearly			<0.2		1	0	N/A	N	<0.2	<0.2	<0.2	
	OPP	µg/L	Yearly			<0.2		1	0	N/A	N	<0.2	<0.2	<0.2	
	PCBs	µg/L	Yearly			<2		1	0	N/A	N	<2	<2	<2	
	pH (field)	pH units	Quarterly	5.55	4.63	5.28	5.51	4	4	N/A	N	4.63	5.55	5.2425	
	Phosphorus	mg/L	Quarterly	<0.05	<0.05	<0.05	<0.05	4	0	N/A	N	<0.05	<0.05	<0.05	
	PAH	µg/L	Yearly			<0.1		1	0	N/A	N	<0.1	<0.1	<0.1	
	Potassium (I) Ion	mg/L	Quarterly	3	3.0	3	3	4	4	N/A	N	3	3	3	
	Redox (field)	mV	Quarterly	175	175	27	50.9	4	4	N/A	N	27	175	106.975	
	Selenium	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Sodium (Na)	mg/L	Quarterly	220	210.00	210	210	4	4	N/A	N	210	220	212.5	
	Standing Water Level	mBTOC	Quarterly	21.95	22.15	24.44	22.3	4	4	N/A	N	21.95	24.44	22.71	
	Sulphate	mg/L	Quarterly	31	33	30	28	4	4	N/A	N	28	33	30.5	
	Temperature (field)	deg c	Quarterly	17.6	18.3	19.8	17.7	4	4	N/A	N	17.6	19.8	18.35	
	Tetrachloroethene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Toluene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Total Dissolved Solids	mg/L	Quarterly	720	720	840	970	4	4	N/A	N	720	970	812.5	
	Total Organic Carbon	mg/L	Quarterly	2	2	3	3	4	4	N/A	N	2	3	2.5	
	TPH	µg/L	Yearly			<10		1	0	N/A	N	<10	<10	<10	
	Total Phenolics	mg/L	Yearly			<0.05		1	0	N/A	N	<0.05	<0.05	<0.05	
	Trichloroethene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Xylenes	µg/L	Yearly			<2		1	0	N/A	N	<2	<2	<2	
	Zinc	mg/L	Yearly	14		14		1	14	N/A	N	14	14	14	
	Total Alkalinity (Carbonate and Bicarbonate)	mg/L	Quarterly	56	150	170	190	4	4	N/A	N	56	190	141.5	
MB048 (EPA ID 49)	Aluminium	µg/L	Yearly			<10		1	0	N/A	N	<10	<10	<10	
	Arsenic	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Barium	µg/L	Yearly			140		1	1	N/A	N	140	140	140	
	Benzene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Benzo(a)pyrene	µg/L	Yearly			<0.1		1	0	N/A	N	<0.1	<0.1	<0.1	
	Bicarbonate Alkalinity	mg/L	Quarterly	43	150	170	190	4	4	N/A	N	43	150	138.25	
	Cadmium	µg/L	Yearly			<0.1		1	0	N/A	N	<0.1	<0.1	<0.1	
	Calcium (II) Ion	mg/L	Quarterly	17	28	63	63	4	4	N/A	N	17	63	42.75	
	Chloride	mg/L	Quarterly	140	150	120	120	4	4	N/A	N	120	150	132.5	
	Chromium (Hexavalent)	mg/L	Yearly			<0.005		1	0	N/A	N	<0.005	<0.005	<0.005	
	Chromium (Total)	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Cobalt	µg/L	Yearly			4		1	1	N/A	N	4	4	4	
	Copper	µg/L	Yearly			1		1	1	N/A	N	1	1	1	
	Ethylbenzene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Fluoride	mg/L	Yearly			<0.1		1	0	N/A	N	<0.1	<0.1	<0.1	
	Lead	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Magnesium (II) Ion	mg/L	Quarterly	4	12	7.1	8.3	4	4	N/A	N	4	12	7.85	
	Manganese	µg/L	Yearly			340		1	1	N/A	N	340	340	340	
	Mercury	µg/L	Yearly			<0.05		1	0	N/A	N	<0.05	<0.05	<0.05	
	Nickel	µg/L	Yearly			6		1	1	N/A	N	6	6	6	
	Nitrate as N in water	mg/L	Quarterly	0.12	<0.005	0.007	0.008	4	3	N/A	N	0.007	0.12	0.045	
	Nitrite as N in water	mg/L	Quarterly	<0.005	<0.005	0.008	<0.005	4	1	N/A	N	0.008	0.008	0.008	
	Ammonia as N	mg/L	Quarterly	<0.005	0.52	0.15	0.03	4	3	1mg/L	N	0.03	0.52	0.233333333	
	OCF	µg/L	Yearly			<0.2		1	0	N/A	N	<0.2	<0.2	<0.2	
	OPP	µg/L	Yearly			<0.2		1	0	N/A	N	<0.2	<0.2	<0.2	
	PCBs	µg/L	Yearly			<2		1	0	N/A	N	<2	<2	<2	
	pH (field)	pH units	Quarterly	70.2	4.72	5.35	5.84	4	4	N/A	N	4.72	70.2	21.5275	
	Phosphorus	mg/L	Quarterly	0.1	0.05	<0.05	0.06	4	3	N/A	N	0.05	0.1	0.07	
	PAH	µg/L	Yearly			<0.1		1	0	N/A	N	<0.1	<0.1	<0.1	
	Potassium (I) Ion	mg/L	Quarterly	5	3	4	4	4	4	N/A	N	3	5	4	
	Redox (field)	mV	Quarterly	181	172.3	67.1	50	4	4	N/A	N	50	181	117.6	
	Selenium	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Sodium (Na)	mg/L	Quarterly	92	110	79	79	4	4	N/A	N	79	110	90	
	Standing Water Level	mBTOC	Quarterly	19.92	20.33	21.57	17.58	4	4	N/A	N	17.58	21.57	19.85	
	Sulphate	mg/L	Quarterly	14	27	15	13	4	4	N/A	N	13	27	17.25	
	Temperature (field)	deg c	Quarterly	18.1	19.9	18.8	18.2	4	4	N/A	N	18.1	19.9	18.75	
	Tetrachloroethene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Toluene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Total Dissolved Solids	mg/L	Quarterly	280	410	480	500	4	4	N/A	N	280	500	417.5	
	Total Organic Carbon	mg/L	Quarterly	3	2	2	14	4	4	N/A	N	2	14	5.25	
	TPH	µg/L	Yearly			<10		1	0	N/A	N	<10	<10	<10	
	Total Phenolics	mg/L	Yearly			<0.05		1	0	N/A	N	<0.05	<0.05	<0.05	
	Trichloroethene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Xylenes	µg/L	Yearly			<2		1	0	N/A	N	<2	<2	<2	
	Zinc	µg/L	Yearly			46		1	1	N/A	N	46	46	46	
	Total Alkalinity (Carbonate and Bicarbonate)	mg/L	Quarterly	180	150	230	220	4	4	N/A	N	150	230	195	
	Aluminium	µg/L	Yearly			<10		1	0	N/A	N	<10	<10	<10	
	Arsenic	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Barium	µg/L	Yearly			140		1	1	N/A	N	140	140	140	
	Benzene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Benzo(a)pyrene	µg/L	Yearly			<0.1		1	0	N/A	N	<0.1	<0.1	<0.1	
	Bicarbonate Alkalinity	mg/L	Quarterly	180	150	230	220	4	4	N/A	N	150	230	195	
	Cadmium	µg/L	Yearly			<0.1		1	0	N/A	N	<0.1	<0.1	<0.1	
	Calcium (II) Ion	mg/L	Quarterly	38	28	51	66	4	4	N/A	N	28	66	45.75	
	Chloride	mg/L	Quarterly	140	150	130	120	4	4	N/A	N	120	150	135	
	Chromium (Hexavalent)	mg/L	Yearly			<0.005		1	0	N/A	N	<0.005	<0.005	<0.005	
	Chromium (Total)	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Cobalt	µg/L	Yearly			9		1	1	N/A	N	9	9	9	
	Copper	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Ethylbenzene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Fluoride	mg/L	Yearly			0.2		1	1	N/A	N	0.2	0.2	0.2	
	Lead	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Magnesium (II) Ion	mg/L	Quarterly	13	12	13	14	4	4	N/A	N	12	14	13	
	Manganese	µg/L	Yearly			890		1	1	N/A	N	890	890	890	

Sampling Point as per Licence	Pollutant	Unit of measure ²	Monitoring Frequency Required by licence	17-18/9/2024	18-19/12/2024	18/03/2025	9/05/2025	No. of samples required	No. of samples collected and analysed	Pollutant Limit	Exceedance (Y/N)	Min	Max	Average	Comments
MB049 (EPA ID 50)	Mercury	µg/L	Yearly			<0.05		1	0	N/A	N	<0.05	<0.05	<0.05	
	Nickel	µg/L	Yearly			8		1	1	N/A	N	8	8	8	
	Nitrate as N in water	mg/L	Quarterly	0.04	<0.005	0.03	0.063	4	3	N/A	N	0.03	0.063	0.044333333	
	Nitrite as N in water	mg/L	Quarterly	<0.005	<0.005	<0.005	<0.005	4	0	N/A	N	<0.005	<0.005	<0.005	
	Ammonia as N	mg/L	Quarterly	0.049	0.52	0.047	0.03	4	4	1mg/L	N	0.03	0.52	0.1615	
	OCF	µg/L	Yearly			<0.2		1	0	N/A	N	<0.2	<0.2	<0.2	
	OPP	µg/L	Yearly			<0.2		1	0	N/A	N	<0.2	<0.2	<0.2	
	PCBs	µg/L	Yearly			<2		1	0	N/A	N	<2	<2	<2	
	pH (field)	pH units	Quarterly	6.78	4.94	5.6	5.53	4	4	N/A	N	4.94	6.78	5.7125	
	Phosphorus	mg/L	Quarterly	0.1	0.05	<0.05	0.05	4	3	N/A	N	0.05	0.1	0.066666667	
	PAH	µg/L	Yearly			<0.1		1	0	N/A	N	<0.1	<0.1	<0.1	
	Potassium (I) Ion	mg/L	Quarterly	4	3	3	3	4	4	N/A	N	3	4	3.25	
	Redox (field)	mV	Quarterly	210	132.4	60	65.7	4	4	N/A	N	60	210	117.025	
	Selenium	µg/L	Yearly			<1		1	0	N/A	N	0	0	<1	
	Sodium (Na)	mg/L	Quarterly	130	110	110	110	4	4	N/A	N	110	130	115	
	Standing Water Level	m8TOC	Quarterly	21.52	21.28	23.04	21.52	4	4	N/A	N	21.28	23.04	21.84	
	Sulphate	mg/L	Quarterly	26	27	24	21	4	4	N/A	N	21	27	24.5	
	Temperature (field)	deg c	Quarterly	18	19.2	18.9	18.3	4	4	N/A	N	18	19.2	18.6	
	Tetrachloroethene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Toluene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Total Dissolved Solids	mg/L	Quarterly	470	410	500	540	4	4	N/A	N	410	540	480	
	Total Organic Carbon	mg/L	Quarterly	5	2	1	9	4	4	N/A	N	1	9	4.25	
	TPH	µg/L	Yearly			<10		1	0	N/A	N	<10	<10	<10	
	Total Phenolics	mg/L	Yearly			<0.05		1	0	N/A	N	<0.05	<0.05	<0.05	
	Trichloroethene	µg/L	Yearly			<1		1	0	N/A	N	<1	<1	<1	
	Xylenes	µg/L	Yearly			<2		1	0	N/A	N	<2	<2	<2	
	Zinc	µg/L	Yearly			16		1	1	N/A	N	16	16	16	
Date Monitoring Data Obtained					5/02/2025	17/04/2025	13/06/2025								
Date Uploaded					18/02/2025	2/05/2025	13/06/2025								

Comment:

NL - Dry well observed. Insufficient groundwater available for sampling.

*** Monitoring date pending

¹ Please note that under condition M2.3 Water and/or Land Monitoring Requirements table the units of measure for all groundwater parameters excluding SWL, redox, temp, and pH are to be reported in "mg/L". This has been adjusted to "µg/L" to reflect the lab reports provided by Australian Laboratory Services.

² MB033 was resampled on 21/2/2025 due to anomalous result from 18/12/2024. Result received on 28/2/2025, uploaded on 11/3/2025.