

FOREST ROAD LANDFILL - YEARLY SUMMARY FOR 2021/22
Licence Number - 5921
Forest Road Landfill - Forest Road, Tamworth NSW 2340 Licencee - Tamworth Regional Council
Public Register <https://www.epa.nsw.gov.au/licensing-and-regulation/public-registers>

LICENCE PERIOD: 25th Sept 2020 - 24th Sept 2021

PQL = Practical Quantitation Limit
LOR = Limit of Reporting

DISCHARGE AND MONITORING POINT 1 - Surface Water Dam Overflow adjacent to Forest Road and Landfill access road intersection
Concentration Limits: Point 1: TSS (Total Suspended Solids) - 50mg/L, 100 percentile concentration limit

Pollutant	Unit of measure	Monitoring Frequency	Date Sampled
			25/11/2021
			Date Data Obtained
			8/12/2021
			Value
Alkalinity	mg/L	Special Frequency 1	135
Biological Oxygen Demand	mg/L	Special Frequency 1	2
Calcium	mg/L	Special Frequency 1	51
Chloride	mg/L	Special Frequency 1	71
Fluoride	mg/L	Special Frequency 1	0.47
Iron	mg/L	Special Frequency 1	4.67
Magnesium	mg/L	Special Frequency 1	12
Manganese	mg/L	Special Frequency 1	0.166
Nitrate	mg/L	Special Frequency 1	2.54
Nitrogen (Ammonia)	mg/L	Special Frequency 1	1.08
Oil and Grease	mg/L	Special Frequency 1	<5
pH	pH Units	Special Frequency 1	8.0
Potassium	mg/L	Special Frequency 1	21
Sodium	mg/L	Special Frequency 1	49
Sulfate	mg/L	Special Frequency 1	36
Total Organic Carbon	mg/L	Special Frequency 1	20
Total Phenolics	µg/L	Special Frequency 1	<50
Total Suspended Solids	mg/L	Special Frequency 1	106
Volumetric Flow Rate (estimate)	KL/Day	Special Frequency 1	1152.0

NOTE: Special Frequency 1 - collection of samples once in each 3-monthly period at a time of stormwater discharge from Point 1 and on each occasion that discharge from Point 1 incorporates leachate overflow from Point 17

MONITORING POINT 2 - Surface Water Dam

Pollutant	Unit of measure	Monitoring Frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			9/03/2021	2/06/2021	7/09/2021	8/09/2021
			Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
			18/03/2021	15/06/2021	20/09/2021	21/09/2021
			Value	Value	Value	Value
Alkalinity	mg/L	Quarterly	89	181	185	147
Biological Oxygen Demand	mg/L	Quarterly	6	18	6	18
Calcium	mg/L	Quarterly	33	58	55	54
Chloride	mg/L	Quarterly	38	230	114	77
Fluoride	mg/L	Quarterly	0.45	0.36	0.35	0.4
Iron	mg/L	Quarterly	10.1	2.51	4.68	0.19
Magnesium	mg/L	Quarterly	8	25	18	12
Manganese	mg/L	Quarterly	0.438	2.14	1.27	0.093
Nitrate	mg/L	Quarterly	1.61	0.14	2.4	3.39
Nitrite	mg/L	Quarterly	0.06	<0.01	0.3	0.61
Nitrogen (Ammonia)	mg/L	Quarterly	0.09	0.07	3.2	1.14
Oil and Grease	mg/L	Quarterly	<5	<5	<5	<5
pH	pH Units	Quarterly	8.2	8.7	7.5	8.1
Potassium	mg/L	Quarterly	12	38	22	27
Sodium	mg/L	Quarterly	26	104	67	50
Sulfate	mg/L	Quarterly	17	42	29	47
Total Organic Carbon	mg/L	Quarterly	9	27	16	16
Total Phenolics	µg/L	Quarterly	<50	<50	<50	<50
Total Suspended Solids	mg/L	Quarterly	335	119	32	28

MONITORING POINT 3 -Instream water - Spring Creek above overflow from surface water dam

Pollutant	Unit of measure	Monitoring Frequency	Date Sampled
			25/11/2021
			Date Data Obtained
			8/12/2021
			Value
Alkalinity (as Calcium Carbonate)	mg/L	Special Frequency 1	197
Biological Oxygen Demand	mg/L	Special Frequency 1	<2
Calcium	mg/L	Special Frequency 1	47
Chloride	mg/L	Special Frequency 1	26
Fluoride	mg/L	Special Frequency 1	0.33
Iron	mg/L	Special Frequency 1	1.34
Magnesium	mg/L	Special Frequency 1	20
Manganese	mg/L	Special Frequency 1	0.021
Nitrate	mg/L	Special Frequency 1	0.25
Nitrogen (Ammonia)	mg/L	Special Frequency 1	0.06
pH	pH Units	Special Frequency 1	8.3
Potassium	mg/L	Special Frequency 1	3
Sodium	mg/L	Special Frequency 1	54
Sulfate	mg/L	Special Frequency 1	43
Total Organic Carbon	mg/L	Special Frequency 1	10
Total Phenolics	µg/L	Special Frequency 1	<50
Total Suspended Solids	mg/L	Special Frequency 1	5
Volumetric Flow Rate	KL/Day	Special Frequency 1	720

NOTE: Special Frequency 1 - collection of samples once in each 3-monthly period at a time of stormwater discharge from Point 1 and on each occasion that discharge from Point 1 incorporates leachate overflow from Point 17

MONITORING POINT 4 -Instream water - Spring Creek below overflow from surface water dam

Pollutant	Unit of measure	Monitoring Frequency	Date Sampled
			25/11/2021
			Date Data Obtained
			8/12/2021
			Value
Alkalinity (as Calcium Carbonate)	mg/L	Special Frequency 1	209
Biological Oxygen Demand	mg/L	Special Frequency 1	<2
Calcium	mg/L	Special Frequency 1	49
Chloride	mg/L	Special Frequency 1	31
Fluoride	mg/L	Special Frequency 1	0.37
Iron	mg/L	Special Frequency 1	0.63
Magnesium	mg/L	Special Frequency 1	21
Manganese	mg/L	Special Frequency 1	0.017
Nitrate	mg/L	Special Frequency 1	0.33
Nitrogen (Ammonia)	mg/L	Special Frequency 1	0.02
pH	pH Units	Special Frequency 1	8.1
Potassium	mg/L	Special Frequency 1	4
Sodium	mg/L	Special Frequency 1	54
Sulphate	mg/L	Special Frequency 1	46
Total Organic Carbon	mg/L	Special Frequency 1	11
Total Phenolics	µg/L	Special Frequency 1	<50
Total Suspended Solids	mg/L	Special Frequency 1	5
Volumetric Flow Rate	KL/Day	Special Frequency 1	720

NOTE: Special Frequency 1 - collection of samples once in each 3-monthly period at a time of stormwater discharge from Point 1 and on each occasion that discharge from Point 1 incorporates leachate overflow from Point 17

MONITORING POINT 5 - Northern Leachate Pond

Pollutant	Unit of measure	Monitoring Frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			9/03/2021	2/06/2021	7/09/2021	1/12/2021
			Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
			18/03/2021	15/06/2021	20/09/2021	13/12/2021
			Value	Value	Value	Value
Alkalinity (as Calcium Carbonate)	mg/L	Quarterly	442	805	380	498
Biological Oxygen Demand	mg/L	Quarterly	26	3	8	6
Calcium	mg/L	Quarterly	140	213	166	145
Chloride	mg/L	Quarterly	593	1206	670	495
Fluoride	mg/L	Quarterly	0.48	0.43	0.47	0.7
Iron	mg/L	Quarterly	0.24	0.38	0.38	0.1
Magnesium	mg/L	Quarterly	77	118	83	58
Manganese	mg/L	Quarterly	0.231	1.71	0.102	0.256
Nitrate	mg/L	Quarterly	19.7	3.3	60.8	12.1
Nitrogen (Ammonia)	mg/L	Quarterly	1.0	0.25	3.8	8.25
Oil and Grease	mg/L	Quarterly	<5	<5	<5	<5
pH	pH Units	Quarterly	7.4	7.3	7.7	7.8
Potassium	mg/L	Quarterly	71	75	57	56
Sodium	mg/L	Quarterly	357	588	388	328
Sulphate	mg/L	Quarterly	155	93	96	115
Total Organic Carbon	mg/L	Quarterly	63	53	38	42
Total Phenolics	µg/L	Quarterly	<50	<50	<50	<0.05
Total Suspended Solids	mg/L	Quarterly	19	101	41	5
Volatile Organic Compounds	mg/L	Quarterly	<PQL	<PQL	<PQL	<PQL
Organochlorine Pesticides	µg/L	Quarterly	<LOR	<LOR	<LOR	<LOR
Organophosphate Pesticides	µg/L	Quarterly	<LOR	<LOR	<LOR	<LOR

MONITORING POINT 6 - Southern Leachate Pond

Pollutant	Unit of measure	Monitoring Frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			9/03/2021	2/06/2021	7/09/2021	1/12/2021
			Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
			18/03/2021	15/06/2021	20/09/2021	13/12/2021
			Value	Value	Value	Value
Alkalinity (as Calcium Carbonate)	mg/L	Quarterly	241	DRY	210	183
Biological Oxygen Demand	mg/L	Quarterly	8	DRY	10	24
Calcium	mg/L	Quarterly	61	DRY	77	43
Chloride	mg/L	Quarterly	510	DRY	548	368
Fluoride	mg/L	Quarterly	0.35	DRY	0.3	0.37
Iron	mg/L	Quarterly	0.48	DRY	<0.05	0.14
Magnesium	mg/L	Quarterly	54	DRY	65	35
Manganese	mg/L	Quarterly	0.091	DRY	0.005	0.014
Nitrate	mg/L	Quarterly	4.94	DRY	41.2	4.51
Nitrogen (Ammonia)	mg/L	Quarterly	0.52	DRY	<0.1	0.18
Oil and Grease	mg/L	Quarterly	<5	DRY	<5	<5
pH	pH Units	Quarterly	8.4	DRY	8.4	8.5
Potassium	mg/L	Quarterly	74	DRY	47	37
Sodium	mg/L	Quarterly	339	DRY	343	229
Sulphate	mg/L	Quarterly	148	DRY	98	66
Total Organic Carbon	mg/L	Quarterly	77	DRY	33	27
Total Phenolics	µg/L	Quarterly	<50	DRY	<50	<50
Total Suspended Solids	mg/L	Quarterly	17	DRY	8	6
Volatile Organic Compounds	mg/L	Quarterly	<PQL	DRY	<PQL	<PQL
Organochlorine Pesticides	µg/L	Quarterly	<LOR	DRY	<LOR	<LOR
Organophosphate Pesticides	µg/L	Quarterly	<LOR	DRY	<LOR	<LOR

DISCHARGE AND MONITORING POINT 7 -Leachate overflow from southern leachate retention pond

Pollutant	Unit of measure	Monitoring Frequency	Date Sampled
			No Overflow
			Date Data Obtained
			No Overflow
			Value
Alkalinity (as calcium carbonate)	mg/L	Special Frequency 2	N/A
Biological Oxygen Demand	mg/L	Special Frequency 2	N/A
Calcium	mg/L	Special Frequency 2	N/A
Chloride	mg/L	Special Frequency 2	N/A
Fluoride	mg/L	Special Frequency 2	N/A
Iron	mg/L	Special Frequency 2	N/A
Magnesium	mg/L	Special Frequency 2	N/A
Manganese	mg/L	Special Frequency 2	N/A
Nitrate	mg/L	Special Frequency 2	N/A
Nitrogen (ammonia)	mg/L	Special Frequency 2	N/A
pH	pH Units	Special Frequency 2	N/A
Potassium	mg/L	Special Frequency 2	N/A
Sodium	mg/L	Special Frequency 2	N/A
Sulfate	mg/L	Special Frequency 2	N/A
Total Organic Carbon	mg/L	Special Frequency 2	N/A
Total Phenolics	µg/L	Special Frequency 2	N/A
Total Suspended Solids	mg/L	Special Frequency 2	N/A
Volatile Organic Compounds	mg/L	Special Frequency 2	N/A
Volumetric Flow Rate	KL/Day	Special Frequency 2	N/A
Organochlorine Pesticides	µg/L	Special Frequency 2	N/A
Organophosphate Pesticides	µg/L	Special Frequency 2	N/A

NOTE: Special Frequency 2 - collection of samples once in the first 24 hours after detection of discharge and then weekly whilst the discharge continues

MONITORING POINT 8 - Groundwater Bore (FRMB02 - GW16)

Pollutant	Unit of measure	Monitoring Frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			4/03/2021	8/06/2021	1/09/2021	2/12/2021
			Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
			8/03/2021	10/06/2021		6/12/2021
			Value	Value	Value	Value
pH	pH Value	Quarterly	DRY	DRY	DRY	DRY
Electrical Conductivity	µS/cm	Quarterly	DRY	DRY	DRY	DRY
Calcium	mg/L	Quarterly	DRY	DRY	DRY	DRY
Magnesium	mg/L	Quarterly	DRY	DRY	DRY	DRY
Sodium	mg/L	Quarterly	DRY	DRY	DRY	DRY
Potassium	mg/L	Quarterly	DRY	DRY	DRY	DRY
Sulfate	mg/L	Quarterly	DRY	DRY	DRY	DRY
Chloride	mg/L	Quarterly	DRY	DRY	DRY	DRY
Fluoride	mg/L	Quarterly	DRY	DRY	DRY	DRY
Ammonia	mg/L	Quarterly	DRY	DRY	DRY	DRY
Nitrate+nitrite (oxidised nitrogen)	mg/L	Quarterly	DRY	DRY	DRY	DRY
Total Phosphorus	mg/L	Quarterly	DRY	DRY	DRY	DRY
Soluble Phosphorus	mg/L	Quarterly	DRY	DRY	DRY	DRY
Biological Oxygen Demand	mg/L	Quarterly	DRY	DRY	DRY	DRY
Total Organic Carbon	mg/L	Quarterly	DRY	DRY	DRY	DRY
Dissolved Organic Carbon	mg/L	Yearly	DRY	DRY	DRY	DRY
Iron (Dissolved)	mg/L	Quarterly	DRY	DRY	DRY	DRY
Aluminium	mg/L	Yearly	DRY	DRY	DRY	DRY
Arsenic	mg/L	Yearly	DRY	DRY	DRY	DRY
Copper	mg/L	Yearly	DRY	DRY	DRY	DRY
Cadmium	mg/L	Yearly	DRY	DRY	DRY	DRY
Iron (Total)	mg/L	Yearly	DRY	DRY	DRY	DRY
Manganese	mg/L	Yearly	DRY	DRY	DRY	DRY
Mercury	mg/L	Yearly	DRY	DRY	DRY	DRY
Lead	mg/L	Yearly	DRY	DRY	DRY	DRY
Nickel	mg/L	Yearly	DRY	DRY	DRY	DRY
Zinc	mg/L	Yearly	DRY	DRY	DRY	DRY
Oil and Grease	mg/L	Quarterly	DRY	DRY	DRY	DRY
Total Phenols	µg/L	Yearly	DRY	DRY	DRY	DRY
Organochlorine Pesticides	µg/L	Yearly	DRY	DRY	DRY	DRY
Organophosphate Pesticides	µg/L	Yearly	DRY	DRY	DRY	DRY

MONITORING POINT 9 - Groundwater Bore (FRMB04 - GW10)

Pollutant	Unit of measure	Monitoring Frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			4/03/2021	8/06/2021	1/09/2021	2/12/2021
			Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
			8/03/2021	10/06/2021		6/12/2021
			Value	Value	Value	Value
pH	pH Value	Quarterly	DRY	DRY	DRY	DRY
Electrical Conductivity	µS/cm	Quarterly	DRY	DRY	DRY	DRY
Calcium	mg/L	Quarterly	DRY	DRY	DRY	DRY
Magnesium	mg/L	Quarterly	DRY	DRY	DRY	DRY
Sodium	mg/L	Quarterly	DRY	DRY	DRY	DRY
Potassium	mg/L	Quarterly	DRY	DRY	DRY	DRY
Sulfate	mg/L	Quarterly	DRY	DRY	DRY	DRY
Chloride	mg/L	Quarterly	DRY	DRY	DRY	DRY
Fluoride	mg/L	Quarterly	DRY	DRY	DRY	DRY
Ammonia	mg/L	Quarterly	DRY	DRY	DRY	DRY
Nitrate+nitrite (oxidised nitrogen)	mg/L	Quarterly	DRY	DRY	DRY	DRY
Total Phosphorus	mg/L	Quarterly	DRY	DRY	DRY	DRY
Soluble Phosphorus	mg/L	Quarterly	DRY	DRY	DRY	DRY
Biological Oxygen Demand	mg/L	Quarterly	DRY	DRY	DRY	DRY
Total Organic Carbon	mg/L	Quarterly	DRY	DRY	DRY	DRY
Dissolved Organic Carbon	mg/L	Yearly	DRY	DRY	DRY	DRY
Iron (Dissolved)	mg/L	Quarterly	DRY	DRY	DRY	DRY
Aluminium	mg/L	Yearly	DRY	DRY	DRY	DRY
Arsenic	mg/L	Yearly	DRY	DRY	DRY	DRY
Copper	mg/L	Yearly	DRY	DRY	DRY	DRY
Cadmium	mg/L	Yearly	DRY	DRY	DRY	DRY
Iron (Total)	mg/L	Yearly	DRY	DRY	DRY	DRY
Manganese	mg/L	Yearly	DRY	DRY	DRY	DRY
Mercury	mg/L	Yearly	DRY	DRY	DRY	DRY
Lead	mg/L	Yearly	DRY	DRY	DRY	DRY
Nickel	mg/L	Yearly	DRY	DRY	DRY	DRY
Zinc	mg/L	Yearly	DRY	DRY	DRY	DRY
Oil and Grease	mg/L	Quarterly	DRY	DRY	DRY	DRY
Total Phenols	µg/L	Yearly	DRY	DRY	DRY	DRY
Organochlorine Pesticides	µg/L	Yearly	DRY	DRY	DRY	DRY
Organophosphate Pesticides	µg/L	Yearly	DRY	DRY	DRY	DRY

MONITORING POINT 18 - Groundwater Bore (FRMB07 - GW14)

Pollutant	Unit of measure	Monitoring Frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			3/03/2021	1/06/2021	1/09/2021	1/12/2021
			Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
			16/03/2021	22/06/2021	10/09/2021	13/12/2021
			Value	Value	Value	Value
pH	pH Value	Quarterly	6.7	6.8	6.8	6.7
Electrical Conductivity	µS/cm	Quarterly	1300	1300	1300	1300
Calcium	mg/L	Quarterly	141	130	118	118
Magnesium	mg/L	Quarterly	13	14	12	12
Sodium	mg/L	Quarterly	138	147	137	142
Potassium	mg/L	Quarterly	4	4	4	4
Sulfate	mg/L	Quarterly	28	28	29	31
Chloride	mg/L	Quarterly	158	167	155	155
Fluoride	mg/L	Quarterly	0.12	<0.1	<0.2	<0.2
Ammonia	mg/L	Quarterly	<0.01	<0.01	<0.1	<0.01
Nitrate+nitrite (oxidised nitrogen)	mg/L	Quarterly	3.23	3.27	3.6	3.79
Total Phosphorus	mg/L	Quarterly	<0.01	0.02	0.05	<0.01
Soluble Phosphorus	mg/L	Quarterly	0.01	0.01	0.03	0.01
Biological Oxygen Demand	mg/L	Quarterly	<2	2	<2	<2
Total Organic Carbon	mg/L	Quarterly	<1	<1	<1	<1
Dissolved Organic Carbon	mg/L	Yearly	N/A	N/A	N/A	2.0
Iron (Dissolved)	mg/L	Quarterly	<0.05	<0.05	<0.05	<0.05
Aluminium	mg/L	Yearly	N/A	N/A	N/A	<0.01
Arsenic	mg/L	Yearly	N/A	N/A	N/A	<0.001
Copper	mg/L	Yearly	N/A	N/A	N/A	0.0
Cadmium	mg/L	Yearly	N/A	N/A	N/A	<0.0001
Iron (Total)	mg/L	Yearly	N/A	N/A	N/A	<0.05
Manganese	mg/L	Yearly	N/A	N/A	N/A	<0.001
Mercury	mg/L	Yearly	N/A	N/A	N/A	<0.0001
Lead	mg/L	Yearly	N/A	N/A	N/A	<0.001
Nickel	mg/L	Yearly	N/A	N/A	N/A	<0.001
Zinc	mg/L	Yearly	N/A	N/A	N/A	0.0
Oil and Grease	mg/L	Quarterly	<5	<5	<5	<5
Total Phenols	µg/L	Yearly	N/A	N/A	N/A	<0.05
Organochlorine Pesticides	µg/L	Yearly	N/A	N/A	N/A	<LOR
Organophosphate Pesticides	µg/L	Yearly	N/A	N/A	N/A	<LOR

MONITORING POINT 19 - Groundwater Bore (FRMB09 - GW15)

Pollutant	Unit of measure	Monitoring Frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			3/03/2021	1/06/2021	1/09/2021	1/12/2021
			Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
			16/03/2021	22/06/2021	10/09/2021	13/12/2021
			Value	Value	Value	Value
pH	pH Value	Quarterly	6.5	6.7	6.7	6.7
Electrical Conductivity	µS/cm	Quarterly	2400	2500	2400	2300
Calcium	mg/L	Quarterly	262	245	224	227
Magnesium	mg/L	Quarterly	97	105	91	90
Sodium	mg/L	Quarterly	136	140	128	125
Potassium	mg/L	Quarterly	2	2	2	2
Sulfate	mg/L	Quarterly	106	124	101	113
Chloride	mg/L	Quarterly	470	483	449	415
Fluoride	mg/L	Quarterly	0.35	0.34	0.4	0.39
Ammonia	mg/L	Quarterly	0.36	0.02	<0.1	<0.01
Nitrate+nitrite (oxidised nitrogen)	mg/L	Quarterly	5.80	7.76	6.6	4.68
Total Phosphorus	mg/L	Quarterly	0.06	0.03	0.07	0.01
Soluble Phosphorus	mg/L	Quarterly	0.04	0.02	0.04	0.02
Biological Oxygen Demand	mg/L	Quarterly	<2	<2	<2	<2
Total Organic Carbon	mg/L	Quarterly	2	3	<1	1
Dissolved Organic Carbon	mg/L	Yearly	N/A	N/A	N/A	1
Iron (Dissolved)	mg/L	Quarterly	<0.05	<0.05	<0.05	<0.05
Aluminium	mg/L	Yearly	N/A	N/A	N/A	<0.01
Arsenic	mg/L	Yearly	N/A	N/A	N/A	<0.001
Copper	mg/L	Yearly	N/A	N/A	N/A	0.006
Cadmium	mg/L	Yearly	N/A	N/A	N/A	<0.0001
Iron (Total)	mg/L	Yearly	N/A	N/A	N/A	<0.05
Manganese	mg/L	Yearly	N/A	N/A	N/A	0.024
Mercury	mg/L	Yearly	N/A	N/A	N/A	<0.0001
Lead	mg/L	Yearly	N/A	N/A	N/A	<0.001
Nickel	mg/L	Yearly	N/A	N/A	N/A	0.002
Zinc	mg/L	Yearly	N/A	N/A	N/A	0.01
Oil and Grease	mg/L	Quarterly	<5	<5	<5	<5
Total Phenols	µg/L	Yearly	N/A	N/A	N/A	<0.05
Organochlorine Pesticides	µg/L	Yearly	N/A	N/A	N/A	<LOR
Organophosphate Pesticides	µg/L	Yearly	N/A	N/A	N/A	<LOR

MONITORING POINT 20 - Groundwater Bore (FRMB03-GW17)

Pollutant	Unit of measure	Monitoring Frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			3/03/2021	1/06/2021	1/09/2021	1/12/2021
			Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
			16/03/2021	22/06/2021	10/09/2021	13/12/2021
			Value	Value	Value	Value
pH	pH Value	Quarterly	DRY	DRY	DRY	DRY
Electrical Conductivity	µS/cm	Quarterly	DRY	DRY	DRY	DRY
Calcium	mg/L	Quarterly	DRY	DRY	DRY	DRY
Magnesium	mg/L	Quarterly	DRY	DRY	DRY	DRY
Sodium	mg/L	Quarterly	DRY	DRY	DRY	DRY
Potassium	mg/L	Quarterly	DRY	DRY	DRY	DRY
Sulfate	mg/L	Quarterly	DRY	DRY	DRY	DRY
Chloride	mg/L	Quarterly	DRY	DRY	DRY	DRY
Fluoride	mg/L	Quarterly	DRY	DRY	DRY	DRY
Ammonia	mg/L	Quarterly	DRY	DRY	DRY	DRY
Total Nitrogen	mg/L	Quarterly	DRY	DRY	DRY	DRY
Total Phosphorus	mg/L	Quarterly	DRY	DRY	DRY	DRY
Soluble Phosphorus	mg/L	Quarterly	DRY	DRY	DRY	DRY
Biological Oxygen Demand	mg/L	Quarterly	DRY	DRY	DRY	DRY
Total Organic Carbon	mg/L	Quarterly	DRY	DRY	DRY	DRY
Dissolved Organic Carbon	mg/L	Yearly	DRY	DRY	DRY	DRY
Iron (Dissolved)	mg/L	Quarterly	DRY	DRY	DRY	DRY
Aluminium	mg/L	Yearly	DRY	DRY	DRY	DRY
Arsenic	mg/L	Yearly	DRY	DRY	DRY	DRY
Copper	mg/L	Yearly	DRY	DRY	DRY	DRY
Cadmium	mg/L	Yearly	DRY	DRY	DRY	DRY
Iron (Total)	mg/L	Yearly	DRY	DRY	DRY	DRY
Manganese	mg/L	Yearly	DRY	DRY	DRY	DRY
Mercury	mg/L	Yearly	DRY	DRY	DRY	DRY
Lead	mg/L	Yearly	DRY	DRY	DRY	DRY
Nickel	mg/L	Yearly	DRY	DRY	DRY	DRY
Zinc	mg/L	Yearly	DRY	DRY	DRY	DRY
Oil and Grease	mg/L	Quarterly	DRY	DRY	DRY	DRY
Total Phenols	µg/L	Yearly	DRY	DRY	DRY	DRY
Organochlorine Pesticides	µg/L	Yearly	DRY	DRY	DRY	DRY
Organophosphate Pesticides	µg/L	Yearly	DRY	DRY	DRY	DRY

MONITORING POINT 13 - Methane (Capped area)

Pollutant	Unit of Measure	Monitoring Frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			4/03/2021	8/06/2021	15/09/2021	2/12/2021
			Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
			8/03/2021	10/06/2021	20/09/2021	6/12/2021
			Value	Value	Value	Value
Methane	%/volume	Quarterly	<0.05	<0.05	<0.05	<0.05

MONITORING POINT 15 - Methane (G8)

Pollutant	Unit of Measure	Monitoring Frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			4/03/2021	8/06/2021	15/09/2021	2/12/2021
			Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
			8/03/2021	10/06/2021	20/09/2021	6/12/2021
			Value	Value	Value	Value
Methane	%/volume	Quarterly	<0.05	<0.05	<0.05	<0.05

MONITORING POINT 16 - Methane (G9)

Pollutant	Unit of Measure	Monitoring Frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			4/03/2021	8/06/2021	15/09/2021	2/12/2021
			Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
			8/03/2021	10/06/2021	20/09/2021	6/12/2021
			Value	Value	Value	Value
Methane	%/volume	Quarterly	<0.05	<0.05	<0.05	<0.05