



**Bowral Waste Centre**  
**EPA Licence No: 13366**  
**Monitoring Point 2**

(UTM Zone 56: 262080.407 East, 6180766.636 North)

Leachate Quality Monitoring

Leachate holding dam as identified in Licence Variation Application to the EPA on 10 February 2021 - Proposed monitoring points - CM

Sampling frequency: Yearly

Pollutant	Unit of Measure	100 Percentile Concentration Limit	No. of Samples Required by Licence	Total no. of samples collected and analysed	Results
					19/05/2026
Alkalinity (as CaCO <sub>3</sub> )	mg/L	<i>No concentration limits apply - sampling for monitoring purposes only</i>	1	1	1130
Aluminium (Al)	mg/L		1	1	0.82
Arsenic (As)	mg/L		1	1	0.004
Barium (Ba)	mg/L		1	1	0.64
Benzene	mg/L		1	1	<1
Cadmium (Cd)	mg/L		1	1	<0.0001
Calcium (Ca)	mg/L		1	1	116
Chemical Oxygen Demand	mg/L		1	1	205
Cobalt	mg/L		1	1	0.007
Chromium (total hexavalent)	mg/L		1	1	<0.01
Chromium (total)	mg/L		1	1	0.034
Chloride (Cl)	mg/L		1	1	161
Conductivity	(µS/cm)		1	1	2470
Copper (Cu)	mg/L		1	1	0.009
Dissolved Organic Carbon	mg/L		1	1	62
Ethyl Benzene	mg/L		1	1	<2
Fluoride (F)	mg/L		1	1	0.6
Lead (Pb)	mg/L		1	1	0.004
Magnesium (Mg)	mg/L		1	1	66
Manganese (Mn)	mg/L		1	1	0.797
Mercury (Hg)	mg/L		1	1	<0.0001
Nitrate + Nitrite	mg/L		1	1	5.34
Nitrogen as Ammonia (NH <sub>3</sub> )	mg/L		1	1	120
Organochlorine Pesticides	mg/L		1	1	<0.5
Organophosphate Pesticides	mg/L		1	1	<0.5
pH	pH Units		1	1	7.89
Phosphate (PO <sub>4</sub> )	mg/L		1	1	
Phosphorus (P)	mg/L		1	1	0.18
Polychlorinated biphenyls (mg/L)	mg/L		1	1	<1
Polycyclic Aromatic Hydrocarbons (mg/L)	mg/L		1	1	<0.5
Potassium (K)	mg/L		1	1	36
Sodium (Na)	mg/L		1	1	104
Sulfate (SO <sub>4</sub> )	mg/L		1	1	29
Toluene	mg/L	1	1	<2	
Total Iron (Fe)	mg/L	1	1	5.51	
Total Petroleum Hydrocarbons (C6-C9)	mg/L	1	1	<20	
Total Phenolics	mg/L	1	1	<0.05	
Xylene	mg/L	1	1	<2	
Zinc (Zn)	mg/L	1	1	0.005	

BDL \*Below detection limit.

**Bowral Waste Centre**

**EPA Licence No: 13366**

**Monitoring Point 3**

(Zone 56: 262079.587 East, 6180676.705 North)

Groundwater Quality Monitoring

Groundwater monitoring location P1-A as identified in Licence Variation Application to the EPA on 10 February 2021 - Proposed monitoring points - CM9 DOC 21/142907

Sampling frequency: Every 6 months

Pollutant	Unit of Measure	100 Percentile Concentration Limit	No. of Samples Required by Licence	Total no. of samples collected and analysed	Lowest sample value	Highest sample value	Mean of samples	Results	
								23/04/2026	
Alkalinity (as CaCO <sub>3</sub> )	mg/L	<i>No concentration limits apply - sampling for monitoring purposes only</i>	1	1	910	910	910	910	
Aluminium (Al)	mg/L		1	1	0	0	#DIV/0!	<LOR	
Calcium (Ca)	mg/L		1	1	140	140	140	140	
Chloride (Cl)	mg/L		1	1	84	84	84	84	
Conductivity	(µS/cm)		1	1	1700	1700	1700	1700	
Copper (Cu)	mg/L		1	1	0	0	#DIV/0!	<LOR	
Fluoride (F)	mg/L		1	1	0.7	0.7	1	0.7	
Iron	mg/L		1	1	2.1	2.1	2	2.1	
Lead (Pb)	mg/L		1	1	0	0	#DIV/0!	<LOR	
Magnesium (Mg)	mg/L		1	1	98	98	98	98	
Manganese (Mn)	mg/L		1	1	0.12	0.12	0	0.12	
Nitrate	mg/L		1	1	0.2	0.2	0	0.2	
Nitrogen as Ammonia (NH <sub>3</sub> )	mg/L		1	1	0.9	0.9	1	0.9	
pH	pH Units		1	1	7.2	7.2	7	7.2	
Potassium (K)	mg/L		1	1	8.7	8.7	9	8.7	
Sodium (Na)	mg/L		1	1	65	65	65	65	
Standing Water Level	metres		1	1	25.59	25.59	26	25.59	
Sulfate (SO <sub>4</sub> )	mg/L		1	1	34	34	34	34	
Total dissolved solids	mg/L		1	1	860	860	860	860	
Total organic carbon	mg/L		1	1	0	0	#DIV/0!	<LOR	
Total Phenolics	mg/L	1	1	0	0	#DIV/0!	<LOR		
Zinc (Zn)	mg/L	1	1	0.014	0.014	0	0.014		

*BDL\*Below detection limit.*

**EPA Licence No: 13366**

**Monitoring Point 4**

(Zone 56: 262079.587 East, 6180676.705 North)

Groundwater Quality Monitoring

Groundwater monitoring location P1-A as identified in Licence Variation Application to the EPA on 10 February 2021 - Proposed monitoring points - CM9 DOC 21/142907

Sampling frequency: Every 6 months

Pollutant	Unit of Measure	100 Percentile Concentration Limit	No. of Samples Required by Licence	Total no. of samples collected and analysed	Lowest sample value	Highest sample value	Mean of samples	Results	
								23/04/2026	
Alkalinity (as CaCO <sub>3</sub> )	mg/L	<i>No concentration limits apply - sampling for monitoring purposes only</i>	1	1	160	160	160	160	
Aluminium (Al)	mg/L		1	1	0	0	#DIV/0!	<LOR	
Calcium (Ca)	mg/L		1	1	36	36	36	36	
Chloride (Cl)	mg/L		1	1	100	100	100	100	
Conductivity	(µS/cm)		1	1	650	650	650	650	
Copper (Cu)	mg/L		1	1	0	0	#DIV/0!	<LOR	
Fluoride (F)	mg/L		1	1	0.4	0.4	0	0.4	
Iron	mg/L		1	1	0	0	#DIV/0!	<LOR	
Lead (Pb)	mg/L		1	1	0	0	#DIV/0!	<LOR	
Magnesium (Mg)	mg/L		1	1	27	27	27	27	
Manganese (Mn)	mg/L		1	1	0.008	0.008	0	0.008	
Nitrate	mg/L		1	1	0.18	0.18	0	0.18	
Nitrogen as Ammonia (NH <sub>3</sub> )	mg/L		1	1	0	0	#DIV/0!	<LOR	
pH	pH Units		1	1	6.6	6.6	7	6.6	
Potassium (K)	mg/L		1	1	2.7	2.7	3	2.7	
Sodium (Na)	mg/L		1	1	37	37	37	37	
Standing Water Level	metres		1	1	36.65	36.65	37	36.65	
Sulfate (SO <sub>4</sub> )	mg/L		1	1	11	11	11	11	
Total dissolved solids	mg/L		1	1	340	340	340	340	
Total organic carbon	mg/L		1	1	0	0	#DIV/0!	<LOR	
Total Phenolics	mg/L	1	1	0	0	#DIV/0!	<LOR		
Zinc (Zn)	mg/L	1	1	0	0	#DIV/0!	<LOR		

*BDL\*Below detection limit.*

**EPA Licence No: 13366**

**Monitoring Point 5**

(Zone 56: 262079.587 East, 6180676.705 North)

Groundwater Quality Monitoring

Groundwater monitoring location P1-A as identified in Licence Variation Application to the EPA on 10 February 2021 - Proposed monitoring points - CM9 DOC 21/142907

Sampling frequency: Every 6 months

Pollutant	Unit of Measure	100 Percentile Concentration Limit	No. of Samples Required by Licence	Total no. of samples collected and analysed	Lowest sample value	Highest sample value	Mean of samples	Results	
								23/04/2026	
Alkalinity (as CaCO <sub>3</sub> )	mg/L	<i>No concentration limits apply - sampling for monitoring purposes only</i>	1	2	180	180	180	180	
Aluminium (Al)	mg/L		1	2	0	0	#DIV/0!	<LOR	
Calcium (Ca)	mg/L		1	2	44	44	44	44	
Chloride (Cl)	mg/L		1	2	37	37	37	37	
Conductivity	(µS/cm)		1	2	670	670	670	670	
Copper (Cu)	mg/L		1	2	0	0	#DIV/0!	<LOR	
Fluoride (F)	mg/L		1	2	0	0	#DIV/0!	<LOR	
Iron	mg/L		1	2	0	0	#DIV/0!	<LOR	
Lead (Pb)	mg/L		1	2	0	0	#DIV/0!	<LOR	
Magnesium (Mg)	mg/L		1	2	33	33	33	33	
Manganese (Mn)	mg/L		1	2	0.088	0.088	0.088	0.088	
Nitrate	mg/L		1	2	0.07	0.07	0.070	0.07	
Nitrogen as Ammonia (NH <sub>3</sub> )	mg/L		1	2	0.02	0.02	0	0.02	
pH	pH Units		1	2	6.4	6.4	6.40	6.4	
Potassium (K)	mg/L		1	2	3.6	3.6	4	3.6	
Sodium (Na)	mg/L		1	2	30	30	30	30	
Standing Water Level	metres		1	2	18.1	18.1	18	18.1	
Sulfate (SO <sub>4</sub> )	mg/L		1	2	120	120	120	120	
Total dissolved solids	mg/L		1	2	360	360	360	360	
Total organic carbon	mg/L		1	2	0	0	#DIV/0!	<LOR	
Total Phenolics	mg/L	1	2	0	0	#DIV/0!	<LOR		
Zinc (Zn)	mg/L	1	2	0	0	#DIV/0!	<LOR		

*BDL\*Below detection limit.*

**EPA Licence No: 13366**

**Monitoring Point 6**

(Zone 56: 262079.587 East, 6180676.705 North)

Groundwater Quality Monitoring

Groundwater monitoring location P1-A as identified in Licence Variation Application to the EPA on 10 February 2021 - Proposed monitoring points - CM9 DOC 21/142907

Sampling frequency: Every 6 months

Pollutant	Unit of Measure	100 Percentile Concentration Limit	No. of Samples Required by Licence	Total no. of samples collected and analysed	Lowest sample value	Highest sample value	Mean of samples	Results	
								23/04/2026	
Alkalinity (as CaCO <sub>3</sub> )	mg/L	<i>No concentration limits apply - sampling for monitoring purposes only</i>	1	2	160	160	160	160	
Aluminium (Al)	mg/L		1	2	0	0	#DIV/0!	<LOR	
Calcium (Ca)	mg/L		1	2	32	32	32	32	
Chloride (Cl)	mg/L		1	2	79	79	79	79	
Conductivity	(µ/cm)		1	2	600	600	600	600	
Copper (Cu)	mg/L		1	2	0	0	#DIV/0!	<LOR	
Fluoride (F)	mg/L		1	2	0.5	0.5	1	0.5	
Iron	mg/L		1	2	0	0	#DIV/0!	<LOR	
Lead (Pb)	mg/L		1	2	0	0	#DIV/0!	<LOR	
Magnesium (Mg)	mg/L		1	2	27	27	27	27	
Manganese (Mn)	mg/L		1	2	0	0	#DIV/0!	<LOR	
Nitrate	mg/L		1	2	0.21	0.21	0	0.21	
Nitrogen as Ammonia (NH <sub>3</sub> )	mg/L		1	2	0	0	#DIV/0!	<LOR	
pH	pH Units		1	2	6.9	6.9	7	6.9	
Potassium (K)	mg/L		1	2	2.5	2.5	3	2.5	
Sodium (Na)	mg/L		1	2	34	34	34	34	
Standing Water Level	metres		1	2	34.93	34.93	35	34.93	
Sulfate (SO <sub>4</sub> )	mg/L		1	2	12	12	12	12	
Total dissolved solids	mg/L		1	2	320	320	320	320	
Total organic carbon	mg/L		1	2	0	0	#DIV/0!	<LOR	
Total Phenolics	mg/L	1	2	0	0	#DIV/0!	<LOR		
Zinc (Zn)	mg/L	1	2	0	0	#DIV/0!	<LOR		

*BDL\*Below detection limit.*

**EPA Licence No: 13366**

**Monitoring Point 7**

(Zone 56: 262079.587 East, 6180676.705 North)

Groundwater Quality Monitoring

Groundwater monitoring location P1-A as identified in Licence Variation Application to the EPA on 10 February 2021 - Proposed monitoring points - CM9 DOC 21/142907

Sampling frequency: Every 6 months

Pollutant	Unit of Measure	100 Percentile Concentration Limit	No. of Samples Required by Licence	Total no. of samples collected and analysed	Lowest sample value	Highest sample value	Mean of samples	Results	
								23/04/2026	
Alkalinity (as CaCO <sub>3</sub> )	mg/L	<i>No concentration limits apply - sampling for monitoring purposes only</i>	1	1	190	190	190	190	
Aluminium (Al)	mg/L		1	2	0	0	#DIV/0!	<LOR	
Calcium (Ca)	mg/L		1	1	46	46	46	46	
Chloride (Cl)	mg/L		1	1	120	120	120	120	
Conductivity	(µS/cm)		1	1	780	780	780	780	
Copper (Cu)	mg/L		1	2	0	0	#DIV/0!	<LOR	
Fluoride (F)	mg/L		1	1	0.5	0.5	0.5	0.5	
Iron	mg/L		1	2	0	0	#DIV/0!	<LOR	
Lead (Pb)	mg/L		1	2	0	0	#DIV/0!	<LOR	
Magnesium (Mg)	mg/L		1	1	32	32	32	32	
Manganese (Mn)	mg/L		1	1	0.049	0.049	0.049	0.049	
Nitrate	mg/L		1	2	0.36	0.36	0.360	0.36	
Nitrogen as Ammonia (NH <sub>3</sub> )	mg/L		1	0	0	0	#DIV/0!	<LOR	
pH	pH Units		1	1	6.6	6.6	6.60	6.6	
Potassium (K)	mg/L		1	1	4.8	4.8	5	4.8	
Sodium (Na)	mg/L		1	1	42	42	42	42	
Standing Water Level	metres		1	1	30.35	30.35	30	30.35	
Sulfate (SO <sub>4</sub> )	mg/L		1	1	4.6	4.6	5	4.6	
Total dissolved solids	mg/L		1	1	430	430	430	430	
Total organic carbon	mg/L		1	2	0	0	#DIV/0!	<LOR	
Total Phenolics	mg/L	1	2	0	0	#DIV/0!	<LOR		
Zinc (Zn)	mg/L	1	2	0	0	#DIV/0!	<LOR		

\*Below detection limit.

**EPA Licence No: 13366**

**Monitoring Point 8**

(Zone 56: 262079.587 East, 6180676.705 North)

Groundwater Quality Monitoring

Groundwater monitoring location P1-A as identified in Licence Variation Application to the EPA on 10 February 2021 - Proposed monitoring points - CM9 DOC 21/142907

Sampling frequency: Every 6 months

Pollutant	Unit of Measure	100 Percentile Concentration Limit	No. of Samples Required by Licence	Total no. of samples collected and analysed	Lowest sample value	Highest sample value	Mean of samples	Results	
								23/04/2026	
Alkalinity (as CaCO <sub>3</sub> )	mg/L	<i>No concentration limits apply - sampling for monitoring purposes only</i>	1	1	140	140	140	140	
Aluminium (Al)	mg/L		1	2	0	0	#DIV/0!	<LOR	
Calcium (Ca)	mg/L		1	1	28	28	28	28	
Chloride (Cl)	mg/L		1	1	62	62	62	62	
Conductivity	(µS/cm)		1	1	520	520	520	520	
Copper (Cu)	mg/L		1	2	0	0	#DIV/0!	<LOR	
Fluoride (F)	mg/L		1	1	0.5	0.5	0.5	0.5	
Iron	mg/L		1	2	0	0	#DIV/0!	<LOR	
Lead (Pb)	mg/L		1	2	0	0	#DIV/0!	<LOR	
Magnesium (Mg)	mg/L		1	1	21	21	21	21	
Manganese (Mn)	mg/L		1	1	0.2	0.2	0.200	0.2	
Nitrate	mg/L		1	2	0.28	0.28	0.280	0.28	
Nitrogen as Ammonia (NH <sub>3</sub> )	mg/L		1	1	0.02	0.02	0	0.02	
pH	pH Units		1	1	6.5	6.5	6.50	6.5	
Potassium (K)	mg/L		1	1	3.8	3.8	4	3.8	
Sodium (Na)	mg/L		1	1	33	33	33	33	
Standing Water Level	metres		1	1	36.1	36.1	36	36.1	
Sulfate (SO <sub>4</sub> )	mg/L		1	1	3.4	3.4	3	3.4	
Total dissolved solids	mg/L		1	1	260	260	260	260	
Total organic carbon	mg/L		1	2	0	0	#DIV/0!	<LOR	
Total Phenolics	mg/L	1	2	0	0	#DIV/0!	<LOR		
Zinc (Zn)	mg/L	1	0	0	0	#DIV/0!	<LOR		

\*Below detection limit.

