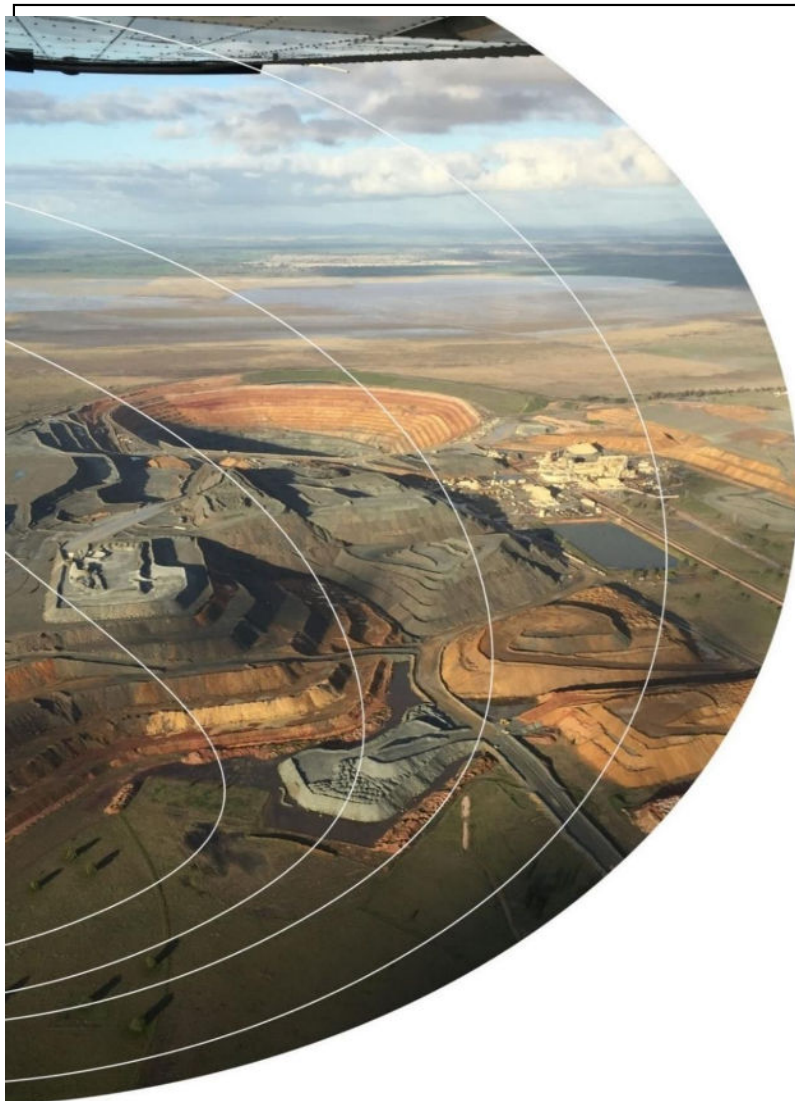




Environmental Monitoring Data

July 2025

EPL No: 11912
Licensee: Evolution Mining (Cowal) Pty Limited
Address: PO Box 210 West Wyalong NSW 2671
<http://www.epa.nsw.gov.au/licensing-and-regulation/public-registers>



Dust

Monitoring Point: 1 <McIntocks Shed>

Dust monitoring, Dust gauge located on private property to the west of ML1535 boundary

Frequency	Date Collected	Date Obtained	Date Published	Particulates (g/m ³ /mth)	Comments
Monthly	08/01/2025	28/01/2025	25/02/2025	0.51	Water, bugs, insects, debris
Monthly	06/02/2025	21/02/2025	20/03/2025	5.77	Water (green), Insects, Dragonfly wing, Debris
Monthly	10/03/2025	28/03/2025	29/04/2025	18.94	Water (brown), Funnel Blocked, Bugs, Insects
Monthly	10/04/2025	01/05/2025	22/05/2025	3.38	Water, Bugs, Dust
Monthly	12/05/2025	04/06/2025	30/06/2025	6.74	Funnel blocked with plant matter
Monthly	12/06/2025	27/06/2025	28/07/2025	4.19	Water, Dust, Plant Matter, Paddocks surrounding recently sowed
Monthly	14/07/2025	04/08/2025	28/08/2025	5.81	Water, Dust, Debris
Monthly					
Monthly					
Monthly					
Monthly					
Number of Samples Collected				7	
Lowest Value				0.5	
Mean of Sample				6.5	
Highest Sample Value				18.9	
Median				5.8	

Monitoring Point: 2 <Site Office>

Dust monitoring, Dust gauge located on private property to the south of ML1535 boundary

Frequency	Date Collected	Date Obtained	Date Published	Particulates (g/m ³ /mth)	Comments
Monthly	08/01/2025	28/01/2025	25/02/2025	0.60	Water, Bugs, Debris
Monthly	06/02/2025	21/02/2025	20/03/2025	1.89	Water (greenish), Insects, cricket, Debris
Monthly	10/03/2025	28/03/2025	29/04/2025	4.55	Water, Insects, bugs, Cable tie
Monthly	10/04/2025	01/05/2025	22/05/2025	1.81	Water, Insects
Monthly	12/05/2025	04/06/2025	30/06/2025	5.84	Insects, Debris, Water
Monthly	12/06/2025	27/06/2025	28/07/2025	8.28	Water, Dust, Insects, Plant Matter
Monthly	14/07/2025	04/08/2025	28/08/2025	1.70	Water, Dust, Debris
Monthly					
Monthly					
Monthly					
Monthly					
Monthly					
Number of Samples Collected				7	
Lowest Value				0.6	
Mean of Sample				3.5	
Highest Sample Value				8.3	
Median				1.9	

Monitoring Point: 3 <DG06>

Dust monitoring, Dust gauge located on private property to the east of ML1535 boundary

Frequency	Date Collected	Date Obtained	Date Published	Particulates (g/m ³ /mth)	Comments
Monthly	08/01/2025	28/01/2025	25/02/2025	0.38	Water, lid, debris, insects
Monthly	06/02/2025	21/02/2025	20/03/2025	1.29	Water, Insects, Bugs
Monthly	10/03/2025	28/03/2025	29/04/2025	0.59	Water, Insects, Bugs
Monthly	10/04/2025	01/05/2025	22/05/2025	1.08	Water, Insects
Monthly	12/05/2025	04/06/2025	30/06/2025	7.87	Debris, Water
Monthly	12/06/2025	27/06/2025	28/07/2025	0.38	Water, Dust, Insects
Monthly	14/07/2025	04/08/2025	28/08/2025	0.21	Water, Insects
Monthly					
Monthly					
Monthly					
Monthly					
Monthly					
Number of Samples Collected				7	
Lowest Value				0.2	
Mean of Sample				1.7	
Highest Sample Value				7.9	
Median				0.6	

Monitoring Point: 4 <DG09>

Dust monitoring, Dust gauge located on private property to the south of ML1535 boundary

Frequency	Date Collected	Date Obtained	Date Published	Particulates (g/m ³ /mth)	Comments
Monthly	08/01/2025	28/01/2025	25/02/2025	0.53	Water, debris, insects, bugs
Monthly	06/02/2025	21/02/2025	20/03/2025	0.78	Water, Bugs, Earwigs
Monthly	10/03/2025	28/03/2025	29/04/2025	1.28	Water, Insects, Bugs
Monthly	10/04/2025	01/05/2025	22/05/2025	0.84	Water, Insects
Monthly	12/05/2025	04/06/2025	30/06/2025	4.57	Insects
Monthly	12/06/2025	27/06/2025	28/07/2025	0.05	Water, Dust, Insects
Monthly	14/07/2025	04/08/2025	28/08/2025	0.18	Water, Insects, Spider
Monthly					
Monthly					
Monthly					
Monthly					
Monthly					
Number of Samples Collected				7	
Lowest Value				0.0	
Mean of Sample				1.2	
Highest Sample Value				4.6	
Median				0.8	

Monitoring Point: 5 <Site 52>

Dust monitoring, Dust gauge located within ML1535 and north of the open pit

Frequency	Date Collected	Date Obtained	Date Published	Particulates (g/m ³ /mth)	Comments
Monthly	08/01/2025	28/01/2025	25/02/2025	2.53	Water, Insects, debris
Monthly	06/02/2025	21/02/2025	20/03/2025	1.19	Water, Insects, Bugs, Moth
Monthly	10/03/2025	28/03/2025	29/04/2025	3.31	Water, Algae, Insects
Monthly	10/04/2025	01/05/2025	22/05/2025	4.15	Water, Bugs, Worm, Spider Web
Monthly	12/05/2025	04/06/2025	30/06/2025	8.89	Debris (minimal)
Monthly	12/06/2025	27/06/2025	28/07/2025	3.63	Water, Dust, White Worms
Monthly	14/07/2025	04/08/2025	28/08/2025	2.39	Water, Dust, Lots of ground disturbance around monitoring location
Monthly					
Monthly					
Monthly					
Monthly					
Monthly					
Number of Samples Collected				7	
Lowest Value				1.2	
Mean of Sample				3.7	
Highest Sample Value				8.9	
Median				3.3	



Dust monitoring, Dust gauge located on private property to the north of ML1535 boundary

Dust monitoring, High volume sampler located on private property to the north of ML1535 boundary

[illegible]



Surface Water

Monitoring Point: 12 <D1>

Stormwater quality monitoring, Northern waste emplacement contained water storage

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	Total Suspended Solids (mg/L)	Comments
Monthly	28/01/2025	07/02/2025	25/02/2025	8.06	7742	17	
Monthly	10/02/2025	18/02/2025	20/03/2025	8.64	8704	9	
Monthly	10/03/2025	18/03/2025	29/04/2025	7.21	9387	21	
Monthly	15/04/2025	28/04/2025	22/05/2025	7.11	10124	12	
Monthly	07/05/2025	14/05/2025	30/06/2025	7.65	8496	58	
Monthly	11/06/2025	19/06/2025	28/07/2025	9.34	11288	20	
Monthly	07/07/2025	14/07/2025	28/08/2025	9.52	11226	17	
Monthly							
Monthly							
Monthly							
Monthly							
Monthly							
Monthly							
Monthly							
Monthly							
Monthly							
Number of Samples Collected				7.00	7.00	7.00	
Lowest Value				7.11	7742.00	9.00	
Mean of Sample				8.22	9566.72	22.00	
Highest Sample Value				9.52	11288.00	58.00	
Median				8.06	9387.00	17.00	

Monitoring Point: 13 <D4>

Stormwater quality monitoring, Southern waste emplacement contained water storage

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	Total Suspended Solids (mg/L)	Comments
Monthly	28/01/2025	07/02/2025	25/02/2025	7.41	29342	6	
Monthly	10/02/2025	18/02/2025	20/03/2025	7.47	33200	4	
Monthly	10/03/2025	18/03/2025	29/04/2025	6.64	37670	15	
Monthly	15/04/2025	28/04/2025	22/05/2025	6.49	34940	5	
Monthly	07/05/2025	14/05/2025	30/06/2025	6.41	31997	5	
Monthly	11/06/2025	19/06/2025	28/07/2025	8.62	37639	2	
Monthly	07/07/2025	14/07/2025	28/08/2025	8.32	37347	3	
Monthly							
Monthly							
Monthly							
Monthly							
Monthly							
Monthly							
Monthly							
Monthly							
Monthly							
Monthly							
Number of Samples Collected				7.00	7.00	7.00	
Lowest Value				6.41	29342.00	2.00	
Mean of Sample				7.34	34590.74	5.71	
Highest Sample Value				8.62	37670.00	15.00	
Median				7.41	34940.00	5.00	



Monitoring Point: 14 (P1)
Ambient water quality monitoring, Surface water point within ML2535 on Lake Cowal

Frequency	Date Sampled	Date Obtained	Date Published	Aluminum (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Copper (mg/L)	Lead (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Selenium (mg/L)	Total Suspended Solids (mg/L)	Zinc (mg/L)	Comments
Quarterly	2/20/2025	3/10/2025	2/20/2025	238	<0.005	0.005	<0.0005	0.003	<0.005	0.004	0.003	<0.01	131	<0.005	
Quarterly	2/20/2025	6/20/2025	2/20/2025	238	<0.005	0.005	<0.0005	0.003	<0.005	0.005	0.003	<0.01	131	<0.005	
Quarterly	2/20/2025	9/20/2025	2/20/2025	238	<0.005	0.005	<0.0005	0.003	<0.005	0.005	0.003	<0.01	131	<0.005	
Quarterly	2/20/2025	12/20/2025	2/20/2025	238	<0.005	0.005	<0.0005	0.003	<0.005	0.005	0.003	<0.01	131	<0.005	
Annual Value	2/20/2025	2/20/2025	2/20/2025	238	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	129.2	0.0	
Quarterly	2/20/2025	2/20/2025	2/20/2025	238	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	129.2	0.0	
Regulatory Sample Value	2/20/2025	2/20/2025	2/20/2025	238	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	111.0	0.0	

Monitoring Point: 15 (P2)
Ambient water quality monitoring, Surface water point within ML1535 on Lake Cowal

Frequency	Date Sampled	Date Observed	Date Published	Arsenite [mg/L]	Antimony [mg/L]	Arsenic [mg/L]	Cadmium [mg/L]	Copper [mg/L]	Lead [mg/L]	Methylcoburn [mg/L]	Nickel [mg/L]	Selenium [mg/L]	Total Suspended Solids [mg/L]	Zinc [mg/L]	Comments
Quarterly	2/20/2025	3/16/2025	2/26/2025	238	<0.005	0.005	<0.0003	0.003	<0.001	0.004	0.009	<0.001	137	<40.00	
Quarterly	2/20/2025	3/16/2025	2/26/2025	238	<0.005	0.005	<0.0003	0.003	<0.001	0.004	0.009	<0.001	137	<40.00	
Quarterly															
Quarterly															
Current Value				238.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	137.0	0.0	
Current Interval				234.0 - 242.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	132.0 - 142.0	0.0	
Regulatory Sample Value				234.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	132.0	0.0	

Monitoring Point: 16 (P3)
Ambient water quality monitoring, Surface water point within ML1535 on Lake Cowal

Frequency	Date Sampled	Date Obtained	Date Published	Aluminum [mg/L]	Antimony [mg/L]	Arsenic [mg/L]	Cadmium [mg/L]	Copper [mg/L]	Lead [mg/L]	Molybdenum [mg/L]	Nickel [mg/L]	Selenium [mg/L]	Total Suspended Solids [mg/L]	Zinc [mg/L]	Comments
Quarterly	2/20/2025	3/16/2025	2/26/2025	228	<0.05	0.005	<0.003	0.003	<0.003	0.004	<0.09	<0.05	287	<0.05	
Quarterly	2/20/2025	6/20/2025	2/20/2025	228	<0.05	0.005	<0.003	0.003	<0.003	0.004	<0.09	<0.05	287	<0.05	
Quarterly	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Quarterly	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Annual Value	2/27/25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2212	0.0	
Report Sample Value	228	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	287	0.0	

Frequency	Date Sampled	Date Obtained	Date Published	Aluminum [mg/L]	Antimony [mg/L]	Arsenic [mg/L]	Cadmium [mg/L]	Copper [mg/L]	Lead [mg/L]	Molybdenum [mg/L]	Nickel [mg/L]	Selenium [mg/L]	Total Suspended Solids [mg/L]	Zinc [mg/L]	Comments
Quarterly	2/20/2025	3/16/2025	2/26/2025	228	<0.05	0.005	<0.003	0.003	<0.003	0.004	<0.09	<0.05	287	<0.05	
Quarterly	2/20/2025	6/20/2025	2/20/2025	228	<0.05	0.005	<0.003	0.003	<0.003	0.004	<0.09	<0.05	287	<0.05	
Quarterly	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Quarterly	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Operating Value	227.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	272.0	0.0	
Design Limit	227.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	272.0	0.0	
Regulatory Sample Value	228.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	287.0	0.0	



Ambient water quality monitoring, Surface water point within ML1535 on Lake Cowa

Frequencies	Date Sampled	Date Observed	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Copper (mg/L)	Lead (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Selenium (mg/L)	Total Suspended Solids (mg/L)	Zinc (mg/L)	Comments
Quarterly	2/20/2025	3/6/2025	2/6/2025	232	<0.005	0.006	<0.0001	0.003	<0.001	0.004	0.005	<0.01	219	<0.005	
Quarterly	2/20/2025	2/20/2025	2/20/2025	232	<0.005	0.006	<0.0001	0.003	<0.001	0.004	0.005	<0.01	219	<0.005	
Quarterly	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Current Value	232.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	169.0	0.0	
Minimum Allowable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	154.0	0.0	
Regulatory Sample Value	232.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	219.0	0.0	

Ambient water quality monitoring, Surface water point on Lake Cowal to the south-east of ML1535 boundar

Frequency	Date Sampled	Date Observed	Date Published	Alibutity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Copper (mg/L)	Lead (mg/L)	Methylcobalt (mg/L)	Nickel (mg/L)	Selenium (mg/L)	Total Suspended Solids (mg/L)	Zinc (mg/L)	Comments
Quarterly	2/18/2025	3/16/2025	2/26/2025	2.26	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	207	<0.05	No safe access
Quarterly	2/18/2025	3/16/2025	2/26/2025												
Quarterly															
General Use	2/18/2025			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	207	0.0	
Quarterly				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	207	0.0	
Regulatory Sample	2/18/2025			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	207	0.0	



Waste Rock Leachate

Monitoring Point: 41 <Northern Waste Emplacement>
Northern Waste Emplacement leachate quality monitoring

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	Comments
Monthly	15/01/2025	15/01/2025	25/02/2025	-	-	No water present in toe drain
Monthly	20/02/2025	20/02/2025	20/03/2025	-	-	No water present in toe drain
Monthly	27/03/2025	27/03/2025	29/04/2025	6.5	13300	
Monthly	02/04/2025	02/04/2025	22/05/2025	6.34	13665	
Monthly	07/05/2025	07/05/2025	30/06/2025	6.5	12108	
Monthly	11/06/2025	11/06/2025	28/07/2025	8.03	15307	
Monthly	22/07/2025	30/07/2025	28/08/2025	8.27	15383	
Monthly						
Monthly						
Monthly						
Monthly						
Monthly						
Number of Samples Collected				5	5	
Lowest Value				6.3	11108	
Mean of Sample				7.1	13953	
Highest Sample Value				8.3	15383	
Median				6.5	13665	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	15/01/2025	15/01/2025	25/02/2025																					No water present in toe drain
Quarterly	02/04/2025	10/04/2025	22/05/2025	152	0.0017	0.0056	0.00149	484	3320	0.0022	<0.002	<0.0001	466	0.0011	0.0096	<0.0005	33	0.022	2300	3240	3130	14	0.016	
Quarterly	22/07/2025	30/07/2025	28/08/2025	167	0.0015	0.0052	0.002	624	3480	0.0023	0.008	<0.0001	466	0.0012	0.0123	<0.0005	20	0.0292	2500	3510	3480	<1	0.012	
Quarterly																								
Lowest Value				152.0	0.0	0.0	0.0	484.0	3320.0	0.0	0.0	0.0	466.0	0.0	0.0	0.0	20.0	0.0	2300.0	3240.0	3130.0	14.0	0.0	
Mean of Sample				159.5	0.0	0.0	0.0	654.0	3400.0	0.0	0.0	0.0	466.0	0.0	0.0	0.0	26.5	0.0	2400.0	3375.0	3300.0	14.0	0.0	
Highest Sample Value				167.0	0.0	0.0	0.0	624.0	3480.0	0.0	0.0	0.0	466.0	0.0	0.0	0.0	33.0	0.0	2500.0	3510.0	3480.0	14.0	0.0	

Monitoring Point: 42 <Southern Waste Emplacement>
Southern Waste Emplacement leachate quality monitoring

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	Comments
Monthly	15/01/2025	15/01/2025	25/02/2025	6.96	16308	
Monthly	20/02/2025	20/02/2025	20/03/2025	7.29	18608	
Monthly	27/03/2025	27/03/2025	29/04/2025	6.62	18462	
Monthly	02/04/2025	02/04/2025	22/05/2025	6.81	18603	
Monthly	07/05/2025	07/05/2025	30/06/2025	6.52	15642	
Monthly	11/06/2025	11/06/2025	28/07/2025	8.03	18870	
Monthly	22/07/2025	30/07/2025	28/08/2025	8.02	18360	
Monthly						
Monthly						
Monthly						
Monthly						
Monthly						
Number of Samples Collected				7	7	
Lowest Value				6.5	15642	
Mean of Sample				7.2	17836	
Highest Sample Value				8.0	18870	
Median				6.9	18462	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	15/01/2025	23/01/2025	25/02/2025	247	0.0008	0.0009	0.0035	699	5550	0.002	0.012	<0.0002	615	0.0018	0.0082	<0.0005	36	0.008	2970	2930	4280	18	0.018	
Quarterly	02/04/2025	10/04/2025	22/05/2025	259	0.0004	0.0004	0.0037	576	5460	0.001	<0.002	<0.0001	694	0.003	0.0043	<0.0005	58	0.001	2890	2750	4300	121	0.035	
Quarterly	22/07/2025	30/07/2025	28/08/2025	280	0.0002	0.0004	0.0056	701	5040	<0.0005	0.006	<0.0001	624	0.434	0.0044	0.0006	32	0.0012	2770	2730	4320	222	0.067	
Quarterly																								
Lowest Value				247.0000	0.0002	0.0004	0	576	5040.000	0.0006	0.0060	0.0000	615.0000	0.0026	0.004	0.0006	32.0000	0.0010	2770	2730	4280.000	18	0.018	
Mean of Sample				262.0000	0.0005	0.0006	0	659	5350.000	0.0013	0.0090	0.0000	644.3333	0.1514	0.006	0.0006	42.0000	0.0034	2877	2803	4300.000	120	0.040	
Highest Sample Value				280.0000	0.0008	0.0009	0	701	5550.000	0.0020	0.0120	0.0000	694.0000	0.4340	0.008	0.0006	58.0000	0.0080	2970	2930	4320.000	222	0.067	

Monitoring Point: 43 <Perimeter Waste Emplacement>
Perimeter Waste Emplacement leachate quality monitoring

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	Comments
Monthly	15/01/2025	15/01/2025	25/02/2025	-	-	No water present in toe drain
Monthly	20/02/2025	20/02/2025	20/03/2025	-	-	No water present in toe drain
Monthly	27/03/2025	27/03/2025	29/04/2025	-	-	No water present in toe drain
Monthly	02/04/2025	02/04/2025	22/05/2025	-	-	No water present in toe drain
Monthly	07/05/2025	07/05/2025	30/06/2025	-	-	No water present in toe drain
Monthly	11/06/2025	11/06/2025	28/07/2025	-	-	No water present in toe drain
Monthly	22/07/2025	30/07/2025	28/08/2025	-	-	No water present in toe drain
Monthly						
Monthly						
Monthly						
Monthly						
Monthly						
Number of Samples Collected				0	0	
Lowest Value				0.0	0	
Mean of Sample				0.0	0	
Highest Sample Value				0.0	0	
Median				0.0	0	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	15/01/2025	15/01/2025	25/02/2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No water present in toe drain
Quarterly	02/04/2025	02/04/2025	22/05/2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No water present in toe drain
Quarterly	22/07/2025	30/07/2025	28/08/2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No water present in toe drain
Quarterly																								
Lowest Value				0.0000	0.0000	0.0000	0	0	0.000	0.0000	0.0000	0.0000	0.0000	0.0000	0.000	0.0000	0.000	0.0000	0	0	0.000	0	0.000	
Mean of Sample				0.0000	0.0000	0.0000	0	0	0.000	0.0000	0.0000	0.0000	0.0000	0.0000	0.000	0.0000	0.000	0.0000	0	0	0.000	0	0.000	
Highest Sample Value				0.0000	0.0000	0.0000	0	0	0.000	0.0000	0.0000	0.0000	0.0000	0.0000	0.000	0.0000	0.000	0.0000	0	0	0.000	0	0.000	



Groundwater

Monitoring Point: 19 «P555A-B»

Groundwater quality monitoring, Piezometer located up gradient of southern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	08/01/2025	08/01/2025	25/02/2025	6.47	32920	20.50	
Monthly	27/02/2025	27/02/2025	20/03/2025	6.15	34271	20.28	
Monthly	06/03/2025	06/03/2025	29/04/2025	6.76	32658	20.53	
Monthly	01/04/2025	01/04/2025	22/05/2025	6.74	33084	20.50	
Monthly	15/05/2025	15/05/2025	30/06/2025	7.00	30150	20.49	
Monthly	10/06/2025	10/06/2025	28/07/2025	6.79	32210	20.45	
Monthly	08/07/2025	08/07/2025	28/08/2025	6.78	31741	20.40	
Monthly							
Monthly							
Monthly							
Monthly							
Monthly							
Number of Samples Collected				7	7	7	
Lowest Value				6.2	30150	20.280	
Mean of Sample				6.7	32283	20.450	
Highest Sample Value				7.0	34271	20.380	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Cyanide WAD (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	08/01/2025	15/01/2025	25/02/2025	814	<0.0005	<0.0005	0.0004	304	9780	0.001	<0.004	<0.005	0.0003	792	0.139	0.0015	0.0191	25	0.003	5950	2670	20900	4020	0.008	
Quarterly	01/04/2025	11/04/2025	22/05/2025	801	<0.0005	<0.0005	0.0006	327	9300	0.003	<0.004	<0.005	<0.0002	832	0.11	0.002	0.0095	29	0.003	6290	2330	22000	4240	0.008	
Quarterly	08/07/2025	17/07/2025	28/08/2025	840	<0.0005	<0.0005	0.0006	312	9010	0.001	<0.008	0.007	<0.0002	817	0.148	0.0015	0.0169	26	0.002	6160	2170	23200	4140	0.007	
Quarterly																									
Lowest Value				801.0	0.0000	0.0000	0.0004	304	9010	0.0010	0.0000	0.0070	0.0003	792	0.1100	0.0015	0.0095	25	0.0020	5950	2170	20900	4020	0.0070	
Mean of Sample				818.3	0.0000	0.0000	0.0005	314	9363	0.0017	0.0000	0.0070	0.0003	813.6667	0.1323	0.0017	0.0152	27	0.0027	6133	2390	22033	4133	0.0077	
Highest Sample Value				840.0	0.0000	0.0000	0.0006	327	9780	0.0030	0.0000	0.0070	0.0003	832	0.1480	0.0020	0.0191	29	0.0030	6290	2670	23200	4240	0.0080	

Monitoring Point: 26 «PP03»

Groundwater quality monitoring, Piezometer located near the processing plant area

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	21/01/2025	21/01/2025	25/02/2025	6.77	47800	16.00	
Monthly	25/02/2025	25/02/2025	20/03/2025	6.39	51603	15.33	
Monthly	11/03/2025	11/03/2025	29/04/2025	6.75	48723	15.82	
Monthly	03/04/2025	03/04/2025	22/05/2025	6.94	48589	15.65	
Monthly	11/05/2025	11/05/2025	30/06/2025	7.02	45164	15.52	
Monthly	24/06/2025	24/06/2025	28/07/2025	6.74	48557	15.48	
Monthly	17/07/2025	17/07/2025	28/08/2025	6.69	48700	15.47	
Monthly							
Monthly							
Monthly							
Monthly							
Monthly							
Monthly							
Number of Samples Collected				7	7	7	
Lowest Value				6.4	45164	15.230	
Mean of Sample				6.8	48448	15.586	
Highest Sample Value				7.0	51603	16.000	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Cyanide WAD (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	21/01/2025	31/01/2025	25/02/2025	438	<0.0005	<0.0005	<0.0002	833	17400	<0.001	<0.008	<0.005	0.0008	1690	0.0017	0.0001	0.0006	48	0.009	9340	3540	36200	9040	0.009	
Quarterly	03/04/2025	11/04/2025	22/05/2025	442	<0.0005	<0.0005	<0.0002	783	15200	0.002	<0.004	<0.005	0.001	1650	0.0023	<0.0001	<0.0005	56	0.01	8930	3020	38400	8750	0.017	
Quarterly	17/07/2025	26/07/2025	28/08/2025	441	<0.0005	<0.0005	<0.0002	845	16300	<0.001	<0.008	<0.005	0.0005	1530	0.0015	0.0001	<0.0005	47	0.01	8770	3510	35600	8370	0.01	
Quarterly																									
Lowest Value				438.0	0.0000	0.0000	0.0000	783	15200	0.0020	0.0000	0.0000	0.0005	1520	0.0015	0.0001	0.0006	47	0.0080	8770	3020	35600	8370	0.0090	
Mean of Sample				440.3	0.0000	0.0000	0.0000	820	16200	0.0020	0.0000	0.0000	0.0008	1620	0.0018	0.0002	0.0006	50	0.0087	9013	3057	36713	8720	0.0120	
Highest Sample Value				442.0	0.0000	0.0000	0.0000	845	17400	0.0020	0.0000	0.0000	0.0010	1690	0.0023	0.0002	0.0006	56	0.0090	9340	3540	38400	9040	0.0170	

Monitoring Point: 27 «PP04»

Groundwater quality monitoring, Piezometer located near the processing plant area

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	21/01/2025	21/01/2025	25/02/2025	6.82	48167	15.23	
Monthly	25/02/2025	25/02/2025	20/03/2025	5.95	51102	15.24	
Monthly	11/03/2025	11/03/2025	29/04/2025	6.79	47984	15.15	
Monthly	03/04/2025	03/04/2025	22/05/2025	6.84	48349	15.08	
Monthly	11/05/2025	11/05/2025	30/06/2025	7.11	44639	15.00	
Monthly	24/06/2025	24/06/2025	28/07/2025	6.80	47825	14.85	
Monthly	17/07/2025	17/07/2025	28/08/2025	6.73	48734	14.96	
Monthly							
Monthly							
Monthly							
Monthly							
Monthly							
Monthly							
Number of Samples Collected				7	7	7	
Lowest Value				6.0	44639	14.850	
Mean of Sample				6.7	48114	15.073	
Highest Sample Value				7.1	51102	15.240	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Cyanide WAD (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	21/01/2025	31/01/2025	25/02/2025	509	<0.0005	<0.0005	<0.0002	832	17100	0.001	<0.0005	0.010	0.0003	1650	0.0019	0.0004	0.0035	45	0.009	9520	3800	36100	8870	0.012	
Quarterly	03/04/2025	11/04/2025	22/05/2025	502	<0.0005	<0.0005	<0.0002	783	14700	0.002	<0.004	0.019	0.0003	1610	0.0032	0.0008	0.0049	52	0.009	9230	3380	37800	8540	0.022	
Quarterly	17/07/2025	26/07/2025	28/08/2025	492	<0.0005	<0.0005	<0.0002	866	17100	<0.001	<0.008	0.02	<0.0002	1550	0.0016	0.0005	0.003	44	0.009	9250	3570	34300	8540	0.015	
Quarterly																									
Lowest Value				492.0	0.0000	0.0000	0.0000	783	14700	0.0010	0.0000	0.0300	0.0003	1550	0.0016	0.0004	0.0030	44	0.0090	9230	3380	34300	8540	0.0120	
Mean of Sample				503.0	0.0000	0.0000	0.0000	827	16500	0.0015	0.0000	0.0163	0.0003	1603	0.0022	0.0006	0.0038	47	0.0090	9333	3583	36057	8663	0.0183	
Highest Sample Value				509.0	0.0000	0.0000	0.0000	866	17100	0.0020	0.0000	0.0300	0.0003	1650	0.0022	0.0008	0.0049	52	0.0090	9520	3800	37800	8870	0.0220	

Monitoring Point: 30 «P437A»

Groundwater quality monitoring, Piezometer located down gradient of southern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	06/01/2025	06/01/2025	25/02/2025	6.37	48980	10.68	
Monthly	04/02/2025	04/02/2025	20/03/2025	6.82	50172	10.66	
Monthly	06/03/2025	06/03/2025	29/04/2025	6.56	47703	10.65	
Monthly	01/04/2025	01/04/2025	22/05/2025	6.53	45198	10.59	
Monthly	15/05/2025	15/05/2025	30/06/2025	6.93	44637	10.40	
Monthly	10/06/2025	10/06/2025	28/07/2025	6.62	46987	10.47	
Monthly	08/07/2025	08/07/2025	28/08/2025	6.60	46245	10.41	
Monthly							
Monthly							
Monthly							
Monthly							
Monthly							
Monthly							
Monthly							
Number of Samples Collected				7	7	7	
Lowest Value				6.4	44027	10.410	
Mean of Sample				6.6	46916	10.580	
Highest Sample Value				6.9	50172	10.680	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Cyanide WAD (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	06/01/2025	15/01/2025	25/02/2025	494	<0.0005	<0.0005	0.001	674	15700	0.002	<0.004	<0.005	<0.0002	1490	0.0184	0.0021	0.0021	36	0.01	8440	3350	33500	7820	0.008	
Quarterly	01/04/2025	11/04/2025	22/05/2025	461	<0.0005	<0.0005	0.0008	718	13900	0.002	<0.004	0.008	<0.0002	1560	0.0073	0.0014	0.0014	40	0.008	8720	3010	33300	8220	0.006	
Quarterly	08/07/2025	17/07/2025	28/08/2025	506	<0.0005	<0.0005	0.0008	670	13500	0.002	<0.008	0.008	<0.0002	1500	0.149	0.0017	0.0195	38	0.008	8660	2860	35200	7850	<0.005	
Quarterly																									
Lowest Value				461.0	0.0000	0.0000	0.0008	670	13500	0.0020	0.0000	0.0080	0.0000	1490	0.0073	0.0014	0.0021	36	0.0080	8440	2860	33300	7820	0.0080	
Mean of Sample				497.0	0.0000	0.0000	0.0009	687	14367	0.0020	0.0000	0.0080	0.0000	1517	0.0582	0.0017	0.0084	38	0.0080	8627	3073	34000	7920	0.0070	
Highest Sample Value				506.0	0.0000	0.0000	0.0010	718	15700	0.0020	0.0000	0.0080	0.0000	1560	0.1490	0.0021	0.0195	40	0.0100	8720	3350	35200	8220	0.0080	



Groundwater

Monitoring Point: 31 «P417B»

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	06/01/2025	06/01/2025	25/02/2025	6.78	42955	10.66	
Monthly	04/02/2025	04/02/2025	20/03/2025	7.96	44318	10.63	
Monthly	06/03/2025	06/03/2025	29/04/2025	6.82	42762	10.60	
Monthly	01/04/2025	01/04/2025	22/05/2025	6.82	42419	10.55	
Monthly	21/05/2025	21/05/2025	30/06/2025	7.04	40221	10.55	
Monthly	10/06/2025	10/06/2025	28/07/2025	6.84	43190	10.45	
Monthly	08/07/2025	08/07/2025	28/08/2025	6.73	42346	10.39	
Monthly							
Monthly							
Monthly							
Monthly							
Number of Samples Collected				7	7	7	
Lowest Value				6.7	40221	10.390	
Mean of Sample				7.0	42587	10.547	
Highest Sample Value				8.0	44318	10.660	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Cyanide WAD (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	06/01/2025	15/01/2025	25/02/2025	255	<0.0005	<0.0005	<0.0002	567	14000	0.001	<0.004	0.02	0.0008	1370	0.0045	0.0004	0.0006	21	0.010	7820	3000	31700	7960	0.034	
Quarterly	01/04/2025	11/04/2025	22/05/2025	247	<0.0005	<0.0005	<0.0002	587	13400	0.002	<0.004	<0.005	0.0004	1440	0.0072	0.0003	0.0013	23	0.008	8100	2670	31700	7400	0.035	
Quarterly		08/07/2025	17/07/2025	254	<0.0005	<0.0005	<0.0002	366	13000	0.088	<0.008	0.01	0.0003	1120	0.0486	0.005	0.308	14	0.005	8580	2530	32000	5530	0.069	
Quarterly																									
Lowest Value				247.0	0.0000	0.0000	0.0000	366	13000	0.0010	0.0000	0.0000	0.0003	1120	0.0045	0.0003	0.0006	14	0.0050	7820	2530	31700	5530	0.0340	
Mean of Sample				252.0	0.0000	0.0000	0.0000	507	13467	0.0303	0.0000	0.0150	0.0005	1310	0.0201	0.0019	0.1033	19	0.0077	8167	2733	31800	6663	0.0460	
Highest Sample Value				255.0	0.0000	0.0000	0.0000	587	14000	0.0880	0.0000	0.0200	0.0008	1440	0.0486	0.0050	0.3080	23	0.0100	8580	3000	32000	7400	0.0690	

Monitoring Point: 32 «P418A»
Groundwater quality monitoring, Piezometer located down gradient of northern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	16/01/2025	16/01/2025	25/02/2025	6.5	50065	5.02	
Monthly	19/02/2025	19/02/2025	20/03/2025	6.89	52588	5.00	
Monthly	06/03/2025	06/03/2025	29/04/2025	6.58	49813	4.87	
Monthly	03/04/2025	03/04/2025	22/05/2025	6.57	48980	4.87	
Monthly	15/05/2025	15/05/2025	30/06/2025	6.86	46046	4.80	
Monthly	10/06/2025	10/06/2025	28/07/2025	6.61	49205	4.69	
Monthly	08/07/2025	08/07/2025	28/08/2025	6.59	48296	4.63	
Monthly							
Monthly							
Monthly							
Monthly							
Monthly							
Number of Samples Collected				7			
Lowest Value				6.5	46046	4.630	
Mean of Sample				6.7	49285	4.847	
Highest Sample Value				6.9	52588	5.000	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Cyanide WAD (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	16/01/2025	28/01/2025	25/02/2025	538	<0.0005	<0.0005	<0.0002	643	14500	0.002	<0.008	0.203	<0.0002	1670	0.308	0.0019	0.0082	25	<0.002	11300	4840	38600	8480	<0.005	
Quarterly	03/04/2025	11/04/2025	22/05/2025	550	<0.0005	<0.0005	<0.0002	518	14200	0.002	<0.004	0.263	<0.0002	1470	0.361	0.0037	0.0316	26	<0.002	9810	4270	39200	7290	<0.005	
Quarterly		08/07/2025	17/07/2025	574	<0.0005	<0.0005	<0.0002	526	13700	<0.003	<0.008	0.236	<0.0002	1430	0.336	0.0013	0.0040	25	<0.002	9800	4570	37000	7200	0.007	
Quarterly																									
Lowest Value				538.0	0.0000	0.0000	0.0000	518	13700	0.002	0.000	0.203	0.0000	1430	0.3080	0.0019	0.0040	25	0.0000	9800	4270	37000	7290	0.0070	
Mean of Sample				554.0	0.0000	0.0000	0.0000	562	14131	0.002	0.000	0.234	0.0000	1521	0.3320	0.0013	0.0146	25	0.0000	10203	4560	38257	7677	0.0070	
Highest Sample Value				574.0	0.0000	0.0000	0.0000	643	14500	0.002	0.000	0.263	0.0000	1670	0.3610	0.0037	0.0316	26	0.0000	11300	4840	39200	8480	0.0070	

Monitoring Point: 33 «P418B»
Groundwater quality monitoring, Piezometer located down gradient of northern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	16/01/2025	16/01/2025	25/02/2025	6.36	47593	5.02	
Monthly	19/02/2025	19/02/2025	20/03/2025	7.36	50160	5.02	
Monthly	06/03/2025	06/03/2025	29/04/2025	6.45	47459	5.00	
Monthly	03/04/2025	03/04/2025	22/05/2025	6.44	46628	4.85	
Monthly	15/05/2025	15/05/2025	30/06/2025	6.69	43655	4.82	
Monthly	10/06/2025	10/06/2025	28/07/2025	6.47	46866	4.76	
Monthly	08/07/2025	08/07/2025	28/08/2025	6.48	46069	4.67	
Monthly							
Monthly							
Monthly							
Monthly							
Monthly							
Number of Samples Collected				7	7	7	
Lowest Value				6.4	43655	4.670	
Mean of Sample				6.6	46519	4.877	
Highest Sample Value				7.4	50160	5.020	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Cyanide WAD (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	16/01/2025	28/01/2025	25/02/2025	648	<0.0005	<0.0005	<0.0002	500	13700	0.054	<0.008	0.010	<0.0002	1430	0.027	0.0055	0.1850	15	0.006	10700	4510	38400	7140	0.066	
Quarterly	03/04/2025	11/04/2025	22/05/2025	655	<0.0005	<0.0005	<0.0002	390	13300	0.193	<0.004	0.021	<0.0002	1270	0.0391	0.0018	0.2230	16	0.006	9470	4200	37600	6200	0.053	
Quarterly		08/07/2025	17/07/2025	674	<0.0005	<0.0005	<0.0002	573	13100	0.001	<0.008	<0.005	0.0002	1450	0.0016	0.0003	0.0019	21	0.008	8240	4250	36800	7400	0.023	
Quarterly																									
Lowest Value				648.0	0.0000	0.0000	0.0000	390	13100	0.0010	0.0000	0.0000	0.0002	1270	0.0016	0.0003	0.0019	15	0.0060	8240	4200	36800	6200	0.0230	
Mean of Sample				659.0	0.0000	0.0000	0.0000	488	13367	0.0877	0.0000	0.0155	0.0002	1383	0.0224	0.0039	0.1366	17	0.0067	9470	4320	37600	6913	0.0473	
Highest Sample Value				674.0	0.0000	0.0000	0.0000	573	13700	0.1930	0.0000	0.0210	0.0002	1450	0.0391	0.0038	0.2230	21	0.0080	10700	4510	38400	7400	0.0660	



Groundwater

Monitoring Point: 36 <POB1A>
Groundwater quality monitoring, Pit dewatering bore

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	20/01/2025	20/01/2025	25/02/2025	6.45	53588	16.64	
Monthly	04/02/2025	04/02/2025	20/03/2025	7.49	58448	16.67	
Monthly	11/03/2025	11/03/2025	29/04/2025	6.58	53708	16.61	Turbid
Monthly	02/04/2025	02/04/2025	22/05/2025	6.42	50602	16.82	Sulphur smell
Monthly	21/05/2025	21/05/2025	30/06/2025	6.90	49195	17.10	Sulphur smell
Monthly	10/06/2025	10/06/2025	28/07/2025	6.48	50480	17.08	Sulphur smell
Monthly	08/07/2025	08/07/2025	28/08/2025	6.47	53360	17.10	Sulphur smell
Monthly							
Monthly							
Monthly							
Monthly							
Monthly							
Number of Samples Collected				7	7	7	
Lowest Value				6.4	49195	16.610	
Mean of Sample				6.7	52769	16.860	
Highest Sample Value				7.5	58448	17.100	

Frequency	Date Sampled	Date Obtained	Date Published	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	20/01/2025	31/01/2025	25/02/2025	0.0033	0.0008	<0.0002	3120	19800	<0.001	0.423	<0.0002	1120	2.46	0.0013	0.0268	369	<0.002	8200	2960	40200	12400	<0.005	
Quarterly	02/04/2025	11/04/2025	22/05/2025	0.0198	<0.0005	0.0009	2800	17900	<0.001	0.154	<0.0002	1140	2.62	0.001	0.0238	382	<0.002	8190	2490	40400	11700	<0.005	
Quarterly	08/07/2025	17/07/2025	28/08/2025	0.0101	<0.0005	0.001	2080	18500	<0.001	0.021	<0.0002	1370	2.57	0.0018	0.0298	205	<0.002	8090	3380	39100	10800	<0.005	
Quarterly																							
Lowest Value				0.0101	0.0008	0.0009	2080	17900	0.000	0.0210	0.0000	1120	2.4600	0.0010	0.024	205	0.000	8190	2490	39100	10800	0.000	
Mean of Sample				0.0177	0.0008	0.0020	2667	18713	0.000	0.1993	0.0000	1210	2.5500	0.0014	0.027	219	0.000	8493	2910	39900	11633	0.000	
Highest Sample Value				0.0131	0.0008	0.0030	3120	19800	0.000	0.4230	0.0000	1370	2.6200	0.0018	0.030	382	0.000	9090	3380	40400	12400	0.000	

Monitoring Point: 38 <POB3A>
Groundwater quality monitoring, Pit dewatering bore

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	20/01/2025	20/01/2025	25/02/2025	6.64	54699	82.43	
Monthly	25/02/2025	25/02/2025	30/03/2025	7.36	55160	82.46	
Monthly	11/03/2025	11/03/2025	29/04/2025	6.73	54105	82.38	
Monthly	01/04/2025	01/04/2025	22/05/2025	6.87	52133.0	82.32	
Monthly	21/05/2025	21/05/2025	30/06/2025	7.21	49965	82.38	
Monthly	14/06/2025	14/06/2025	28/07/2025	6.73	54182	82.35	
Monthly	17/07/2025	17/07/2025	28/08/2025	6.64	52800	82.50	
Monthly							
Monthly							
Monthly							
Monthly							
Monthly							
Number of Samples Collected				7	7	7	
Lowest Value				6.6	49965	82.280	
Mean of Sample				6.9	53321	82.389	
Highest Sample Value				7.4	55160	82.500	

Frequency	Date Sampled	Date Obtained	Date Published	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	20/01/2025	31/01/2025	25/02/2025	<0.0005	0.0013	0.0012	1280	20200	<0.001	0.053	0.0002	1930	0.09	0.0038	0.0151	38	0.003	9760	4020	40700	11000	0.027	
Quarterly	03/04/2025	11/04/2025	22/05/2025	0.0041	0.001	0.0022	1300	18400	0.009	0.02	0.0014	1940	0.109	0.0067	0.0275	57	0.003	9640	3410	43400	11200	0.508	
Quarterly	17/07/2025	28/07/2025	28/08/2025	0.0018	0.0013	0.00400	1260	18900	0.004	0.019	0.0009	1780	0.20	0.0048	0.0453	36	0.003	9340	3630	38700	10000	0.281	
Quarterly																							
Lowest Value				0.0018	0.0010	0.0012	1230	18400	0.004	0.0190	0.0002	1780	0.0890	0.0038	0.015	33	0.003	9340	3410	38700	10500	0.027	
Mean of Sample				0.0030	0.0012	0.0025	1263	19167	0.007	0.0307	0.0008	1883	0.2004	0.0051	0.039	42	0.003	9680	3687	40533	10900	0.272	
Highest Sample Value				0.0041	0.0013	0.0040	1300	20200	0.009	0.0530	0.0014	1940	0.3090	0.0067	0.058	57	0.003	9760	4020	43400	11200	0.508	

Monitoring Point: 40 <POB5A>
Groundwater quality monitoring, Pit dewatering bore

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	21/01/2025	21/01/2025	25/02/2025	6.27	55012	33.18	
Monthly	04/02/2025	20/03/2025	7/78	57796	33.16		
Monthly	11/03/2025	11/03/2025	29/04/2025	6.45	54928	33.12	
Monthly	03/04/2025	03/04/2025	22/05/2025	6.51	53775	33.15	
Monthly	21/05/2025	30/06/2025	6.71	50545	33.30		
Monthly	19/06/2025	19/06/2025	28/07/2025	6.39	53879	33.26	
Monthly	10/07/2025	10/07/2025	28/08/2025	6.41	53039	33.25	
Monthly							
Monthly							
Monthly							
Monthly							
Number of Samples Collected				7	7	7	
Lowest Value				6.1	50545	33.120	
Mean of Sample				6.6	54139	33.189	
Highest Sample Value				7.8	57796	33.260	

Frequency	Date Sampled	Date Obtained	Date Published	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	21/01/2025	31/01/2025	25/02/2025	<0.0005	0.005	0.0051	828	20100	0.002	<0.005	<0.0002	1940	0.0212	0.0077	0.0177	41	0.003	9840	3530	40000	10000	0.041	
Quarterly	02/04/2025	11/04/2025	22/05/2025	<0.0005	0.0036	0.0043	793	17200	0.002	0.006	<0.0002	1940	0.0257	0.0053	0.016	47	0.004	9660	3990	40700	9970	0.03	
Quarterly	17/07/2025	28/07/2025	28/08/2025	<0.0005	0.0047	0.0044	885	16900	0.001	0.072	<0.0002	1690	0.0267	0.0027	0.0173	49	0.003	10300	3020	39300	10700	0.036	
Quarterly																							
Lowest Value				0.0000	0.0036	0.0043	793	16900	0.001	0.0360	0.0000	1940	0.0212	0.0077	0.016	41	0.003	9660	2990	39300	9970	0.030	
Mean of Sample				0.0000	0.0044	0.0046	835	18067	0.002	0.0390	0.0000	1983	0.0245	0.0052	0.017	46	0.003	9933	3180	40000	10223	0.036	
Highest Sample Value				0.0000	0.0050	0.0051	885	20100	0.002	0.0720	0.0000	2070	0.0267	0.0077	0.018	49	0.004	10300	3530	40700	10700	0.041	

Monitoring Point: 52 <POB1B>
Groundwater quality monitoring, Pit dewatering bore

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	20/01/2025	20/01/2025	25/02/2025	6.51	21653	4.28	
Monthly	04/02/2025	04/02/2025	20/03/2025	7.11	28207	4.58	
Monthly	11/03/2025	11/03/2025	29/04/2025	6.70	21683	4.50	
Monthly	02/04/2025	02/04/2025	22/05/2025	6.57	22743	4.64	
Monthly	21/05/2025	21/05/2025	30/06/2025	6.76	33321	4.84	Electrical Conductivity to be retested
Monthly	12/06/2025	12/06/2025	28/07/2025	6.47	30133	4.89	
Monthly	08/07/2025	08/07/2025	28/08/2025	6.27	49402	4.97	
Monthly							
Monthly							
Monthly							
Monthly							
Monthly							
Number of Samples Collected				7	7	7	
Lowest Value				6.3	21653	4.280	
Mean of Sample				6.6	29020	4.671	
Highest Sample Value				7.1	49402	4.970	

Frequency	Date Sampled	Date Obtained	Date Published	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	20/01/2025	31/01/2025	25/02/2025	<0.0005	0.0018	<0.0002	707	14100	0.001	0.896	<0.0002	1520	0.175	0.0009	0.0143	18	<0.002	7770	3590	31000	8020	0.011	
Quarterly	02/04/2025	11/04/2025	22/05/2025	<0.0005	0.001	<0.0002	780	14800	<0.001	0.601	<0.0002	1490	0.235	0.0011	0.0116	19	<0.002	7940	3680	32600	8080	0.01	
Quarterly	08/07/2025	17/07/2025	28/08/2025																				
Lowest Value				0.0000	0.0010	0.0000	707	14100	0.001	0.6010	0.0000	1490	0.1750	0.0009	0.012	18	0.000	7770	3590	31000	8020	0.009	
Mean of Sample				0.0000	0.0014	0.0000	744	14450	0.001	0.7485	0.0000	1525	0.2050	0.0010	0.013	19	0.000	7955	3635	31800	8050	0.010	
Highest Sample Value				0.0000	0.0018	0.0000	780	14800	0.001	0.8960	0.0000	1520	0.2350	0.0011	0.014	19	0.000	7940	3680	32600	8080	0.011	



Groundwater

Monitoring Point: 53 <P083B>

Groundwater quality monitoring, Pit dewatering bore

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	20/01/2025	20/01/2025	25/02/2025	5.90	52344	18.00	
Monthly	04/02/2025	04/02/2025	20/03/2025	8.42	55169	18.13	pH - operator error
Monthly	11/03/2025	11/03/2025	29/04/2025	6.12	52095	18.12	
Monthly	03/04/2025	03/04/2025	22/05/2025	6.04	51199	18.14	
Monthly	21/05/2025	21/05/2025	30/06/2025	6.44	48057	18.25	
Monthly	24/06/2025	24/06/2025	28/07/2025	6.12	44224	18.30	
Monthly	17/07/2025	17/07/2025	28/08/2025	6.07	49026	18.42	
Monthly							
Monthly							
Monthly							
Monthly							
Monthly							
Number of Samples Collected				7	7	7	
Lowest Value				5.9	44224	18.000	
Mean of Sample				6.4	50416	18.180	
Highest Sample Value				8.4	55169	18.420	

Frequency	Date Sampled	Date Obtained	Date Published	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	20/01/2025	21/01/2025	25/02/2025	<0.0005	<0.0005	0.0007	1160	18000	0.002	0.015	<0.0002	2120	0.0364	0.0018	0.0034	47	0.015	9270	5010	39700	11600	<0.005	
Quarterly	03/04/2025	11/04/2025	22/05/2025	<0.0005	<0.0005	0.0006	1190	15900	<0.001	<0.0002	<0.0002	2070	0.0245	0.0008	0.0044	54	0.012	8960	4580	40900	11500	<0.005	
Quarterly	17/07/2025	28/07/2025	28/08/2025	<0.0005	<0.0005	0.0007	1170	16600	<0.001	0.006	<0.0002	1860	0.12	0.0009	0.0019	46	0.015	8550	4790	37800	10600	<0.005	
Quarterly																							
Lowest Value				0.0000	0.0000	0.0006	1160	15800	0.002	0.0060	0.0000	1860	0.0245	0.0008	0.002	46	0.012	8550	4580	37800	10600	0.000	
Mean of Sample				0.0000	0.0000	0.0007	1173	16800	0.002	0.0105	0.0000	2017	0.0603	0.0012	0.003	49	0.014	8927	4793	39467	11233	0.000	
Highest Sample Value				0.0000	0.0000	0.0007	1190	18000	0.002	0.0150	0.0000	2120	0.1200	0.0018	0.004	54	0.015	9270	5010	40900	11600	0.000	

Monitoring Point: 54 <P085B>

Groundwater quality monitoring, Pit dewatering bore

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	21/01/2025	21/01/2025	25/02/2025	6.38	48947	13.80	
Monthly	04/02/2025	04/02/2025	20/03/2025	9.32	50530	13.70	pH - operator error
Monthly	11/03/2025	29/04/2025	29/04/2025	6.50	48387	13.46	
Monthly	03/04/2025	03/04/2025	22/05/2025	6.52	46628	13.06	
Monthly	21/05/2025	21/05/2025	30/06/2025	6.33	46746	13.89	
Monthly	19/06/2025	19/06/2025	28/07/2025	6.00	50003	14.09	
Monthly	10/07/2025	10/07/2025	28/08/2025	5.99	49053	14.10	
Monthly							
Monthly							
Monthly							
Monthly							
Monthly							
Number of Samples Collected				7	7	7	
Lowest Value				6.0	46628	13.060	
Mean of Sample				6.7	48099	13.729	
Highest Sample Value				9.3	50530	14.100	

Frequency	Date Sampled	Date Obtained	Date Published	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	21/01/2025	31/01/2025	25/02/2025	<0.0005	<0.0005	<0.0002	834	14100	0.001	0.022	<0.0002	1350	0.0863	0.0006	0.0165	50	0.004	7740	3450	32900	7640	<0.005	
Quarterly	03/04/2025	11/04/2025	22/05/2025	<0.0005	0.0011	0.0014	830	15100	0.013	0.013	0.0025	1720	0.0262	0.0006	0.0078	48	<0.002	8730	2980	39900	9160	0.082	
Quarterly	10/07/2025	28/07/2025	28/08/2025	<0.0005	0.0008	0.0011	853	15100	0.006	0.37	<0.0002	1760	0.0326	0.0008	0.136	49	<0.002	8960	3020	35800	9380	0.007	
Quarterly																							
Lowest Value				0.0000	0.0008	0.0011	830	14100	0.001	0.0130	0.0025	1350	0.0262	0.0006	0.008	48	0.004	7740	2980	32900	7640	0.007	
Mean of Sample				0.0000	0.0010	0.0013	839	14767	0.007	0.1500	0.0025	1610	0.0484	0.0027	0.051	49	0.004	8477	3150	36200	8727	0.045	
Highest Sample Value				0.0000	0.0011	0.0014	853	15100	0.013	0.3700	0.0025	1760	0.0863	0.0008	0.136	50	0.004	8960	3450	39900	9380	0.082	

Monitoring Point: 57 <WU06A>

Groundwater quality monitoring, Groundwater monitoring bore located to the south of the southern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	06/01/2025	06/01/2025	25/02/2025	6.69	45413	2.64	
Monthly	04/02/2025	04/02/2025	20/03/2025	6.55	47582	2.57	Turbid
Monthly	06/03/2025	06/03/2025	29/04/2025	6.74	44758	2.52	Turbid
Monthly	03/04/2025	03/04/2025	14/05/2025	6.84	44489	2.42	Turbid
Monthly	21/05/2025	21/05/2025	30/06/2025	7.05	41873	2.46	Turbid
Monthly	12/06/2025	12/06/2025	28/07/2025	6.75	42913	2.42	Turbid
Monthly	08/07/2025	08/07/2025	28/08/2025	6.73	43968	2.40	Murky
Monthly							
Monthly							
Monthly							
Monthly							
Monthly							
Number of Samples Collected				7	7	7	
Lowest Value				6.6	41873	2.400	
Mean of Sample				6.8	44411	2.490	
Highest Sample Value				7.1	47582	2.640	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Cyanide WAD (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	06/01/2025	31/01/2025	25/02/2025	354	<0.0005	<0.0005	<0.0002	834	14100	0.001	<0.0004	0.022	<0.0002	1350	0.0863	0.0006	0.0165	50	0.004	7740	3450	32900	7640	<0.005	
Quarterly	03/04/2025	11/04/2025	22/05/2025	280	<0.0005	<0.0005	0.0003	778	13400	<0.001	<0.0004	0.025	<0.0002	1420	0.0254	0.0007	0.0155	57	0.004	8080	3120	49400	7790	<0.005	
Quarterly	08/07/2025	17/07/2025	28/08/2025	318	<0.0005	<0.0005	<0.0002	791	12900	<0.001	<0.0008	0.022	<0.0002	1470	0.021	0.0009	0.0247	55	0.005	8380	3010	31300	8530	<0.005	
Quarterly																									
Lowest Value				280.0	0.0000	0.0000	0.0003	778	12900	0.0010	0.0000	0.0220	0.0000	1350	0.0220	0.0006	0.0155	50	0.0040	7740	3010	31300	7640	0.0000	
Mean of Sample				324.0	0.0000	0.0000	0.0003	801	13467	0.0010	0.0000	0.0230	0.0000	1413	0.0446	0.0007	0.0189	54	0.0043	8067	3193	37867	7820	0.0000	
Highest Sample Value				354.0	0.0000	0.0000	0.0003	834	14100	0.0010	0.0000	0.0250	0.0000	1470	0.0863	0.0009	0.0247	57	0.0050	8380	3450	49400	8030	0.0000	

Monitoring Point: 58 <WU06B>

Groundwater quality monitoring, Groundwater monitoring bore located to the south of the southern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	06/01/2025	06/01/2025	25/02/2025	6.54	46984	2.51	
Monthly	04/02/2025	04/02/2025	20/03/2025	6.81	47146	2.45	Murky water
Monthly	06/03/2025	06/03/2025	29/04/2025	6.60	44828	2.41	Murky water
Monthly	03/04/2025	03/04/2025	11/04/2025	6.68	43923	2.32	Murky water
Monthly	21/05/2025	21/05/2025	30/06/2025	6.91	41368	2.35	Murky water
Monthly	12/06/2025	12/06/2025	28/07/2025	6.65	44040	2.32	Murky water
Monthly	08/07/2025	08/07/2025	28/08/2025	6.63	43483	2.20	Murky water
Monthly							
Monthly							
Monthly							
Monthly							
Monthly							
Number of Samples Collected				7	7	7	
Lowest Value				6.5	41368	2.200	
Mean of Sample				6.7	44257	2.366	
Highest Sample Value				6.9	47146	2.510	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Cyanide WAD (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	06/01/2025	31/01/2025	25/02/2025	605	<0.0005	<0.0005	<0.0002	700	14100	0.002	<0.0004	0.02	<0.0002	1450	0.0622	0.0033	0.333	41	0.006	7840	3370	34900	7720	<0.005	
Quarterly	03/04/2025	11/04/2025	22/05/2025	594	<0.0005	<0.0005	<0.0002	655	13400	0.002	<0.0004	0.014	<0.0002	1460	0.0283	0.003	0.203	46	0.007	7730	2980	40900	7650	<0.005	
Quarterly	08/07/2025	17/07/2025	28/08/2025	615	<0.0005	<0.0005	<0.0002	718	12900	0.004	<0.0008	0.046	<0.0002	1490	0.0431	0.003	0.293	44	0.006	8080	2900	30900	7930	<0.005	
Lowest Value				594.0	0.0000	0.0000	0.0000	655	12900	0.0020	0.0000	0.0140	0.0000	1450	0.0283	0.0030	0.2030	41	0.0060	7730	2900	30900	7650	0.0000	
Mean of Sample				604.7	0.0000	0.0000	0.0000	691	13457	0.0027	0.0000	0.0267	0.0000	1467	0.0445	0.0031	0.2763	44	0.0063	7883	3083	35567	7767	0.0000	
Highest Sample Value				615.0	0.0000	0.0000	0.0000	718	14100	0.0040	0.0000	0.0460	0.0000	1490	0.0622	0.0033	0.3330	46	0.0070	8080	3370	40900	7930	0.0000	



Groundwater

Monitoring Point: 59 <IW05A>

Groundwater quality monitoring, Groundwater monitoring bore located to the south of the southern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	30/01/2025	30/01/2025	25/02/2025	7.23	44139	3.05	
Monthly	19/02/2025	19/02/2025	20/03/2025	6.89	44931	3.11	
Monthly	11/03/2025	29/04/2025	6.63	42382	3.14		
Monthly	01/04/2025	01/04/2025	22/05/2025	6.54	40915	3.12	
Monthly	15/05/2025	15/05/2025	30/06/2025	6.8	38413	2.18	SWL to be retested
Monthly	10/06/2025	10/06/2025	28/07/2025	6.61	41556	3.10	
Monthly	10/07/2025	10/07/2025	28/08/2025	6.59	40768	3.06	
Monthly							
Monthly							
Monthly							
Monthly							
Monthly							
Number of Samples Collected				6	7	7	
Lowest Value				6.5	38413	2.180	
Mean of Sample				6.7	41772	2.966	
Highest Sample Value				6.9	44931	3.140	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Cyanide WAD (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	30/01/2025	07/02/2025	25/02/2025	742	<0.0005	<0.0005	<0.0002	353	14460	0.008	<0.008	0.053	<0.0002	1270	0.239	0.0093	0.506	58	0.009	7960	3240	28400	6150	0.007	
Quarterly	01/04/2025	11/04/2025	22/05/2025	711	<0.0005	<0.0005	<0.0002	334	12100	0.004	<0.004	0.121	<0.0002	1130	0.264	0.0064	0.502	60	0.01	8210	2920	29500	6270	0.007	
Quarterly	10/06/2025	17/07/2025	28/08/2025	746	<0.0005	<0.0005	<0.0002	304	11000	0.005	<0.006	0.009	<0.0002	1190	0.295	0.008	0.652	53	0.011	7580	2810	28000	5660	0.006	
Quarterly																									
Lowest Value				711.0	0.0000	0.0000	0.0000	304	11000	0.0040	0.0000	0.0090	0.0000	1190	0.2390	0.0064	0.5020	53	0.0090	7580	2810	28000	5660	0.0060	
Mean of Sample				733.0	0.0000	0.0000	0.0000	330	12500	0.0057	0.0000	0.0743	0.0000	1260	0.2660	0.0079	0.5533	57	0.0100	7917	2990	28633	6053	0.0067	
Highest Sample Value				746.0	0.0005	0.0000	0.0000	353	14460	0.0060	0.0000	0.1210	0.0000	1130	0.2950	0.0093	0.6520	60	0.0110	8210	3240	29500	6270	0.0070	

Monitoring Point: 60 <IW05B>

Groundwater quality monitoring, Groundwater monitoring bore located to the south of the southern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	30/01/2025	30/01/2025	25/02/2025	7.23	44139	3.05	
Monthly	19/02/2025	19/02/2025	20/03/2025	6.69	46168	2.74	
Monthly	11/03/2025	29/04/2025	6.65	43971	2.78		
Monthly	01/04/2025	01/04/2025	22/05/2025	6.55	42912	2.78	
Monthly	15/05/2025	15/05/2025	30/06/2025	6.80	40122	2.88	
Monthly	10/06/2025	10/06/2025	28/07/2025	6.63	43261	2.87	
Monthly	10/07/2025	10/07/2025	28/08/2025	6.60	42448	2.78	
Monthly							
Monthly							
Monthly							
Monthly							
Monthly							
Number of Samples Collected				7	7	7	
Lowest Value				6.6	40122	2.740	
Mean of Sample				6.7	43289	2.840	
Highest Sample Value				7.2	46168	3.050	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Cyanide WAD (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	16/01/2025	28/01/2025	25/02/2025	458	<0.0005	<0.0005	<0.0002	200	12700	0.007	<0.008	0.181	<0.0002	1560	0.0268	0.0088	0.158	46	<0.002	9240	2960	34400	6930	<0.005	
Quarterly	01/04/2025	11/04/2025	22/05/2025	441	<0.0005	<0.0005	<0.0002	160	12800	0.003	<0.004	0.061	<0.0002	1430	0.0389	0.019	0.172	51	0.002	8460	2560	34100	6200	0.006	
Quarterly	10/07/2025	17/07/2025	28/08/2025	455	<0.0005	<0.0005	<0.0002	159	12600	0.007	<0.008	0.146	<0.0002	1430	0.0351	0.0206	0.256	48	<0.002	8530	2440	29300	6200	0.007	
Quarterly																									
Lowest Value				441.0	0.0000	0.0000	0.0000	159	12600	0.0030	0.0000	0.0610	0.0000	1430	0.0268	0.0088	0.1580	46	0.0020	8460	2440	29300	6200	0.0060	
Mean of Sample				451.3	0.0000	0.0000	0.0000	173	12700	0.0057	0.0000	0.1293	0.0000	1460	0.0303	0.0191	0.1953	48	0.0020	8743	2653	32000	6480	0.0065	
Highest Sample Value				458.0	0.0000	0.0000	0.0000	200	12800	0.0070	0.0000	0.1810	0.0000	1560	0.0389	0.0206	0.2560	51	0.0020	9240	2960	34400	6930	0.0070	

Monitoring Point: 61 <IW06A>

Groundwater quality monitoring, Groundwater monitoring bore located to the south of the southern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	08/01/2025	25/02/2025	6.54	39777	29.39		
Monthly	19/02/2025	19/02/2025	20/03/2025	5.96	37656	29.40	
Monthly	06/03/2025	29/04/2025	6.79	35455	29.41		
Monthly	01/04/2025	22/05/2025	6.79	35040	29.38		
Monthly	15/05/2025	15/05/2025	30/06/2025	7.03	32516	29.40	
Monthly	10/06/2025	10/06/2025	28/07/2025	6.83	35246	29.34	
Monthly	08/07/2025	08/07/2025	28/08/2025	6.79	34884	29.32	
Monthly							
Monthly							
Monthly							
Monthly							
Monthly							
Number of Samples Collected				7	7	7	
Lowest Value				6.0	32516	29.320	
Mean of Sample				6.7	35225	29.377	
Highest Sample Value				7.0	37656	29.410	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Cyanide WAD (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	08/01/2025	31/01/2025	25/02/2025	762	0.0008	<0.0005	<0.0002	316	10300	0.003	<0.004	0.028	0.0003	838	0.0301	0.0024	0.0391	40	0.005	6350	3140	26800	4240	0.011	
Quarterly	01/04/2025	11/04/2025	22/05/2025	748	0.0008	<0.0005	<0.0002	360	10100	0.002	<0.004	0.016	<0.0002	936	0.0172	0.003	0.0496	46	0.004	6830	2660	22500	4750	0.007	
Quarterly	10/07/2025	17/07/2025	28/08/2025	800	0.0008	<0.0005	<0.0002	366	9690	0.004	<0.008	0.012	<0.0002	909	0.0119	0.0034	0.0415	44	0.004	6830	2610	24500	4660	0.013	
Quarterly																									
Lowest Value				748.0	0.0008	0.0000	0.0000	316	9690	0.0020	0.0000	0.0120	0.0003	838	0.0119	0.0024	0.0391	40	0.0040	6350	2610	22500	4240	0.0070	
Mean of Sample				770.0	0.0008	0.0000	0.0000	347	10030	0.0030	0.0000	0.0187	0.0003	894	0.0197	0.0029	0.0434	43	0.0043	6670	2803	24600	4550	0.0103	
Highest Sample Value				800.0	0.0008	0.0000	0.0000	366	10300	0.0040	0.0000	0.0280	0.0003	936	0.0203	0.0034	0.0496	46	0.0050	6830	3140	26800	4750	0.0130	



Groundwater

Monitoring Point: 62 <IW048>

Groundwater quality monitoring, Groundwater monitoring bore located to the south of the southern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	08/01/2025	08/01/2025	25/02/2025	-	-	-	Dry
Monthly	19/02/2025	19/02/2025	20/03/2025	-	-	-	Dry
Monthly	06/03/2025	06/03/2025	29/04/2025	-	-	-	Dry
Monthly	01/04/2025	01/04/2025	22/05/2025	-	-	-	Dry
Monthly	15/05/2025	15/05/2025	30/06/2025	-	-	-	Dry
Monthly	10/06/2025	10/06/2025	28/07/2025	-	-	-	Dry
Monthly	08/07/2025	08/07/2025	28/08/2025	-	-	-	Dry
Monthly							
Monthly							
Monthly							
Monthly							
Monthly							
Number of Samples Collected				0	0	0	
Lowest Value				0.0	0	0.000	
Mean of Sample				0.0	0	0.000	
Highest Sample Value				0.0	0	0.000	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Cyanide WAD (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments	
Quarterly	08/01/2025	08/01/2025	25/02/2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Dry
Quarterly	01/04/2025	11/04/2025	22/05/2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Quarterly	10/07/2025	17/07/2025	28/08/2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Quarterly				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Lowest Value				0.0	0.0000	0.0000	0.0000	0	0	0.0000	0.0000	0.0000	0.0000	0	0.0000	0.0000	0.0000	0.0000	0	0.0000	0	0	0	0	0.0000	
Mean of Sample				0.0	0.0000	0.0000	0.0000	0	0	0.0000	0.0000	0.0000	0.0000	0	0.0000	0.0000	0.0000	0.0000	0	0.0000	0	0	0	0	0.0000	
Highest Sample Value				0.0	0.0000	0.0000	0.0000	0	0	0.0000	0.0000	0.0000	0.0000	0	0.0000	0.0000	0.0000	0.0000	0	0.0000	0	0	0	0	0.0000	

Monitoring Point: 63 <IW038A>

Groundwater quality monitoring, Groundwater monitoring bore located to the south of the southern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	16/01/2025	16/01/2025	25/02/2025	6.77	39550	23.24	
Monthly	19/02/2025	19/02/2025	20/03/2025	5.87	41390	23.29	
Monthly	06/03/2025	06/03/2025	29/04/2025	6.84	39183	23.3	
Monthly	01/04/2025	01/04/2025	22/05/2025	6.86	38497	23.26	
Monthly	15/05/2025	15/05/2025	30/06/2025	7.09	36144	23.31	
Monthly	10/06/2025	10/06/2025	28/07/2025	6.88	38657	23.23	
Monthly	08/07/2025	08/07/2025	28/08/2025	6.87	38082	23.20	
Monthly							
Monthly							
Monthly							
Monthly							
Monthly							
Number of Samples Collected				7	7	7	
Lowest Value				5.9	36144	23.200	
Mean of Sample				6.7	38829	23.261	
Highest Sample Value				7.1	41390	23.310	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Cyanide WAD (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	16/01/2025	28/01/2025	25/02/2025	6.77	<0.0005	<0.0005	<0.0002	448	11000	0.003	<0.008	0.105	<0.0002	946	0.0153	0.0011	0.0741	26	0.005	9010	3450	26700	5010	<0.005	
Quarterly	01/04/2025	11/04/2025	22/05/2025	7.13	<0.0005	<0.0005	<0.0002	406	11000	<0.001	<0.004	0.005	<0.0002	829	0.005	0.0014	0.015	26	0.004	7910	2940	28000	4430	<0.005	
Quarterly	10/07/2025	17/07/2025	28/08/2025	7.46	<0.0005	<0.0005	<0.0002	394	10400	0.006	<0.008	0.39	<0.0002	817	0.0339	0.0016	0.2630	24	0.005	7840	2990	27200	4330	<0.005	
Lowest Value				6.77.0	0.0000	0.0000	0.0000	394	10400	0.0030	0.0000	0.0050	0.0000	817	0.0050	0.0011	0.0152	24	0.0040	7840	2940	26700	4330	0.0000	
Mean of Sample				7.12.0	0.0000	0.0000	0.0000	416	10800	0.0045	0.0000	0.1667	0.0000	864	0.0181	0.0014	0.1174	25	0.0047	8253	3127	27300	4597	0.0000	
Highest Sample Value				7.46.0	0.0000	0.0000	0.0000	448	11000	0.0060	0.0000	0.3900	0.0000	946	0.0339	0.0016	0.2630	26	0.0050	9010	3450	28000	5010	0.0000	

Monitoring Point: 64 <IW038B>

Groundwater quality monitoring, Groundwater monitoring bore located to the south of the southern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	30/01/2025	25/02/2025		-	-	-	Dry
Monthly	19/02/2025	19/02/2025	20/03/2025	-	-	-	Dry
Monthly	06/03/2025	06/03/2025	29/04/2025	-	-	-	Dry
Monthly	01/04/2025	01/04/2025	22/05/2025	-	-	-	Dry
Monthly	15/05/2025	15/05/2025	30/06/2025	-	-	-	Dry
Monthly	10/06/2025	10/06/2025	28/07/2025	-	-	-	Dry
Monthly	08/07/2025	08/07/2025	28/08/2025	-	-	-	Dry
Monthly							
Monthly							
Monthly							
Monthly							
Monthly							
Number of Samples Collected				0	0	0	
Lowest Value				0.0	0	0.000	
Mean of Sample				0.0	0	0.000	
Highest Sample Value				0.0	0	0.000	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Cyanide WAD (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments	
Quarterly	30/01/2025	30/01/2025	25/02/2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Dry Dry
Quarterly	01/04/2025	11/04/2025	22/05/2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Quarterly	10/07/2025	17/07/2025	28/08/2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Lowest Value				0.0	0.0000	0.0000	0.0000	0	0	0.0000	0.0000	0.0000	0.0000	0	0.0000	0.0000	0.0000	0.0000	0	0.0000	0	0	0	0	0.0000	
Mean of Sample				0.0	0.0000	0.0000	0.0000	0	0	0.0000	0.0000	0.0000	0.0000	0	0.0000	0.0000	0.0000	0.0000	0	0.0000	0	0	0	0	0.0000	
Highest Sample Value				0.0	0.0000	0.0000	0.0000	0	0	0.0000	0.0000	0.0000	0.0000	0	0.0000	0.0000	0.0000	0.0000	0	0.0000	0	0	0	0	0.0000	

Monitoring Point: 65 <IW038A>

Groundwater quality monitoring, Groundwater monitoring bore located to the south of the southern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	16/01/2025	16/01/2025	25/02/2025	6.74	47558	11.15	
Monthly	19/02/2025	19/02/2025	20/03/2025	5.94	49587	11.16	
Monthly	06/03/2025	06/03/2025	29/04/2025	6.84	44313	11.22	
Monthly	01/04/2025	01/04/2025	22/05/2025	6.80	46208	11.21	
Monthly	15/05/2025	15/05/2025	30/06/2025	7.23	43551	11.18	
Monthly	12/06/2025	12/06/2025	28/07/2025	6.88	46375	11.13	
Monthly	17/07/2025	17/07/2025	28/08/2025	6.88	45506	11.13	
Monthly							
Monthly							
Monthly							
Monthly							
Monthly							
Number of Samples Collected				7	7	7	
Lowest Value				5.9	43551	11.130	
Mean of Sample				6.8	46130	11.169	
Highest Sample Value				7.2	49587	11.220	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Cyanide WAD (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	16/01/2025	28/01/2025	25/02/2025	7.24	<0.0005	<0.0005	0.0002	492	13200	0.017	<0.008	1.16	<0.0002	1130	0.0629	0.0026	0.073	35	0.031	11600	4600	36400	6130	<0.005	
Quarterly	02/04/2025	11/04/2025	22/05/2025	7.18	<0.0005	<0.0005	<0.0002	402	13400	0.003	<0.004	0.124	<0.0002	1030	0.0146	0.0017	0.0774	36	0.027	9930	4040	35100	5200	<0.005	
Quarterly	17/07/2025	17/07/2025	28/08/2025	7.13	<0.0005	<0.0005	0.0002	399	14300	0.002	<0.008	0.092	<0.0002	942	0.0064	0.0031	0.055	28	0.033	9400	4280	32100	4880	<0.005	
Lowest Value				7.13.0	0.0000	0.0000	0.0002	399	13200	0.0020	0.0000	0.0900	0.0000	942	0.0064	0.0017	0.0547	28	0.0270	9800	4040	32100	4880	0.0000	
Mean of Sample				7.18.3	0.0000	0.0002	0.0002	431	13613	0.0073	0.0000	0.4567	0.0000	1051	0.0280	0.0025	0.2350	33	0.0303	10310	4307	35513	5403	0.0000	
Highest Sample Value				7.24.0	0.0000	0.0000	0.0002	492	14300	0.0170	0.0000	1.1600	0.0000	1130	0.0629	0.0031	0.0730	36	0.0330	11600	4600	36100	6130	0.0000	



Monitoring Point: 66 <IWL02B>
Groundwater quality monitoring. Groundwater monitoring bore located to the south of the southern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Cyanide WAD (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	16/01/2025	28/01/2025	25/02/2025	431	<0.005	0.0007	<0.0002	540	15200	0.002	<0.008	0.014	<0.0002	1260	0.0029	0.0002	0.0013	17	0.003	12200	4790	44900	6540	0.014	
Quarterly	02/04/2025	11/04/2025	22/05/2025	294	0.0004	<0.00005	0.0004	710	5540	0.0091	<0.0004	0.211	0.0007	360	0.0083	0.001	<0.0003	22	0.0021	3550	1410	15100	1910	0.025	
Quarterly	17/07/2025	17/07/2025	28/08/2025	393	<0.0005	0.001	<0.0002	442	15500	0.009	<0.0004	0.022	0.0014	996	0.0096	0.0004	0.0014	12	0.004	10200	4350	34800	5200	0.061	
Quarterly	29/10/2025	29/10/2025	29/10/2025	294.0	0.0004	0.0007	0.0000	170	5540	0.0020	0.0000	0.0340	0.0007	0.0000	0.0029	0.0002	0.0013	12	0.0021	3550	1410	15100	1910	0.0140	
Mean of Sample				372.7	0.0004	0.0018	0.0000	384	12080	0.0067	0.0000	0.0823	0.0011	872	0.0069	0.0005	0.0017	17	0.0030	8650	3523	31600	4550	0.0333	
Highest Sample Value				431.0	0.0004	0.0038	0.0000	540	15500	0.0091	0.0000	0.2110	0.0014	1260	0.0096	0.0010	0.0024	22	0.0040	12200	4790	44900	6540	0.0610	

Monitoring Point: 67 <IWL01A>
Groundwater quality monitoring. Groundwater monitoring bore located to the south of the southern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Cyanide WAD (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	16/01/2025	28/01/2025	25/02/2025	571	<0.005	<0.005	<0.0002	580	12800	<0.001	<0.008	0.191	<0.0002	1150	0.7380	0.0026	0.0424	26	0.008	10800	4750	36900	7010	<0.005	
Quarterly	02/04/2025	11/04/2025	22/05/2025	577	<0.005	<0.0004	457	13300	0.007	<0.004	<0.0002	0.016	<0.0002	1200	0.686	0.0015	0.0579	27	0.024	9420	4230	36200	6080	0.006	
Quarterly	08/07/2025	17/07/2025	28/08/2025	598	<0.005	<0.005	<0.0003	485	12900	0.003	<0.008	<0.005	<0.0002	1180	0.2060	0.0018	0.0874	26	0.027	9670	4630	35500	6070	0.005	
Quarterly																									
Lowest Value	571.0	0.0000	0.0000	0.0003	457	13300	0.0030	0.0060	0.0000	0.0000	0.0000	0.0160	0.0000	0.0424	26	0.0080	9420	4230	35500	6070	0.0050				
Mean of Sample	582.0	0.0000	0.0000	0.0004	507	13000	0.0050	0.0000	0.0000	0.0000	0.0000	0.1035	0.0000	0.5433	0.0000	0.0626	26	0.0157	9963	4537	36200	6387	0.0055		
Highest Sample Value	598.0	0.0000	0.0000	0.0004	580	13300	0.0070	0.0000	0.0000	0.0000	0.0000	0.1910	0.0000	0.0874	27	0.0270	10800	4750	36900	7010	0.0060				

Monitoring Point: 68 <IWL01B>
Groundwater quality monitoring. Groundwater monitoring bore located to the south of the southern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Cyanide WAD (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	16/01/2025	28/01/2025	25/02/2025	366	<0.005	<0.005	<0.002	261	10400	0.002	<0.008	0.01	<0.002	878	0.0403	0.0005	0.007	2	<0.002	8480	3030	27300	4270	<0.005	
Quarterly	02/04/2025	11/04/2025	22/05/2025	373	<0.005	<0.005	<0.002	207	10700	0.004	<0.008	0.006	<0.002	777	0.091	0.0015	0.0154	4	0.004	7670	2140	26900	3720	<0.005	
Quarterly	08/07/2025	17/07/2025	28/08/2025	381	<0.005	<0.005	<0.002	205	9630	0.002	<0.008	0.006	<0.002	743	0.024	0.0003	0.0029	3	<0.002	7420	2560	25200	3570	<0.005	
Quarterly																									
Lowest Value	366.0	0.0000	0.0000	0.0000	205	9630	0.0020	0.0000	0.0340	0.0003	0.0029	0.0060	0.0000	7420	2560	25200	3570	0.0000							
Mean of Sample	373.3	0.0000	0.0000	0.0000	224	10240	0.0027	0.0000	0.0073	0.0008	0.0084	0.003	0.0040	7857	2777	26467	3853	0.0000							
Highest Sample Value	381.0	0.0000	0.0000	0.0000	261	10700	0.0040	0.0000	0.0910	0.0015	0.0154	4	0.0040	8480	3030	27300	4270	0.0000							



Ambient Noise

Q1 Noise Monitoring

	Daytime Mine Operating Intrusive Noise Levels (dBA re 20 µPa)				Mine Contributed LA _{eq(25minutes)} - dBA		Noise Criteria LA _{eq(25minutes)} - dBA	Comments
	Location	Date Sampled	Date Obtained	Date Published	Survey 1	Survey 2		
New Lake Foreshore	N01	18/02/2025	10/03/2025	20/03/2025	25	27	-	
Laurel Park	N11	18/02/2025	10/03/2025	20/03/2025	20	22	35	
Lakeview III (New Westella)	N09	18/02/2025	10/03/2025	20/03/2025	<20	<20	38	
Bramboyne	N10	18/02/2025	10/03/2025	20/03/2025	21	<20	35	
The Glen	N12	18/02/2025	10/03/2025	20/03/2025	<20	<20	37	
Caloola 2	N15	18/02/2025	10/03/2025	20/03/2025	<20	<20	35	
Lakeview I & II (Lakeview)	N17	18/02/2025	10/03/2025	20/03/2025	<20	<20	36	
Foxman Downs 2	N16	18/02/2025	10/03/2025	20/03/2025	<20	<20	36	

<20 - Mine noise emission inaudible or barely audible

	Evening Mine Operating Intrusive Noise Levels (dBA re 20 µPa)				Mine Contributed LA _{eq(25minutes)} - dBA		Noise Criteria LA _{eq(25minutes)} - dBA	Comments
	Location	Date Sampled	Date Obtained	Date Published	Survey 1	Survey 2		
New Lake Foreshore	N01	19/02/2025	10/03/2025	20/03/2025	26	25	-	
Laurel Park	N11	19/02/2025	10/03/2025	20/03/2025	<20	<20	35	
Lakeview III (New Westella)	N09	19/02/2025	10/03/2025	20/03/2025	<20	<20	38	
Bramboyne	N10	19/02/2025	10/03/2025	20/03/2025	22	<20	35	
The Glen	N12	19/02/2025	10/03/2025	20/03/2025	<20	<20	37	
Caloola 2	N15	19/02/2025	10/03/2025	20/03/2025	<20	<20	35	
Lakeview I & II (Lakeview)	N17	19/02/2025	10/03/2025	20/03/2025	<20	<20	36	
Foxman Downs 2	N16	19/02/2025	10/03/2025	20/03/2025	<20	<20	36	

<20 - Mine noise emission inaudible or barely audible

	Night time Mine Operating Intrusive Noise Levels (dBA re 20 µPa)				Mine Contributed LA _{eq(25minutes)} - dBA		Noise Criteria LA _{eq(25minutes)} - dBA	Night dB(A) LAFmax	Comments
	Location	Date Sampled	Date Obtained	Date Published	Survey 1	Survey 2			
New Lake Foreshore	N01	19/02/2025	10/03/2025	20/03/2025	27	26		<52	
Laurel Park	N11	19/02/2025	10/03/2025	20/03/2025	<20	<20	35	<52	
Lakeview III (New Westella)	N09	19/02/2025 - 20/02/2025	10/03/2025	20/03/2025	21	21	38	<52	
Bramboyne	N10	19/02/2025	10/03/2025	20/03/2025	23	24	35	<52	
The Glen	N12	19/02/2025	10/03/2025	20/03/2025	21	21	37	<52	
Caloola 2	N15	19/02/2025	10/03/2025	20/03/2025	<20	<20	35	<52	
Lakeview I & II (Lakeview)	N17	20/02/2025	10/03/2025	20/03/2025	21	20	36	<52	
Foxman Downs 2	N16	19/02/2025	10/03/2025	20/03/2025	<20	<20	36	<52	

<20 - Mine noise emission inaudible or barely audible

Q2 Noise Monitoring

	Daytime Mine Operating Intrusive Noise Levels (dBA re 20 µPa)				Mine Contributed LA _{eq(25minutes)} - dBA		Noise Criteria LA _{eq(25minutes)} - dBA	Comments
	Location	Date Sampled	Date Obtained	Date Published	Survey 1	Survey 2		
New Lake Foreshore	N01	20/05/2025	19/06/2025	30/06/2025	<24	<29	-	
Laurel Park	N11	20/05/2025	19/06/2025	30/06/2025	<20	<20	35	
Lakeview (New Westella)	N09	20/05/2025	19/06/2025	30/06/2025	<20	<20	38	
Bramboyne	N10	20/05/2025	19/06/2025	30/06/2025	<20	<20	35	
The Glen	N12	20/05/2025	19/06/2025	30/06/2025	<20	<20	37	
Caloola 2	N15	20/05/2025	19/06/2025	30/06/2025	<20	<20	35	
Lakeview I & II (Lakeview)	N17	20/05/2025	19/06/2025	30/06/2025	<20	<20	36	
Foxman Downs 2	N16	20/05/2025	19/06/2025	30/06/2025	<20	<20	36	

<20 - Mine noise emission inaudible or barely audible

	Evening Mine Operating Intrusive Noise Levels (dBA re 20 µPa)				Mine Contributed LA _{eq(25minutes)} - dBA		Noise Criteria LA _{eq(25minutes)} - dBA	Comments
	Location	Date Sampled	Date Obtained	Date Published	Survey 1	Survey 2		
New Lake Foreshore	N01	21/05/2025	19/06/2025	30/06/2025	29	30		
Laurel Park	N11	21/05/2025	19/06/2025	30/06/2025	<20	<20	35	
Lakeview (New Westella)	N09	21/05/2025	19/06/2025	30/06/2025	30	27	38	
Bramboyne	N10	21/05/2025	19/06/2025	30/06/2025	<20	<20	35	
The Glen	N12	21/05/2025	19/06/2025	30/06/2025	<20	<20	37	
Caloola 2	N15	21/05/2025	19/06/2025	30/06/2025	<20	21	35	
Lakeview I & II (Lakeview)	N17	21/05/2025	19/06/2025	30/06/2025	<20	<20	36	
Foxman Downs 2	N16	21/05/2025	19/06/2025	30/06/2025	<20	24	36	

<20 - Mine noise emission inaudible or barely audible

	Night time Mine Operating Intrusive Noise Levels (dBA re 20 µPa)				Mine Contributed LA _{eq(25minutes)} - dBA		Noise Criteria LA _{eq(25minutes)} - dBA	Night dB(A) LAFmax	Comments
	Location	Date Sampled	Date Obtained	Date Published	Survey 1	Survey 2			
New Lake Foreshore	N01	21/05/2025	19/06/2025	30/06/2025	30	29		<52	
Laurel Park	N11	21/05/2025	19/06/2025	30/06/2025	<20	<20	35	<52	
Lakeview (New Westella)	N09	22/05/2025	19/06/2025	30/06/2025	23	23	38	<52	
Bramboyne	N10	21/05/2025	19/06/2025	30/06/2025	21	22	35	<52	
The Glen	N12	21/05/2025	19/06/2025	30/06/2025	<20	<20	37	<52	
Caloola 2	N15	21/05/2025	19/06/2025	30/06/2025	<20	<20	35	<52	
Lakeview I & II (Lakeview)	N17	21/05/2025 - 22/05/2025	19/06/2025	30/06/2025	21	21	36	<52	
Foxman Downs 2	N16	21/05/2025 - 22/05/2025	19/06/2025	30/06/2025	<20	<20	36	<52	

<20 - Mine noise emission inaudible or barely audible



Ambient Noise

Q3 Noise Monitoring

Daytime Mine Operating Intrusive Noise Levels (dBA re 20 µPa)				Mine Contributed LA _{eq(5minutes)} - dBA		Noise Criteria LA _{eq(5minutes)} - dBA	Comments
Location	Date Sampled	Date Obtained	Date Published	Survey 1	Survey 2		
N01							
N11							
N09							
N10							
N12							
N15							
N17							
N16							

<20 - Mine noise emission inaudible or barely audible

Evening Mine Operating Intrusive Noise Levels (dBA re 20 µPa)				Mine Contributed LA _{eq(5minutes)} - dBA		Noise Criteria LA _{eq(5minutes)} - dBA	Comments
Location	Date Sampled	Date Obtained	Date Published	Survey 1	Survey 2		
N01							
N11							
N09							
N10							
N12							
N15							
N17							
N16							

<20 - Mine noise emission inaudible or barely audible

Night time Mine Operating Intrusive Noise Levels (dBA re 20 µPa)				Mine Contributed LA _{eq(5minutes)} - dBA		Noise Criteria LA _{eq(5minutes)} - dBA	Night dB(A) LAFmax	Comments
Location	Date Sampled	Date Obtained	Date Published	Survey 1	Survey 2			
N01								
N11								
N09								
N10								
N12								
N15								
N17								
N16								

<20 - Mine noise emission inaudible or barely audible

Q4 Noise Monitoring

Daytime Mine Operating Intrusive Noise Levels (dBA re 20 µPa)				Mine Contributed LA _{eq(5minutes)} - dBA		Noise Criteria LA _{eq(5minutes)} - dBA	Comments
Location	Date Sampled	Date Obtained	Date Published	Survey 1	Survey 2		
N01							
N11							
N09							
N10							
N12							
N15							
N17							
N16							

<20 - Mine noise emission inaudible or barely audible

Evening Mine Operating Intrusive Noise Levels (dBA re 20 µPa)				Mine Contributed LA _{eq(5minutes)} - dBA		Noise Criteria LA _{eq(5minutes)} - dBA	Comments
Location	Date Sampled	Date Obtained	Date Published	Survey 1	Survey 2		
N01							
N11							
N09							
N10							
N12							
N15							
N17							
N16							

<20 - Mine noise emission inaudible or barely audible

Mine Operating Intrusive Noise Levels (dBA re 20 µPa)				Mine Contributed LA _{eq(5minutes)} - dBA		Noise Criteria LA _{eq(5minutes)} - dBA	Night dB(A) LAFmax	Comments
Location	Date Sampled	Date Obtained	Date Published	Survey 1	Survey 2			
N01								
N11								
N09								
N10								
N12								
N15								
N17								
N16								

<20 - Mine noise emission inaudible or barely audible

Blasting

Table 1: Compliance percentages during the current calendar year

Type of Exceedance	Total Number of Blasts (current calendar year)	No. of Exceedances (Current Calendar Year)			
		Daily Operation	Evening Operation	Night, Sunday and Public Holiday	Total % Exceedance
Open Pit					
Vibration	114	0	0	0	0.0%
Overpressure	114	0	0	0	0.0%
Underground					
Vibration	412	0	0	0	0.0%
Overpressure	412	0	0	0	0.0%
Combined					
Vibration	526	0	0	0	0.0%
Overpressure	526	0	0	0	0.0%

Date obtained: 18/08/2025



Cyanide

Monitoring Point: 48

Water quality monitoring, automated sampler located at the processing plant

Frequency	Month	No Sampled during Month	Total Cyanide (mg/L)				Comments
			Minimum	Mean	Median	Maximum	
Weekly	January	4	2.68	5.25	5.86	6.63	
Weekly	February	4	3.28	8.04	6.38	16.13	
Weekly	March	3	2.64	3.20	3.12	3.83	Shutdown 18/03/2025 - 14/04/2025
Weekly	April	2	3.97	5.31	5.31	6.64	Shutdown 18/03/2025 - 14/04/2025
Weekly	May	4	0.59	4.24	3.97	8.43	
Weekly	June	5	1.24	3.80	2.91	8.92	
Weekly	July	4	0.58	1.95	2.16	2.91	
Weekly	August						
Weekly	September						
Weekly	October						
Weekly	November						
Weekly	December						

Frequency	Month	No Sampled during Month	WAD Cyanide (mg/L)		Concentration Limits		Comments
			Minimum	Maximum	90th Percentile	100th Percentile	
Twice daily	January	62	1.54	10.32	20.00	30.00	
Twice daily	February	56	0.41	14.67	20.00	30.00	
Twice daily	March	45	0.31	9.24	20.00	30.00	Shutdown 18/03/2025 - 14/04/2025
Twice daily	April	30	0.18	9.77	20.00	30.00	Shutdown 18/03/2025 - 14/04/2025
Twice daily	May	62	0.25	9.51	20.00	30.00	
Twice daily	June	60	0.29	7.72	20.00	30.00	
Twice daily	July	62	0.14	6.53	20.00	30.00	
Twice daily	August						
Twice daily	September						
Twice daily	October						
Twice daily	November						
Twice daily	December						

[illegible]



EPL Exceedances

Monitoring Point	Monitoring Point Type	Date Sampled	Date Obtained	Date Reported	Parameter	Value	EPL Limit	Comments