Dust

EPL No: 11912 http://www.environment.nsw.gov.au/prpoeoapp/
Licensee: Evolution Mining (Cowal) Pty Limited
Address: PO Box 210 West Wyalong NSW 2671

Monitoring Point: 1 <McLintocks Shed>
Dust monitoring, Dust gauge located on private property to the west of ML1535 boundary

Frequency	Date Sampled	Date Obtained	Date Published	Particulates ($g/m^2/mth$)	Comments
Monthly	06/02/2017	17/02/2017	21/02/2017	1.3	
Monthly	01/03/2017	17/03/2017	20/03/2017	1.1	
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Frequency	Date Sampled	Date Obtained	Date Published	Aluminium (mg/kg)	Arsenic (mg/kg)	Cadmium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Selenium (mg/kg)	Zinc (mg/kg)	Comments
Six Monthly											
Six Monthly											

Monitoring Point: 2 <Site Office>
Dust monitoring, Dust gauge located on private property to the south of ML1535 boundary

Frequency	Date Sampled	Date Obtained	Date Published	Particulates ($g/m^2/mth$)	Comments
Monthly	31/01/2017	17/02/2017	21/02/2017	2.7	
Monthly	01/03/2017	17/03/2017	20/03/2017	0.9	
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Frequency	Date Sampled	Date Obtained	Date Published	Aluminium (mg/kg)	Arsenic (mg/kg)	Cadmium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Selenium (mg/kg)	Zinc (mg/kg)	Comments
Six Monthly											
Six Monthly											

Monitoring Point: 3 <DG05>
Dust monitoring, Dust gauge located within Lake Cowal to the east of ML1535 boundary

Frequency	Date Sampled	Date Obtained	Date Published	Particulates ($g/m^2/mth$)	Comments
Monthly	02/02/2017	17/02/2017	21/02/2017	13.8	Elevated particulates due to wave action against gauge and deposition of lake sediments
Monthly	02/03/2017	17/03/2017	20/03/2017	3.9	
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Frequency	Date Sampled	Date Obtained	Date Published	Aluminium (mg/kg)	Arsenic (mg/kg)	Cadmium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Selenium (mg/kg)	Zinc (mg/kg)	Comments
Six Monthly											
Six Monthly											

Monitoring Point: 4 <DG09>
Dust monitoring, Dust gauge located on private property to the south of ML1535 boundary

Frequency	Date Sampled	Date Obtained	Date Published	Particulates ($g/m^2/mth$)	Comments
Monthly	31/01/2017	17/02/2017	21/02/2017	3.9	
Monthly	01/03/2017	17/03/2017	20/03/2017	2.7	
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Frequency	Date Sampled	Date Obtained	Date Published	Aluminium (mg/kg)	Arsenic (mg/kg)	Cadmium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Selenium (mg/kg)	Zinc (mg/kg)	Comments
Six Monthly											
Six Monthly											

Monitoring Point: 5 <Site 52>
Dust monitoring, Dust gauge located within ML1535 and north of the open pit

Frequency	Date Sampled	Date Obtained	Date Published	Particulates ($g/m^2/mth$)	Comments
Monthly	03/02/2017	17/02/2017	21/02/2017	2.0	
Monthly	02/03/2017	17/03/2017	20/03/2017	0.7	
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Frequency	Date Sampled	Date Obtained	Date Published	Aluminium (mg/kg)	Arsenic (mg/kg)	Cadmium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Selenium (mg/kg)	Zinc (mg/kg)	Comments
Six Monthly											
Six Monthly											

Dust

EPL No: 11912 http://www.environment.nsw.gov.au/prpoeoapp/
Licensee: Evolution Mining (Cowal) Pty Limited

Monitoring Point: 6 <DG01>
Dust monitoring, Dust gauge located on private property to the north of ML1535 boundary

Frequency	Date Sampled	Date Obtained	Date Published	Particulates ($g/m^2/mth$)	Comments
Monthly	06/02/2017	17/02/2017	21/02/2017	3.0	
Monthly	01/03/2017	17/03/2017	20/03/2017	0.8	
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Frequency	Date Sampled	Date Obtained	Date Published	Aluminium (mg/kg)	Arsenic (mg/kg)	Cadmium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Selenium (mg/kg)	Zinc (mg/kg)	Comments
Six Monthly											
Six Monthly											

Monitoring Point: 6 <HV1>
Dust monitoring, High volume sampler located on private property to the north of ML1535 boundary

Frequency	Date Sampled	Date Obtained	Date Published	Total Suspended Particles ($\mu g/m^3$)	Comments
Every 6 days	03/01/2017	07/03/2017	20/03/2017	25.0	
Every 6 days	09/01/2017	07/03/2017	20/03/2017	53.2	
Every 6 days	15/01/2017	07/03/2017	20/03/2017	29.9	
Every 6 days	21/01/2017	07/03/2017	20/03/2017	31.3	
Every 6 days	27/01/2017	07/03/2017	20/03/2017	34.8	
Every 6 days	02/02/2017	07/03/2017	20/03/2017	39.0	
Every 6 days	08/02/2017	07/03/2017	20/03/2017	27.1	
Every 6 days	14/02/2017	07/03/2017	20/03/2017	47.1	
Every 6 days	20/02/2017	07/03/2017	20/03/2017	46.4	
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Surface Water

EPL No: 11912 http://www.environment.nsw.gov.au/prpoeoapp/
Licensee: Evolution Mining (Cowal) Pty Limited
Address: PO Box 210 West Wyalong NSW 2671

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
Weekly	03/01/2017	11/01/2017	21/02/2017	7.8	1751	20	
Weekly	09/01/2017	16/01/2017	21/02/2017	7.5	1717	20	
Weekly	17/01/2017	24/01/2017	21/02/2017	8.0	233	11	Labatory EC results = 2320 (µS/cm)
Weekly	25/01/2017	01/02/2017	21/02/2017	7.7	2937	4	
Weekly	31/01/2017	09/02/2017	21/02/2017	8.4	2014	14	
Weekly	07/02/2017	14/02/2017	21/02/2017	7.8	3481	42	
Weekly	14/02/2017	20/02/2017	21/02/2017	8.7	3820	5	
Weekly	21/02/2017	27/02/2017	20/03/2017	5.7	4190	10	
Weekly	28/02/2017	06/03/2017	20/03/2017	8.5	4370	10	
Weekly	07/03/2017	13/03/2017	20/03/2017	8.4	4830	39	
Weekly	14/03/2017	14/03/2017	20/03/2017	8.1	4640		Awaiting laboratory results
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Surface Water

EPL No: 11912 http://www.environment.nsw.gov.au/prpoeoapp/
Licensee: Evolution Mining (Cowal) Pty Limited
Address: PO Box 210 West Wyalong NSW 2671

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
Weekly	03/01/2017	11/01/2017	21/02/2017	6.91	36540	11	
Weekly	09/01/2017	16/01/2017	21/02/2017	7.47	697	65	Labatory EC results = 77700 (µS/cm)
Weekly	17/01/2017	24/01/2017	21/02/2017	-	-	-	No water present in D4
Weekly	25/01/2017	01/02/2017	21/02/2017	-	-	-	No water present in D4
Weekly	31/01/2017	09/02/2017	21/02/2017	-	-	-	No water present in D4
Weekly	07/02/2017	14/02/2017	21/02/2017	-	-	-	No water present in D4
Weekly	14/02/2017	20/02/2017	21/02/2017	-	-	-	No water present in D4
Weekly	21/02/2017	27/02/2017	20/03/2017	-	-	-	No water present in D4
Weekly	28/02/2017	06/03/2017	20/03/2017	-	-	-	No water present in D4
Weekly	07/03/2017	13/03/2017	20/03/2017	-	-	-	No water present in D4
Weekly	14/03/2017	14/03/2017	20/03/2017	-	-	-	No water present in D4
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Lake Water

EPL No: 11912 http://www.environment.nsw.gov.au/prpoeoapp/
Licensee: Evolution Mining (Cowal) Pty Limited
Address: PO Box 210 West Wyalong NSW 2671

Monitoring Point: 14 <P1>
Ambient water quality monitoring, Surface water point within ML1535 on Lake Cowal

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	Total Suspended Solids (mg/L)	Comments
Weekly	05/01/2017	13/01/2017	21/02/2017	7.90	275	234	
Weekly	10/01/2017	18/01/2017	21/02/2017	7.93	1006	171	Labatory EC results = 287(µS/cm)
Weekly	19/01/2017	02/02/2017	21/02/2017	8.00	297	312	
Weekly	25/01/2017	01/02/2017	21/02/2017	7.89	388	221	
Weekly	01/02/2017	09/02/2017	21/02/2017	7.51	415	296	
Weekly	06/02/2017	13/02/2017	21/02/2017	7.75	422	196	
Weekly	14/02/2017	14/02/2017	21/02/2017	8.26	310	274	
Weekly	21/02/2017	21/02/2017	20/03/2017	7.25	426	189	
Weekly	02/03/2017	09/03/2017	20/03/2017	8.15	363	159	
Weekly	09/03/2017	16/03/2017	20/03/2017	8.21	388	293	
Weekly	16/03/2017	16/03/2017	20/03/2017	7.73	503		Awaiting laboratory results for TSS
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Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Copper (mg/L)	Lead (mg/L)	Mercury (mg/L)	Selenium (mg/L)	Zinc (mg/L)	Comments
Quarterly	19/01/2017	02/02/2017	21/02/2017	108	0.006	<0.0001	0.012	0.01	<0.0001	<0.01	0.009	
Quarterly												
Quarterly												
Quarterly												

Lake Water

EPL No: 11912 http://www.environment.nsw.gov.au/prpoeoapp/
Licensee: Evolution Mining (Cowal) Pty Limited
Address: PO Box 210 West Wyalong NSW 2671

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

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	Total Suspended Solids (mg/L)	Comments
Weekly	05/01/2017	13/01/2017	21/02/2017	8.11	285	78	
Weekly	10/01/2017	18/01/2017	21/02/2017	7.91	327	120	
Weekly	19/01/2017	02/02/2017	21/02/2017	8.02	301	328	
Weekly	25/01/2017	01/02/2017	21/02/2017	7.89	388	290	
Weekly	01/02/2017	09/02/2017	21/02/2017	7.64	416	260	
Weekly	06/02/2017	13/02/2017	21/02/2017	7.80	421	127	
Weekly	14/02/2017	14/02/2017	21/02/2017	8.22	311	264	
Weekly	21/02/2017	21/02/2017	20/03/2017	7.38	430	123	
Weekly	02/03/2017	09/03/2017	20/03/2017	8.19	360	111	
Weekly	09/03/2017	16/03/2017	20/03/2017	8.21	368	376	
Weekly	16/03/2017	16/03/2017	20/03/2017	7.79	503		Awaiting laboratory results for TSS
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Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Copper (mg/L)	Lead (mg/L)	Mercury (mg/L)	Selenium (mg/L)	Zinc (mg/L)	Comments
Quarterly	19/01/2017	02/02/2017	21/02/2017	106	0.004	<0.0001	0.004	<0.001	<0.0001	<0.01	0.014	
Quarterly												
Quarterly												
Quarterly												

Lake Water

EPL No: 11912 http://www.environment.nsw.gov.au/prpoeoapp/
Licensee: Evolution Mining (Cowal) Pty Limited
Address: PO Box 210 West Wyalong NSW 2671

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

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	Total Suspended Solids (mg/L)	Comments
Weekly	05/01/2017	13/01/2017	21/02/2017	8.08	278	129	
Weekly	10/01/2007	18/01/2017	21/02/2017	7.95	288	144	
Weekly	19/01/2017	02/02/2017	21/02/2017	7.89	300	288	
Weekly	25/01/2017	01/02/2017	21/02/2017	8.07	403	377	
Weekly	01/02/2017	09/02/2017	21/02/2017	7.73	417	248	
Weekly	06/02/2017	13/02/2017	21/02/2017	7.85	431	154	
Weekly	14/02/2017	14/02/2017	21/02/2017	8.22	310	278	
Weekly	21/02/2017	21/02/2017	20/03/2017	7.50	428	212	
Weekly	02/03/2017	09/03/2017	20/03/2017	8.11	352	103	
Weekly	09/03/2017	16/03/2017	20/03/2017	8.18	368	396	
Weekly	16/03/2017	16/03/2017	20/03/2017	7.80	500		Awaiting laboratory results for TSS
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Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Copper (mg/L)	Lead (mg/L)	Mercury (mg/L)	Selenium (mg/L)	Zinc (mg/L)	Comments
Quarterly	19/01/2017	02/02/2017	21/02/2017	105	0.003	<0.0001	0.003	<0.001	<0.0001	<0.01	0.009	
Quarterly												
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Quarterly												

Lake Water

EPL No: 11912 http://www.environment.nsw.gov.au/prpoeoapp/
Licensee: Evolution Mining (Cowal) Pty Limited
Address: PO Box 210 West Wyalong NSW 2671

Monitoring Point: 17 <B1>
Ambient water quality monitoring, Surface water point within ML1535 on Lake Cowal

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	Total Suspended Solids (mg/L)	Comments
Weekly	05/01/2017	13/01/2017	21/02/2017	7.90	191	124	
Weekly	10/01/2017	18/01/2017	21/02/2017	7.81	286	156	
Weekly	19/01/2017	02/02/2017	21/02/2017	7.87	300	281	
Weekly	25/01/2017	01/02/2017	21/02/2017	7.75	383	225	
Weekly	01/02/2017	09/02/2017	21/02/2017	7.35	409	208	
Weekly	06/02/2017	13/02/2017	21/02/2017	7.83	423	90	
Weekly	14/02/2017	14/02/2017	21/02/2017	8.18	311	265	
Weekly	21/02/2017	21/02/2017	20/03/2017	7.57	428	210	
Weekly	02/03/2017	09/03/2017	20/03/2017	8.19	358	99	
Weekly	09/03/2017	16/03/2017	20/03/2017	8.14	370	341	
Weekly	16/03/2017	16/03/2017	20/03/2017	7.81	493		Awaiting laboratory results for TSS
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Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Copper (mg/L)	Lead (mg/L)	Mercury (mg/L)	Selenium (mg/L)	Zinc (mg/L)	Comments
Quarterly	19/01/2017	02/02/2017	21/02/2017	105	0.004	<0.0001	0.003	<0.001	<0.0001	<0.01	0.008	
Quarterly												
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Quarterly												

Lake Water

EPL No: 11912 http://www.environment.nsw.gov.au/prpoeoapp/
Licensee: Evolution Mining (Cowal) Pty Limited
Address: PO Box 210 West Wyalong NSW 2671

Monitoring Point: 18 <B5>
Ambient water quality monitoring, Surface water point on Lake Cowal to the south-east of ML1535 boundary

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	Total Suspended Solids (mg/L)	Comments
Weekly	05/01/2017	13/01/2017	21/02/2017	8.15	290	322	
Weekly	10/01/2017	18/01/2017	21/02/2017	7.64	278	158	
Weekly	19/01/2017	02/02/2017	21/02/2017	7.91	307	311	
Weekly	25/01/2017	01/02/2017	21/02/2017	7.82	397	223	
Weekly	01/02/2017	09/02/2017	21/02/2017	6.97	396	175	
Weekly	06/02/2017	13/02/2017	21/02/2017	7.90	422	277	
Weekly	14/02/2017	14/02/2017	21/02/2017	8.24	309	770	
Weekly	21/02/2017	21/02/2017	20/03/2017	7.65	428	361	
Weekly	02/03/2017	09/03/2017	20/03/2017	8.11	352	274	
Weekly	09/03/2017	16/03/2017	20/03/2017	8.23	359	516	
Weekly	16/03/2017	16/03/2017	20/03/2017	7.89	478		Awaiting laboratory results for TSS
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Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Copper (mg/L)	Lead (mg/L)	Mercury (mg/L)	Selenium (mg/L)	Zinc (mg/L)	Comments
Quarterly	19/01/2017	02/02/2017	21/02/2017	105	0.004	<0.0001	0.005	<0.001	<0.0001	<0.01	0.011	
Quarterly												
Quarterly												
Quarterly												

Groundwater

EPL No: 11912 environment.nsw.gov.au/prpoeoapp/
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Address: PO Box 210 West Wyalong NSW 2671

Monitoring Point: 19 <P555A-R>
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	09/01/2017	23/01/2017	21/02/2017	6.68	32240	20.924	
Monthly	14/02/2017	14/02/2017	20/03/2017	6.76	32180	20.980	
Monthly							
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Monthly							

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)	Lead (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Hardness (mg/L)	Total Suspended Solids (mg/L)	Zinc (mg/L)	Comments
Quarterly	09/01/2017	23/01/2017	21/02/2017	869	<0.0005	<0.0005	0.0006	287	9780	<0.001	<0.004	<0.0002	750	23	0.002	5920	2320	3800	<1	0.068	
Quarterly																					
Quarterly																					
Quarterly																					

Monitoring Point: 20 <P555B>
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	-	-	21/02/2017	-	-	-	Bore is dry

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)	Lead (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Hardness (mg/L)	Total Suspended Solids (mg/L)	Zinc (mg/L)	Comments
Quarterly	-	-	21/02/2017	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Bore is dry

Monitoring Point: 21 <P558A-R>
Groundwater quality monitoring, Piezometer located up 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	09/01/2017	23/01/2017	21/02/2017	6.80	35580	19.348	
Monthly	06/02/2017	06/02/2017	20/03/2017	6.95	35530	19.930	
Monthly							
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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)	Lead (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Hardness (mg/L)	Total Suspended Solids (mg/L)	Zinc (mg/L)	Comments
Quarterly	09/01/2017	23/01/2017	21/02/2017	810	<0.0005	<0.0005	<0.0002	290	10600	0.017	<0.004	<0.0002	780	27	0.007	7300	2950	3940	22	0.056	
Quarterly																					
Quarterly																					
Quarterly																					

Monitoring Point: 22 <P412A-R>
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	30/01/2017	06/02/2017	21/02/2017	6.63	39840	10.645	
Monthly	15/02/2017	15/02/2017	20/03/2017	6.57	42470	10.665	
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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)	Lead (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Hardness (mg/L)	Total Suspended Solids (mg/L)	Zinc (mg/L)	Comments
Quarterly	30/01/2017	06/02/2017	21/02/2017	505	<0.0005	0.0009	0.0007	687	12600	0.002	<0.004	<0.0002	1310	44	0.003	7870	2770	7110	8	0.005	
Quarterly																					
Quarterly																					
Quarterly																					

Monitoring Point: 23 <P412B>
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	-	-	21/02/2017	-	-	-	Bore is dry

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)	Lead (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Hardness (mg/L)	Total Suspended Solids (mg/L)	Zinc (mg/L)	Comments
Quarterly	-	-	21/02/2017	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Bore is dry

Groundwater

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Monitoring Point: 24 <P414A>
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	18/01/2017	27/01/2017	21/02/2017	6.54	42250	12.230	
Monthly	10/02/2017	10/02/2017	20/03/2017	6.79	42290	12.245	
Monthly							
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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)	Lead (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Hardness (mg/L)	Total Suspended Solids (mg/L)	Zinc (mg/L)	Comments
Quarterly	18/01/2017	27/01/2017	21/02/2017	588	<0.0005	<0.0005	<0.0002	547	14500	<0.001	<0.020	<0.0002	1220	47	0.014	8410	3070	6390	36	<0.005	LOR raised for Total Cyanide and WAD Cyanide due to sample matrix
Quarterly																					
Quarterly																					
Quarterly																					

Monitoring Point: 25 <P414B>
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	18/01/2017	27/01/2017	21/02/2017	6.62	30890	12.340	Labatory EC results = 42100 µS/cm
Monthly	10/02/2017	10/02/2017	20/03/2017	6.80	41360	12.295	
Monthly							
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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)	Lead (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Hardness (mg/L)	Total Suspended Solids (mg/L)	Zinc (mg/L)	Comments
Quarterly	18/01/2017	27/01/2017	21/02/2017	612	<0.0005	<0.0005	<0.0002	456	14400	<0.001	<0.020	0.0003	1330	35	0.01	8200	3110	6620	20	0.01	LOR raised for Total Cyanide and WAD Cyanide due to sample matrix
Quarterly																					
Quarterly																					
Quarterly																					

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	27/01/2017	06/02/2017	21/02/2017	7.51	31630	16.655	Labatory EC results = 38400 µS/cm
Monthly	22/02/2017	22/02/2017	20/03/2017	6.84	2560	16.915	Potential transcription error
Monthly							
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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)	Lead (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Hardness (mg/L)	Total Suspended Solids (mg/L)	Zinc (mg/L)	Comments
Quarterly	27/01/2017	06/02/2017	21/02/2017	241	<0.0005	0.0011	<0.0002	81	684	0.005	<0.004	<0.0002	52	9	0.006	606	586	416	293	0.034	
Quarterly																					
Quarterly																					
Quarterly																					

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	27/01/2017	06/02/2017	21/02/2017	6.85	48510	15.960	
Monthly	22/02/2017	22/02/2017	20/03/2017	6.51	38300	16.150	
Monthly							
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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)	Lead (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Hardness (mg/L)	Total Suspended Solids (mg/L)	Zinc (mg/L)	Comments
Quarterly	27/01/2017	06/02/2017	21/02/2017	519	<0.0005	<0.0005	<0.0002	791	16300	<0.001	<0.004	0.0002	1580	47	0.01	9270	3160	8480	26	0.022	
Quarterly																					
Quarterly																					
Quarterly																					

Groundwater

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Monitoring Point: 30 <P417A>
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	12/01/2017	23/01/2017	21/02/2017	6.53	46090	12.54	
Monthly	08/02/2017	08/02/2017	20/03/2017	6.59	46100	12.57	
Monthly							
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Monthly							

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)	Lead (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Hardness (mg/L)	Total Suspended Solids (mg/L)	Zinc (mg/L)	Comments
Quarterly	12/01/2017	23/01/2017	21/02/2017	519	<0.0005	<0.0005	0.0007	657	14900	<0.001	<0.004	<0.0002	1430	32	0.004	8410	2920	7530	<1	<0.005	
Quarterly																					
Quarterly																					
Quarterly																					

Monitoring Point: 31 <P417B>
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	18/01/2017	27/01/2017	21/02/2017	6.44	41700	12.456	
Monthly	08/02/2017	08/02/2017	20/03/2017	6.76	41690	12.520	
Monthly							
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Monthly							

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)	Lead (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Hardness (mg/L)	Total Suspended Solids (mg/L)	Zinc (mg/L)	Comments
Quarterly	18/01/2017	27/01/2017	21/02/2017	221	<0.0005	<0.0005	<0.0002	595	14600	<0.001	<0.020	<0.0002	1230	27	0.01	8280	2680	6550	7	0.069	LOR raised for Total Cyanide and WAD Cyanide due to sample matrix
Quarterly																					
Quarterly																					
Quarterly																					

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	12/01/2017	23/01/2017	21/02/2017	6.52	48090	9.950	
Monthly	06/02/2017	06/02/2017	20/03/2017	6.57	47870	9.955	
Monthly							
Monthly							
Monthly							
Monthly							
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Monthly							

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)	Lead (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Hardness (mg/L)	Total Suspended Solids (mg/L)	Zinc (mg/L)	Comments
Quarterly	12/01/2017	23/01/2017	21/02/2017	646	<0.0005	<0.0005	<0.0002	519	14700	0.002	<0.004	<0.0002	1350	23	0.003	9720	4340	6860	<1	0.071	
Quarterly																					
Quarterly																					
Quarterly																					

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	12/01/2017	23/01/2017	21/02/2017	6.46	43870	9.930	
Monthly	06/02/2017	06/02/2017	20/03/2017	6.56	43710	9.935	
Monthly							
Monthly							
Monthly							
Monthly							
Monthly							
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Monthly							
Monthly							

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)	Lead (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Hardness (mg/L)	Total Suspended Solids (mg/L)	Zinc (mg/L)	Comments
Quarterly	12/01/2017	23/01/2017	21/02/2017	617	<0.0005	<0.0005	<0.0002	329	13400	0.018	<0.004	<0.0002	1100	10	0.003	9120	3930	5350	<1	0.076	
Quarterly																					
Quarterly																					
Quarterly																					

Groundwater

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Monitoring Point: 34 <TSFNA>
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	12/01/2017	23/01/2017	21/02/2017	6.60	49540	12.490	
Monthly	22/02/2017	22/02/2017	20/03/2017	6.56	48910	12.530	
Monthly							
Monthly							
Monthly							
Monthly							
Monthly							
Monthly							
Monthly							
Monthly							
Monthly							
Monthly							
Monthly							

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)	Lead (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Hardness (mg/L)	Total Suspended Solids (mg/L)	Zinc (mg/L)	Comments
Quarterly	12/01/2017	23/01/2017	21/02/2017	578	<0.0005	0.0015	<0.0002	647	16000	<0.001	<0.004	<0.0002	1460	23	<0.002	9770	4220	7630	<1	0.06	
Quarterly																					
Quarterly																					
Quarterly																					

Monitoring Point: 34 <TSFNB>
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	18/01/2017	27/01/2017	21/02/2017	6.36	46890	12.725	
Monthly	22/02/2017	22/02/2017	20/03/2017	6.50	46830	12.765	
Monthly							
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Monthly							
Monthly							
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Monthly							
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Monthly							
Monthly							

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)	Lead (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Hardness (mg/L)	Total Suspended Solids (mg/L)	Zinc (mg/L)	Comments
Quarterly																					Never sent for lab testing?
Quarterly																					
Quarterly																					
Quarterly																					

Monitoring Point: 34 <TSFNC>
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	12/01/2017	23/01/2017	21/02/2017	6.60	42220	12.915	
Monthly	22/02/2017	22/02/2017	20/03/2017	6.12	42900	12.998	
Monthly							
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Monthly							

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)	Lead (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Hardness (mg/L)	Total Suspended Solids (mg/L)	Zinc (mg/L)	Comments
Quarterly	12/01/2017	23/01/2017	21/02/2017	140	<0.0005	<0.0005	0.0005	453	12900	0.004	<0.004	<0.0002	1180	42	0.002	7600	3420	5990	16	0.14	
Quarterly																					
Quarterly																					
Quarterly																					

Monitoring Point: 36 <PDB1A>
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	24/01/2017	06/02/2017	21/02/2017	6.39	54250	14.975	
Monthly	14/02/2017	14/02/2017	20/03/2017	6.51	54320	15.150	
Monthly							
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Monthly							
Monthly							
Monthly							

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)	Lead (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Hardness (mg/L)	Total Suspended Solids (mg/L)	Zinc (mg/L)	Comments
Quarterly	24/01/2017	06/02/2017	21/02/2017	<0.0005	<0.0005	0.0013	976	18700	<0.001	<0.0002	1840	30	0.002	10400	3590	10000	2	0.061	
Quarterly																			
Quarterly																			
Quarterly																			

Groundwater

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Address: PO Box 210 West Wyalong NSW 2671

Monitoring Point: 36 <PDB1B>
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	24/01/2017	06/02/2017	21/02/2017	6.39	54250	4.745	
Monthly	14/02/2017	14/02/2017	20/03/2017	6.32	50880	4.850	
Monthly							
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Monthly							

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)	Lead (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Hardness (mg/L)	Total Suspended Solids (mg/L)	Zinc (mg/L)	Comments
Quarterly	24/01/2017	06/02/2017	21/02/2017	<0.0005	0.0008	<0.0002	871	17200	<0.001	<0.0002	1790	22	<0.002	9650	3390	10000	5	0.072	
Quarterly																			
Quarterly																			
Quarterly																			

Monitoring Point: 38 <PDB3A>
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	30/01/2017	06/02/2017	21/02/2017	6.45	39510	82.200	Labatory EC results = 51800
Monthly	14/02/2017	14/02/2017	20/03/2017	6.49	42580	82.245	
Monthly							
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Monthly							
Monthly							

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)	Lead (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Hardness (mg/L)	Total Suspended Solids (mg/L)	Zinc (mg/L)	Comments
Quarterly	30/01/2017	06/02/2017	21/02/2017	<0.0005	0.0005	0.0007	1140	17700	0.004	0.0009	2070	48	0.014	9000	5210	11400	<1	0.015	
Quarterly																			
Quarterly																			
Quarterly																			

Monitoring Point: 38 <PDB3B>
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	30/01/2017	06/02/2017	21/02/2017	6.06	51990	21.510	
Monthly	14/02/2017	14/02/2017	20/03/2017	6.29	52350	21.565	
Monthly							
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Monthly							

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)	Lead (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Hardness (mg/L)	Total Suspended Solids (mg/L)	Zinc (mg/L)	Comments
Quarterly	30/01/2017	06/02/2017	21/02/2017	0.0017	0.0018	0.0056	1270	18700	0.016	0.017	2040	55	0.005	10200	3260	11600	26	0.992	Not sure why these metals are elevated.
Quarterly																			
Quarterly																			
Quarterly																			

Monitoring Point: 40 <PDB5A>
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	26/01/2017	06/02/2017	21/02/2017	6.32	51830	29.546	
Monthly	15/02/2017	15/02/2017	20/03/2017	6.16	47860	29.695	
Monthly							
Monthly							
Monthly							
Monthly							
Monthly							
Monthly							
Monthly							
Monthly							
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Monthly							
Monthly							

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)	Lead (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Hardness (mg/L)	Total Suspended Solids (mg/L)	Zinc (mg/L)	Comments
Quarterly	26/01/2017	06/02/2017	21/02/2017	<0.0005	0.0043	0.0044	817	18200	<0.001	<0.0002	1870	42	0.002	9450	2770	9740	<1	0.102	
Quarterly																			
Quarterly																			
Quarterly																			

Groundwater

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Monitoring Point: 40 <PDB5B>
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	26/01/2017	06/02/2017	21/02/2017	5.93	50540	12.304	
Monthly	15/02/2017	15/02/2017	20/03/2017	6.18	50520	12.415	
Monthly							
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Monthly							
Monthly							

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)	Lead (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Hardness (mg/L)	Total Suspended Solids (mg/L)	Zinc (mg/L)	Comments
Quarterly	26/01/2017	06/02/2017	21/02/2017	<0.0005	0.0014	0.0012	862	17600	<0.001	<0.0002	1860	46	<0.002	9390	2850	9810	2	0.066	
Quarterly																			
Quarterly																			
Quarterly																			

Monitoring Point: 44 <MON01A>
Groundwater quality monitoring, Groundwater monitoring bore located to the east of the northern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	30/01/2017	06/02/2017	21/02/2017	6.52	47600	11.170	
Monthly	06/02/2017	06/02/2017	20/03/2017	6.54	47760	11.175	
Monthly							
Monthly							
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Monthly							

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Hardness (mg/L)	Total Suspended Solids (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Copper (mg/L)	Lead (mg/L)	Selenium (mg/L)	Zinc (mg/L)	WAD Cyanide (mg/L)	Comments
Quarterly	30/01/2017	06/02/2017	21/02/2017	353	513	15300	1380	24	9580	3940	6960	2	<0.0005	<0.0005	0.0009	0.001	<0.0002	<0.002	<0.005	<0.004	
Quarterly																					
Quarterly																					
Quarterly																					

Monitoring Point: 44 <MON01B>
Groundwater quality monitoring, Groundwater monitoring bore located to the east of the northern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	18/01/2017	27/01/2017	21/02/2017	6.21	33500	13.850	Labatory EC results = 44200 µS/cm
Monthly	10/02/2017	10/02/2017	20/03/2017	5.09	45780	13.375	
Monthly							
Monthly							
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Monthly							

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)	Lead (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Hardness (mg/L)	Total Suspended Solids (mg/L)	Zinc (mg/L)	Comments
Quarterly	18/01/2017	27/01/2017	21/02/2017	28	<0.0005	0.0042	0.0004	490	15200	0.005	<0.020	0.0154	1210	50	0.007	9460	4050	6210	10	0.128	LOR raised for Total Cyanide and WAD Cyanide due to sample matrix
Quarterly																					
Quarterly																					
Quarterly																					

Monitoring Point: 45 <MON02A>
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	31/01/2017	08/02/2017	21/02/2017	6.77	41540	9.755	
Monthly	14/02/2017	14/02/2017	20/03/2017	6.05	41600	9.805	
Monthly							
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Monthly							

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)	Lead (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Hardness (mg/L)	Total Suspended Solids (mg/L)	Zinc (mg/L)	Comments
Quarterly	31/01/2017	08/02/2017	21/02/2017	740	<0.0005	<0.0005	0.0002	535	13100	0.002	<0.004	<0.0002	1330	49	0.014	9060	2760	6810	<1	<0.005	
Quarterly																					
Quarterly																					
Quarterly																					

Groundwater

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Address: PO Box 210 West Wyalong NSW 2671

Monitoring Point: 45 <MON02B>
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	31/01/2017	08/02/2017	21/02/2017	6.72	40590	9.255	
Monthly	15/02/2017	15/02/2017	20/03/2017	6.77	40530	9.265	
Monthly							
Monthly							
Monthly							
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Monthly							
Monthly							

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)	Lead (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Hardness (mg/L)	Total Suspended Solids (mg/L)	Zinc (mg/L)	Comments
Quarterly	31/01/2017	08/02/2017	21/02/2017	886	<0.0005	<0.0005	<0.0002	474	12700	0.01	<0.004	<0.0002	1480	69	0.018	8670	2720	7280	48	<0.005	
Quarterly																					
Quarterly																					
Quarterly																					

Waste Rock Leachate

EPL No: 11912 http://www.environment.nsw.gov.au/prpoeoapp/
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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)	SWL (m)	Comments
Monthly	04/01/2017	04/01/2017	21/02/2017	-	-	-	No water present in external toe drain
Monthly	08/02/2017	14/02/2017	15/03/2017	-	-	-	No water present in external toe drain
Monthly	07/03/2017	07/03/2017	20/03/2017	-	-	-	No water present in external toe drain
Monthly							
Monthly							
Monthly							
Monthly							
Monthly							
Monthly							
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Monthly							
Monthly							
Monthly							

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)	Lead (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulfate (mg/L)	Total Hardness (mg/L)	Total Suspended Solids (mg/L)	Zinc (mg/L)	Comments
Quarterly	04/01/2017	04/01/2017	21/02/2017	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No water present in external toe drain
Quarterly																				
Quarterly																				
Quarterly																				

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)	SWL (m)	Comments
Monthly	04/01/2017	04/01/2017	21/02/2017	7.61	12230	-	Insufficient water available to measure SWL
Monthly	08/02/2017	14/02/2017	15/03/2017	7.63	12740	-	Insufficient water available to measure SWL
Monthly	07/03/2017	07/03/2017	20/03/2017	7.56	12740	-	Insufficient water available to measure SWL
Monthly							
Monthly							
Monthly							
Monthly							
Monthly							
Monthly							
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Monthly							

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)	Lead (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulfate (mg/L)	Total Hardness (mg/L)	Total Suspended Solids (mg/L)	Zinc (mg/L)	Comments
Quarterly	04/01/2017	11/01/2017	21/02/2017	215	<0.0005	<0.0005	0.0051	496	3310	<0.001	<0.0002	370	22	0.004	1800	1870	2760	3	0.157	
Quarterly																				
Quarterly																				
Quarterly																				

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)	SWL (m)	Comments
Monthly	04/01/2017	04/01/2017	21/02/2017	-	-	-	No water present in external toe drain
Monthly	08/02/2017	14/02/2017	15/03/2017	-	-	-	No water present in external toe drain
Monthly	07/03/2017	07/03/2017	20/03/2017	-	-	-	No water present in external toe drain
Monthly							
Monthly							
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Monthly							
Monthly							

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)	Lead (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulfate (mg/L)	Total Hardness (mg/L)	Total Suspended Solids (mg/L)	Zinc (mg/L)	Comments
Quarterly	04/01/2017	04/01/2017	21/02/2017	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No water present in external toe drain
Quarterly																				
Quarterly																				
Quarterly																				

Ambient Noise

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Address: PO Box 210 West Wyalong NSW 2671

Q1 Noise Monitoring - January 2016

Daytime Mine Operating Intrusive Noise Levels (dBA re 20 µPa)

Location	Date Sampled	Date Obtained	Date Published	Mine Contributed $LA_{eq(15minute)}$ - dBA		Noise Criteria $LA_{eq(15minute)}$ - dBA	Comments
				Survey 1	Survey 2		
N01	17/01/2017	17/03/2017	20/03/2017	26	26	-	
N05	16/01/2017	17/03/2017	20/03/2017	<20	<20	36	
N09	17/01/2017	17/03/2017	20/03/2017	<20	<20	35	
N10	17/01/2017	17/03/2017	20/03/2017	<20	<20	36	
N11	17/01/2017	17/03/2017	20/03/2017	<20	<20	37	
N12	17/01/2017	17/03/2017	20/03/2017	<20	<20	36	
N13	16/01/2017	17/03/2017	20/03/2017	<20	<20	36	
N14	17/01/2017	17/03/2017	20/03/2017	<20	<20	35	

Evening Mine Operating Intrusive Noise Levels (dBA re 20 µPa)

Location	Date Sampled	Date Obtained	Date Published	Mine Contributed $LA_{eq(15minute)}$ - dBA		Noise Criteria $LA_{eq(15minute)}$ - dBA	Comments
				Survey 1	Survey 2		
N01	17/01/2017	17/03/2017	20/03/2017	22	25	-	
N05	16/01/2017	17/03/2017	20/03/2017	<20	<20	36	
N09	17/01/2017	17/03/2017	20/03/2017	<20	<20	35	
N10	17/01/2017	17/03/2017	20/03/2017	<20	<20	36	
N11	17/01/2017	17/03/2017	20/03/2017	<20	<20	37	
N12	17/01/2017	17/03/2017	20/03/2017	<20	<20	36	
N13	16/01/2017	17/03/2017	20/03/2017	<20	<20	36	
N14	17/01/2017	17/03/2017	20/03/2017	<20	<20	35	

Night time Mine Operating Intrusive Noise Levels (dBA re 20 µPa)

Location	Date Sampled	Date Obtained	Date Published	Mine Contributed $LA_{eq(15minute)}$ - dBA		Noise Criteria $LA_{eq(15minute)}$ - dBA	Comments
				Survey 1	Survey 2		
N01	17/01/207	17/03/2017	20/03/2017	31	30	-	
N05	16/01/2017	17/03/2017	20/03/2017	<20	<20	36	
N09	18/01/2017	17/03/2017	20/03/2017	<20	<20	35	
N10	18/01/2017	17/03/2017	20/03/2017	<20	<20	36	
N11	17/01/207	17/03/2017	20/03/2017	<20	<20	37	
N12	17/01/207	17/03/2017	20/03/2017	<20	<20	36	
N13	16/01/2017	17/03/2017	20/03/2017	<20	<20	36	
N14	18/01/2017	17/03/2017	20/03/2017	<20	<20	35	

n/a - Mine noise emission not discernible

Q2 Noise Monitoring

Daytime Mine Operating Intrusive Noise Levels (dBA re 20 µPa)

Location	Date Sampled	Date Obtained	Date Published	Mine Contributed $LA_{eq(15minute)}$ - dBA		Noise Criteria $LA_{eq(15minute)}$ - dBA	Comments
				Survey 1	Survey 2		
N01						-	
N05						36	
N09						35	
N10						36	
N11						37	
N12						36	
N13						36	
N14						35	

Evening Mine Operating Intrusive Noise Levels (dBA re 20 µPa)

Location	Date Sampled	Date Obtained	Date Published	Mine Contributed $LA_{eq(15minute)}$ - dBA		Noise Criteria $LA_{eq(15minute)}$ - dBA	Comments
				Survey 1	Survey 2		
N01						-	
N05						36	
N09						35	
N10						36	
N11						37	
N12						36	
N13						36	
N14						35	

Night time Mine Operating Intrusive Noise Levels (dBA re 20 µPa)

Location	Date Sampled	Date Obtained	Date Published	Mine Contributed $LA_{eq(15minute)}$ - dBA		Noise Criteria $LA_{eq(15minute)}$ - dBA	Comments
				Survey 1	Survey 2		
N01						-	
N05						36	
N09						35	
N10						36	
N11						37	
N12						36	
N13						36	
N14						35	

N/A - Mine noise emission not discernible

Q3 Noise Monitoring

Daytime Mine Operating Intrusive Noise Levels (dBA re 20 µPa)

Location	Date Sampled	Date Obtained	Date Published	Mine Contributed $LA_{eq(15minute)}$ - dBA		Noise Criteria $LA_{eq(15minute)}$ - dBA	Comments
				Survey 1	Survey 2		
N01						-	
N05						36	
N09						35	
N10						36	
N11						37	
N12						36	
N13						36	
N14						35	

Evening Mine Operating Intrusive Noise Levels (dBA re 20 µPa)

Location	Date Sampled	Date Obtained	Date Published	Mine Contributed $LA_{eq(15minute)}$ - dBA		Noise Criteria $LA_{eq(15minute)}$ - dBA	Comments
				Survey 1	Survey 2		
N01						-	
N05						36	
N09						35	
N10						36	
N11						37	
N12						36	
N13						36	
N14						35	

Night time Mine Operating Intrusive Noise Levels (dBA re 20 µPa)

Location	Date Sampled	Date Obtained	Date Published	Mine Contributed $LA_{eq(15minute)}$ - dBA		Noise Criteria $LA_{eq(15minute)}$ - dBA	Comments
				Survey 1	Survey 2		
						-	
N05						36	
N09						35	
N10						36	
N11						37	
N12						36	
N13						36	
N14						35	

N/A - Mine noise emission not discernible

Q4 Noise Monitoring

Daytime Mine Operating Intrusive Noise Levels (dBA re 20 µPa)

Location	Date Sampled	Date Obtained	Date Published	Mine Contributed $LA_{eq(15minute)}$ - dBA		Noise Criteria $LA_{eq(15minute)}$ - dBA	Comments
				Survey 1	Survey 2		
N01						-	
N05						36	
N09						35	
N10						36	
N11						37	
N12						36	
N13						36	
N14						35	

Evening Mine Operating Intrusive Noise Levels (dBA re 20 µPa)

Location	Date Sampled	Date Obtained	Date Published	Mine Contributed $LA_{eq(15minute)}$ - dBA		Noise Criteria $LA_{eq(15minute)}$ - dBA	Comments
				Survey 1	Survey 2		
N01						-	
N05						36	
N09						35	
N10						36	
N11						37	
N12						36	
N13						36	
N14						35	

Night time Mine Operating Intrusive Noise Levels (dBA re 20 µPa)

Location	Date Sampled	Date Obtained	Date Published	Mine Contributed $LA_{eq(15minute)}$ - dBA		Noise Criteria $LA_{eq(15minute)}$ - dBA	Comments
				Survey 1	Survey 2		
N01						-	
N05						36	
N09						35	
N10						36	
N11						37	
N12						36	
N13						36	
N14						35	

N/A - Mine noise emission not discernible

Blasting & Ground Vibration

EPL No: 11912 http://www.environment.nsw.gov.au/prpoeoap
Licensee: Evolution Mining (Cowal) Pty Limited
Address: PO Box 210 West Wyalong NSW 2671

Monitoring Point: BM01
Blast monitoring, Airblast overpressure and ground vibration peak particle velocity recorded at private residence to the south-east of ML1535 boundary

					Compliance Limits		BM01 at Blast Time		
Blast Number	Day/Date	Time	Date Obtained	Date Published	Ground Vibration (mm/s)	Airblast Overpressure (dB(L))	Ground Vibration (mm/s)	Airblast Overpressure (dB(L))	Comments
JANUARY									
903-17	Wednesday, 4 January 2017	12:35:35	08/02/2017	21/02/2017	5	115	0.10	88.0	
903-18	Monday, 9 January 2017	12:25:12	08/02/2017	21/02/2017	5	115	0.11	94.0	
912-36	Thursday, 12 January 2017	12:38:43	08/02/2017	21/02/2017	5	115	0.10	88.0	
903-20	Saturday, 14 January 2017	12:28:16	08/02/2017	21/02/2017	5	115	0.10	94.0	
921-40	Monday, 16 January 2017	12:29:23	08/02/2017	21/02/2017	5	115	0.10	88.0	
903-19	Friday, 20 January 2017	12:32:25	08/02/2017	21/02/2017	5	115	0.09	105.5	
912-37	Sunday, 22 January 2017	12:28:36	08/02/2017	21/02/2017	1	95	0.10	88.0	
912-38	Tuesday, 24 January 2017	12:39:31	08/02/2017	21/02/2017	5	115	0.10	91.5	
903-21	Wednesday, 25 January 2017	12:25:39	08/02/2017	21/02/2017	5	115	0.11	97.5	
912-39	Thursday, 26 January 2017	12:36:13	08/02/2017	21/02/2017	1	95	0.13	91.5	
903-524	Friday, 27 January 2017	12:30:05	08/02/2017	21/02/2017	5	115	0.10	97.5	
930-Wedge	Saturday, 28 January 2017	15:10:01	08/02/2017	21/02/2017	5	115	0.12	95.9	
903-24	Sunday, 29 January 2017	12:27:03	08/02/2017	21/02/2017	1	95	0.12	91.5	
FEBRUARY									
921-39	Thursday, 2 February 2017	12:28:55	06/03/2017	20/03/2017	5	115	0.09	88.0	
903-25	Monday, 6 February 2017	12:39:33	06/03/2017	20/03/2017	5	115	0.13	91.5	
903-520	Tuesday, 7 February 2017	13:05:31	06/03/2017	20/03/2017	5	115	0.10	95.9	
903-521	Thursday, 9 February 2017	12:31:32	06/03/2017	20/03/2017	5	115	0.11	91.5	
912-27	Sunday, 12 February 2017	12:32:19	06/03/2017	20/03/2017	1	95	0.12	**97.5**	Local environmental factors
921-Toe-2	Sunday, 12 February 2017	12:32:19	06/03/2017	20/03/2017	1	95	0.12	**97.5**	Local environmental factors
912-Berm-Toe	Wednesday, 15 February 2017	12:37:49	06/03/2017	20/03/2017	5	115	0.11	88.0	
903-522	Wednesday, 15 February 2017	12:39:06	06/03/2017	20/03/2017	5	115	0.12	100.0	
912-41	Tuesday, 21 February 2017	12:38:42	06/03/2017	20/03/2017	5	115	0.09	88.0	
912-28	Tuesday, 21 February 2017	12:41:23	06/03/2017	20/03/2017	5	115	0.09	88.0	
912-29	Thursday, 23 February 2017	12:37:57	06/03/2017	20/03/2017	5	115	0.12	95.9	
912-30	Sunday, 26 February 2017	12:30:03	06/03/2017	20/03/2017	1	95	0.10	94.0	
903-26	Tuesday, 28 February 2017	12:31:55	06/03/2017	20/03/2017	5	115	0.13	88.0	

Monitoring Point: BM02
Blast monitoring, Airblast overpressure and ground vibration peak particle velocity recorded to the south of ML1535 boundary

					Compliance Limits		BM02 at Blast Time		
Blast Number	Day/Date	Time	Date Obtained	Date Published	Ground Vibration (mm/s)	Airblast Overpressure (dB(L))	Ground Vibration (mm/s)	Airblast Overpressure (dB(L))	Comments
JANUARY									
903-17	Wednesday, 4 January 2017	12:35:35	08/02/2017	21/02/2017	5	115	0.10	91.5	
903-18	Monday, 9 January 2017	12:25:12	08/02/2017	21/02/2017	5	115	0.15	97.5	
912-36	Thursday, 12 January 2017	12:38:43	08/02/2017	21/02/2017	5	115	0.11	88.0	
903-20	Saturday, 14 January 2017	12:28:16	08/02/2017	21/02/2017	5	115	0.11	97.5	
921-40	Monday, 16 January 2017	12:29:23	08/02/2017	21/02/2017	5	115	0.11	97.5	
903-19	Friday, 20 January 2017	12:32:25	08/02/2017	21/02/2017	5	115	0.12	112.6	
912-37	Sunday, 22 January 2017	12:28:36	08/02/2017	21/02/2017	1	95	0.11	94.0	
912-38	Tuesday, 24 January 2017	12:39:31	08/02/2017	21/02/2017	5	115	0.11	94.0	
903-21	Wednesday, 25 January 2017	12:25:39	08/02/2017	21/02/2017	5	115	0.14	88.0	
912-39	Thursday, 26 January 2017	12:36:13	08/02/2017	21/02/2017	1	95	0.12	94.0	
903-524	Friday, 27 January 2017	12:30:05	08/02/2017	21/02/2017	5	115	0.13	97.5	
930-Wedge	Saturday, 28 January 2017	15:10:01	08/02/2017	21/02/2017	5	115	0.11	95.9	
903-24	Sunday, 29 January 2017	12:27:03	08/02/2017	21/02/2017	1	95	0.12	94.0	
FEBRUARY									
921-39	Thursday, 2 February 2017	12:28:55	06/03/2017	20/03/2017	5	115	0.12	88.0	
903-25	Monday, 6 February 2017	12:39:33	06/03/2017	20/03/2017	5	115	0.12	97.5	
903-520	Tuesday, 7 February 2017	13:05:31	06/03/2017	20/03/2017	5	115	0.11	104.2	
903-521	Thursday, 9 February 2017	12:31:32	06/03/2017	20/03/2017	5	115	0.19	105.5	
912-27	Sunday, 12 February 2017	12:32:19	06/03/2017	20/03/2017	1	95	0.13	**106.0**	Local environmental factors
921-Toe-2	Sunday, 12 February 2017	12:32:19	06/03/2017	20/03/2017	1	95	0.13	**106.0**	Local environmental factors
912-Berm-Toe	Wednesday, 15 February 2017	12:37:49	06/03/2017	20/03/2017	5	115	0.10	91.5	
903-522	Wednesday, 15 February 2017	12:39:06	06/03/2017	20/03/2017	5	115	0.15	91.5	
912-41	Tuesday, 21 February 2017	12:38:42	06/03/2017	20/03/2017	5	115	0.09	88.0	
912-28	Tuesday, 21 February 2017	12:41:23	06/03/2017	20/03/2017	5	115	0.12	88.0	
912-29	Thursday, 23 February 2017	12:37:57	06/03/2017	20/03/2017	5	115	0.13	98.8	
912-30	Sunday, 26 February 2017	12:30:03	06/03/2017	20/03/2017	1	95	0.09	**103.5**	Local environmental factors
903-26	Tuesday, 28 February 2017	12:31:55	06/03/2017	20/03/2017	5	115	0.11	91.5	

Monitoring Point: BM03
Blast monitoring, Airblast overpressure and ground vibration peak particle velocity recorded at private residence to the north of ML1535 boundary

					Compliance Limits		BM03 at Blast Time		
Blast Number	Day/Date	Time	Date Obtained	Date Published	Ground Vibration (mm/s)	Airblast Overpressure (dB(L))	Ground Vibration (mm/s)	Airblast Overpressure (dB(L))	Comments
JANUARY									
903-17	Wednesday, 4 January 2017	12:35:35	08/02/2017	21/02/2017	5	115	0.17	81.9	
903-18	Monday, 9 January 2017	12:25:12	08/02/2017	21/02/2017	5	115	0.13	88.0	
912-36	Thursday, 12 January 2017	12:38:43	08/02/2017	21/02/2017	5	115	0.10	88.0	
903-20	Saturday, 14 January 2017	12:28:16	08/02/2017	21/02/2017	5	115	-	-	Unit offline
921-40	Monday, 16 January 2017	12:29:23	08/02/2017	21/02/2017	5	115	-	-	Unit offline
903-19	Friday, 20 January 2017	12:32:25	08/02/2017	21/02/2017	5	115	0.11	97.5	
912-37	Sunday, 22 January 2017	12:28:36	08/02/2017	21/02/2017	1	95	0.10	88.0	
912-38	Tuesday, 24 January 2017	12:39:31	08/02/2017	21/02/2017	5	115	0.10	94.0	
903-21	Wednesday, 25 January 2017	12:25:39	08/02/2017	21/02/2017	5	115	0.15	88.0	
912-39	Thursday, 26 January 2017	12:36:13	08/02/2017	21/02/2017	1	95	0.10	88.0	
903-524	Friday, 27 January 2017	12:30:05	08/02/2017	21/02/2017	5	115	0.11	88.0	
930-Wedge	Saturday, 28 January 2017	15:10:01	08/02/2017	21/02/2017	5	115	0.10	88.0	
903-24	Sunday, 29 January 2017	12:27:03	08/02/2017	21/02/2017	1	95	0.15	88.0	
FEBRUARY									
921-39	Thursday, 2 February 2017	12:28:55	06/03/2017	20/03/2017	5	115	0.10	91.5	
903-25	Monday, 6 February 2017	12:39:33	06/03/2017	20/03/2017	5	115	0.15	91.5	
903-520	Tuesday, 7 February 2017	13:05:31	06/03/2017	20/03/2017	5	115	0.09	100.0	
903-521	Thursday, 9 February 2017	12:31:32	06/03/2017	20/03/2017	5	115	0.14	88.0	
912-27	Sunday, 12 February 2017	12:32:19	06/03/2017	20/03/2017	1	95	0.11	**109.2**	Local environmental factors
921-Toe-2	Sunday, 12 February 2017	12:32:19	06/03/2017	20/03/2017	1	95	0.11	**109.2**	Local environmental factors
912-Berm-Toe	Wednesday, 15 February 2017	12:37:49	06/03/2017	20/03/2017	5	115	0.10	91.5	
903-522	Wednesday, 15 February 2017	12:39:06	06/03/2017	20/03/2017	5	115	0.18	95.9	
912-41	Tuesday, 21 February 2017	12:38:42	06/03/2017	20/03/2017	5	115	0.09	88.0	
912-28	Tuesday, 21 February 2017	12:41:23	06/03/2017	20/03/2017	5	115	0.12	88.0	
912-29	Thursday, 23 February 2017	12:37:57	06/03/2017	20/03/2017	5	115	0.11	91.5	
912-30	Sunday, 26 February 2017	12:30:03	06/03/2017	20/03/2017	1	95	0.10	91.5	
903-26	Tuesday, 28 February 2017	12:31:55	06/03/2017	20/03/2017	5	115	0.14	91.5	

Monitoring Point: BM04.1 <Bird Breeding Area>

Blast monitoring, Airblast overpressure and ground vibration peak particle velocity recorded in Lake Cowal to the north-north-east of ML1535 boundary

					Compliance Limits		BM04 at Blast Time		
Blast Number	**Day/Date**	**Time**	**Date Obtained**	**Date Published**	**Ground Vibration (mm/s)**	**Airblast Overpressure (dB(L))**	**Ground Vibration (mm/s)**	**Airblast Overpressure (dB(L))**	**Comments**
JANUARY - This monitor is not located relative to any privately owned residence.									
903-17	Wednesday, 4 January 2017	12:35:35	08/02/2017	21/02/2017	-	-	-	-	Unit offline. Inundated during significant flood event on Lake Cowal
903-18	Monday, 9 January 2017	12:25:12	08/02/2017	21/02/2017	-	-	-	-	Unit offline. Inundated during significant flood event on Lake Cowal
912-36	Thursday, 12 January 2017	12:38:43	08/02/2017	21/02/2017	-	-	-	-	Unit offline. Inundated during significant flood event on Lake Cowal
903-20	Saturday, 14 January 2017	12:28:16	08/02/2017	21/02/2017	-	-	-	-	Unit offline. Inundated during significant flood event on Lake Cowal
921-40	Monday, 16 January 2017	12:29:23	08/02/2017	21/02/2017	-	-	-	-	Unit offline. Inundated during significant flood event on Lake Cowal
903-19	Friday, 20 January 2017	12:32:25	08/02/2017	21/02/2017	-	-	-	-	Unit offline. Inundated during significant flood event on Lake Cowal
912-37	Sunday, 22 January 2017	12:28:36	08/02/2017	21/02/2017	-	-	-	-	Unit offline. Inundated during significant flood event on Lake Cowal
912-38	Tuesday, 24 January 2017	12:39:31	08/02/2017	21/02/2017	-	-	-	-	Unit offline. Inundated during significant flood event on Lake Cowal
903-21	Wednesday, 25 January 2017	12:25:39	08/02/2017	21/02/2017	-	-	-	-	Unit offline. Inundated during significant flood event on Lake Cowal
912-39	Thursday, 26 January 2017	12:36:13	08/02/2017	21/02/2017	-	-	-	-	Unit offline. Inundated during significant flood event on Lake Cowal
903-524	Friday, 27 January 2017	12:30:05	08/02/2017	21/02/2017	-	-	-	-	Unit offline. Inundated during significant flood event on Lake Cowal
930-Wedge	Saturday, 28 January 2017	15:10:01	08/02/2017	21/02/2017	-	-	-	-	Unit offline. Inundated during significant flood event on Lake Cowal
903-24	Sunday, 29 January 2017	12:27:03	08/02/2017	21/02/2017	-	-	-	-	Unit offline. Inundated during significant flood event on Lake Cowal
FEBRUARY									
921-39	Thursday, 2 February 2017	12:28:55	06/03/2017	20/03/2017	-	-	-	-	Unit offline. Inundated during significant flood event on Lake Cowal
903-25	Monday, 6 February 2017	12:39:33	06/03/2017	20/03/2017	-	-	-	-	Unit offline. Inundated during significant flood event on Lake Cowal
903-520	Tuesday, 7 February 2017	13:05:31	06/03/2017	20/03/2017	-	-	-	-	Unit offline. Inundated during significant flood event on Lake Cowal
903-521	Thursday, 9 February 2017	12:31:32	06/03/2017	20/03/2017	-	-	-	-	Unit offline. Inundated during significant flood event on Lake Cowal
912-27	Sunday, 12 February 2017	12:32:19	06/03/2017	20/03/2017	-	-	-	-	Unit offline. Inundated during significant flood event on Lake Cowal
921-Toe-2	Sunday, 12 February 2017	12:32:19	06/03/2017	20/03/2017	-	-	-	-	Unit offline. Inundated during significant flood event on Lake Cowal
912-Berm-Toe	Wednesday, 15 February 2017	12:37:49	06/03/2017	20/03/2017	-	-	-	-	Unit offline. Inundated during significant flood event on Lake Cowal
903-522	Wednesday, 15 February 2017	12:39:06	06/03/2017	20/03/2017	-	-	-	-	Unit offline. Inundated during significant flood event on Lake Cowal
912-41	Tuesday, 21 February 2017	12:38:42	06/03/2017	20/03/2017	-	-	-	-	Unit offline. Inundated during significant flood event on Lake Cowal
912-28	Tuesday, 21 February 2017	12:41:23	06/03/2017	20/03/2017	-	-	-	-	Unit offline. Inundated during significant flood event on Lake Cowal
912-29	Thursday, 23 February 2017	12:37:57	06/03/2017	20/03/2017	-	-	-	-	Unit offline. Inundated during significant flood event on Lake Cowal
912-30	Sunday, 26 February 2017	12:30:03	06/03/2017	20/03/2017	-	-	-	-	Unit offline. Inundated during significant flood event on Lake Cowal
903-26	Tuesday, 28 February 2017	12:31:55	06/03/2017	20/03/2017	-	-	-	-	Unit offline. Inundated during significant flood event on Lake Cowal

Monitoring Point: BM05 <Bird Breeding Area>

Blast monitoring, Airblast overpressure and ground vibration peak particle velocity recorded in Lake Cowal to the north-east of ML1535 boundary

					Compliance Limits		BM05 at Blast Time		
Blast Number	**Day/Date**	**Time**	**Date Obtained**	**Date Published**	**Ground Vibration (mm/s)**	**Airblast Overpressure (dB(L))**	**Ground Vibration (mm/s)**	**Airblast Overpressure (dB(L))**	**Comments**
JANUARY - This monitor is not located relative to any privately owned residence.									
903-17	Wednesday, 4 January 2017	12:35:35	08/02/2017	21/02/2017	-	-	-	-	Unit offline. Inundated during significant flood event on Lake Cowal
903-18	Monday, 9 January 2017	12:25:12	08/02/2017	21/02/2017	-	-	-	-	Unit offline. Inundated during significant flood event on Lake Cowal
912-36	Thursday, 12 January 2017	12:38:43	08/02/2017	21/02/2017	-	-	-	-	Unit offline. Inundated during significant flood event on Lake Cowal
903-20	Saturday, 14 January 2017	12:28:16	08/02/2017	21/02/2017	-	-	-	-	Unit offline. Inundated during significant flood event on Lake Cowal
921-40	Monday, 16 January 2017	12:29:23	08/02/2017	21/02/2017	-	-	-	-	Unit offline. Inundated during significant flood event on Lake Cowal
903-19	Friday, 20 January 2017	12:32:25	08/02/2017	21/02/2017	-	-	-	-	Unit offline. Inundated during significant flood event on Lake Cowal
912-37	Sunday, 22 January 2017	12:28:36	08/02/2017	21/02/2017	-	-	-	-	Unit offline. Inundated during significant flood event on Lake Cowal
912-38	Tuesday, 24 January 2017	12:39:31	08/02/2017	21/02/2017	-	-	-	-	Unit offline. Inundated during significant flood event on Lake Cowal
903-21	Wednesday, 25 January 2017	12:25:39	08/02/2017	21/02/2017	-	-	-	-	Unit offline. Inundated during significant flood event on Lake Cowal
912-39	Thursday, 26 January 2017	12:36:13	08/02/2017	21/02/2017	-	-	-	-	Unit offline. Inundated during significant flood event on Lake Cowal
903-524	Friday, 27 January 2017	12:30:05	08/02/2017	21/02/2017	-	-	-	-	Unit offline. Inundated during significant flood event on Lake Cowal
930-Wedge	Saturday, 28 January 2017	15:10:01	08/02/2017	21/02/2017	-	-	-	-	Unit offline. Inundated during significant flood event on Lake Cowal
903-24	Sunday, 29 January 2017	12:27:03	08/02/2017	21/02/2017	-	-	-	-	Unit offline. Inundated during significant flood event on Lake Cowal
FEBRUARY									
921-39	Thursday, 2 February 2017	12:28:55	06/03/2017	20/03/2017	-	-	-	-	Unit offline. Inundated during significant flood event on Lake Cowal
903-25	Monday, 6 February 2017	12:39:33	06/03/2017	20/03/2017	-	-	-	-	Unit offline. Inundated during significant flood event on Lake Cowal
903-520	Tuesday, 7 February 2017	13:05:31	06/03/2017	20/03/2017	-	-	-	-	Unit offline. Inundated during significant flood event on Lake Cowal
903-521	Thursday, 9 February 2017	12:31:32	06/03/2017	20/03/2017	-	-	-	-	Unit offline. Inundated during significant flood event on Lake Cowal
912-27	Sunday, 12 February 2017	12:32:19	06/03/2017	20/03/2017	-	-	-	-	Unit offline. Inundated during significant flood event on Lake Cowal
921-Toe-2	Sunday, 12 February 2017	12:32:19	06/03/2017	20/03/2017	-	-	-	-	Unit offline. Inundated during significant flood event on Lake Cowal
912-Berm-Toe	Wednesday, 15 February 2017	12:37:49	06/03/2017	20/03/2017	-	-	-	-	Unit offline. Inundated during significant flood event on Lake Cowal
903-522	Wednesday, 15 February 2017	12:39:06	06/03/2017	20/03/2017	-	-	-	-	Unit offline. Inundated during significant flood event on Lake Cowal
912-41	Tuesday, 21 February 2017	12:38:42	06/03/2017	20/03/2017	-	-	-	-	Unit offline. Inundated during significant flood event on Lake Cowal
912-28	Tuesday, 21 February 2017	12:41:23	06/03/2017	20/03/2017	-	-	-	-	Unit offline. Inundated during significant flood event on Lake Cowal
912-29	Thursday, 23 February 2017	12:37:57	06/03/2017	20/03/2017	-	-	-	-	Unit offline. Inundated during significant flood event on Lake Cowal
912-30	Sunday, 26 February 2017	12:30:03	06/03/2017	20/03/2017	-	-	-	-	Unit offline. Inundated during significant flood event on Lake Cowal
903-26	Tuesday, 28 February 2017	12:31:55	06/03/2017	20/03/2017	-	-	-	-	Unit offline. Inundated during significant flood event on Lake Cowal

Monitoring Point: BM08.1 <Cowal North>

Blast monitoring, Airblast overpressure and ground vibration peak particle velocity recorded at private residence to the north, north east of ML1535 boundary

Blast Number	**Day/Date**	**Time**	**Date Obtained**	**Date Published**	**Ground Vibration (mm/s)**	**Airblast Overpressure (dB(L))**	**Ground Vibration (mm/s)**	**Airblast Overpressure (dB(L))**	**Comments**
JANUARY									
903-17	Wednesday, 4 January 2017	12:35:35	08/02/2017	21/02/2017	5	115	0.06	94.0	
903-18	Monday, 9 January 2017	12:25:12	08/02/2017	21/02/2017	5	115	0.06	91.5	
912-36	Thursday, 12 January 2017	12:38:43	08/02/2017	21/02/2017	5	115	0.04	94.0	
903-20	Saturday, 14 January 2017	12:28:16	08/02/2017	21/02/2017	5	115	0.03	95.9	
921-40	Monday, 16 January 2017	12:29:23	08/02/2017	21/02/2017	5	115	0.04	91.5	
903-19	Friday, 20 January 2017	12:32:25	08/02/2017	21/02/2017	5	115	0.06	111.5	
912-37	Sunday, 22 January 2017	12:28:36	08/02/2017	21/02/2017	1	95	0.05	91.5	
912-38	Tuesday, 24 January 2017	12:39:31	08/02/2017	21/02/2017	5	115	0.03	94.0	
903-21	Wednesday, 25 January 2017	12:25:39	08/02/2017	21/02/2017	5	115	0.06	94.0	
912-39	Thursday, 26 January 2017	12:36:13	08/02/2017	21/02/2017	1	95	0.04	88.0	
903-524	Friday, 27 January 2017	12:30:05	08/02/2017	21/02/2017	5	115	0.01	91.5	
930-Wedge	Saturday, 28 January 2017	15:10:01	08/02/2017	21/02/2017	5	115	0.02	91.5	
903-24	Sunday, 29 January 2017	12:27:03	08/02/2017	21/02/2017	1	95	0.10	88.0	
FEBRUARY									
921-39	Thursday, 2 February 2017	12:28:55	06/03/2017	20/03/2017	5	115	0.05	91.5	
903-25	Monday, 6 February 2017	12:39:33	06/03/2017	20/03/2017	5	115	0.12	91.5	
903-520	Tuesday, 7 February 2017	13:05:31	06/03/2017	20/03/2017	5	115	0.05	104.2	
903-521	Thursday, 9 February 2017	12:31:32	06/03/2017	20/03/2017	5	115	0.10	94.0	
912-27	Sunday, 12 February 2017	12:32:19	06/03/2017	20/03/2017	1	95	0.06	**110.6**	Local environmental factors
921-Toe-2	Sunday, 12 February 2017	12:32:19	06/03/2017	20/03/2017	1	95	0.06	**110.6**	Local environmental factors
912-Berm-Toe	Wednesday, 15 February 2017	12:37:49	06/03/2017	20/03/2017	5	115	0.01	91.5	
903-522	Wednesday, 15 February 2017	12:39:06	06/03/2017	20/03/2017	5	115	0.17	94.0	
912-41	Tuesday, 21 February 2017	12:38:42	06/03/2017	20/03/2017	5	115	0.02	94.0	
912-28	Tuesday, 21 February 2017	12:41:23	06/03/2017	20/03/2017	5	115	0.05	88.0	
912-29	Thursday, 23 February 2017	12:37:57	06/03/2017	20/03/2017	5	115	0.06	94.0	
912-30	Sunday, 26 February 2017	12:30:03	06/03/2017	20/03/2017	1	95	0.01	91.5	
903-26	Tuesday, 28 February 2017	12:31:55	06/03/2017	20/03/2017	5	115	0.09	91.5	

Cyanide

EPL No: 11912 http://www.environment.nsw.gov.au/prpoeoapp/
Licensee: Evolution Mining (Cowal) Pty Limited
Address: PO Box 210 West Wyalong NSW 2671

Monitoring Point: 48
Water quality monitoring, automated sampler located at the processing plant

			Total Cyanide (mg/L)				
Frequency	**Month**	**No Sampled during Month**	**Minimum**	**Mean**	**Median**	**Maximum**	**Comments**
Weekly	January	5	9.2	26.7	28.5	39.2	
Weekly	February	4	9.20	14.3	11.0	26.1	
Weekly	March						
Weekly	April						
Weekly	May						
Weekly	June						
Weekly	July						
Weekly	August						
Weekly	September						
Weekly	October						
Weekly	November						
Weekly	December						

			WAD Cyanide (mg/L)		Concentration Limits		
Frequency	**Month**	**No Sampled during Month**	**Minimum**	**Maximum**	**90th Percentile**	**100th Percentile**	**Comments**
Twice daily	January	61	2.4	15.1	20ppm	30ppm	On the following dates, samples were not collected due to mill shutdown: 17/1/16 (morning)
Twice daily	February	52	0.7	11.0	20ppm	30ppm	On the following dates, samples were not collected due to mill shutdown: 12/02/17 (morning), 22/02/17 (evening) & 23/02/17 (morning and evening)
Twice daily	March				20ppm	30ppm	
Twice daily	April				20ppm	30ppm	
Twice daily	May				20ppm	30ppm	
Twice daily	June				20ppm	30ppm	
Twice daily	July				20ppm	30ppm	
Twice daily	August				20ppm	30ppm	
Twice daily	September				20ppm	30ppm	
Twice daily	October				20ppm	30ppm	
Twice daily	November				20ppm	30ppm	
Twice daily	December				20ppm	30ppm	

EPL Exceedances

EPL Correction Log

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Monitoring Point	Monitoring Point Type	Date Sampled	Date Obtained	Date Originally Published	Parameter	Original	Correction	Comments