Teralba Quarry
Environmental Monitoring Summary

January 2026

Environmental Protection Licence (EPL):	536
Licensee:	Metromix Pty Limited
Licensee Address:	PO Box 1295 Parramatta, NSW 2124
Premises:	Metromix Pty Limited Teralba Quarry Rhondda Road Teralba, NSW 2284
Licensee Website:	https://www.metromix.com.au/
Licensee Website - Monitoring Results:	https://www.metromix.com.au/resources/#quarry
EPA Public Register:	https://www.epa.nsw.gov.au/licensing-and-regulation/public-registers
Prepared by:	R. W. Corkery & Co.
Sample Period:	January 2026
Date Last Data Received	25/02/2026
Date of Report	25/02/2026

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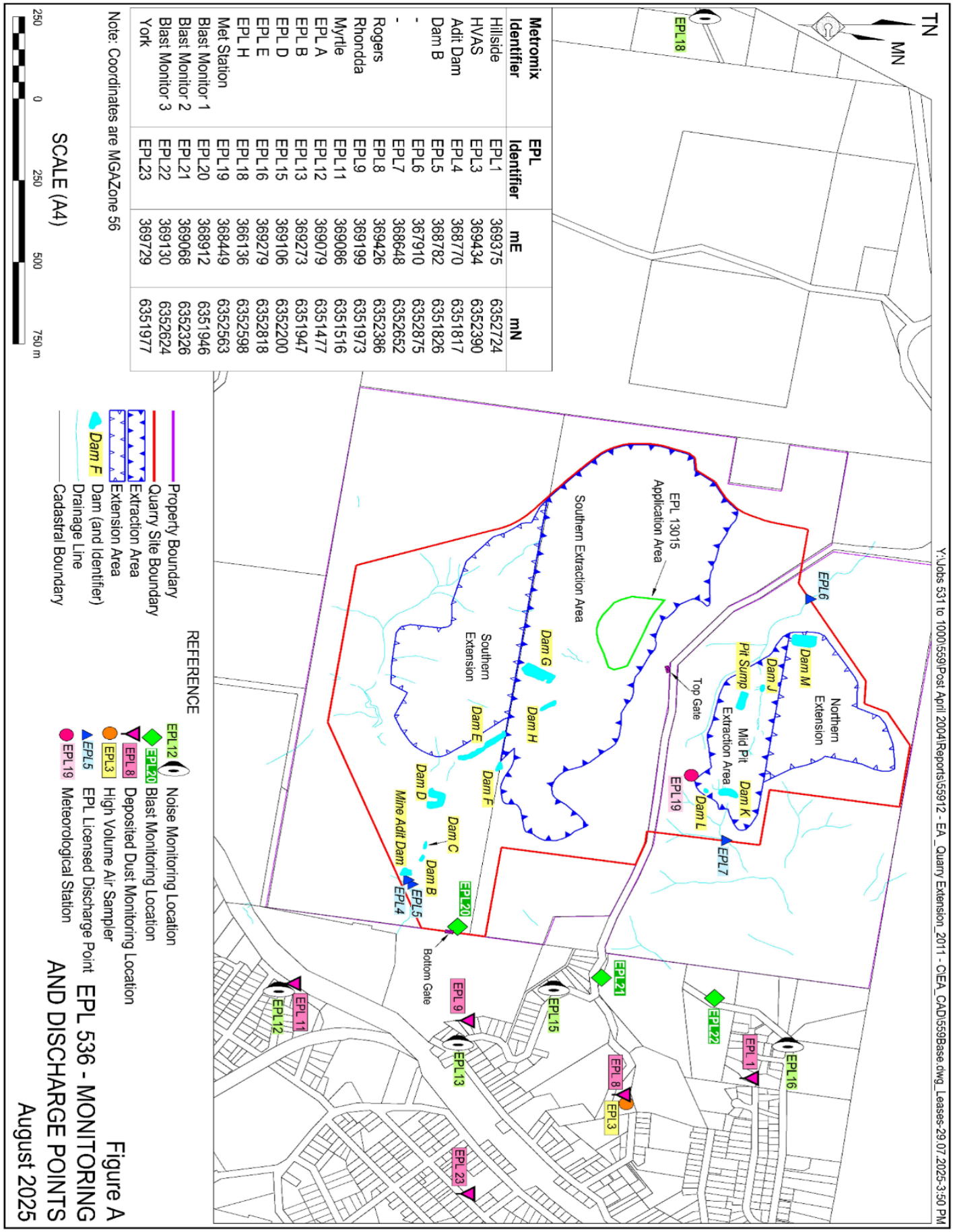


Metromix Identifier	EPL Identifier	mE	mN
Hillside	EPL1	369375	6352724
HVAS	EPL3	369434	6352390
Adit Dam	EPL4	368770	6351817
Dam B	EPL5	368782	6351826
-	EPL6	367910	6352875
-	EPL7	368648	6352652
Rogers	EPL8	369426	6352386
Rhondda	EPL9	369199	6351973
Myrtle	EPL11	369086	6351516
EPL A	EPL12	369079	6351477
EPL B	EPL13	369273	6351947
EPL D	EPL15	369106	6352200
EPL E	EPL16	369279	6352818
EPL H	EPL18	366136	6352598
Met Station	EPL19	368449	6352563
Blast Monitor 1	EPL20	368912	6351946
Blast Monitor 2	EPL21	369068	6352326
Blast Monitor 3	EPL22	369130	6352624
York	EPL23	369729	6351977

Note: Coordinates are MGAZone 56

Figure A

EPL 536 - MONITORING AND DISCHARGE POINTS

August 2025

Deposited Dust

Sample Period Start: 02/01/2026
Sample Period End: 02/02/2026
Sample Frequency: 30 ± 2 days
Sample Collected By: Metromix - AL
Date Received by Laboratory: 02/01/2026
Date Results Received by Metromix: 13/01/2026

EPA Identification No.	Location	Criteria (g/m^2/month)	Insoluble Solids (g/m^2/month)	Ash Fraction (g/m^2/month)	% Ash Fraction
1	Hillside Crescent	4.0	0.9	0.4	44
8	Rodgers Street	4.0	1.4	1.3	93
9	Rhondda Road	4.0	0.8	0.4	50
11	Myrtle Street	4.0	0.3	0.3	100
23	York Street	4.0	0.3	0.3	100

Comments

All deposited dust results were below the criteria for the sampling period.

Deposited Dust - Year to Date

	Rhondda Road			Myrtle Street			Hillside Crescent			Rodgers Street			York Street		
	Total Insoluble Solids	Ash Fraction	% Ash	Total Insoluble Solids	Ash Fraction	% Ash	Total Insoluble Solids	Ash Fraction	% Ash	Total Insoluble Solids	Ash Fraction	% Ash	Total Insoluble Solids	Ash Fraction	% Ash
Units	**g/m^2/month**	**g/m^2/month**		**g/m^2/month**	**g/m^2/month**		**g/m^2/month**	**g/m^2/month**		**g/m^2/month**	**g/m^2/month**		**g/m^2/month**	**g/m^2/month**	
EPA Approved Level	**4.0**			**4.0**			**4.0**			**4.0**			**4.0**		
January	0.8	0.4	50	0.3	0.3	100	0.9	0.4	44	1.4	1.3	93	0.3	0.3	100
February															
March															
April															
May															
June															
July															
August															
September															
October															
November															
December															
Annual Average	**0.8**	0.4	50	**0.3**	0.3	100	**0.9**	0.4	44	**1.4**	1.3	93	**0.3**	0.3	100
Annual Maximum	**0.8**	0.4	50	**0.3**	0.3	100	**0.9**	0.4	44	**1.4**	1.3	93	**0.3**	0.3	100
Annual Minimum	**0.8**	0.4	50	**0.3**	0.3	100	**0.9**	0.4	44	**1.4**	1.3	93	**0.3**	0.3	100

Particulate Matter (PM_{10})

Sample Location: EPA 3 - Rodgers Street
Sample Frequency: 6 days

Date Sample Taken (24-hr)	Collected by	Date Results Received	PM_{10} µg/m^3	24-Hour Average Criteria (µg/m^3)	Year to Date Average Criteria (µg/m^3)
01/01/2026	CBased - LK	20/01/2026	18.0	50	25/30*
07/01/2026	CBased - CO	20/01/2026	14.9	50	
13/01/2026	CBased - CO	22/01/2026	16.7	50	
19/01/2026	CBased - CN	29/01/2026	11.0	50	
25/01/2026	CBased - CO	05/02/2026	25.5	50	
31/01/2026	CBased - JN	11/02/2026	92.9	50	
Monthly Average			17.2	50	

*Project Approval (PA 10_0183) outlines the annual average PM_{10} criteria to be 30µg/m^3. However, EPL 536 Condition R4.5a) requires that the air quality monitoring data is assessed against the Air Impact Assessment Criteria outlined in EPA's *Approved Methods for the Modelling and Assessment of Air Pollutants in NSW*. The most up to date version of this guideline was published in 2022 and outlines the annual average PM_{10} criteria to be 25µg/m^3. Metromix has considered both criteria for its review of particulate matter monitoring.

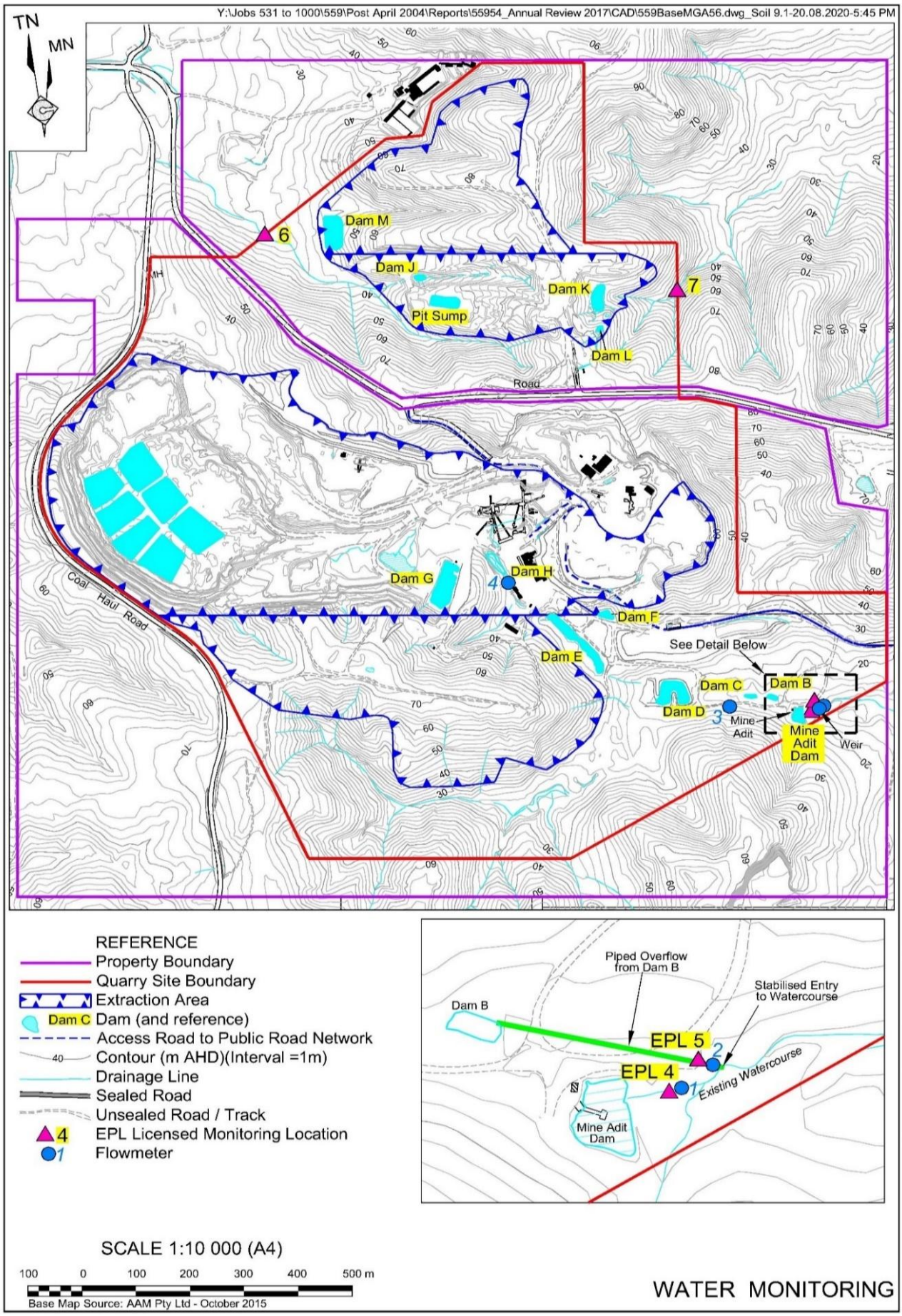
Comments

A high PM10 result (92.9µg/m3) was recorded for the sample taken on 31 January 2026. This result is considered an outlier correlated with bushfires in the Lake Macquarie area during late January and smokey conditions were observed by the sampler. As Condition 17 of PA 10_0183 enables events such as bushfires to be excluded from the PM10 criteria, the result recorded on 31 January 2026 has been excluded from calculation of the monthly and annual averages, and it is considered compliant with the approved criteria.

Particulate Matter (PM_{10}) - Year to Date

Date	PM_{10} ($\mu g/m^3$)	Monthly Average ($\mu g/m^3$)	Year to Date Average ($\mu g/m^3$)	24-Hr Criteria ($\mu g/m^3$)	Comments
01/01/2026	18.0	17.2	18.0	50	
07/01/2026	14.9		16.5	50	
13/01/2026	16.7		16.5	50	
19/01/2026	11.0		15.2	50	
25/01/2026	25.5		17.2	50	
31/01/2026	92.9		17.2	50	See comment on previous page

Minimum	11.0
Maximum	92.9
Average	17.2
Standard Deviation	31.3
24-hr Criteria	50
Number of Exceedences	1
Annual Average Criteria	25/30*
Annual Average Criteria Exceeded	No
*See explanation on previous page.	


Y:\Jobs 531 to 1000\559\Post April 2004\Reports\55954_Annual Review 2017\CAD\559BaseMGA56.dwg_Soil 9.1-20.08.2020-5:45 PM
TN
MN
Dam M
Dam J
Dam K
Pit Sump
Dam L
Road
Dam G
Dam H
Dam F
Dam E
Coal Haul Road
See Detail Below
Dam C
Dam B
Dam D
Mine Adit
Mine Adit Dam
Weir
REFERENCE
Property Boundary
Quarry Site Boundary
Extraction Area
Dam C Dam (and reference)
Access Road to Public Road Network
Contour (m AHD)(Interval =1m)
Drainage Line
Sealed Road
Unsealed Road / Track
EPL Licensed Monitoring Location
Flowmeter
Piped Overflow from Dam B
Stabilised Entry to Watercourse
EPL 5
EPL 4
Existing Watercourse
SCALE 1:10 000 (A4)
100 0 100 200 300 400 500 m
Base Map Source: AAM Pty Ltd - October 2015
WATER MONITORING

Water

Water Monitoring

EPL Point 4 - Monthly Monitoring

Date	Time	Sampled By	Date Results Received		pH	EC	TSS	Oil & Grease	Comments
				Units	pH Units	µS/cm	mg/L	mg/L	
				EPL Criterion*	6.5-8.5	NA	<50	10	
				ANZECC Water Quality Limits	6.5-8.5	125-2200	<50	-	
02/01/2026	7:00 AM	Metromix - CD	6/01/2026		7.22	2030	<5	<5	

EPL Point 5 - Monitoring within 12 hrs of Discharge commencing

Date	Time	Sampled By	Date Results Received		pH	EC	TSS	Oil & Grease	Comments
				Units	pH Units	µS/cm	mg/L	mg/L	
				EPL Criterion*	6.5-8.5	NA	<50	10	
				ANZECC Water Quality Limits	6.5-8.5	125-2200	<50	-	
Discharge began in May 2025 and has continued since; sampling was conducted within 12 hours of commencement in line with EPL 536 condition M2.4.									

EPL Point 6 - Monthly Monitoring

Date	Time	Sampled By	Date Results Received		pH	EC	TSS	Oil & Grease	Comments
				Units	pH Units	µS/cm	mg/L	mg/L	
				EPL Criterion*	6.5-8.5	NA	<50	10	
				ANZECC Water Quality Limits	6.5-8.5	125-2200	<50	-	
No discharge occurred at this location and therefore no monitoring was required.									

EPL Point 7 - Monthly Monitoring

Date	Time	Sampled By	Date Results Received		pH	EC	TSS	Oil & Grease	Comments
				Units	pH Units	µS/cm	mg/L	mg/L	
				EPL Criterion*	6.5-8.5	NA	<50	10	
				ANZECC Water Quality Limits	6.5-8.5	125-2200	<50	-	
No discharge occurred at this location and therefore no monitoring was required.									

Flow Meter Records

EPA Identified Point	Location	Description	Sample Period	Daily Average Flow ML	Monthly Total Flow ML
4	Adit Dam	Adit Dam to Creek (off site)	02/01/26-02/02/26	0.45	14.1
5	Dam B	Discharge from Dam B (from Quarry)	02/01/26-02/02/26	0.000194	0.006
4	Adit Dam	Water pumped from Adit Dam to Dam G (processing use)	02/01/26-02/02/26	3.63	112.4

Comments

All water monitoring results remained within the approved criteria levels during the monitoring period.

Water - Year to Date

EPL Point 4 : Monthly Monitoring

	pH	EC	TSS	Oil & Grease	Comments
Units	pH Units	µS/cm	mg/L	mg/L	-
EPL Criterion*	6.5-8.5	NA	<50	10	-
ANZECC Water Quality Limits	6.5-8.5	125-2200	<50	-	-
January	7.4	2030	<5	<5	-
February					-
March					-
April					-
May					-
June					-
July					-
August					-
September					-
October					-
November					-
December					-

EPL Point 5 : Monitoring During Discharge

	pH	EC	TSS	Oil & Grease	Comments
Units	pH Units	µS/cm	mg/L	mg/L	-
EPL Criterion*	6.5-8.5	NA	<50	10	-
ANZECC Water Quality Limits	6.5-8.5	125-2200	<50	-	-

Discharge began in May 2025 and has continued since; sampling was conducted within 12 hours of commencement in line with EPL 536 condition M2.4

Flow Meter Records

EPA Identifier	Location	Description	Date	Monthly
4	Adit Dam	Water pumped from Adit Dam to Dam G (processing use)	02/01/2026 - 02/02/2026	112.4

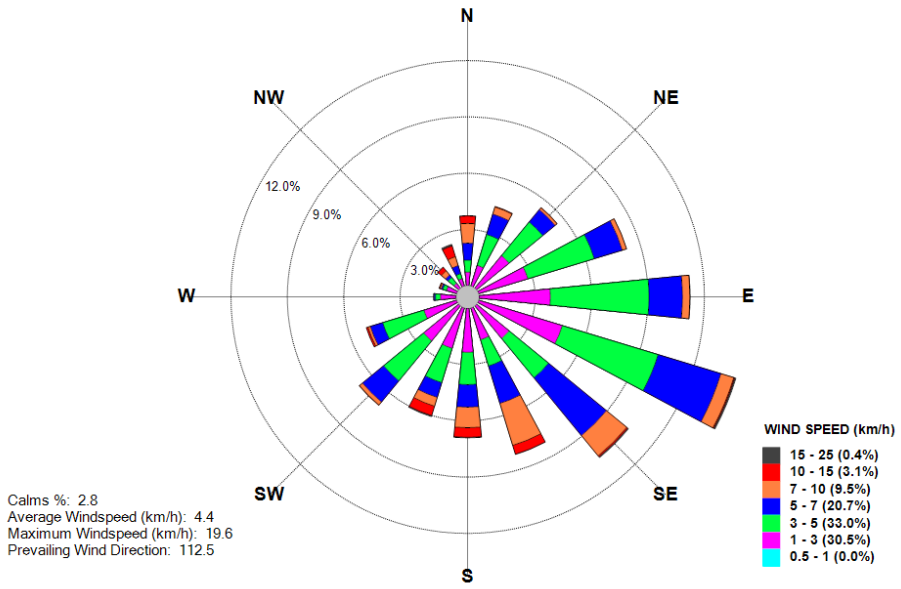
EPA Identifier	Location	Description	Date	Monthly
5	Dam B	Discharge from Dam B (from Quarry)	02/01/2026 - 02/02/2026	0.006

EPA Identifier	Location	Description	Date	Monthly
4	Adit Dam	Adit Dam to Creek (off site)	02/01/2026 - 02/02/2026	14.1

Meteorological Conditions

Monitoring Location: Mid-Pit Entrance
Monitoring Frequency: Continuous

Windrose



Monthly Summary

Date	Mean Wind Direction (°)	Mean Wind Speed (km/h)	Daily Rainfall (mm)	Mean Sigma Theta	Max Temperature (°C) at 2m	Min Temperature (°C) at 2m
01/01/26	184	4.9	2.4	42.0	22.6	16.3
02/01/26	149	3.6	3.2	38.9	23.0	16.0
03/01/26	83	3.9	0.0	35.2	27.5	16.7
04/01/26	174	5.8	40.6	32.2	34.2	17.1
05/01/26	196	4.1	0.2	36.8	27.6	16.8
06/01/26	161	4.0	0.0	35.8	29.1	19.0
07/01/26	122	3.3	0.0	31.3	32.9	20.3
08/01/26	74	3.9	0.0	29.4	37.6	19.1
09/01/26	106	4.1	0.0	34.3	38.6	18.9
10/01/26	263	9.4	0.0	41.3	40.4	22.7
11/01/26	157	7.9	30.2	42.2	23.1	16.3
12/01/26	150	3.3	3.4	33.4	23.1	16.4
13/01/26	116	3.3	0.0	32.5	28.2	19.8
14/01/26	82	3.3	1.6	33.9	25.2	20.0
15/01/26	73	4.1	9.2	34.3	29.6	19.6
16/01/26	172	5.8	0.0	38.1	26.2	19.4
17/01/26	161	5.6	30.2	34.9	27.8	18.2
18/01/26	119	5.3	53.6	34.5	22.6	16.2
19/01/26	146	3.4	2.2	37.5	25.8	17.5
20/01/26	169	3.9	0.0	40.6	26.1	16.6
21/01/26	170	4.0	1.0	32.5	26.0	15.9
22/01/26	177	6.0	0.0	37.2	27.7	17.7
23/01/26	160	3.6	0.0	39.8	24.3	17.0
24/01/26	123	3.0	0.0	37.2	29.9	16.5
25/01/26	169	3.7	0.0	34.3	39.3	20.1
26/01/26	173	7.5	0.0	42.5	28.0	20.2
27/01/26	146	3.7	0.0	35.7	26.6	17.7
28/01/26	130	3.4	0.0	32.4	30.2	16.9
29/01/26	107	3.7	0.0	31.8	28.8	20.4
30/01/26	112	2.9	0.0	31.7	29.9	20.3
31/01/26	155	3.0	0.0	35.7	33.2	20.2

Meteorological Conditions - Year to Date

Monitored Parameter	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Total Rainfall (mm)	177.8												177.8
Average Minimum Temperature (°C) at 2m	15.9												15.9
Average Maximum Temperature (°C) at 2m	40.4												40.4
Average Minimum Temperature (°C) at 10m	16.0												16.0
Average Maximum Temperature (°C) at 10m	39.4												39.4
Average Sigma Theta	35.8												35.8
Average Solar Radiation (W/m^2)	202.1												202.1
Average Relative Humidity (%)	70.0												70.0

Blasting

Monitoring Frequency Each Blast

Blast Monitoring Completed By MAXAM

Shot #	Day	Month	Time	Location	Elevation (m)	Location 1		Location 2		Location 3		Comments
						Overpressure dB(L)	Vibration mm/s	Overpressure dB(L)	Vibration mm/s	Overpressure dB(L)	Vibration mm/s	
1	13	January	13:18:00	Stage 1C	RL34	109.2	0.43	108.4	0.15	NM	NM	
2	27	January	12:00:00	Stage 1C	RL34	77.6	0.48	NT	NT	NM	NM	

NT Not Triggered
NM Not Monitored

Blasting Criteria

Parameter	Units of Measure	Limit	
		95% of blasts per year	100% of blasts
Airblast Overpressure (Linear Peak)	decibels (dBL)	115	120
Ground Vibration (Peak Particle Velocity)	millimeters per second	5	10

Comments

Two blasting events occurred during the monitoring period. All blast monitoring results were within the approved criteria.

Waste Management

Waste Removal Summary

Month	January	February	March	April	May	June	July	August	September	October	November	December
Item	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity
General Waste Bin (10m^3)	-											
General Waste Bin (4.5m^3)	-											
General Waste Bin (6m^3)	-											
General Waste Bin (20m^3)	1											
Paper & Cardboard Bin (3m^3)	2											
Shredded Paper Bin (240L)	4											
Co Mingled Recycling (2 x 240 L)	-											
Tonner Cartridges	-											
Waste Oil (L)	-											
Scrap Steel (t)	-											
Timber (m^3)	-											
Engine Coolant (L)	-											
Oil Filters (240L bin)	-											
Batteries	-											
Batteries - Office	-											
Oily Rags (240L bin)	-											
Aerosols (120L bin)	-											
Tyres	-											
Other	-											
Oily Water (L)	-											
Grease Waste (L)	-											