Teralba Quarry
Environmental Monitoring Summary

May 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:	May 2026
Date Last Data Received	16/07/2026
Date of Report	16/07/2026

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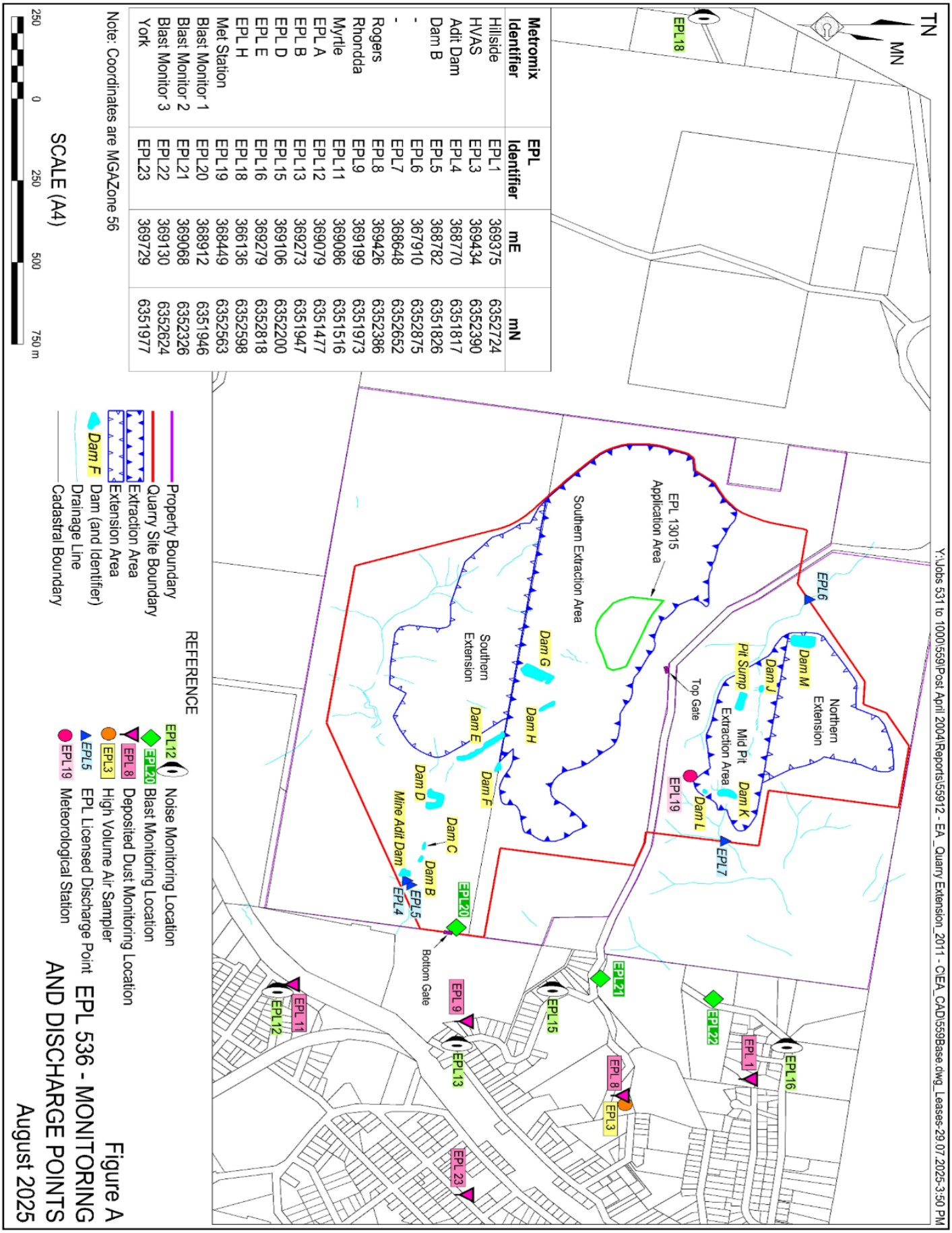


Metromix Identifier	EPL Identifier	mE	mN
Hillside	EPL1	369375	6352724
HVAS	EPL3	369434	6352390
Adit Dam	EPL4	368770	6351817
Dam B	EPL5	368782	6351826
-	EPL6	367910	6352875
-	EPL7	368648	6352652
Rogers	EPL8	369426	6352386
Rhondda	EPL9	369199	6351973
Myrtle	EPL11	369086	6351516
EPL A	EPL12	369079	6351477
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: 01/05/2026
Sample Period End: 02/06/2026
Sample Frequency: 30 ± 2 days
Sample Collected By: Cbased - C Dube, J N

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	0.1	0.1	100
8	Rodgers Street	4.0	0.2	0.2	100
9	Rhondda Road	4.0	0.9	0.6	67
11	Myrtle Street	4.0	0.4	0.3	75
23	York Street	4.0	3.3	2.6	79

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	0.8	Not Provided	-	0.2	Not Provided	-	0.4	Not Provided	-	0.4	Not Provided	-	0.9	Not Provided	-
March	0.5	0.2	40	0.5	0.2	40	0.5	0.4	80	0.4	0.1	25	0.2	0.2	100
April	0.7	Not Provided	-	0.6	Not Provided	-	0.3	Not Provided	-	0.2	Not Provided	-	1.0	Not Provided	-
May	0.9	0.6	67	0.4	0.3	75	0.1	0.1	100	0.2	0.2	100	3.3	2.6	79
June															
July															
August															
September															
October															
November															
December															
Annual Average	**0.7**	0.4	52	**0.4**	0.3	72	**0.4**	0.3	75	**0.5**	0.5	73	**1.1**	1.0	93
Annual Maximum	**0.9**	0.6	67	**0.6**	0.3	100	**0.9**	0.4	100	**1.4**	1.3	100	**3.3**	2.6	100
Annual Minimum	**0.5**	0.2	40	**0.2**	0.2	40	**0.1**	0.1	44	**0.2**	0.1	25	**0.2**	0.2	79

Note: Ash fraction results were not provided by the laboratory during the collection in February and April 2026. This does not constitute a non-compliance nor an incident as, in accordance with Condition 17 of Schedule 3 of PA10_0183, deposited dust is assessed as insoluble solids.

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} $\mu g/m^3$	24-Hour Average Criteria ($\mu g/m^3$)	Year to Date Average Criteria ($\mu g/m^3$)
01/05/2026	Cbased - CO	12/05/2026	12.3	50	25/30*
07/05/2026	Cbased - JN	18/05/2026	16.7	50	
13/05/2026	Cbased - LK	25/05/2026	6.2	50	
19/05/2026	Cbased - JN	27/05/2026	4.6	50	
25/05/2026	Cbased - JN	05/06/2026	16.4	50	
31/05/2026	Cbased - JN	10/06/2026	6.5	50	
Monthly Average			10.5	50	

*Project Approval (PA 10_0183) outlines the annual average PM_{10} criteria to be 30$\mu g/m^3$. 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 25$\mu g/m^3$. Metromix has considered both criteria for its review of particulate matter monitoring.

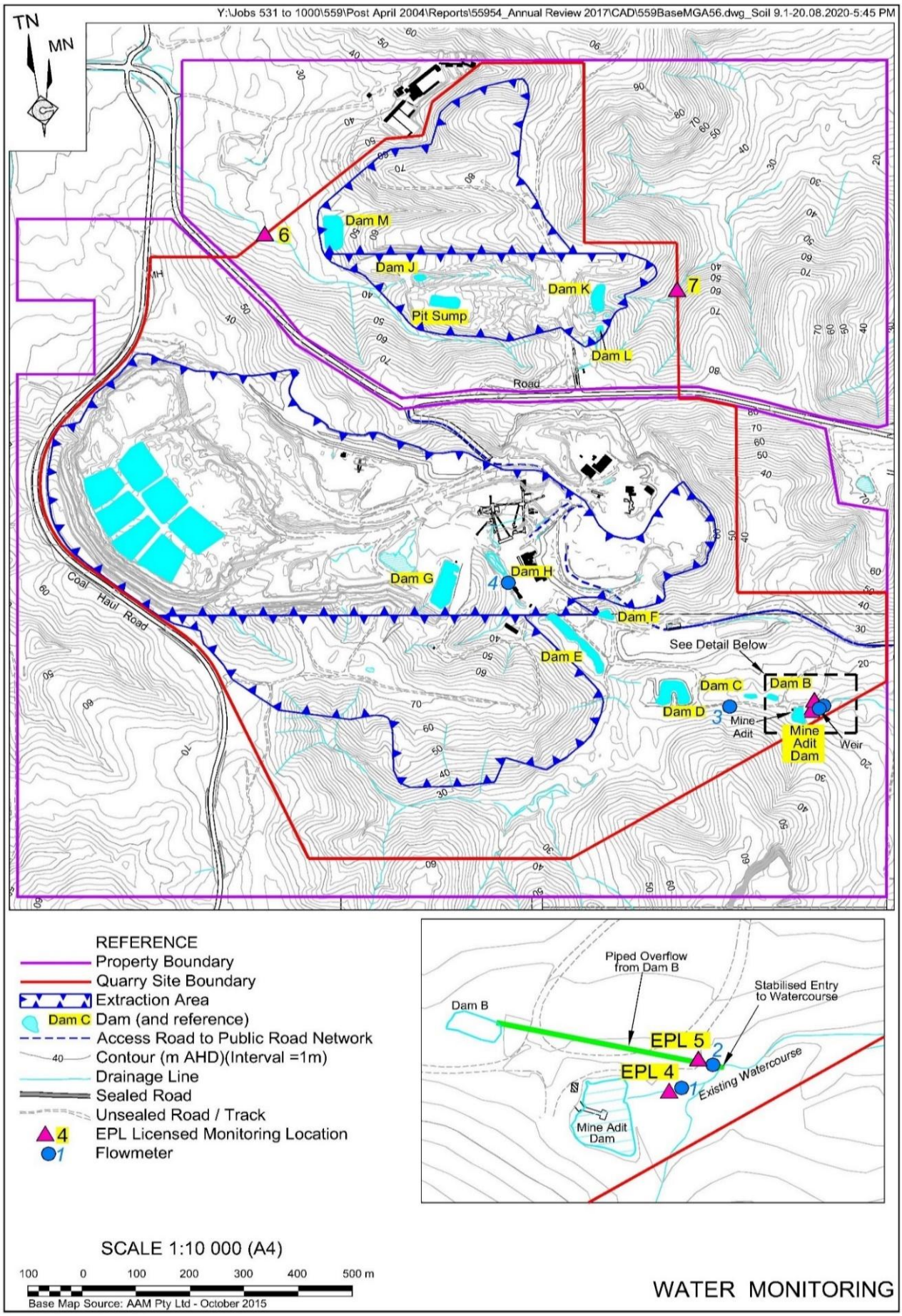
Comments

All PM10 results remained below the approved criteria for the sample period.

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 in January monitoring summary
06/02/2026	32.1	19.6	19.7	50	
12/02/2026	16.3		19.2	50	
18/02/2026	3.1		17.2	50	
24/02/2026	27.0		18.3	50	
02/03/2026	14.9	13.9	18.0	50	
08/03/2026	11.4		17.4	50	
14/03/2026	16.9		17.3	50	
20/03/2026	9.3		16.7	50	
26/03/2026	16.8		16.7	50	
01/04/2026	11.4	14.6	16.4	50	
07/04/2026	16.4		16.4	50	
13/04/2026	15.2		16.3	50	
19/04/2026	20.2		16.5	50	
25/04/2026	10.0		16.2	50	
01/05/2026	12.3	10.5	16.0	50	
07/05/2026	16.7		16.0	50	
13/05/2026	6.2		15.6	50	
19/05/2026	4.6		15.1	50	
25/05/2026	16.4		15.1	50	
31/05/2026	6.5		14.8	50	

Minimum	3.1
Maximum	92.9
Average	16.2
Standard Deviation	6.7
24-hr Criteria	50
Number of Exceedences	1
Annual Average Criteria	25/30*
Annual Average Criteria Exceeded	No
*See explanation on previous page.	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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 Guideline	6.5-8.5	125-2200	<50	-	
01/05/2026	7:00am	Metromix - CD	7/05/2026		7.60	2230	<5	<5	Slightly elevated EC compared with ANZECC Guidelines

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 Guideline	6.5-8.5	125-2200	<50	-	
Discharge began in March 2026 and continued until 19 May 2026; sampling was conducted within 12 hours of commencement in accordance 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 Guideline	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	February 2026	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 Guideline	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)	01/05/26-01/06/26	1.06	33.0
5	Dam B	Discharge from Dam B (from Quarry)	01/05/26-01/06/26	0.0130	0.402
4	Adit Dam	Water pumped from Adit Dam to Dam G (processing use)	01/05/26-01/06/26	4.03	124.8

Comments

All water monitoring results remained within the approved criteria levels during the monitoring period. It is noted that the Electrical Conductivity (EC) of the sample taken from EPL Point 4 on 1 May 2026 is slightly elevated compared with the ANZECC Water Quality Guideline Limits. However, this does not constitute an incident nor a non-compliance as there is no EC limit within EPL536 or PA 10_0183. As water from EPL Point 4 is reflective of the groundwater environment rather than impacts/discharge from the Quarry, EC should continue to be monitored to identify any trends in the baseline groundwater environment.

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 Guideline	6.5-8.5	125-2200	<50	-	-
January	7.44	2030	<5	<5	-
February	7.50	1450	<5	<5	-
March	7.18	1870	<5	<5	-
April	7.22	1980	7	<5	-
May	7.60	2230	<5	<5	See comment in previous tab
June					-
July					-
August					-
September					-
October					-
November					-
December					-

EPL Point 5 : Monitoring within 12 hrs of Discharge commencing

	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 Guideline	6.5-8.5	125-2200	<50	-	-
9/02/2026	7.40	969	<5	<5	-
10/03/2026	7.22	996	6	<5	-

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
			02/02/2026 - 03/03/2026	114.4
			03/03/2026 - 01/04/2026	107.7
			01/04/2026 - 01/05/2026	91.9
			01/05/2026-01/06/2026	124.8

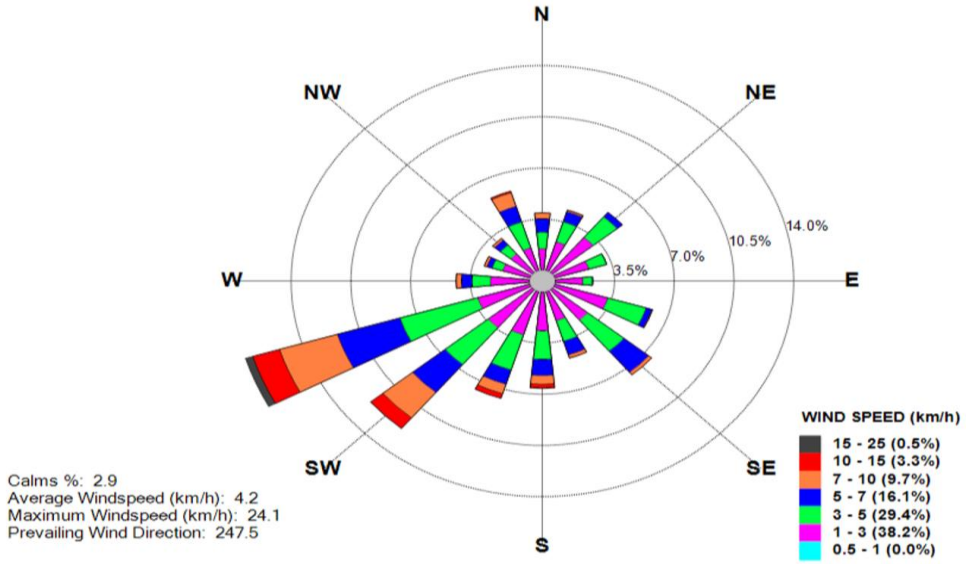
EPA Identifier	Location	Description	Date	Monthly
5	Dam B	Discharge from Dam B (from Quarry)	02/01/2026 - 02/02/2026	0.006
			02/02/2026 - 02/03/2026	0.001
			02/03/2026 - 01/04/2026	0.808
			01/04/2026 - 01/05/2026	1.203
			01/05/2026-01/06/2026	0.402

EPA Identifier	Location	Description	Date	Monthly
4	Adit Dam	Adit Dam to Creek (off site)	02/01/2026 - 02/02/2026	14.1
			02/02/2026 - 02/03/2026	5
			02/03/2026 - 01/04/2026	79.0
			01/04/2026 - 01/05/2026	50.0
			01/05/2026-01/06/2026	33.0

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
01/05/26	168	2.9	0.0	29.3	25.0	14.6
02/05/26	79	2.8	0.0	30.6	24.7	16.5
03/05/26	37	4.0	0.0	26.0	26.8	16.1
04/05/26	163	4.5	1.0	28.3	25.2	15.6
05/05/26	229	3.2	1.2	30.7	23.5	13.5
06/05/26	199	2.8	0.0	33.3	22.5	12.6
07/05/26	266	9.7	0.2	30.2	19.3	10.5
08/05/26	271	7.2	0.0	33.7	22.0	8.0
09/05/26	234	3.8	0.0	30.3	21.7	10.4
10/05/26	205	3.8	0.0	32.9	22.0	11.7
11/05/26	198	3.5	13.4	37.9	22.1	14.7
12/05/26	184	4.6	3.4	44.5	21.8	13.9
13/05/26	143	3.5	19.6	32.5	21.0	14.8
14/05/26	181	3.0	4.4	35.2	20.9	14.0
15/05/26	181	3.2	0.8	36.9	21.1	13.8
16/05/26	147	2.5	0.0	31.7	20.9	14.0
17/05/26	138	2.3	0.0	29.9	22.3	15.3
18/05/26	171	1.9	14.6	30.3	18.7	16.1
19/05/26	252	4.3	11.2	33.1	21.2	14.2
20/05/26	238	6.7	0.0	23.7	18.2	12.5
21/05/26	218	7.7	2.0	31.5	17.3	11.4
22/05/26	186	6.0	7.6	37.5	17.6	12.6
23/05/26	187	4.0	5.4	37.2	17.8	14.6
24/05/26	191	2.5	5.2	35.7	20.5	14.0
25/05/26	117	1.9	3.2	32.8	21.6	16.6
26/05/26	162	1.9	10.0	33.4	19.8	17.1
27/05/26	181	2.3	3.8	37.1	18.2	16.1
28/05/26	193	4.7	26.0	39.7	21.1	16.7
29/05/26	223	8.2	36.8	30.3	19.4	13.9
30/05/26	277	5.2	0.0	44.9	19.0	12.3
31/05/26	284	6.5	0.0	32.6	19.1	10.8

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	49.4	185.6	19.0	169.8								601.6
Average Minimum Temperature (°C) at 2m	15.9	15.5	12.2	11.1	8.0								12.5
Average Maximum Temperature (°C) at 2m	40.4	38.4	33.4	31.4	26.8								34.1
Average Minimum Temperature (°C) at 2m	16.0	16.3	12.4	11.5	8.1								12.9
Average Maximum Temperature (°C) at 10m	39.4	37.6	32.6	30.6	26.1								33.3
Average Sigma Theta	35.8	35.9	34.9	32.4	33.3								34.5
Average Solar Radiation (W/m^2)	202.1	166.8	143.8	137.0	72.7								144.5
Average Relative Humidity (%)	70.0	71.0	72.0	63.0	76.0								70.4

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	
3	11	February	14:49:00	Stage 2B-1	RL34	110.0	0.91	108.2	0.18	NM	NM	
4	24	February	13:25:00	Stage 2B-3	RL34	NM	NM	99.2	0.31	NM	NM	See comment in February monitoring summary.
5	2	March	12:45:00	Stage 2B-3	RL34	110.9	0.62	106.6	0.14	NM	NM	
6A	23	March	13:59:00	Stage 2B-3	RL34	106.7	0.7	103.5	0.22	NM	NM	Due to a misfire, 6A and 6B were undertaken on the same day, which is permissible in accordance with condition L6.2 of EPL536.
6B	23	March	13:14:00	Stage 2B-2	RL34	109.4	0.66	106.3	0.1	NM	NM	
7	7	April	14:05:00	Stage 2B-2	RL34	106.0	0.783	NT	NT	NM	NM	
8	24	April	12:17:00	Stage 2B-3	RL34	101.9	0.907	98.84	0.539	NM	NM	
9	5	May	13:43:00	Stage 2B-2	RL34	111.5	0.648	NT	NT	NM	NM	
11	25	May	13:49:00	Stage 2B-3	RL34	107.5	0.852	NT	NT	NM	NM	Shot #10 was prepared in May but firing postponed to June due to weather conditions.

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 within the monitoring period and all monitoring results were within the approved the criteria. Shot #10 was prepared within the monitoring period but firing postponed to June due to weather conditions.

Waste Management

Waste Removal Summary

Month	January	February	March	April	May	June	July	August	September	October	November	December
Items	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	1	1	1	1							
Paper & Cardboard Bin (3m^3)	2	1	1	1	1							
Shredded Paper Bin (240L)	4	-	-	-	-							
Co Mingled Recycling (2 x 240 L)	4	4	4	4	4							
Tonner Cartridges	-	-	-	-	-							
Waste Oil (L)	-	-	-	1000	-							
Scrap Steel (t)	-	-	1	-	2							
Timber (m^3)	-	-	-	-	-							
Engine Coolant (L)	-	4	-	-	-							
Oil Filters (240L bin)	-	-	1	-	-							
Batteries	-	-	-	15	-							
Batteries - Office	-	-	-	-	-							
Oily Rags (240L bin)	-	-	-	-	-							
Aerosols (120L bin)	-	-	-	-	-							
Tyres	-	7	8	3	-							
Other	-	-	-	-	-							
Oily Water (L)	-	-	-	-	2.2							
Grease Waste (L)	-	-	-	-	-							