

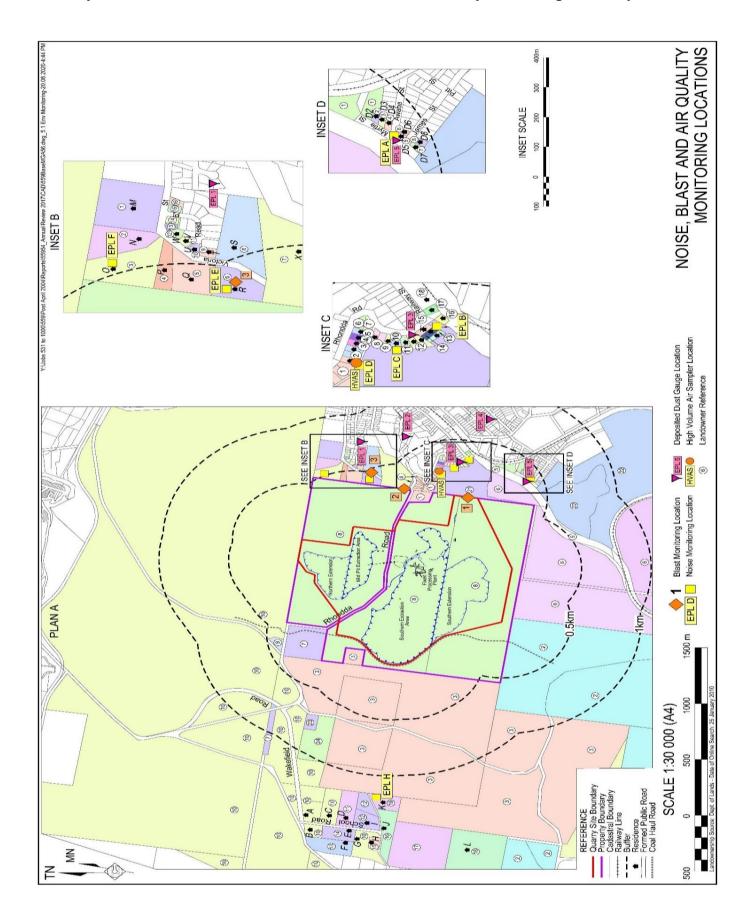
Teralba Quarry Environmental Monitoring Summary

December 2020

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: Sample Period: Data Last Data Received Date of Report	R. W. Corkery & Co. December 2020 14 January 2021 25 January 2021

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Deposited Dust

Sample Period Start:	2/12/2020
Sample Period End:	4/01/2021
Sample Frequency:	30 <u>+</u> 2 days
Sample Collected By:	Metromix - AL
Date Received by Laboratory:	5/01/2021
Date Results Received by Metromix:	14/01/2021

EPA Identification No.	entification Location		Insoluble Solids (g/m²/month)	Ash Fraction (g/m ² /month)	% Ash Fraction
1	Hillside Crescent	4.0	0.9	0.5	56
8	Rodgers Street	4.0	0.9	0.5	56
9	Rhondda Road	4.0	1.2	0.7	58
11	Myrtle Street	4.0	1.0	0.6	60
23	York Street	4.0	0.9	0.5	56

Comments

All deposited dust results remained below the approved criteria for the sample period.

Deposited Dust - Year to Date

	Rho	ondda Road		My	rtle Street		Hills	ide Crescent		Roc	lgers Street		York Street		
	Total			Total			Total			Total			Total		
	Insoluble	Ash		Insoluble	Ash		Insoluble	Ash		Insoluble	Ash		Insoluble	Ash	
	Solids	Fraction	% Ash	Solids	Fraction	% Ash	Solids	Fraction	% Ash	Solids	Fraction	% Ash	Solids	Fraction	% Ash
Units	g/m ² /month	g/m²/month		g/m²/month	g/m ² /month		g/m ² /month	g/m ² /month		g/m²/month	g/m²/month		g/m²/month	g/m²/month	
EPA Approved Level	4.0			4.0			4.0			4.0			4.0		
January	2.6	2.0	77	2.5	2.1	84	4.2	2.9	69	3.3	2.6	79	2.9	2.3	79
February	1.0	0.4	40	0.8	0.4	50	2.7	1.7	63	0.9	0.6	67	1.4	0.9	64
March	0.7	0.3	43	0.6	0.4	67	4.1	2.4	59	1.1	0.7	64	1.2	0.8	67
April	0.5	0.2	40	0.7	0.4	57	5.2	3.9	75	0.8	0.4	50	0.9	0.5	56
May	0.7	0.2	29	1.4	0.5	36	8.7	7.5	86	0.4	0.2	50	0.7	0.4	57
June	0.5	0.2	40	0.3	0.2	67	0.4	0.2	50	0.3	0.2	67	0.7	0.5	71
July	1.1	0.4	36	0.4	0.2	50	2.0	1.6	80	0.3	0.2	67	0.9	0.5	56
August	0.7	0.6	86	0.3	0.3	100	0.4	0.3	75	0.4	0.2	50	0.5	0.5	100
September	0.9	0.6	67.0	1.5	0.7	47.0	0.9	0.6	67.0	0.7	0.5	71.0	1.0	0.7	70.0
October	1.0	4.0	38.0	1.5	0.7	47.0	0.8	0.3	38.0	0.5	0.2	40.0	1.5	0.9	60.0
November	0.9	0.5	56.0	0.9	0.5	56.0	0.8	0.4	50.0	0.9	0.5	56.0	1.3	0.8	62.0
December	1.2	0.7	58	1.0	0.6	60	0.9	0.5	56	0.9	0.5	56	0.9	0.5	56
Annual Average	1.0	0.8	50.8	1.0	0.6	60.0	2.6	1.9	63.9	0.9	0.6	59.6	1.2	0.8	66.5
Annual Maximum	2.6	4.0	86.0	2.5	2.1	100.0	8.7	7.5	86.2	3.3	2.6	78.8	2.9	2.3	100.0
Annual Minimum	0.5	0.2	28.6	0.3	0.2	35.7	0.4	0.2	38.0	0.3	0.2	40.0	0.5	0.4	55.6

Particulate Matter (PM₁₀)

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

Collected by	Date Results Received	ΡΜ ₁₀ μg/m ³	Monthly Average Criteria (µg/m³)	Average Criteria (µg/m ³⁾
CBased - LK	14/12/2020	20	50	
CBased - JP	15/12/2020	26	50	
CBased - LK	22/12/2020	15	50	
CBased - JP	24/12/2020	7	50	
CBased - LK	5/12/2021	26	50	
		18.8		25/30*
sed against the Air Impact As NSW. The most up to date ve	ssessment Criteria outline rersion of this guideline wa	ed in EPA's <i>Appro</i> as published in 20	ved Methods for the Model 17 and outlines the annual	ling and
	CBased - LK CBased - JP CBased - LK CBased - JP CBased - LK outlines the annual average sed against the Air Impact As NSW. The most up to date v	Collected by Received CBased - LK 14/12/2020 CBased - JP 15/12/2020 CBased - LK 22/12/2020 CBased - JP 24/12/2020 CBased - LK 5/12/2020 CBased - LK 5/12/2020 CBased - LK 5/12/2021 outlines the annual average PM ₁₀ criteria to be 30µg/sed against the Air Impact Assessment Criteria outline WSW. The most up to date version of this guideline w	Collected byReceivedμg/m³CBased - LK14/12/202020CBased - JP15/12/202026CBased - LK22/12/202015CBased - JP24/12/20207CBased - LK5/12/202126018.8outlines the annual average PM10 criteria to be 30µg/m³. However, EPLsed against the Air Impact Assessment Criteria outlined in EPA's ApproNSW. The most up to date version of this guideline was published in 20	Collected by Received μg/m³ Criteria (μg/m³) CBased - LK 14/12/2020 20 50 CBased - JP 15/12/2020 26 50 CBased - LK 22/12/2020 15 50 CBased - JP 24/12/2020 7 50 CBased - LK 5/12/2021 26 50

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

Particulate Matter (PM_{10}) - Year to Date - 2020

	PM ₁₀ (μg/m ³)	Monthly Average	Year to Date	24-Hr Criteria	
Date		(µg/m³)	Average	(µg/m³)	Comments
3/01/2020	NR		(µɑ/m³) NR	50	Time stamp glitch - machine did not run. Make up run conducted on 22 January 2020.
9/01/2020	NR		NR	50	Did not run on scheduled run date. Make up run conducted on 5th February 2020
				50	
15/01/2020	15		15.0	50	
21/01/2020	72		43.5	50	
22/01/2020	71		52.7	50	
27/01/2020	40	49.5	49.5	50	
2/02/2020	37		47.0	50	
5/02/2020	9		40.7	50	
8/02/2020	14		36.9	50	
14/02/2020	12		33.8	50	
20/02/2020	14		31.6	50	
26/02/2020	15	16.8	29.9	50	
3/03/2020	7		27.8	50	
9/03/2020	7		26.1	50	
15/03/2020	8		24.7	50	
21/03/2020	24		24.6	50	
27/03/2020	11	11.4	23.7	50	
2/04/2020	13		23.1	50	
8/04/2020	5		22.0	50	
14/04/2020	17		21.7	50	
20/04/2020	16		21.4	50	
26/04/2020	28	15.8	21.8	50	
2/05/2020	9		21.1	50	
8/05/2020	15		20.9	50	
14/05/2020	12		20.5	50	
20/05/2020	14		20.2	50	
26/05/2020	11	12.2	19.8	50	
1/06/2020	13		19.6	50	
7/06/2020	13		19.3	50	
13/06/2020	14		19.1	50	
19/06/2020	8		18.8	50	
25/06/2020	6	10.8	18.3	50	
1/07/2020	13		18.2	50	
7/07/2020	6		17.8	50	
13/07/2020	4		17.4	50	
19/07/2020	12		17.2	50	
25/07/2020	11		17.0	50	
31/07/2020	20	11.0	17.1	50	
6/08/2020	11		16.9	50	
12/08/2020	8		16.7	50	
18/08/2020	4		16.4	50	
24/08/2020	8		16.2	50	
30/08/2020	26	11.4	16.4	50	4
5/09/2020	9		16.2	50	
11/09/2020	6		16.0	50	
17/09/2020	23		16.2	50	
23/09/2020	17		16.2	50	
29/09/2020	13	13.6	16.1	50	4
5/10/2020	23		16.3	50	
11/10/2020	14		16.2	50	
17/10/2020	25		16.4	50	
23/10/2020	15		16.4	50	
29/10/2020	7	16.8	16.2	50	
4/11/2020	33		16.5	50	4
10/11/2020	9		16.4	50	-
16/11/2020	21		16.4	50	-
22/11/2020	27		16.6	50	4
28/11/2020	25	23.0	16.8	50	4
4/12/2020	20		16.8	50	4
10/12/2020	26		17.0	50	4
16/12/2020	15		17.0	50	4
22/12/2020	7		16.8	50	4
28/12/2020	26	18.8	17.0	50	

Minimum	4					
Maximum	72					
Average	17.0					
Standard Deviation	15.5					
24-hr Criteria	50					
Number of Exceedences	2					
Annual Average Criteria	25/30*					
Annual Average Criteria	No					
Exceeded						
*See explanation on previous page.						

Water

Water Monitoring

EPL Point 4 - Monthly Monitoring

					рΗ	EC	TSS	Oil & Grease	Comments
				Units	pH Units	µS/cm	mg/L	mg/L	
			Date Results	EPL Criterion*	6.5-8.5	NA	<50	10	
Date	Time	Sampled By	Received	ANZECC Water Quality Limits	6.5-8.5	125-2200	<50	-	
9/12/2020	3:30pm	Metromix - MY	16/12/2020		7.25	1910	6	<5	

EPL Point 5 - Monitoring Daily During Discharge

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

EPL Point 6 - Monthly Monitoring

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

EPL Point 7 - Monthly Monitoring

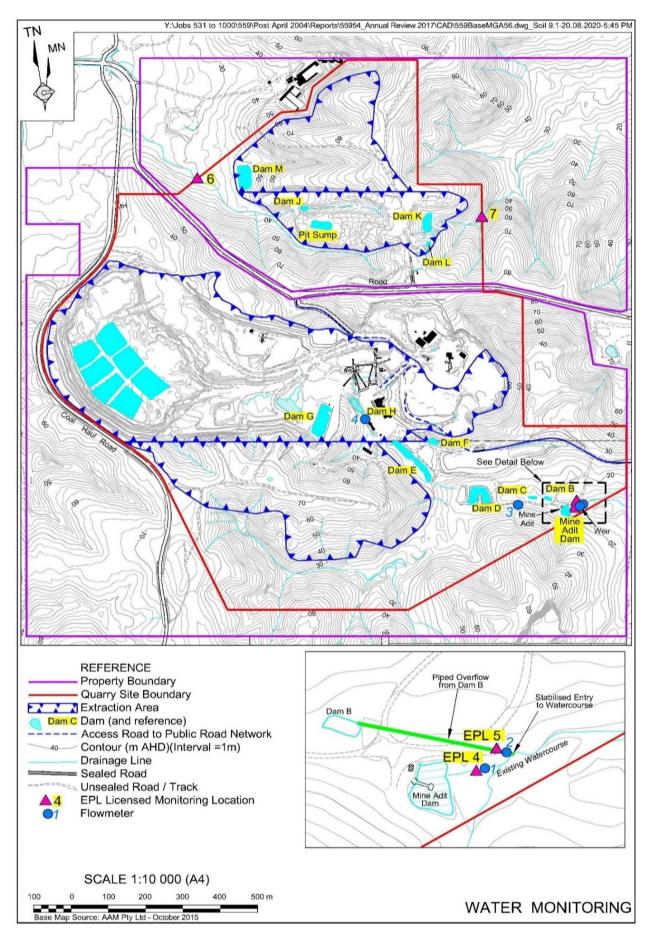
					рН	EC	TSS	Oil & Grease	Comments	
				Units	pH Units	µS/cm	mg/L	mg/L		
			Date Results	EPL Criterion*	6.5-8.5	NA	<50	10		
Date	Time	Sampled By	Received	ANZECC Water Quality Limits	6.5-8.5	125-2200	<50	-		
No discharge	No discharge occurred at this location and therefore no monitoring was required									

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)	1/12/2020 to 4/01/2021	2.21	75.09
5	Dam B	Discharge from Dam B (from Quarry)	1/12/2020 to 4/01/2021	N/A	0
4	Adit Dam	Water pumped from Adit Dam to Dam G (processing use)	1/12/2020 to 4/01/2021	N/A	84.8

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	6.5-8.5	125-2200	<50	<5	-
Quality Limits					
January	7.23	2140	9	<5	-
February	7.19	1990	<5	<5	-
March	7.36	2030	29	<5	-
April	7.22	2060	17	<5	-
May	7.16	2140	<5	<5	-
June	7.10	1990	6	<5	-
July	7.35	2010	<5	<5	-
August	6.79	849	<5	<5	-
September	7.12	1900	<5	<5	-
October	7.13	1960	<5	<5	-
November	NA	NA	NA	NA	No monitoring in this month
December	7.25	1910	6	<5	

EPL Point 5 : Monitoring Daily During Discharge

				Comments
pH Units	µS/cm	mg/L	mg/L	-
			10	-
6.5-8.5	125-2200	<50		-
	1050	<5	<5	-
7.10	1010	<5	<5	-
6.93	1180	<5	<5	-
6.99	1140	<5	<5	-
7.07	1140	<5	<5	-
7.17	1140	<5	<5	-
7.22	1150	<5	<5	-
7.09	1130	<5	<5	-
7.16	934	<5	<5	-
7.01	1020	<5	<5	-
6.85	1140	<5	<5	-
6.75	1190	<5	<5	-
6.78	1160	<5	<5	-
6.80	1150	<5	<5	-
				-
				-
				-
	1170	<5		-
6.95	1050	<5	<5	-
6.93	1020	8	<5	-
6.93	1080	5	<5	-
6.96	1010	<5	<5	-
6.74	1100	<5	<5	-
6.76	1130	<5	<5	-
6.86	1160	<5	<5	-
6.88	1120	<5	<5	-
6.99	1130	<5	<5	-
7.02	1130	<5	<5	-
6.95	1180	<5	<5	-
6.91	792	71	10	TSS exceedance due to significant rainfall. Oil
	_		_	and grease at but not over criteria
6.93	701	60	7	TSS exceedance due to significant rainfall.
			<5	TSS exceedance due to significant rainfall.
				-
				-
				-
				-
				-
				<u> </u>
				-
				- -
7.02	852	<0 5	<5	- -
1.03				
	2/6	-h		
6.95	846 856	<5	<5	
	846 856 826	<5 <5 <5	<5 <5 <5	
	pH pH Units 6.5-8.5 6.5-8.5 6.5-8.5 7.11 7.10 6.93 6.99 7.07 7.17 7.22 7.09 7.16 7.01 6.85 6.75 6.78 6.94 7.37 7.19 6.91 6.95 6.93 6.93 6.93 6.93 6.93 6.93 6.93 6.93 6.93 6.93 6.94 7.37 7.19 6.91 6.95 6.93 6.93 6.96 6.74 6.76 6.88 6.99 7.02 6.95	pH EC pH Units μS/cm 6.5-8.5 NA 6.5-8.5 125-2200 7.11 1050 7.10 1010 6.93 1180 6.99 1140 7.07 1140 7.17 1140 7.17 1140 7.16 934 7.09 1130 7.16 934 7.01 1020 6.85 1140 6.75 1190 6.76 1190 6.78 1160 6.80 1150 7.37 1170 7.19 1170 6.94 1150 7.37 1020 6.93 1020 6.93 1020 6.93 1020 6.93 1020 6.93 1020 6.93 1020 6.93 1020 6.94 1170 <td< td=""><td>pH Units μS/cm mg/L 6.5-8.5 NA <50</td> 6.5-8.5 125-2200 <50</td<>	pH Units μ S/cm mg/L 6.5-8.5 NA <50	pH EC TSS Oil & Grease pH Units μ S/cm mg/L mg/L 6.5-8.5 NA <50

Flow Meter Records

EPA Identifier	Location	Description	Date	Monthly Total
4	Adit Dam	Water pumped from Adit Dam to Dam G	4/01/2020	61.5
		(processing use)	4/02/2020	74.6
		(()	2/03/2020	78.4
			1/04/2020	94.4
			2/05/2020	92.0
			1/06/2020	0.0
			6/07/2020	0.0
			28/07/2020	16.0
			5/08/2020	14.8
			1/09/2020	56.0
			1/10/2020	80.8
			2/11/2020	70.4
			1/12/2020	80.1
			4/01/2021	84.8
EPA Identified	Location	Description	Date	Monthly Total
5	Dam B	Discharge from Dam B (from Quarry)	6/01/2020	0.0
			4/02/2020	0.0
			2/03/2020	0.0
			1/04/2020	0.2
			2/05/2020	0.1

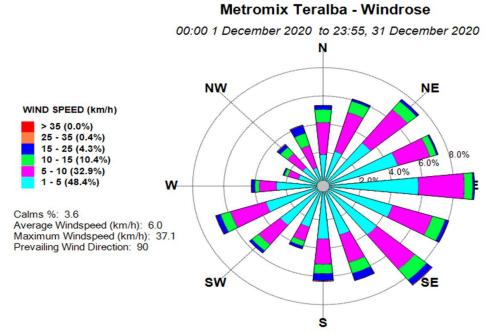
	1/04/2020	0.2
	2/05/2020	0.1
	1/06/2020	0.0
	6/07/2020	0.0
	5/08/2020	10.0
	1/09/2020	4.0
	1/10/2020	0.0
	2/11/2020	0.0
	1/12/2020	0.0
	4/01/2021	0.0

EPA Identified	Location	Description	Date	Monthly Total
4	Adit Dam	Adit Dam to Creek (off site)	6/01/2020	7.3
			4/02/2020	1.1
			2/03/2020	0.7
			1/04/2020	0.0
			2/05/2020	0.0
			1/06/2020	0.0
			6/07/2020	0.0
			5/08/2020	0.5
			1/09/2020	89.7
			1/10/2020	71.2
			2/11/2020	77.2
			1/12/2020	68.9
			4/01/2021	75.1

Meteorological Conditions

Monitoring Location:	Mid-Pit Entrance
Monitoring Frequency:	Continuous

Windrose



Monthly Summary

Date	Mean Wind Direction (°)	I Daily Raintall (mm) I Mean Sigma Thet		Mean Sigma Theta	Max Temperature (°C) at 2m	Min Temperature (°C) at 2m
01/12/20	111.0	6.9	18	30.6	35.4	18.4
02/12/20	125.0	7.2	0	32.7	23.2	19
03/12/20	90.3	4.2	0	30.8	21.4	18
04/12/20	166.0	4.3	0	29.4	29.8	18.2
05/12/20	157.4	5.2	14.2	35.6	28	18
06/12/20	248.8	9.0	3.8	39.7	32.8	20
07/12/20	223.7	6.8	0	31.6	31.4	17.8
08/12/20	190.2	8.0	0	33.9	23.2	15.6
09/12/20	163.5	4.6	0	28.2	26.2	13.8
10/12/20	171.2	6.9	0.2	34.6	29.4	14.4
11/12/20	140.4	8.6	1	40.0	21.0	16.0
12/12/20	120.4	7.0	0	34.1	24.2	17.2
13/12/20	127.0	5.6	0.2	34.5	24.6	17.6
14/12/20	122.6	4.7	1	31.0	23.4	17.6
15/12/20	98.0	5.3	26	33.1	23.1	18.0
16/12/20	73.8	6.2	0.8	27.5	30.6	21.5
17/12/20	112.8	6.1	1.2	23.8	32.8	21.0
18/12/20	203.2	7.9	3.2	27.1	31.2	21.4
19/12/20	149.4	5.3	4.6	39.5	21.6	18.2
20/12/20	195.5	3.8	9.8	33.1	21.9	17.8
21/12/20	148.9	3.0	45.6	33.8	21.2	18.8
22/12/20	257.9	7.8	11.4	39.0	29.0	18.4
23/12/20	199.1	6.2	0	33.6	26.1	15.4
24/12/20	131.5	4.6	0	22.5	28.2	15.8
25/12/20	159.1	6.7	2.4	35.7	23.8	18.5
26/12/20	100.6	5.5	2.2	28.9	26.6	17.6
27/12/20	183.5	6.4	0.6	28.1	33.8	16.6
28/12/20	181.2	10.0	17	35.5	30.2	17.4
29/12/20	186.9	3.9	4.6	35.0	20.8	17.2
30/12/20	173.5	4.0	16.2	34.9	23.7	16.8
31/12/20	167.1	4.2	1.4	41.8	24.2	18.4

Meteorological Conditions - Year to Date

Monitored Parameter	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Total Rainfall (mm)	39.0	236.8	194.0	50.8	72.8	101.8	217.0	46.0	29.4	172.6	45.2	185.4	1384.2
Average Minimum Temperature (°C) at 2m	20.4	19.1	16.8	14.7	11.0	9.4	9.2	8.6	7.6	10.0	15.6	17.8	13.3
Average Maximum Temperature (°C) at 2m	31.1	28.7	25.9	24.8	19.6	18.2	17.4	18.8	30.0	32.5	27.7	26.5	25.1
Average Minimum Temperature (°C) at 10m	20.6	19.5	17.3	15.3	11.8	10.2	10.0	9.1	7.8	11.2	16.1	18.1	13.9
Average Maximum Temperature (°C) at 10m	30.2	27.6	24.9	23.9	19.0	17.6	16.9	18.0	29.0	31.3	26.5	25.6	24.2
Average Sigma Theta	32.1	30.2	29.5	28.2	26.0	27.1	25.0	29.9	28.3	30.9	31.0	32.9	29.3
Average Solar Radiation (W/m ²)	190.0	169.0	152.0	132.0	101.0	90.4	88.1	131.9	167.9	186.0	228.2	185.3	151.8
Average Relative Humidity (%)	71.6	74.0	75.6	65.1	69.0	73.0	72.2	59.9	61.0	70.0	66.0	72.0	69.1

Blasting

Monitoring Frequency:	
Blast Monitoring Completed By:	

Each Blast Orica (Blast 1 to 12) MAXAM (Blast 13)

					Locatio	on 1	Locatio	n 2	Location 3		Comments
Shot #	Day	Month	Time	Location	Overpressue	Vibration	Overpressue	Vibration	Overpressue	Vibration	
					dB(L)	mm/s	dB(L)	mm/s	dB(L)	mm/s	
1	20	January	13:02:02	Stage 1A	108	0.9	104	0.2	NM	NM	
											Exceeded the maximum overpressure criteriea by
2	13	February	11:21:20	Stage 2A	122.3	0.4	109.2	0.2	NM	NM	2.3 dB(L). Causes of the exceedence was blast design paramaters and
											overcast low cloud conditions.
3	5	February	11:17:16	Stage 1A	104.9	0.2	NT	NT	NM	NM	
4	16	March	14:32:16	Stage 2A	116.3	0.3	110	0.1	NM	NM	Exceeded the overpressure criteriea by 1.3 dB(L). Causes of the
4	10	warch	14.32.10	Slage ZA	110.3	0.3	110	0.1			exceedence was blast design parameters.
5	11	March	10:57:50	Stage 1A	101	0.2	104	0.2	NM	NM	
6	25	March	14:57:07	Stage 1B	115.7	0.2	112.6	0.2	NM	NM	Exceeded the overpressure criteriea by 0.7 dB(L). Causes of the
0	25	IVIAICI	14.57.07	Slage TB	115.7						exceedence was blast design parameters.
7	7	April	11:05:00	Stage 1A	NT	NT	NT	NT	NM	NM	
8	22	April	11:50:29	Stage 2A	104.1	0.2	NT	NT	NM	NM	
9	3	June	11:37:14	Stage 2A	100.1	0.3	NT	NT	NM	NM	
10	11	June	12:02:55	Stage 2A	102	0.2	81.97	0.5	NM	NM	
11	1	July	11:00:08	Stage 2A	104.7	0.2	100.6	0.1	NM	NM	
12 & 12B	3	August	14:19:48	Stage 2A	106.6	0.2	103.3	0.2	NM	NM	
13	18	August	12:47:00	Stage 2A	NT	NT	NT	NT	NM	NM	
14A & 14B	1	September	12:27:00	Stage 2A	NT	NT	NT	NT	NM	NM	The trigger parameters for the blast monitors were reduced to 100dBL and 0.13mm/s to assist in obtaining a reading. An additional monitor was placed halfway inbetween Blast monitor 1 (McEwen St) and the blast. This monitor recorded 108.2dBL overpressure and 0.28mm/s vibration. None of the mandatory blast monitors triggered.
15A & 15B	22	September	14:23:00	Stage 2A	82.3	0.6	NT	NT	NM	NM	
16	23	October	15:23:00	Stage 2A	111.8	0.26	106.6	0.79	NM	NM	
17	5	November	13:22:00	Stage 2A	104	0.56	NT	NT	NM	NM	
18	19	November	14:47:00	Stage 2B	NT	NT	NT	NT	NM	NM	The monitors were setup with the followinjg trigger levels - Vibration = 0.13mm/sec, Overpressure = 100dBL
19	20	November	11:05:00	Stage 2A	NT	NT	NT	NT	NM	NM	The monitors were setup with the followinjg trigger levels - Vibration = 0.13mm/sec, Overpressure = 100dBL
20	11	December	14:56:37	Stage 2A	109.1	0.23	104.7	0.12	NM	NM	
21	22	December	11:43:44	Stage 2A	NT	NT	NT	NT	NM	NM	The monitors were setup with the followinjg trigger levels - Vibration = 0.52mm/sec, Overpressure = 110dBL

NT Not Triggered NM Not Monitored

Blasting Criteria

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

Comments

Two blasting events occurred during the monitoring period. All blast monitoring results were within the approved criteria with one blasts not triggering the monitor.

Waste Management

Waste Removal Summary

Month	January	February	March	April	Мау	June	July	August	September	October	November	December
Items	Quantity	Quantity	Quantity	Quantity								
General Waste Bin (10m ³)												
General Waste Bin (4.5m ³)												
General Waste Bin (6m3)												
General Waste Bin (20m ³)		1		1	1	1	1	1	1	2		1
Paper & Cardboard Bin (3m ³)	2	1	2	1	1	2	1	2	1	2	1	1
Shredded Paper Bin (240L)			3				1					
Co Mingled Recycling (2 x 240 L)	4	4		4	4	4	4	4	4	4	4	4
Tonner Cartridges	23											
Waste Oil (L)		1700		500		1600	1200		1100			2000
Scrap Steel (t)												
Timber (m ³)												
Engine Coolant (L)												
Oil Filters (240L bin)		2							1			
Batteries												
Oily Rags (240L bin)					125							
Aerosols (120L bin)												
Tyres												
Other												
Oily Water (L)						162						
Grease Waste (L)												