

2023 Annual Environmental Monitoring Report

Blakebrook Quarry



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Certification

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Table of Contents

1.	Introduction	1
1.1	Background	1
1.1.1	Objectives and Scope	1
1.1.2	Reporting Period	1
1.2	Relevant Approvals	2
1.3	DPE's Response to 2022 AEMR	2
2.	Statement of Compliance	3
2.1	Introduction	3
2.2	Schedule 1 – Description of Approval	3
2.3	Schedule 2 – Administrative Conditions	3
2.3.1	Schedule 2 – Condition 1 (Obligation to Minimise Harm to the Environment)	3
2.3.2	Schedule 2 – Condition 2 (Terms of Approval)	3
2.3.3	Schedule 2 – Condition 3 (Terms of Approval)	3
2.3.4	Schedule 2 – Condition 4 (Terms of Approval)	4
2.3.5	Schedule 2 – Condition 5 (Terms of Approval)	4
2.3.6	Schedule 2 – Condition 5A (Terms of Approval)	4
2.3.7	Schedule 2 – Condition 6 (Limits on Approval)	4
2.3.8	Schedule 2 – Condition 7 (Limits on Approval)	5
2.3.9	Schedule 2 – Condition 8 (Limits on Approval)	5
2.3.10	Schedule 2 – Condition 9 (Structural Adequacy)	6
2.3.11	Schedule 2 – Condition 10 (Demolition)	6
2.3.12	Schedule 2 – Condition 11 (Protection of Public Infrastructure)	7
2.3.13	Schedule 2 – Condition 12 (Operation of Plant and Equipment)	7
2.3.14	Schedule 2 – Condition 13 (Section 94 Contributions)	7
2.3.15	Schedule 2 – Condition 14 (Production Data)	8
2.3.16	Schedule 2 – Condition 15 (Compliance)	8
2.3.17	Schedule 2 – Condition 16 (Identification of Boundaries)	9
2.4	Schedule 3 – Specific Environmental Conditions	10
2.4.1	Schedule 3 – Condition 1 (Hours of Operation)	10
2.4.2	Schedule 3 – Condition 2 (Hours of Operation)	10
2.4.3	Schedule 3 – Condition 2A (Hours of Operation)	11
2.4.4	Schedule 3 – Condition 3 (Noise)	12
2.4.5	Schedule 3 – Condition 4 (Operating Conditions)	15
2.4.6	Schedule 3 – Condition 5 (Noise Management Plan)	16
2.4.7	Schedule 3 – Condition 6 (Blasting Impact Assessment Criteria)	17
2.4.8	Schedule 3 – Condition 7 (Blasting Frequency)	20
2.4.9	Schedule 3 – Condition 8 (Operating Conditions)	20
2.4.10	Schedule 3 – Condition 9 (Blast Management Plan)	21
2.4.11	Schedule 3 – Condition 10 (Air Quality Impact Assessment Criteria)	22
2.4.12	Schedule 3 – Condition 11 (Operating Conditions)	28
2.4.13	Schedule 3 – Condition 12 (Air Quality Management Plan)	28
2.4.14	Schedule 3 – Condition 13 (Meteorological Monitoring)	29
2.4.15	Schedule 3 – Condition 14 (Greenhouse Gas Emissions)	29
2.4.16	Schedule 3 – Condition 15 (Water Supply)	29
2.4.17	Schedule 3 – Condition 16 (Water Discharges)	29



2.4.18	Schedule 3 – Condition 17 (Groundwater Assessment)	30
2.4.19	Schedule 3 – Condition 18 (Soil and Water Management)	30
2.4.20	Schedule 3 – Condition 19 (Soil and Water Management)	31
2.4.21	Schedule 3 – Condition 20 (Monitoring of Product Transport)	40
2.4.22	Schedule 3 – Condition 21 (Road Upgrades)	40
2.4.23	Schedule 3 – Condition 22 (Operating Conditions)	41
2.4.24	Schedule 3 – Condition 23 (Traffic Management Plan)	42
2.4.25	Schedule 3 – Condition 24 (Aboriginal Heritage Management Plan)	42
2.4.26	Schedule 3 – Condition 25 (Aboriginal Heritage Management Plan)	43
2.4.27	Schedule 3 – Condition 25A (Biodiversity Offset Strategy)	43
2.4.28	Schedule 3 – Condition 26 (Rehabilitation Objectives)	44
2.4.29	Schedule 3 – Condition 27 (Progressive Rehabilitation)	45
2.4.30	Schedule 3 – Condition 28 (Biodiversity and Rehabilitation Management)	45
2.4.31	Schedule 3 – Condition 29 (Biodiversity and Rehabilitation Bond)	50
2.4.32	Schedule 3 – Condition 30 (Biodiversity and Rehabilitation Bond)	50
2.4.33	Schedule 3 – Condition 31 (Visual)	51
2.4.34	Schedule 3 – Condition 32 (Waste)	51
2.4.35	Schedule 3 – Condition 33 (Waste)	52
2.4.36	Schedule 3 – Condition 34 (Liquid Storage)	52
2.4.37	Schedule 3 – Condition 35 (Dangerous Goods)	52
2.4.38	Schedule 3 – Condition 36 (Bushfire)	53
2.5	Schedule 4 – Additional Procedures	54
2.5.1	Schedule 4 – Condition 1 (Notification of Landowners)	54
2.5.2	Schedule 4 – Condition 2 (Independent Review)	54
2.5.3	Schedule 4 – Condition 3 (Property Inspections)	55
2.5.4	Schedule 4 – Condition 4 (Property Inspections)	55
2.5.5	Schedule 4 – Condition 5 (Property Investigations)	55
2.6	Schedule 5 – Environmental Management, Reporting & Auditing	57
2.6.1	Schedule 5 – Condition 1 (Environmental Management Strategy)	57
2.6.2	Schedule 5 – Condition 2 (Evidence of Consultation)	57
2.6.3	Schedule 5 – Condition 3 (Management Plan Requirements)	58
2.6.4	Schedule 5 – Condition 4 (Application of Existing Management Plans)	59
2.6.5	Schedule 5 – Condition 4A (Revision of Strategies, Plans & Programs)	59
2.6.6	Schedule 5 – Condition 5 (Update to Strategies, Plans or Programs)	60
2.6.7	Schedule 5 – Condition 6 (Adaptive Management)	60
2.6.8	Schedule 5 – Condition 7 (Community Consultative Committee)	61
2.6.9	Schedule 5 – Condition 8 (Incident Notification)	62
2.6.10	Schedule 5 – Condition 9 (Non-Compliance Notification)	62
2.6.11	Schedule 5 – Condition 10 (Regular Reporting)	62
2.6.12	Schedule 5 – Condition 11 (Annual Review)	63
2.6.13	Schedule 5 – Condition 12 (Independent Environmental Audit)	64
2.6.14	Schedule 5 – Condition 13 (Implementation of Audit Recommendations)	64
2.6.15	Schedule 5 – Condition 14 (Access to Information)	66
2.7	Appendix 5 – Noise Compliance Assessment	66
2.7.1	Appendix 5 – Condition 1 (Applicable Meteorological Conditions)	66
2.7.2	Appendix 5 – Condition 2 (Determination of Meteorological Conditions)	67
2.7.3	Appendix 5 – Condition 3 (Compliance Monitoring)	67
2.7.4	Appendix 5 – Condition 4 (Compliance Monitoring)	67



3.	Summary of Findings and Actions	69
3.1	Summary of Non-Compliances	69
3.1.1	Non-compliance 1 – Out of Hours Work Notification	69
3.1.2	Non-compliance 2 – Noise Exceedance	69
3.1.3	Non-compliance 3 – Blast Notification	70
3.1.4	Non-compliance 4 – Dust Exceedance 1	70
3.1.5	Non-compliance 5 – Dust Exceedance 2	70
3.1.6	Non-compliance 6 – Groundwater Exceedances	71
3.2	Status of Actions Identified in 2022 AEMR	71
3.3	Recommendations for Environmental Performance	72

4.	Conclusion and Recommendations	73
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Illustrations

Illustration 1.1	Site Location	2
Illustration 2.1	Noise Monitoring Locations	13
Illustration 2.2	Blast monitoring locations	18
Illustration 2.3	Dust Monitoring Locations	23
Illustration 2.4	Surface water and groundwater monitoring locations	33
Illustration 2.5	Bush Regeneration Monitoring Map (Lunn, 2023)	48

Tables

Table 1.1	Summary of the DPE's Response to 2022 AEMR	2
Table 2.1	2023 Laden Truck Movements	6
Table 2.2	Annual Quarry Production Data Q2 2018 - Q4 2023	8
Table 2.3	Summary of Noise Monitoring Results 2019-2023	13
Table 2.4	Comparison of noise levels before and after Asphalt Plant fan upgrades.	14
Table 2.5	Blast Monitoring Results	19
Table 2.6	Yearly Maximum Airblast Overpressure 2016-2022	19
Table 2.7	Yearly Maximum Ground Vibration 2016-2022	20
Table 2.8	Air Quality Criteria for Particulate Matter and Average Results	27
Table 2.9	Annual Average Dust Deposition Rates 2017-2023	27
Table 2.10	Summary of Surface Water Monitoring of Receiving Waterways	34
Table 2.11	Sections relevant to Schedule 5 Condition 11	64
Table 3.1	Actions Planned for 2023 and Status	71

Figures

Figure 2.1	Monthly ash deposition results 2017-2023 for site D1	24
Figure 2.2	Monthly ash deposition results 2017-2023 for site D2	24
Figure 2.3	Monthly ash deposition results 2017-2023 for site D3	25
Figure 2.4	Monthly total suspended solids deposition results 2013-2023 for site D1	25
Figure 2.5	Monthly total suspended solids deposition results 2013-2023 for site D2	26
Figure 2.6	Monthly total suspended solids deposition results 2013-2023 for site D3	26
Figure 2.7	Surface water TSS monitoring results 2017-2022	35
Figure 2.8	Surface water pH monitoring results 2017-2022	35
Figure 2.9	Lead concentration (mg/L) within BQS1-S and rainfall (mm) for the period 2018-2023.	38
Figure 2.10	Iron concentration (mg/L) within BQN1-S and rainfall (mm) for the period 2018-2023.	39
Figure 2.11	Total oils and grease (mg/L) within BQN1-S for the period 2018-2023.	39



Appendices

Appendix A Project Approval 07 0020 Mod 3
Appendix B Environmental Protection Licence 3384
Appendix C DPE Response to 2021 AEMR
Appendix D Extractive Materials Return
Appendix E Quarry Production Summary
Appendix F Asphalt Sales Summary
Appendix G Laden Truck Movements
Appendix H Section 7.11 Contributions
Appendix I Non-compliance 1: Out of Hours Work
Appendix J Noise Monitoring Assessment
Appendix K Non-compliance 2 - Noise
Appendix L Supplementary Noise Monitoring Assessment
Appendix M Blast Reports
Appendix N Complaints Register
Appendix O Non-compliance 3 – Blast Notification
Appendix P Dust Deposition Gauge Results
Appendix Q Non-compliance 4 – Dust Exceedance
Appendix R Non-compliance 5 – Dust Exceedance
Appendix S Weather Observations
Appendix T 2022 Annual Site Water Balance
Appendix U Surface Water Monitoring Results
Appendix V Groundwater Monitoring Results
Appendix W Non-compliance 6 – Groundwater Exceedances
Appendix X 2023 Groundwater Investigation
Appendix Y 2022 Groundwater Investigation
Appendix Z Bush Regeneration Plan Monitoring Report
Appendix AA CCC Meeting Minutes
Appendix BB Access to information



Executive Summary

Blakebrook Quarry is a basalt quarry located off Nimbin Road, approximately 7 km north-west of Lismore. The Quarry is operated by Northern Rivers Quarry, which is a commercial entity operated by Lismore City Council. The Quarry is identified as a state significant development and provides a range of quarry products to northern NSW. Materials provided include aggregates, drainage rock, metal dust, basalt products, road base, fill material, select fill, and precoat.

Pursuant to the conditions of approval, the NSW Department of Planning, Housing and Infrastructure requires an annual review of the environmental performance of the Quarry. This Annual Environmental Monitoring Report (AEMR) has been prepared to comply with this requirement. The reporting period for this AEMR is 1 January 2023 to 31 December 2023.

In this AEMR, each condition of approval is reproduced in full and followed by a compliance statement addressing the findings.

Overall, this AEMR has found a high level of compliance with the conditions of approval.

Six non-compliances were identified:

- Out-of-hours work notification: In the months preceding November, the Quarry failed to notify LCC and the EPA at least seven days' prior to undertaking out-of-hours work.
- Noise exceedance: During routine noise monitoring in June, the measured noise levels at Receiver 8 exceeded the day, evening and nighttime noise limit criteria of 35dB(A) $L_{Aeq,15min}$.
- Blast notification: Sensitive receivers were given less than 24 hours' notice prior to blasting activities undertaken in March.
- Dust exceedance: Dust concentrations exceeded the relevant criteria at site D3 during Exposure Period 18/09/2023 - 16/10/2023.
- Dust exceedance: Dust concentrations exceeded the relevant criteria at site D3 during Exposure Period 11/12/2023 - 08/01/2024.
- Groundwater exceedances: Concentrations of total iron, total lead, and total oils and grease exceeded the interim trigger values at various times during the monitoring period.

Each non-compliance was appropriately reported and investigated.



1. Introduction

1.1 Background

Blakebrook Quarry (the Quarry) is a basalt quarry located at 550 Nimbin Road, Blakebrook, approximately 7 km north-west of Lismore. The location of the Quarry is depicted within **Illustration 1.1**.

The Quarry is operated by Northern Rivers Quarry, which is a commercial entity within Lismore City Council (LCC). The Quarry is identified as state significant development and provides a range of quarry products to northern NSW. Materials provided include aggregates, drainage rock, road base, basalt, metal dust, fill material and select fill.

The Quarry initially started operations in 1979 with development consent formally granted by Lismore City Council in 1995. Approval was granted for the expansion of the Quarry in November 2009 via a new Project Approval (MP 07_0020) under Part 3A (since repealed) of the *Environmental Planning and Assessment Act 1979* (EP&A Act), and subsequently modified (Mod 1) in September 2017. In July 2021, approval was issued for Modification 3 (the Approval) to the consent. The Approval is provided at **Appendix A**.

Pursuant to the conditions of approval, the Department of Planning, Housing and Infrastructure (DPHI), formerly the Department of Planning and Environment (DPE), requires an annual review of the environmental performance of the Quarry. This Annual Environmental Monitoring Report (AEMR) has been prepared to comply with this requirement.

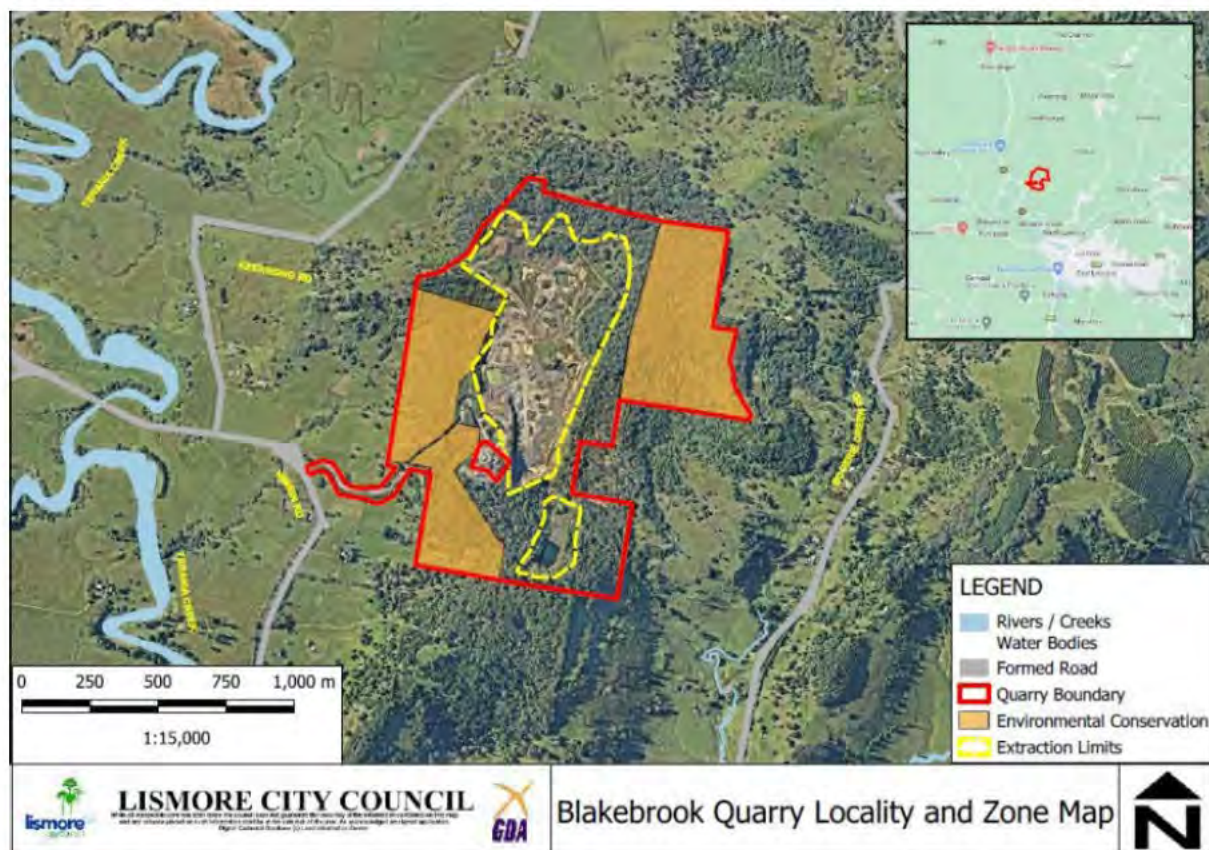
1.1.1 Objectives and Scope

This AEMR is prepared in response to Schedule 5, Condition 11 of the Approval. As per Schedule 1 of the Approval, this AEMR will review the environmental performance of the Quarry within the extraction areas (Lot 53 DP1254990), Asphalt Plant (Lot 54 DP1254990), and access road (Lot 53 DP1254990).

1.1.2 Reporting Period

The reporting period for this AEMR is 1 January 2023 to 31 December 2023.

Illustration 1.1 Site Location



1.2 Relevant Approvals

Section 75J Approval (Modification 3) to Project Approval 07_0020 was approved in July 2021. The approval was issued by the Minister for Planning and expires on 31 December 2039.

The Quarry is also subject to Environmental Protection Licence (EPL) 3384 which is issued by the NSW Environment Protection Authority (EPA) pursuant to the *Protection of the Environment Operations Act 1997*. The licence provides details with respect to a range of environmental thresholds to be complied with during the operation of the Quarry. The EPL is reviewed annually, and a copy of the current licence is provided at **Appendix B**.

1.3 DPE's Response to 2022 AEMR

The 2022 AEMR was submitted to the DPE on 30 March 2023. On 5 April 2023, the DPE advised that the 2022 AEMR had been reviewed. A copy of this response is provided within **Appendix C**. The DPE commented that the AEMR generally satisfied the reporting requirements of the Approval and the Department's Annual Review Guideline. A summary of recommendations provided by the DPE is detailed within **Table 1.1**.

Table 1.1 Summary of the DPE's Response to 2022 AEMR

DPE Comment	Response
Please make publicly available a copy of the Annual Review on the company's website.	Refer to Section 2.6.15 .



2. Statement of Compliance

2.1 Introduction

This section provides a comprehensive compliance assessment relating to each condition of consent applicable to MP07_0020. Each condition is reproduced in full and followed by a compliance statement addressing the findings of this AEMR.

2.2 Schedule 1 – Description of Approval

Schedule 1 describes the development, approval dates, and delegations. No compliance statement is required.

2.3 Schedule 2 – Administrative Conditions

2.3.1 Schedule 2 – Condition 1 (Obligation to Minimise Harm to the Environment)

Condition

In addition to meeting the specific performance measures and criteria established under this approval, the Proponent must implement all reasonable and feasible measures to prevent or minimise any harm to the environment that may result from the construction, operation, or rehabilitation of the project.

Compliance Statement

Noted.

2.3.2 Schedule 2 – Condition 2 (Terms of Approval)

Condition

The Proponent must carry out the project:

- (a) generally in accordance with the EA and EA (Mod 1) and MR (Mod 3); and*
- (b) in accordance with the conditions of this approval, Project Layout Plan and the Statement of Commitments.*

Compliance Statement

Noted.

2.3.3 Schedule 2 – Condition 3 (Terms of Approval)

Condition

If there is any inconsistency between the documents in condition 2(a), the most recent document shall prevail to the extent of the inconsistency. However, the conditions of this approval shall prevail to the extent of any inconsistency.



Compliance Statement

Noted.

2.3.4 Schedule 2 – Condition 4 (Terms of Approval)

Condition

The Proponent must comply with any written requirement/ s of the Secretary arising from the Department's assessment of:

- (a) any strategies, plans, programs, reviews, audits, reports or correspondence that are submitted in accordance with this approval (including any stages of these documents);*
- (b) any reviews, reports or audits undertaken or commissioned by the Department regarding compliance with this approval;*
- (c) and the implementation of any actions or measures contained in these documents.*

Compliance Statement

Section 1.3 provides a summary of comments arising from a review of the 2022 AEMR and outlines the how these comments were addressed by LCC in the reporting period.

2.3.5 Schedule 2 – Condition 5 (Terms of Approval)

Condition

By 30 June 2010, the Proponent shall surrender development consent DA 95/239 to the relevant consent authority to the satisfaction of the Secretary.

Compliance Statement

Completed prior to reporting period.

2.3.6 Schedule 2 – Condition 5A (Terms of Approval)

Condition

Within 12 months of the date of commencement of development under this consent, or other timeframe agreed by the Secretary, the Proponent must surrender development consent DA90/341 to the satisfaction of the Secretary, in accordance with the EP&A Regulation.

Compliance Statement

Completed prior to reporting period.

2.3.7 Schedule 2 – Condition 6 (Limits on Approval)

Condition

The Proponent may carry out quarrying operations and Asphalt plant operations on the site until 31 December 2039.



Note: Under this approval, the Proponent is required to rehabilitate the site and carry out additional requirements and undertakings to the satisfaction of the Secretary. Consequently, this approval will continue to apply in all respects other than the right to conduct quarrying operations until the rehabilitation of the site and those requirements and undertakings have been carried out to the standard required by the applicable conditions.

Compliance Statement

Noted. The requirement for rehabilitation is not applicable to the current stage of development.

2.3.8 Schedule 2 – Condition 7 (Limits on Approval)

Condition

The Proponent must not undertake quarrying operations below 55 m AHD in the northern pit or 105 m AHD in the southern pit.

Note: Drainage sumps may be constructed below this level with the agreement of the Secretary.

Compliance Statement

Noted. LCC advises that quarry operations did not extend below the nominated levels in 2023.

2.3.9 Schedule 2 – Condition 8 (Limits on Approval)

Condition

The Proponent must not:

- (a) transport more than 600,000 tonnes of quarry materials from the site per calendar year; or*
- (b) transport more than 50,000 tonnes of asphalt from the site per calendar year;*
- (c) dispatch more than 120 laden trucks from the site on any calendar day prior to the completion of intersection upgrade required by Condition 21(f) of Schedule 3 to the satisfaction of TfNSW; and*
- (d) dispatch more than 150 laden trucks from the site on any calendar day following completion of the intersection upgrade required by Condition 21(f) of Schedule 3 to the satisfaction of TfNSW.*

Note: Dispatch of laden trucks is also controlled under condition 1 of Schedule 3.

Compliance Statement

- (a) Sale production tonnages have been provided in the Extractive Materials Return for the 2022/2023 financial year at **Appendix D** and in the Quarry Production Summary for the 2023 calendar year at **Appendix E**. The total annual quantities reported are 196,635.89 tonnes and 185,179.46 tonnes respectively. Both quantities are lower than the 600,000 tonnes per calendar year permitted by Schedule 2 Condition 8.*
- (b) Asphalt tonnages are provided in the Asphalt Sales Summary at **Appendix F**. 36,864.23 tonnes of asphalt were transported from the site in the reporting period. This quantity is lower than the permitted mass of 50,000 tonnes as stated in Schedule 2 Condition 8.*

- (c) **Appendix G** contains a schedule of daily laden truck movements from the Quarry. Yellow cells in the schedule represent weekly totals. A summary of the laden truck movements is provided in **Table 2.1**. Less than 120 trucks were dispatched per day throughout the monitoring period.

Table 2.1 2023 Laden Truck Movements

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Highest number of trucks/day	34	65	99	67	77	61	47	44	61	57	54	71
Average number of trucks/day	11.8	22.6	43.1	27.8	40.5	28.7	17.0	23.3	24.3	24.0	23.3	24.0
Total number of trucks/month	295	543	1164	584	1094	717	441	628	633	600	606	576

2.3.10 Schedule 2 – Condition 9 (Structural Adequacy)

Condition

The Proponent must ensure that all new buildings and structures, and any alterations or additions to existing buildings and structures, are constructed in accordance with the relevant requirements of the BCA.

Notes:

- *Under Part 4A of the EP&A Act, the Proponent is required to obtain construction and occupation certificates for any proposed building works;*
- *Part 8 of the EP&A Regulation sets out the requirements for the certification of the project.*

Compliance Statement

Noted. LCC advises that no structures were constructed or altered during the monitoring period.

2.3.11 Schedule 2 – Condition 10 (Demolition)

Condition

The Proponent must ensure that all demolition work is carried out in accordance with Australian Standard AS 2601-2001: The Demolition of Structures, or its latest version.

Compliance Statement

Noted. LCC advises that no demolition works were undertaken in 2023.



2.3.12 Schedule 2 – Condition 11 (Protection of Public Infrastructure)

Condition

Protection of Public Infrastructure

Unless the Proponent and the applicable authority agree otherwise the Proponent must:

- (a) repair, or pay the full costs associated with repairing, any public infrastructure that is damaged by the project; and*
- (b) relocate, or pay the full costs associated with relocating, any public infrastructure that needs to be relocated as a result of the project.*

Note: This condition does not apply to damage to roads caused as a result of general road usage or otherwise addressed by contributions required by Condition 13 of Schedule 2.

Compliance Statement

Noted. LCC advises that there was no damage to public infrastructure as a result of the operation.

2.3.13 Schedule 2 – Condition 12 (Operation of Plant and Equipment)

Condition

The Proponent must ensure that all the plant and equipment used at the site, or to monitor the performance of the project is:

- (a) maintained in a proper and efficient condition; and*
- (b) operated in a proper and efficient manner.*

Compliance Statement

Maintenance of plant and equipment is undertaken by Council mechanics and contracted fleet suppliers. Environmental monitoring is completed by contractors. A condition of engagement requires that a regular maintenance program is completed for all monitoring equipment.

2.3.14 Schedule 2 – Condition 13 (Section 94 Contributions)

Condition

The Proponent must pay Council an annual financial contribution toward the maintenance of local roads used for haulage of quarry products. The contribution must be determined in accordance with the Lismore City Council Section 94 Contribution Plan, 2004, or any subsequent relevant contributions plan adopted by Council.

It is noted that on 1 March 2018, Section 94 of the EP&A Act was renumbered to Section 7.11.

Compliance Statement

In accordance with the LCC Section 94 Contribution Plan (2014), Section 7.11 contributions are paid to LCC monthly based on a fee for each tonne of extractive resource leaving the Quarry by road transport. **Appendix H** provides a report of the monthly payments made during the reporting period.

2.3.15 Schedule 2 – Condition 14 (Production Data)

Condition

The Proponent must:

- (a) *from the commencement of quarrying operations provide calendar year annual quarry production data to MEG using the standard form for that purpose; and*
- (b) *include a copy of this data in the Annual Review.*

Compliance Statement

Annual Quarry production data for the 2022/ 2023 financial year was provided to Mining, Exploration and Geoscience within the Department of Regional NSW using Standard Form S1 on 29 November 2023. A copy of the Extractive Materials Return is provided at **Appendix D**. While this provides some indication of quarry production data throughout the 2022/ 2023 financial year, Schedule 2 Condition 14 requires that annual quarry production data must be provided for the calendar year. Due to the nature and volume of the material being extracted, Standard Form S1 is required for submission for every financial year. Noting this, **Table 2.2** presents annual quarry production by both calendar year and financial year for the current and previous five reporting periods, as recorded by Quarry Production Summaries and Extractive Minerals Returns. The Quarry Production Summary for the 2023 calendar year is presented at **Appendix E**.

Operational Summary

Table 2.2 Annual Quarry Production Data Q2 2018 - Q4 2023

	2018	2019	2020	2021	2022	2023
Calendar Year (tonnes)	201,999.6	121,983.32	52,711.05	149,999	178,420.54	185,179.46
Financial Year (tonnes)	182,766	126,096.49	174,977.13	185,339.15	196,635.89	

2.3.16 Schedule 2 – Condition 15 (Compliance)

Condition

The Proponent must ensure that all employees, contractors and sub-contractors are aware of, and comply with, the conditions of this approval relevant to their respective activities.

Compliance Statement

LCC advises that the induction process for employees, contractors, subcontractors and visitors includes, among other environmental performance related matters, the identification of relevant Conditions of Approval as they apply to specific work elements.



2.3.17 Schedule 2 – Condition 16 (Identification of Boundaries)

Condition

The Proponent must ensure that the boundaries of the approved limits of extraction are clearly marked at all times in a permanent manner that allows operating staff and inspecting officers to clearly identify those limits.

Compliance Statement

LCC advises that boundaries are marked physically with large white pegs and digitally using GIS mapping.

2.4 Schedule 3 – Specific Environmental Conditions

2.4.1 Schedule 3 – Condition 1 (Hours of Operation)

Condition

The Proponent must comply with the operating hours set out in Table 1.

Table 1: Operating hours	
Activity	Permissible Hours
Quarrying operations, asphalt plant operations and loading and dispatch of laden trucks	7 am to 6 pm Monday to Friday
	7 am to 3 pm Saturday
	At no time on Sundays or public holidays
Blasting	10 am to 3 pm Monday to Friday (except public holidays)
	At no time on Sundays or public holidays
Maintenance	May be conducted at any time, provided that these activities are not audible at any privately-owned residence

Compliance Statement

The following observations are made with respect to hours of operation of the Quarry:

(a) The Quarry opening hours are advertised on the LCC website as follows:

- 7 am – 4 pm Monday to Thursday
- 7 am – 3.30 pm Friday

The opening hours are compliant with the permissible operating hours for the premises. The dispatch of laden trucks occurred outside permissible hours several times within the reporting period (refer to **Section 2.4.3**). This was done in accordance with an approved Out of Hours Work Protocol (OHWP).


- (b) Blasting occurred on five days during the reporting period. All blasting events were compliant with the permissible blasting hours for the premises.
- (c) LCC advised that maintenance was not known to be audible at any privately-owned residence during the monitoring period.

2.4.2 Schedule 3 – Condition 2 (Hours of Operation)

Condition

The following activities may be carried out outside the hours specified in condition 1 above:

- (a) *delivery or dispatch of materials as requested by Police or other public authorities; and*
- (b) *emergency work to avoid the loss of lives, property or to prevent environmental harm.*



In such circumstances, the Proponent must notify the Secretary and affected residents prior to undertaking the activities, or as soon as is practical thereafter.

Compliance Statement

LCC advises that the dispatch of asphalt was requested by various public authorities at several times throughout the monitoring period. An administrative non-compliance occurred during the monitoring period with regard to out-of-hours dispatch (refer to **Section 2.4.3**).

2.4.3 Schedule 3 – Condition 2A (Hours of Operation)

Condition

With the prior written agreement of the Secretary, the Proponent may undertake limited campaign asphalt plant operations (within the limits imposed under condition 8 of Schedule 2) outside of the operating hours prescribed in condition 1 of this Schedule, as requested by public authorities.

In such circumstances, the applicant must prepare an Out of Work Hours Work Protocol. This protocol must:

- (a) *be prepared in consultation with the EPA and any residents who may be affected by the noise generated by these works; and*
- (b) *be approved by the Secretary prior to the commencement of any out of hours Asphalt plant operations.*

Compliance Statement

- (a) An OHWP (Ardill Payne & Partners, 2021) was prepared prior to the reporting period in consultation with the EPA and nearby residents.
- (b) Initial approval was given in writing by the Planning Secretary on 15 February 2022 to allow Blakebrook Quarry to operate the Asphalt Plant and dispatch laden trucks outside of the operating hours in Schedule 3 Condition 1 under an OHWP, pending approval of a Noise and Blast Management Plan (NBMP). The updated NBMP (2022) was approved by the Planning Secretary on 20 October 2022.

The hours of operation covered by the OHWP are 6 pm – 7 am Monday to Sunday. This is anticipated to occur approximately five nights per month.

Records of out-of-hours laden truck movements indicate that the recorded laden truck movements occurred in accordance with the approved hours of operation within the OHWP or approval by the Secretary. During the reporting period, the Quarry was requested to supply Transport for NSW with asphalt for emergency repair works on the Bruxner Highway and Lismore-Bangalow Road. Due to high traffic volumes, night work was considered to be the most appropriate time to undertake works. In order to facilitate this, the Quarry requested to operate the Asphalt Plant ten nights per month between May and June 2023. Approval was granted by the DPE on 19 May 2023.

In accordance with Section 3.3 of the OHWP, the Asphalt Plant operator is required to notify LCC, the EPA, and local residents of the timing and expected duration of any out-of-hours construction works at least seven days prior to the commencement of any activities. On 13 November 2023, LCC received notification from the Asphalt Plant operator of a non-compliance with the Out of Hours Work Protocol notification process, whereby LCC were not informed of out-of-hours work that had been undertaken on the following dates:

- 30 July 2023;
- 17 September 2023;
- 8 October 2023;
- 9 October 2023;
- 10 October 2023; and
- 11 October 2023.

Subsequently, failure to notify LCC led to failure to notify the EPA. An internal investigation identified that a high staff turnover within the Asphalt Plant exposed knowledge gaps with the OHWP process during the transition period. Following the incident, the Asphalt Plant operator revised and updated their company policies in an attempt to mitigate any further non-compliance. These updates comprised the following:

- The OHWP, EPL 3384, and Project Approval MP07 0020 documentation is to be kept at the Asphalt Plant and Goonellabah Downer office for easy reference.
- Daily work schedules are to be reviewed with any out of hours work flagged in the company forward work program to highlight planning and notification requirements.
- Development of a Succession Plan for key operational staff which includes the OHWP, EPL 3384, and Project Approval MP07 0020, to ensure transfer of knowledge and learning opportunities are maximised.
- Update of the company induction procedure to include the OHWP, EPL 3384 and Project Approval MP07 0020 as relevant to the Asphalt operations.
- Annual review of company procedures with updates and staff training undertaken at the beginning of each year to ensure staff are kept up to date with company requirements.

LCC was made aware of this non-compliance on 13 November 2023 following discussions with the Asphalt Plant Operator. This incident of non-compliance was self-notified to the DPE and EPA on 16 November 2023 (refer to **Appendix I**). Nearby residents were given seven days' notice of the works. The incident was not subject to any complaints. The incident is still under investigation by the DPHI.

2.4.4 Schedule 3 – Condition 3 (Noise)

Condition

The Proponent must ensure that the noise generated by the project does not exceed the criteria in Table 2 at any residence on privately-owned land.

Table 2: Noise criteria dB(A)

Receiver	Day <i>L_{Aeq} (15 minute)</i>
Location 2 and Location 7	36
All other locations	35

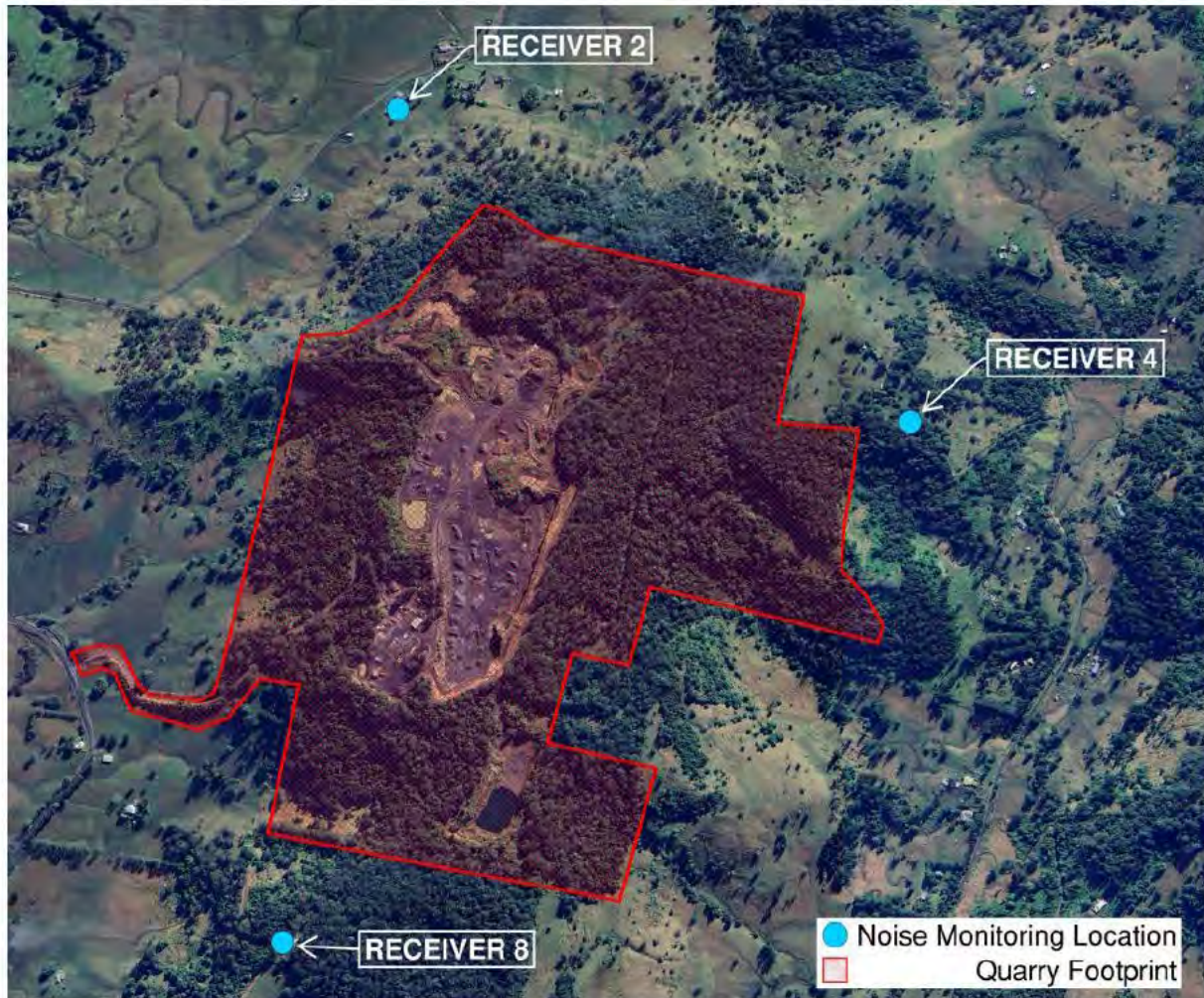
Noise generated by the project is to be measured in accordance with the relevant requirements and exemptions (including certain meteorological conditions) of the NSW Industrial Noise Policy. Appendix 5 sets out the meteorological conditions under which these criteria apply and the requirements for evaluating compliance with these criteria.

However, the noise criteria in Table 2 do not apply if the Proponent has an agreement with the relevant landowner to exceed the noise criteria, and the Proponent has advised the Department in writing of the terms of this agreement.

Compliance Statement

On 7 and 14 June 2023, Ambience Audio Services conducted an annual noise monitoring for the Quarry and Asphalt Plant. This assessment is provided within **Appendix J**. Noise monitoring was conducted with the Quarry and Asphalt Plant operating under normal load conditions and suitable weather conditions. Monitoring was undertaken at the three primary receiver locations (Receivers 2, 4, 8). **Illustration 2.1** provides the locations at which noise was monitored. As per the NBMP (2022), the utilisation of primary monitoring locations during noise compliance monitoring is considered representative in determining compliance with Schedule 3 Condition 3.

Illustration 2.1 Noise Monitoring Locations



Noise monitoring was undertaken in the daytime during the operational hours of the Quarry and Asphalt Plant, as well as in the evening and night-time. A summary of monitoring results, as well as those from the previous four years, along with levels predicted in the 2019 Noise Assessment (Assured Environmental, 2019) are presented in **Table 2.3**.

Table 2.3 Summary of Noise Monitoring Results 2019-2023

Receiver	2019 ^{1,2}	2020 ^{1,2}	2021 ^{1,2}	2022 ^{1,2}	2023 ^{1,2}	Site specific criteria ¹	Predicted Level ³
2	<30	<30	<35	<30	<30	<36	36
4	<30	<25	<33	<35	<32	<35	34
8	31-33	<35	<35	<35	33-40	<35	36

Notes to Table 2.3

1. dB(A) LAeq (15 minute).
2. Ambient noise prevented an accurate assessment of quarry noise. The figure is an estimate based on site measurements and observations.
3. Predicted level as outlined in 2019 NIA.

The assessment provides a summary of noise monitoring results:

"The quarry operations were not audible at Receiver 2 during the day, evening and night time periods... It is estimated quarry operations at Receiver 4 are below 32 dB(A) LAeq,15min for calm meteorological conditions... The measured noise levels at Receiver 8 exceeded the day, evening and night time noise limit criteria of 35dB(A) LAeq,15min. The asphalt plant was identified as the contributor to the exceedances. The exceedances were 5.6 decibels for the day time, 0.3 decibels for the evening, and 2.3 decibels for the night time. It was noted that Receiver 8 was downwind of the asphalt plant for each of the monitoring periods and the main reason for the exceedances."

LCC was made aware of this non-compliance on 27 June 2023 following completion of the noise assessment. This non-compliance was self-reported to the DPE on 4 July 2023 (refer to **Appendix K**). In addition, the assessment provided the following recommendations:

"It is recommended that the fans at the asphalt plant be operated at the minimum safe fan speed when there is a northerly breeze."

It is recommended to investigate if quieter fans are available when the asphalt fans are due to be replaced in the next 3 to 4 months.

It is recommended a noise assessment be conducted after the installation of fans to ensure the asphalt plant operations comply with the noise criteria.

Receiver 8 is close to the southern cell. It is recommended that noise monitoring be conducted at Receiver 8 when work in the southern cell is undertaken, to assess the noise impact at Receiver 8."

To address the exceedances of noise, new fans were installed on the Asphalt Plant. Following installation, supplementary monitoring of noise was undertaken by Ambience Audio Services on 22 and 23 August (refer to **Appendix L**). The supplementary monitoring was undertaken under suitable weather conditions, with the Quarry and Asphalt Plant operating under normal load conditions. Results of supplementary noise monitoring are provided in **Table 2.4**. Following fan upgrades, the noise from the Quarry and Asphalt Plant is compliant with the criteria as described by Schedule 3 Condition 3.

Table 2.4 Comparison of noise levels before and after Asphalt Plant fan upgrades.

Receiver	2023 Primary (before) ^{1,2}	2023 Supplementary (after) ^{1,2}	Site specific criteria ¹	Predicted Level ³
2	<30	<30	<36	36
4	<32	<30	<35	34
8	33-40	30-35	<35	36

1. dB(A) LAeq (15 minute).
2. Ambient noise prevented an accurate assessment of quarry noise. The figure is an estimate based on site measurements and observations.
3. Predicted level as outlined in 2019 Noise Assessment (Assured Environmental, 2019).

The supplementary noise assessment stated that:

"The resident at Receiver 8 noted that they do hear the quarry, but generally does not bother them. The resident noted that occasionally reversing beepers were audible."



It is recommended that all operations are designed so that external vehicles operating near the asphalt plant and weighbridge areas are required to only travel in the forward direction.

Receiver 8 is close to the southern cell. It is recommended that noise monitoring be conducted at Receiver 8 when work in the southern cell is undertaken, to assess the noise impact at Receiver 8.”

Following receipt of the recommendations within the supplementary noise assessment, the Asphalt Plant Operator made an amendment to traffic flow during campaign works or out-of-hours work to favour forward movement of traffic, thereby reducing noise from reversing vehicles.

Identified Trends

Ambient noise has prevented an accurate measurement of Quarry and Asphalt Plant noise within the five most recent monitoring periods. The increase in noise during the monitoring period was identified as potentially being attributable to the production of hot mix asphalt, or potentially aging manufacturing components. The replacement of fans at the Asphalt Plant contributed to a measurable reduction in noise generated from the Quarry.

Comparison with Predicted Impact

A 2019 Noise Assessment (Assured Environmental, 2019) modelled predicted noise impacts for the expanded quarry operation that were compliant with the site-specific criteria at all locations, except Receiver 8 (referred to as Receptor 7 in the Noise Assessment). The NBMP (2022) states, however, that:

“For this receptor, the results of the noise modelling indicate that an exceedance of up to 1 dB is possible for the expanded operations. In practical terms, this level of exceedance is considered to be insignificant with most people unable to discern a difference in noise levels of less than 1 dB. Furthermore, the predicted noise levels are noted to be well below existing baseline noise levels measured in the area.”

An assessment of noise monitoring results from the 2023 reporting period suggest that quarry and asphalt noise as heard at Receiver 8 exceeded the criteria of Condition 3 of Schedule 3 by approximately 5 dB, which is not within the predicted increase of noise (1 dB) as described in the 2019 NIA.

2.4.5 Schedule 3 – Condition 4 (Operating Conditions)

Condition

The Proponent must:

- (a) implement best practice management to minimise the construction, operational and road transportation noise of the project;*
- (b) minimise the noise impacts of the project during meteorological conditions when the noise criteria in this approval do not apply (see Appendix 5);*
- (c) carry out noise monitoring (at least every 3 months or as otherwise agreed with the Secretary) to determine whether the project is complying with the relevant conditions of this approval; and*
- (d) regularly assess noise monitoring data and modify and/ or stop operations on site to ensure compliance with the relevant conditions of this approval, to the satisfaction of the Secretary.*

Note: Required frequency of noise monitoring may be reduced if approved by the Secretary.



Compliance Statement

As per the NBMP, the following monitoring and mitigation measures are in place:

- (a) All significant noise generating plant and equipment is to be procured, maintained and managed to reduce, with mitigation to be applied where feasible, reasonable and necessary. Details of proposed mitigation measures are detailed in Section 6.3 of the NBMP.
- (b) Meteorological parameters will be evaluated prior to undertaking works on site to gain an understanding of the weather conditions and the potential for variations in noise levels.
- (c) Noise monitoring shall be conducted every six months to represent winter and summer conditions. This monitoring will be reported against criteria in Schedule 3 Condition 3 of the Conditions of Approval. Upon receipt of each round of monitoring results a suitably qualified person will review results and report any identified exceedances where required.
- (d) Noise monitoring data will be used to guide the daily planning of quarrying operations. Additionally, upon receipt of a complaint regarding noise or vibration, the Quarry Manager will stop works that have the potential to impact further.

2.4.6 Schedule 3 – Condition 5 (Noise Management Plan)

Condition

The Proponent must prepare a Noise Management Plan for the project to the satisfaction of the Secretary. This plan must:

- (a) *be prepared in consultation with the EPA;*
- (b) *be submitted to the Secretary within 3 months of the determination of Modification 1, unless otherwise agreed by the Secretary;*
- (c) *describe the measures to be implemented to ensure:*
 - *compliance with the noise criteria and operating conditions of this approval;*
 - *best practice management is being employed; and*
 - *the noise impacts of the project are minimised during meteorological conditions under which the noise criteria in this approval do not apply (see Appendix 5);*
- (d) *describe the proposed noise management system; and*
- (e) *include a monitoring program to be implemented to measure noise from the project against the noise criteria in Table 2.*

The Proponent must implement the Noise Management Plan as approved from time to time by the Secretary.

Compliance Statement

The NBMP (Rev 4.1) was updated and approved by the Planning Secretary on 20 October 2022 and contains sufficient content to comply with this condition.

2.4.7 Schedule 3 – Condition 6 (Blasting Impact Assessment Criteria)

Condition

The Proponent must ensure that blasting on site does not cause any exceedance of the criteria in Table 3.

Table 3: Blasting Criteria			
<i>Receiver</i>	<i>Airblast overpressure (dB(Lin Peak))</i>	<i>Ground vibration (mm/s)</i>	<i>Allowable exceedance</i>
<i>Any residence on privately-owned land</i>	120	10	0%
	115	5	5% of the total number of blasts over a period of 12 months

However, these criteria do not apply if the Proponent has a written agreement with the relevant owner to exceed the limits in Table 3, and the Proponent has advised the Department in writing of the terms of this agreement.

Compliance Statement

Blasting occurred on five occasions during the reporting period:

- 7 February 2023;
- 16 March 2023;
- 4 April 2023;
- 2 May 2023; and
- 26 October 2023.

Formal blast monitoring occurring at the following primary locations (refer to **Illustration 2.2**):

- Receiver 2: [REDACTED] Keerong Road, Blakebrook.
- Receiver 4: [REDACTED] Booerie Creek Road, Booerie Creek.
- Receiver 8: [REDACTED] Nimbin Road, Blakebrook.
- Additional residence: [REDACTED] Keerong Road, Keerong.

A summary of the blast monitoring results is provided in **Table 2.5**, and the complete blast reports are provided at **Appendix M**.

A review of the blast monitoring results during the reporting period indicates that airblast overpressure and ground vibration was below the allowable criteria as stated in Schedule 3 Condition 6 for all blasting events.



Illustration 2.2 Blast monitoring locations

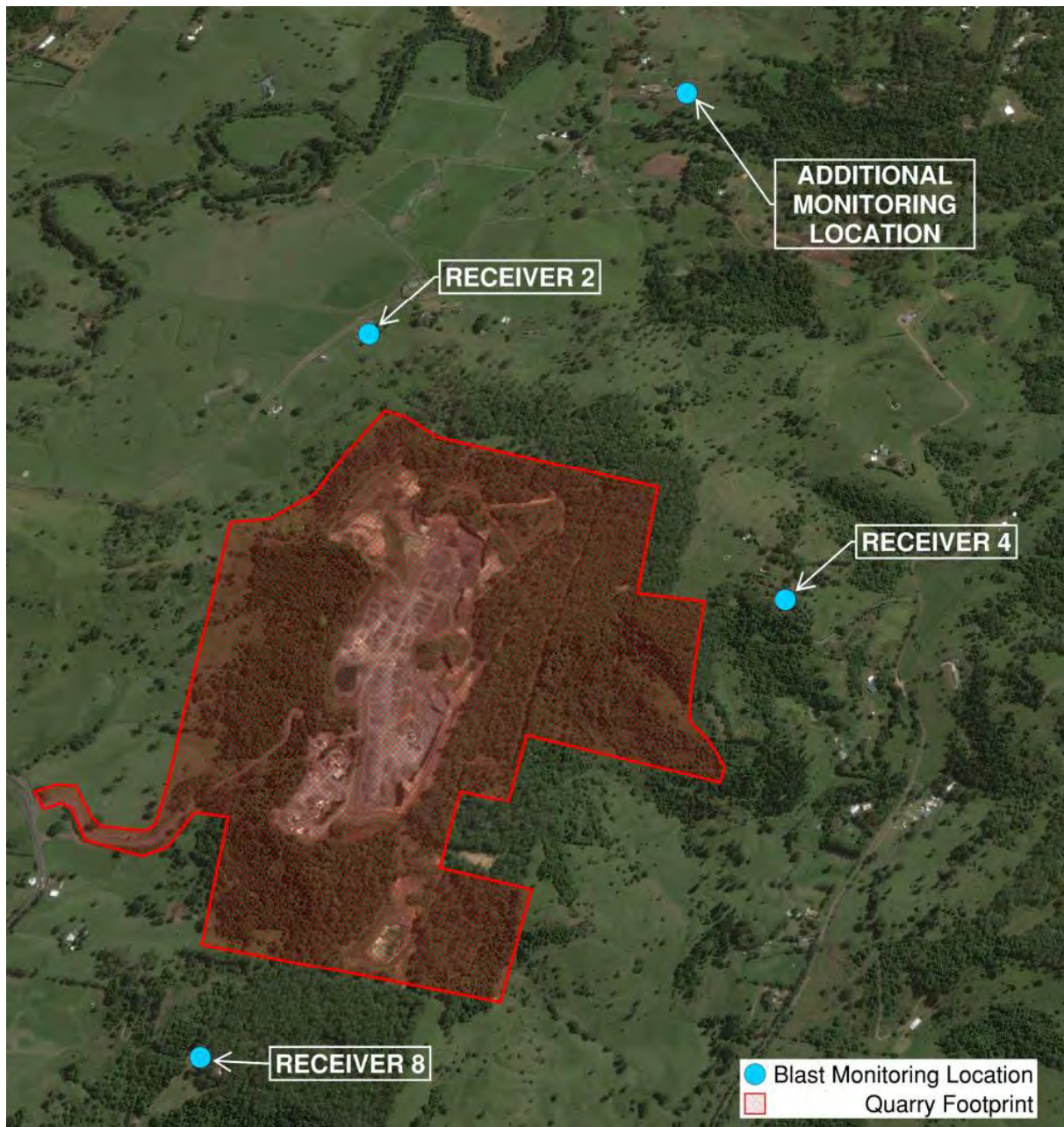


Table 2.5 Blast Monitoring Results additional residence

Date	Monitoring location	Airblast Overpressure (dB(Lin Peak))		Ground Vibration (mm/s)	
		Result	Limit	Result	Limit
7 February	Receiver 2	Not Triggered ¹	115	Not Triggered ¹	5
	Receiver 4	Not Triggered ¹	115	Not Triggered ¹	5
	Receiver 8	98.8	115	1.651	5
	Keerong Road	Not Triggered ¹	115	Not Triggered ¹	5
16 March	Receiver 2	100.3	115	2.06	5
	Receiver 4	100.0	115	2.032	5
	Receiver 8	Not Triggered ¹	115	Not Triggered ¹	5
	Keerong Road	<88	115	0.21	5
4 April	Receiver 2	<88	115	0.914	5
	Receiver 4	100	115	1.778	5
	Receiver 8	Not Triggered ¹	115	Not Triggered ¹	5
	Keerong Road	104.4	115	3.421	5
2 May	Receiver 2	95.3	115	0.497	5
	Receiver 4	102.8	115	0.762	5
	Receiver 8	<88	115	0.889	5
	Keerong Road	Not Triggered ¹	115	Not Triggered ¹	5
26 October	Receiver 2	<88	115	2.546	5
	Receiver 4	102.5	115	2.128	5
	Receiver 8	94	115	0.635	5
	Keerong Road	Not Triggered ¹	115	Not Triggered ¹	5

Note to Table 2.4:

1 Below trigger set for monitor (airblast overpressure: 110 dB; ground vibration : 0.5 mm/s)

Identified Trends

Yearly maximums of measured airblast overpressure between 2016-2023 are presented in **Table 2.6**. An analysis of the previous years' results suggests that there is no noticeable trend with regards to airblast overpressure at Receivers 4 and 8.

Table 2.6 Yearly Maximum Airblast Overpressure 2016-2022

	Yearly Maximum Airblast Overpressure (dB(Lin Peak)) ¹						
	2016	2017	2018	2020	2021	2022	2023
Receiver 2						112	100.3
Receiver 4	108.4	109.5	104.9	103	N/A ³	108.3	102.8
Receiver 8	114.8	109.9	98.8	109	113.3	110.6	98.8

Notes to Table 2.5:

1. No blasting occurred in 2019.
2. Location 2 was not monitored prior to 2022.
3. Location 4 was not monitored in this reporting period.

Yearly maximums of measured ground vibration between 2016-2023 are presented in **Table 2.7**. An analysis of the previous years' results, suggest that there is no noticeable trend with regards to ground vibration at Receivers 4 and 8.

Table 2.7 Yearly Maximum Ground Vibration 2016-2022

	Yearly Maximum Ground Vibration (PPV(mm/s)) ¹						
	2016	2017	2018	2020	2021	2022	2023
Receiver 2						4.953	2.546
Receiver 4	1.73	2.04	2.5	2	N/A ³	<1	2.128
Receiver 8	1.86	1.18	0.51	4.0	2.72	7.71 ⁴	1.651

Notes to Table 2.6:

1. No blasting occurred in 2019.
2. Receiver 2 was not monitored prior to 2022.
3. Receiver 4 was not monitored in this reporting period.
4. Monitoring equipment was found to be incorrectly installed for this monitoring event.

Comparison with Predicted Impact

An indicative assessment of the impacts of blasting was undertaken by ERM in 2009. Vibration and overpressure levels for the Quarry were found to be within the accepted guidelines for nearby receivers, provided that blasting operations were carefully designed and monitored.

2.4.8 Schedule 3 – Condition 7 (Blasting Frequency)

Condition

The Proponent may carry out a maximum of 2 blasts per month unless an additional blast is required following a blast misfire. This condition does not apply to blasts required to ensure the safety of the quarry or workers on site.

Note: For the purposes of this condition, a blast refers to a single blast event, which may involve a number of individual blasts fired in quick succession in a discrete area of the quarry.

Compliance Statement

Five blasts occurred during the reporting period:

- 7 February 2023;
- 16 March 2023;
- 4 April 2023;
- 2 May 2023; and
- 26 October 2023.


All blasts occurred within the frequency specified in Schedule 3 Condition 7.

2.4.9 Schedule 3 – Condition 8 (Operating Conditions)

Condition

During blasting operations, the Proponent must:

- (a) *implement best practice management to: protect the safety of people and livestock; protect public or private infrastructure and property from damage; and minimise the dust and fume emissions;*
- (b) *operate a suitable system to enable the local community to get up-to-date information on the proposed blasting schedule on site; and*

- 
- (c) *carry out regular monitoring to determine whether the project is complying with the relevant conditions of this approval, to the satisfaction of the Secretary.*

Compliance Statement

- (a) As per page 13 of the Explosive Control Plan (ECP) (Northern Rivers Quarry, 2022):
“All plans are to be developed by the Drill and Blast team in consultation with the Quarry Operations Coordinator and Shotfirer and are to include measures to manage fly rock to ensure the safety of people and livestock and to protect property.”
- (b) As per Section 8.6 of the NBMP (2022):
“All sensitive receivers will be given at least 24 hours’ notice by phone when blasting is to be undertaken, unless otherwise stipulated by the EPL. Any Asphalt Out of Hours campaign work will be notified in writing to LCC, EPA and local residents at least 7 working days prior to works being undertaken.”
- (c) As per Section 7.3 of the NBMP (2022):
“Air blast overpressure and ground vibration monitoring will be undertaken during each blast event.”

Blasting undertaken on 16 March 2023 was the subject of a complaint (refer to **Appendix N**). The complainant stated that less than 24 hours’ notice had been given prior to commencement of blasting activities. An internal investigation (refer to **Appendix O**) was undertaken and identified that sensitive receivers had been contacted between 2:30 pm - 3:12 pm on 15 March 2023, with the blast executed at 12:15 pm on 16 March 2023. This provided sensitive receivers with between 21 - 22 hours’ notice. This administrative non-compliance was self-reported to the DPE and EPA on 20 and 21 March 2023 respectively.

2.4.10 Schedule 3 – Condition 9 (Blast Management Plan)

Condition

The Proponent must prepare a Blast Management Plan for the project to the satisfaction of the Secretary. This plan must:

- (a) *be submitted to the Secretary for approval within 3 months of the determination of Modification 1, unless otherwise agreed by the Secretary;*
- (b) *describe the measures to be implemented to ensure compliance with the blast criteria and operating conditions of this approval;*
- (c) *include measures to manage flyrock to ensure the safety of people and livestock and to protect property;*
- (d) *include a monitoring program for evaluating and reporting on compliance with the blasting criteria in this approval;*
- (e) *include local community notification procedures for the blasting schedule, in particular to nearby residences; and*
- (f) *include a protocol for investigating and responding to complaints related to blasting operations.*

The Proponent must implement the Blast Management Plan as approved from time to time by the Secretary.

Compliance Statement

The NBMP (2022) was updated and approved by the Planning Secretary in October 2022.

2.4.11 Schedule 3 – Condition 10 (Air Quality Impact Assessment Criteria)

Condition

The Proponent must ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the project do not cause exceedances of the criteria in Table 4 at any residence on privately-owned land.

Table 4: Air quality criteria

Pollutant	Averaging Period	Criterion	
Particulate matter < 10 µm (PM ₁₀)	Annual	a,d 25 µg/m ³	
Particulate matter < 10 µm (PM ₁₀)	24 hour	b 50 µg/m ³	
Total suspended particulates (TSP)	Annual	a,d 90 µg/m ³	
^c Deposited dust	Annual	^b 2 g/m ² /month	^{a,d} 4 g/m ² /month

Notes to Table 4:

- Cumulative impact (i.e. increase in concentrations due to the project plus background concentrations due to all other sources).*
- Incremental impact (i.e. increase in concentrations due to the project alone, with zero allowable exceedances of the criteria over the life of the project).*
- Deposited dust is to be assessed as insoluble solids as defined by Standards Australia, AS/NZS 3580.10.1:2003: Methods for Sampling and Analysis of Ambient Air – Determination of Particulate Matter - Deposited Matter - Gravimetric Method.*
- Excludes extraordinary events such as bushfires, prescribed burning, dust storms, sea fog, fire incidents or any other activity agreed by the Secretary.*
- “Reasonable and feasible avoidance measures” includes, but is not limited to, the operational requirements in conditions 11, 12 and 13 to develop and implement an air quality management system that ensures operational responses to the risks of exceedance of the criteria.*

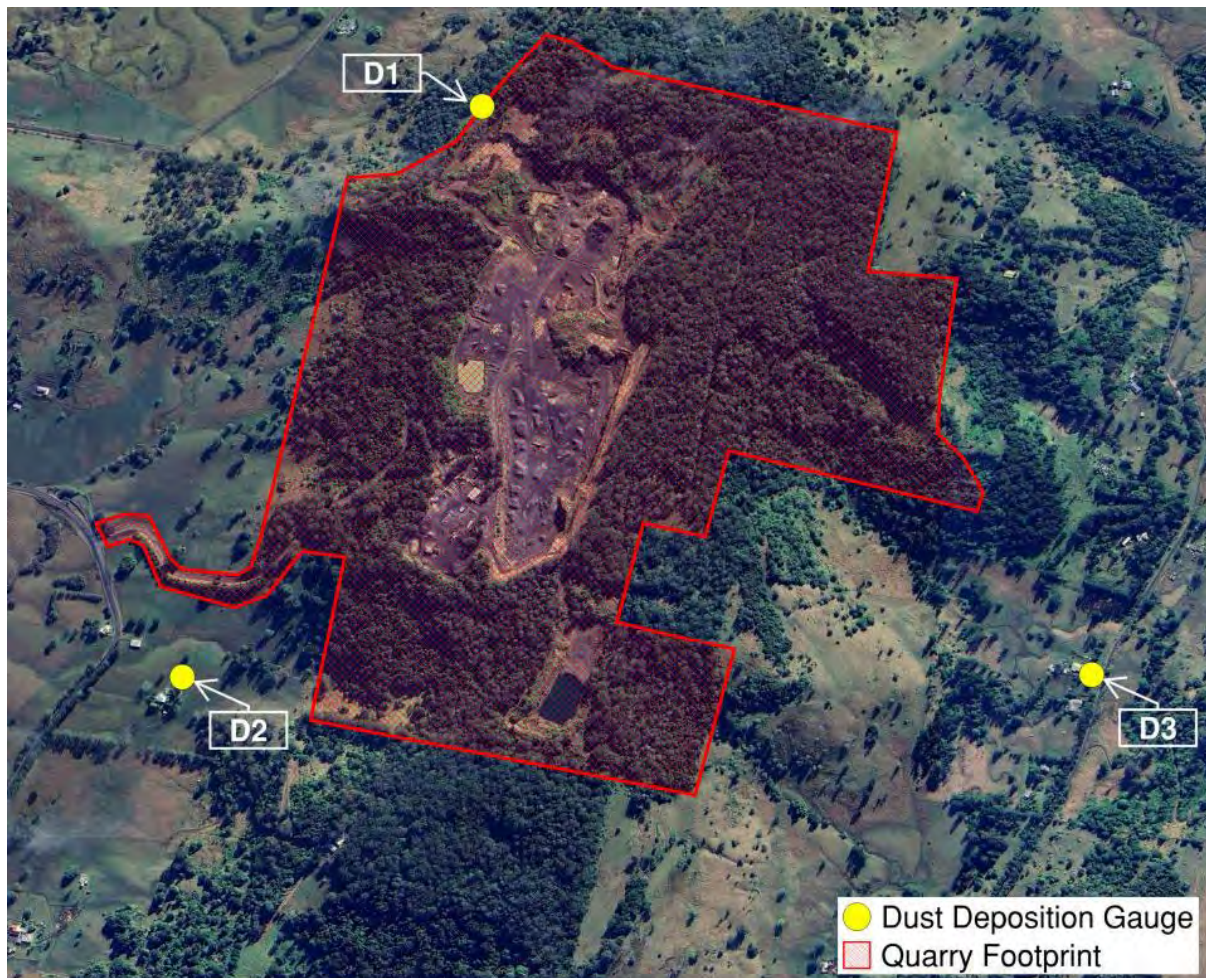
It is noted that AS/NZS 3580.10.1:2003 has been superseded by AS/NZS 3580.10.1:2016.

Compliance Statement

Deposited Dust Monitoring Results:

Dust deposition gauges are established at three sites around the Quarry to the north-west (D1), south-west (D2) and south-east (D3) (refer to **Illustration 2.3**).

Illustration 2.3 Dust Monitoring Locations



As per the Air Quality Management Plan: Revision 4.2 (AQMP) (2023), deposition gauges are to be replaced on a 30 ± 2 day cycle. Dust deposition gauge results from the monitoring period are provided at **Appendix P**. A review of this documentation indicates that monitoring was undertaken at the required frequency.

As per Section 8.5 of the AQMP (2023), the deposit rate of ash is used as an indicator of quarry dust contribution. This is to help differentiate the inorganic dust emanating from the quarry operation from other insoluble solids of organic origin (i.e., vegetation, bird droppings, dead insects, etc.).

Figure 2.1 to **Figure 2.3** present monthly ash deposition results for 2017 to 2023 with reference to the deposited dust limit. To provide an indication of dust deposition levels over a longer period of time, **Figure 2.4** to **Figure 2.6** present monthly total suspended solids deposition results for 2013 to 2023. Over the duration of the monitoring period, monthly results have varied. Higher dust deposition levels have typically been recorded at D2 and D3 compared with D1.

Using ash as an indicator of quarry dust, there were two instances of an exceedance of deposition rate criteria as stipulated by Schedule 3 Condition 10 (ash $> 4 \text{ g/m}^2/\text{month}$) for the reporting period at monitoring site D3:

- Exposure Period 18/09/2023 - 16/10/2023 – $10.3 \text{ g/m}^2/\text{month}$
- Exposure Period 11/12/2023 - 08/01/2024 – $9.3 \text{ g/m}^2/\text{month}$

LCC was made aware of these incidents of non-compliance on 26 October 2023 and 16 January 2024, respectively. These incidents were self-reported on 1 November 2023 (refer to **Appendix Q**)



and 23 January 2024 (refer to **Appendix R**), respectively. It is noted that, during the monitoring period, deposition gauge D3 was relocated closer to the unsealed Booerie Creek Road to address safety concerns regarding dogs and property access. During both exposure periods, the predominant winds were from the north and northeast. The Quarry is located to the northwest of the property. The exceedances were not associated with an increase in production or blasting activities. Operational staff were notified of the exceedance for their awareness. Air quality mitigation actions continued on site as per normal operations, including daily dust suppression for crushing activities, and the watering down of haul roads and trafficable areas. No complaints were received in regard to air quality during the monitoring period.

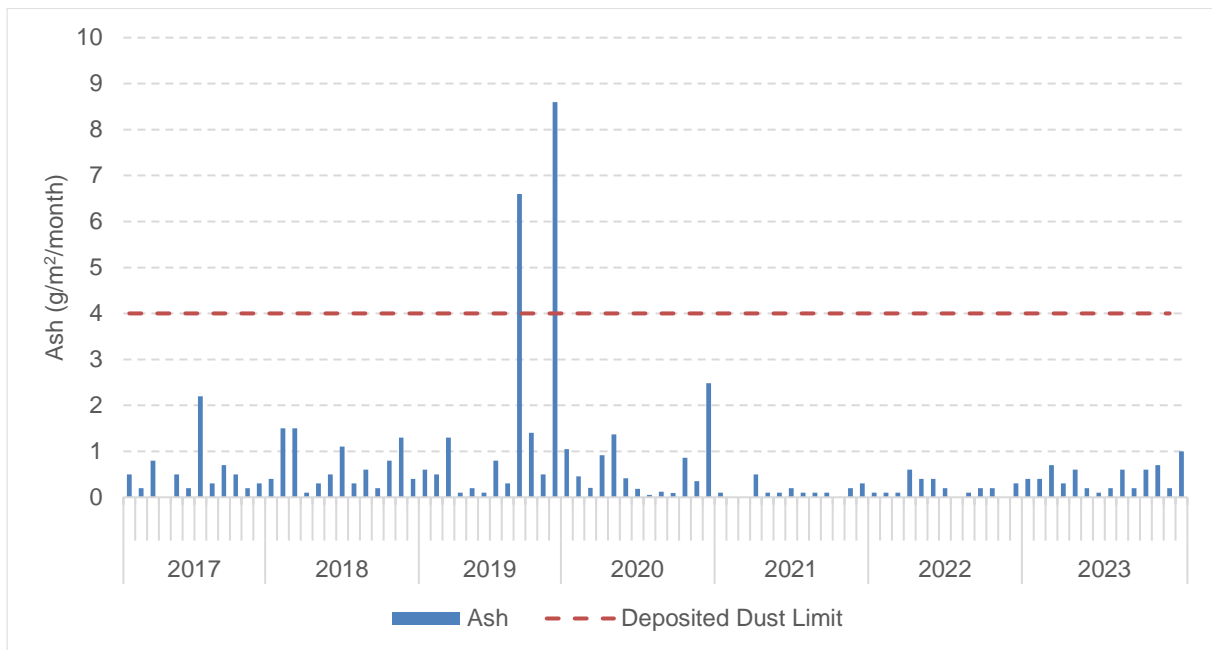


Figure 2.1 Monthly ash deposition results 2017-2023 for site D1

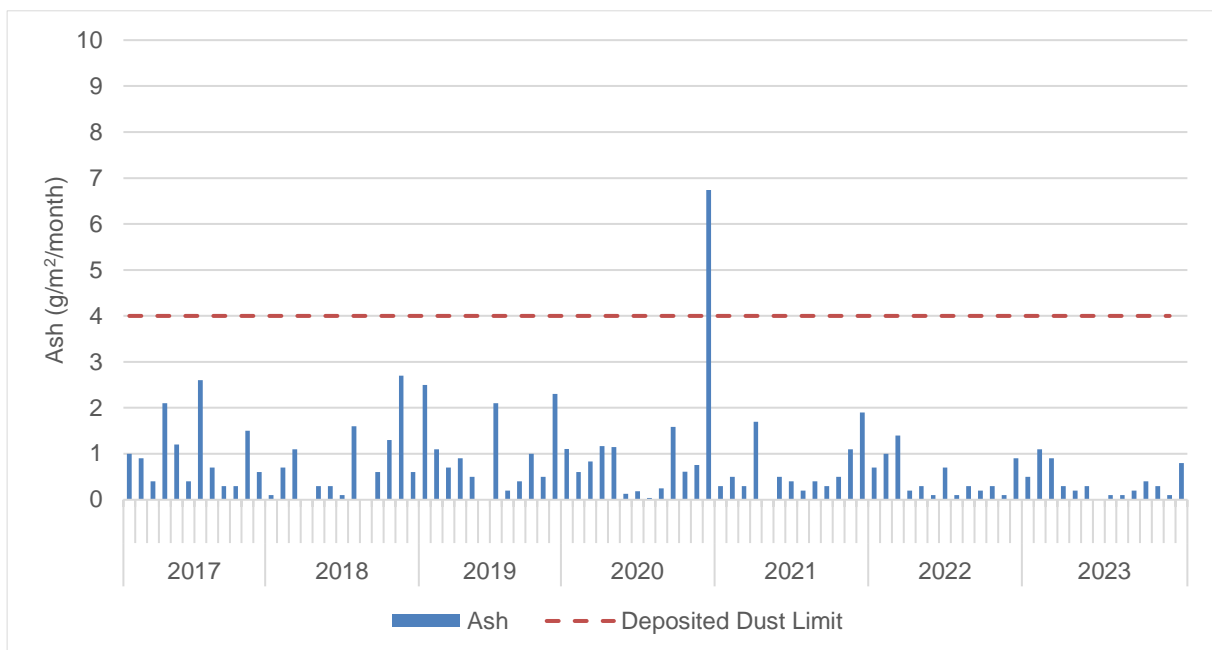


Figure 2.2 Monthly ash deposition results 2017-2023 for site D2

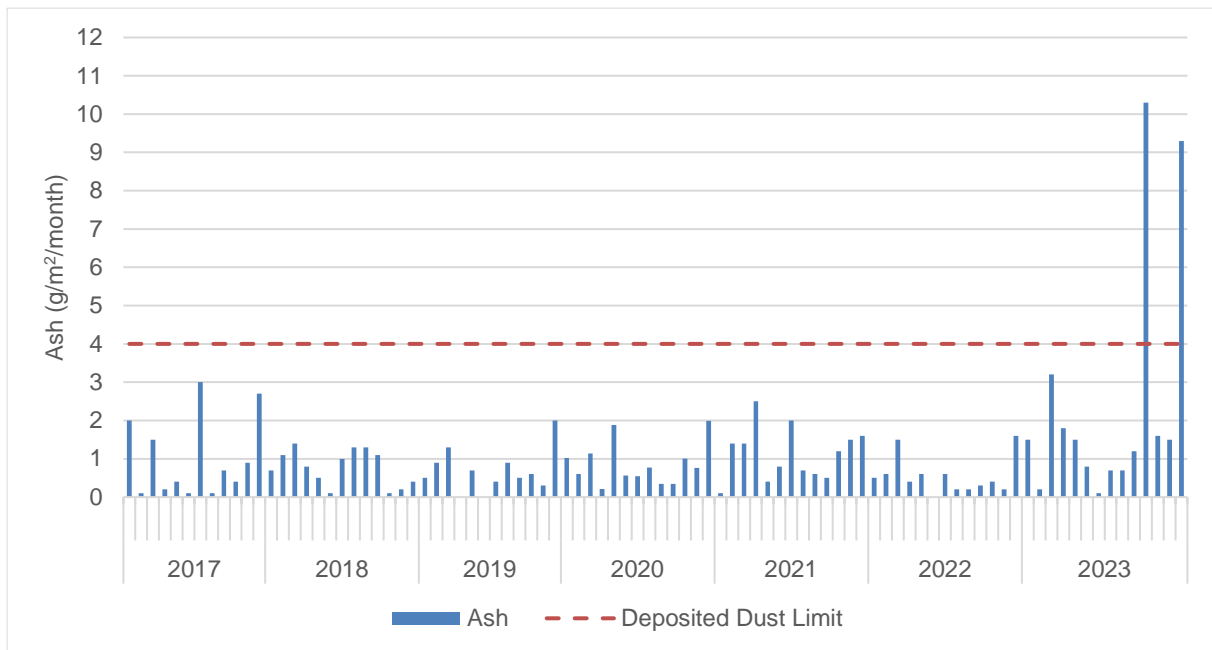


Figure 2.3 Monthly ash deposition results 2017-2023 for site D3

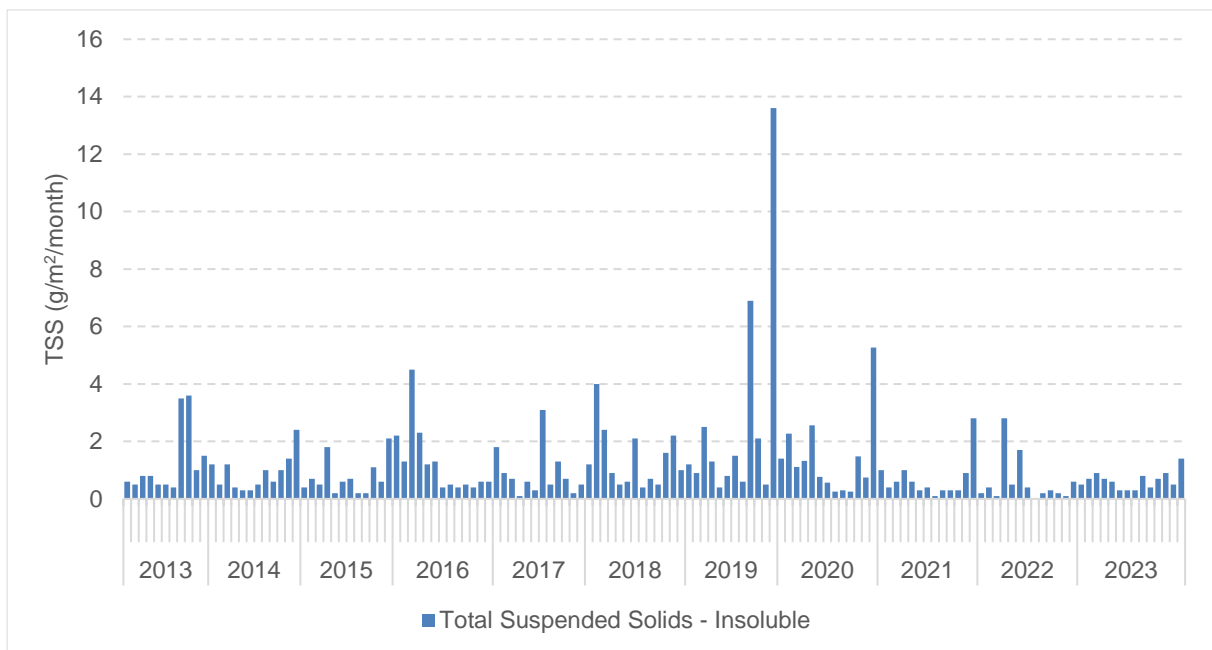


Figure 2.4 Monthly total suspended solids deposition results 2013-2023 for site D1

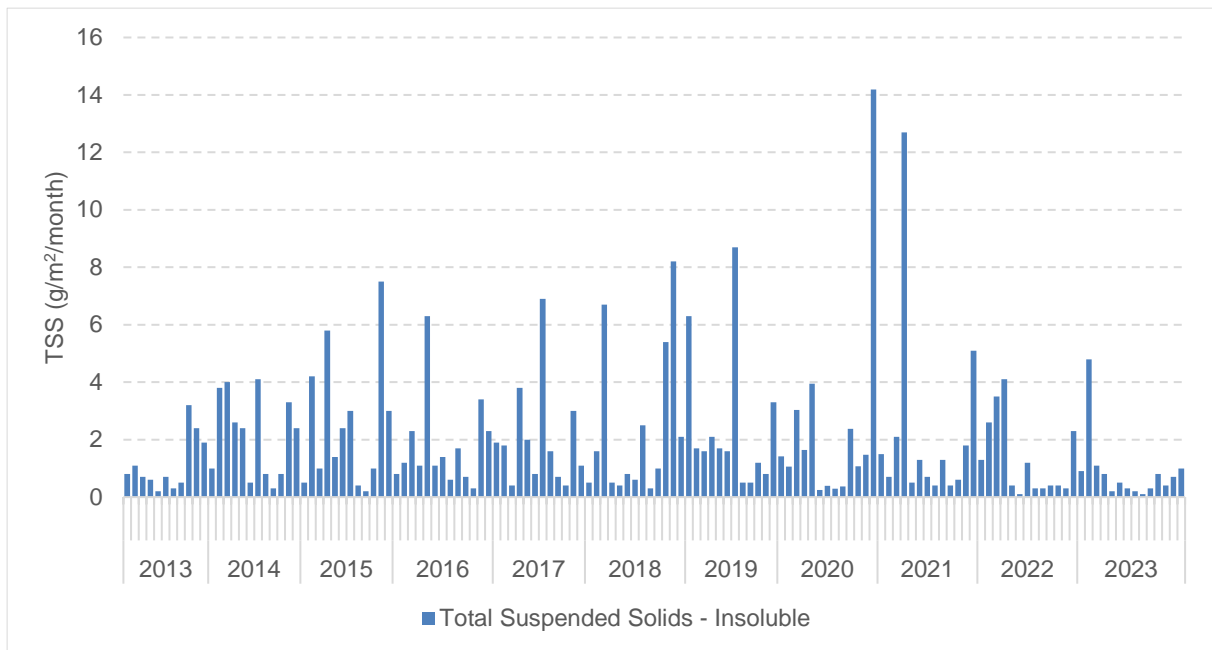


Figure 2.5 Monthly total suspended solids deposition results 2013-2023 for site D2

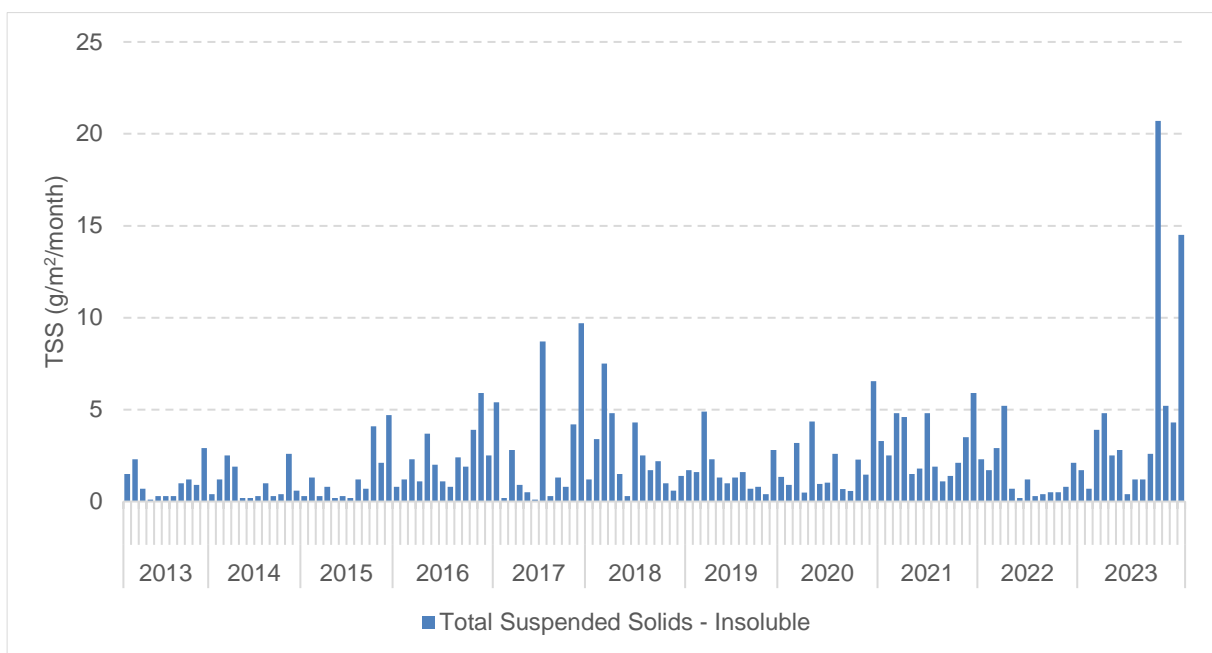


Figure 2.6 Monthly total suspended solids deposition results 2013-2023 for site D3

Particulate Matter Monitoring Results

The air quality criteria relevant to particulate matter and the results for the monitoring period are presented in **Table 2.8**.

Due to the nature of the material being extracted, primary emissions from the Quarry are understood to have an aerodynamic diameter greater than 10 μm . Additionally, an air quality assessment was undertaken by Assured Environmental Pty Ltd which demonstrated compliance with the particulate matter criteria as described in Schedule 3 Condition 10. This was considered sufficient to prove the

low risk of the operations with regard to ambient PM₁₀ concentrations. Additional monitoring for PM₁₀ and TSP are required only in the event of sustained exceedances of deposited dust criteria. If sustained annual average dust deposition > 4 g/m²/month is identified, the Quarry is to establish an additional monitoring site for testing particulate matter concentrations (PM₁₀ and TSP).

As indicated in Table 2.8, the average deposited dust result for 2023 was 1.1 g/m²/month. This is lower than the applicable annual average dust deposition threshold, therefore there is no requirement for the establishment of an additional monitoring site for testing particulate matter concentrations.

Table 2.8 Air Quality Criteria for Particulate Matter and Average Results

Pollutant	Averaging Period	Criteria	2023 Results (Average)
Particulate Matter < 10 µm (PM ₁₀)	Annual	25 µg/m ³	NA ¹
Particulate Matter < 10 µm (PM ₁₀)	24 Hour	50 µg/m ³	NA ¹
Total Suspended Particulates (TSP)	Annual	90 µg/m ³	NA ¹
Deposited Dust (measured as ash)	Annual	4 g/m ² /month	1.1 g/m ² /month

Note to Table 2.7:

1. Monitoring not required during 2023 monitoring period

Identified Trends

An analysis of the data from the previous monitoring periods suggests that the mass of dust deposited at each gauge is, among other factors, subject to seasonal variation. This is likely due to differences in mean wind speed, temperature, and precipitation encountered throughout the year. Long term trends show higher dust levels at site D2 and D3 than at site D1. This is likely due to the proximity of D2 and D3 to roads and is not necessarily a direct impact of Quarry operations.

Comparison with Predicted Impact

An Air Quality Assessment (AQA) was completed by ERM in 2009 and included modelled incremental dust deposition rates at eight sites – three of which are within close proximity to the current locations of dust deposition gauges. Due to a lack of available background levels for dust deposition, a cumulative assessment was not undertaken, however the AQA noted that dust deposition levels would be anticipated to exceed the cumulative criterion of 4 g/m²/month if background levels were included in this assessment. A summary of the annual average deposited dust from the previous monitoring periods are presented in Table 2.9. An analysis of the data from the previous monitoring periods suggests that the rates of deposited dust are below the maximum predicted levels as discussed in the AQA.

Table 2.9 Annual Average Dust Deposition Rates 2017-2023

Gauge	Annual Average Deposited Dust (g/m ² /month)							
	Predicted	2017	2018	2019	2020	2021	2022	2023
D1	<4	0.533	0.692	1.750	0.657	0.138	0.208	0.443
D2	<4	1.000	0.723	1.017	1.166	0.623	0.485	0.379
D3	<4	1.008	0.769	0.675	0.860	1.131	0.546	2.457



2.4.12 Schedule 3 – Condition 11 (Operating Conditions)

Condition

The Proponent must:

- (a) *implement best practice management to minimise the dust emissions of the project;*
- (b) *regularly assess meteorological and air quality monitoring data and relocate, modify and/ or stop operations on site to ensure compliance with the air quality criteria in this approval;*
- (c) *minimise the air quality impacts of the project during adverse meteorological conditions and extraordinary events (see note d under Table 4);*
- (d) *monitor and report on compliance with the relevant air quality conditions in this approval; and*
- (e) *minimise the area of surface disturbance and undertake progressive rehabilitation of the site, to the satisfaction of the Secretary.*

Compliance Statement

The updated AQMP (2023) incorporates suitable management measures relating to the above matters.

2.4.13 Schedule 3 – Condition 12 (Air Quality Management Plan)

Condition

The Proponent must prepare an Air Quality Management Plan for the project to the satisfaction of the Secretary. This plan must:

- (a) *be submitted to the Secretary for approval within 3 months of the determination of Modification 1, unless otherwise agreed by the Secretary;*
- (b) *describe the measures to be implemented to ensure: compliance with the air quality criteria and operating conditions of this approval; best practice management is being employed; and the air quality impacts of the project are minimised during adverse meteorological conditions and extraordinary events;*
- (c) *describe the proposed air quality management system;*
- (d) *include an air quality monitoring program that: is capable of evaluating the performance of the project; includes a protocol for determining any exceedances of the relevant conditions of approval; and effectively supports the air quality management system.*

The Proponent must implement the approved Air Quality Management Plan as approved from time to time by the Secretary.

Compliance Statement

The AQMP (2023) was updated and submitted to DPE in September 2023. The revised AQMP was endorsed by the Secretary on 16 January 2024.



2.4.14 Schedule 3 – Condition 13 (Meteorological Monitoring)

Condition

For the life of the project, the Proponent must ensure that there is a suitable meteorological station operating in the vicinity of the site that complies with the requirements in the Approved Methods for Sampling and Analysis of Air Pollutants in New South Wales guidelines.

Compliance Statement

A meteorological weather station was installed on site in 2018 and upgraded in July 2022. Daily weather data from the monitoring period is provided at **Appendix S**.

2.4.15 Schedule 3 – Condition 14 (Greenhouse Gas Emissions)

Condition

The Proponent must implement all reasonable and feasible measures to minimise the release of greenhouse gas emissions from the site.

Compliance Statement

As per Section 7.2 the AQMP (2023):

- All engines used on-site are required to be fuel efficient rated;
- Engines are to be maintained to the manufacturer's recommendations, and only powered with the recommended fuels.
- Engine idling of all machinery on site is to be minimised.
- Asphalt Plant exhaust stack is to be tested.
- Asphalt Plant burner temperatures are to be regulated to reduce emissions.

2.4.16 Schedule 3 – Condition 15 (Water Supply)

Condition

The Proponent must ensure that it has sufficient water for all stages of the project, and if necessary, adjust the scale of operations under the approval to match its available water supply, to the satisfaction of the Secretary.

Compliance Statement

During the reporting period, while the site water truck was undergoing maintenance, a water truck was obtained from off-site in order to undertake dust suppression activities. Site water was not used within the off-site vehicle due to its predominant use as a municipal water carrier.

2.4.17 Schedule 3 – Condition 16 (Water Discharges)

Condition

The Proponent must comply with the discharge limits in any EPL, or with section 120 of the POEO Act.

Compliance Statement

LCC advises that no water was discharged during the reporting period.



2.4.18 Schedule 3 – Condition 17 (Groundwater Assessment)

Condition

The Proponent must undertake a detailed groundwater assessment to the satisfaction of the Secretary. This assessment must be:

- (a) prepared by a suitably qualified expert in consultation with DPI Water;*
- (b) submitted to the Secretary for approval by 30 December 2018;*
- (c) approved by the Secretary before any extraction below 105 m AHD in the northern pit or below 118.5 m AHD in the southern pit;*
- (d) adequately assess groundwater resources affected by the northern and southern pits, to the proposed full extraction depths of those pits;*
- (e) adequately assess all groundwater impacts associated with proposed extraction;*
- (f) provide data for predicted groundwater pit inflows during and following extraction; and*
- (g) propose management measures to address pit inflows and impacts to groundwater resources.*

The Proponent must implement the management measures proposed in the groundwater assessment to the satisfaction of the Secretary.

Compliance Statement

The Groundwater Assessment Report was submitted and approved by NSW Department of Planning, Industry and Environment, DPIE in June/July 2019. Following consideration of the report, the Department of Industry (Lands and Water) and the DPIE required LCC to obtain:

“the necessary Water Access Licences (WALs) for the extraction of groundwater up to the predicted maximum annual take of 70ML per annum from the North Coast Volcanics Ground Water Source and the North Coast Fractured and Porous Rock Groundwater Sources. The Department requests that this process commence no later than 9 July 2019 and to be notified once the required WALs have been obtained”.

The initial application for a Water Access Licence was made on 9 July 2019. On 12 November 2019, a formal application was made via the Controlled Allocation Order, 3rd period ROI process for 70 Unit Shares from the North Coast Volcanics Groundwater Source at the rate of \$550 per share.

LCC was notified of a successful outcome on 7 January 2020. Shares were paid in full on 2 March 2020. A Notice of Decision for the Water Access Licence was issued in June 2020 and the licence was registered on 19 January 2021.


2.4.19 Schedule 3 – Condition 18 (Soil and Water Management)

Condition

If groundwater is encountered during quarrying operations in the South Pit under EA (Mod 1), the Proponent must cease quarrying operations until authorised to recommence by the Secretary.

Compliance Statement

LCC advises that groundwater was not encountered during the operation of the Quarry during the reporting period.



2.4.20 Schedule 3 – Condition 19 (Soil and Water Management)

Condition

The Proponent must prepare a Soil and Water Management Plan for the project to the satisfaction of the Secretary. This plan must:

- (a) be prepared by suitably qualified and experienced person/ s approved by the Secretary;*
- (b) be prepared in consultation with the EPA and DPI Water;*
- (c) be submitted to the Secretary for approval within 3 months of the determination of Modification 1, unless otherwise agreed by the Secretary; and*
- (d) include a:*

(i) Site Water Balance that includes:

details of:

- *sources and security of water supply;*
- *water use and management onsite;*
- *any off-site water transfers; and*
- *reporting procedures; and*
- *measures to be implemented to minimise clean water use on site;*

(ii) Surface Water Management Plan, that includes:

a program for obtaining detailed baseline data on surface water flows and quality in water bodies that could potentially be affected by the project;

- *a detailed description of the surface water management system on site including the:*
 - *clean water diversion system;*
 - *erosion and sediment controls;*
 - *dirty water management system; and*
 - *water storages; and*
- *a program to monitor and report on:*
 - *any surface water discharges;*
 - *the effectiveness of the water management system,*
 - *the quality of water discharged from the site to the environment;*
 - *surface water flows and quality in local watercourses;*

(iii) Groundwater Management Plan that includes:

- *a provision that requires the Proponent to obtain appropriate water licence(s) to cover the volume of any unforeseen groundwater inflows into the quarry from the quarry face or floor; and*
- *a monitoring program to manage potential impacts, if any, on any alluvium and associated surface water source near the proposed extraction area that includes:*
 - *identification of a methodology for determining threshold water level criteria;*
 - *contingency measures in the event of a breach of thresholds; and*
 - *a program to regularly report on monitoring.*



The Proponent must implement the approved Soil and Water Management Plan as approved from time to time by the Secretary.

Compliance Statement

Soil and Water Management Plan: The updated Soil and Water Management Plan (Rev. 4) (SWMP) was submitted on 5 March 2019 and approved by DPIE on 25 June 2019. A revised SWMP is still under DPHI assessment.

Site Water Balance: A site water balance is incorporated into Appendix 4 of the SWMP.

Annual Site Water Balance: In accordance with Chapter 3.5.5 of the SWMP, an annual site water balance was prepared in March 2023 for the 2022 monitoring period (refer to **Appendix T**). The annual site water balance made five recommendations:

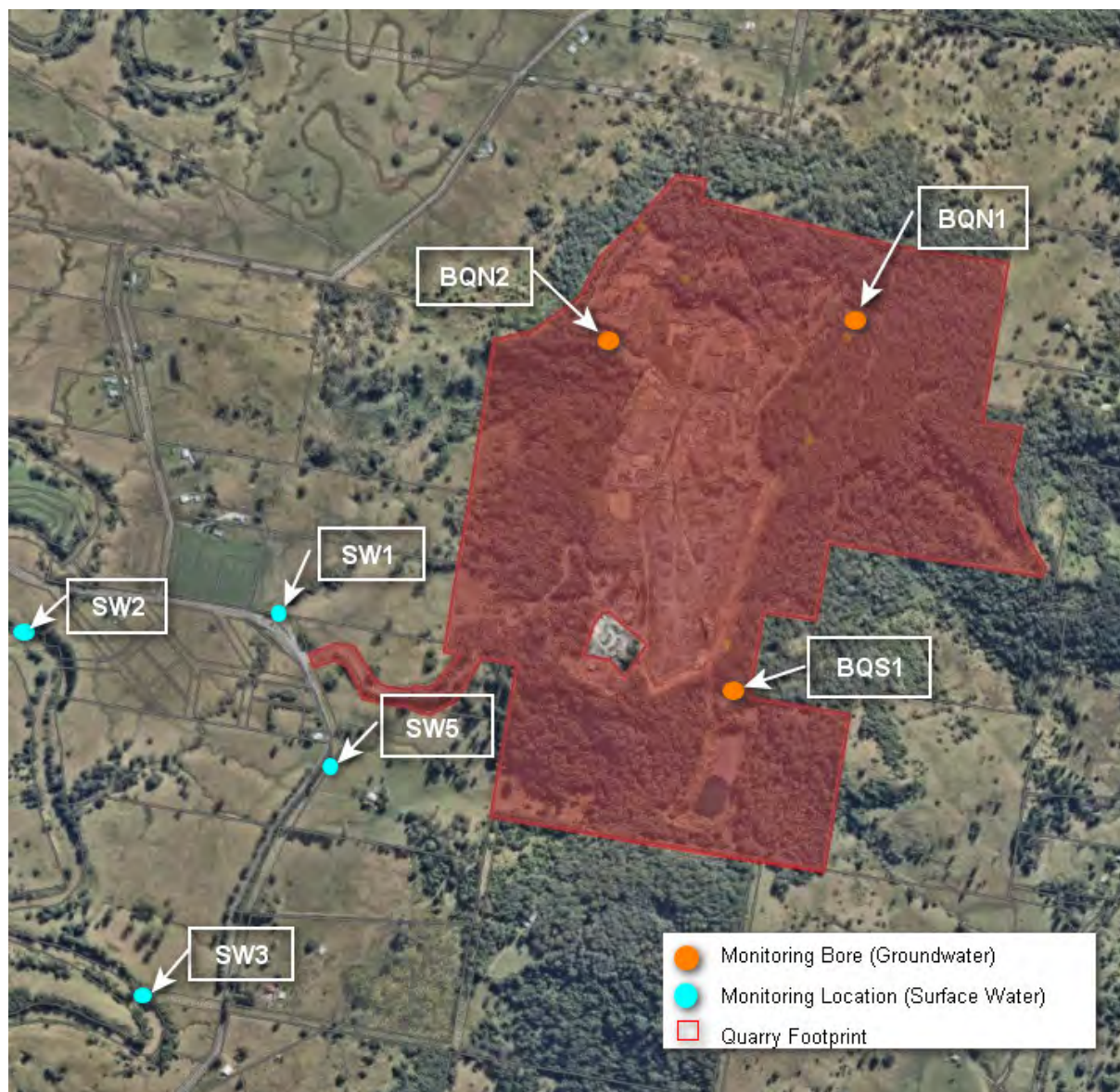
1. Ongoing training of quarry staff to consistently identify/ name the various water bodies on site in the water truck usage log.
2. Recording of days of zero water use (to remove uncertainty over whether records were kept on days with no recorded usage).
3. Accurate record keeping of all water transfers and usage from all storages including the tank.
4. Following completion of Stage 2, a detailed ground survey of the catchment draining to sediment basins SB1 and SB2 (including the sediment basins) to ensure that site runoff is being directed to the correct basin for treatment.
5. Installation of water level markers in the main dam and the south pits sediment basin and regular records of all water levels (weekly during dry periods and daily following rainfall until capacity is restored) will assist in improving the reliability of water balance modelling for future reporting years.

Surface Water Management Plan: A plan for the management of surface water is included within the SWMP. Relevant details regarding the management of erosion, sediment, water storages, and surface waters are contained within this plan. The SWMP also details a surface water monitoring and reporting program. Monitoring of waters within the sediment basin as well as offsite waters are to be conducted before and during discharges. In addition to this, off site surface waters will be monitored quarterly for the following parameters:

- pH
- EC
- DO
- Temperature
- Turbidity
- TSS
- Nutrients
- A visual inspection for oil and grease

Illustration 2.4 indicates the surface water and groundwater monitoring locations relevant to the Quarry's footprint.

Illustration 2.4 Surface water and groundwater monitoring locations



A summary of the surface water monitoring results for the reporting period is provided in **Table 2.10**. Laboratory analysis reports are provided at **Appendix U**.

Table 2.10 Summary of Surface Water Monitoring of Receiving Waterways

Site	Date	Field Comments	pH	EC ($\mu\text{S/cm}$)	DO (mg/L)	DO (%)	Temperature ($^{\circ}\text{C}$)	Turbidity (NTU)	TSS (mg/L)	Phosphate (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Ammonia (mg/L)	Oil & Grease Present? (Visual Inspection)
SW1	02/03/2023	Low flow, low-moderately turbid.	7.95	534.78	5.98	77.13	28.53	17.22	73	0.019	<0.005	<0.005	0.090	None
SW1	06/06/2023	Low flow, low turbidity.	7.34	574.57	7.35	77.32	17.81	5.89	4	0.008	<0.005	<0.005	0.018	None
SW1	04/09/2023	Low flow, low turbidity.	7.56	803.89	6.71	72.96	19.47	7.24	6	0.006	<0.005	<0.005	0.011	None
SW1	04/12/2023	Low flow, low turbidity.	7.27	584.00	1.91	23.18	25.12	10.21	14	0.019	0.025	0.006	0.046	None
SW2	02/03/2023	Moderate flow, moderately turbid.	7.95	118.91	6.56	87.23	30.24	37.30	24	0.037	0.106	<0.005	0.104	None
SW2	06/06/2023	Low-moderate flow, moderately turbid.	7.34	122.06	9.20	95.28	17.07	19.4	17	0.022	0.100	<0.005	0.024	None
SW2	04/09/2023	Low flow, moderately turbid.	7.56	186.55	8.78	94.67	19.01	20.6	17	0.017	0.008	<0.005	<0.005	None
SW2	04/12/2023	Low flow, moderately turbid.	7.27	175.74	8.58	113.29	29.83	29.1	19	0.053	0.024	0.007	0.017	None
SW3	02/03/2023	Moderate flow, moderately turbid.	6.88	113.29	6.20	82.34	30.20	27.86	18	0.036	0.101	<0.005	0.071	None
SW3	06/06/2023	Low-moderate flow, moderately turbid.	8.04	127.39	9.00	93.13	17.01	19.1	13	0.022	0.102	<0.005	0.021	None
SW3	04/09/2023	Low flow, moderately turbid.	8.26	197.09	9.06	98.81	19.60	19.0	9	0.017	<0.005	<0.005	0.008	None
SW3	04/12/2023	Low flow, moderately turbid.	8.46	193.92	10.06	134.54	30.57	30.3	19	0.052	<0.005	<0.005	0.019	None
SW5	02/03/2023	Not flowing.	NS ¹	NS ¹	NS ¹	NS ¹	NS ¹	NS ¹	NS ¹	NS ¹	NS ¹	NS ¹	NS ¹	None
SW5	06/06/2023	Not flowing.	NS ¹	NS ¹	NS ¹	NS ¹	NS ¹	NS ¹	NS ¹	NS ¹	NS ¹	NS ¹	NS ¹	None
SW5	04/09/2023	Not flowing.	NS ¹	NS ¹	NS ¹	NS ¹	NS ¹	NS ¹	NS ¹	NS ¹	NS ¹	NS ¹	NS ¹	None
SW5	04/12/2023	Not flowing.	NS ¹	NS ¹	NS ¹	NS ¹	NS ¹	NS ¹	NS ¹	NS ¹	NS ¹	NS ¹	NS ¹	None

1. Not Sampled (NS)

Surface water monitoring results for 2017 to 2023 showing measured TSS and pH are presented in Figure 2.7 and Figure 2.8, respectively.

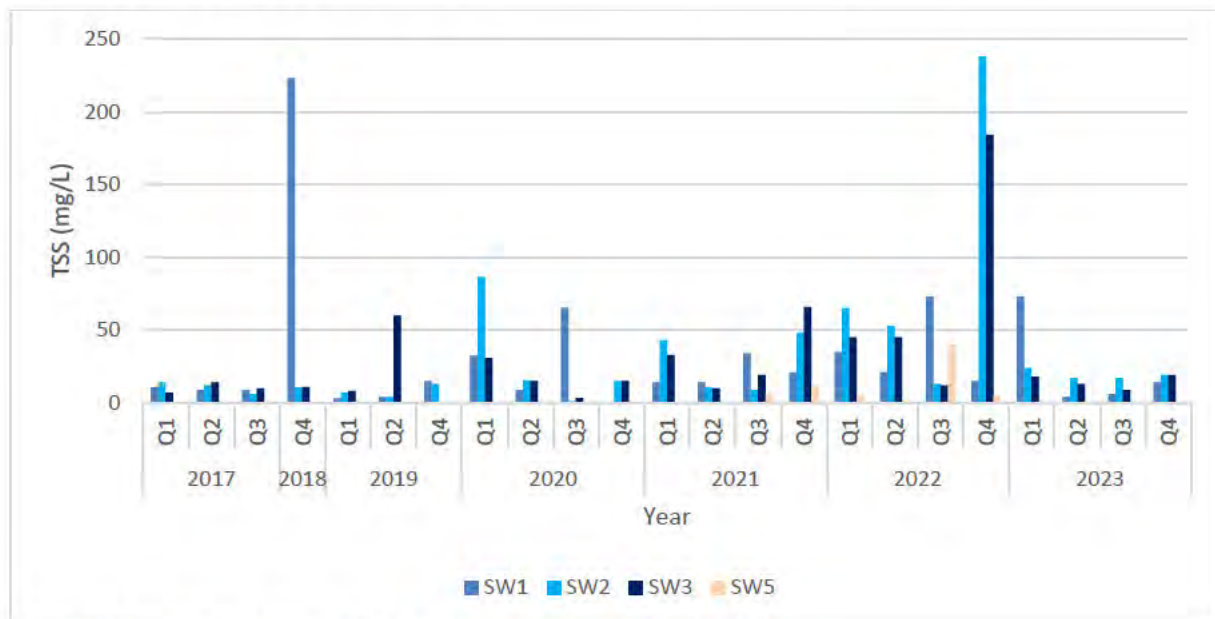


Figure 2.7 Surface water TSS monitoring results 2017-2022

Notes:

SW5 was not monitored prior to Q3 2021.

SW5 was not monitored during 2023 due to insufficient flow.

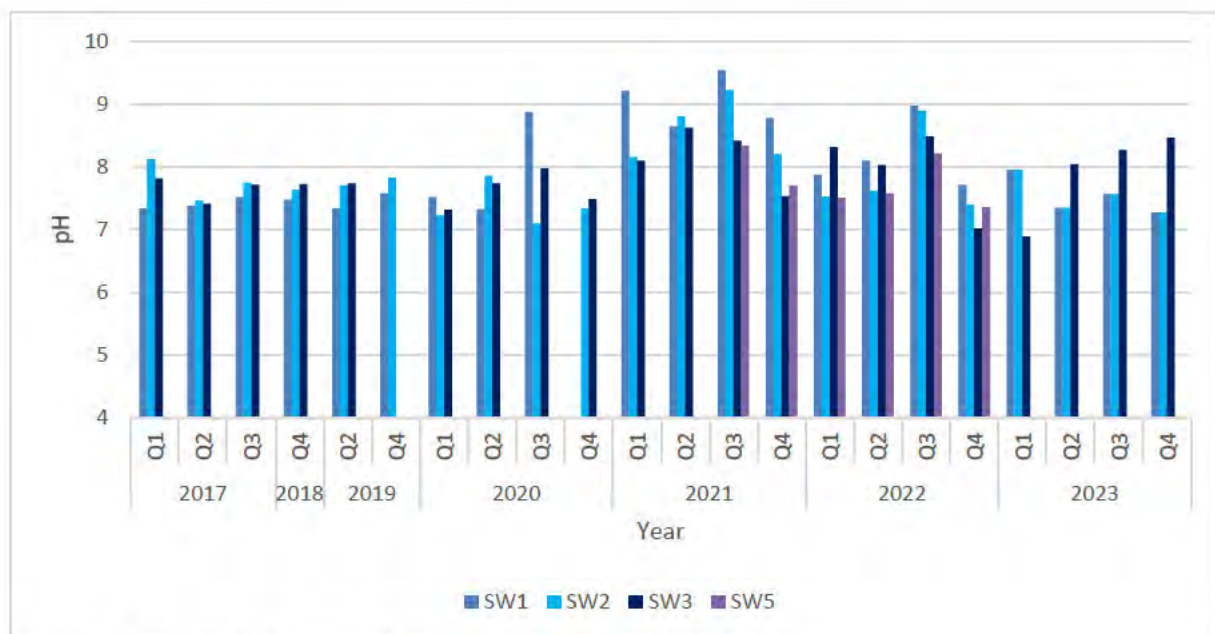


Figure 2.8 Surface water pH monitoring results 2017-2022

Notes:

SW5 was not monitored prior to Q3 2021.

SW5 was not monitored during 2023 due to insufficient flow.



Monitoring of surface waters at sites SW1 and SW5 (refer to **Illustration 2.4**) provides an indication of the qualities of surface waters flowing from the sub catchments affected by the Quarry's operation. Flow of Terania Creek at the monitoring location is in a generally southerly direction, with SW2 and SW3 providing an indication of surface water quality both upstream (SW2) and downstream (SW3) of the introduction of surface water flows from the Quarry. In the event of an increase of measured values between SW2 and SW3, this may suggest that the Quarry's operation is impacting the surface water quality of Terania Creek.

Results from the monitoring period suggest that there is not a notable difference in measured water quality parameters between SW2 and SW3, suggesting that the Quarry did not have a negative impact on off-site surface waters during the monitoring period.

Water quality monitoring of sediment basins is required prior to water discharge. No discharge events occurred during the monitoring period.

Identified Trends

No discernible trends in surface water quality have been identified. It is likely that the variances in water quality are the result of external factors and not due to the operation of the Quarry.

Comparison with Predicted Impact

An assessment of potential impacts on surface water was undertaken as part of the original Environmental Assessment Report (ERM 2009). While acknowledging that the exposed surfaces within the Quarry footprint may experience erosion and an associated increase in TSS within stormwater, the report outlines several mitigation measures that are intended to prevent the discharge of dirty water into surrounding waterways. An analysis of the data from previous monitoring periods suggests that the Quarry is not having a significant impact on surrounding surface water quality.

Groundwater Monitoring Results:

Quarterly groundwater quality monitoring was undertaken at nine groundwater monitoring bores (refer to **Illustration 2.4**) in March, June, September and December 2023 by Ecoteam.

As per the SWMP, groundwater is to be measured against the following parameters:

- pH¹;
- Electrical Conductivity (EC)¹;
- Total Petroleum Hydrocarbons (TPH)²;
- Benzene, Toluene, Ethylbenzene and Xylene (BTEX)²;
- total iron¹;
- total lead¹;
- dissolved iron²;
- dissolved lead²;
- total oils and grease (to be monitored as a surrogate for TPH and BTEX until sufficient data is available)¹; and
- major ions and cations².

¹ Site specific interim groundwater quality triggers have been established for these parameters in the SWMP.

² There are no site-specific trigger values for these parameters in the SWMP. These additional parameters are monitored to assist with the characterisation of groundwater.



Results of groundwater monitoring are provided at **Appendix V**.

An analysis of results from the monitoring period suggest that groundwater quality parameter values were generally below, or only slightly exceeding, interim trigger values outlined in the SWMP, with three notable exceptions:

- The concentrations of total lead within the groundwater sampled from BQS1-S exceeded the interim trigger values during all monitoring rounds. The concentrations of total lead within the groundwater sampled from BQN1-I exceeded the interim trigger values twice
- The concentrations of total iron within the groundwater sampled from BQN1-S exceeded the interim trigger values twice.
- The concentrations of total oils and grease within the groundwater sampled from BQN1-S, BQN1-D, BQN2-D, and BQN2-S collectively exceeded the interim trigger values ten times. Concentrations of total oils and grease at both BQN1-S and BQN2-S exceeded the respective interim trigger values during the June, September, and December monitoring rounds.

In considering these exceedances, it is worth noting that:

- Interim trigger values were derived from a 2-year data set, and are to be updated in the future SWMP (currently under review); and
- Interim trigger values represent the 80th percentile values, with non-parametric maximums and Limits of Reporting (LOR) used for interim lead trigger values due to the small sample size and distribution. This would allow for a 20% probability of exceedance per monitoring round.

As per the SWMP, in the event of an exceedance that is likely attributable to site activities, further investigations will be undertaken to ascertain if the incident is an anomaly or if a sustained decline in groundwater quality is present. Quarterly groundwater monitoring reports from Ecoteam concluded that exceedances in EC and metals within the bores were potentially attributable to rainfall and not from Quarry activities. The quarterly groundwater monitoring reports did not speculate on a potential cause for exceedances in total oils and grease and did not recommend further investigation.

Following review of the quarterly monitoring data, the exceedances in groundwater contaminants were self-reported to the DPHI on 25 January 2024 (refer to **Appendix W**). Subsequently, a groundwater investigation was undertaken by Ecoteam to identify the potential cause of exceedances (refer to **Appendix X**). Ecoteam concluded that:

“pH, lead and iron are most likely of natural occurrence from increased weathering and sediment following the 2022 flood and high rainfall period. No further investigation is recommended for these parameters. Total Oils and Grease (TOG) can be present from both natural and anthropogenic sources. It is recommended that, if TOG is identified above the trigger limits during the next round of sampling, that silica gel clean-up should be undertaken to ascertain if the source is of natural occurrence or pollution related.”

Identified Trends

Total lead concentrations at BQS1-S exceeded the interim trigger values twice in 2022 and four times in 2023. A groundwater investigation undertaken by Ecoteam in 2023 (refer to **Appendix Y**) compared rainfall at Tuncester and exceedances of EC and metal concentrations in all bores between 2020-2022. Ecoteam determined that all reported exceedances were correlated with high rainfall, with the source of lead being the surrounding regolith.

A comparison of total lead levels and rainfall (as measured by the on-site rain gauge) between 2018-2023 (refer to **Figure 2.9**) did not identify a clear correlation between rainfall and total lead concentration within monitoring bore BQS1-S.

Despite exceeding the interim trigger for total iron twice during the monitoring period, a review of the iron concentrations at BQN1-S between 2018-2023 (refer to **Figure 2.10**) did not identify a discernible trend. Measured concentrations of total iron during the monitoring period were below or within one standard deviation of the mean ($\sigma_x = 0.48$, $\bar{x} = 1.8$).

Total oils and grease at BQN1-S and BQN2-S exceeded the interim trigger three times during the monitoring period. A review of the total oil and grease concentration between the years 2018-2023 at BQN1-S (refer to **Figure 2.11**) and BQN2-S (refer to **Figure 2.12**) suggest that there has been a concurrent gradual increase, beginning in December 2022.

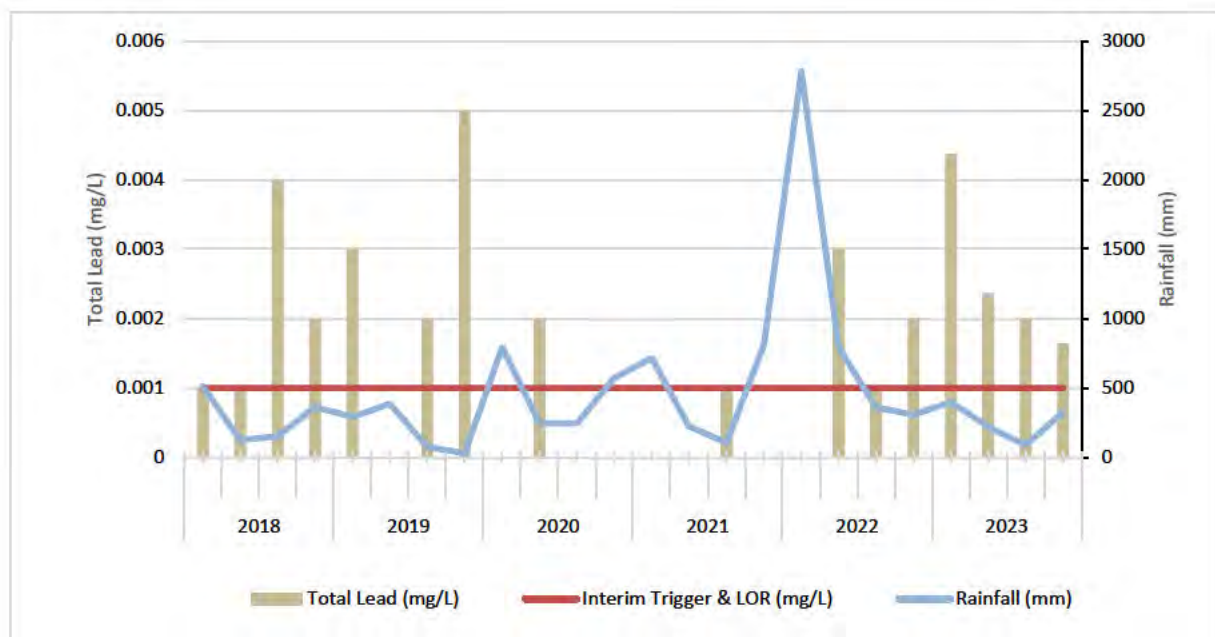


Figure 2.9 Lead concentration (mg/L) within BQS1-S and rainfall (mm) for the period 2018-2023.

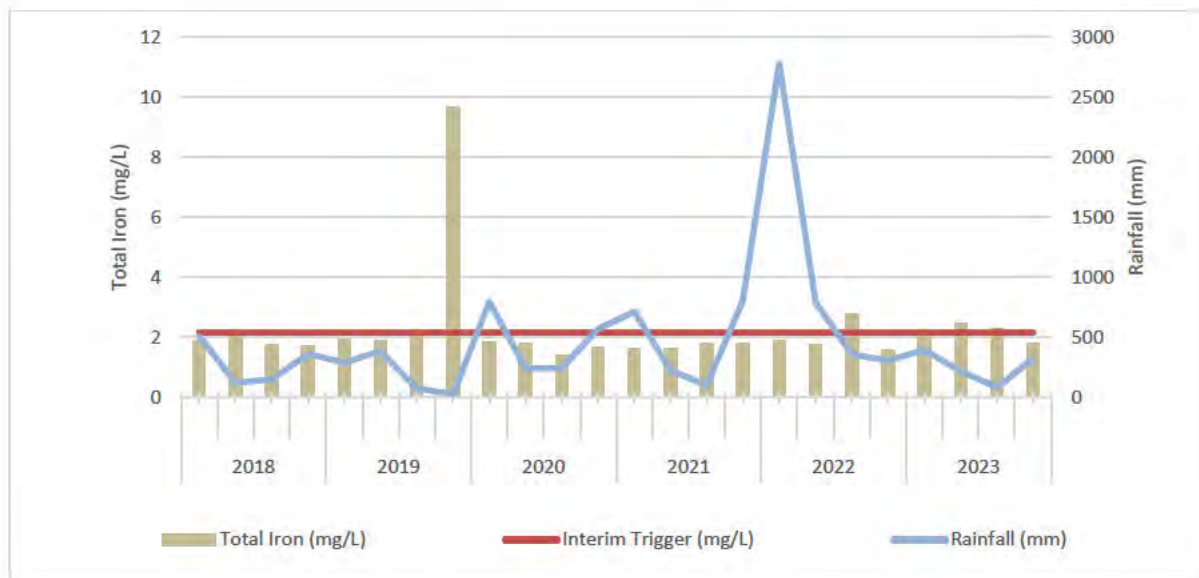


Figure 2.10 Iron concentration (mg/L) within BQN1-S and rainfall (mm) for the period 2018-2023.

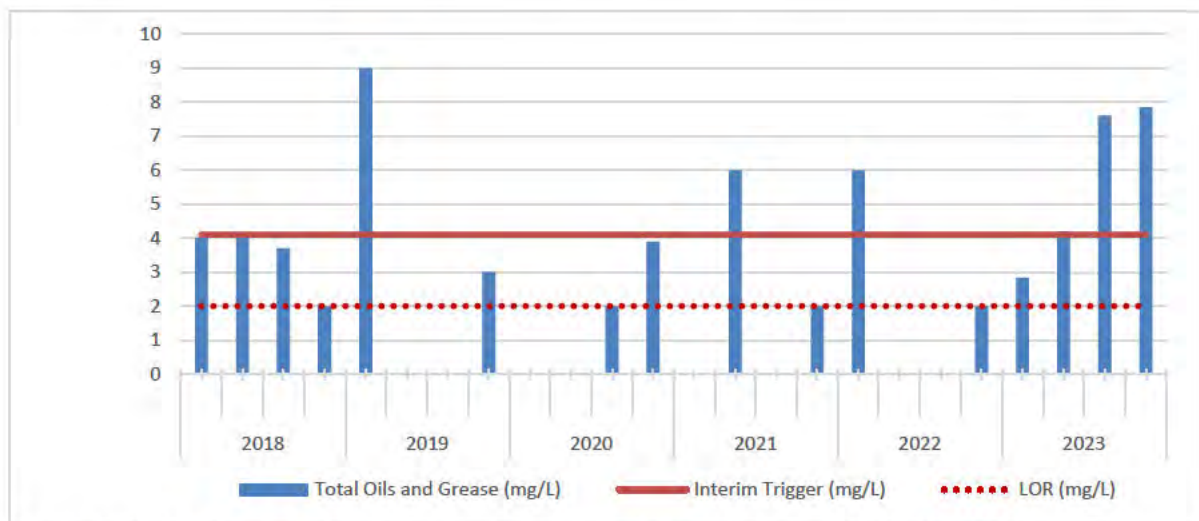


Figure 2.11 Total oils and grease (mg/L) within BQN1-S for the period 2018-2023.

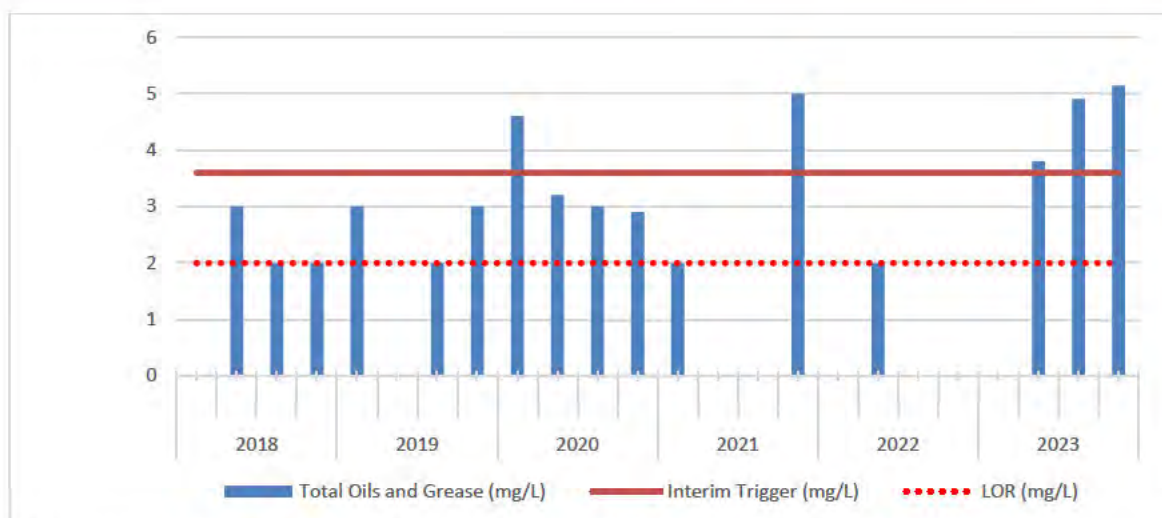


Figure 2.12 Total oils and grease (mg/L) within BQN2-S for the period 2018-2023.

Comparison with Predicted Impact

A 2008 groundwater and geological investigation by Groundwork Environmental Management Services determined that the effect on groundwater as a result of the Quarry's operation would be minimal due to the favourable site setting, the relatively low yield nature of the aquifers, and the management practices, which effectively mitigate any potential groundwater contamination. In addition to this, a 2017 groundwater impact assessment by Gilbert & Sutherland concluded that, due to extraction depths within the Quarry's operation, the water bearing zones will not be interfered with. An analysis of groundwater quality data for the monitoring period suggests that the Quarry's operation is not having a significant impact on groundwater quality, although the results of future groundwater monitoring at BQS1-S and BQN2-S should be considered in the context of elevated total lead and total oils and grease during the 2023 reporting period.

2.4.21 Schedule 3 – Condition 20 (Monitoring of Product Transport)

Condition

The Proponent must keep accurate records of all laden truck movements to and from the site (including time of arrival and dispatch) and publish a summary of records on its website every 6 months.

Compliance Statement

Records on laden truck movements are kept which detail the date, time and registration plate details of trucks exiting the quarry. A review of the LCC website on 12 February 2024 indicates that these records and a summary table with daily, weekly, and monthly total laden truck movements are provided for the 2023 calendar year.

2.4.22 Schedule 3 – Condition 21 (Road Upgrades)

Condition

The Proponent must undertake the following road upgrade works generally in accordance with the recommendations in the EA, and to the satisfaction of the RMS:



- a) *upgrade the intersection of the Quarry Access and Nimbin Road to a 'Type AUR Intersection Treatment', prior to 31 December 2010;*
- b) *upgrade the guard rails on the approaches to Booerie Creek Bridge prior to 31 December 2010;*
- c) *upgrade the Booerie Creek Road and Nimbin Road intersection to a 'Type BAR Right Turn Treatment on the Through Road' prior to 31 December 2010;*
- d) *upgrade the Wilson Street and Nimbin Road intersection to a 'Type CHR Right Turn Bay Treatment' prior to 31 December 2010; and*
- e) *re-align Nimbin Road and the Quarry Access intersection to meet the AUSTROADS sight distance requirements for vehicles travelling in both directions through the intersection prior to 31 December 2011; and*
- f) *upgrade the intersection at Nimbin Road and the Quarry Access from the current Type AUR intersection to a Type CHR-S (Shortened Channelised Right Hand Turn) to the satisfaction of TfNSW.*

Note: The road works must be constructed in accordance with the relevant RMS or AUSTROADS standards, and signposted and lit in accordance with AS:1742 – Manual of Uniform Traffic Control Devices and AS/NZ 1158:2005 – Lighting for Roads and Public Spaces.

Compliance Statement

LCC advises that the road upgrade works referred to in Schedule 3 Condition 21 (a)-(e) were completed prior to the monitoring period. Truck movements are currently limited to 120 per day until the upgrade of the intersection. Designs for the intersection upgrade at Nimbin Road and the Quarry Access referred to in (f) have been updated and submitted to TfNSW for consultation.

2.4.23 Schedule 3 – Condition 22 (Operating Conditions)

Condition

The Proponent must:

- (a) *restrict truck movements from the quarry to an average of 50 laden trucks a day until all road upgrades works required by condition 21 (a) – (e) of Schedule 3, are met or unless otherwise approved by the Secretary;*
- (b) *ensure that all laden trucks entering or exiting the site have their loads covered, with the exception of loads consisting solely of boulders greater than one tonne in weight;*
- (c) *ensure that all laden trucks exiting the site are cleaned of material that may fall from vehicles, before leaving the site; and*
- (d) *use its best endeavours to ensure that appropriate signage is displayed on all trucks used to transport product from the project so they can be easily identified by road users.*

Compliance Statement

All roadworks referenced in Item (a) are complete.



The Operational Traffic Management Plan (refer to Schedule 3 Condition 23 in **Section 2.4.24**) includes measures to address Items (b), (c) and (d).

2.4.24 Schedule 3 – Condition 23 (Traffic Management Plan)

Condition

The Proponent must prepare a Traffic Management Plan for the project to the satisfaction of the Secretary. This plan must:

- a) be prepared in consultation with the TfNSW and Council;*
- b) be submitted to the Secretary for approval within 3 months of the determination of Modification 1, unless otherwise agreed by the Secretary;*
- c) describe the processes in place for the control of truck movements entering and exiting the site;*
- d) include a Drivers' Code of Conduct that details the safe and quiet driving practices that must be used by drivers transporting products to and from the quarry;*
- e) describe the measures to be put in place to ensure compliance with the Drivers' Code of Conduct; and*
- f) propose measures to minimise the transmission of dust and tracking of material onto the surface of the public road from vehicles leaving the quarry.*

The Proponent must implement the approved Traffic Management Plan as approved from time to time by the Secretary.

Compliance Statement

The updated Operational Traffic Management Plan (Rev 3.1) for the Quarry was submitted by LCC and endorsed by the Secretary in 2018. An updated version was assessed by the DPE/ DPHI and approved in the 2024 monitoring period.

2.4.25 Schedule 3 – Condition 24 (Aboriginal Heritage Management Plan)

Condition

The Proponent must prepare an Aboriginal Heritage Management Plan for the project to the satisfaction of the Secretary. The plan must:

- (a) be prepared by suitably qualified and experienced persons whose appointment has been endorsed by the Secretary;*
- (b) be prepared in consultation with Heritage NSW and the Registered Aboriginal Parties;*
- (c) be submitted to the Secretary for approval within 3 months of the determination of Modification 1, unless otherwise agreed by the Secretary; and*
- (d) include a description of the measures that would be implemented to:*



- *protect, monitor and manage known sites of archaeological significance;*
- *manage any new Aboriginal objects or relics that are discovered;*
- *store Aboriginal heritage items salvaged on site; and*
- *ensure ongoing consultation and involvement of the Registered Aboriginal Parties in the conservation and management of Aboriginal cultural heritage on the site.*

The Proponent must implement the approved Aboriginal Heritage Management Plan as approved from time to time by the Secretary.

Compliance Statement

The updated Aboriginal Heritage Management Plan (Rev 4.2) (AHMP) for the Quarry was submitted by LCC in September 2022 and endorsed by the Secretary on 18 August 2023.

The AHMP contains sufficient measures to address all requirements within Item (d) of Schedule 3 – Condition 24.

2.4.26 Schedule 3 – Condition 25 (Aboriginal Heritage Management Plan)

Condition

If any item or object of Aboriginal heritage significance is identified on site, the Proponent must ensure that:

- (a) *all work in the immediate vicinity of the suspected Aboriginal item or object ceases immediately;*
- (b) *a 10 m buffer area around the suspected item or object is cordoned off; and*
- (c) *the Heritage NSW is contacted immediately.*

Work in the immediate vicinity of the Aboriginal item or object may only recommence in accordance with the provisions of Part 6 of the National Parks and Wildlife Act 1974.

Compliance Statement

LCC advises that no items or objects of Aboriginal Cultural Heritage significance were identified during the reporting period.

2.4.27 Schedule 3 – Condition 25A (Biodiversity Offset Strategy)

Condition

The Proponent must:

- (a) *implement the Biodiversity Offset Strategy (see Table 5);*
- (b) *ensure that adequate resources are dedicated towards the implementation of this strategy;*
- (c) *provide appropriate long-term security for the offset area; and*
- (d) *provide a timetable for the implementation of the offset strategy prior to 30 June 2010, or as otherwise agreed by the Secretary, to the satisfaction of the Secretary.*



Table 5: Biodiversity Offset Strategy

Offset Areas	Minimum Size
On-site offset (Protection Zone in Appendix 4)	17.6 hectares
Off-site offset (within Lismore local government area, and not already within a conservation area)	45 hectares
Total	62.6 hectares

Note: Mechanisms to provide appropriate long-term security to the land within the Biodiversity Offset Strategy in accordance with the NSW Biodiversity Offset Policy for Major Projects 2014, include a BioBanking Agreement, Voluntary Conservation Agreement or an alternative mechanism that provides for a similar conservation outcome.

Compliance Statement

The Biodiversity Offset Strategy (BOS) for the Quarry was submitted by LCC and endorsed by the Secretary in March 2019.

2.4.28 Schedule 3 – Condition 26 (Rehabilitation Objectives)

Condition

The Proponent must rehabilitate the site to the satisfaction of the Secretary. This rehabilitation must be generally consistent with the rehabilitation strategy in the EIS and must comply with the objectives in Table 6.


Table 6: Rehabilitation Objectives

Feature	Objective
<i>All areas of the site affected by the project</i>	<ul style="list-style-type: none">• Safe• Hydraulically and geotechnically stable• Non-polluting• Fit for the intended post mining land uses(s)• Final landform integrated with surrounding natural landforms as far as is reasonable and feasible, and minimising visual impacts when viewed from surrounding land
<i>Surface Infrastructure</i>	<ul style="list-style-type: none">• Decommissioned and removed, unless otherwise agreed by the Secretary
<i>Quarry benches and pit floor</i>	<ul style="list-style-type: none">• Landscaped and vegetated using native tree and understorey species
<i>Final Void</i>	<ul style="list-style-type: none">• Minimise the size, depth and slope of the batters of the final void• Minimise the drainage catchment of the final void

Compliance Statement

LCC advises that no site rehabilitation was required, or occurred, during the reporting period.

2.4.29 Schedule 3 – Condition 27 (Progressive Rehabilitation)

Condition

The Proponent must rehabilitate the site progressively, that is, as soon as reasonably practicable following disturbance. All reasonable and feasible measures must be taken to minimise the total area exposed for dust generation at any time. Interim stabilisation measures must be implemented where reasonable and feasible to control dust emissions in disturbed areas that are not active, and which are not ready for final rehabilitation.

Note: It is accepted that parts of the site that are progressively rehabilitated may be subject to future re-disturbance

Compliance Statement

LCC advises that no site rehabilitation was required, or occurred, during the reporting period.

2.4.30 Schedule 3 – Condition 28 (Biodiversity and Rehabilitation Management)

Condition

The Proponent must prepare a Biodiversity and Rehabilitation Management Plan for the project to the satisfaction of the Secretary. This plan must:

- (a) be prepared by a suitably qualified expert;*
- (b) be prepared in consultation with BCD and Council;*
- (c) be submitted to the Secretary for approval within 3 months of the determination of Modification 1, unless otherwise agreed by the Secretary;*



- (d) *provide details of the conceptual final landform and associated land uses for the site;*
- (e) *describe how the implementation of the Biodiversity Offset Strategy will be integrated with the overall rehabilitation of the site;*
- (f) *include a Koala Management Plan prepared in accordance with SEPP 44;*
- (g) *include detailed performance and completion criteria for evaluating the performance of the Biodiversity Offset Strategy and rehabilitation of the site (including progressive rehabilitation), including triggers for any necessary remedial action;*
- (h) *describe the short, medium and long term measures to be implemented to:*
 - *manage remnant vegetation and habitat on site, including within the Biodiversity Offset Strategy area; and*
 - *ensure compliance with the rehabilitation objectives and progressive rehabilitation obligations in this approval;*
- (i) *include a detailed description of the measures described in paragraph (h) to be implemented over the next 3 years (to be updated for each 3 year period following initial approval of the plan) including the procedures to be implemented for:*
 - *maximising the salvage of environmental resources within the approved disturbance area, including tree hollows, vegetative and soil resources, for beneficial reuse in the enhancement of the offset area or site rehabilitation;*
 - *restoring and enhancing the quality of native vegetation and fauna habitat in the biodiversity offset and rehabilitation areas through assisted natural regeneration, targeted vegetation establishment and the introduction of fauna habitat features;*
 - *protecting vegetation and fauna habitat outside the approved disturbance area on-site, including core Koala habitat;*
 - *minimising the impacts on native fauna, including undertaking pre-clearance surveys;*
 - *establishing vegetation screening to minimise the visual impacts of the site on surrounding receivers;*
 - *ensuring minimal environmental consequences for threatened species, populations and habitats;*
 - *collecting and propagating seed;*
 - *controlling weeds and feral pests*
 - *controlling erosion; and*
 - *managing bushfire risk;*
- (j) *include a program to monitor and report on the effectiveness of these measures, and progress against the performance and completion criteria;*
- (k) *identify the potential risks to the successful implementation of the Biodiversity Offset Strategy, and include a description of the contingency measures to be implemented to mitigate these risks; and*
- (l) *include details of who is responsible for monitoring, reviewing, and implementing the plan.*

The Proponent must implement the Biodiversity and Rehabilitation Management Plan as approved from time to time by the Secretary.



Compliance Statement

The Biodiversity and Rehabilitation Management Plan (BRMP) was submitted to DPIE in August 2018. In 2019, following the approval of the Biodiversity Offset Strategy (BOS) (Environmental Resources Management Australia, 2019), the BRMP (Environmental Resources Management Australia, 2019) was again amended and submitted to DPIE for approval. This was subsequently approved on 14 March 2019.

Vegetation Management

An indicative map of vegetation management areas is shown in **Illustration 2.5**. Section 5.2 of the BOS requires that a suitably qualified professional be engaged to carry out ongoing monitoring to detail the effectiveness of measures and progress against performance indicators contained within the BRMP and BOS. The 2023 Bush Regeneration Plan Monitoring Report (BRPMR) undertaken by Heidi Lunn in accordance with this requirement is presented in **Appendix Z**.

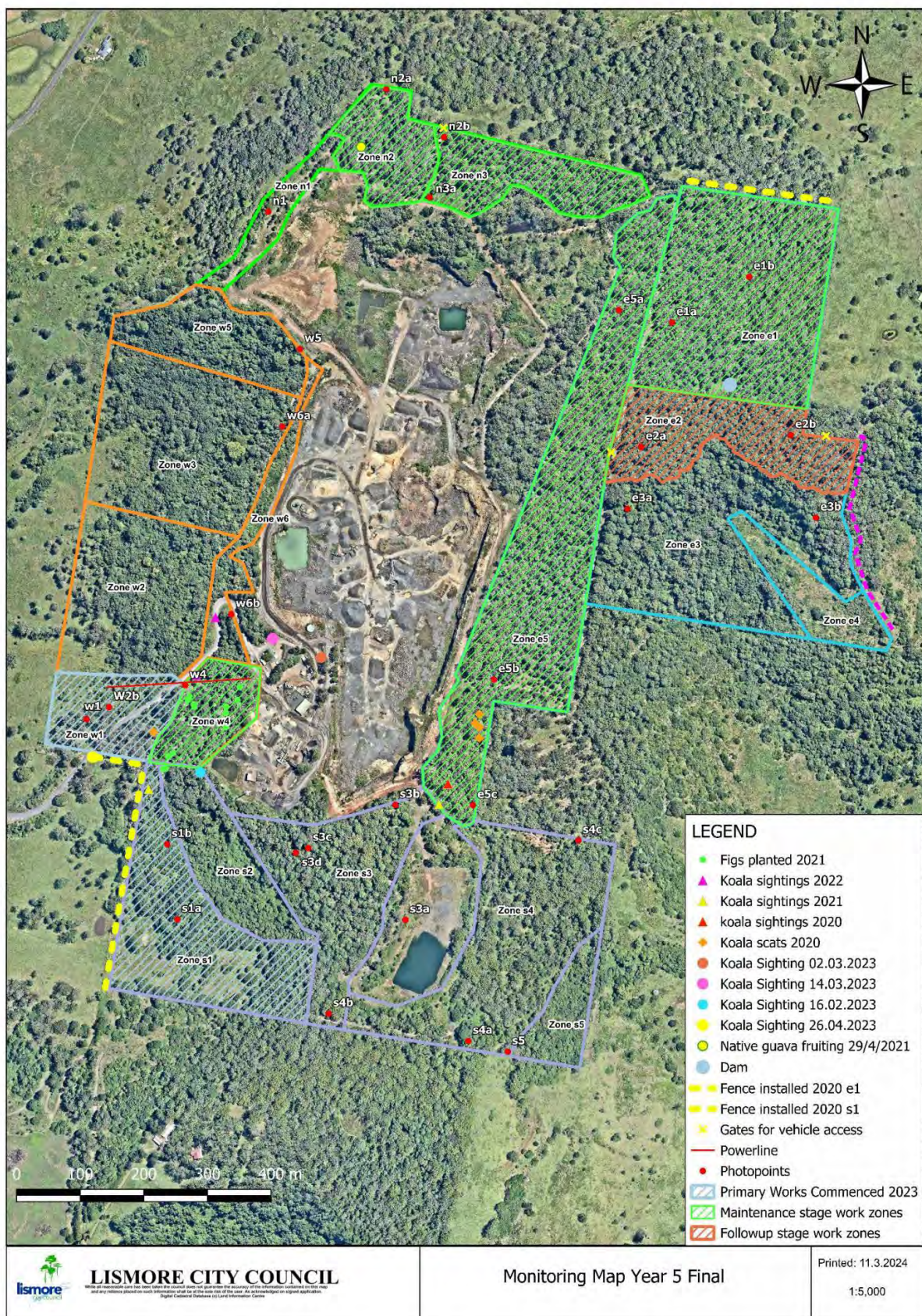
During the monitoring period, work comprised of regular spot sprays within the completed northern and eastern zones adjacent to the main pit (n2, n3, e1, e5) and zone w4 adjacent to the quarry access road. All key performance indicators were assessed as being satisfied, and regeneration work was assessed to be progressing as planned.

Primary works in Core Koala Habitat Zone e2 were completed at the end of December 2023, with ongoing follow ups being conducted. Primary works were commenced in zones w1 and s1.

Regeneration of both primary and secondary koala food species were noted to be evident within Core Koala Habitat Zones n2, n3, e5, e1, w1, and e2. There were four koala sightings during the monitoring period, although the BRPMR recommends that a koala survey to monitor the population is undertaken, as the number of incidental sightings is not considered to be a reliable measure of whether koalas are still utilising the site in some way.



Illustration 2.5 Bush Regeneration Monitoring Map (Lunn, 2023)





2.4.31 Schedule 3 – Condition 29 (Biodiversity and Rehabilitation Bond)

Condition

Within 6 months of the approval of the Biodiversity and Rehabilitation Management Plan, the Proponent must lodge a Biodiversity and Rehabilitation Bond with the Department to ensure that the Biodiversity Offset Strategy and rehabilitation of the site are implemented in accordance with the performance and completion criteria set out in the plan and the relevant conditions of this approval. The sum of the bond must be determined by:

- (a) calculating the full cost of implementing the Biodiversity Offset Strategy;*
- (b) calculating the cost of rehabilitating all disturbed areas of the site, taking into account the likely surface disturbance over the next 3 years of quarrying operations; and*
- (c) employing a suitably qualified quantity surveyor or other expert to verify the calculated costs, to the satisfaction of the Secretary.*

Notes:

Alternative funding arrangements for long term management of the Biodiversity Offset Strategy, such as provision of capital and management funding as agreed by BCD as part of a BioBanking Agreement, or transfer to conservation reserve estate can be used to reduce the liability of the Biodiversity and Rehabilitation Bond.

If capital and other expenditure required by the Biodiversity and Rehabilitation Management Plan is largely complete, the Secretary may waive the requirement for lodgement of a bond in respect of the remaining expenditure.

If the Biodiversity Offset Strategy and/ or rehabilitation of the site area are completed (or partially completed) to the satisfaction of the Secretary, then the Secretary will release the bond (or relevant part of the bond). If the Biodiversity Offset Strategy and rehabilitation of the site are not completed to the satisfaction of the Secretary, then the Secretary will call in all or part of the bond and arrange for the completion of the relevant work.

Compliance Statement

This condition was complied with prior to the reporting period.

2.4.32 Schedule 3 – Condition 30 (Biodiversity and Rehabilitation Bond)

Condition

Within 3 months of each Independent Environmental Audit (see Condition 12 of Schedule 5), the Proponent must review, and if necessary, revise, the sum of the Biodiversity and Rehabilitation Bond to the satisfaction of the Secretary. This review must consider the:

- (a) effects of inflation;*
- (b) likely cost of implementing the Biodiversity Offset Strategy and rehabilitating all disturbed areas of the site (taking into account the likely surface disturbance over the next 3 years of the project); and*



- (c) *performance of the implementation of the Biodiversity Offset Strategy and rehabilitation of the site to date.*

Compliance Statement

An Independent Environmental Audit (IEA) was completed in July 2022 as per Schedule 5 Condition 12. Following the completion of the IEA, LCC conducted a review of the Biodiversity and Rehabilitation Bond. The DPE advised that they had accepted the amount calculated. Payment of the outstanding amount was completed on 2 July 2023.

2.4.33 Schedule 3 – Condition 31 (Visual)

Condition

The Proponent must implement all reasonable and feasible measures to minimise the visual and off-site lighting impacts of the project to the satisfaction of the Secretary.

Compliance Statement

Quarry operations are located below the tree line and do not intrude on the landscape of visual character of the locality. LCC advises that they are not aware of any complaints with respect to visual impacts associated with the Quarry.

2.4.34 Schedule 3 – Condition 32 (Waste)

Condition


The Proponent must:

- (a) *manage on-site sewage treatment and disposal in accordance with the requirements of its EPL, and to the satisfaction of the EPA and Council;*
- (b) *minimise the waste generated by the project;*
- (c) *ensure that the waste generated by the project is appropriately stored, handled, and disposed of; and*
- (d) *report on waste management and minimisation in the Annual Review, to the satisfaction of the Secretary.*

Compliance Statement

LCC advises that, during the reporting period, waste management practices at the Quarry involved the following:

- Waste generated by staff is separated into general waste and recyclables and collected by LCC 'standard' waste collection service weekly.
- Any asphalt product generated from plant startup/ shutdown is reprocessed into product designs to be reused and sold.
- Used chemicals drums/ containers are stored in the Dangerous Goods Package Store until transported to the Wyrallah Road Waste Management Facility by Quarry staff in a light vehicle.

- 
- Water required for amenities is sourced from the on-site water tank. On-site wastewater is collected in the septic tank. A local company specialising in liquid waste removal is engaged to remove contents via pumping to their truck and subsequent disposal at LCC Wastewater Treatment Plant.
 - On-site sewage is inspected by plumbing contractors twice yearly.
 - Gross pollutant trap capturing the runoff from the truck washdown, and refuelling area is inspected regularly and pumped every six months or as needed. A local company specialising in liquid waste removal is engaged to remove contents via pumping to their truck and subsequent disposal at LCC Wastewater Treatment Plant

2.4.35 Schedule 3 – Condition 33 (Waste)

Condition

Except as expressly permitted in an EPL, the Proponent must not receive waste at the site for storage, treatment, processing, reprocessing or disposal.

Compliance Statement

LCC advises that between October and December 2021, approximately 4,249.12 tonnes of excavated public road material was brought onto site. This incident of non-compliance was self-reported by LCC in 2021. Throughout 2022, approximately 79.8% (3390.68 tonnes) was removed from the site. Throughout 2023, approximately 18.1 % (768.92 tonnes) was removed from the site. Removal will continue until no material remains.

2.4.36 Schedule 3 – Condition 34 (Liquid Storage)

Condition

The Proponent must ensure that all tanks and similar storage facilities (other than for water) are protected by appropriate bunding or other containment, in accordance with the relevant Australian Standards.

Compliance Statement

Liquids within the chemical storage shed and Asphalt Plant (i.e., oils, greases, lubricants) are stored on pallet bunds or other containment. Fuel is stored in a 10,000 L self-bunded diesel tank. A 40,000 L High Modulus Coating (EME) binder tank and 4000 L hot mix asphalt tank are stored within a concrete block bund.

2.4.37 Schedule 3 – Condition 35 (Dangerous Goods)

Condition

The Proponent must ensure that the storage, handling, and transport of dangerous goods is done in accordance with the relevant Australian Standards, particularly AS1940 and AS1596, and the Dangerous Goods Code.

Compliance Statement



Dangerous goods are stored in a Dangerous Goods Package Store, which consists of a bunded bulk container. Dangerous goods are stored in accordance with the relevant standards.

2.4.38 Schedule 3 – Condition 36 (Bushfire)

Condition

The Proponent must:

- (a) ensure that the project is suitably equipped to respond to any fires on site; and*
- (b) assist the Rural Fire Service and emergency services to the extent practicable if there is a fire in the vicinity of the site.*

Compliance Statement

- (a) As per the Emergency Response Plan (2022), ongoing training in fire and emergency response is provided to Quarry staff, and emergency drills are held every 6 months. Dry powder, water and foam extinguishers are available for on-site fires.
- (b) A 17,600 L water truck is on site and can be used to assist RFS and emergency services in the event of a fire.



2.5 Schedule 4 – Additional Procedures

2.5.1 Schedule 4 – Condition 1 (Notification of Landowners)

Condition

As soon as practicable, and no longer than 7 days, after obtaining monitoring results showing:

- *an exceedance of any criteria in Schedule 3, the Proponent must notify the affected landowners in writing of the exceedance, and provide regular monitoring results, at least every 3 months, to each affected landowner until the project is again complying with the relevant criteria; and*
- *an exceedance of any air quality criteria in Schedule 3, the Proponent must send a copy of the NSW Health fact sheet entitled “Mine Dust and You” (as may be updated from time to time) to the affected landowners and current tenants of the land (including the tenants of land which is not privately-owned).*

Compliance Statement

There were three relevant exceedances of criteria contained within Schedule 3 within the reporting period:

- Noise exceedance - 27 June 2023 (refer to **Section 2.4.4**)
LCC was made aware of the exceedance on 27 June 2023. On 4 July LCC notified the affected landholders in writing of the exceedance and provided them with a copy of the monitoring report. Supplementary monitoring was undertaken in August 2023, with results supplied to LCC on 24 September 2023. This report was supplied to the affected landholder on 27 September 2023.
- Dust exceedance - 18/09/2023 - 16/10/2023 (refer to **Section 2.4.11**)
LCC was made aware of the exceedance on 26 October 2023. On 2 November 2023 LCC notified the affected landholders in writing of the exceedance and provided them with a copy of the *Mine Dust and You* factsheet.
- Dust exceedance - 11/12/2023 - 08/01/2024 (refer to **Section 2.4.11**)
LCC was made aware of the exceedance on 16 January 2024. On 23 January 2024 LCC notified the affected landholders in writing of the exceedance and provided them with a copy of the *Mine Dust and You* factsheet.

2.5.2 Schedule 4 – Condition 2 (Independent Review)

Condition

If an owner of privately-owned land considers the project to be exceeding the relevant criteria in Schedule 3, then he/ she may ask the Secretary in writing for an independent review of the impacts of the project on his/ her land. If the Secretary is satisfied that an independent review is warranted, then within 2 months of the Secretary’s decision, the Proponent must:

- (a) *commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Secretary, to:*
 - *consult with the landowner to determine his/ her concerns;*
 - *conduct monitoring to determine whether the project is complying with the relevant criteria in Schedule 3; and*



- *if the project is not complying with these criteria, then identify measures that could be implemented to ensure compliance with the relevant criteria; and*
- (b) *give the Secretary and landowner a copy of the independent review; and*
- (c) *comply with any written requests made by the Secretary to implement any findings of the review.*

Compliance Statement

LCC advises that the Secretary did not request an independent review of the impacts of the project.

2.5.3 Schedule 4 – Condition 3 (Property Inspections)

Condition

Prior to 30 June 2010, the Proponent must advise all owners of privately-owned land within 2 kilometres of proposed blasting activities, and any other landowner nominated by the Secretary, that they are entitled to a property inspection to establish the baseline condition of the property.

Compliance Statement

LCC advises that this condition was complied with prior to the 2023 monitoring period.

2.5.4 Schedule 4 – Condition 4 (Property Inspections)

Condition

If the Proponent receives a written request for a property inspection from any such landowner, the Proponent must:

- (a) *commission a suitably qualified person, whose appointment has been approved by Secretary, to inspect and report on the condition of any building or structure on the land, and recommend measures to mitigate any potential blasting impacts; and*
- (b) *give the landowner a copy of this property inspection report.*

Note: It is preferable for the property inspection to be carried out prior to the commencement of blasting activities on the site, and the Proponent should facilitate this occurring wherever possible.

Compliance Statement

As required by Schedule 4 Condition 3, Council afforded neighbours an opportunity for property inspections. Subsequently Council received several written requests for property inspections, this was completed in 2012.

2.5.5 Schedule 4 – Condition 5 (Property Investigations)

Condition

If any owner of privately-owned land within 2 kilometres of proposed blasting activities, or any other landowner nominated by the Secretary, claims that his/ her property, including vibration-sensitive



infrastructure such as water supply or underground irrigation mains, has been damaged as a result of blasting at the project, the Proponent shall within 3 months of receiving this request:

- (a) commission a suitably qualified person whose appointment has been approved by the Secretary to investigate the claim and prepare a property investigation report; and*
- (b) give the landowner a copy of the report.*

If this independent investigation confirms the landowner's claim, and both parties agree with these findings, then the Proponent shall repair the damage to the satisfaction of the Secretary.

If the Proponent or landowner disagrees with the findings of the independent property investigation, then either party may refer the matter to the Secretary for resolution.

Compliance Statement

No property investigations were requested during the monitoring period.



2.6 Schedule 5 – Environmental Management, Reporting & Auditing

2.6.1 Schedule 5 – Condition 1 (Environmental Management Strategy)

Condition

The Proponent must prepare an Environmental Management Strategy for the project to the satisfaction of the Secretary. This strategy must:

- (a) be submitted to the Secretary for approval within 6 months of the Secretary requiring preparation of the strategy by notice to the Proponent;*
- (b) provide the strategic framework for environmental management of the project;*
- (c) identify the statutory approvals that apply to the project;*
- (d) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the project;*
- (e) describe the procedures to be implemented to:*
 - *keep the local community and relevant agencies informed about the operation and environmental performance of the project;*
 - *receive, record, handle and respond to complaints;*
 - *resolve any disputes that may arise during the course of the project;*
 - *respond to any non-compliance;*
 - *respond to emergencies; and*
- (f) include:*
 - *copies of any strategies, plans and programs approved under the conditions of this approval; and*
 - *a clear plan depicting all the monitoring to be carried out under the conditions of this approval.*

The Proponent must implement any Environmental Management Strategy as approved from time to time by the Secretary.

Compliance Statement

The Environmental Management Strategy (EMS) for the Quarry was updated throughout the monitoring period and endorsed by the Secretary in January 2024. A copy of the updated strategy (Rev 4.3) is available on the LCC website.

2.6.2 Schedule 5 – Condition 2 (Evidence of Consultation)

Condition

Where consultation with any State or local agency is required by the conditions of this approval, the Proponent must:



- (a) *consult with the relevant agency prior to submitting the required document to the Secretary for approval;*
- (b) *submit evidence of this consultation as part of the relevant document;*
- (c) *describe how matters raised by the agency have been addressed and any matters not resolved; and*
- (d) *include details of any outstanding issues raised by the agency and an explanation of disagreement between any agency and the Proponent.*

Compliance Statement

Noted. During the lifetime of the Quarry, several management plans requiring consultation with various state or local agencies have been developed and endorsed by the Secretary prior to the 2023 monitoring period.

2.6.3 Schedule 5 – Condition 3 (Management Plan Requirements)

Condition

The Proponent must ensure that the management plans required under this approval are prepared in accordance with any relevant guidelines, and include:

- (a) *detailed baseline data;*
- (b) *a description of:*
 - *the relevant statutory requirements (including any relevant approval, licence or lease conditions);*
 - *any relevant limits or performance measures/ criteria; and*
 - *the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the project or any management measures;*
- (c) *a description of the measures that to be implemented to comply with the relevant statutory requirements, limits, or performance measures/ criteria;*
- (d) *a program to monitor and report on the:*
 - *impacts and environmental performance of the project; and*
 - *effectiveness of any management measures (see (c) above);*
- (e) *a contingency plan to manage any unpredicted impacts and their consequences and to ensure that ongoing impacts reduce to levels below relevant impact assessment criteria as quickly as possible;*
- (f) *a program to investigate and implement ways to improve the environmental performance of the project over time;*
- (g) *a protocol for managing and reporting any:*
 - *incidents;*

- complaints;
- non-compliances with statutory requirements; and
- exceedances of the impact assessment criteria and/ or performance criteria; and

(h) a protocol for periodic review of the plan.

Note: The Secretary may waive some of these requirements if they are unnecessary or unwarranted for particular management plans.

Compliance Statement

A review of the management plans implemented during the reporting period indicates that they have been prepared in accordance with the relevant guidelines.

2.6.4 Schedule 5 – Condition 4 (Application of Existing Management Plans)

Condition

The Proponent must continue to apply existing approved management plans, strategies or monitoring programs that have most recently been approved under this approval, until the approval of a similar plan, strategy or program under this approval.

Compliance Statement

LCC advises that the most recently approved versions of management plans, strategies and monitoring programs are being applied.

2.6.5 Schedule 5 – Condition 4A (Revision of Strategies, Plans & Programs)

Condition

Within 3 months of the submission of an:

- (a) incident report under condition 9 below;
- (b) Annual Review under condition 11 below;
- (c) audit report under condition 12 below; and
- (d) any modifications to this approval,

The Proponent must review the strategies, plans and programs required under this approval, to the satisfaction of the Secretary. The proponent must notify the Department in writing of any such review being undertaken. Where this review leads to revisions in any such document, then within 6 weeks of the review the revised document must be submitted for the approval of the Secretary.

Note: The purpose of this condition is to ensure that strategies, plans and programs are regularly updated to incorporate any measures recommended to improve environmental performance of the project.



Compliance Statement

LCC advises that the following strategies, plans, and programs required under this approval were reviewed, submitted to DPE for review on 22 September 2022:

- NBMP – endorsed by the Secretary on 20/10/2022
- AHMP – endorsed by the Secretary on 18/8/2023
- AQMP – endorsed by the Secretary on 16/1/2024
- EMS – endorsed by the Secretary on 2/2/2024
- OTMP – endorsed by the Secretary on 27/2/2024
- BRMP - awaiting final review
- SWMP - awaiting final review

2.6.6 Schedule 5 – Condition 5 (Update to Strategies, Plans or Programs)

Condition

To ensure that strategies, plans or programs required under this approval are updated on a regular basis, and that they incorporate any appropriate additional measures to improve the environmental performance of the project, the Proponent may at any time submit revised strategies, plans or programs for the approval of the Secretary. With the agreement of the Secretary, the Proponent may also submit any strategy, plan or program required by this approval on a staged basis. The Secretary may approve a revised strategy, plan or program required under this approval, or the staged submission of any of these documents, at any time. With the agreement of the Secretary, the Proponent may prepare the revised or staged strategy, plan or program without undertaking consultation with all parties nominated under the applicable condition in this approval. While any strategy, plan or program may be submitted on a staged basis, the proponent will need to ensure that the operations associated with the project are covered by suitable strategies, plans or programs at all times.

If the submission of any strategy, plan or program is to be staged; then the relevant strategy, plan or program must clearly describe the specific stage/ s of the project to which the strategy, plan or program applies; the relationship of this stage/ s to any future stages; and the trigger for updating the strategy, plan or program.

Compliance Statement

Noted.

2.6.7 Schedule 5 – Condition 6 (Adaptive Management)

Condition

The Applicant must assess and manage development-related risks to ensure that there are no exceedances of the criteria and performance measures in this consent. Any exceedance of these criteria or performance measures constitutes a breach of this consent and may be subject to penalty or offence provisions under the EP&A Act or EP&A Regulation.

Where any exceedance of these criteria or performance measures has occurred, the Applicant must, at the earliest opportunity:



- (a) take all reasonable and feasible steps to ensure that the exceedance ceases and does not recur;*
- (b) consider all reasonable and feasible options for remediation (where relevant) and submit a report to the Department describing those options and any preferred remediation measures or other course of action; and*
- (c) implement reasonable remediation measures as directed by the Planning Secretary.*

Compliance Statement

There were five exceedances of criteria contained within Schedule 3 within the reporting period:

- **Noise exceedance – 27 June 2023 (refer to **Section 2.4.4**)**
LCC was made aware of the exceedance on 27 June 2023. On 4 July LCC notified the affected landholders in writing of the exceedance and provided them with a copy of the monitoring report. Supplementary monitoring was undertaken in August 2023, with results supplied to LCC on 24 September 2023. This report was supplied to the affected landholder on 27 September 2023. Equipment was upgraded and traffic flow management on site was altered to reduce the risk of a recurrence.
- **Dust exceedance – 18/09/2023 - 16/10/2023 (refer to **Section 2.4.11**)**
LCC was made aware of the exceedance on 26 October 2023. On 2 November 2023 LCC notified the affected landholders in writing of the exceedance and provided them with a copy of the *Mine Dust and You* factsheet. Dust suppression activities continued during operations.
- **Dust exceedance – 11/12/2023 - 08/01/2024 (refer to **Section 2.4.11**)**
LCC was made aware of the exceedance on 16 January 2024. On 23 January 2024 LCC notified the affected landholders in writing of the exceedance and provided them with a copy of the *Mine Dust and You* factsheet. Dust suppression activities continued during operations.

2.6.8 Schedule 5 – Condition 7 (Community Consultative Committee)

Condition

The Proponent must establish and operate a Community Consultative Committee (CCC) for the project to the satisfaction of the Secretary. The CCC must be operated in general accordance with the Department's Community Consultative Committee Guidelines, November 2016 (or later version).

Notes:

- *The CCC is an advisory committee. The Department and other relevant agencies are responsible for ensuring that the Proponent complies with this approval.*
- *In accordance with the guidelines, the Committee should comprise an independent chair and appropriate representation from the Proponent, Council and the local community.*

Compliance Statement

During the monitoring period, LCC operated a CCC in accordance with the Community Consultative Committee Guideline for State Significant Projects (2019 and 2023). The meeting minutes are publicly available on the LCC website. The minutes from the 2023 CCC meeting are presented in **Appendix AA**.



2.6.9 Schedule 5 – Condition 8 (Incident Notification)

Condition

The Proponent must immediately notify the Department and any other relevant agencies immediately after it becomes aware of an incident. The notification must be in writing via the Major Projects Website and identify the development (including the development application number and name) and set out the location and nature of the incident.

Compliance Statement

Under the Approval, an incident is defined as:

An occurrence or set of circumstances that causes or threatens to cause material harm and which may or may not be or cause a non-compliance.

While six non-compliances were identified within the reporting period, these incidents did not cause or threaten to cause material harm.

2.6.10 Schedule 5 – Condition 9 (Non-Compliance Notification)

Condition

Within seven days of becoming aware of a non-compliance, the Applicant must notify the Department of the non-compliance. The notification must be in writing via the Major Projects Website and identify the development (including the development application number and name), set out the condition of this consent that the development is non-compliant with, the way in which it does not comply and the reasons for the non-compliance (if known) and what actions have been, or will be, undertaken to address the non-compliance.

Compliance Statement

There were six identified instances of non-compliance within the reporting period. These are detailed in **Sections 2.4.3, 2.4.4, 2.4.11, and 2.4.20**. All non-compliances were self-reported to the DPE in writing via the Major Projects Website within seven days of LCC becoming aware of the non-compliance.

2.6.11 Schedule 5 – Condition 10 (Regular Reporting)

Condition

The Proponent must provide regular reporting on the environmental performance of the project on its website, in accordance with the reporting arrangements in any plans or programs approved under the conditions of this approval.

Compliance Statement

The LCC website contains comprehensive information regarding the environmental performance of the project, including the Annual Environmental Monitoring Reports and past Environmental Audits.



2.6.12 Schedule 5 – Condition 11 (Annual Review)

Condition

By the end of March each year, or other timing as may be agreed by the Secretary, the Proponent must submit a review to the Department reviewing the environmental performance of the project to the satisfaction of the Secretary. This review must:

- (a) describe the project (including any progressive rehabilitation) that was carried out in the previous calendar year, and the project that is proposed to be carried out over the current calendar year;*
- (b) include a comprehensive review of the monitoring results and complaints records of the project over the previous calendar year, which includes a comparison of these results against the:*
 - *relevant statutory requirements, limits or performance measures/ criteria;*
 - *requirements of any plan or program required under this approval;*
 - *monitoring results of previous years; and*
 - *relevant predictions in the documents listed in condition 2(a) of Schedule 2;*
- (c) evaluate and report on:*
 - *the effectiveness of the air quality and noise management systems; and*
 - *compliance with the performance measures, criteria and operating conditions in this approval.*
- (d) identify any non-compliance over the past calendar year, and describe what actions were (or are being) taken to ensure compliance;*
- (e) identify any trends in the monitoring data over the life of the project;*
- (f) identify any discrepancies between the predicted and actual impacts of the project, and analyse the potential cause of any significant discrepancies;*
- (g) describe what measures will be implemented over the current calendar year to improve the environmental performance of the project.*

The Proponent must ensure that copies of the Annual Review are submitted to Council and are available to the Community Consultative Committee (see condition 7 of Schedule 5) and any interested person upon request.

Compliance Statement

The 2022 AEMR was submitted to the DPE on 30 March 2023. On 5 April 2023, the DPE advised that the 2022 AEMR had been reviewed. A copy of this response is provided within **Appendix C**. The DPE commented that the AEMR generally satisfied the reporting requirements of the Approval and the Department's Annual Review Guideline. The 2023 AEMR is due for submission to the DPHI by 31 March 2023.

Table 2. identifies the relevant sections in which the above items are addressed.

Table 2.11 Sections relevant to Schedule 5 Condition 11

Item	Relevant Section
(a) – (f)	Section 2
(d)	Section 3.1.
(g)	Section 3.3.

2.6.13 Schedule 5 – Condition 12 (Independent Environmental Audit)

Condition

Within three years of the date of grant of this project approval, and every 3 years thereafter, unless the Secretary directs otherwise, the Proponent must commission, commence and pay the full cost of an Independent Environmental Audit of the project. This audit must:

- (a) be led and conducted by a suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary;*
- (b) include consultation with the relevant agencies and the CCC;*
- (c) assess the environmental performance of the project and whether it is complying with the relevant requirements in this approval and any relevant EPL or necessary water licences for the project (including any assessment, strategy, plan or program required under these approvals);*
- (d) review the adequacy of strategies, plans or programs required under the abovementioned approvals;*
- (e) recommend appropriate measures or actions to improve the environmental performance of the project, and/ or any assessment, strategy, plan or program required under the abovementioned approvals; and*
- (f) be conducted and reported to the satisfaction of the Secretary.*

Compliance Statement

An Independent Environmental Audit (IEA) of the Quarry was undertaken and submitted to the DPE in July 2022. LCC advises that the DPE have written to Council on 12 September 2022, confirming that the report satisfies the requirements of the conditions of approval.

2.6.14 Schedule 5 – Condition 13 (Implementation of Audit Recommendations)

Condition

Within 12 weeks of commencing this audit, or as otherwise agreed by the Secretary, the Proponent must submit a copy of the audit report to the Secretary and any other NSW agency that requests it, together with its response to any recommendations contained in the audit report, and a timetable for the implementation of these recommendations as required. The Proponent must implement these recommendations, to the satisfaction of the Secretary.



Compliance Statement

Two recommended actions were identified within the IEA to remedy instances of non-compliance or opportunities for improvement:

- The driver and visitor induction document should be amended to include references to requirements listed within Schedule 3 Condition 22, namely:
 - c) ensure that all laden trucks exiting the site are cleaned of material that may fall from vehicles, before leaving the site; and*
 - d) use its best endeavours to ensure that appropriate signage is displayed on all trucks used to transport product from the project so they can be easily identified by road users.*
- Required records of compliance with all conditions of approval should be kept and maintained. This recommendation was in response to the absence of evidence of the BDMP being prepared by a suitably qualified person.

LCC advises that these recommended actions were implemented prior to the reporting period.

2.6.15 Schedule 5 – Condition 14 (Access to Information)

Condition

Within 3 months of the determination of Modification 1, until the completion of all works, including rehabilitation and remediation the Proponent must:

- (a) *make the following information publicly available on its website:*
 - *the documents listed in condition 2(a) of Schedule 2;*
 - *current statutory approvals for the project;*
 - *all approved strategies, plans and programs required under the conditions of this approval;*
 - *a comprehensive summary of the monitoring results of the project, reported in accordance with the specifications in any conditions of this approval, or any approved plans and programs;*
 - *a complaints register, updated monthly;*
 - *the annual reviews of the project;*
any independent environmental audit as described in condition 12 above, and the Proponent's response to the recommendations in any audit; and
 - *any other matter required by the Secretary; and*
- (b) *keep this information up-to-date, to the satisfaction of the Secretary.*

Compliance Statement

Appendix BB provides a schedule confirming that the information listed above is available on the LCC website.

Appendix N provides a copy of the Complaint Register for the reporting period. The register is available on the LCC website and has been updated monthly as required.

2.7 Appendix 5 – Noise Compliance Assessment

2.7.1 Appendix 5 – Condition 1 (Applicable Meteorological Conditions)

Condition

The noise criteria in Table 2 are to apply under all meteorological conditions except the following:

- (a) *wind speeds greater than 3 m/ s at 10 m above ground level; or*
- (b) *temperature inversion conditions between 1.5°C and 3°C/100 m and wind speed greater than 2 m/s at 10 m above ground level; or*
- (c) *temperature inversion conditions greater than 3°C/100 m.*

Table 2: Noise criteria dB(A)

Receiver	Day
	<i>L_{Aeq} (15 minute)</i>
Location 2 and Location 7	36
All other locations	35



Compliance Statement

Noted.

2.7.2 Appendix 5 – Condition 2 (Determination of Meteorological Conditions)

Condition

Except for wind speed at microphone height, the data to be used for determining meteorological conditions must be that recorded by the meteorological station required under Condition 13 of Schedule 3.

Compliance Statement

The meteorological station was installed onsite in early 2018. The 2023 Noise Monitoring Report (refer to **Appendix I**) includes reference to the on-site weather data as well as available external meteorological data.

2.7.3 Appendix 5 – Condition 3 (Compliance Monitoring)

Condition

A noise compliance assessment must be undertaken within two months of commencing mining operations under EA (Mod 1). The assessment must be conducted by a suitably qualified and experienced acoustical practitioner and must assess compliance with the noise criteria in Table 2. A report must be provided to the Secretary and EPA within 1 month of the assessment.

Compliance Statement

Mod 1 was approved in September 2017. The required noise compliance assessment was completed in November 2017 in accordance with this requirement.

2.7.4 Appendix 5 – Condition 4 (Compliance Monitoring)

Condition

Unless the Secretary agrees otherwise, this monitoring is to be carried out in accordance with the relevant requirements for reviewing performance set out in the NSW Industrial Noise Policy (as amended from time to time), in particular the requirements relating to:

- (a) *monitoring locations for the collection of representative noise data;*
- (b) *equipment used to collect noise data, and conformity with Australian Standards relevant to such equipment;*
- (c) *modifications to noise data collected, including for the exclusion of extraneous noise and/ or penalties for modifying factors apart from adjustments for duration; and*
- (d) *the use of an appropriate modifying factor for low frequency noise to be applied during compliance testing. This should be undertaken in accordance with Fact Sheet C of the NSW Noise Policy for Industry (EPA, 2017).*



Compliance Statement

The 2023 Noise Assessment has been completed in accordance with the NSW Industrial Noise Policy. The Noise monitoring report is provided at **Appendix I**.



3. Summary of Findings and Actions

3.1 Summary of Non-Compliances

As per Item (d) of Schedule 5 Condition 11 (refer to **Section 2.6.12**), this AEMR is required to identify any non-compliance over the past calendar year, and describe what actions were (or are being) taken to ensure compliance.

This AEMR has reported on six non-compliances, as summarised below.

3.1.1 Non-compliance 1 – Out of Hours Work Notification

The relevant condition (Schedule 3 Condition 2A) is reproduced in **Section 2.4.3**, and additional details are also provided in the same section.

Findings

The Asphalt Plant operator failed to notify LCC and the EPA at least seven days' prior to undertaking out-of-hours work on six occasions between July and October. Internal investigations identified that this incidence of non-compliance was primarily due to Asphalt Plant Operators not being aware of their obligations under the OHWP, EPL 3384, and Project Approval MP07 0020. Following the incident, the Asphalt Plant Operator implemented measures to mitigate further non-compliance.

Recommendation

LCC has investigated the matter and implemented appropriate actions. No further action is recommended.

3.1.2 Non-compliance 2 – Noise Exceedance

The relevant condition (Schedule 3 Condition 3) is reproduced in **Section 2.4.4**, and additional details are also provided in the same section.

Findings

During routine noise monitoring in June, the measured noise levels at Receiver 8 exceeded the day, evening and nighttime noise limit criteria of 35dB(A) $L_{Aeq,15min}$. The Asphalt Plant was identified as the contributor to the exceedances. The exceedances were 5.6 decibels for the daytime, 0.3 decibels for the evening, and 2.3 decibels for the nighttime. The fans were upgraded within the Asphalt Plant and modified the flow of trucks during out-of-hours work to reduce the noise attributable to reversing beepers.

Recommendation

As per the Noise Assessment Reports, it is recommended that noise monitoring be conducted at Receiver 8 when work in the southern cell is undertaken, to assess the noise impact at Receiver 8.



3.1.3 Non-compliance 3 – Blast Notification

The relevant condition (Schedule 3 Condition 10) is reproduced in **Section 2.4.9**, and additional details are also provided in the same section.

Findings

Between 2:30 pm - 3:12 pm on 15 March 2023, sensitive receivers were notified of an upcoming blast. The blast was executed at 12:15 pm on 16 March 2023. This provided sensitive receivers with between 21 - 22 hours' notice. Sensitive receivers require a minimum of 24 hours' notice prior to blasting activities.

Recommendation

LCC has investigated the matter and implemented appropriate actions. No further action is recommended.

3.1.4 Non-compliance 4 – Dust Exceedance 1

The relevant condition (Schedule 3 Condition 10) is reproduced in **Section 2.4.11**, and additional details are also provided in the same section.

Findings

During exposure period 18/09/2023 - 16/10/2023, ash deposits at monitoring gauge D3 were 10.3 g/m²/month. This exceeds the allowable criteria (ash > 4 g/m²/month) as stipulated by Schedule 3 Condition 10. During the 2023 monitoring period, dust deposition gauge D3 was relocated closer to Boorerie Creek Road to address safety concerns with regards to property access and the presence of dogs. During the exposure period, the predominant winds were from the northeast. The Quarry is located to the northwest.

Recommendation

LCC has investigated the matter and implemented appropriate actions. No further action is recommended.

3.1.5 Non-compliance 5 – Dust Exceedance 2

The relevant condition (Schedule 3 Condition 10) is reproduced in **Section 2.4.11**, and additional details are also provided in the same section.

Findings

During exposure period 11/12/2023 - 08/01/2024, ash deposits at monitoring gauge D3 were 9.3 g/m²/month. This exceeds the allowable criteria (ash > 4 g/m²/month) as stipulated by Schedule 3 Condition 10. During the 2023 monitoring period, dust deposition gauge D3 was relocated closer to Boorerie Creek Road to address safety concerns with regards to property access and the presence of dogs. During the exposure period, the predominant winds were from the northeast. The Quarry is located to the northwest.



Recommendation

LCC has investigated the matter and implemented appropriate actions. No further action is recommended.

3.1.6 Non-compliance 6 – Groundwater Exceedances

The relevant condition (Schedule 3 Condition 19) is reproduced in **Section 2.4.20**, and additional details are also provided in the same section.

Findings

Throughout 2023, exceedances of lead, iron, oil, and grease were recorded at several monitoring bores. Following review of the annual data, LCC engaged Ecoteam to undertake a groundwater investigation to identify the potential sources of contamination. Ecoteam determined that sources of lead and iron were of natural origin and the exceedances were correlated with rainfall.

Recommendation

As per the groundwater investigation:

It is recommended that, if total oils and grease is identified above the trigger limits during the next round of sampling, that silica gel clean-up should be undertaken to ascertain if the source is of natural occurrence or pollution related.

3.2 Status of Actions Identified in 2022 AEMR

Section 3.1 of the 2022 AEMR identified actions to improve environmental performance. **Table 3.1** presents the actions and the corresponding current progress status based on information provided in this AEMR and advice from LCC.

Table 3.1 Actions Planned for 2023 and Status

Action Reference	Action	Current Progress Status
2022 AEMR Section 3.1.3	A concrete footing is to be installed at blast monitoring location 8 to enable more accurate measurements of blasting parameters.	Monitoring at this location has been secured and undertaken to the satisfaction of DPHI. No further blasting exceedances have been recorded at this site.
2022 AEMR Section 3.1.6	Any reasonable remediation measures are to be implemented, following the investigation into the sources of lead within the groundwater.	An investigation was undertaken by Ecoteam (refer to Appendix Y). Ecoteam determined that the exceedances were driven by rainfall and weathering of the surrounding regolith.



3.3 Recommendations for Environmental Performance

As per Item (g) of Schedule 5 Condition 11 (refer to **Section 2.6.12**), this AEMR is required to describe what measures will be implemented over the current calendar year to improve the environmental performance of the project.

A list of recommended measures to improve the environmental performance of the Quarry, with reference to the relevant technical document, is provided as follows:

- As per Chapter 5 of the Supplementary Noise Assessment (refer to **Appendix L**), the following action is recommended:
 - Noise monitoring should be conducted at Receiver 8 when work in the southern cell is undertaken, to assess the noise impact at Receiver 8.
- As per Chapter 5 of the 2022 Annual Site Water Balance (refer to **Appendix T**), the following actions are recommended:
 - Ongoing training of quarry staff to consistently identify/ name the various water bodies on site in the water truck usage log.
 - Recording of days of zero water use (to remove uncertainty over whether records were kept on days with no recorded usage).
 - Accurate record keeping of all water transfers and usage from all storages including the tank.
 - Following completion of Stage 2, a detailed ground survey of the catchment draining to sediment basins SB1 and SB2 (including the sediment basins) to ensure that site runoff is being directed to the correct basin for treatment.
 - Installation of water level markers in the main dam and the south pit sediment basin and regular records of all water levels (weekly during dry periods and daily following rainfall until capacity is restored) to assist in improving the reliability of water balance modelling for future reporting years.



4. Conclusion and Recommendations

This Annual Environmental Monitoring Report (AEMR) has been prepared in response to Schedule 5 Condition 11 of the Blakebrook Quarry Part 3A Approval No. 07_0020 (Mod 3). Each condition of approval has been reproduced in full and followed by a compliance statement addressing the findings.

Overall, this AEMR has found a high level of compliance with the conditions of approval.

Six non-compliances were identified:

- Out-of-hours work notification: The Asphalt Plant operator failed to notify LCC and the EPA at least seven days' prior to undertaking out-of-hours work on six occasions between July and October.
- Noise exceedance: During routine noise monitoring in June, the measured noise levels at Receiver 8 exceeded the day, evening and nighttime noise limit criteria of 35dB(A) $L_{Aeq,15min}$. The Asphalt Plant was identified as the contributor to the exceedances.
- Blast notification: Between 2:30 pm - 3:12 pm on 15 March 2023, sensitive receivers were notified of an upcoming blast. The blast was executed at 12:15 pm on 16 March 2023. This provided sensitive receivers with between 21 - 22 hours' notice. Sensitive receivers require a minimum of 24 hours' notice prior to blasting activities.
- Dust exceedance: During exposure period 18/09/2023 - 16/10/2023, ash deposits at monitoring gauge D3 were 10.3 g/m²/month. This exceeds the allowable criteria (ash > 4 g/m²/month) as stipulated by Schedule 3.
- Dust exceedance: During exposure period 11/12/2023 - 08/01/2024, ash deposits at monitoring gauge D3 were 9.3 g/m²/month. This exceeds the allowable criteria (ash > 4 g/m²/month) as stipulated by Schedule 3.
- Groundwater Exceedances: Throughout 2023, exceedances of lead, iron, oil, and grease were recorded at several monitoring bores.

Each non-compliance was reported and investigated.

As per findings in the relevant documentation, it is recommended that:

- If total oils and grease is identified above the trigger limits during the next round of sampling, that silica gel clean-up be undertaken to ascertain if the source is of natural occurrence or pollution related.
- Noise monitoring be conducted at Receiver 8 when work in the southern cell is undertaken, to assess the noise impact at Receiver 8.
- Ongoing training of quarry staff be undertaken to consistently identify/ name the various water bodies on site in the water truck usage log.
- Days of zero water use be recorded (to remove uncertainty over whether records were kept on days with no recorded usage).
- Accurate record keeping be maintained of all water transfers and usage from all storages including the tank.
- Following completion of Stage 2, a detailed ground survey of the catchment draining to sediment basins SB1 and SB2 (including the sediment basins) be undertaken to ensure that site runoff is being directed to the correct basin for treatment.
- Water level markers be installed in the main dam and the south pits sediment basin, and all water levels be regularly recorded (weekly during dry periods and daily following rainfall until capacity is restored) to assist in improving the reliability of water balance modelling for future reporting years.



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Appendix A

Project Approval 07_0020 Mod 3

Project Approval

Section 75J of the *Environmental Planning & Assessment Act 1979*

I approve the project referred to in schedule 1, subject to the conditions in schedules 2 to 5.

These conditions are required to:

- prevent, minimise, and/or offset adverse environmental impacts;
- set standards and performance measures for acceptable environmental performance;
- require regular monitoring and reporting; and
- provide for the on-going environmental management of the project.

Sam Haddad
Director-General
as delegate for the Minister for Planning

Sydney

2009

SCHEDULE 1

Application No.:

07_0020

Proponent:

Lismore City Council

Approval Authority:

Minister for Planning

Land:

Extraction Areas	Lot 53 DP1254990
Asphalt Plant	Lot 54 DP1254990
Access Road	Lot 53 DP1254990

Project:

Blakebrook Quarry Project

Red type represents May 2021 Modification

TABLE OF CONTENTS

DEFINITIONS	3
ADMINISTRATIVE CONDITIONS	5
Obligation to Minimise Harm to the Environment	5
Terms of Approval	5
Limits on Approval	5
Structural Adequacy	5
Demolition	6
Protection of Public Infrastructure	6
Operation of Plant and Equipment	6
Section 94 Contributions	6
Production Data	6
Compliance	6
Identification of Boundaries	6
SPECIFIC ENVIRONMENTAL CONDITIONS	7
Noise	7
Blasting	8
Air Quality	9
Soil and Water	10
Transport	11
Aboriginal Heritage	12
Biodiversity and Rehabilitation	12
Visual	14
Waste	14
Liquid Storage	15
Dangerous Goods	15
Bushfire	15
ADDITIONAL PROCEDURES	16
Notification of Landowners	16
Independent Review	16
Property Inspections	16
Property Investigations	16
ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING	17
Environmental Management	17
Community Consultative Committee	19
Reporting and Auditing	19
Independent Environmental Audit	19
Access to Information	20
APPENDIX 1: PROJECT LAYOUT PLAN	20
APPENDIX 2: STATEMENT OF COMMITMENTS	22
APPENDIX 3: RECEIVER LOCATION PLAN	31
APPENDIX 4: BIODIVERSITY OFFSET STRATEGY	32
APPENDIX 5: NOISE COMPLIANCE ASSESSMENT	33

DEFINITIONS

Aboriginal item or object	Any item or object that provides evidence of the use of an area by Aboriginal people, as defined under the <i>National Parks and Wildlife Act 1974</i>
Annual Review	The review required by condition 11 of Schedule 5.
AHD	Australian Height Datum
Asphalt plant operations	The transportation, on site processing and storage of material to produce asphalt paving material
BCA	Building Code of Australia
BCD	The Biodiversity and Conservation Division within the Department
Biodiversity Offset Strategy	The conservation and enhancement program as described in the EA (see also Table 5 and Appendix 4).
CCC	Community Consultative Committee
Council	Lismore City Council
Day	The period from 7am to 6pm on Monday to Saturday, and 8am to 6pm on Sundays and Public Holidays
Department	Department of Planning, Industry and Environment
DPIE Water	Water Group within the Department
EA	Environmental Assessment titled <i>Blakebrook Quarry Expansion, Environmental Assessment Report, Final Report</i> , January 2009, and the Proponent's response to submissions titled <i>Blakebrook Quarry Expansion, Response to Submissions, Final Report</i> , August 2009
EA (Mod 1)	Environmental Assessment titled <i>Blakebrook Quarry Modification Application August 2017</i>
EP&A Act	<i>Environmental Planning and Assessment Act 1979</i>
EP&A Regulation	<i>Environmental Planning and Assessment Regulation 2000</i>
EPL	Environment Protection Licence under the POEO Act
Evening	The period from 6pm to 10pm
Feasible	Feasible relates to engineering considerations and what is practical to build
Heritage NSW	Heritage Branch of the Department of Premier and Cabinet
Incident	An occurrence or set of circumstances that causes or threatens to cause material harm and which may or may not be or cause a non-compliance
INP	NSW Industrial Noise Policy (NSW EPA, 2000)
Laden	Trucks transporting quarry products from the site and/or trucks transporting topsoil or mulch to the site
Land	As defined in the EP&A Act, except where the term is used in the noise and air quality conditions in Schedules 3 and 4 of this approval, where it is defined as the whole of a lot, or contiguous lots owned by the same landowner, in a current plan registered at the Land Titles Office at the date of this approval
Material harm to the environment	Actual or potential harm to the health or safety of human beings or to ecosystems that is not trivial
MEG	Mining, Exploration and Geoscience within the Department of Regional NSW
Minister	Minister for Planning, or delegate
Mitigation	Activities associated with reducing the impacts of the project
MR (Mod 3)	Modification Report titled <i>Statement of Environmental Effects</i> dated 24 July 2019, prepared by Mitchel Hanlon Consulting Pty Ltd including the Response to Submissions dated November 2019, and additional information accompanying the Response to Submissions
Negligible	Small and unimportant, such as to be not worth considering
Night	The period from 10pm to 7am on Monday to Saturday, and 10pm to 8am on Sundays and Public Holidays
Non-compliance	An occurrence, set of circumstances or development that is a breach of this consent
POEO Act	<i>Protection of the Environment Operations Act 1997</i>
Privately-owned land	Land that is not owned by a public agency or the Proponent (or its subsidiary)
Project	The project as described in the documents listed in condition 2(a) of Schedule 2
Proponent	Lismore City Council, or its successors in title
Quarrying operations	The extraction, processing, stockpiling and transportation of extractive materials carried out on the site and the associated removal of vegetation, topsoil and overburden
Quarry products	Includes all saleable quarry products, but excludes tailings, other wastes and rehabilitation material
Reasonable	Reasonable relates to the application of judgement in arriving at a decision, taking into account: mitigation benefits, cost of mitigation versus benefits provided, community views and the nature and extent of potential improvements.
SEPP 44	<i>State Environmental Planning Policy No. 44 – Koala Habitat Protection</i>
Secretary	Planning Secretary under the EP&A Act, or nominee

Site	The land referred to in Schedule 1
TfNSW	Transport for NSW

SCHEDULE 2 ADMINISTRATIVE CONDITIONS

OBLIGATION TO MINIMISE HARM TO THE ENVIRONMENT

1. In addition to meeting the specific performance measures and criteria established under this approval, the Proponent must implement all reasonable and feasible measures to prevent or minimise any harm to the environment that may result from the construction, operation, or rehabilitation of the project.

TERMS OF APPROVAL

2. The Proponent must carry out the project:
 - (a) generally in accordance with the EA, EA (Mod 1) and MR (Mod 3); and
 - (b) in accordance with the conditions of this approval, Project Layout Plan and the Statement of Commitments.

Notes:

- The Project Layout Plan is shown in Appendix 1;
- The Statement of Commitments is reproduced in Appendix 2.

3. If there is any inconsistency between the documents in condition 2(a), the most recent document shall prevail to the extent of the inconsistency. However, the conditions of this approval shall prevail to the extent of any inconsistency.
4. The Proponent must comply with any written requirement/s of the Secretary arising from the Department's assessment of:
 - (a) any strategies, plans, programs, reviews, audits, reports or correspondence that are submitted in accordance with this approval (including any stages of these documents);
 - (b) any reviews, reports or audits undertaken or commissioned by the Department regarding compliance with this approval;
 - (c) and the implementation of any actions or measures contained in these documents.
5. By 30 June 2010, the Proponent shall surrender development consent DA 95/239 to the relevant consent authority to the satisfaction of the Secretary.

- 5A. Within 12 months of the date of commencement of development under this consent, or other timeframe agreed by the Secretary, the Proponent must surrender development consent DA90/341 to the satisfaction of the Secretary, in accordance with the EP&A Regulation.

LIMITS ON APPROVAL

6. The Proponent may carry out quarrying operations and Asphalt plant operations on the site until 31 December 2039.

Note: Under this approval, the Proponent is required to rehabilitate the site and carry out additional requirements and undertakings to the satisfaction of the Secretary. Consequently, this approval will continue to apply in all respects other than the right to conduct quarrying operations until the rehabilitation of the site and those requirements and undertakings have been carried out to the standard required by the applicable conditions.

7. The Proponent must not undertake quarrying operations below 55 m AHD in the northern pit or 105 m AHD in the southern pit.

Note: Drainage sumps may be constructed below this level with the agreement of the Secretary.

8. The Proponent must not:
 - (a) transport more than 600,000 tonnes of quarry products from the site per calendar year;
 - (b) transport more than 50,000 tonnes of asphalt from the site per calendar year;
 - (c) dispatch more than 120 laden trucks from the site on any calendar day prior to the completion of intersection upgrade required by Condition 21(f) of Schedule 3 to the satisfaction of TfNSW; and
 - (d) dispatch more than 150 laden trucks from the site on any calendar day following completion of the intersection upgrade required by Condition 21(f) of Schedule 3 to the satisfaction of TfNSW.

Note: Dispatch of laden trucks is also controlled under condition 1 of Schedule 3.

STRUCTURAL ADEQUACY

9. The Proponent must ensure that all new buildings and structures, and any alterations or additions to existing buildings and structures, are constructed in accordance with the relevant requirements of the BCA.

Notes:

- Under Part 4A of the EP&A Act, the Proponent is required to obtain construction and occupation certificates for any proposed building works;

- Part 8 of the EP&A Regulation sets out the requirements for the certification of the project.

DEMOLITION

10. The Proponent must ensure that all demolition work is carried out in accordance with *Australian Standard AS 2601-2001: The Demolition of Structures*, or its latest version.

PROTECTION OF PUBLIC INFRASTRUCTURE

11. Unless the Proponent and the applicable authority agree otherwise the Proponent must:
 - (a) repair, or pay the full costs associated with repairing, any public infrastructure that is damaged by the project; and
 - (b) relocate, or pay the full costs associated with relocating, any public infrastructure that needs to be relocated as a result of the project.

Note: This condition does not apply to damage to roads caused as a result of general road usage or otherwise addressed by contributions required by condition 13 of Schedule 2.

OPERATION OF PLANT AND EQUIPMENT

12. The Proponent must ensure that all the plant and equipment used at the site, or to monitor the performance of the project is:
 - (a) maintained in a proper and efficient condition; and
 - (b) operated in a proper and efficient manner.

SECTION 94 CONTRIBUTIONS

13. The Proponent must pay Council an annual financial contribution toward the maintenance of local roads used for haulage of quarry products. The contribution must be determined in accordance with the *Lismore City Council Section 94 Contribution Plan*, 2004, or any subsequent relevant contributions plan adopted by Council.

PRODUCTION DATA

14. The Proponent must:
 - (a) from the commencement of quarrying operations provide calendar year annual quarry production data to **MEG** using the standard form for that purpose; and
 - (b) include a copy of this data in the Annual Review.

COMPLIANCE

15. The Proponent must ensure that all employees, contractors and sub-contractors are aware of, and comply with, the conditions of this approval relevant to their respective activities.

IDENTIFICATION OF BOUNDARIES

16. The Proponent must ensure that the boundaries of the approved limits of extraction are clearly marked at all times in a permanent manner that allows operating staff and inspecting officers to clearly identify those limits.

SCHEDULE 3 SPECIFIC ENVIRONMENTAL CONDITIONS

NOISE

Hours of Operation

- The Proponent must comply with the operating hours set out in Table 1.

Table 1: Operating hours

Activity	Permissible Hours
Quarrying operations, Asphalt plant operations and loading and dispatch of laden trucks	7 am to 6 pm Monday to Friday
	7 am to 3 pm Saturday
	At no time on Sundays or public holidays
Blasting	10 am to 3 pm Monday to Friday (except public holidays)
	At no time on Sundays or public holidays
Maintenance	May be conducted at any time, provided that these activities are not audible at any privately-owned residence

- The following activities may be carried out outside the hours specified in condition 1 above:
 - delivery or dispatch of materials as requested by Police or other public authorities; and
 - emergency work to avoid the loss of lives, property or to prevent environmental harm.

In such circumstances, the Proponent must notify the Secretary and affected residents prior to undertaking the activities, or as soon as is practical thereafter.

- 2A. **With the prior written agreement of the Secretary, the Proponent may undertake limited campaign asphalt plant operations (within the limits imposed under condition 8 of Schedule 2) outside of the operating hours prescribed in condition 1 of this Schedule, as requested by public authorities.**

In such circumstances, the applicant must prepare an Out of Work Hours Work Protocol. This protocol must:

- be prepared in consultation with the EPA and any residents who may be affected by the noise generated by these works; and**
 - be approved by the Secretary prior to the commencement of any out of hours Asphalt plant operations.**
3. The Proponent must ensure that the noise generated by the project does not exceed the criteria in Table 2 at any residence on privately-owned land.

Table 2: Noise criteria dB(A)

Receiver^a	Day <i>L_{Aeq} (15 minute)</i>
Location 2 and Location 7	36
All other locations	35

^a *Receiver locations are shown in Appendix 3*

Noise generated by the project is to be measured in accordance with the relevant requirements and exemptions (including certain meteorological conditions) of the NSW *Industrial Noise Policy*. Appendix 5 sets out the meteorological conditions under which these criteria apply and the requirements for evaluating compliance with these criteria.

However, the noise criteria in Table 2 do not apply if the Proponent has an agreement with the relevant landowner to exceed the noise criteria, and the Proponent has advised the Department in writing of the terms of this agreement.

Operating Conditions

- The Proponent must:
 - implement best practice management to minimise the construction, operational and road transportation noise of the project;

- (b) minimise the noise impacts of the project during meteorological conditions when the noise criteria in this approval do not apply (see Appendix 5);
 - (c) carry out noise monitoring (at least every 3 months or as otherwise agreed with the Secretary) to determine whether the project is complying with the relevant conditions of this approval; and
 - (d) regularly assess noise monitoring data and modify and/or stop operations on site to ensure compliance with the relevant conditions of this approval,
- to the satisfaction of the Secretary.

Note: Required frequency of noise monitoring may be reduced if approved by the Secretary.

Noise Management Plan

5. The Proponent must prepare a Noise Management Plan for the project to the satisfaction of the Secretary. This plan must:
 - (a) be prepared in consultation with the EPA;
 - (b) be submitted to the Secretary within 3 months of the determination of Modification 1, unless otherwise agreed by the Secretary;
 - (c) describe the measures to be implemented to ensure:
 - compliance with the noise criteria and operating conditions of this approval;
 - best practice management is being employed; and
 - the noise impacts of the project are minimised during meteorological conditions under which the noise criteria in this approval do not apply (see Appendix 5);
 - (d) describe the proposed noise management system; and
 - (e) include a monitoring program to be implemented to measure noise from the project against the noise criteria in Table 2.

The Proponent must implement the Noise Management Plan as approved from time to time by the Secretary.

BLASTING

Blasting Impact Assessment Criteria

6. The Proponent must ensure that blasting on site does not cause any exceedance of the criteria in Table 3.

Table 3: Blasting Criteria

Receiver	Airblast overpressure (dB(Lin Peak))	Ground vibration (mm/s)	Allowable exceedance
Any residence on privately-owned land	120	10	0%
	115	5	5% of the total number of blasts over a period of 12 months

However, these criteria do not apply if the Proponent has a written agreement with the relevant owner to exceed the limits in Table 3, and the Proponent has advised the Department in writing of the terms of this agreement.

Blasting Frequency

7. The Proponent may carry out a maximum of 2 blasts per month, unless an additional blast is required following a blast misfire. This condition does not apply to blasts required to ensure the safety of the quarry or workers on site.

Note: For the purposes of this condition, a blast refers to a single blast event, which may involve a number of individual blasts fired in quick succession in a discrete area of the quarry.

Operating Conditions

8. During blasting operations, the Proponent must:
 - (a) implement best practice management to:
 - protect the safety of people and livestock;
 - protect public or private infrastructure and property from damage; and
 - minimise the dust and fume emissions;
 - (b) operate a suitable system to enable the local community to get up-to-date information on the proposed blasting schedule on site; and
 - (c) carry out regular monitoring to determine whether the project is complying with the relevant conditions of this approval,

to the satisfaction of the Secretary.

Blast Management Plan

9. The Proponent must prepare a Blast Management Plan for the project to the satisfaction of the Secretary. This plan must:
- be submitted to the Secretary for approval within 3 months of the determination of Modification 1, unless otherwise agreed by the Secretary;
 - describe the measures to be implemented to ensure compliance with the blast criteria and operating conditions of this approval;
 - include measures to manage flyrock to ensure the safety of people and livestock and to protect property;
 - include a monitoring program for evaluating and reporting on compliance with the blasting criteria in this approval;
 - include local community notification procedures for the blasting schedule, in particular to nearby residences; and
 - include a protocol for investigating and responding to complaints related to blasting operations.

The Proponent must implement the Blast Management Plan as approved from time to time by the Secretary.

AIR QUALITY

Air Quality Impact Assessment Criteria

10. The Proponent must ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the project do not cause exceedances of the criteria in Table 4 at any residence on privately-owned land.

Table 4: Air quality criteria

Pollutant	Averaging Period	Criterion
Particulate matter < 10 µm (PM ₁₀)	Annual	a,d 25 µg/m ³
Particulate matter < 10 µm (PM ₁₀)	24 hour	b 50 µg/m ³
Total suspended particulates (TSP)	Annual	a,d 90 µg/m ³
^c Deposited dust	Annual	b 2 g/m ² /month a,d 4 g/m ² /month

Notes to Table 4:

a Cumulative impact (ie increase in concentrations due to the project plus background concentrations due to all other sources).

b Incremental impact (ie increase in concentrations due to the project alone, with zero allowable exceedances of the criteria over the life of the project).

c Deposited dust is to be assessed as insoluble solids as defined by Standards Australia, AS/NZS 3580.10.1:2003: Methods for Sampling and Analysis of Ambient Air - Determination of Particulate Matter - Deposited Matter - Gravimetric Method.

d Excludes extraordinary events such as bushfires, prescribed burning, dust storms, sea fog, fire incidents or any other activity agreed by the Secretary.

e "Reasonable and feasible avoidance measures" includes, but is not limited to, the operational requirements in conditions 11, 12 and 13 to develop and implement an air quality management system that ensures operational responses to the risks of exceedance of the criteria.

Operating Conditions

11. The Proponent must:
- implement best practice management to minimise the dust emissions of the project;
 - regularly assess meteorological and air quality monitoring data and relocate, modify and/or stop operations on site to ensure compliance with the air quality criteria in this approval;
 - minimise the air quality impacts of the project during adverse meteorological conditions and extraordinary events (see note d under Table 4);
 - monitor and report on compliance with the relevant air quality conditions in this approval; and
 - minimise the area of surface disturbance and undertake progressive rehabilitation of the site, to the satisfaction of the Secretary.

Air Quality Management Plan

12. The Proponent must prepare an Air Quality Management Plan for the project to the satisfaction of the Secretary. This plan must:

- (a) be submitted to the Secretary for approval within 3 months of the determination of Modification 1, unless otherwise agreed by the Secretary;
- (b) describe the measures to be implemented to ensure:
 - compliance with the air quality criteria and operating conditions of this approval;
 - best practice management is being employed; and
 - the air quality impacts of the project are minimised during adverse meteorological conditions and extraordinary events;
- (c) describe the proposed air quality management system;
- (d) include an air quality monitoring program that:
 - is capable of evaluating the performance of the project;
 - includes a protocol for determining any exceedances of the relevant conditions of approval; and
 - effectively supports the air quality management system.

The Proponent must implement the approved Air Quality Management Plan as approved from time to time by the Secretary.

Meteorological Monitoring

13. For the life of the project, the Proponent must ensure that there is a suitable meteorological station operating in the vicinity of the site that complies with the requirements in the *Approved Methods for Sampling and Analysis of Air Pollutants in New South Wales* guideline.

Greenhouse Gas Emissions

14. The Proponent must implement all reasonable and feasible measures to minimise the release of greenhouse gas emissions from the site.

SOIL AND WATER

Water Supply

15. The Proponent must ensure that it has sufficient water for all stages of the project, and if necessary, adjust the scale of operations under the approval to match its available water supply, to the satisfaction of the Secretary.

Water Discharges

16. The Proponent must comply with the discharge limits in any EPL, or with section 120 of the POEO Act.

Groundwater Assessment

17. The Proponent must undertake a detailed groundwater assessment to the satisfaction of the Secretary. This assessment must be:
 - (a) prepared by a suitably qualified expert in consultation with DPIE Water;
 - (b) submitted to the Secretary for approval by 30 December 2018;
 - (c) approved by the Secretary before any extraction below 105 m AHD in the northern pit or below 118.5 m AHD in the southern pit;
 - (d) adequately assess groundwater resources affected by the northern and southern pits, to the proposed full extraction depths of those pits;
 - (e) adequately assess all groundwater impacts associated with proposed extraction;
 - (f) provide data for predicted groundwater pit inflows during and following extraction; and
 - (g) propose management measures to address pit inflows and impacts to groundwater resources.

The Proponent must implement the management measures proposed in the groundwater assessment to the satisfaction of the Secretary.

Soil and Water Management

18. If groundwater is encountered during quarrying operations in the South Pit under EA (Mod 1), the Proponent must cease quarrying operations until authorised to recommence by the Secretary.
19. The Proponent must prepare a Soil and Water Management Plan for the project to the satisfaction of the Secretary. This plan must:
 - (a) be prepared by suitably qualified and experienced person/s approved by the Secretary;
 - (b) be prepared in consultation with the EPA and DPIE Water;
 - (c) be submitted to the Secretary for approval within 3 months of the determination of Modification 1, unless otherwise agreed by the Secretary; and
 - (d) include a:
 - (a) be prepared by suitably qualified and experienced person/s approved by the Secretary;
 - (b) be prepared in consultation with the EPA and DPIE Water;
 - (c) be submitted to the Secretary for approval within 3 months of the determination of Modification 1, unless otherwise agreed by the Secretary; and
 - (d) include a:

- (i) Site Water Balance that includes:
 - details of:
 - sources and security of water supply;
 - water use and management on site;
 - any off-site water transfers; and
 - reporting procedures; and
 - measures to be implemented to minimise clean water use on site;
- (ii) Surface Water Management Plan, that includes:
 - a program for obtaining detailed baseline data on surface water flows and quality in water bodies that could potentially be affected by the project;
 - a detailed description of the surface water management system on site including the:
 - clean water diversion system;
 - erosion and sediment controls;
 - dirty water management system; and
 - water storages; and
 - a program to monitor and report on:
 - any surface water discharges;
 - the effectiveness of the water management system,
 - the quality of water discharged from the site to the environment;
 - surface water flows and quality in local watercourses;
- (iii) Groundwater Management Plan that includes:
 - a provision that requires the Proponent to obtain appropriate water licence(s) to cover the volume of any unforeseen groundwater inflows into the quarry from the quarry face or floor; and
 - a monitoring program to manage potential impacts, if any, on any alluvium and associated surface water source near the proposed extraction area that includes:
 - identification of a methodology for determining threshold water level criteria;
 - contingency measures in the event of a breach of thresholds; and
 - a program to regularly report on monitoring.

The Proponent must implement the approved Soil and Water Management Plan as approved from time to time by the Secretary.

TRANSPORT

Monitoring of Product Transport

20. The Proponent must keep accurate records of all laden truck movements to and from the site (including time of arrival and dispatch) and publish a summary of records on its website every 6 months.

Road Upgrades

21. The Proponent must undertake the following road upgrade works generally in accordance with the recommendations in the EA, and to the satisfaction of the TfNSW:
- (a) upgrade the intersection of the Quarry Access and Nimbin Road to a 'Type AUR Intersection Treatment', prior to 31 December 2010;
 - (b) upgrade the guard rails on the approaches to Boorerie Creek Bridge prior to 31 December 2010;
 - (c) upgrade the Boorerie Creek Road and Nimbin Road intersection to a 'Type BAR Right Turn Treatment on the Through Road' prior to 31 December 2010;
 - (d) upgrade the Wilson Street and Nimbin Road intersection to a 'Type CHR Right Turn Bay Treatment' prior to 31 December 2010;
 - (e) re-align Nimbin Road and the Quarry Access intersection to meet the AUSTROADS sight distance requirements for vehicles travelling in both directions through the intersection prior to 31 December 2011; and
 - (f) upgrade the intersection at Nimbin Road and the Quarry Access from the current Type AUR intersection to a Type CHR-S (Shortened Channelised Right Hand Turn) to the satisfaction of TfNSW.

Note: The road works must be constructed in accordance with the relevant TfNSW or AUSTROADS standards, and signposted and lit in accordance with AS:1742 – Manual of Uniform Traffic Control Devices and AS/NZ 1158:2005 – Lighting for Roads and Public Spaces.

Operating Conditions

22. The Proponent must:
- (a) restrict truck movements from the quarry to an average of 50 laden trucks a day until all road upgrades works required by condition 21 (a) – (e) of Schedule 3, are met or unless otherwise approved by the Secretary;

- (b) ensure that all laden trucks entering or exiting the site have their loads covered, with the exception of loads consisting solely of boulders greater than one tonne in weight;
- (c) ensure that all laden trucks exiting the site are cleaned of material that may fall from vehicles, before leaving the site; and
- (d) use its best endeavours to ensure that appropriate signage is displayed on all trucks used to transport product from the project so they can be easily identified by road users.

Traffic Management Plan

23. The Proponent must prepare a Traffic Management Plan for the project to the satisfaction of the Secretary. This plan must:
- (a) be prepared in consultation with the **TNSW** and Council;
 - (b) be submitted to the Secretary for approval within 3 months of the determination of Modification 1, unless otherwise agreed by the Secretary;
 - (c) describe the processes in place for the control of truck movements entering and exiting the site;
 - (d) include a Drivers' Code of Conduct that details the safe and quiet driving practices that must be used by drivers transporting products to and from the quarry;
 - (e) describe the measures to be put in place to ensure compliance with the Drivers' Code of Conduct; and
 - (f) propose measures to minimise the transmission of dust and tracking of material onto the surface of the public road from vehicles leaving the quarry.

The Proponent must implement the approved Traffic Management Plan as approved from time to time by the Secretary.

ABORIGINAL HERITAGE

Aboriginal Heritage Management Plan

24. The Proponent must prepare an Aboriginal Heritage Management Plan for the project to the satisfaction of the Secretary. The plan must:
- (a) be prepared by suitably qualified and experienced persons whose appointment has been endorsed by the Secretary;
 - (b) be prepared in consultation with **Heritage NSW** and the Registered Aboriginal Parties;
 - (c) be submitted to the Secretary for approval within 3 months of the determination of Modification 1, unless otherwise agreed by the Secretary; and
 - (d) include a description of the measures that would be implemented to:
 - protect, monitor and manage known sites of archaeological significance;
 - manage any new Aboriginal objects or relics that are discovered;
 - store Aboriginal heritage items salvaged on site; and
 - ensure ongoing consultation and involvement of the Registered Aboriginal Parties in the conservation and management of Aboriginal cultural heritage on the site.

The Proponent must implement the approved Aboriginal Heritage Management Plan as approved from time to time by the Secretary.

25. If any item or object of Aboriginal heritage significance is identified on site, the Proponent must ensure that:
- (a) all work in the immediate vicinity of the suspected Aboriginal item or object ceases immediately;
 - (b) a 10 m buffer area around the suspected item or object is cordoned off; and
 - (c) the **Heritage NSW** is contacted immediately.

Work in the immediate vicinity of the Aboriginal item or object may only recommence in accordance with the provisions of Part 6 of the *National Parks and Wildlife Act 1974*.

BIODIVERSITY AND REHABILITATION

Biodiversity Offset Strategy

- 25A. The Proponent must:
- (a) implement the Biodiversity Offset Strategy (see Table 5);
 - (b) ensure that adequate resources are dedicated towards the implementation of this strategy;
 - (c) provide appropriate long term security for the offset area; and
 - (d) provide a timetable for the implementation of the offset strategy prior to 30 June 2010, or as otherwise agreed by the Secretary,
- to the satisfaction of the Secretary.

Table 5: Biodiversity Offset Strategy

Offset Areas	Minimum Size
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On-site offset (Protection Zone in Appendix 4)	17.6 hectares
Off-site offset (within Lismore local government area, and not already within a conservation area)	45 hectares
Total	62.6 hectares

Note: Mechanisms to provide appropriate long-term security to the land within the Biodiversity Offset Strategy in accordance with the NSW Biodiversity Offset Policy for Major Projects 2014, include a BioBanking Agreement, Voluntary Conservation Agreement or an alternative mechanism that provides for a similar conservation outcome.

Rehabilitation Objectives

26. The Proponent must rehabilitate the site to the satisfaction of the Secretary. This rehabilitation must be generally consistent with the rehabilitation strategy in the EIS and must comply with the objectives in Table 6.

Table 6: Rehabilitation Objectives

Feature	Objective
All areas of the site affected by the project	<ul style="list-style-type: none"> Safe Hydraulically and geotechnically stable Non-polluting Fit for the intended post-mining land use(s) Final landform integrated with surrounding natural landforms as far as is reasonable and feasible, and minimising visual impacts when viewed from surrounding land
Surface Infrastructure	<ul style="list-style-type: none"> Decommissioned and removed, unless otherwise agreed by the Secretary
Quarry benches and pit floor	<ul style="list-style-type: none"> Landscaped and vegetated using native tree and understorey species
Final Void	<ul style="list-style-type: none"> Minimise the size, depth and slope of the batters of the final void Minimise the drainage catchment of the final void

Progressive Rehabilitation

27. The Proponent must rehabilitate the site progressively, that is, as soon as reasonably practicable following disturbance. All reasonable and feasible measures must be taken to minimise the total area exposed for dust generation at any time. Interim stabilisation measures must be implemented where reasonable and feasible to control dust emissions in disturbed areas that are not active and which are not ready for final rehabilitation.

Note: It is accepted that parts of the site that are progressively rehabilitated may be subject to future re-disturbance.

Biodiversity and Rehabilitation Management Plan

28. The Proponent must prepare a Biodiversity and Rehabilitation Management Plan for the project to the satisfaction of the Secretary. This plan must:
- be prepared by a suitably qualified expert;
 - be prepared in consultation with BCD and Council;
 - be submitted to the Secretary for approval within 3 months of the determination of Modification 1, unless otherwise agreed by the Secretary;
 - provide details of the conceptual final landform and associated land uses for the site;
 - describe how the implementation of the Biodiversity Offset Strategy will be integrated with the overall rehabilitation of the site;
 - include a Koala Management Plan prepared in accordance with SEPP 44;
 - include detailed performance and completion criteria for evaluating the performance of the Biodiversity Offset Strategy and rehabilitation of the site (including progressive rehabilitation), including triggers for any necessary remedial action;
 - describe the short, medium and long term measures to be implemented to:
 - manage remnant vegetation and habitat on site, including within the Biodiversity Offset Strategy area; and
 - ensure compliance with the rehabilitation objectives and progressive rehabilitation obligations in this approval;
 - include a detailed description of the measures described in paragraph (h) to be implemented over the next 3 years (to be updated for each 3 year period following initial approval of the plan) including the procedures to be implemented for:
 - maximising the salvage of environmental resources within the approved disturbance area, including tree hollows, vegetative and soil resources, for beneficial reuse in the enhancement of the offset area or site rehabilitation;

- restoring and enhancing the quality of native vegetation and fauna habitat in the biodiversity offset and rehabilitation areas through assisted natural regeneration, targeted vegetation establishment and the introduction of fauna habitat features;
 - protecting vegetation and fauna habitat outside the approved disturbance area on-site, including core Koala habitat;
 - minimising the impacts on native fauna, including undertaking pre-clearance surveys;
 - establishing vegetation screening to minimise the visual impacts of the site on surrounding receivers;
 - ensuring minimal environmental consequences for threatened species, populations and habitats;
 - collecting and propagating seed;
 - controlling weeds and feral pests;
 - controlling erosion; and
 - managing bushfire risk;
- (j) include a program to monitor and report on the effectiveness of these measures, and progress against the performance and completion criteria;
- (k) identify the potential risks to the successful implementation of the Biodiversity Offset Strategy, and include a description of the contingency measures to be implemented to mitigate these risks; and
- (l) include details of who is responsible for monitoring, reviewing, and implementing the plan.

The Proponent must implement the Biodiversity and Rehabilitation Management Plan as approved from time to time by the Secretary.

Biodiversity and Rehabilitation Bond

29. Within 6 months of the approval of the Biodiversity and Rehabilitation Management Plan, the Proponent must lodge a Biodiversity and Rehabilitation Bond with the Department to ensure that the Biodiversity Offset Strategy and rehabilitation of the site are implemented in accordance with the performance and completion criteria set out in the plan and the relevant conditions of this approval. The sum of the bond must be determined by:
- (a) calculating the full cost of implementing the Biodiversity Offset Strategy;
 - (b) calculating the cost of rehabilitating all disturbed areas of the site, taking into account the likely surface disturbance over the next 3 years of quarrying operations; and
 - (c) employing a suitably qualified quantity surveyor or other expert to verify the calculated costs, to the satisfaction of the Secretary.

Notes:

- *Alternative funding arrangements for long term management of the Biodiversity Offset Strategy, such as provision of capital and management funding as agreed by BCD as part of a BioBanking Agreement, or transfer to conservation reserve estate can be used to reduce the liability of the Biodiversity and Rehabilitation Bond.*
- *If capital and other expenditure required by the Biodiversity and Rehabilitation Management Plan is largely complete, the Secretary may waive the requirement for lodgement of a bond in respect of the remaining expenditure.*
- *If the Biodiversity Offset Strategy and/or rehabilitation of the site area are completed (or partially completed) to the satisfaction of the Secretary, then the Secretary will release the bond (or relevant part of the bond). If the Biodiversity Offset Strategy and rehabilitation of the site are not completed to the satisfaction of the Secretary, then the Secretary will call in all or part of the bond, and arrange for the completion of the relevant works.*

30. Within 3 months of each Independent Environmental Audit (see condition 12 of Schedule 5), the Proponent must review, and if necessary revise, the sum of the Biodiversity and Rehabilitation Bond to the satisfaction of the Secretary. This review must consider the:
- (a) effects of inflation;
 - (b) likely cost of implementing the Biodiversity Offset Strategy and rehabilitating all disturbed areas of the site (taking into account the likely surface disturbance over the next 3 years of the project); and
 - (c) performance of the implementation of the Biodiversity Offset Strategy and rehabilitation of the site to date.

VISUAL

31. The Proponent must implement all reasonable and feasible measures to minimise the visual and off-site lighting impacts of the project to the satisfaction of the Secretary.

WASTE

32. The Proponent must:
- (a) manage on-site sewage treatment and disposal in accordance with the requirements of its EPL, and to the satisfaction of the EPA and Council;

- (b) minimise the waste generated by the project;
 - (c) ensure that the waste generated by the project is appropriately stored, handled, and disposed of; and
 - (d) report on waste management and minimisation in the Annual Review, to the satisfaction of the Secretary.
33. Except as expressly permitted in an EPL, the Proponent must not receive waste at the site for storage, treatment, processing, reprocessing or disposal.

LIQUID STORAGE

34. The Proponent must ensure that all tanks and similar storage facilities (other than for water) are protected by appropriate bunding or other containment, in accordance with the relevant Australian Standards.

DANGEROUS GOODS

35. The Proponent must ensure that the storage, handling, and transport of dangerous goods is done in accordance with the relevant Australian Standards, particularly AS1940 and AS1596, and the *Dangerous Goods Code*.

BUSHFIRE

36. The Proponent must:
- (a) ensure that the project is suitably equipped to respond to any fires on site; and
 - (b) assist the Rural Fire Service and emergency services to the extent practicable if there is a fire in the vicinity of the site.

SCHEDULE 4 ADDITIONAL PROCEDURES

NOTIFICATION OF LANDOWNERS

1. As soon as practicable, and no longer than 7 days, after obtaining monitoring results showing:
 - (a) an exceedance of any criteria in Schedule 3, the Proponent must notify the affected landowners in writing of the exceedance, and provide regular monitoring results, at least every 3 months, to each affected landowner until the project is again complying with the relevant criteria; and
 - (b) an exceedance of any air quality criteria in Schedule 3, the Proponent must send a copy of the NSW Health fact sheet entitled "Mine Dust and You" (as may be updated from time to time) to the affected landowners and current tenants of the land (including the tenants of land which is not privately-owned).

INDEPENDENT REVIEW

2. If an owner of privately-owned land considers the project to be exceeding the relevant criteria in Schedule 3, then he/she may ask the Secretary in writing for an independent review of the impacts of the project on his/her land.

If the Secretary is satisfied that an independent review is warranted, then within 2 months of the Secretary's decision, the Proponent must:

- (a) commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Secretary, to:
 - consult with the landowner to determine his/her concerns;
 - conduct monitoring to determine whether the project is complying with the relevant criteria in Schedule 3; and
 - if the project is not complying with these criteria, then identify measures that could be implemented to ensure compliance with the relevant criteria; and
- (b) give the Secretary and landowner a copy of the independent review; and
- (c) comply with any written requests made by the Secretary to implement any findings of the review.

PROPERTY INSPECTIONS

3. Prior to 30 June 2010, the Proponent must advise all owners of privately-owned land within 2 kilometres of proposed blasting activities, and any other landowner nominated by the Secretary, that they are entitled to a property inspection to establish the baseline condition of the property.
4. If the Proponent receives a written request for a property inspection from any such landowner, the Proponent must:
 - (a) commission a suitably qualified person, whose appointment has been approved by Secretary, to inspect and report on the condition of any building or structure on the land, and recommend measures to mitigate any potential blasting impacts; and
 - (b) give the landowner a copy of this property inspection report.

Note: It is preferable for the property inspection to be carried out prior to the commencement of blasting activities on the site, and the Proponent should facilitate this occurring wherever possible.

PROPERTY INVESTIGATIONS

5. If any owner of privately-owned land within 2 kilometres of proposed blasting activities, or any other landowner nominated by the Secretary, claims that his/her property, including vibration-sensitive infrastructure such as water supply or underground irrigation mains, has been damaged as a result of blasting at the project, the Proponent shall within 3 months of receiving this request:
 - (a) commission a suitably qualified person whose appointment has been approved by the Secretary to investigate the claim and prepare a property investigation report; and
 - (b) give the landowner a copy of the report.

If this independent investigation confirms the landowner's claim, and both parties agree with these findings, then the Proponent shall repair the damage to the satisfaction of the Secretary.

If the Proponent or landowner disagrees with the findings of the independent property investigation, then either party may refer the matter to the Secretary for resolution.

SCHEDULE 5
ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING

ENVIRONMENTAL MANAGEMENT

Environmental Management Strategy

1. The Proponent must prepare an Environmental Management Strategy for the project to the satisfaction of the Secretary. This strategy must:
 - (a) be submitted to the Secretary for approval within 6 months of the Secretary requiring preparation of the strategy by notice to the Proponent;
 - (b) provide the strategic framework for environmental management of the project;
 - (c) identify the statutory approvals that apply to the project;
 - (d) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the project;
 - (e) describe the procedures to be implemented to:
 - keep the local community and relevant agencies informed about the operation and environmental performance of the project;
 - receive, record, handle and respond to complaints;
 - resolve any disputes that may arise during the course of the project;
 - respond to any non-compliance;
 - respond to emergencies; and
 - (a) include:
 - copies of any strategies, plans and programs approved under the conditions of this approval; and
 - a clear plan depicting all the monitoring to be carried out under the conditions of this approval.

The Proponent must implement any Environmental Management Strategy as approved from time to time by the Secretary.

Evidence of Consultation

2. Where consultation with any State or local agency is required by the conditions of this approval, the Proponent must:
 - (a) consult with the relevant agency prior to submitting the required document to the Secretary for approval;
 - (b) submit evidence of this consultation as part of the relevant document;
 - (c) describe how matters raised by the agency have been addressed and any matters not resolved; and
 - (d) include details of any outstanding issues raised by the agency and an explanation of disagreement between any agency and the Proponent.

Management Plan Requirements

3. The Proponent must ensure that the management plans required under this approval are prepared in accordance with any relevant guidelines, and include:
 - (a) detailed baseline data;
 - (b) a description of:
 - the relevant statutory requirements (including any relevant approval, licence or lease conditions);
 - any relevant limits or performance measures/criteria; and
 - the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the project or any management measures;
 - (c) a description of the measures that to be implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria;
 - (d) a program to monitor and report on the:
 - impacts and environmental performance of the project; and
 - effectiveness of any management measures (see (c) above);
 - (e) a contingency plan to manage any unpredicted impacts and their consequences and to ensure that ongoing impacts reduce to levels below relevant impact assessment criteria as quickly as possible;
 - (f) a program to investigate and implement ways to improve the environmental performance of the project over time;
 - (g) a protocol for managing and reporting any:
 - incidents;
 - complaints;
 - non-compliances with statutory requirements; and
 - exceedances of the impact assessment criteria and/or performance criteria; and

- (h) a protocol for periodic review of the plan.

Note: The Secretary may waive some of these requirements if they are unnecessary or unwarranted for particular management plans.

Application of Existing Management Plans

4. The Proponent must continue to apply existing approved management plans, strategies or monitoring programs that have most recently been approved under this approval, until the approval of a similar plan, strategy or program under this approval.

Revision of Strategies, Plans & Programs

- 4A. Within 3 months of the submission of an:

- (a) incident report under condition 9 below;
- (b) Annual Review under condition 11 below;
- (c) audit report under condition 12 below; and
- (d) any modifications to this approval

the Proponent must review the strategies, plans and programs required under this approval, to the satisfaction of the Secretary. The proponent must notify the Department in writing of any such review being undertaken. Where this review leads to revisions in any such document, then within 6 weeks of the review the revised document must be submitted for the approval of the Secretary.

Note: The purpose of this condition is to ensure that strategies, plans and programs are regularly updated to incorporate any measures recommended to improve environmental performance of the project.

Updating and Staging of Strategies, Plans or Programs

5. To ensure that strategies, plans or programs required under this approval are updated on a regular basis, and that they incorporate any appropriate additional measures to improve the environmental performance of the project, the Proponent may at any time submit revised strategies, plans or programs for the approval of the Secretary. With the agreement of the Secretary, the Proponent may also submit any strategy, plan or program required by this approval on a staged basis.

The Secretary may approve a revised strategy, plan or program required under this approval, or the staged submission of any of these documents, at any time. With the agreement of the Secretary, the Proponent may prepare the revised or staged strategy, plan or program without undertaking consultation with all parties nominated under the applicable condition in this approval.

While any strategy, plan or program may be submitted on a staged basis, the proponent will need to ensure that the operations associated with the project are covered by suitable strategies, plans or programs at all times.

If the submission of any strategy, plan or program is to be staged; then the relevant strategy, plan or program must clearly describe the specific stage/s of the project to which the strategy, plan or program applies; the relationship of this stage/s to any future stages; and the trigger for updating the strategy, plan or program.

Adaptive Management

6. The Applicant must assess and manage development-related risks to ensure that there are no exceedances of the criteria and performance measures in this consent. Any exceedance of these criteria or performance measures constitutes a breach of this consent and may be subject to penalty or offence provisions under the EP&A Act or EP&A Regulation.

Where any exceedance of these criteria or performance measures has occurred, the Applicant must, at the earliest opportunity:

- (a) take all reasonable and feasible steps to ensure that the exceedance ceases and does not recur;
- (b) consider all reasonable and feasible options for remediation (where relevant) and submit a report to the Department describing those options and any preferred remediation measures or other course of action; and
- (c) implement reasonable remediation measures as directed by the Planning Secretary.

COMMUNITY CONSULTATIVE COMMITTEE

7. The Proponent must establish and operate a Community Consultative Committee (CCC) for the project to the satisfaction of the Secretary. The CCC must be operated in general accordance with the Department's *Community Consultative Committee Guidelines, November 2016* (or later version).

Notes:

- *The CCC is an advisory committee. The Department and other relevant agencies are responsible for ensuring that the Proponent complies with this approval.*
- *In accordance with the guidelines, the Committee should comprise an independent chair and appropriate representation from the Proponent, Council and the local community.*

REPORTING AND AUDITING

Incident Notification

8. The Proponent must immediately notify the Department and any other relevant agencies immediately after it becomes aware of an incident. The notification must be in writing via the Major Projects Website and identify the development (including the development application number and name) and set out the location and nature of the incident.

Non-Compliance Notification

9. Within seven days of becoming aware of a non-compliance, the Applicant must notify the Department of the non-compliance. The notification must be in writing via the Major Projects Website and identify the development (including the development application number and name), set out the condition of this consent that the development is non-compliant with, the way in which it does not comply and the reasons for the non-compliance (if known) and what actions have been, or will be, undertaken to address the non-compliance.

Regular Reporting

10. The Proponent must provide regular reporting on the environmental performance of the project on its website, in accordance with the reporting arrangements in any plans or programs approved under the conditions of this approval.

Annual Review

11. By the end of March each year, or other timing as may be agreed by the Secretary, the Proponent must submit a review to the Department reviewing the environmental performance of the project to the satisfaction of the Secretary. This review must:
- (a) describe the project (including any progressive rehabilitation) that was carried out in the previous calendar year, and the project that is proposed to be carried out over the current calendar year;
 - (b) include a comprehensive review of the monitoring results and complaints records of the project over the previous calendar year, which includes a comparison of these results against the:
 - relevant statutory requirements, limits or performance measures/criteria;
 - requirements of any plan or program required under this approval;
 - monitoring results of previous years; and
 - relevant predictions in the documents listed in condition 2(a) of Schedule 2;
 - (c) evaluate and report on:
 - the effectiveness of the air quality and noise management systems; and
 - compliance with the performance measures, criteria and operating conditions in this approval.
 - (d) identify any non-compliance over the past calendar year, and describe what actions were (or are being) taken to ensure compliance;
 - (e) identify any trends in the monitoring data over the life of the project;
 - (f) identify any discrepancies between the predicted and actual impacts of the project, and analyse the potential cause of any significant discrepancies;
 - (g) describe what measures will be implemented over the current calendar year to improve the environmental performance of the project.

The Proponent must ensure that copies of the Annual Review are submitted to Council and are available to the Community Consultative Committee (see condition 7 of Schedule 5) and any interested person upon request.

INDEPENDENT ENVIRONMENTAL AUDIT

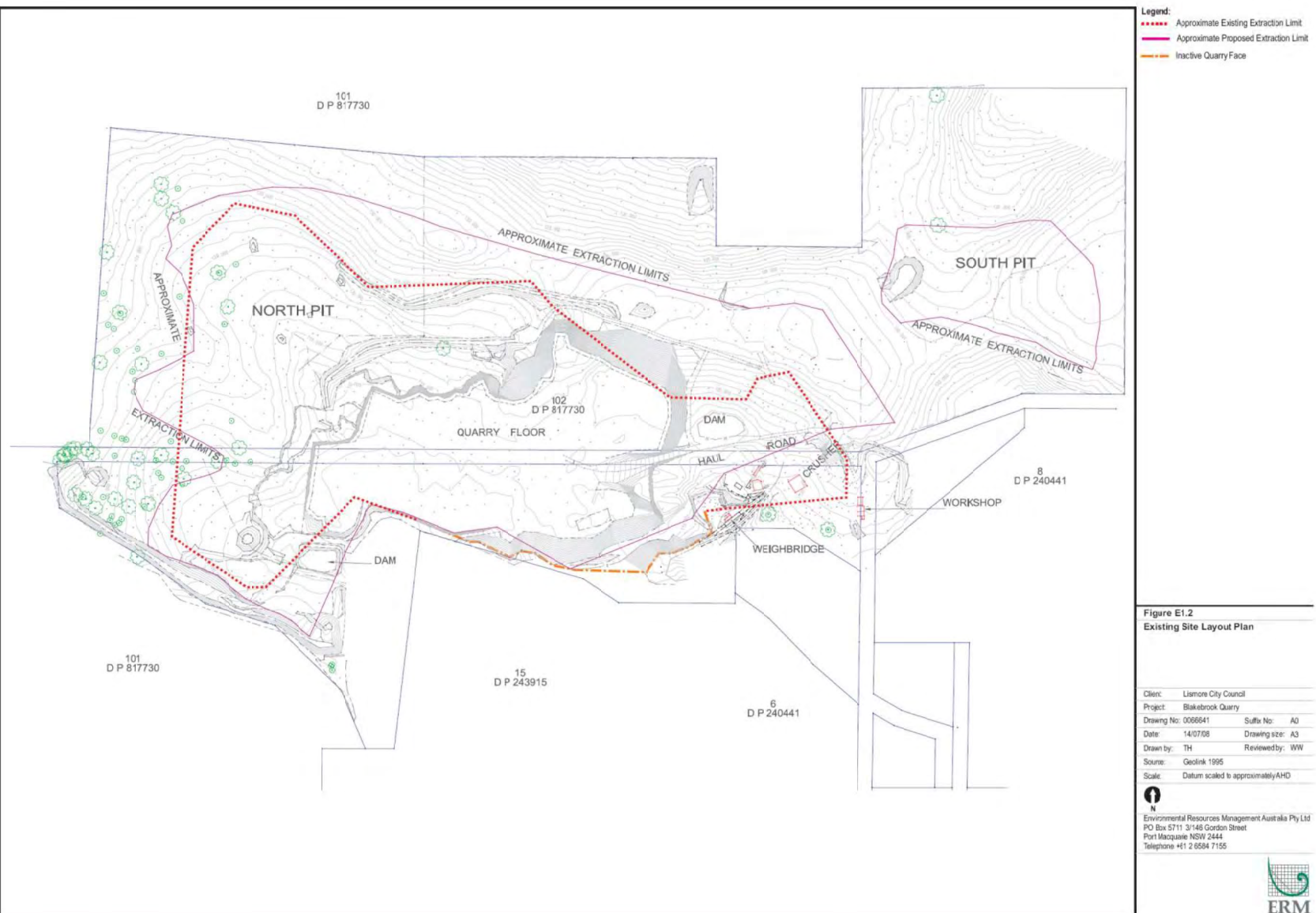
12. Within three years of the date of grant of this project approval, and every 3 years thereafter, unless the Secretary directs otherwise, the Proponent must commission, commence and pay the full cost of an Independent Environmental Audit of the project. This audit must:

- (a) be led and conducted by a suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary;
 - (b) include consultation with the relevant agencies and the CCC;
 - (c) assess the environmental performance of the project and whether it is complying with the relevant requirements in this approval and any relevant EPL or necessary water licences for the project (including any assessment, strategy, plan or program required under these approvals);
 - (d) review the adequacy of strategies, plans or programs required under the abovementioned approvals;
 - (e) recommend appropriate measures or actions to improve the environmental performance of the project, and/or any assessment, strategy, plan or program required under the abovementioned approvals; and
 - (f) be conducted and reported to the satisfaction of the Secretary.
13. Within 12 weeks of commencing this audit, or as otherwise agreed by the Secretary, the Proponent must submit a copy of the audit report to the Secretary and any other NSW agency that requests it, together with its response to any recommendations contained in the audit report, and a timetable for the implementation of these recommendations as required. The Proponent must implement these recommendations, to the satisfaction of the Secretary.

ACCESS TO INFORMATION

14. Within 3 months of the determination of Modification 1, until the completion of all works, including rehabilitation and remediation the Proponent must:
- (a) make the following information publicly available on its website:
 - the documents listed in condition 2(a) of Schedule 2;
 - current statutory approvals for the project;
 - all approved strategies, plans and programs required under the conditions of this approval;
 - a comprehensive summary of the monitoring results of the project, reported in accordance with the specifications in any conditions of this approval, or any approved plans and programs;
 - a complaints register, updated monthly;
 - the annual reviews of the project;
 - any independent environmental audit as described in condition 12 above, and the Proponent's response to the recommendations in any audit; and
 - any other matter required by the Secretary; and
 - (b) keep this information up-to-date, to the satisfaction of the Secretary.

APPENDIX 1 PROJECT LAYOUT PLAN



APPENDIX 2

STATEMENT OF COMMITMENTS

Item Number	Item	Commitment	Responsibility	Timing
1.1	Scope of Development			
1.1		<p>The development will be carried out as outlined in the documentation and plans listed below, except where amended by other items of this Statement of Commitments.</p> <ul style="list-style-type: none"> Environmental Assessments (EA), prepared by ERM, 2009 and supporting reports; and Quarry Plans (refer Figures 2.3 to 2.5 of the EA (ERM, 2009) 	Lismore City Council and/or its successors	Ongoing.
2	Roads			
2.1		The proponent shall provide the following roadworks with associated stormwater drainage structure that have been designed and constructed in accordance with Council's Development, Design and Construction Manual (as amended). The proponent shall be responsible for any costs, including maintenance, for a period of six months from the date of approval of completion of the work. Required roadworks include:	Lismore City Council	Prior to the operation of the expanded quarry.
2.1.1		Construction of a type CHR intersection layout at the junction of the quarry access and Nimbin Road in accordance with AUSTROADS Pt 5 " <i>Intersections at Grade</i> " giving particular attention to sight distance. The access road will remain sealed from at least 50m back from Nimbin Road to prevent fouling of the road surface, as per existing conditions.	Lismore City Council	Prior to the operation of the expanded quarry.
2.1.2		Construction of a type CHR intersection layout at the junction of Nimbin Road and Wilson Street in accordance with AUSTROADS Pt 5 " <i>Intersections at Grade</i> ".	Lismore City Council	Prior to the operation of the expanded quarry.
2.1.3		Construction of a 1m wide gravel shoulder and repair existing pavement of Nimbin Road for a length of 200 metres at a location 2.8 kilometres north of the intersection of Nimbin Road and Wilson Street as recommended within Appendix G, Traffic Impact Study, of the Environmental Assessment.	Lismore City Council	Prior to the operation of the expanded quarry.
2.1.4		Installation of a guard rail in accordance with the relevant standard at Boorie Creek Bridge approaches as recommended within Appendix G, Traffic Impact Study, of the Environmental Assessment.	Lismore City Council	Prior to the operation of the expanded quarry.
2.1.5		Works identified in Tables 1 and 2 of Appendix G, Traffic Impact Study, of the Environmental Assessment that have not been individually detailed within conditions of consents.	Lismore City Council	Prior to the operation of the expanded quarry.

Prior to the operation of the expanded quarry the applicant shall obtain a certificate of completion for the above works from Council. Prior to obtaining this certificate a practicing qualified surveyor or engineer shall submit to Council for approval, a "works-as-executed" set of plans, completed asset record forms and construction certification. The certification shall certify that all roads, drainage and civil works required by this development consent and the approved design plans have been completed in accordance with Council's Development and Construction Manual (as amended).

2.2	The proponent shall provide the following roadworks with associated stormwater drainage structures that have been designed and constructed in accordance with the Council's Development, Design and Construction Manual (as amended). The proponent shall be responsible for any costs, including maintenance, for a period of six months from the date of approval of completion of the work. Required roadworks include:		
2.2.1	Construction of a type BAR intersection layout at the junction of Nimbin Road and Boorie Creek Road in accordance with AUSTROADS Pt 5 "Intersections at Grade".	Lismore City Council	Once production rates reach 350,000 tonnes/annum.

Prior to exceeding an annual extraction rate of 350,000 tonnes in any one year the applicant shall obtain a certificate of completion for the above works from Council. Prior to obtaining this certificate a practicing qualified surveyor or engineer shall submit to Council for approval, a "works-as-executed" set of plans, completed asset record forms and construction certification. This certification shall certify that all roads, drainage and civil works required by this development consent and the approved design plans have been completed in accordance with Council's Development and Construction Manual (as amended).

2.3	Prior to the operation of the expanded quarry a review of the Road Safety Audit contained within Tables 1 and 2 of Appendix G, Traffic Impact Study, of the Environmental Assessment shall be undertaken. All required works identified within the review that are not individually detailed within conditions of consents shall be completed prior to operation of the expanded quarry.	Lismore City Council	Prior to the operation of the expanded quarry.
2.4	Prior to the operation of the expanded quarry hinged "Truck Entering" warning signage, W5-22 signs, shall be erected at suitable locations, approximately 200 metres either side of the access, upon Nimbin Road advising of the traffic hazard. Signs shall be displayed during hours of haulage operations only.	Lismore City Council	Prior to the operation of the expanded quarry.
2.5	Prior to the commencement of works required by the above conditions the applicant shall obtain approval under section 138 of the Roads Act for the works upon the public road. For this approval full design plans of the proposed engineering works required upon the public road shall be submitted to and approved by Council. Plans shall include details of works required to satisfy condition(s) RD1. Such plans shall be accompanied with the fee, as adopted at the time of the relevant payment as indicated in Councils Fees and Charges.	Lismore City Council	Prior to the commencement of works required by the above conditions.
2.6	Prior to the issue of the section 138 approval for works upon the public road the proponent shall have approved by Council a plan of management for the construction of all civil works outside the real property boundaries of the proposed development. The plan shall table scheduling of works so as to be completed in the shortest possible time with minimal impact on the general community. Such plan shall include a Traffic Control Plan prepared by an RTA	Lismore City Council	Prior to the issue of the section 138 approval for works upon the public road.

accredited person. All works shall comply with the Occupational Health and Safety Act.

2.7	The plan of management for the operation of the quarry shall incorporate a code of practice for trucking operations associated with the development. This code shall include a requirement for the use of CB radios for communication with buses and garbage trucks within all haulage vehicles as recommended within Appendix G, Traffic Impact Study, of the Environmental Assessment.	Lismore City Council	Prior to the issue of the section 138 approval for works upon the public road.
2.8	The development shall provide adequate on site parking for all vehicles, plant and equipment associated with the development.	Lismore City Council	Prior to the operation of the expanded quarry.
2.9	The proposed access shall be sealed for the first 50 metre length from Nimbin Road. Driveways, access aisles and parking areas shall be provided with a suitable pavement, constructed and maintained in accordance with Council's Development, Design and Construction Manual (as amended)	Lismore City Council	Prior to the operation of the expanded quarry.
2.10	All loading and unloading shall take place within the property boundaries, as will the parking of construction and private vehicles associated with the development	Lismore City Council	Ongoing.
2.11	Vehicles using any off street loading/unloading and/or parking area must enter and leave in a forward direction in accordance with Council's Development Control Plan No.1, Part A, Chapter 7 – Off Street Parking Requirements. All driveways and turning areas shall be kept clear of obstructions that prevent compliance with this condition.	Lismore City Council	Ongoing.
2.12	The proponent shall provide MEG, on or before January 31, April 30, July 31 and October 31 in each year, with extraction figures detailing quantities of all material removed from the site for the previous quarter of operations	Lismore City Council	Ongoing.
2.13	Annual payment of contributions levied under Section 94 of the Environmental Planning and Assessment Act and Lismore City Council S94 Contributions Plan 2004 (as amended) are required. Such levies shall contribute towards the provision of public services and/or amenities identified. Such levies shall be calculated utilising dispatched tonnages with consideration to the below:	Lismore City Council	Ongoing.

Quarry Operations

The rates and amounts applying at the date of this notice for the approved extraction rate of 600,000 tonnes, totalling \$560,628 annually, have been calculated as set out below for your information.

Levies set out below shall be increased in accordance with the percentage increase as notified by the Consumer Price Index (Sydney) annually. Levies shall be paid within 30 days of the Council issuing an assessment for the preceding year.

The contributions set out in the schedule are exclusive of any GST (if any) and where the provision of any services or the construction of any infrastructure or any other thing with those contributions occurs, then in addition to the amount specified above the Applicant will pay to the Council the GST (as defined below) which is payable by the Council in respect of the provision of such services or the construction of any infrastructure or any other thing.

GST means any tax levy charge or impost under the authority of any GST law (as defined by the GST Act) and includes GST within the meaning of the GST Act.

The GST Act means A New Tax System (Goods and Services Tax) Act 1999 or any amending or succeeding legislation.

The levy shall be calculated in accordance with Councils adopted section 94 plan as at this date and be based on the following information:

- Road construction cost of \$369,000 per kilometre indexed for CPI annually from December 2003)
- Average haulage distance of 15 kilometres
- For use in calculations a conversion factor 1.7 from m³ to tonnes has been adopted
- The first 5,000m³ (8,500 tonnes) per annum shall be exempt from levies.

Levy calculation for yearly extraction will be:

$(\$396,000/6.74 \times 10^6) \times 15\text{km} \times (\text{Annual tonnage extracted} - 8,500) \times 1.025 \times \text{CPI}$

$= (396,000/ 6.74 \times 10^6) \times 15\text{km} \times (600,000 - 8,500) \times 1.025 \times 1.126$

$= \$560,628$

Asphalt Operations

The levy shall be calculated in accordance with Councils adopted section 94 plan

e.g. 10 cents for each tonne of bituminous mix produced, and road transported from the site. This levy will be increased annually in accordance with Consumer Price Index as calculated by the

<p>Australian Bureau of Statistics. The levy shall apply from the date of this consent and shall be paid in monthly instalments based on tonnage measured on the applicant's weighbridge.</p> <p>This condition does not in any way prevent the Council from increasing the abovementioned levy at any time if this were so agreed with the operator.</p>			
2.14	A Traffic Noise Management Strategy (TNMS) be developed by the proponent to ensure that feasible and reasonable noise management strategies for vehicle movements associated with the facility are identified and applied, that include but are not necessarily limited to the following:	Lismore City Council	Prior to the operation of the expanded quarry.
2.14.1	Driver training to ensure that noisy practices such as the use of compression engine brakes are not unnecessarily used near sensitive receivers;		
2.14.2	Best noise practice in the selection and maintenance of fleet vehicles;		
2.14.3	Movement scheduling where practicable to reduce impacts during sensitive times of the day;		
2.14.4	Communication and management strategies for non licensee/proponent owned and operated vehicles to ensure the provision of the TNMS are implemented;		
2.14.5	A system of audited management practices that identified non conformances, initiates and monitors corrective and preventative action (including disciplinary action for breaches of noise minimisation procedures) and assesses the implementation and improvement of the TNMS;		
2.14.6	Specific procedures to minimise impacts to identified sensitive receivers;		
2.14.7	Clauses in conditions of employment, or in contracts, of drivers that require adherence to noise minimisation procedures and facilitate effective implementation of the disciplinary actions for breaches of the procedures.		
3	Ecological Considerations		
3.1	The vegetation on the site will be cleared and managed in accordance with the approved Management Plans.	Lismore City Council	Ongoing.
3.2	The Koala Plan of Management prepared by Conacher Travers (2006) (refer to Appendix f) will be implemented including: <ul style="list-style-type: none"> Habitat protection works; Habitat restoration works; Traffic management controls; Dog/Feral Animal Management measures; and Bushfire Management. 	Lismore City Council	Ongoing
3.3	Lismore City Council will provide at least 45 hectares of mature, vegetated land to be retained to offset the 10.2 hectares to be lost as a result of the proposed development. The offset will be provided at a rate of approximately 4:1. The 45 hectares will be the same vegetation type as that to be removed (Tall Open	Lismore City Council	Prior to the removal of existing vegetation.

Forest) or a type of higher ecological significance (such as Lowland Rainforest EEC or Koala Habitat) and may be located at a single site or numerous sites that Council own in the LGA, which are suitable to be set aside for ecological preservation. Lismore City Council will undertake ecological assessments of any land proposed to be identified as a vegetation offset site and develop an offset strategy for submission to the **Secretary** and **BCD** for approval, taking into consideration **BCD's** document *Principles for the Use of Biodiversity Offsets in NSW* (**Office of Environment and Heritage, 2014**).

The provision of nest and roost boxes will only be a short term measure, that is, provided as a measure for the protection and conservation of fauna during felling of hollow-bearing trees.

4 Aboriginal Heritage

4.1	All site employees/ contractors will undergo site induction training that includes stop work procedures if archaeological sites are discovered.	Lismore City Council	Ongoing.
4.2	Information regarding heritage requirements will be made available on site for employees/contractors.	Lismore City Council	Ongoing.
4.3	If an Aboriginal item is found all work will cease and the police, relevant Aboriginal community groups and a suitably qualified archaeologist contracted.	Lismore City Council	Ongoing.

5 Noise

5.1	The quarry will operate in accordance with the Conditions of Approval (Condition 1 of Schedule 3).	Lismore City Council	Ongoing.
5.2	Speed limits within the quarry site will be restricted to 40km/h and compression braking limited.	Lismore City Council	Ongoing.
5.3	4 metre earth bunds will be constructed to the north east and south west of the new southern quarry pit and a 5 metre earth bund will be constructed to the south of the existing Jaw Crusher as illustrated in Figures C.2 and C.3 in Annex C of the revised Noise Assessment (ERM, 2009) provided as Annex B to the report. During the short construction period for these bunds, the noise limits will be relaxed. Nearby residents will be notified when this work will take place.	Lismore City Council	Prior to the operation of the expanded quarry.
5.4	Attended noise monitoring and plant equipment audits will be undertaken.	Lismore City Council	Annually.
5.5	Plant will be relocated to greater pit depths as the floor of the quarry gets deeper.	Lismore City Council	Ongoing.
5.6	Noise Management Plan – the licensee must develop a Noise Management Plan for the quarry which must incorporate but not be limited to, the following: <ul style="list-style-type: none"> • noise compliance; • noise limits; 	Lismore City Council	Prior to the operation of the expanded quarry.

	<ul style="list-style-type: none"> • blasting noise; and • road traffic noise. 		
5.7	A noise compliance assessment (including airblast overpressure and ground vibration from blasting) shall be submitted to the EPA within three (3) months of commencement of expanded operations at the premises. The assessment shall be prepared by a suitable qualified and experienced acoustical consultant and shall assess compliance with noise and blasting limits presented in conditions 5.8 and 6.1 – 6.4	Lismore City Council	Within 3 months of commencement of expanded operations.
5.8	Noise from the premises must not exceed the limits presented in condition 3 of Schedule 3.	Lismore City Council	Ongoing.
5.9	Noise from Blakebrook Quarry is to be measured at the most affected point within the residential boundary, or at the most affected point within 30 metres of the dwelling where the dwelling is more than 30 metres from the boundary, to determine compliance with the noise level limits in Condition 5.8 unless otherwise stated.	Lismore City Council	Ongoing.
5.10	Where it can be demonstrated that direct measurement of noise from the Blakebrook Quarry is impractical, the EPA may accept alternative means of determining compliance. See Chapter 11 of the <i>NSW Industrial Noise Policy</i> . The modification factors presented in Section 4 of the <i>NSW Industrial Noise Policy</i> shall also be applied to the measured noise levels where applicable.	Lismore City Council	Ongoing.
5.11	The noise emission limits identified in Condition 5.8 apply under meteorological conditions of wind speed up to 3 metres per second at 10 metres above ground level.	Lismore City Council	Ongoing.
6	Blasting Limits		
6.1	The overpressure level from blasting operations at the Blakebrook Quarry must not exceed 115dB (Lin Peak) for more than 5 per cent of the total blasts over each reporting period of 12 months. Error margins associated with any monitoring equipment used to measure this area are not to be taken into account in determining whether or not the limit has been exceeded	Lismore City Council	Ongoing.
6.2	The overpressure level from blasting operations at the Blakebrook Quarry must not exceed 120dB (Lin Peak) at any time. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded	Lismore City Council	Ongoing.
6.3	Ground vibration peak particle velocity from the blasting operations at the premises must not exceed 5mm/sec for more than 5 per cent of the total number of blasts over each reporting period of 12 months. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded	Lismore City Council	Ongoing.
6.4	Blasting operations at the premises may only take place between 9.00am-5.00pm Monday to Friday. (Where compelling safety reasons exist, the Authority may permit a blast to occur outside the abovementioned hours. Prior	Lismore City Council	Ongoing.

written (or facsimile) notification of any such blast must be made to the Authority.

To determine compliance with Conditions 6.1-6.4:



- a) airblast overpressure and ground vibration levels must be measured and electronically recorded at the closest and potentially most exposed receiver location in L6.1 to the blast activity for all blasts carried out in or on the premises; and
- b) Instrumentation used to measure the airblast overpressure and ground vibration levels must meet the requirements of Australian Standard AS 2187.2-2006.

7	Air Quality			
7.1	All unsealed haul routes on the site will be watered at a rate of 2 L/m ² /minute as required.	Lismore City Council	Ongoing.	
7.2	Water sprays will be used on all mobile crushing, stockpiles and screening equipment to minimise airborne particulate matter.	Lismore City Council	Ongoing.	
7.3	All road trucks must have tarpaulin covers in place prior to leaving the weighbridge	Lismore City Council	Ongoing.	
7.4	A dust deposition gauge network will be developed to ensure compliance with cumulative dust deposition criteria.	Lismore City Council	At or before production rates at the quarry reach 337,500 tonnes/annum.	
7.5	Stockpiles are to be seeded to minimize the potential for fugitive dust	Lismore City Council	Ongoing.	
8	Groundwater Management			
8.1	A detailed groundwater assessment will be undertaken prior to the commencement of vertical extraction. This will involve the installation of nested ground water monitoring wells. The wells will be installed to at least two depths at a minimum of three separate locations around the perimeter of the quarry in order to intercept identified distinct water bearing zones.	Lismore City Council	Following approval of the quarry expansion and prior to the commencement of vertical extraction	
8.2	A quarterly groundwater monitoring program will be undertaken as detailed in Section 8.4.1 of the EA (ERM, 2009) and will involve analysis by a NATA Laboratory.	Lismore City Council	Quarterly following approval of the quarry expansion and prior to the commencement of vertical extraction.	
8.3	Should it be determined that environmental flows from springs are being reduced by extraction activities, investigation will commence on supplementing flows using water collected in the quarry pit. Water collected in the quarry will have to meet water quality criteria before it is discharged, with discharge to be licensed under the EPA.	Lismore City Council	Ongoing.	

9	Surface Water Management		
9.1	Clean run-off from the surround small sub-catchments will be diverted away from the quarry pits to existing ephemeral water courses. Water collected within the pits will be stored in in-pit dams and used for processing and dust suppression purposes. Discharge of quarry water from the site will occur via approved surface water discharge locations only.	Lismore City Council	Ongoing.
10	Quarry Rehabilitation		
10.1	A progressive rehabilitation approach will be undertaken to make safe the site and to rehabilitate the site and benches to tie into the surrounding woodland. All on-site infrastructure will be removed.	Lismore City Council	Ongoing and on completion of quarrying.
10.2	Lismore City Council will commit to the ongoing allocation of funds for the progressive rehabilitation of the Quarry in the determination of its annual operational budget. The allocation of funds will be tied to demand and the output of the Quarry, with the allocation to be in the order of \$30 000 to \$50 000. The allocated money will be accumulated pending the availability of areas to be rehabilitated. The budget allocation may also be increased over the lifetime of the quarry to reflect inflationary changes and rehabilitation need as necessary.	Lismore City Council	Ongoing and on completion of quarrying.
10.3	A suitably qualified and experienced professional will be engaged to carry out on-going maintenance and monitoring. This will involve activities such as bushland rehabilitation, weed removal and nest box erection.	Lismore City Council	Upon commencement of rehabilitation activities and upon completion of quarrying.
10.4	The success of the rehabilitation program will be monitored in accordance with the <i>Mine Rehabilitation Handbook</i> .	Lismore City Council	Upon commencement of rehabilitation activities and upon completion of quarrying.

APPENDIX 3 RECEIVER LOCATION PLAN



Legend
 Noise Logger
 Noise Assessment Locations

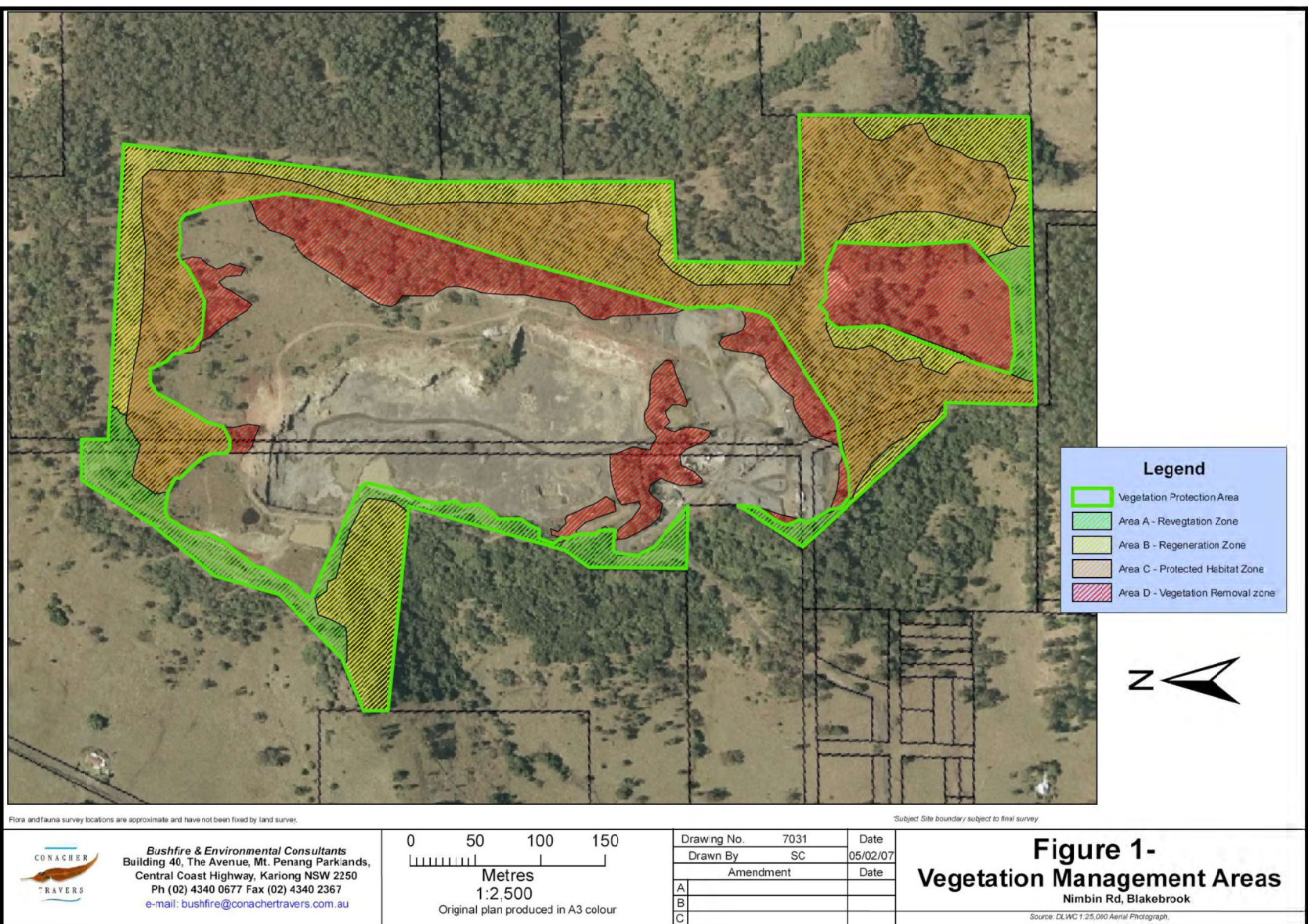
Client:	Lismore City Council
Project:	Blalvebrook Quarry Noise Assessment
Drawing No:	0066641s_01_R1
Date:	11/06/2009
Drawn by:	GC
Source:	-
Scale:	Not to Scale



Figure 2.1
Noise Assessment and Logging Locations

Environmental Resources Management Australia Pty Ltd
 Building C, 33 Saunders St, Pymont, NSW 2009
 Telephone +61 2 8584 8888





APPENDIX 5 NOISE COMPLIANCE ASSESSMENT

Applicable Meteorological Conditions

1. The noise criteria in Table 2 are to apply under all meteorological conditions except the following:
 - (a) wind speeds greater than 3 m/s at 10 m above ground level; or
 - (b) temperature inversion conditions between 1.5°C and 3°C/100 m and wind speed greater than 2 m/s at 10 m above ground level; or
 - (c) temperature inversion conditions greater than 3°C/100 m.

Determination of Meteorological Conditions

2. Except for wind speed at microphone height, the data to be used for determining meteorological conditions must be that recorded by the meteorological station required under condition 13 of Schedule 3.

Compliance Monitoring

3. A noise compliance assessment must be undertaken within two months of commencing mining operations under EA (Mod 1). The assessment must be conducted by a suitably qualified and experienced acoustical practitioner and must assess compliance with the noise criteria in Table 2. A report must be provided to the Secretary and EPA within 1 month of the assessment.
4. Unless the Secretary agrees otherwise, this monitoring is to be carried out in accordance with the relevant requirements for reviewing performance set out in the NSW Industrial Noise Policy (as amended from time to time), in particular the requirements relating to:
 - (a) monitoring locations for the collection of representative noise data;
 - (b) equipment used to collect noise data, and conformity with Australian Standards relevant to such equipment;
 - (c) modifications to noise data collected, including for the exclusion of extraneous noise and/or penalties for modifying factors apart from adjustments for duration; and
 - (d) the use of an appropriate modifying factor for low frequency noise to be applied during compliance testing. *This should be undertaken in accordance with Fact Sheet C of the NSW Noise Policy for Industry (EPA, 2017).*



Appendix B

Environmental Protection Licence 3384

Licence Variation

Licence - 3384



LISMORE CITY COUNCIL
ABN 60 080 932 837
PO BOX 23A
GOONELLABAH NSW 2480

Attention: [REDACTED]

Notice Number 1621040
File Number EF13/3226
Date 13-Mar-2023

NOTICE OF VARIATION OF LICENCE NO. 3384

BACKGROUND

- A. LISMORE CITY COUNCIL ("the licensee") is the holder of Environment Protection Licence No. 3384 ("the licence") issued under the *Protection of the Environment Operations Act 1997* ("the Act"). The licence authorises the carrying out of activities at NIMBIN ROAD, BLAKEBROOK, NSW, 2480 ("the premises").
- B. On the Environment Protection Authority (EPA) drafted an application for the variation of the licence.
- C. During the Risk Based Licensing (RBL) inspection on 09 May 2022, EPA Officers observed council actively discharging from Sediment Basin 1 (SB1). The EPA Officers questioned council about the practice and was informed that it was Lismore City Councils (LCC) understanding that the practice is allowed to reinstate SB1 five day rainfall event capacity. The EPA have reviewed the EPL and updated condition L2.5 to improve clarity.
- D. Under s45 of the Act, ss (d), the variation seeks to reduce the potential impact to the environment by reducing the volume of un-monitored water entering the receiving environment.
- E. The EPA encourages licensees to make use of condition L2.6 to use turbidity (NTU) in place of TSS to determine compliance with Condition L2.3. This will enable the licensee to rapidly assess the condition of the water in the sediment basin and take appropriate measures to meet ANZEC guidelines before release in line with L2.10.

VARIATION OF LICENCE NO. 3384

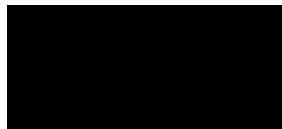
- 1. By this notice the EPA varies licence No. 3384. The attached licence document contains all variations that are made to the licence by this notice.

Licence Variation



2. The following variations have been made to the licence:

- From: L2.5 The concentration limits in the table above do not apply to any discharge from Point 1 solely arising from a rainfall event exceeding 60.2 mm (the 90 percentile 5 day rain event) in total falling over any consecutive five day period.
- To: L2.5 The concentration limits in the table above do not apply to any **passive (overflow)** discharge from Point 1 solely arising from a rainfall event exceeding 60.2 mm (the 90 percentile 5 day rain event) in total falling over any consecutive five day period.
- Note: Passive discharge is an overflow event. Active or controlled discharge is a discharge that requires human intervention to occur, such as; siphoning, pumping or trenching.
- Added L.211 If the licensee chooses to use NTU, the licence must use the NTU to TSS correlation and calculation as per the 2022 Revised Soil & Water Management Plan (DOC22/784576-1).



Acting Unit Head

Environment Protection Authority

(by Delegation)

INFORMATION ABOUT THIS NOTICE

- This notice is issued under section 58(5) of the Act.
- Details provided in this notice, along with an updated version of the licence, will be available on the EPA's Public Register (<http://www.epa.nsw.gov.au/prpoeo/index.htm>) in accordance with section 308 of the Act.

Appeals against this decision

- You can appeal to the Land and Environment Court against this decision. The deadline for lodging the appeal is 21 days after you were given notice of this decision.

When this notice begins to operate

- The variations to the licence specified in this notice begin to operate immediately from the date of this notice, unless another date is specified in this notice.
- If an appeal is made against this decision to vary the licence and the Land and Environment Court directs that the decision is stayed the decision does not operate until the stay ceases to have effect or the Land and Environment Court confirms the decision or the appeal is withdrawn (whichever occurs first).

Licence Variation





Environment Protection Licence

Licence - 3384

Licence Details	
Number:	3384
Anniversary Date:	17-January

Licensee	
LISMORE CITY COUNCIL	
PO BOX 23A	
GOONELLABAH NSW 2480	

Premises	
LISMORE OR BLAKEBROOK QUARRY	
NIMBIN ROAD	
BLAKEBROOK NSW 2480	

Scheduled Activity	
Extractive activities	

Fee Based Activity	Scale
Extractive activities	> 100000-500000 T annually extracted or processed

Contact Us	
NSW EPA	
6 Parramatta Square	
10 Darcy Street	
PARRAMATTA NSW 2150	
Phone: 131 555	
Email: info@epa.nsw.gov.au	
Locked Bag 5022	
PARRAMATTA NSW 2124	



Environment Protection Licence

Licence - 3384

INFORMATION ABOUT THIS LICENCE	4
Dictionary	4
Responsibilities of licensee	4
Variation of licence conditions	4
Duration of licence	4
Licence review	4
Fees and annual return to be sent to the EPA	4
Transfer of licence	5
Public register and access to monitoring data	5
1 ADMINISTRATIVE CONDITIONS	6
A1 What the licence authorises and regulates	6
A2 Premises or plant to which this licence applies	6
A3 Other activities	6
A4 Information supplied to the EPA	7
2 DISCHARGES TO AIR AND WATER AND APPLICATIONS TO LAND	7
P1 Location of monitoring/discharge points and areas	7
3 LIMIT CONDITIONS	7
L1 Pollution of waters	7
L2 Concentration limits	8
L3 Waste	9
L4 Noise limits	9
L5 Blasting	9
L6 Hours of operation	10
4 OPERATING CONDITIONS	11
O1 Activities must be carried out in a competent manner	11
O2 Maintenance of plant and equipment	11
O3 Dust	11
O4 Processes and management	11
O5 Other operating conditions	12
5 MONITORING AND RECORDING CONDITIONS	13
M1 Monitoring records	13
M2 Requirement to monitor concentration of pollutants discharged	13
M3 Testing methods - concentration limits	13
M4 Environmental monitoring	14
M5 Recording of pollution complaints	14



Environment Protection Licence

Licence - 3384

M6	Telephone complaints line	14
M7	Blasting	14
M8	Other monitoring and recording conditions	15
6	REPORTING CONDITIONS	15
R1	Annual return documents	15
R2	Notification of environmental harm	16
R3	Written report	16
7	GENERAL CONDITIONS	17
G1	Copy of licence kept at the premises or plant	17
DICTIONARY		18
	General Dictionary	18

Environment Protection Licence

Licence - 3384

Information about this licence

Dictionary

A definition of terms used in the licence can be found in the dictionary at the end of this licence.

Responsibilities of licensee

Separate to the requirements of this licence, general obligations of licensees are set out in the Protection of the Environment Operations Act 1997 ("the Act") and the Regulations made under the Act. These include obligations to:

- ensure persons associated with you comply with this licence, as set out in section 64 of the Act;
- control the pollution of waters and the pollution of air (see for example sections 120 - 132 of the Act);
- report incidents causing or threatening material environmental harm to the environment, as set out in Part 5.7 of the Act.

Variation of licence conditions

The licence holder can apply to vary the conditions of this licence. An application form for this purpose is available from the EPA.

The EPA may also vary the conditions of the licence at any time by written notice without an application being made.

Where a licence has been granted in relation to development which was assessed under the Environmental Planning and Assessment Act 1979 in accordance with the procedures applying to integrated development, the EPA may not impose conditions which are inconsistent with the development consent conditions until the licence is first reviewed under Part 3.6 of the Act.

Duration of licence

This licence will remain in force until the licence is surrendered by the licence holder or until it is suspended or revoked by the EPA or the Minister. A licence may only be surrendered with the written approval of the EPA.

Licence review

The Act requires that the EPA review your licence at least every 5 years after the issue of the licence, as set out in Part 3.6 and Schedule 5 of the Act. You will receive advance notice of the licence review.

Fees and annual return to be sent to the EPA

For each licence fee period you must pay:

- an administrative fee; and
- a load-based fee (if applicable).



Environment Protection Licence

Licence - 3384

The EPA publication “A Guide to Licensing” contains information about how to calculate your licence fees. The licence requires that an Annual Return, comprising a Statement of Compliance and a summary of any monitoring required by the licence (including the recording of complaints), be submitted to the EPA. The Annual Return must be submitted within 60 days after the end of each reporting period. See condition R1 regarding the Annual Return reporting requirements.

Usually the licence fee period is the same as the reporting period.

Transfer of licence

The licence holder can apply to transfer the licence to another person. An application form for this purpose is available from the EPA.

Public register and access to monitoring data

Part 9.5 of the Act requires the EPA to keep a public register of details and decisions of the EPA in relation to, for example:

- licence applications;
- licence conditions and variations;
- statements of compliance;
- load based licensing information; and
- load reduction agreements.

Under s320 of the Act application can be made to the EPA for access to monitoring data which has been submitted to the EPA by licensees.

This licence is issued to:

LISMORE CITY COUNCIL
PO BOX 23A
GOONELLABAH NSW 2480

subject to the conditions which follow.



Environment Protection Licence

Licence - 3384

1 Administrative Conditions

A1 What the licence authorises and regulates

A1.1 This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, fee-based activity classification and the scale of the operation.

Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition.

Scheduled Activity	Fee Based Activity	Scale
Extractive activities	Extractive activities	> 100000 - 500000 T annually extracted or processed

A1.2 This licence regulates water pollution resulting from the activity/ies carried out at the premises specified in A2.

A1.3 Notwithstanding the maximum scale at condition A1.1, the maximum scale of extractive activity authorised under this licence must not exceed the extraction limit approved by the current development consent granted under the *Environmental Planning and Assessment Act 1979* for the premises specified in condition A2.

A2 Premises or plant to which this licence applies

A2.1 The licence applies to the following premises:

Premises Details
LISMORE OR BLAKEBROOK QUARRY
NIMBIN ROAD
BLAKEBROOK
NSW 2480
LOT 53 DP 1254990, LOT 54 DP 1254990
AREA DEPICTED AS "PREMISES BOUNDARY" AS SHOWN ON THE CURRENT PREMISES PLAN FILE HELD ON FILE EF13/3226.

A3 Other activities

A3.1 This licence applies to all other activities carried on at the premises, including:

Ancillary Activity
Bitumen Pre-mix or Hot-mix Industries



Environment Protection Licence

Licence - 3384

A4 Information supplied to the EPA

A4.1 Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence.

In this condition the reference to "the licence application" includes a reference to:

- a) the applications for any licences (including former pollution control approvals) which this licence replaces under the Protection of the Environment Operations (Savings and Transitional) Regulation 1998; and
- b) the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence.

2 Discharges to Air and Water and Applications to Land

P1 Location of monitoring/discharge points and areas

- P1.1 The following utilisation areas referred to in the table below are identified in this licence for the purposes of the monitoring and/or the setting of limits for any application of solids or liquids to the utilisation area.
- P1.2 The following points referred to in the table are identified in this licence for the purposes of the monitoring and/or the setting of limits for discharges of pollutants to water from the point.

Water and land

EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
1	Wet weather overflow	Wet weather overflow	Spillway of the settlement dam at the southern end of the site nearest the weighbridge as identified on the current site map entitled Blakebrook Quarry Monitoring Sites held on file EF13/3226.

3 Limit Conditions

L1 Pollution of waters

- L1.1 Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the Protection of the Environment Operations Act 1997.
- L1.2 The licensee must take all practical measures to avoid or minimise generation of total suspended solids



Environment Protection Licence

Licence - 3384

L2 Concentration limits

- L2.1 To avoid any doubt, this condition does not authorise the pollution of waters by any pollutant other than those specified in the table/s.
- L2.2 For each monitoring/discharge point or utilisation area specified in the table/s below (by a point number), the concentration of a pollutant discharged at that point, or applied to that area, must not exceed the concentration limits specified for that pollutant in the table.
- L2.3 Water and/or Land Concentration Limits

POINT 1

Pollutant	Units of Measure	50 Percentile concentration limit	90 Percentile concentration limit	3DGM concentration limit	100 percentile concentration limit
Oil and Grease	Visible				Nil
pH	pH				6.5 -8.5
Total suspended solids	milligrams per litre				50

- L2.4 Where a pH quality limit is specified in the table, the specified percentage of samples must be within the specified ranges.
- L2.5 The concentration limits in the table above do not apply to any passive (overflow) discharge from Point 1 solely arising from a rainfall event exceeding 60.2 mm (the 90 percentile 5 day rain event) in total falling over any consecutive five day period.
- L2.6 If the licensee uses turbidity (NTU) in place of TSS to determine compliance with Condition L3.3, the licensee must develop a statistical correlation which identifies the relationship between NTU and TSS for water quality in the sediment basin/s in order to determine the NTU equivalent of 50 mg/L TSS before its use.
- L2.7 The licensee must provide the EPA with a copy of the statistical correlation assessment methodology and results before using NTU in place of TSS.
- L2.8 The licensee must develop and implement a method to enable the ongoing verification of the relationship between NTU and TSS.
- L2.9 The licensee must provide the EPA with any amendments the licensee makes to the statistical correlation as a result of the ongoing verification required by Condition L3.8 before using the revised statistical correlation.
- L2.10 All controlled discharges from the premises must be from licensed discharge Point 1. They must not exceed a 100th percentile limit for Total Suspended Solids concentration of 50mg/L. All discharges are to fall within the pH range of between 6.5 and 8.5. There is to be no visible oils and greases in any controlled discharges.

Environment Protection Licence

Licence - 3384

Note: Passive discharge is an overflow event. Active or controlled discharge is a discharge that requires human intervention to occur, such as; syphoning, pumping or trenching.

L2.11 If the licensee chooses to use NTU, the licence must use the NTU to TSS correlation and calculation as per the 2022 Revised Soil & Water Management Plan (DOC22/784576-1).

L3 Waste

L3.1 The licensee must not cause, permit or allow any waste generated outside the premises to be received at the premises for storage, treatment, processing, reprocessing or disposal, excluding the following:

- a) Glass sand recovered from the Lismore Recycling and Recovery Centre.

L4 Noise limits

L4.1 Noise from the licenced premise must not exceed an LAeq (15 minute) noise emission criterion of 36db(A) at Location 2 and 7 and 35db(A) at all other sensitive receivers, except as expressly provided by this licence.

L4.2 Noise from the premises is to be measured at the most affected noise sensitive receiver who has not given written permission for an exceedance of condition L5.1 to determine compliance with this condition.

Note: Noise sensitive locations means buildings used as a residence, hospital, school, childcare centre, places of public worship and nursing homes. A noise sensitive location includes the land within 30m of the building.

L4.3 The noise limits set out in the Noise Limits table apply under all meteorological conditions except for the following:

- a) Wind speeds greater than 3 metres/second at 10 metres above ground level; or
- b) Temperature inversion conditions up to 3°C/100m and wind speeds greater than 2 metres/second at 10 metres above ground level; or
- c) Temperature inversion conditions greater than 3°C/100m.

L5 Blasting

L5.1 The airblast overpressure level from blasting operations in or on the premises must not exceed:

- a) 115 dB (Lin Peak) for more than 5% of the total number of blasts during each reporting period; and
- b) 120 dB (Lin Peak) at any time.

as measured at the nearest sensitive receiver

L5.2 The ground vibration peak particle velocity from blasting operations carried out in or on the premises must not exceed:

- a) 5mm/s for more than 5% of the total number of blasts carried out on the premises during each reporting period; and
- b) 10 mm/s at any time.



Environment Protection Licence

Licence - 3384

At the most affected residence or noise sensitive location that is not owned by the licensee or subject to a private agreement between the owner of the residence or noise sensitive location and the licensee as to an alternative ground vibration level .

- L5.3 All sensitive receivers are to be given at least 24 hours notice when blasting is to be undertaken.
- L5.4 The licensee must report any exceedance of the licence blasting limits to the EPA within 24 hours of the exceedance becoming known to the licensee or to one of the licensee's employees or agents.

L6 Hours of operation

L6.1 Activities covered by this licence must be in accordance with the operating hours set out in the table below

Activity	Permissible Hours
Quarrying activities, asphalt plant operations and loading and dispatch of laden trucks	07:00 to 18:00 Monday to Friday; 07:00 to 15:00 on Saturday and at no time on Sundays and Public Holidays
Blasting	10:00 to 15:00 Monday to Friday and at no time on Saturday, Sunday and Public Holidays
Maintenance	May be conducted at any time provided that these activities are not audible at any privately-owned residence

- L6.2 The following activities may be carried out outside the hours specified in Condition L7.1 above:
- delivery or despatch of material outside the hours of as requested by police or other public authorities
 - emergency work to avoid the loss of lives, property or to prevent environmental harm
 - operation of the asphalt plant with the permission of Lismore City Council for emergency or specific works where a traffic management problem is involved.

In such circumstances, prior notification must be provided to the EPA and affected residents as prior to undertaking the activity or as soon as possible thereafter.

Note: Where a blast failure has occurred or there are compelling safety reasons, the EPA may permit a blast to occur outside the above hours. The licensee must provide prior notice of any such blast to the EPA by contacting 131 555.

L6.3 Out of hours work implemented in accordance with conditions of approval

The licensee may also undertake limited campaign asphalt plant operations (within the limits imposed under Application No: 07_0020, Mod 3,condition 8, Schedule 2), outside of the operating hours prescribed in condition L6.1, as requested by public authorities.

In such circumstances, the licensee must prepare an Out of Hours Work Protocol. This protocol must:

1. be prepared in consultation with the EPA and any residents who may be affected by the noise generated by these works; and

Environment Protection Licence

Licence - 3384

2. be approved by the NSW Department of Planning and Environment Secretary prior to the commencement of any out of hours asphalt plant operations.

L6.4 Out of Hours Work reporting

Any works undertaken through these provisions are to be reported to the EPA in accordance with condition R1.9.

4 Operating Conditions

O1 Activities must be carried out in a competent manner

O1.1 Licensed activities must be carried out in a competent manner.

This includes:

- a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and
- b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.

O2 Maintenance of plant and equipment

O2.1 All plant and equipment installed at the premises or used in connection with the licensed activity:

- a) must be maintained in a proper and efficient condition; and
- b) must be operated in a proper and efficient manner.

O3 Dust

O3.1 The premises must be maintained in a condition which minimises or prevents the emission of dust from the premises.

O3.2 Trucks entering and leaving the premises that are carrying loads must be covered at all times, except during loading and unloading.

O4 Processes and management

O4.1 Sediment Basins shall be treated, if required, to reduce the Total Suspended Solids level to the licenced concentration limit of 50mg/L before being released to the environment. Treatment can be with gypsum or any other material that has been approved by the EPA.

O4.2 The licensee must maximise the diversion of run-on waters from lands upslope and around the site whilst land disturbance activities are being undertaken.

O4.3 The licensee must maximise the diversion of stormwater runoff containing suspended solids to sediment basins installed on the premises.

Environment Protection Licence

Licence - 3384

- O4.4 Where sediment basins are necessary, all sediment basins and associated drainage must be installed and commissioned prior to the commencement of any clearing or grubbing works within the catchment area of the sediment basin that may cause sediment to leave the site.
- O4.5 The licensee must ensure the design storage capacity of the sediment basins installed on the premises is reinstated within 5 days of the cessation of a rainfall event that causes runoff to occur on or from the premises.
- O4.6 The licensee must ensure that sampling point(s) for water discharged from the sediment basin(s) are provided and maintained in an appropriate condition to permit:
- a) the clear identification of each sediment basin and discharge point;
 - b) the collection of representative samples of the water discharged from the sediment basin(s); and
 - c) access to the sampling point(s) at all times by an authorised officer of the EPA.
- O4.7 The licensee must endeavour to maximise the reuse of captured stormwater on the premises.
- O4.8 Each sedimentation basin must have a marker (the “sedimentation basin marker”) that identifies the upper level of the sediment storage zone.
- O4.9 Whenever the level of liquid and other material in any sedimentation basin exceeds the level indicated by the sedimentation basin marker, the licensee must take all practical measures as soon as possible to reduce the level of liquid and other material in the sedimentation basin.
- O4.10 The sediment basins must meet the design and operational standards of Managing Urban Stormwater Soils and Construction: Volume 1 and Volume 2 E. Mines and quarries. The sediment basin sizes must be managed as outlined in the Blakebrook Quarry Soil and Water Management (Final) - 13 February 2019, prepared by Gilbert & Sutherland on behalf of Lismore City Council.
- O4.11 The sites sediment basin(s) must be maintained and operated to ensure that:
- All 5-day rainfall events up to 60.2 mm (the 90th percentile 5 day rain event) are captured.
 - Any discharge from the licensed discharge point 1 that occurs as a result of rainfall below the 5-day total of 60.2 mm must meet the limit conditions specified in condition L3.3.
- O4.12 All liquid chemicals, fuels and oils must be stored in tanks or containers inside suitable bund(s). Bund(s) are to be designed, constructed and maintained in accordance with the relevant Australian Standard for the Storage and Handling of Flammable and Combustible Liquids.

O5 Other operating conditions

O5.1 Odour

The operation of the premises must not cause or permit the emission of offensive odour beyond the boundary of the premises.



Environment Protection Licence

Licence - 3384

5 Monitoring and Recording Conditions

M1 Monitoring records

- M1.1 The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.
- M1.2 All records required to be kept by this licence must be:
- a) in a legible form, or in a form that can readily be reduced to a legible form;
 - b) kept for at least 4 years after the monitoring or event to which they relate took place; and
 - c) produced in a legible form to any authorised officer of the EPA who asks to see them.
- M1.3 The following records must be kept in respect of any samples required to be collected for the purposes of this licence:
- a) the date(s) on which the sample was taken;
 - b) the time(s) at which the sample was collected;
 - c) the point at which the sample was taken; and
 - d) the name of the person who collected the sample.

M2 Requirement to monitor concentration of pollutants discharged

- M2.1 For each monitoring/discharge point or utilisation area specified below (by a point number), the licensee must monitor (by sampling and obtaining results by analysis) the concentration of each pollutant specified in Column 1. The licensee must use the sampling method, units of measure, and sample at the frequency, specified opposite in the other columns:
- M2.2 Water and/ or Land Monitoring Requirements

POINT 1

Pollutant	Units of measure	Frequency	Sampling Method
Oil and Grease	Visible	Special Frequency 1	Visual Inspection
pH	pH	Special Frequency 1	Grab sample
Total suspended solids	milligrams per litre	Special Frequency 1	Grab sample

- M2.3 For the purposes of the table(s) above Special Frequency 1 means:
- a) Sampling once <48 hours prior to actively emptying the sediment basin, and
 - b) Sampling every 5 working days for ongoing discharge events arising from rainfall less than 60.2mm falling in total over a period of up to five days duration.

M3 Testing methods - concentration limits

- M3.1 Subject to any express provision to the contrary in this licence, monitoring for the concentration of a pollutant

Environment Protection Licence

Licence - 3384

discharged to waters or applied to a utilisation area must be done in accordance with the Approved Methods Publication unless another method has been approved by the EPA in writing before any tests are conducted.

M4 Environmental monitoring

M4.1 The licensee is required to install and maintain a rainfall depth measuring device.

M4.2 Rainfall at the premises must be measured and recorded in millimetres per 24 hour period, at the same time each day.

M5 Recording of pollution complaints

M5.1 The licensee must keep a legible record of all complaints made to the licensee or any employee or agent of the licensee in relation to pollution arising from any activity to which this licence applies.

M5.2 The record must include details of the following:

- a) the date and time of the complaint;
- b) the method by which the complaint was made;
- c) any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect;
- d) the nature of the complaint;
- e) the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and
- f) if no action was taken by the licensee, the reasons why no action was taken.

M5.3 The record of a complaint must be kept for at least 4 years after the complaint was made.

M5.4 The record must be produced to any authorised officer of the EPA who asks to see them.

M6 Telephone complaints line

M6.1 The licensee must operate during its operating hours a telephone complaints line for the purpose of receiving any complaints from members of the public in relation to activities conducted at the premises or by the vehicle or mobile plant, unless otherwise specified in the licence.

M6.2 The licensee must notify the public of the complaints line telephone number and the fact that it is a complaints line so that the impacted community knows how to make a complaint.

M6.3 The preceding two conditions do not apply until 3 months after: the date of the issue of this licence.

M7 Blasting

M7.1 To determine compliance with condition(s) L5.2 and L5.3:

- a) Airblast overpressure and ground vibration levels must be measured at the most affected residence or

Environment Protection Licence

Licence - 3384

noise sensitive location that is not owned by the licensee or subject to a private agreement between the owner of the residence or noise sensitive location and the licensee as to an alternative level - for all blasts carried out in or on the premises; and

b) Instrumentation used to measure the airblast overpressure and ground vibration levels must meet the requirements of Australian Standard AS 2187.2-2006.

M8 Other monitoring and recording conditions

M8.1 Noise monitoring must be carried out in accordance with Australian Standard AS 2659.1 – 1998: Guide to the use of sound measuring equipment – Portable sound level meters, and the compliance monitoring guidance provided in the NSW Industrial Noise Policy.

6 Reporting Conditions

R1 Annual return documents

R1.1 The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:

1. a Statement of Compliance,
2. a Monitoring and Complaints Summary,
3. a Statement of Compliance - Licence Conditions,
4. a Statement of Compliance - Load based Fee,
5. a Statement of Compliance - Requirement to Prepare Pollution Incident Response Management Plan,
6. a Statement of Compliance - Requirement to Publish Pollution Monitoring Data; and
7. a Statement of Compliance - Environmental Management Systems and Practices.

At the end of each reporting period, the EPA will provide to the licensee notification that the Annual Return is due.

R1.2 An Annual Return must be prepared in respect of each reporting period, except as provided below.

R1.3 Where this licence is transferred from the licensee to a new licensee:

- a) the transferring licensee must prepare an Annual Return for the period commencing on the first day of the reporting period and ending on the date the application for the transfer of the licence to the new licensee is granted; and
- b) the new licensee must prepare an Annual Return for the period commencing on the date the application for the transfer of the licence is granted and ending on the last day of the reporting period.

R1.4 Where this licence is surrendered by the licensee or revoked by the EPA or Minister, the licensee must prepare an Annual Return in respect of the period commencing on the first day of the reporting period and ending on:

- a) in relation to the surrender of a licence - the date when notice in writing of approval of the surrender is given; or
- b) in relation to the revocation of the licence - the date from which notice revoking the licence operates.

R1.5 The Annual Return for the reporting period must be supplied to the EPA via eConnect *EPA* or by registered

Environment Protection Licence

Licence - 3384

post not later than 60 days after the end of each reporting period or in the case of a transferring licence not later than 60 days after the date the transfer was granted (the 'due date').

R1.6 The licensee must retain a copy of the Annual Return supplied to the EPA for a period of at least 4 years after the Annual Return was due to be supplied to the EPA.

R1.7 Within the Annual Return, the Statements of Compliance must be certified and the Monitoring and Complaints Summary must be signed by:

- a) the licence holder; or
- b) by a person approved in writing by the EPA to sign on behalf of the licence holder.

R1.8 The licensee must report any exceedence of the licence blasting limits to the regional office of the EPA as soon as practicable after the exceedence becomes known to the licensee or to one of the licensee's employees or agents.

Note: The term "reporting period" is defined in the dictionary at the end of this licence. Do not complete the Annual Return until after the end of the reporting period.

Note: An application to transfer a licence must be made in the approved form for this purpose.

R1.9 The licensee must also include the following information with the Annual Return:

- A statement detailing the total volume of material extracted from the quarry for the reporting period; and
- The total volume of extracted material transported from the premises for the reporting period.
- A statement detailing all Out of Hours Work activities undertaken and listing any complaints made in relation to such activities.

R2 Notification of environmental harm

R2.1 Notifications must be made by telephoning the Environment Line service on 131 555.

R2.2 The licensee must provide written details of the notification to the EPA within 7 days of the date on which they became aware of the incident.

Note: The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.

R3 Written report

R3.1 Where an authorised officer of the EPA suspects on reasonable grounds that:

- a) where this licence applies to premises, an event has occurred at the premises; or
 - b) where this licence applies to vehicles or mobile plant, an event has occurred in connection with the carrying out of the activities authorised by this licence,
- and the event has caused, is causing or is likely to cause material harm to the environment (whether the harm occurs on or off premises to which the licence applies), the authorised officer may request a written report of

Environment Protection Licence

Licence - 3384

the event.

- R3.2 The licensee must make all reasonable inquiries in relation to the event and supply the report to the EPA within such time as may be specified in the request.
- R3.3 The request may require a report which includes any or all of the following information:
- a) the cause, time and duration of the event;
 - b) the type, volume and concentration of every pollutant discharged as a result of the event;
 - c) the name, address and business hours telephone number of employees or agents of the licensee, or a specified class of them, who witnessed the event;
 - d) the name, address and business hours telephone number of every other person (of whom the licensee is aware) who witnessed the event, unless the licensee has been unable to obtain that information after making reasonable effort;
 - e) action taken by the licensee in relation to the event, including any follow-up contact with any complainants;
 - f) details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event; and
 - g) any other relevant matters.
- R3.4 The EPA may make a written request for further details in relation to any of the above matters if it is not satisfied with the report provided by the licensee. The licensee must provide such further details to the EPA within the time specified in the request.

7 General Conditions

G1 Copy of licence kept at the premises or plant

- G1.1 A copy of this licence must be kept at the premises to which the licence applies.
- G1.2 The licence must be produced to any authorised officer of the EPA who asks to see it.
- G1.3 The licence must be available for inspection by any employee or agent of the licensee working at the premises.



Environment Protection Licence

Licence - 3384

Dictionary

General Dictionary

3DGM [in relation to a concentration limit]	Means the three day geometric mean, which is calculated by multiplying the results of the analysis of three samples collected on consecutive days and then taking the cubed root of that amount. Where one or more of the samples is zero or below the detection limit for the analysis, then 1 or the detection limit respectively should be used in place of those samples
Act	Means the Protection of the Environment Operations Act 1997
activity	Means a scheduled or non-scheduled activity within the meaning of the Protection of the Environment Operations Act 1997
actual load	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
AM	Together with a number, means an ambient air monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
AMG	Australian Map Grid
anniversary date	The anniversary date is the anniversary each year of the date of issue of the licence. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
annual return	Is defined in R1.1
Approved Methods Publication	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
assessable pollutants	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
BOD	Means biochemical oxygen demand
CEM	Together with a number, means a continuous emission monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
COD	Means chemical oxygen demand
composite sample	Unless otherwise specifically approved in writing by the EPA, a sample consisting of 24 individual samples collected at hourly intervals and each having an equivalent volume.
cond.	Means conductivity
environment	Has the same meaning as in the Protection of the Environment Operations Act 1997
environment protection legislation	Has the same meaning as in the Protection of the Environment Administration Act 1991
EPA	Means Environment Protection Authority of New South Wales.
fee-based activity classification	Means the numbered short descriptions in Schedule 1 of the Protection of the Environment Operations (General) Regulation 2009.
general solid waste (non-putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997

Environment Protection Licence

Licence - 3384

flow weighted composite sample	Means a sample whose composites are sized in proportion to the flow at each composites time of collection.
general solid waste (putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
grab sample	Means a single sample taken at a point at a single time
hazardous waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
licensee	Means the licence holder described at the front of this licence
load calculation protocol	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
local authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
material harm	Has the same meaning as in section 147 Protection of the Environment Operations Act 1997
MBAS	Means methylene blue active substances
Minister	Means the Minister administering the Protection of the Environment Operations Act 1997
mobile plant	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
motor vehicle	Has the same meaning as in the Protection of the Environment Operations Act 1997
O&G	Means oil and grease
percentile [in relation to a concentration limit of a sample]	Means that percentage [eg.50%] of the number of samples taken that must meet the concentration limit specified in the licence for that pollutant over a specified period of time. In this licence, the specified period of time is the Reporting Period unless otherwise stated in this licence.
plant	Includes all plant within the meaning of the Protection of the Environment Operations Act 1997 as well as motor vehicles.
pollution of waters [or water pollution]	Has the same meaning as in the Protection of the Environment Operations Act 1997
premises	Means the premises described in condition A2.1
public authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
regional office	Means the relevant EPA office referred to in the Contacting the EPA document accompanying this licence
reporting period	For the purposes of this licence, the reporting period means the period of 12 months after the issue of the licence, and each subsequent period of 12 months. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
restricted solid waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
scheduled activity	Means an activity listed in Schedule 1 of the Protection of the Environment Operations Act 1997
special waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
TM	Together with a number, means a test method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .



Environment Protection Licence

Licence - 3384

TSP	Means total suspended particles
TSS	Means total suspended solids
Type 1 substance	Means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or more of those elements
Type 2 substance	Means the elements beryllium, chromium, cobalt, manganese, nickel, selenium, tin or vanadium or any compound containing one or more of those elements
utilisation area	Means any area shown as a utilisation area on a map submitted with the application for this licence
waste	Has the same meaning as in the Protection of the Environment Operations Act 1997
waste type	Means liquid, restricted solid waste, general solid waste (putrescible), general solid waste (non-putrescible), special waste or hazardous waste
Wellhead	Has the same meaning as in Schedule 1 to the Protection of the Environment Operations (General) Regulation 2021.

Mr Nigel Sargent

Environment Protection Authority

(By Delegation)

Date of this edition: 28-August-2000



Environment Protection Licence

Licence - 3384

End Notes	
1	Licence varied by notice 1012134, issued on 02-Apr-2002, which came into effect on 27-Apr-2002.
2	Licence varied by notice 1017834, issued on 03-Jun-2002, which came into effect on 28-Jun-2002.
3	Licence varied by notice 1020616, issued on 12-Sep-2002, which came into effect on 07-Oct-2002.
4	Licence varied by notice 1026159, issued on 31-Mar-2003, which came into effect on 25-Apr-2003.
5	Licence varied by notice 1031250, issued on 03-Oct-2003, which came into effect on 28-Oct-2003.
6	Licence varied by notice 1045315, issued on 11-Mar-2005, which came into effect on 05-Apr-2005.
7	Licence varied by notice 1049382, issued on 25-Aug-2005, which came into effect on 19-Sep-2005.
8	Condition A1.3 Not applicable varied by notice issued on <issue date> which came into effect on <effective date>
9	Licence varied by notice 1508293 issued on 22-Aug-2012
10	Licence varied by notice 1525659 issued on 30-Nov-2015
11	Licence varied by notice 1558031 issued on 27-Nov-2017
12	Licence varied by notice 1568156 issued on 06-Aug-2018
13	Licence format updated on 13-Feb-2019
14	Licence varied by notice 1577148 issued on 11-Mar-2019
15	Licence varied by notice 1598877 issued on 16-Sep-2020
16	Licence varied by notice 1613633 issued on 14-Jan-2022



Appendix C

DPE Response to 2021 AEMR

Department of Planning and Environment

Lismore City Council

[REDACTED]

Commercial Services Compliance Manager

PO Box 23A

LISMORE NSW 2480

05/04/2023

**Blakebrook Quarry (MP07_0020)
Annual Environment Management Review 2022**

Dear [REDACTED]

Reference is made to the Annual Review for the period 1 January 2022 to 31 December 2022 (**'the Annual Review'**) submitted to the Department of Planning and Environment (**'the Department'**) as required under Schedule 5, Condition 11 of MP 07_0020 (**'the Approval'**), as modified.

The Department has reviewed the Annual Review and considers it to generally satisfy the reporting requirements of the Approval and the Department's *Annual Review Guideline* (October 2015).

The Annual Review identifies seven non-compliances for the reporting period with the non-compliances discussed in the Annual Review having been reported to the Department. Five non-compliances have been addressed and completed in accordance with the Department's Compliance Policy. Two non-compliances remain under investigation by the Department, these relate to a potential asphalt production exceedance and the timing of a Property Investigation Report.

Please note that the Department's acceptance of this Annual Review is not an endorsement of the compliance status of the project. Outstanding non-compliances identified in the Annual Review will be assessed in accordance with the Department's Compliance Policy. Further correspondence may be sent in relation to these non-compliances.

Please make publicly available a copy of the Annual Review on the company's website.

Should you wish to discuss the matter further, please contact Phillip Rose, A/Senior Compliance Officer, on 02 6670 8657.

Yours sincerely

[REDACTED]

A/Team Leader – Far North Region
Compliance

As nominee of the Planning Secretary



Appendix D

Extractive Materials Return

How can we help?

Q

Home > Ticket Form

Search

Q

S1 Return for Extractive Materials has been submitted



29 Nov 2023 11:29:40

ROY0007163 Created

Start

Your request has been submitted

Number

ROY0007163

State

Closed Complete

Priority

4 - Low

Created

just now

Options

Return Period

FY23

Quarry

Lismore City Council - Northern Rivers Quarry and Asphalt Plant

Quarry Address

Blakebrook Quarry
Nimbin Road
Goolmangar via,
LISMORE NSW 2480

Operator Name

Eleisha Went

Email



Local Government Area

Lismore

Updated Local Government Area

Lismore

Deposited Plan

DP1254990

Lot Number/s

53

Virgin materials - Crushed coarse aggregates

[Click to view](#)

Calculate Total Site Production

true

TOTAL SITE PRODUCTION

196635.89

Gross Value (\$) of all Sales

5919517.32

Type of Material

Basalt/Latite/Dolerite (For Roads)

Number of Full-Time Equivalent (FTE) Employees

7

Number of Full-Time Equivalent (FTE) Contractors

2

To the best of my knowledge, information entered in this return is correct and no blank spaces left where figures should have been inserted.

true

*Tickets are picked
up within
4 hours (M-F 9-5)*

Attachments

There are no attachments

There are no attachments



Appendix E

Quarry Production Summary

Quarry Production Summary 2023



Product Name	Qty
--------------	-----

Client Category: Production

Crushing - 10mm Aggregate	17,633.10
Crushing - 14mm Aggregate	5,347.10
Crushing - 20mm Aggregate	3,371.85
Crushing - 20mm Roadbase	60,983.49
Crushing - 30mm minus	12,377.84
Crushing - 40mm Roadbase	11,091.75
Crushing - 7mm Aggregate	5,621.40
Crushing - Coarse Dust	44,455.60
Crushing - Crusher Run	10,165.58
Crushing - Gabien	13,192.65
Crushing - Rockfill	500.00
Crushing Cobble	439.10
Client Category: Production	185,179.46
	185,179.46



Appendix F

Asphalt Sales Summary

Asphalt Sales summary (date no price) 2023



Product Name	Ticket Number	Quantity
Trico AC10 COLMIX	68	674.42
Trico AC10 Type A CVC	580	4,427.82
Trico AC10H 450	181	2,352.86
Trico AC10RAP CVC	1	1.82
Trico AC10Std 450	990	8,313.98
Trico AC14H 450	855	11,257.20
Trico AC14H A15E	364	5,126.42
Trico AC14Std 450	16	196.88
Trico AC20H 450	304	4,382.61
Trico Asphalt Plant Waste	7	130.22
	3366	36,864.23



Appendix G

Laden Truck Movements

Blakebrook Quarry Daily truck Movements 2023

Date	Jan	Feb	Mar	Apr	May	June	Jul	Aug	Sep	Oct	Nov	Dec
1st		16	29	11	77	34	9	19	36	147	29	42
2nd		32	52	286	77	24	169	12			32	
3rd	0	27	14	67	56	10	32	39	160	57	54	155
4th	0	8		26	42	246	11	34	31	51		43
5th	0	123	195	54	46	23	23		33	51	154	23
6th	0	28	16	51		41	26	104	24	39	17	39
7th		20	43		298	43	18	44	27	7	45	18
8th	0	20	57		41	40		21	27	205	29	35
9th	3	19	75	198	57	14	110	27	14	31	28	32
10th	5	16	33		31		19	29	156	24	18	190
11th	13			46	38	161	30	39	20	34	6	32
12th	13	103	224	34	24		16		23	25	143	34
13th	6	22	44	58	14	29	23	160	32	24	37	52
14th		11	69	40	205	44	20	39	29		24	71
15th	40	28	57	20	2	61	6	8	18	138	34	66
16th	25	41	99	198	5	38	114	23	12	36	22	
17th	30	27	29	18	36	12	12	11	134	42	15	255
18th	15			24	61	184	13	28	24	14		37
19th	25	129	298	28	53	27	29	4	24	16	132	28
20th	7	23	61	29	10	27	20	113	61	14	41	22
21st		50	42	9	167	23	2	27	30		7	2
22nd	102	22	64		37	22		18	21	122	13	0
23rd	23	19	75	108	45	17	76	28		25	25	
24th	34	14	30	5	57	28	2	22	160	21	17	89
25th	20				49	144	12	25	29	32		
26th		128	272		48	17	24	7	35	12	103	
27th	21	65	35	51	10	32	47	127	45	2	24	
28th	15	35	58	13	246	33	15	29	16	4	33	
29th	113		59		53	50	32	21	22	96	34	
30th	23		46	69	59	28	132	32		16	22	
31st	17		77		66		0	42		23		0
Total	295	543	1164	584	1094	717	441	628	633	600	606	576
Avg	12.29	22.63	43.11	26.55	40.52	28.68	16.96	23.26	24.35	25.00	23.31	24.00
Trading Days	24	24	27	22	27	25	26	27	26	24	26	24

Quarry Vehicle Exit Data - 2023					
Quarry			Asphalt		
9/01/2023 1:07 PM	XO78KV	1	18/01/2023 9:02 AM	XN11UL	1
9/01/2023 2:28 PM	XQ94JV	1	19/01/2023 8:06 AM	CM78LJ	1
9/01/2023 3:00 PM	XO78KV	1	19/01/2023 8:58 AM	BX60RH	1
10/01/2023 7:20 AM	XO16OJ	1	19/01/2023 10:29 AM	881LIQ	1
10/01/2023 8:59 AM	XO16OJ	1	19/01/2023 10:35 AM	XO52BT	1
10/01/2023 10:36 AM	XO16OJ	1	19/01/2023 10:44 AM	BL23XK	1
10/01/2023 12:56 PM	XO16OJ	1	19/01/2023 11:03 AM	XO51CZ	1
10/01/2023 2:30 PM	XO16OJ	1	19/01/2023 11:16 AM	XN35OR	1
11/01/2023 7:33 AM	XO16OJ	1	19/01/2023 11:30 AM	XO51BT	1
11/01/2023 9:06 AM	XO16OJ	1	19/01/2023 12:43 PM	881LIQ	1
11/01/2023 10:58 AM	XO16OJ	1	19/01/2023 1:01 PM	XO52BT	1
11/01/2023 12:51 PM	XO16OJ	1	19/01/2023 1:46 PM	BL23XK	1
11/01/2023 12:58 PM	XO24AE	1	19/01/2023 2:26 PM	XO51CZ	1
11/01/2023 2:00 PM	XO24AE	1	19/01/2023 3:00 PM	XN35OR	1
11/01/2023 2:24 PM	XO16OJ	1	20/01/2023 8:47 AM	CP85HJ	1
12/01/2023 7:24 AM	CP60LI	1	23/01/2023 7:33 AM	XO44HG	1
12/01/2023 7:43 AM	XO45HG	1	23/01/2023 7:40 AM	XO33OJ	1
12/01/2023 7:47 AM	XO42GF	1	23/01/2023 7:51 AM	CI79PF	1
12/01/2023 8:49 AM	CP60LI	1	23/01/2023 7:53 AM	881LIQ	1
12/01/2023 8:52 AM	XO45HG	1	23/01/2023 7:55 AM	XQ680J	1
12/01/2023 9:18 AM	XO42GF	1	23/01/2023 8:00 AM	XQ95KJ	1
12/01/2023 9:53 AM	CP60LI	1	23/01/2023 8:13 AM	XO52BT	1
12/01/2023 9:55 AM	XO45HG	1	23/01/2023 8:27 AM	BL23XK	1
12/01/2023 11:09 AM	CP60LI	1	23/01/2023 8:43 AM	XO67AJ	1
12/01/2023 11:16 AM	XO45HG	1	23/01/2023 8:56 AM	XN86OK	1
12/01/2023 12:53 PM	CI61FI	1	23/01/2023 10:48 AM	XO33OJ	1
12/01/2023 1:12 PM	XO42GF	1	23/01/2023 11:08 AM	XO51BT	1
12/01/2023 2:25 PM	XO42GF	1	24/01/2023 7:21 AM	XQ95KJ	1
13/01/2023 10:15 AM	CI61FI	1	24/01/2023 7:24 AM	XO44HG	1

13/01/2023 10:17 AM	BY80LZ	1	24/01/2023 7:29 AM	XO33OJ	1
13/01/2023 11:25 AM	XO42GF	1	24/01/2023 7:33 AM	CI79PF	1
13/01/2023 11:52 AM	BY80LZ	1	24/01/2023 7:46 AM	XQ680J	1
13/01/2023 1:11 PM	BY80LZ	1	24/01/2023 8:05 AM	BL23XK	1
13/01/2023 2:25 PM	BY80LZ	1	24/01/2023 8:08 AM	XO52BT	1
16/01/2023 7:25 AM	XN82TZ	1	24/01/2023 8:18 AM	XN30AO	1
16/01/2023 7:27 AM	XO42GF	1	24/01/2023 8:48 AM	XN86OK	1
16/01/2023 7:28 AM	CI61FI	1	24/01/2023 8:53 AM	XO51CZ	1
16/01/2023 7:32 AM	XO42EW	1	24/01/2023 9:03 AM	XO67AJ	1
16/01/2023 7:36 AM	CN70EQ	1	24/01/2023 9:13 AM	881LIQ	1
16/01/2023 8:33 AM	XO26GF	1	24/01/2023 9:20 AM	XN35OR	1
16/01/2023 8:52 AM	CI61FI	1	24/01/2023 10:07 AM	XQ95KJ	1
16/01/2023 8:55 AM	XO42GF	1	24/01/2023 10:36 AM	881LIQ	1
16/01/2023 9:26 AM	XN82TZ	1	24/01/2023 11:27 AM	XO44HG	1
16/01/2023 9:35 AM	AC71LL	1	24/01/2023 11:43 AM	XQ95KJ	1
16/01/2023 9:36 AM	CN70EQ	1	24/01/2023 11:55 AM	XO52BT	1
16/01/2023 10:08 AM	CI61FI	1	24/01/2023 12:12 PM	BL23XK	1
16/01/2023 10:23 AM	XO42GF	1	24/01/2023 12:13 PM	XO33OJ	1
16/01/2023 10:37 AM	XO22GF	1	24/01/2023 12:34 PM	XN86OK	1
16/01/2023 10:53 AM	CN70EQ	1	24/01/2023 12:50 PM	XQ680J	1
16/01/2023 10:56 AM	XN82TZ	1	24/01/2023 1:33 PM	XO51CZ	1
16/01/2023 11:10 AM	XO26GF	1	24/01/2023 2:10 PM	XN30AO	1
16/01/2023 11:14 AM	AC71LL	1	25/01/2023 7:27 AM	XQ95KJ	1
16/01/2023 11:26 AM	XO42EW	1	25/01/2023 7:33 AM	XQ680J	1
16/01/2023 11:47 AM	XO57HG	1	25/01/2023 7:34 AM	XO44HG	1
16/01/2023 12:00 PM	XO22GF	1	25/01/2023 7:41 AM	XO33OJ	1
16/01/2023 12:52 PM	XN82TZ	1	25/01/2023 7:47 AM	881LIQ	1
16/01/2023 1:50 PM	XO47CZ	1	25/01/2023 7:52 AM	XN30AO	1
16/01/2023 1:54 PM	XO22GF	1	25/01/2023 7:54 AM	CI79PF	1
16/01/2023 2:24 PM	XN82TZ	1	25/01/2023 8:15 AM	XO52BT	1
17/01/2023 7:29 AM	XN82TZ	1	25/01/2023 8:28 AM	BL23XK	1

17/01/2023 7:34 AM	CI61FI	1	25/01/2023 8:47 AM	XO51CZ	1
17/01/2023 7:41 AM	XO42GF	1	25/01/2023 9:07 AM	XN86OK	1
17/01/2023 7:50 AM	CP83TG	1	25/01/2023 9:21 AM	XO67AJ	1
17/01/2023 7:52 AM	XO43EW	1	25/01/2023 9:36 AM	XN35OR	1
17/01/2023 7:54 AM	AC71LL	1	25/01/2023 9:48 AM	XO51BT	1
17/01/2023 8:00 AM	CP84TG	1	25/01/2023 10:33 AM	XQ680J	1
17/01/2023 8:06 AM	XO22GF	1	25/01/2023 12:28 PM	BL23XK	1
17/01/2023 8:55 AM	CI61FI	1	25/01/2023 12:45 PM	XO51CZ	1
17/01/2023 9:02 AM	XO42GF	1	25/01/2023 1:02 PM	XO52BT	1
17/01/2023 9:29 AM	XO22GF	1	27/01/2023 7:43 AM	BL23XK	1
17/01/2023 9:34 AM	XN82TZ	1	27/01/2023 7:46 AM	XN09UX	1
17/01/2023 10:02 AM	XO43EW	1	27/01/2023 8:08 AM	XO51CZ	1
17/01/2023 10:07 AM	AC71LL	1	27/01/2023 8:50 AM	XN35OR	1
17/01/2023 10:09 AM	CP83TG	1	27/01/2023 8:51 AM	XO52BT	1
17/01/2023 10:13 AM	CP84TG	1	27/01/2023 11:28 AM	BL23XK	1
17/01/2023 11:20 AM	XO22GF	1	27/01/2023 11:51 AM	XN86OK	1
17/01/2023 11:38 AM	XO43EW	1	27/01/2023 12:19 PM	XN35OR	1
17/01/2023 11:42 AM	CP83TG	1	27/01/2023 12:34 PM	XO52BT	1
17/01/2023 11:47 AM	AC71LL	1	27/01/2023 1:10 PM	XO51CZ	1
17/01/2023 11:50 AM	CP84TG	1	27/01/2023 1:23 PM	XN86OK	1
17/01/2023 12:45 PM	XO00NB	1	27/01/2023 1:44 PM	XO52BT	1
17/01/2023 1:27 PM	XO22GF	1	28/01/2023 7:43 AM	XN30AO	1
17/01/2023 1:56 PM	CP84TG	1	28/01/2023 7:55 AM	XO52BT	1
17/01/2023 2:02 PM	AC71LL	1	28/01/2023 8:10 AM	881LIQ	1
17/01/2023 2:03 PM	XN82TZ	1	28/01/2023 10:32 AM	XO51BT	1
17/01/2023 2:05 PM	CP83TG	1	28/01/2023 10:42 AM	CK38WU	1
17/01/2023 2:09 PM	XO43EW	1	28/01/2023 11:50 AM	BL23XK	1
17/01/2023 3:34 PM	XO00NB	1	28/01/2023 12:07 PM	XO52BT	1
17/01/2023 3:41 PM	XN82TZ	1	28/01/2023 12:29 PM	XN30AO	1
18/01/2023 7:14 AM	XO42GF	1	28/01/2023 1:14 PM	XN35OR	1
18/01/2023 7:23 AM	CI61FI	1	28/01/2023 1:19 PM	BL23XK	1

18/01/2023 7:33 AM	XN82TZ	1	28/01/2023 1:32 PM	XO51BT	1
18/01/2023 7:35 AM	XO00NB	1	28/01/2023 1:35 PM	XO52BT	1
18/01/2023 9:05 AM	CI61FI	2	28/01/2023 2:46 PM	XN35OR	1
18/01/2023 9:22 AM	XN82TZ	1	28/01/2023 2:59 PM	BL23XK	1
18/01/2023 9:46 AM	XO00NB	1	28/01/2023 10:49 PM	XN35OR	1
18/01/2023 10:40 AM	CI61FI	1	30/01/2023 8:07 AM	XO33OJ	1
18/01/2023 10:41 AM	XO42GF	1	30/01/2023 8:12 AM	XN09UX	1
18/01/2023 11:23 AM	XN82TZ	1	30/01/2023 8:21 AM	881LIQ	1
18/01/2023 11:58 AM	CI61FI	1	30/01/2023 8:31 AM	XN30AO	1
18/01/2023 1:11 PM	XN82TZ	1	30/01/2023 8:43 AM	XO52BT	1
18/01/2023 2:39 PM	XN82TZ	1	30/01/2023 9:03 AM	CK38WU	1
19/01/2023 7:23 AM	XN82TZ	1	30/01/2023 10:54 AM	XO77FK	1
19/01/2023 7:34 AM	CI61FI	1	30/01/2023 10:55 AM	BL23XK	1
19/01/2023 7:36 AM	CN70EQ	1	30/01/2023 10:58 AM	XN86OK	1
19/01/2023 7:49 AM	CP60LI	1	30/01/2023 11:19 AM	CK38WU	1
19/01/2023 8:51 AM	CI61FI	1	30/01/2023 11:46 AM	XN35OR	1
19/01/2023 8:55 AM	CN70EQ	1	30/01/2023 11:50 AM	XN09UX	1
19/01/2023 9:02 AM	CP60LI	1	30/01/2023 12:01 PM	XO52BT	1
19/01/2023 9:10 AM	XN82TZ	1	31/01/2023 7:34 AM	CP85HJ	1
19/01/2023 10:18 AM	CI61FI	1	31/01/2023 7:53 AM	XO33OJ	1
19/01/2023 10:54 AM	XN82TZ	1	31/01/2023 7:59 AM	XN09UX	1
19/01/2023 1:02 PM	XN82TZ	1	31/01/2023 8:02 AM	XN02EG	1
19/01/2023 2:57 PM	XN82TZ	1	31/01/2023 8:10 AM	881LIQ	1
20/01/2023 7:19 AM	XN82TZ	1	31/01/2023 10:41 AM	XN30AO	1
20/01/2023 7:44 AM	CP83TG	1			
20/01/2023 8:58 AM	XN82TZ	1			
20/01/2023 11:22 AM	CP83TG	1			
20/01/2023 12:43 PM	XN82TZ	1			
20/01/2023 2:08 PM	XN82TZ	1			
23/01/2023 7:30 AM	XO42GF	1			
23/01/2023 7:38 AM	CE34TZ	1			

23/01/2023 7:41 AM	XN50SK	1
23/01/2023 7:43 AM	XO43EW	1
23/01/2023 7:46 AM	CI61FI	1
23/01/2023 10:55 AM	XN50SK	1
23/01/2023 11:12 AM	CP83TG	1
23/01/2023 11:17 AM	XN20DC	1
23/01/2023 11:20 AM	XO43EW	1
23/01/2023 1:15 PM	XO43EW	1
23/01/2023 3:07 PM	XN20DC	1
24/01/2023 7:32 AM	CI61FI	1
24/01/2023 8:14 AM	XO82MQ	1
24/01/2023 9:09 AM	CI61FI	1
24/01/2023 9:41 AM	XO82MQ	1
24/01/2023 9:51 AM	XO43EW	1
24/01/2023 10:32 AM	XN50SK	1
24/01/2023 10:46 AM	CI61FI	1
24/01/2023 11:25 AM	XO43EW	1
24/01/2023 12:46 PM	XN50SK	1
24/01/2023 1:14 PM	XO43EW	1
25/01/2023 12:48 PM	XN50SK	1
25/01/2023 3:16 PM	XO24AE	1
27/01/2023 7:34 AM	CE34TZ	1
27/01/2023 10:14 AM	XN82TZ	1
27/01/2023 11:29 AM	XN45LP	1
27/01/2023 11:31 AM	XN82TZ	1
27/01/2023 12:42 PM	XN82TZ	1
27/01/2023 1:02 PM	XN45LP	1
27/01/2023 1:42 PM	XN82TZ	1
27/01/2023 1:51 PM	XN45LP	1
27/01/2023 2:46 PM	XN82TZ	1
30/01/2023 9:53 AM	XN82TZ	1

30/01/2023 10:31 AM	XO16LW	1			
30/01/2023 11:35 AM	XN50SK	1			
30/01/2023 11:39 AM	XO24AE	1			
30/01/2023 11:51 AM	XO16LW	1			
30/01/2023 12:38 PM	XO43EW	1			
30/01/2023 12:51 PM	CP83TG	1			
30/01/2023 1:51 PM	XN50SK	1			
30/01/2023 2:31 PM	XO43EW	1			
30/01/2023 2:34 PM	CP83TG	1			
31/01/2023 7:44 AM	CP84TG	1			
31/01/2023 9:21 AM	XN73VH	1			
31/01/2023 9:34 AM	XN50SK	1			
31/01/2023 9:36 AM	CP83TG	1			
31/01/2023 10:01 AM	CP84TG	1			
31/01/2023 10:07 AM	XN73VH	1			
31/01/2023 10:44 AM	XN73VH	1			
31/01/2023 11:21 AM	XN82TZ	1			
31/01/2023 11:24 AM	CP83TG	1			
31/01/2023 11:28 AM	XN50SK	1			
31/01/2023 11:50 AM	CP84TG	1			
2/02/2023 7:23 AM	XO00NB	1	1/02/2023 7:46 AM	XN30AO	1
2/02/2023 8:04 AM	XS40EX	1	1/02/2023 7:52 AM	XN09UX	1
2/02/2023 8:10 AM	XS72FM	1	1/02/2023 8:04 AM	881LIQ	1
2/02/2023 9:42 AM	XO00NB	1	1/02/2023 8:11 AM	XO33OJ	1
2/02/2023 10:33 AM	XS40EX	1	1/02/2023 8:15 AM	XN02EG	1
2/02/2023 10:38 AM	XS72FM	1	1/02/2023 9:16 AM	XO52BT	1
2/02/2023 11:40 AM	XO00NB	1	1/02/2023 10:11 AM	XN09UX	1
2/02/2023 1:36 PM	XO00NB	1	1/02/2023 10:22 AM	CK38WU	1
2/02/2023 3:16 PM	XO00NB	1	1/02/2023 10:39 AM	BL23XK	1
3/02/2023 7:37 AM	XO00NB	1	1/02/2023 10:52 AM	XO77FK	1
3/02/2023 9:14 AM	XO00NB	1	1/02/2023 11:07 AM	XN35OR	1

3/02/2023 11:02 AM	XO00NB	1	1/02/2023 11:29 AM	XO67AJ	1
3/02/2023 1:45 PM	XO82MQ	1	1/02/2023 11:41 AM	XO52BT	1
3/02/2023 2:41 PM	XO82MQ	1	1/02/2023 12:33 PM	BL23XK	1
6/02/2023 7:24 AM	XO00NB	1	1/02/2023 12:35 PM	CK38WU	1
6/02/2023 9:52 AM	XO00NB	1	1/02/2023 12:42 PM	XO77FK	1
6/02/2023 10:12 AM	AC71LL	1	2/02/2023 7:28 AM	XO33OJ	1
6/02/2023 10:13 AM	XN66UT	1	2/02/2023 7:34 AM	XN09UX	1
6/02/2023 1:20 PM	AC71LL	1	2/02/2023 8:22 AM	XN02EG	1
6/02/2023 1:22 PM	XN66UT	1	2/02/2023 8:39 AM	XQ680J	1
6/02/2023 2:11 PM	XN50SK	1	2/02/2023 8:42 AM	881LIQ	1
7/02/2023 7:28 AM	AC71LL	1	2/02/2023 9:18 AM	CK38WU	1
7/02/2023 7:31 AM	XN66UT	1	2/02/2023 9:35 AM	XO51BT	1
7/02/2023 7:39 AM	XO00NB	1	2/02/2023 9:43 AM	XO52BT	1
7/02/2023 10:07 AM	XO00NB	1	2/02/2023 9:58 AM	XO77FK	1
7/02/2023 11:58 AM	XO00NB	1	2/02/2023 10:18 AM	XN09UX	1
7/02/2023 1:41 PM	XO00NB	1	2/02/2023 11:14 AM	XN35OR	1
8/02/2023 10:10 AM	XO26GF	1	2/02/2023 11:28 AM	XO67AJ	1
8/02/2023 11:26 AM	XO26GF	1	2/02/2023 11:46 AM	XO51BT	1
8/02/2023 1:19 PM	TSP279	1	2/02/2023 11:57 AM	XO52BT	1
8/02/2023 2:16 PM	TSP279	1	2/02/2023 12:11 PM	XO77FK	1
8/02/2023 3:10 PM	TSP279	1	2/02/2023 12:35 PM	CK38WU	1
9/02/2023 7:53 AM	XO49HG	1	2/02/2023 12:53 PM	XN35OR	1
9/02/2023 1:30 PM	XO57HG	1	2/02/2023 1:03 PM	XO67AJ	1
10/02/2023 7:32 AM	XN92WO	1	2/02/2023 1:16 PM	XO51BT	1
10/02/2023 7:53 AM	XO57HG	1	2/02/2023 1:30 PM	XO77FK	1
10/02/2023 11:47 AM	XN92WO	1	2/02/2023 1:42 PM	XO52BT	1
13/02/2023 10:58 AM	XO00NB	1	2/02/2023 3:00 PM	XN35OR	1
13/02/2023 1:48 PM	XO00NB	1	2/02/2023 3:03 PM	XO52BT	1
13/02/2023 1:52 PM	XS40EX	1	3/02/2023 7:27 AM	XO33OJ	1
13/02/2023 1:54 PM	XO57HG	1	3/02/2023 7:33 AM	XN09UX	1
13/02/2023 3:27 PM	XO00NB	1	3/02/2023 7:41 AM	881LIQ	1

14/02/2023 7:24 AM	XO00NB	1	3/02/2023 7:50 AM	XO14JX	1
14/02/2023 7:33 AM	XO42EW	1	3/02/2023 8:01 AM	XO52BT	1
14/02/2023 9:20 AM	XO00NB	1	3/02/2023 8:29 AM	CK38WU	1
14/02/2023 10:28 AM	XO42EW	1	3/02/2023 8:36 AM	XO06LB	1
14/02/2023 10:57 AM	XO16LW	1	3/02/2023 8:47 AM	BL23XK	1
14/02/2023 11:09 AM	XO00NB	1	3/02/2023 8:59 AM	XN32TQ	1
14/02/2023 11:33 AM	XN73UT	1	3/02/2023 9:02 AM	XO77FK	1
14/02/2023 11:34 AM	XO42EW	1	3/02/2023 9:16 AM	XN35OR	1
14/02/2023 2:22 PM	XO00NB	1	3/02/2023 10:26 AM	XO52BT	1
14/02/2023 2:57 PM	XN73UT	1	3/02/2023 11:07 AM	XO67AJ	1
15/02/2023 7:26 AM	XN50SK	1	3/02/2023 11:16 AM	BL23XK	1
15/02/2023 7:29 AM	XO43EW	1	3/02/2023 11:33 AM	XO77FK	1
15/02/2023 7:37 AM	XO00NB	1	3/02/2023 11:45 AM	XN35OR	1
15/02/2023 8:18 AM	XQ22RL	1	3/02/2023 11:50 AM	CK38WU	1
15/02/2023 9:15 AM	XN50SK	1	3/02/2023 12:18 PM	XO52BT	1
15/02/2023 9:33 AM	XO43EW	1	3/02/2023 3:03 PM	BL23XK	1
15/02/2023 10:27 AM	XN50SK	1	3/02/2023 3:04 PM	XO67AJ	1
15/02/2023 10:31 AM	XO43EW	1	3/02/2023 3:22 PM	CK38WU	1
15/02/2023 11:08 AM	XO82MQ	1	3/02/2023 3:25 PM	XO77FK	1
15/02/2023 11:33 AM	XN50SK	1	4/02/2023 7:48 AM	XO09UX	1
15/02/2023 12:41 PM	XO82MQ	1	4/02/2023 7:53 AM	XN73UT	1
15/02/2023 1:11 PM	XQ22RL	1	4/02/2023 8:12 AM	XN30BP	1
15/02/2023 1:23 PM	XO82MQ	1	4/02/2023 8:30 AM	XN08ZO	1
15/02/2023 1:46 PM	XN73UT	1	4/02/2023 11:13 AM	XO07HY	1
15/02/2023 1:59 PM	XN50SK	1	4/02/2023 11:43 AM	XN73UT	1
15/02/2023 2:05 PM	XO82MQ	1	4/02/2023 12:06 PM	XN30BP	1
15/02/2023 2:46 PM	XO82MQ	1	4/02/2023 12:36 PM	XN08ZO	1
15/02/2023 3:32 PM	XN73UT	1	6/02/2023 7:29 AM	XO52BT	1
16/02/2023 7:26 AM	XO78EV	1	6/02/2023 7:35 AM	XO33OJ	1
16/02/2023 7:32 AM	XO00NB	1	6/02/2023 7:39 AM	XN09UX	1
16/02/2023 7:52 AM	XO90JD	1	6/02/2023 7:53 AM	BL23XK	1

16/02/2023 8:33 AM	XO78EV	1	6/02/2023 7:58 AM	XN30AO	1
16/02/2023 8:48 AM	XO90JD	1	6/02/2023 8:16 AM	881LIQ	1
16/02/2023 10:05 AM	XO78EV	1	6/02/2023 8:22 AM	XO51BT	1
16/02/2023 10:15 AM	XO57HG	1	6/02/2023 8:34 AM	XO67AJ	1
16/02/2023 10:22 AM	XO90JD	1	6/02/2023 8:49 AM	XN35OR	1
16/02/2023 10:51 AM	XO78EV	1	6/02/2023 9:44 AM	XN02EG	1
16/02/2023 11:09 AM	XO90JD	1	6/02/2023 9:53 AM	XO52BT	1
16/02/2023 11:35 AM	XO78EV	1	6/02/2023 10:14 AM	BL23XK	1
16/02/2023 11:55 AM	XO90JD	1	6/02/2023 10:24 AM	XO51BT	1
16/02/2023 12:01 PM	CP60LI	1	6/02/2023 10:37 AM	XO67AJ	1
16/02/2023 12:07 PM	XO78EV	1	6/02/2023 10:57 AM	XN35OR	1
16/02/2023 12:53 PM	XO42EW	1	6/02/2023 11:28 AM	XO52BT	1
16/02/2023 1:23 PM	XO90JD	1	6/02/2023 11:31 AM	XO44HG	1
16/02/2023 1:29 PM	XO78EV	1	6/02/2023 11:44 AM	BL23XK	1
16/02/2023 1:32 PM	XN73UT	1	6/02/2023 11:51 AM	XO67AJ	1
16/02/2023 1:36 PM	CP60LI	1	6/02/2023 12:51 PM	XN35OR	1
16/02/2023 1:47 PM	XO57HG	1	6/02/2023 1:01 PM	XO52BT	1
16/02/2023 2:00 PM	XO42EW	1	7/02/2023 7:35 AM	XN09UX	2
16/02/2023 2:05 PM	XO90JD	1	7/02/2023 7:37 AM	XN02EG	1
16/02/2023 2:07 PM	XO78EV	1	7/02/2023 7:44 AM	XN30AO	1
16/02/2023 2:47 PM	XO24AE	1	7/02/2023 7:49 AM	XO44HG	1
16/02/2023 2:48 PM	XO90JD	1	7/02/2023 7:54 AM	881LIQ	1
16/02/2023 2:51 PM	XO78EV	1	7/02/2023 8:17 AM	XO52BT	1
16/02/2023 3:05 PM	XN73UT	1	7/02/2023 8:35 AM	XN86OK	1
16/02/2023 3:28 PM	XN89VR	1	7/02/2023 8:46 AM	XN35OR	1
17/02/2023 7:21 AM	XO00NB	1	7/02/2023 9:09 AM	XO51CZ	1
17/02/2023 7:33 AM	XO90JD	1	7/02/2023 9:54 AM	XN09UX	1
17/02/2023 7:36 AM	XN73UT	1	7/02/2023 12:51 PM	XO52BT	1
17/02/2023 8:37 AM	XO42EW	1	7/02/2023 1:13 PM	XN86OK	1
17/02/2023 10:37 AM	XO42EW	2	7/02/2023 1:22 PM	XO51BT	1
17/02/2023 10:46 AM	XN73UT	1	8/02/2023 7:29 AM	XN02EG	1

17/02/2023 11:17 AM	XO90JD	1	8/02/2023 7:38 AM	XO33OJ	1
17/02/2023 11:55 AM	XO90JD	1	8/02/2023 7:43 AM	XN09UX	1
17/02/2023 12:11 PM	XN73UT	1	8/02/2023 7:52 AM	XO44HG	1
17/02/2023 1:25 PM	XO90JD	1	8/02/2023 7:54 AM	881LIQ	1
17/02/2023 2:20 PM	XO90JD	1	8/02/2023 7:57 AM	XN30AO	1
20/02/2023 7:20 AM	XO00NB	1	8/02/2023 8:38 AM	XO52BT	1
20/02/2023 7:30 AM	XN73UT	1	8/02/2023 9:02 AM	XO51BT	1
20/02/2023 8:32 AM	XS40EX	1	8/02/2023 9:07 AM	XN86OK	1
20/02/2023 10:06 AM	XO22GF	1	8/02/2023 9:22 AM	XN35OR	1
20/02/2023 10:22 AM	XS40EX	1	8/02/2023 10:28 AM	XO33OJ	1
20/02/2023 11:05 AM	XO22GF	1	8/02/2023 11:08 AM	XN09UX	1
20/02/2023 11:25 AM	CP83TG	1	8/02/2023 11:50 AM	XO44HG	1
20/02/2023 11:27 AM	XS40EX	1	8/02/2023 12:58 PM	XO52BT	1
20/02/2023 11:29 AM	XO42EW	1	8/02/2023 1:30 PM	BL23XK	1
20/02/2023 12:58 PM	XO22GF	1	9/02/2023 7:24 AM	XN02EG	1
20/02/2023 1:54 PM	XO24AE	1	9/02/2023 7:30 AM	XO33OJ	1
21/02/2023 7:16 AM	XO90JD	1	9/02/2023 7:37 AM	881LIQ	1
21/02/2023 7:21 AM	XN50SK	1	9/02/2023 7:43 AM	XQ680J	1
21/02/2023 7:42 AM	XO94MQ	1	9/02/2023 7:44 AM	XN30AO	1
21/02/2023 7:44 AM	XO00NB	1	9/02/2023 7:48 AM	XO44HG	1
21/02/2023 8:08 AM	XO90JD	1	9/02/2023 8:08 AM	XO66KV	1
21/02/2023 8:53 AM	XO90JD	1	9/02/2023 8:11 AM	XO06LB	1
21/02/2023 9:27 AM	XN89VR	1	9/02/2023 9:39 AM	XO51CZ	1
21/02/2023 9:44 AM	XN50SK	1	9/02/2023 10:06 AM	CK38WU	1
21/02/2023 10:27 AM	CP83TG	1	9/02/2023 10:22 AM	XN86OK	1
21/02/2023 10:47 AM	XN66UT	1	9/02/2023 10:53 AM	XO51BT	1
21/02/2023 10:50 AM	XO16LW	1	9/02/2023 1:05 PM	BL23XK	1
21/02/2023 10:51 AM	XO90JD	1	9/02/2023 1:16 PM	XO77FK	1
21/02/2023 11:18 AM	XO94MQ	1	9/02/2023 1:31 PM	XO67AJ	1
21/02/2023 11:19 AM	XN50SK	1	9/02/2023 2:12 PM	XO51CZ	1
21/02/2023 11:27 AM	XO00NB	1	9/02/2023 2:14 PM	XO51BT	1

21/02/2023 11:35 AM	CP83TG	1	10/02/2023 7:34 AM	XO33OJ	1
21/02/2023 12:03 PM	XO42EW	1	10/02/2023 7:37 AM	XO09DS	1
21/02/2023 12:08 PM	XO16LW	1	10/02/2023 7:38 AM	XO09DS	1
21/02/2023 12:09 PM	XN66UT	1	10/02/2023 7:40 AM	XN09UX	1
21/02/2023 12:14 PM	XO42GF	1	10/02/2023 7:41 AM	XO44HG	1
21/02/2023 1:00 PM	XO69JE	1	10/02/2023 7:52 AM	XQ680J	1
21/02/2023 1:12 PM	XO90JD	1	10/02/2023 7:54 AM	881LIQ	1
21/02/2023 1:23 PM	XS40EX	1	10/02/2023 7:58 AM	XN30AO	1
21/02/2023 1:51 PM	XN50SK	1	10/02/2023 8:17 AM	XO52BT	1
21/02/2023 2:06 PM	XO94MQ	1	10/02/2023 10:23 AM	XN09UX	1
21/02/2023 2:14 PM	XO00NB	1	10/02/2023 11:44 AM	BL23XK	1
22/02/2023 8:05 AM	XO94MQ	1	10/02/2023 12:26 PM	XO09DS	1
22/02/2023 8:31 AM	XO42EW	1	10/02/2023 1:01 PM	XQ680J	1
22/02/2023 8:54 AM	XO00NB	1	13/02/2023 7:27 AM	XO52BT	1
22/02/2023 9:46 AM	XO94MQ	1	13/02/2023 7:51 AM	CK38WU	1
22/02/2023 10:33 AM	XO42EW	1	13/02/2023 7:55 AM	881LIQ	1
22/02/2023 11:22 AM	XO00NB	1	13/02/2023 8:02 AM	XO33OJ	1
22/02/2023 11:24 AM	XO94MQ	1	13/02/2023 8:06 AM	XN09UX	1
22/02/2023 12:58 PM	XO94MQ	1	13/02/2023 8:09 AM	CI79PF	1
22/02/2023 1:43 PM	XO00NB	1	13/02/2023 8:18 AM	XN30AO	1
22/02/2023 2:35 PM	XO94MQ	1	13/02/2023 8:23 AM	XO44HG	1
22/02/2023 3:49 PM	XO00NB	1	13/02/2023 8:37 AM	BL23XK	1
23/02/2023 7:44 AM	XO00NB	1	13/02/2023 8:58 AM	XO51CZ	1
23/02/2023 7:50 AM	XO94MQ	1	13/02/2023 9:13 AM	XN86OK	1
23/02/2023 9:37 AM	XO78KV	1	13/02/2023 9:34 AM	XO71FK	1
23/02/2023 10:18 AM	XO09HY	1	13/02/2023 10:05 AM	XO77FK	1
23/02/2023 10:57 AM	XO94MQ	1	13/02/2023 10:10 AM	XO67AJ	1
23/02/2023 11:05 AM	XO00NB	1	13/02/2023 11:37 AM	XN35OR	1
23/02/2023 11:53 AM	XO78KV	1	13/02/2023 11:43 AM	XO33OJ	1
23/02/2023 1:01 PM	XO09HY	1	13/02/2023 12:12 PM	XO51BT	1
23/02/2023 1:26 PM	XO00NB	1	14/02/2023 8:02 AM	881LIQ	1

24/02/2023 8:28 AM	XO78KV	1	15/02/2023 7:41 AM	881LIQ	1
24/02/2023 10:16 AM	XO94MQ	1	15/02/2023 7:43 AM	XN09UX	1
24/02/2023 10:27 AM	XO43EW	1	15/02/2023 7:51 AM	XO33OJ	1
24/02/2023 10:32 AM	CP84TG	1	15/02/2023 8:01 AM	CI79PF	1
24/02/2023 10:34 AM	XO22GF	1	15/02/2023 8:02 AM	XN30AO	1
24/02/2023 10:37 AM	XO47CZ	1	15/02/2023 8:10 AM	XQ95KJ	1
24/02/2023 11:18 AM	XO43EW	1	15/02/2023 8:21 AM	XO06LB	1
24/02/2023 11:20 AM	XO22GF	1	15/02/2023 8:33 AM	BL23XK	1
24/02/2023 11:22 AM	CP84TG	1	15/02/2023 8:50 AM	XO51BT	1
24/02/2023 11:24 AM	XO47CZ	1	15/02/2023 10:28 AM	XN09UX	1
24/02/2023 1:07 PM	XO22GF	1	16/02/2023 7:29 AM	XO33OJ	1
24/02/2023 1:09 PM	XO47CZ	1	16/02/2023 7:34 AM	XN09UX	1
24/02/2023 1:11 PM	XO43EW	1	16/02/2023 7:39 AM	XQ95KJ	1
27/02/2023 7:28 AM	XN50SK	1	16/02/2023 7:45 AM	881LIQ	1
27/02/2023 7:29 AM	XO43EW	1	16/02/2023 7:56 AM	XQ680J	1
27/02/2023 7:32 AM	XO45HG	1	16/02/2023 7:57 AM	XN02EG	1
27/02/2023 7:33 AM	CP60LI	1	16/02/2023 8:27 AM	BL23XK	1
27/02/2023 7:36 AM	XO78KV	1	16/02/2023 8:50 AM	XO51CZ	1
27/02/2023 7:39 AM	XO35NB	1	16/02/2023 9:09 AM	XN86OK	1
27/02/2023 7:53 AM	XO00NB	1	16/02/2023 9:25 AM	XN35OR	1
27/02/2023 8:12 AM	XO43EW	1	16/02/2023 9:54 AM	XO33OJ	1
27/02/2023 8:53 AM	XO43EW	1	16/02/2023 10:36 AM	XN09UX	1
27/02/2023 8:55 AM	XO35NB	1	16/02/2023 11:34 AM	XO67AJ	1
27/02/2023 9:02 AM	XO22GF	1	17/02/2023 7:46 AM	CP85HJ	1
27/02/2023 9:04 AM	CP60LI	1	17/02/2023 7:51 AM	XN09UX	1
27/02/2023 9:07 AM	XO78KV	1	17/02/2023 7:57 AM	XO33OJ	1
27/02/2023 9:18 AM	XN50SK	1	17/02/2023 8:03 AM	XQ95KJ	1
27/02/2023 9:24 AM	XO45HG	1	17/02/2023 8:08 AM	XQ680J	1
27/02/2023 9:38 AM	CN71ER	1	17/02/2023 8:12 AM	881LIQ	1
27/02/2023 9:55 AM	XO47CZ	1	17/02/2023 9:03 AM	XO51CZ	1
27/02/2023 10:08 AM	XN50SK	1	17/02/2023 9:24 AM	BL23XK	1

27/02/2023 10:13 AM	XO22GF	1	17/02/2023 9:25 AM	XN49SM	1
27/02/2023 10:25 AM	XO43EW	1	17/02/2023 9:35 AM	XO71FK	1
27/02/2023 10:29 AM	CP60LI	1	17/02/2023 9:51 AM	XO77FK	1
27/02/2023 10:36 AM	XO35NB	1	17/02/2023 10:11 AM	XN35OR	1
27/02/2023 10:39 AM	XO78KV	1	17/02/2023 10:22 AM	XN09UX	1
27/02/2023 10:58 AM	XO45HG	1	17/02/2023 10:52 AM	XO33OJ	1
27/02/2023 10:59 AM	XN50SK	1	17/02/2023 11:58 AM	XO67AJ	1
27/02/2023 11:00 AM	XO47CZ	1	20/02/2023 7:37 AM	XO33OJ	1
27/02/2023 11:01 AM	CN71ER	1	20/02/2023 7:43 AM	XN09UX	1
27/02/2023 11:02 AM	XO22GF	1	20/02/2023 7:47 AM	XQ680J	1
27/02/2023 11:03 AM	CP60LI	1	20/02/2023 7:52 AM	881LIQ	1
27/02/2023 11:09 AM	XO43EW	1	20/02/2023 7:59 AM	XN94WC	1
27/02/2023 11:13 AM	XO35NB	1	20/02/2023 8:04 AM	XQ95KJ	1
27/02/2023 11:17 AM	XO78KV	1	20/02/2023 8:08 AM	CI79PF	1
27/02/2023 11:40 AM	XO47CZ	1	20/02/2023 8:33 AM	BL23XK	1
27/02/2023 11:41 AM	XN50SK	1	20/02/2023 8:50 AM	XO52BT	1
27/02/2023 11:43 AM	XO45HG	1	20/02/2023 9:09 AM	XO51CZ	1
27/02/2023 11:44 AM	CP60LI	1	20/02/2023 9:23 AM	XO71FK	1
27/02/2023 11:49 AM	XO43EW	1	20/02/2023 11:31 AM	XO33OJ	1
27/02/2023 11:51 AM	XO22GF	1	21/02/2023 7:26 AM	XO33OJ	1
27/02/2023 11:53 AM	XO35NB	1	21/02/2023 7:35 AM	XQ680J	1
27/02/2023 11:57 AM	XO78KV	1	21/02/2023 7:38 AM	881LIQ	1
27/02/2023 12:58 PM	XN50SK	1	21/02/2023 7:46 AM	XQ95KJ	1
27/02/2023 1:04 PM	CP83TG	1	21/02/2023 7:49 AM	XN94WC	1
27/02/2023 1:05 PM	XO35NB	1	21/02/2023 8:07 AM	XO31NB	1
27/02/2023 1:08 PM	XO78KV	1	21/02/2023 8:20 AM	XO66KV	1
27/02/2023 1:43 PM	XN50SK	1	21/02/2023 9:35 AM	BL23XK	1
27/02/2023 1:49 PM	XO35NB	1	21/02/2023 10:00 AM	XO52BT	1
27/02/2023 1:52 PM	XO78KV	1	21/02/2023 10:05 AM	XO51BT	1
27/02/2023 1:55 PM	CP83TG	1	21/02/2023 11:14 AM	XO31NB	1
27/02/2023 2:32 PM	XO35NB	1	21/02/2023 11:49 AM	XO52BT	1

27/02/2023 2:39 PM	CP83TG	1	21/02/2023 12:06 PM	XO66KV	1
27/02/2023 2:43 PM	XO78KV	1	21/02/2023 12:22 PM	BL23XK	1
27/02/2023 2:45 PM	CP60LI	1	21/02/2023 12:37 PM	XO67AJ	1
27/02/2023 2:56 PM	XO43EW	1	21/02/2023 12:58 PM	XO51BT	1
28/02/2023 7:24 AM	XO43EW	1	21/02/2023 1:07 PM	XO52BT	1
28/02/2023 7:26 AM	XO45HG	1	21/02/2023 2:05 PM	BL23XK	1
28/02/2023 7:27 AM	CP60LI	1	21/02/2023 2:12 PM	XO67AJ	1
28/02/2023 7:30 AM	XN50SK	1	21/02/2023 2:21 PM	XO51BT	1
28/02/2023 7:57 AM	XO45HG	1	21/02/2023 2:25 PM	XO52BT	1
28/02/2023 7:59 AM	CP60LI	1	21/02/2023 3:50 PM	BL23XK	1
28/02/2023 8:36 AM	CP60LI	1	22/02/2023 8:44 AM	XN94WC	1
28/02/2023 8:42 AM	XO45HG	1	22/02/2023 8:57 AM	XO33OJ	1
28/02/2023 9:18 AM	XO42EW	1	22/02/2023 9:02 AM	XN09UX	1
28/02/2023 10:18 AM	XO23GF	1	22/02/2023 9:06 AM	XQ95KJ	1
28/02/2023 10:58 AM	XO42EW	1	22/02/2023 9:22 AM	CI79PF	1
28/02/2023 11:57 AM	CN71ER	1	22/02/2023 9:30 AM	881LIQ	1
28/02/2023 11:58 AM	XQ22RL	1	22/02/2023 9:36 AM	XQ680J	1
28/02/2023 1:20 PM	XO23GF	1	22/02/2023 9:41 AM	XN30AO	1
28/02/2023 1:23 PM	XO00NB	1	22/02/2023 11:23 AM	BL23XK	1
28/02/2023 1:35 PM	XO42EW	1	22/02/2023 11:27 AM	XO52BT	1
28/02/2023 1:52 PM	CN71ER	1	22/02/2023 12:51 PM	BL23XK	1
28/02/2023 2:27 PM	XO23GF	1	23/02/2023 7:29 AM	CI79PF	1
28/02/2023 3:04 PM	XO45HG	1	23/02/2023 7:37 AM	XO33OJ	1
28/02/2023 3:06 PM	CP60LI	1	23/02/2023 7:41 AM	XO06LB	1
28/02/2023 3:12 PM	XO00NB	1	23/02/2023 7:46 AM	XN09UX	1
1/03/2023 7:33 AM	XO23GF	1	23/02/2023 7:51 AM	XQ95KJ	1
1/03/2023 7:43 AM	XO00NB	1	23/02/2023 8:06 AM	XQ680J	1
1/03/2023 9:26 AM	XO23GF	1	23/02/2023 8:49 AM	XO51BT	1
1/03/2023 9:43 AM	XO00NB	1	23/02/2023 8:51 AM	881LIQ	1
1/03/2023 11:20 AM	XO47CZ	1	23/02/2023 10:42 AM	XO33OJ	1
1/03/2023 11:29 AM	XO00NB	1	23/02/2023 12:03 PM	XN09UX	1

1/03/2023 11:50 AM	XO23GF	1	24/02/2023 7:16 AM	BY13LU	1
1/03/2023 11:55 AM	CN71ER	1	27/02/2023 7:46 AM	XO33OJ	1
1/03/2023 12:56 PM	XO23GF	1	27/02/2023 7:51 AM	XO44HG	1
1/03/2023 1:24 PM	XO57HG	1	27/02/2023 7:58 AM	CI79PF	1
1/03/2023 1:35 PM	CN71ER	1	27/02/2023 8:26 AM	XQ680J	1
1/03/2023 2:06 PM	XO26GF	1	27/02/2023 6:13 PM	XO33OJ	1
1/03/2023 2:14 PM	CN71ER	1	27/02/2023 6:17 PM	XO44HG	1
1/03/2023 3:07 PM	CP60LI	1	27/02/2023 7:00 PM	XO52BT	1
1/03/2023 3:09 PM	XO45HG	1	27/02/2023 8:28 PM	XO33OJ	1
2/03/2023 7:39 AM	XN50SK	1	27/02/2023 8:53 PM	XN35OR	1
2/03/2023 7:41 AM	XO47CZ	1	27/02/2023 11:02 PM	XO51CZ	1
2/03/2023 7:43 AM	XO22GF	1	28/02/2023 1:31 AM	XO52BT	1
2/03/2023 7:45 AM	CP83TG	1	28/02/2023 1:55 AM	XN35OR	1
2/03/2023 7:47 AM	CP60LI	1	28/02/2023 2:25 AM	XO51CZ	1
2/03/2023 8:08 AM	XO45HG	1	28/02/2023 2:33 AM	BL23XK	1
2/03/2023 8:10 AM	XN50SK	1	28/02/2023 4:17 AM	BL23XK	1
2/03/2023 8:12 AM	XO47CZ	1	28/02/2023 7:38 AM	CI79PF	1
2/03/2023 8:14 AM	XO22GF	1	28/02/2023 7:44 AM	881LIQ	1
2/03/2023 8:17 AM	CP83TG	1	28/02/2023 12:20 PM	881LIQ	1
2/03/2023 8:20 AM	CP60LI	1	28/02/2023 9:48 PM	XO52BT	1
2/03/2023 8:40 AM	XO45HG	1	28/02/2023 10:06 PM	XO51CZ	1
2/03/2023 8:41 AM	XN50SK	1	28/02/2023 10:28 PM	XN35OR	1
2/03/2023 8:43 AM	XO47CZ	1	28/02/2023 10:59 PM	CP23QH	1
2/03/2023 8:47 AM	CP83TG	1	28/02/2023 11:02 PM	XO77FK	1
2/03/2023 8:49 AM	CP60LI	1	28/02/2023 11:51 PM	BL23XK	1
2/03/2023 9:12 AM	XO45HG	1	1/03/2023 12:04 AM	XO67AJ	1
2/03/2023 9:24 AM	XO22GF	1	1/03/2023 12:20 AM	XO52BT	1
2/03/2023 9:28 AM	XO00NB	1	1/03/2023 12:45 AM	XO51CZ	1
2/03/2023 9:42 AM	CP60LI	1	1/03/2023 1:03 AM	XN35OR	1
2/03/2023 9:51 AM	CP83TG	1	1/03/2023 1:37 AM	BL23XK	1
2/03/2023 9:58 AM	XO45HG	1	1/03/2023 2:17 AM	XO67AJ	1

2/03/2023 9:59 AM	XN50SK	1	1/03/2023 2:31 AM	XO52BT	1
2/03/2023 10:01 AM	XO22GF	1	1/03/2023 8:06 AM	XO52BT	1
2/03/2023 10:20 AM	CP83TG	1	1/03/2023 8:14 AM	BI88CH	1
2/03/2023 10:24 AM	CP60LI	1	1/03/2023 8:17 AM	CI79PF	1
2/03/2023 10:29 AM	XO45HG	1	1/03/2023 8:41 AM	XO51CZ	1
2/03/2023 10:31 AM	XO47CZ	1	1/03/2023 10:22 AM	XO52BT	1
2/03/2023 10:36 AM	XN50SK	1	1/03/2023 10:23 AM	BI88CH	1
2/03/2023 10:37 AM	XO22GF	1	1/03/2023 10:59 AM	XO51CZ	1
2/03/2023 10:47 AM	XN73UT	1	3/03/2023 7:53 AM	XQ680J	1
2/03/2023 10:50 AM	XO07HY	1	3/03/2023 8:02 AM	XO33OJ	1
2/03/2023 10:52 AM	CP83TG	1	3/03/2023 8:09 AM	881LIQ	1
2/03/2023 10:54 AM	CP60LI	1	3/03/2023 8:39 AM	XO51BT	1
2/03/2023 11:03 AM	XO45HG	1	3/03/2023 11:52 AM	XO33OJ	1
2/03/2023 11:05 AM	XO47CZ	1	3/03/2023 12:22 PM	XQ680J	1
2/03/2023 11:14 AM	XN50SK	1	3/03/2023 12:51 PM	881LIQ	1
2/03/2023 11:15 AM	XO22GF	1	6/03/2023 8:06 AM	XO33OJ	1
2/03/2023 11:20 AM	CP83TG	1	6/03/2023 8:14 AM	XN09UX	1
2/03/2023 11:22 AM	CP60LI	1	6/03/2023 8:16 AM	CI79PF	1
2/03/2023 11:36 AM	XO45HG	1	6/03/2023 8:28 AM	881LIQ	1
2/03/2023 11:40 AM	XO47CZ	1	6/03/2023 11:01 AM	XO33OJ	1
2/03/2023 11:47 AM	CP83TG	1	6/03/2023 11:40 AM	XN09UX	1
2/03/2023 11:54 AM	CP60LI	1	7/03/2023 7:42 AM	XN94WC	1
2/03/2023 11:57 AM	XO00NB	1	7/03/2023 9:31 AM	881LIQ	1
2/03/2023 12:00 PM	XN73UT	1	7/03/2023 9:42 AM	XN15JY	1
2/03/2023 12:01 PM	XO07HY	1	7/03/2023 9:48 AM	XO51CZ	1
2/03/2023 12:48 PM	XO45HG	1	7/03/2023 9:52 AM	AM17XY	1
2/03/2023 1:05 PM	CP60LI	1	7/03/2023 10:07 AM	XN35OR	1
2/03/2023 1:06 PM	XO26GF	1	7/03/2023 10:36 AM	XN15GA	1
2/03/2023 1:46 PM	XN73UT	1	7/03/2023 10:40 AM	XN02EG	1
2/03/2023 1:48 PM	XO07HY	1	7/03/2023 10:47 AM	XO52BT	1
3/03/2023 7:22 AM	XO42EW	1	7/03/2023 10:55 AM	CE33BI	1

3/03/2023 7:46 AM	XO00NB	1	7/03/2023 11:05 AM	XN06LH	1
3/03/2023 9:15 AM	XO35NB	1	7/03/2023 11:19 AM	XO33OJ	1
3/03/2023 10:09 AM	XO35NB	1	7/03/2023 11:28 AM	XN09UX	1
3/03/2023 1:06 PM	XO26GF	1	7/03/2023 1:51 PM	XO33OJ	1
3/03/2023 1:11 PM	XS40EX	1	8/03/2023 7:39 AM	XQ95KJ	1
3/03/2023 1:28 PM	XO49HG	1	8/03/2023 7:55 AM	XN09UX	1
6/03/2023 7:25 AM	XN92WO	1	8/03/2023 7:58 AM	XO33OJ	1
6/03/2023 7:59 AM	XO49HG	1	8/03/2023 8:00 AM	XN94WC	1
6/03/2023 9:12 AM	XO49HG	1	8/03/2023 8:04 AM	CI79PF	1
6/03/2023 10:36 AM	XO42EW	1	8/03/2023 8:28 AM	XO51CZ	1
6/03/2023 12:42 PM	XO23GF	1	8/03/2023 8:43 AM	XO52BT	1
6/03/2023 12:44 PM	XO07HY	1	8/03/2023 8:57 AM	BI88CH	1
6/03/2023 1:22 PM	XO42EW	1	8/03/2023 9:02 AM	XN06LH	1
6/03/2023 1:24 PM	XO26GF	1	8/03/2023 9:07 AM	CE33BI	1
6/03/2023 2:00 PM	CP83TG	1	8/03/2023 9:24 AM	XN35OR	1
6/03/2023 2:18 PM	XO42EW	1	8/03/2023 10:36 AM	XN09UX	1
7/03/2023 7:18 AM	CP83TG	1	8/03/2023 10:53 AM	BL23XK	1
7/03/2023 8:40 AM	CP84TG	1	8/03/2023 10:55 AM	XO67AJ	1
7/03/2023 8:54 AM	CP60LI	1	8/03/2023 11:32 AM	XO52BT	1
7/03/2023 9:57 AM	XO07HY	1	8/03/2023 11:35 AM	BI88CH	1
7/03/2023 10:15 AM	XO42EW	1	8/03/2023 12:21 PM	XN35OR	1
7/03/2023 10:24 AM	CP83TG	1	8/03/2023 1:12 PM	BL23XK	1
7/03/2023 10:33 AM	XN73UT	1	8/03/2023 2:00 PM	XO52BT	1
7/03/2023 10:57 AM	XN30BP	1	8/03/2023 3:50 PM	XO67AJ	1
7/03/2023 11:17 AM	XO47CZ	1	8/03/2023 3:54 PM	XO77FK	1
7/03/2023 11:20 AM	XN08ZO	1	8/03/2023 4:28 PM	XO51CZ	1
7/03/2023 11:23 AM	XO23GF	1	9/03/2023 7:46 AM	XO67AJ	1
7/03/2023 11:24 AM	XO42EW	1	9/03/2023 7:47 AM	XN09UX	1
7/03/2023 11:31 AM	CP83TG	1	9/03/2023 7:51 AM	XO33OJ	1
7/03/2023 11:36 AM	XO22GF	1	9/03/2023 8:06 AM	CP23QH	1
7/03/2023 12:47 PM	XO49HG	1	9/03/2023 8:08 AM	XN94WC	1

7/03/2023 12:55 PM	XN73UT	1	9/03/2023 8:13 AM	XQ95KJ	1
7/03/2023 1:19 PM	XO47CZ	1	9/03/2023 8:16 AM	CI79PF	1
7/03/2023 1:24 PM	CP83TG	1	9/03/2023 9:49 AM	XO52BT	1
7/03/2023 1:30 PM	XO42EW	1	9/03/2023 10:12 AM	XN09UX	1
7/03/2023 1:31 PM	XO22GF	1	9/03/2023 10:30 AM	XO51CZ	1
7/03/2023 1:32 PM	XN30BP	1	9/03/2023 10:47 AM	BI88CH	1
7/03/2023 1:33 PM	XN08ZO	1	9/03/2023 11:04 AM	XN08ZO	1
7/03/2023 1:35 PM	XO23GF	1	9/03/2023 11:30 AM	XO77FK	1
7/03/2023 1:37 PM	XO07HY	1	9/03/2023 11:43 AM	XN35OR	1
7/03/2023 2:23 PM	XN73UT	1	9/03/2023 12:04 PM	BL23XK	1
7/03/2023 2:24 PM	CP83TG	1	9/03/2023 12:20 PM	XO67AJ	1
7/03/2023 2:40 PM	XO07HY	1	9/03/2023 12:43 PM	XO52BT	1
7/03/2023 3:06 PM	XN30BP	1	9/03/2023 1:11 PM	XO51CZ	1
7/03/2023 3:14 PM	XO49HG	1	9/03/2023 1:27 PM	BI88CH	1
8/03/2023 7:20 AM	CP83TG	1	9/03/2023 2:01 PM	CP23QH	1
8/03/2023 7:23 AM	CN71ER	1	9/03/2023 2:03 PM	XN08ZO	1
8/03/2023 7:28 AM	XN50SK	1	9/03/2023 2:18 PM	XO77FK	1
8/03/2023 7:32 AM	CP84TG	1	9/03/2023 2:38 PM	XN35OR	1
8/03/2023 8:46 AM	CP84TG	1	9/03/2023 2:54 PM	BL23XK	1
8/03/2023 8:52 AM	CP83TG	1	9/03/2023 3:03 PM	XO67AJ	1
8/03/2023 9:40 AM	XN50SK	1	9/03/2023 3:15 PM	XO52BT	1
8/03/2023 10:01 AM	XN08ZO	1	10/03/2023 7:36 AM	XO52BT	1
8/03/2023 10:03 AM	XO07HY	1	10/03/2023 7:39 AM	XO33OJ	1
8/03/2023 10:09 AM	XO23GF	1	10/03/2023 7:49 AM	XN94WC	1
8/03/2023 10:21 AM	CP83TG	1	10/03/2023 8:32 AM	BL23XK	1
8/03/2023 10:24 AM	CP84TG	1	10/03/2023 8:45 AM	XN35OR	1
8/03/2023 10:57 AM	XN50SK	1	10/03/2023 9:15 AM	XO51CZ	1
8/03/2023 11:22 AM	CP83TG	1	10/03/2023 9:33 AM	XN08ZO	1
8/03/2023 11:31 AM	XO22GF	1	10/03/2023 9:46 AM	BI88CH	1
8/03/2023 11:38 AM	XO07HY	1	10/03/2023 10:04 AM	XO67AJ	1
8/03/2023 11:43 AM	CP84TG	1	10/03/2023 10:36 AM	XO33OJ	1

8/03/2023 11:44 AM	XO23GF	1	10/03/2023 10:48 AM	CP23QH	1
8/03/2023 12:02 PM	XN08ZO	1	10/03/2023 11:40 AM	BL23XK	1
8/03/2023 12:46 PM	XO07HY	1	10/03/2023 11:43 AM	XN35OR	1
8/03/2023 12:54 PM	XO23GF	1	10/03/2023 11:54 AM	XO51CZ	1
8/03/2023 1:17 PM	XN08ZO	1	10/03/2023 12:12 PM	XN08ZO	1
8/03/2023 1:23 PM	XS40EX	1	10/03/2023 12:24 PM	BI88CH	1
8/03/2023 2:16 PM	XO07HY	1	13/03/2023 7:54 AM	XO33OJ	1
8/03/2023 2:20 PM	XO23GF	1	13/03/2023 7:58 AM	XN09UX	1
8/03/2023 2:24 PM	XN30BP	1	13/03/2023 8:04 AM	XQ680J	1
8/03/2023 2:27 PM	CP83TG	1	13/03/2023 8:09 AM	XQ95KJ	1
8/03/2023 2:30 PM	XN08ZO	1	13/03/2023 8:13 AM	CI79PF	1
8/03/2023 2:46 PM	XO47CZ	1	13/03/2023 8:39 AM	XO52BT	1
8/03/2023 2:53 PM	XO43EW	1	13/03/2023 8:54 AM	BL23XK	1
8/03/2023 3:14 PM	XO07HY	1	13/03/2023 9:13 AM	XN35OR	1
8/03/2023 3:23 PM	XO23GF	1	13/03/2023 9:42 AM	XO51CZ	1
8/03/2023 3:25 PM	XN30BP	1	13/03/2023 9:58 AM	BI88CH	1
8/03/2023 3:27 PM	XN73UT	1	13/03/2023 10:19 AM	CP23QH	1
8/03/2023 3:31 PM	XN08ZO	1	13/03/2023 10:28 AM	XN09UX	1
9/03/2023 7:14 AM	CP83TG	1	13/03/2023 11:52 AM	XO52BT	1
9/03/2023 7:22 AM	CN71ER	1	13/03/2023 12:44 PM	BL23XK	1
9/03/2023 7:27 AM	XO23GF	1	13/03/2023 1:09 PM	XN35OR	1
9/03/2023 7:29 AM	XO69JE	1	13/03/2023 1:26 PM	XO67AJ	1
9/03/2023 7:31 AM	XO07HY	1	14/03/2023 7:49 AM	XO33OJ	1
9/03/2023 7:36 AM	XN30BP	1	14/03/2023 7:56 AM	XN09UX	1
9/03/2023 7:38 AM	CP84TG	1	14/03/2023 8:00 AM	XQ95KJ	1
9/03/2023 7:54 AM	XO16LW	1	14/03/2023 8:29 AM	XO09DS	1
9/03/2023 8:30 AM	XO23GF	1	14/03/2023 8:34 AM	XN02EG	1
9/03/2023 8:39 AM	XO69JE	1	14/03/2023 8:38 AM	XO52BT	1
9/03/2023 8:42 AM	XO22GF	1	14/03/2023 8:54 AM	881LIQ	1
9/03/2023 8:59 AM	CP84TG	1	14/03/2023 9:00 AM	XO51CZ	1
9/03/2023 9:02 AM	XO07HY	1	14/03/2023 9:16 AM	BI88CH	1

9/03/2023 9:03 AM	XN30BP	1	14/03/2023 9:37 AM	XN35OR	1
9/03/2023 9:28 AM	XO16LW	1	14/03/2023 9:58 AM	XO51BT	1
9/03/2023 9:34 AM	XO23GF	1	14/03/2023 11:51 AM	BL23XK	1
9/03/2023 10:04 AM	XO07HY	1	14/03/2023 12:36 PM	XO51CZ	1
9/03/2023 10:07 AM	XO69JE	1	14/03/2023 12:37 PM	XO52BT	1
9/03/2023 10:11 AM	XN30BP	1	14/03/2023 12:42 PM	XO77FK	1
9/03/2023 10:21 AM	XO23GF	1	14/03/2023 12:52 PM	BI88CH	1
9/03/2023 10:42 AM	XO42EW	1	15/03/2023 7:47 AM	XO33OJ	1
9/03/2023 10:46 AM	XO23GF	1	15/03/2023 7:54 AM	XN09UX	1
9/03/2023 11:08 AM	XO16LW	1	15/03/2023 8:00 AM	XN94WC	1
9/03/2023 11:11 AM	XO22GF	1	15/03/2023 8:08 AM	881LIQ	1
9/03/2023 11:37 AM	XO07HY	1	15/03/2023 8:14 AM	XQ95KJ	1
9/03/2023 11:50 AM	XO69JE	1	15/03/2023 8:19 AM	XN02EG	1
9/03/2023 11:59 AM	XN30BP	1	15/03/2023 8:42 AM	XO52BT	1
9/03/2023 12:01 PM	CP84TG	1	15/03/2023 10:13 AM	XO51CZ	1
9/03/2023 12:38 PM	XO23GF	1	15/03/2023 10:24 AM	BI88CH	1
9/03/2023 12:40 PM	XO07HY	1	15/03/2023 10:44 AM	XN35OR	1
9/03/2023 12:47 PM	XS40EX	1	15/03/2023 10:59 AM	XO77FK	1
9/03/2023 12:48 PM	XO69JE	1	15/03/2023 11:11 AM	XN94WC	1
9/03/2023 12:52 PM	XO26GF	1	15/03/2023 11:15 AM	XQ95KJ	1
9/03/2023 1:10 PM	CK61GD	1	15/03/2023 11:41 AM	XO52BT	1
9/03/2023 1:33 PM	XO42EW	1	15/03/2023 1:45 PM	XO67AJ	1
9/03/2023 1:46 PM	CP83TG	1	15/03/2023 2:24 PM	BL23XK	1
9/03/2023 1:49 PM	CN71ER	1	15/03/2023 4:21 PM	XO77FK	1
9/03/2023 1:58 PM	XO23GF	1	16/03/2023 7:28 AM	XO33OJ	1
9/03/2023 2:04 PM	XO07HY	1	16/03/2023 7:33 AM	XO44HG	1
9/03/2023 2:14 PM	XO69JE	1	16/03/2023 7:58 AM	XO52BT	1
9/03/2023 2:25 PM	XN89VR	1	16/03/2023 8:04 AM	XQ95KJ	1
9/03/2023 2:27 PM	XS40EX	1	16/03/2023 8:14 AM	BI88CH	1
9/03/2023 2:55 PM	XO23GF	1	16/03/2023 8:37 AM	XO51BT	1
9/03/2023 2:57 PM	XO07HY	1	16/03/2023 8:53 AM	XN35OR	1

9/03/2023 3:11 PM	XO69JE	1	16/03/2023 9:11 AM	XO51CZ	1
9/03/2023 3:23 PM	XN89VR	1	16/03/2023 10:03 AM	XN86OK	1
9/03/2023 4:07 PM	XO23GF	1	16/03/2023 10:36 AM	CP23QH	1
9/03/2023 4:09 PM	XO07HY	1	16/03/2023 11:13 AM	XO52BT	1
9/03/2023 4:14 PM	XO69JE	1	16/03/2023 11:25 AM	BL23XK	1
10/03/2023 7:15 AM	XO26GF	1	16/03/2023 11:33 AM	BI88CH	1
10/03/2023 7:18 AM	XS40EX	1	16/03/2023 12:32 PM	XN35OR	1
10/03/2023 7:20 AM	XO42EW	1	16/03/2023 1:02 PM	XO51BT	1
10/03/2023 7:47 AM	CP84TG	1	16/03/2023 2:06 PM	XN86OK	1
10/03/2023 8:10 AM	XO16LW	1	16/03/2023 2:07 PM	XO77FK	1
10/03/2023 9:57 AM	XO26GF	1	16/03/2023 2:10 PM	CP23QH	1
10/03/2023 10:15 AM	XO42EW	1	16/03/2023 2:31 PM	BL23XK	1
10/03/2023 10:20 AM	CP84TG	1	16/03/2023 2:58 PM	XN35OR	1
10/03/2023 10:27 AM	XS40EX	1	16/03/2023 3:24 PM	XO51CZ	1
10/03/2023 10:37 AM	XO16LW	1	17/03/2023 7:17 AM	CP85HJ	1
10/03/2023 11:45 AM	CP84TG	1	17/03/2023 7:32 AM	XO33OJ	1
10/03/2023 11:48 AM	XS40EX	1	17/03/2023 7:37 AM	XN09UX	1
10/03/2023 11:56 AM	XO16LW	1	17/03/2023 7:56 AM	881LIQ	1
10/03/2023 1:41 PM	CP84TG	1	17/03/2023 8:01 AM	XO52BT	1
10/03/2023 1:48 PM	XO24AE	1	17/03/2023 8:26 AM	XN35OR	1
10/03/2023 2:08 PM	CP83TG	1	17/03/2023 8:57 AM	XO51CZ	1
10/03/2023 2:18 PM	XO42EW	1	17/03/2023 9:40 AM	BI88CH	1
13/03/2023 7:26 AM	XO42EW	1	17/03/2023 11:25 AM	BL23XK	1
13/03/2023 7:32 AM	CP84TG	1	17/03/2023 11:56 AM	CP23QH	1
13/03/2023 7:52 AM	XN50SK	1	17/03/2023 12:30 PM	XO52BT	1
13/03/2023 8:34 AM	XO16LW	1	20/03/2023 7:32 AM	XO33OJ	1
13/03/2023 8:57 AM	CP84TG	1	20/03/2023 7:38 AM	XN09UX	1
13/03/2023 9:40 AM	XO00NB	1	20/03/2023 7:44 AM	XN30AO	1
13/03/2023 10:23 AM	XO16LW	1	20/03/2023 7:50 AM	XQ680J	1
13/03/2023 10:27 AM	CP84TG	1	20/03/2023 7:52 AM	XQ95KJ	1
13/03/2023 10:54 AM	XO57HG	1	20/03/2023 8:02 AM	XN94WC	1

13/03/2023 11:28 AM	XO00NB	1	20/03/2023 8:24 AM	XN02EG	1
13/03/2023 11:33 AM	CP84TG	1	20/03/2023 8:57 AM	XO51CZ	1
13/03/2023 12:43 PM	XO23GF	1	20/03/2023 9:12 AM	XN35OR	1
13/03/2023 12:45 PM	XO07HY	1	20/03/2023 12:11 PM	XO33OJ	1
13/03/2023 1:08 PM	XN08ZO	1	20/03/2023 12:25 PM	XO51BT	1
13/03/2023 1:20 PM	XO00NB	1	21/03/2023 7:31 AM	XO33OJ	1
13/03/2023 1:35 PM	CP84TG	1	21/03/2023 7:37 AM	XN09UX	1
13/03/2023 2:02 PM	XN73UT	1	21/03/2023 7:39 AM	XO44HG	1
13/03/2023 2:04 PM	XO23GF	1	21/03/2023 7:52 AM	XN94WC	1
13/03/2023 2:06 PM	XO07HY	1	21/03/2023 7:57 AM	XN30AO	1
13/03/2023 2:12 PM	XN08ZO	1	21/03/2023 9:48 AM	XN09UX	1
13/03/2023 2:28 PM	XO42EW	1	22/03/2023 7:45 AM	XO33OJ	1
13/03/2023 3:06 PM	XO23GF	1	22/03/2023 7:52 AM	XN09UX	1
13/03/2023 3:09 PM	XN73UT	1	22/03/2023 7:55 AM	XO44HG	1
13/03/2023 3:17 PM	XO07HY	1	22/03/2023 8:07 AM	881LIQ	1
13/03/2023 3:29 PM	XO00NB	1	22/03/2023 8:08 AM	XN94WC	1
13/03/2023 3:42 PM	XN08ZO	1	22/03/2023 9:15 AM	XN09UX	1
13/03/2023 3:47 PM	XN82TZ	1	22/03/2023 10:03 AM	CP23QH	1
14/03/2023 7:18 AM	XO43EW	1	22/03/2023 10:17 AM	BI88CH	1
14/03/2023 7:35 AM	XO00NB	1	22/03/2023 11:32 AM	XN22OO	1
14/03/2023 8:04 AM	XO07HY	1	22/03/2023 12:02 PM	XO51BT	1
14/03/2023 8:11 AM	XO23GF	1	22/03/2023 12:07 PM	XN35OR	1
14/03/2023 8:53 AM	XN82TZ	1	22/03/2023 12:42 PM	BL23XK	2
14/03/2023 8:55 AM	XO43EW	1	22/03/2023 12:44 PM	BI88CH	1
14/03/2023 9:09 AM	XO07HY	1	22/03/2023 1:49 PM	XN22OO	1
14/03/2023 9:17 AM	XO00NB	1	22/03/2023 1:54 PM	XO51BT	1
14/03/2023 9:20 AM	XO23GF	1	22/03/2023 2:01 PM	XN35OR	1
14/03/2023 9:25 AM	XO49HG	1	23/03/2023 7:35 AM	XO33OJ	1
14/03/2023 9:27 AM	CE34TZ	1	23/03/2023 7:45 AM	XO44HG	1
14/03/2023 10:01 AM	CE34TZ	1	23/03/2023 7:46 AM	XN09UX	1
14/03/2023 10:05 AM	XO49HG	1	23/03/2023 7:57 AM	881LIQ	1

14/03/2023 10:09 AM	XO07HY	1	23/03/2023 8:00 AM	XN94WC	1
14/03/2023 10:25 AM	XO23GF	1	23/03/2023 8:24 AM	XN35OR	1
14/03/2023 10:32 AM	XO35NB	1	23/03/2023 8:40 AM	XO51CZ	1
14/03/2023 10:33 AM	XO26GF	1	23/03/2023 8:53 AM	BI88CH	1
14/03/2023 10:35 AM	XO57HG	1	23/03/2023 10:19 AM	XN09UX	1
14/03/2023 10:38 AM	XO43EW	1	23/03/2023 10:51 AM	XO51BT	1
14/03/2023 10:41 AM	XO49HG	1	23/03/2023 11:13 AM	XN35OR	1
14/03/2023 10:43 AM	CE34TZ	1	23/03/2023 11:24 AM	BI88CH	1
14/03/2023 10:50 AM	XN08ZO	1	23/03/2023 11:49 AM	XO51CZ	1
14/03/2023 10:53 AM	XO00NB	1	23/03/2023 12:10 PM	BL23XK	1
14/03/2023 11:10 AM	XO07HY	1	23/03/2023 12:12 PM	XO77FK	1
14/03/2023 11:13 AM	XS40EX	1	23/03/2023 12:59 PM	CP23QH	1
14/03/2023 11:15 AM	XO47CZ	1	23/03/2023 1:05 PM	XN35OR	1
14/03/2023 11:19 AM	XO45HG	1	23/03/2023 1:09 PM	BI88CH	1
14/03/2023 11:22 AM	XO82MQ	1	23/03/2023 1:43 PM	XO51CZ	1
14/03/2023 11:23 AM	XO22GF	1	23/03/2023 2:25 PM	BL23XK	1
14/03/2023 11:27 AM	XO23GF	1	24/03/2023 7:20 AM	XO33OJ	1
14/03/2023 11:30 AM	XO35NB	1	24/03/2023 7:31 AM	XN09UX	1
14/03/2023 11:50 AM	XO26GF	1	24/03/2023 7:45 AM	XN94WC	1
14/03/2023 11:52 AM	XN08ZO	1	24/03/2023 8:21 AM	881LIQ	1
14/03/2023 12:00 PM	XN73UT	1	24/03/2023 8:34 AM	XO44HG	1
14/03/2023 12:45 PM	XO07HY	1	24/03/2023 10:02 AM	AK66GS	1
14/03/2023 12:48 PM	XO43EW	1	24/03/2023 10:18 AM	XN35OR	1
14/03/2023 12:49 PM	XO23GF	1	24/03/2023 10:34 AM	BI88CH	1
14/03/2023 12:56 PM	XN08ZO	1	24/03/2023 10:52 AM	XO51CZ	1
14/03/2023 12:58 PM	XO00NB	1	24/03/2023 11:06 AM	XO67AJ	1
14/03/2023 1:12 PM	XN73UT	1	24/03/2023 11:21 AM	XO51BT	1
14/03/2023 1:24 PM	XO45HG	1	24/03/2023 11:36 AM	BL23XK	1
14/03/2023 1:30 PM	XO82MQ	1	27/03/2023 7:46 AM	BL23XK	1
14/03/2023 1:32 PM	XO47CZ	1	27/03/2023 7:55 AM	XO33OJ	1
14/03/2023 1:35 PM	XO26GF	1	27/03/2023 7:58 AM	XO44HG	1

14/03/2023 1:46 PM	CP84TG	1	27/03/2023 8:02 AM	XN94WC	1
14/03/2023 1:53 PM	XO22GF	1	27/03/2023 8:48 AM	CI79PF	1
14/03/2023 1:56 PM	XO07HY	1	27/03/2023 12:16 PM	BL23XK	1
14/03/2023 2:08 PM	XO23GF	1	28/03/2023 7:40 AM	XO33OJ	1
14/03/2023 2:33 PM	XO00NB	1	28/03/2023 7:45 AM	XN09UX	1
14/03/2023 2:42 PM	XO45HG	1	28/03/2023 7:46 AM	XN02EG	1
14/03/2023 3:06 PM	XO07HY	1	28/03/2023 7:53 AM	881LIQ	1
14/03/2023 3:17 PM	XO23GF	1	28/03/2023 7:58 AM	XN94WC	1
15/03/2023 7:15 AM	XO16LW	1	28/03/2023 8:00 AM	XO44HG	1
15/03/2023 7:21 AM	XO72KV	1	28/03/2023 8:03 AM	CI79PF	1
15/03/2023 7:27 AM	XO63PW	1	28/03/2023 8:20 AM	BL23XK	1
15/03/2023 7:35 AM	XO00NB	1	28/03/2023 8:25 AM	AM17XY	1
15/03/2023 8:17 AM	CP84TG	1	28/03/2023 8:45 AM	XO51BT	1
15/03/2023 8:20 AM	XO23GF	1	28/03/2023 8:46 AM	XO67AJ	1
15/03/2023 8:21 AM	XO07HY	1	28/03/2023 9:04 AM	XN35OR	1
15/03/2023 8:50 AM	XO16LW	1	29/03/2023 7:38 AM	XO33OJ	1
15/03/2023 9:16 AM	XO00NB	1	29/03/2023 7:50 AM	881LIQ	1
15/03/2023 9:28 AM	XO07HY	1	29/03/2023 8:00 AM	XQ680J	1
15/03/2023 9:37 AM	XO23GF	1	29/03/2023 8:02 AM	XO44HG	1
15/03/2023 9:53 AM	CP84TG	1	29/03/2023 8:06 AM	AK66GS	1
15/03/2023 10:36 AM	XO16LW	1	29/03/2023 8:08 AM	CI79PF	1
15/03/2023 10:45 AM	XO23GF	1	29/03/2023 8:12 AM	XN94WC	1
15/03/2023 10:48 AM	XO07HY	1	29/03/2023 8:16 AM	XN02EG	1
15/03/2023 10:55 AM	XO00NB	1	30/03/2023 7:21 AM	881LIQ	1
15/03/2023 11:25 AM	CP84TG	1	30/03/2023 7:42 AM	XO52BT	1
15/03/2023 11:49 AM	XO23GF	1	30/03/2023 7:43 AM	CI79PF	1
15/03/2023 11:52 AM	XO07HY	1	30/03/2023 7:45 AM	XN94WC	1
15/03/2023 12:54 PM	XO00NB	1	30/03/2023 7:52 AM	XQ95KJ	1
15/03/2023 1:08 PM	XO43EW	1	30/03/2023 8:18 AM	BL23XK	1
15/03/2023 1:14 PM	XO16LW	1	30/03/2023 8:44 AM	XO67AJ	1
15/03/2023 1:15 PM	XO47CZ	1	30/03/2023 9:01 AM	XO51CZ	1

15/03/2023 1:18 PM	XO82MQ	1	30/03/2023 9:13 AM	XN35OR	1
15/03/2023 1:20 PM	XO45HG	1	30/03/2023 9:31 AM	XN22OO	1
15/03/2023 1:22 PM	XO22GF	1	30/03/2023 9:45 AM	CP23QH	1
15/03/2023 1:24 PM	XS40EX	1	30/03/2023 11:12 AM	XO08KA	1
15/03/2023 1:26 PM	XO14JX	1	30/03/2023 11:21 AM	XO52BT	1
15/03/2023 1:27 PM	XO23GF	1	30/03/2023 11:52 AM	BL23XK	1
15/03/2023 1:46 PM	XO43EW	1	30/03/2023 12:03 PM	XO67AJ	1
15/03/2023 2:00 PM	XN73UT	1	30/03/2023 12:20 PM	XO51CZ	1
15/03/2023 2:02 PM	XN08ZO	1	31/03/2023 7:45 AM	XO33OJ	1
15/03/2023 2:14 PM	XO82MQ	1	31/03/2023 7:50 AM	XN09UX	1
15/03/2023 2:16 PM	XO45HG	1	31/03/2023 7:52 AM	XN94WC	1
15/03/2023 2:29 PM	XO07HY	1	31/03/2023 8:03 AM	XO06LB	1
15/03/2023 2:35 PM	XO23GF	1	31/03/2023 8:18 AM	BL23XK	1
15/03/2023 2:46 PM	XO00NB	1	31/03/2023 8:35 AM	XO52BT	1
15/03/2023 3:25 PM	XO07HY	1	31/03/2023 8:54 AM	XN35OR	1
15/03/2023 3:28 PM	XO23GF	1	31/03/2023 9:58 AM	XO51CZ	1
16/03/2023 7:18 AM	XO16LW	1	31/03/2023 10:02 AM	XO77FK	1
16/03/2023 7:19 AM	XO72KV	1	31/03/2023 11:48 AM	XO52BT	1
16/03/2023 7:20 AM	XO00NB	1	31/03/2023 12:01 PM	BL23XK	1
16/03/2023 7:23 AM	XO16OJ	1	31/03/2023 12:07 PM	XO51CZ	1
16/03/2023 7:24 AM	XO43EW	1	31/03/2023 12:27 PM	XN35OR	1
16/03/2023 7:27 AM	XO35NB	1	31/03/2023 12:32 PM	CP23QH	1
16/03/2023 7:54 AM	XO42EW	1	31/03/2023 12:57 PM	XO67AJ	1
16/03/2023 8:15 AM	XO23GF	1	31/03/2023 1:07 PM	XO07HY	1
16/03/2023 8:16 AM	XO07HY	1			
16/03/2023 8:46 AM	XO43EW	1			
16/03/2023 9:04 AM	XO72KV	1			
16/03/2023 9:07 AM	XO94MQ	1			
16/03/2023 9:09 AM	XO35NB	1			
16/03/2023 9:14 AM	XB82AK	1			
16/03/2023 9:18 AM	XO16OJ	1			

16/03/2023 9:20 AM	XO07HY	1
16/03/2023 9:25 AM	XO00NB	1
16/03/2023 9:26 AM	XO16LW	1
16/03/2023 9:27 AM	XO23GF	1
16/03/2023 10:19 AM	XO07HY	1
16/03/2023 10:25 AM	XO43EW	1
16/03/2023 10:27 AM	XB82AK	1
16/03/2023 10:32 AM	XO23GF	1
16/03/2023 10:35 AM	XO72KV	1
16/03/2023 10:37 AM	XO35NB	1
16/03/2023 10:42 AM	XO94MQ	1
16/03/2023 10:46 AM	XO16OJ	1
16/03/2023 10:51 AM	XO45HG	1
16/03/2023 10:53 AM	XO00NB	1
16/03/2023 10:56 AM	XO16LW	1
16/03/2023 10:59 AM	XO22GF	1
16/03/2023 11:00 AM	XO47CZ	1
16/03/2023 11:06 AM	XS40EX	1
16/03/2023 11:11 AM	XO82MQ	1
16/03/2023 11:17 AM	CP84TG	1
16/03/2023 11:31 AM	XO45HG	1
16/03/2023 11:34 AM	XO07HY	1
16/03/2023 11:35 AM	XB82AK	1
16/03/2023 11:40 AM	XO43EW	1
16/03/2023 11:41 AM	XO22GF	1
16/03/2023 11:43 AM	XO23GF	1
16/03/2023 11:44 AM	XO47CZ	1
16/03/2023 11:45 AM	XS40EX	1
16/03/2023 12:27 PM	XN08ZO	1
16/03/2023 12:33 PM	XO16OJ	1
16/03/2023 12:35 PM	XO94MQ	1

16/03/2023 12:36 PM	XO00NB	1
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16/03/2023 12:43 PM	XO72KV	1
16/03/2023 1:15 PM	XO16LW	1
16/03/2023 1:21 PM	XO45HG	1
16/03/2023 1:22 PM	XO57HG	1
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16/03/2023 1:24 PM	XO47CZ	1
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16/03/2023 1:29 PM	XO82MQ	1
16/03/2023 1:31 PM	XO07HY	1
16/03/2023 1:33 PM	XO23GF	1
16/03/2023 1:51 PM	XO43EW	1
16/03/2023 1:55 PM	XO16OJ	1
16/03/2023 2:00 PM	XN08ZO	1
16/03/2023 2:02 PM	XO43EW	1
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16/03/2023 2:08 PM	XO57HG	1
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16/03/2023 2:36 PM	XO94MQ	1
16/03/2023 2:37 PM	XO72KV	1
16/03/2023 2:38 PM	XO07HY	1
16/03/2023 2:39 PM	XO16LW	1
16/03/2023 2:41 PM	CP84TG	1
16/03/2023 2:44 PM	XO23GF	1
16/03/2023 3:01 PM	XO24AE	1
16/03/2023 3:08 PM	XO63PW	1
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16/03/2023 3:14 PM	XO43EW	1
16/03/2023 3:18 PM	XO16OJ	1
16/03/2023 3:33 PM	XO07HY	1

16/03/2023 3:46 PM	XO23GF	1
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17/03/2023 7:20 AM	XN92WO	1
17/03/2023 7:23 AM	XO35NB	1
17/03/2023 7:26 AM	XO57HG	1
17/03/2023 7:29 AM	XO00NB	1
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17/03/2023 8:28 AM	XO43EW	1
17/03/2023 8:37 AM	XO00NB	1
17/03/2023 8:43 AM	XO63PW	1
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17/03/2023 9:56 AM	XO16OJ	1
17/03/2023 10:03 AM	XO35NB	1
17/03/2023 10:11 AM	XO43EW	1
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17/03/2023 12:37 PM	XO35NB	1
17/03/2023 1:00 PM	XO63PW	1
17/03/2023 1:23 PM	XO43EW	1
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20/03/2023 7:17 AM	XN50SK	1
20/03/2023 7:19 AM	XN66UT	1
20/03/2023 7:20 AM	XO63PW	1
20/03/2023 7:22 AM	XO42EW	1
20/03/2023 7:26 AM	XN82TZ	1
20/03/2023 7:54 AM	AB80LV	1
20/03/2023 8:29 AM	XO43EW	1
20/03/2023 8:31 AM	XN50SK	1
20/03/2023 8:33 AM	XO42EW	1
20/03/2023 8:47 AM	XS40EX	1
20/03/2023 8:58 AM	AB80LV	1

20/03/2023 9:56 AM	XO43EW	1
20/03/2023 9:58 AM	XN50SK	1
20/03/2023 10:00 AM	XO42EW	1
20/03/2023 10:09 AM	XS40EX	1
20/03/2023 10:14 AM	AB80LV	1
20/03/2023 10:20 AM	CP60LI	1
20/03/2023 10:26 AM	XO16LW	1
20/03/2023 10:53 AM	XO43EW	1
20/03/2023 10:56 AM	XB82AK	1
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20/03/2023 11:02 AM	XN50SK	1
20/03/2023 11:11 AM	AB80LV	1
20/03/2023 11:12 AM	XS40EX	1
20/03/2023 11:57 AM	XO43EW	1
20/03/2023 11:58 AM	XN50SK	1
20/03/2023 12:09 PM	AB80LV	1
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20/03/2023 12:13 PM	XB82AK	1
20/03/2023 12:38 PM	XO42EW	1
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20/03/2023 1:38 PM	XO42EW	1
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20/03/2023 1:46 PM	XO45HG	1

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20/03/2023 2:35 PM	XO42EW	1
20/03/2023 3:04 PM	XN82TZ	1
20/03/2023 3:08 PM	XO16LW	1
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21/03/2023 7:34 AM	XO16OJ	1
21/03/2023 7:42 AM	XN82TZ	1
21/03/2023 7:56 AM	XO69JE	1
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21/03/2023 8:03 AM	XO23GF	1
21/03/2023 8:04 AM	XO26GF	1
21/03/2023 8:13 AM	XO09HY	1
21/03/2023 8:18 AM	CP60LI	1
21/03/2023 8:57 AM	AB80LV	1
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21/03/2023 9:24 AM	XN50SK	1
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21/03/2023 9:34 AM	XO26GF	1
21/03/2023 10:05 AM	XO09HY	1
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21/03/2023 10:32 AM	XO23GF	1
21/03/2023 10:33 AM	XO69JE	1
21/03/2023 10:35 AM	XO26GF	1
21/03/2023 10:45 AM	XN66UT	1
21/03/2023 11:16 AM	AB80LV	1

21/03/2023 11:18 AM	XN50SK	1
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21/03/2023 11:46 AM	XO23GF	1
21/03/2023 11:49 AM	XO69JE	1
21/03/2023 11:51 AM	XO26GF	1
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21/03/2023 1:25 PM	XO26GF	1
21/03/2023 1:46 PM	AB80LV	1
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22/03/2023 7:19 AM	CP84TG	1
22/03/2023 7:22 AM	CP83TG	1
22/03/2023 7:23 AM	XO42EW	1
22/03/2023 7:48 AM	XO00NB	1
22/03/2023 7:59 AM	XN66UT	1
22/03/2023 8:05 AM	XO31NB	1
22/03/2023 8:20 AM	XO63PW	1
22/03/2023 8:53 AM	XO09HY	1
22/03/2023 9:23 AM	XN66UT	1
22/03/2023 9:34 AM	XO00NB	1
22/03/2023 9:58 AM	XO43EW	1
22/03/2023 9:59 AM	CP83TG	1
22/03/2023 10:01 AM	BY80LZ	1
22/03/2023 10:04 AM	CP84TG	1
22/03/2023 10:05 AM	AB80LV	1
22/03/2023 10:09 AM	XO16LW	1

22/03/2023 10:15 AM	XO31NB	1
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22/03/2023 10:56 AM	CP83TG	1
22/03/2023 10:57 AM	BY80LZ	1
22/03/2023 10:59 AM	AB80LV	1
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22/03/2023 11:07 AM	XO00NB	1
22/03/2023 11:12 AM	CP60LI	1
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22/03/2023 2:22 PM	XO31NB	1
22/03/2023 2:27 PM	AB80LV	1
22/03/2023 2:29 PM	BY80LZ	1
23/03/2023 7:14 AM	BY80LZ	1
23/03/2023 7:16 AM	XO43EW	1
23/03/2023 7:19 AM	AB80LV	1

23/03/2023 7:20 AM	XO42EW	1
23/03/2023 7:22 AM	CP83TG	1
23/03/2023 7:25 AM	XN50SK	1
23/03/2023 7:29 AM	XO00NB	1
23/03/2023 7:55 AM	XO31NB	1
23/03/2023 7:58 AM	CP84TG	1
23/03/2023 8:14 AM	XO16LW	1
23/03/2023 8:23 AM	BY80LZ	1
23/03/2023 8:25 AM	XO43EW	1
23/03/2023 8:30 AM	AB80LV	1
23/03/2023 9:01 AM	XO00NB	1
23/03/2023 9:09 AM	XO31NB	1
23/03/2023 9:32 AM	CP83TG	1
23/03/2023 9:33 AM	XN50SK	1
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23/03/2023 9:42 AM	BY80LZ	1
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23/03/2023 9:53 AM	AB80LV	1
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23/03/2023 10:47 AM	XO16LW	1
23/03/2023 10:48 AM	AB80LV	1
23/03/2023 10:55 AM	XO57HG	1
23/03/2023 11:21 AM	XO31NB	1
23/03/2023 11:27 AM	CP83TG	1
23/03/2023 11:50 AM	XN50SK	1

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23/03/2023 11:53 AM	XO43EW	1
23/03/2023 11:56 AM	BY80LZ	1
23/03/2023 12:00 PM	AB80LV	1
23/03/2023 12:03 PM	XN66UT	1
23/03/2023 12:57 PM	XO16LW	1
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23/03/2023 1:28 PM	BY80LZ	1
23/03/2023 1:31 PM	XO31NB	1
23/03/2023 1:34 PM	AB80LV	1
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23/03/2023 2:27 PM	AB80LV	1
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23/03/2023 3:23 PM	AB80LV	1
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24/03/2023 8:45 AM	AB80LV	1
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24/03/2023 10:33 AM	XO26GF	1
24/03/2023 10:36 AM	XO42EW	1
24/03/2023 10:48 AM	BY80LZ	1
24/03/2023 10:50 AM	CP84TG	1
24/03/2023 10:53 AM	AB80LV	1
24/03/2023 11:35 AM	XO43EW	1

24/03/2023 11:37 AM	XO26GF	1
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24/03/2023 11:48 AM	XO42EW	1
24/03/2023 11:49 AM	CP84TG	1
24/03/2023 11:54 AM	AB80LV	1
24/03/2023 1:43 PM	XO26GF	1
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27/03/2023 7:17 AM	XN50SK	1
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27/03/2023 12:41 PM	XO00NB	1
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27/03/2023 1:45 PM	XO42EW	1
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27/03/2023 2:08 PM	XO00NB	1
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27/03/2023 2:44 PM	XO42EW	1
27/03/2023 2:46 PM	CP84TG	1
28/03/2023 7:11 AM	XO00NB	1
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28/03/2023 7:16 AM	XO63PW	1
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28/03/2023 11:18 AM	XO82MQ	1
28/03/2023 11:19 AM	XO22GF	1
28/03/2023 11:21 AM	XO35NB	1
28/03/2023 11:23 AM	XO45HG	1
28/03/2023 11:25 AM	XO16LW	1
28/03/2023 11:34 AM	AB80LV	1

28/03/2023 11:35 AM	XS40EX	1
28/03/2023 11:48 AM	XO26GF	1
28/03/2023 11:50 AM	XO00NB	1
28/03/2023 11:52 AM	XO82MQ	1
28/03/2023 12:38 PM	XO42EW	1
28/03/2023 12:43 PM	CP84TG	1
28/03/2023 12:49 PM	AB80LV	1
28/03/2023 12:52 PM	XO45HG	1
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28/03/2023 1:08 PM	XO22GF	1
28/03/2023 1:23 PM	XO82MQ	1
28/03/2023 1:29 PM	AB80LV	1
28/03/2023 1:31 PM	XO00NB	1
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29/03/2023 7:13 AM	XO26GF	1
29/03/2023 7:15 AM	AB80LV	1
29/03/2023 7:28 AM	XO00NB	1
29/03/2023 7:39 AM	XS40EX	1
29/03/2023 7:41 AM	CP60LI	1
29/03/2023 7:43 AM	XO82MQ	1
29/03/2023 7:44 AM	XO22GF	1
29/03/2023 8:00 AM	AB80LV	1
29/03/2023 8:06 AM	XO16LW	1
29/03/2023 8:20 AM	XS40EX	1
29/03/2023 8:21 AM	CP60LI	1

29/03/2023 8:34 AM	XO82MQ	1
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29/03/2023 8:47 AM	AB80LV	1
29/03/2023 8:53 AM	XO35NB	1
29/03/2023 8:55 AM	XO16OJ	1
29/03/2023 8:58 AM	XO00NB	1
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29/03/2023 9:29 AM	XO16LW	1
29/03/2023 9:36 AM	XS40EX	1
29/03/2023 10:00 AM	XO82MQ	1
29/03/2023 10:05 AM	AB80LV	1
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29/03/2023 10:19 AM	XO16OJ	1
29/03/2023 10:21 AM	XO16LW	1
29/03/2023 10:22 AM	XS40EX	1
29/03/2023 10:24 AM	XO00NB	1
29/03/2023 10:39 AM	XO35NB	1
29/03/2023 10:51 AM	XS40EX	1
29/03/2023 11:09 AM	XO16LW	1
29/03/2023 11:43 AM	XO16OJ	1
29/03/2023 11:56 AM	XO00NB	1
29/03/2023 11:57 AM	XO47CZ	1
29/03/2023 1:09 PM	XO16OJ	1
29/03/2023 1:13 PM	AB80LV	1
29/03/2023 1:15 PM	XO82MQ	1
29/03/2023 1:27 PM	XO24AE	1
29/03/2023 1:28 PM	XO00NB	1
29/03/2023 1:37 PM	XS40EX	1
29/03/2023 1:58 PM	XO22GF	1
29/03/2023 2:08 PM	XS40EX	1
29/03/2023 2:09 PM	CP60LI	1

29/03/2023 2:17 PM	AB80LV	1
29/03/2023 2:20 PM	XO16LW	1
29/03/2023 2:22 PM	XO47CZ	1
29/03/2023 2:24 PM	XO82MQ	1
29/03/2023 2:37 PM	XS40EX	1
29/03/2023 2:38 PM	CP60LI	1
29/03/2023 2:54 PM	XO16OJ	1
29/03/2023 3:04 PM	XO00NB	1
30/03/2023 7:27 AM	CG20RC	1
30/03/2023 7:31 AM	XO00NB	1
30/03/2023 7:34 AM	XO82MQ	1
30/03/2023 8:11 AM	XO57HG	1
30/03/2023 8:42 AM	XO22GF	1
30/03/2023 8:59 AM	XO47CZ	1
30/03/2023 9:06 AM	XO82MQ	1
30/03/2023 9:28 AM	XO00NB	1
30/03/2023 10:23 AM	XO82MQ	1
30/03/2023 10:51 AM	XO00NB	1
30/03/2023 11:04 AM	XO22GF	1
30/03/2023 11:08 AM	XO47CZ	1
30/03/2023 11:49 AM	XO82MQ	1
30/03/2023 12:54 PM	AB80LV	1
30/03/2023 1:10 PM	XO22GF	1
30/03/2023 1:15 PM	XO82MQ	1
30/03/2023 1:17 PM	XO47CZ	1
30/03/2023 1:30 PM	XO26GF	1
30/03/2023 1:45 PM	XS40EX	1
30/03/2023 1:52 PM	XO22GF	1
30/03/2023 2:00 PM	XO47CZ	1
30/03/2023 2:04 PM	AB80LV	1
30/03/2023 2:10 PM	XO63PW	1

30/03/2023 2:13 PM	XN66UT	1
30/03/2023 2:28 PM	XS40EX	1
30/03/2023 2:29 PM	XN50SK	1
30/03/2023 2:33 PM	CP83TG	1
30/03/2023 2:35 PM	XO22GF	1
30/03/2023 2:38 PM	XO47CZ	1
30/03/2023 3:03 PM	XO26GF	1
31/03/2023 7:11 AM	XO00NB	1
31/03/2023 7:18 AM	XS40EX	1
31/03/2023 7:22 AM	AB80LV	1
31/03/2023 7:27 AM	CP84TG	1
31/03/2023 7:33 AM	XN50SK	1
31/03/2023 7:38 AM	CP83TG	1
31/03/2023 7:42 AM	XO22GF	1
31/03/2023 7:48 AM	XO47CZ	1
31/03/2023 7:53 AM	XS40EX	1
31/03/2023 8:08 AM	XN50SK	1
31/03/2023 8:11 AM	CP83TG	1
31/03/2023 8:20 AM	XO22GF	1
31/03/2023 8:26 AM	XO47CZ	1
31/03/2023 8:31 AM	XB82AK	1
31/03/2023 8:41 AM	AB80LV	1
31/03/2023 8:42 AM	XS40EX	1
31/03/2023 8:46 AM	XO00NB	1
31/03/2023 8:48 AM	XN50SK	1
31/03/2023 8:55 AM	CP84TG	1
31/03/2023 9:03 AM	XO47CZ	1
31/03/2023 9:10 AM	XB82AK	1
31/03/2023 9:29 AM	XO22GF	1
31/03/2023 9:33 AM	CP83TG	1
31/03/2023 9:59 AM	XS40EX	1

31/03/2023 10:05 AM	XN50SK	1
31/03/2023 10:09 AM	XB82AK	1
31/03/2023 10:13 AM	XO47CZ	1
31/03/2023 10:15 AM	CP83TG	1
31/03/2023 10:16 AM	XO22GF	1
31/03/2023 10:19 AM	XO00NB	1
31/03/2023 10:37 AM	XS40EX	1
31/03/2023 10:39 AM	XN50SK	1
31/03/2023 10:42 AM	XB82AK	1
31/03/2023 10:55 AM	CP83TG	1
31/03/2023 10:57 AM	XO22GF	1
31/03/2023 11:09 AM	XO35NB	1
31/03/2023 11:10 AM	AB80LV	1
31/03/2023 11:11 AM	XO47CZ	1
31/03/2023 11:12 AM	XS40EX	1
31/03/2023 11:41 AM	XN66UT	1
31/03/2023 12:35 PM	XB82AK	1
31/03/2023 12:36 PM	XN50SK	1
31/03/2023 12:37 PM	CP83TG	1
31/03/2023 12:38 PM	XO22GF	1
31/03/2023 12:42 PM	XO26GF	1
31/03/2023 12:54 PM	XS40EX	1
31/03/2023 12:56 PM	XO47CZ	1
31/03/2023 1:18 PM	XB82AK	1
31/03/2023 1:21 PM	XN50SK	1
31/03/2023 1:23 PM	CP83TG	1
31/03/2023 1:24 PM	XO22GF	1
31/03/2023 1:28 PM	XS40EX	1
31/03/2023 1:31 PM	XO47CZ	1
31/03/2023 1:54 PM	XB82AK	1
31/03/2023 2:01 PM	XN50SK	1

31/03/2023 2:03 PM	CP83TG	1			
31/03/2023 2:04 PM	XO22GF	1			
31/03/2023 2:06 PM	XS40EX	1			
31/03/2023 2:16 PM	XO47CZ	1			
31/03/2023 2:29 PM	AB80LV	1			
3/04/2023 7:14 AM	CP60LI	1	1/04/2023 8:51 AM	BL23XK	1
3/04/2023 7:20 AM	XO43EW	1	1/04/2023 9:07 AM	XO52BT	1
3/04/2023 7:27 AM	CN70EQ	1	1/04/2023 9:24 AM	XO67AJ	1
3/04/2023 7:29 AM	XO22GF	1	1/04/2023 9:42 AM	XO07HY	1
3/04/2023 7:30 AM	AB80LV	1	1/04/2023 9:48 AM	XN22OO	1
3/04/2023 7:32 AM	XO82MQ	1	1/04/2023 10:08 AM	CP23QH	1
3/04/2023 7:35 AM	XO47CZ	1	1/04/2023 10:33 AM	XN35OR	1
3/04/2023 7:38 AM	XO45HG	1	1/04/2023 10:47 AM	XN30BP	1
3/04/2023 7:43 AM	XO00NB	1	1/04/2023 11:00 AM	XN73UT	1
3/04/2023 7:47 AM	XS40EX	1	1/04/2023 12:41 PM	XO52BT	1
3/04/2023 7:52 AM	XN50SK	1	1/04/2023 1:00 PM	BL23XK	1
3/04/2023 7:55 AM	CP84TG	1	3/04/2023 7:54 AM	XO33OJ	1
3/04/2023 8:09 AM	XO22GF	1	3/04/2023 7:55 AM	XN09UX	1
3/04/2023 8:17 AM	CP60LI	1	3/04/2023 7:56 AM	XQ95KJ	1
3/04/2023 8:43 AM	XS40EX	1	3/04/2023 8:00 AM	XO74DI	1
3/04/2023 8:44 AM	XO82MQ	1	3/04/2023 8:06 AM	XN16YZ	1
3/04/2023 8:47 AM	XO45HG	1	3/04/2023 8:24 AM	XO51CZ	1
3/04/2023 8:49 AM	XO47CZ	1	3/04/2023 8:39 AM	XO52BT	1
3/04/2023 8:53 AM	XO43EW	1	3/04/2023 9:02 AM	CK38WU	1
3/04/2023 8:55 AM	XO22GF	1	3/04/2023 9:20 AM	XN86OK	1
3/04/2023 8:59 AM	AB80LV	1	3/04/2023 10:38 AM	BI88CH	1
3/04/2023 9:05 AM	CP60LI	1	3/04/2023 10:43 AM	XO51BT	1
3/04/2023 9:21 AM	CN70EQ	1	3/04/2023 11:07 AM	XO33OJ	1
3/04/2023 9:30 AM	XN50SK	1	3/04/2023 12:20 PM	XO77FK	1
3/04/2023 9:31 AM	CP84TG	1	3/04/2023 12:28 PM	XO67AJ	1
3/04/2023 10:14 AM	XO82MQ	1	4/04/2023 7:44 AM	XO33OJ	1

3/04/2023 10:16 AM	CP60LI	1	4/04/2023 7:53 AM	XN09UX	1
3/04/2023 10:17 AM	XO45HG	1	4/04/2023 8:01 AM	XQ95KJ	1
3/04/2023 10:21 AM	XO22GF	1	4/04/2023 8:28 AM	XN02EG	1
3/04/2023 10:32 AM	XO43EW	1	4/04/2023 12:24 PM	XQ95KJ	1
3/04/2023 10:39 AM	CN70EQ	1	5/04/2023 7:33 AM	XO52BT	1
3/04/2023 10:44 AM	XN50SK	1	5/04/2023 7:56 AM	XO51CZ	1
3/04/2023 10:48 AM	CP84TG	1	5/04/2023 7:58 AM	XO33OJ	1
3/04/2023 10:51 AM	XO82MQ	1	5/04/2023 8:03 AM	XN09UX	1
3/04/2023 10:54 AM	CP60LI	1	5/04/2023 8:05 AM	CK04RV	1
3/04/2023 10:57 AM	XO45HG	1	5/04/2023 8:10 AM	XN94WC	1
3/04/2023 11:05 AM	XO22GF	1	5/04/2023 8:11 AM	XQ95KJ	1
3/04/2023 11:08 AM	XS40EX	1	5/04/2023 8:28 AM	XN86OK	1
3/04/2023 11:41 AM	XO82MQ	1	5/04/2023 8:42 AM	BI88CH	1
3/04/2023 11:42 AM	CP60LI	1	5/04/2023 8:57 AM	CP23QH	1
3/04/2023 11:44 AM	XO42EW	1	5/04/2023 9:08 AM	XO07HY	1
3/04/2023 11:46 AM	XO43EW	1	5/04/2023 9:24 AM	XO77FK	1
3/04/2023 11:48 AM	XO45HG	1	5/04/2023 10:09 AM	XN09UX	1
3/04/2023 11:50 AM	XO47CZ	2	5/04/2023 10:33 AM	XN86OK	1
3/04/2023 11:54 AM	AB80LV	1	5/04/2023 11:02 AM	BI88CH	1
3/04/2023 11:57 AM	CN70EQ	1	5/04/2023 11:04 AM	CP23QH	1
3/04/2023 11:59 AM	XO42GF	1	5/04/2023 11:27 AM	XO07HY	1
3/04/2023 12:01 PM	XS40EX	1	5/04/2023 11:33 AM	XO77FK	1
3/04/2023 12:02 PM	XN50SK	1	5/04/2023 2:28 PM	XN86OK	1
3/04/2023 12:45 PM	CP84TG	1	5/04/2023 2:44 PM	XO52BT	1
3/04/2023 1:39 PM	XO24AE	1	5/04/2023 2:56 PM	XN22OO	1
4/04/2023 7:10 AM	AB80LV	1	5/04/2023 3:09 PM	BI88CH	1
4/04/2023 7:12 AM	XO00NB	1	5/04/2023 3:25 PM	BL23XK	1
4/04/2023 7:14 AM	XO63PW	1	5/04/2023 3:36 PM	CP23QH	1
4/04/2023 7:25 AM	XN66UT	1	5/04/2023 3:50 PM	XO07HY	1
4/04/2023 7:31 AM	XO43EW	1	6/04/2023 7:23 AM	XO33OJ	1
4/04/2023 7:34 AM	XN50SK	1	6/04/2023 7:35 AM	AK66GS	1

4/04/2023 7:39 AM	CP83TG	1	6/04/2023 7:40 AM	XN09UX	1
4/04/2023 7:48 AM	CP84TG	1	6/04/2023 7:41 AM	XN02EG	1
4/04/2023 8:00 AM	XO82MQ	1	6/04/2023 7:53 AM	XQ95KJ	1
4/04/2023 8:02 AM	XO42EW	1	6/04/2023 8:13 AM	XO67AJ	1
4/04/2023 8:03 AM	CP60LI	1	6/04/2023 8:29 AM	XO51CZ	1
4/04/2023 8:04 AM	XO45HG	1	6/04/2023 8:51 AM	XO52BT	1
4/04/2023 8:44 AM	XO43EW	1	6/04/2023 9:06 AM	XN86OK	1
4/04/2023 8:49 AM	XN50SK	1	6/04/2023 9:20 AM	BI88CH	1
4/04/2023 8:55 AM	CP83TG	1	6/04/2023 9:37 AM	XN08ZO	1
4/04/2023 9:00 AM	AB80LV	1	6/04/2023 9:49 AM	XN22OO	1
4/04/2023 9:31 AM	XO42EW	1	6/04/2023 10:05 AM	CP23QH	1
4/04/2023 10:14 AM	XO16LW	1	6/04/2023 10:23 AM	XN35OR	1
4/04/2023 10:32 AM	XO00NB	1	6/04/2023 10:38 AM	XO77FK	1
4/04/2023 12:42 PM	XO16LW	1	6/04/2023 10:56 AM	XO52BT	1
4/04/2023 12:44 PM	XO00NB	1	6/04/2023 11:13 AM	XN86OK	1
5/04/2023 7:30 AM	AB80LV	1	6/04/2023 11:29 AM	BI88CH	1
5/04/2023 7:31 AM	XO00NB	1	6/04/2023 11:40 AM	XN08ZO	1
5/04/2023 7:41 AM	CP84TG	1	6/04/2023 11:56 AM	XN22OO	1
5/04/2023 7:44 AM	XO82MQ	1	6/04/2023 12:10 PM	CP23QH	1
5/04/2023 7:47 AM	XO22GF	1	6/04/2023 12:28 PM	XN35OR	1
5/04/2023 8:29 AM	XO82MQ	1	6/04/2023 12:45 PM	XO77FK	1
5/04/2023 8:33 AM	CP84TG	1	6/04/2023 1:01 PM	BL23XK	1
5/04/2023 8:38 AM	XO22GF	1	6/04/2023 1:20 PM	XO52BT	1
5/04/2023 8:59 AM	XO00NB	1	6/04/2023 1:49 PM	XN86OK	1
5/04/2023 9:07 AM	XO82MQ	1	11/04/2023 7:34 AM	XO33OJ	1
5/04/2023 9:19 AM	AB80LV	1	11/04/2023 7:40 AM	XQ95KJ	1
5/04/2023 9:44 AM	CP84TG	1	11/04/2023 7:47 AM	XN09UX	1
5/04/2023 9:59 AM	XO22GF	1	11/04/2023 8:02 AM	BL23XK	1
5/04/2023 10:02 AM	XO82MQ	1	11/04/2023 8:28 AM	XO52BT	1
5/04/2023 10:17 AM	CP83TG	1	11/04/2023 8:34 AM	XN86OK	1
5/04/2023 10:31 AM	CP84TG	1	11/04/2023 8:45 AM	BI88CH	1

5/04/2023 10:35 AM	XO22GF	1	11/04/2023 9:01 AM	XN35OR	1
5/04/2023 10:38 AM	XO82MQ	1	11/04/2023 9:23 AM	XO51CZ	1
5/04/2023 11:15 AM	XO00NB	1	11/04/2023 9:37 AM	XO67AJ	1
5/04/2023 11:20 AM	CP84TG	1	11/04/2023 10:28 AM	CK38WU	1
5/04/2023 11:24 AM	XO22GF	1	11/04/2023 10:37 AM	XN08ZO	1
5/04/2023 11:32 AM	CP83TG	1	11/04/2023 10:40 AM	XN09UX	1
5/04/2023 11:34 AM	XO82MQ	1	11/04/2023 10:55 AM	CP23QH	1
5/04/2023 12:00 PM	XO47CZ	1	11/04/2023 11:08 AM	XO71FK	1
5/04/2023 12:55 PM	XO00NB	1	11/04/2023 11:23 AM	XN73UT	1
5/04/2023 1:12 PM	CP84TG	1	11/04/2023 11:24 AM	XQ95KJ	1
5/04/2023 1:19 PM	CP83TG	1	11/04/2023 11:33 AM	XN22OO	1
5/04/2023 1:20 PM	XO22GF	1	11/04/2023 12:06 PM	XO52BT	1
5/04/2023 1:23 PM	XO82MQ	1	12/04/2023 7:32 AM	XO33OJ	1
6/04/2023 7:12 AM	XO00NB	1	12/04/2023 7:34 AM	XQ95KJ	1
6/04/2023 7:18 AM	AB80LV	1	12/04/2023 7:39 AM	XO44HG	1
6/04/2023 7:25 AM	XO43EW	1	12/04/2023 7:48 AM	881LIQ	1
6/04/2023 7:29 AM	CP83TG	1	12/04/2023 7:53 AM	XN94WC	1
6/04/2023 7:33 AM	CP84TG	1	12/04/2023 8:17 AM	XO52BT	1
6/04/2023 7:43 AM	XO57HG	1	12/04/2023 8:26 AM	XN35OR	1
6/04/2023 8:23 AM	XO22GF	1	12/04/2023 9:55 AM	XO67AJ	1
6/04/2023 8:27 AM	XO47CZ	1	13/04/2023 8:14 AM	XQ95KJ	1
6/04/2023 8:36 AM	AB80LV	1	13/04/2023 9:55 AM	881LIQ	1
6/04/2023 8:40 AM	CP83TG	1	13/04/2023 10:09 AM	BL23XK	1
6/04/2023 8:49 AM	CP84TG	1	13/04/2023 10:23 AM	XO52BT	1
6/04/2023 9:55 AM	XO47CZ	1	13/04/2023 10:41 AM	XO67AJ	1
6/04/2023 10:03 AM	XO43EW	1	13/04/2023 10:50 AM	XN86OK	1
6/04/2023 10:08 AM	XO22GF	1	13/04/2023 11:05 AM	XO07HY	1
6/04/2023 10:17 AM	AB80LV	1	13/04/2023 11:21 AM	BI88CH	1
6/04/2023 10:33 AM	XO47CZ	1	13/04/2023 11:40 AM	XO51CZ	1
6/04/2023 11:15 AM	XO57HG	1	13/04/2023 11:54 AM	XN35OR	1
6/04/2023 11:21 AM	AB80LV	1	13/04/2023 12:06 PM	XN22OO	1

6/04/2023 11:38 AM	CP84TG	1	13/04/2023 12:16 PM	XN08ZO	1
6/04/2023 11:43 AM	CP83TG	1	13/04/2023 12:29 PM	CP23QH	1
6/04/2023 1:19 PM	XO57HG	1	13/04/2023 12:42 PM	XO77FK	1
6/04/2023 1:35 PM	AB80LV	1	13/04/2023 12:53 PM	XN73UT	1
6/04/2023 1:39 PM	CP84TG	1	13/04/2023 1:55 PM	BL23XK	1
6/04/2023 1:43 PM	CP83TG	1	14/04/2023 7:28 AM	XO44HG	1
6/04/2023 2:13 PM	XO57HG	1	14/04/2023 7:36 AM	XO33OJ	1
11/04/2023 7:23 AM	AB80LV	1	14/04/2023 7:40 AM	XQ95KJ	1
11/04/2023 7:27 AM	XO16LW	1	14/04/2023 7:47 AM	881LIQ	1
11/04/2023 7:42 AM	XO78EV	1	14/04/2023 7:48 AM	XN94WC	1
11/04/2023 7:45 AM	XO35NB	1	14/04/2023 7:57 AM	XN32TQ	1
11/04/2023 8:03 AM	XO42EW	1	14/04/2023 8:11 AM	XO52BT	1
11/04/2023 8:06 AM	XO57HG	1	14/04/2023 8:23 AM	XO67AJ	1
11/04/2023 8:31 AM	CP83TG	1	14/04/2023 9:56 AM	BL23XK	1
11/04/2023 8:44 AM	XO78KV	1	15/04/2023 7:35 AM	XN35OR	1
11/04/2023 8:52 AM	XO42GF	1	15/04/2023 8:34 AM	XO52BT	1
11/04/2023 8:55 AM	XO26GF	1	15/04/2023 8:59 AM	XO07HY	1
11/04/2023 9:21 AM	XO78EV	1	15/04/2023 9:08 AM	CP23QH	1
11/04/2023 9:41 AM	XO35NB	1	15/04/2023 9:13 AM	XN08ZO	1
11/04/2023 9:54 AM	CP83TG	1	15/04/2023 10:11 AM	CK38WU	1
11/04/2023 10:03 AM	XO78KV	1	15/04/2023 10:17 AM	XN22OO	1
11/04/2023 10:35 AM	XO78EV	1	15/04/2023 10:24 AM	XN86OK	1
11/04/2023 10:36 AM	XO26GF	1	15/04/2023 10:38 AM	BL23XK	1
11/04/2023 11:09 AM	CP83TG	1	15/04/2023 10:40 AM	XO51BT	1
11/04/2023 11:16 AM	XO78KV	1	15/04/2023 11:12 AM	XN35OR	1
11/04/2023 11:21 AM	XO35NB	1	15/04/2023 11:25 AM	XN73UT	1
11/04/2023 12:40 PM	XO35NB	1	15/04/2023 11:27 AM	XO52BT	1
11/04/2023 12:55 PM	XO78EV	1	15/04/2023 12:35 PM	XN22OO	1
11/04/2023 1:18 PM	CP83TG	1	15/04/2023 1:25 PM	XO07HY	1
11/04/2023 2:05 PM	XO35NB	1	15/04/2023 1:35 PM	XN08ZO	1
11/04/2023 2:17 PM	AV43YN	1	15/04/2023 1:46 PM	CP23QH	1

11/04/2023 2:20 PM	XO78EV	1	15/04/2023 2:16 PM	XN86OK	1
12/04/2023 7:26 AM	XO00NB	1	15/04/2023 2:36 PM	XO67AJ	1
12/04/2023 7:31 AM	CP60LI	1	15/04/2023 2:47 PM	XO52BT	1
12/04/2023 7:36 AM	CP84TG	1	17/04/2023 7:27 AM	XO33OJ	1
12/04/2023 7:42 AM	XO49HG	1	17/04/2023 7:31 AM	XO44HG	1
12/04/2023 7:46 AM	XO45HG	1	17/04/2023 7:36 AM	XQ95KJ	1
12/04/2023 8:54 AM	XO00NB	1	17/04/2023 7:54 AM	XO52BT	1
12/04/2023 9:17 AM	XO45HG	1	17/04/2023 7:56 AM	XQ680J	1
12/04/2023 9:23 AM	XO49HG	1	17/04/2023 8:16 AM	BL23XK	1
12/04/2023 9:28 AM	CP60LI	1	17/04/2023 8:27 AM	XO67AJ	1
12/04/2023 9:53 AM	XO63PW	1	17/04/2023 8:56 AM	XN35OR	1
12/04/2023 10:14 AM	XO00NB	1	17/04/2023 10:35 AM	XO44HG	1
12/04/2023 10:39 AM	CP84TG	1	18/04/2023 7:36 AM	XO33OJ	1
12/04/2023 10:49 AM	XO63PW	1	18/04/2023 7:41 AM	XQ95KJ	1
12/04/2023 11:02 AM	XO45HG	1	18/04/2023 7:44 AM	XO44HG	1
12/04/2023 11:12 AM	XO78EV	2	18/04/2023 7:56 AM	XN94WC	1
12/04/2023 11:16 AM	CP60LI	1	18/04/2023 8:15 AM	AM17XY	1
12/04/2023 11:26 AM	XO47CZ	1	18/04/2023 8:20 AM	XO52BT	1
12/04/2023 12:38 PM	XO45HG	1	18/04/2023 8:31 AM	XO67AJ	1
12/04/2023 12:52 PM	CP84TG	1	18/04/2023 10:17 AM	AM17XY	1
12/04/2023 1:04 PM	CP60LI	1	18/04/2023 10:18 AM	XO44HG	1
12/04/2023 1:08 PM	CG20RC	1	18/04/2023 11:30 AM	XQ95KJ	1
12/04/2023 1:16 PM	XO47CZ	1	18/04/2023 12:18 PM	AM17XY	1
12/04/2023 2:02 PM	XO45HG	1	18/04/2023 1:24 PM	XQ51RQ	1
12/04/2023 2:23 PM	CP60LI	1	19/04/2023 7:47 AM	XO33OJ	1
12/04/2023 2:52 PM	XO49HG	1	19/04/2023 7:51 AM	XO44HG	1
13/04/2023 7:16 AM	XO26GF	1	19/04/2023 8:00 AM	AW95CU	1
13/04/2023 7:19 AM	CG20RC	1	19/04/2023 8:02 AM	XQ95KJ	1
13/04/2023 7:22 AM	XO45HG	1	19/04/2023 8:05 AM	XN94WC	1
13/04/2023 7:26 AM	XO78EV	1	19/04/2023 8:19 AM	XN02EG	1
13/04/2023 7:29 AM	XO49HG	1	19/04/2023 8:33 AM	XO52BT	1

13/04/2023 7:31 AM	XO47CZ	1	19/04/2023 8:46 AM	BI88CH	1
13/04/2023 7:32 AM	XO00NB	1	19/04/2023 9:02 AM	XN86OK	1
13/04/2023 7:43 AM	CP84TG	1	19/04/2023 9:13 AM	XO07HY	1
13/04/2023 7:58 AM	CP83TG	1	19/04/2023 9:29 AM	XN35OR	1
13/04/2023 8:19 AM	XO26GF	1	19/04/2023 9:52 AM	XO44HG	1
13/04/2023 8:53 AM	XO78EV	1	19/04/2023 11:35 AM	XO67AJ	1
13/04/2023 8:56 AM	XO45HG	1	19/04/2023 12:12 PM	AW95CU	1
13/04/2023 9:09 AM	XO00NB	1	20/04/2023 7:30 AM	XO33OJ	1
13/04/2023 9:18 AM	CP84TG	1	20/04/2023 7:33 AM	XO44HG	1
13/04/2023 9:21 AM	CP83TG	1	20/04/2023 7:40 AM	XQ95KJ	1
13/04/2023 10:10 AM	XO26GF	1	20/04/2023 7:46 AM	XN02EG	1
13/04/2023 10:11 AM	XO78EV	1	20/04/2023 7:47 AM	XN94WC	1
13/04/2023 10:15 AM	XO47CZ	1	20/04/2023 8:07 AM	XO52BT	1
13/04/2023 10:26 AM	XO45HG	1	20/04/2023 8:35 AM	XN86OK	1
13/04/2023 10:27 AM	CP84TG	1	20/04/2023 8:55 AM	BI88CH	1
13/04/2023 10:30 AM	CP83TG	1	20/04/2023 9:07 AM	XO51CZ	1
13/04/2023 11:00 AM	XN89VR	1	20/04/2023 9:32 AM	XO07HY	1
13/04/2023 11:10 AM	XO26GF	1	20/04/2023 11:19 AM	XO44HG	1
13/04/2023 11:20 AM	XO82MQ	1	20/04/2023 12:01 PM	XQ51RQ	1
13/04/2023 11:37 AM	CI61FI	1	20/04/2023 12:03 PM	XN35OR	1
13/04/2023 11:42 AM	XO78EV	1	20/04/2023 12:36 PM	XO67AJ	1
13/04/2023 11:49 AM	CP84TG	1	20/04/2023 12:40 PM	BL23XK	1
13/04/2023 11:53 AM	XO45HG	1	21/04/2023 7:56 AM	XQ95KJ	1
13/04/2023 11:57 AM	CP83TG	1	21/04/2023 8:14 AM	XN94WC	1
13/04/2023 12:37 PM	XO82MQ	1	24/04/2023 7:28 AM	XQ95KJ	1
13/04/2023 12:44 PM	CI61FI	1	26/04/2023 7:50 AM	XO33OJ	1
13/04/2023 12:46 PM	XO63PW	1	26/04/2023 7:54 AM	XO44HG	1
13/04/2023 1:06 PM	XO78EV	1	26/04/2023 7:57 AM	XQ680J	1
13/04/2023 1:14 PM	XO26GF	1	26/04/2023 8:05 AM	XQ95KJ	1
13/04/2023 1:18 PM	XO45HG	1	27/04/2023 7:52 AM	XO33OJ	1
13/04/2023 1:23 PM	XO82MQ	1	27/04/2023 8:00 AM	XO44HG	1

13/04/2023 1:28 PM	CI61FI	1	27/04/2023 8:06 AM	XQ95KJ	1
13/04/2023 2:00 PM	CP83TG	1	27/04/2023 10:17 AM	XO44HG	1
13/04/2023 2:32 PM	XO82MQ	1	28/04/2023 7:28 AM	CG20RC	1
13/04/2023 2:38 PM	XO45HG	1	28/04/2023 7:35 AM	XQ95KJ	1
13/04/2023 2:43 PM	XO47CZ	1	28/04/2023 7:53 AM	881LIQ	1
13/04/2023 2:44 PM	XO63PW	1	28/04/2023 7:54 AM	XO33OJ	1
14/04/2023 7:12 AM	XO00NB	1	28/04/2023 7:55 AM	XN30AO	1
14/04/2023 7:16 AM	XO63PW	1	28/04/2023 8:00 AM	XO44HG	1
14/04/2023 7:19 AM	CP60LI	1	28/04/2023 10:04 AM	XO44HG	1
14/04/2023 7:24 AM	XO35NB	1	28/04/2023 12:54 PM	XO67AJ	1
14/04/2023 7:39 AM	CP83TG	1	28/04/2023 1:00 PM	XN35OR	1
14/04/2023 7:44 AM	XO82MQ	1	28/04/2023 1:19 PM	XO52BT	1
14/04/2023 8:24 AM	XO47CZ	1	28/04/2023 2:16 PM	XO51BT	1
14/04/2023 8:26 AM	XO35NB	1			
14/04/2023 8:38 AM	XO00NB	1			
14/04/2023 9:07 AM	XO82MQ	1			
14/04/2023 9:20 AM	XO35NB	1			
14/04/2023 10:01 AM	CP84TG	1			
14/04/2023 10:04 AM	XO63PW	1			
14/04/2023 10:06 AM	XO00NB	1			
14/04/2023 10:13 AM	CP83TG	1			
14/04/2023 10:15 AM	CP60LI	1			
14/04/2023 10:19 AM	XO35NB	1			
14/04/2023 10:26 AM	XO66CP	1			
14/04/2023 11:04 AM	CP84TG	1			
14/04/2023 11:15 AM	XO35NB	1			
14/04/2023 11:29 AM	XO00NB	1			
14/04/2023 11:45 AM	CP60LI	1			
14/04/2023 11:51 AM	XO90JD	1			
14/04/2023 11:57 AM	CP83TG	1			
14/04/2023 11:59 AM	XO66KV	1			

14/04/2023 12:39 PM	XO35NB	1
14/04/2023 12:50 PM	XO00NB	1
14/04/2023 1:14 PM	XO90JD	1
14/04/2023 1:26 PM	CP83TG	1
14/04/2023 1:35 PM	XO35NB	1
14/04/2023 2:26 PM	XO35NB	1
17/04/2023 7:18 AM	XO49HG	1
17/04/2023 7:23 AM	XO63PW	1
17/04/2023 8:38 AM	XO66KV	1
17/04/2023 8:43 AM	XO49HG	1
17/04/2023 9:59 AM	XO49HG	1
17/04/2023 11:54 AM	XO57HG	1
17/04/2023 12:43 PM	XO49HG	1
17/04/2023 2:12 PM	XO57HG	1
17/04/2023 2:56 PM	XO49HG	1
18/04/2023 7:23 AM	XO16LW	1
18/04/2023 7:25 AM	XO63PW	1
18/04/2023 7:28 AM	CP83TG	1
18/04/2023 7:30 AM	XO43EW	1
18/04/2023 7:48 AM	XO49HG	1
18/04/2023 9:33 AM	XO43EW	1
18/04/2023 10:52 AM	XO43EW	1
18/04/2023 11:32 AM	XO63PW	1
18/04/2023 11:46 AM	XO49HG	1
18/04/2023 12:49 PM	XO43EW	1
18/04/2023 2:17 PM	CK61GD	1
18/04/2023 2:35 PM	XO43EW	1
19/04/2023 7:17 AM	CP83TG	1
19/04/2023 7:24 AM	XO57HG	1
19/04/2023 8:54 AM	CP83TG	1
19/04/2023 10:24 AM	XO43EW	1

19/04/2023 10:37 AM	CP83TG	1
19/04/2023 11:26 AM	XO57HG	1
19/04/2023 12:41 PM	XO43EW	1
19/04/2023 12:42 PM	CP83TG	1
19/04/2023 12:46 PM	XO66CP	1
19/04/2023 12:48 PM	CO62NU	1
19/04/2023 1:55 PM	XO63PW	1
19/04/2023 2:04 PM	XO57HG	1
19/04/2023 2:26 PM	CE34TZ	1
19/04/2023 3:28 PM	CE34TZ	1
20/04/2023 7:13 AM	XO16LW	1
20/04/2023 7:24 AM	XO63PW	1
20/04/2023 7:27 AM	XQ93XI	1
20/04/2023 7:45 AM	XO49HG	1
20/04/2023 10:20 AM	XO14JX	1
20/04/2023 10:25 AM	XO49HG	1
20/04/2023 10:39 AM	CP84TG	1
20/04/2023 11:25 AM	XO49HG	1
20/04/2023 11:54 AM	CP84TG	1
20/04/2023 1:08 PM	XO49HG	1
20/04/2023 1:52 PM	CP84TG	1
20/04/2023 2:04 PM	XO49HG	1
20/04/2023 2:57 PM	XO49HG	1
20/04/2023 3:44 PM	XO49HG	1
21/04/2023 7:34 AM	XO49HG	1
21/04/2023 7:41 AM	XN66UT	1
21/04/2023 8:30 AM	XO49HG	1
21/04/2023 9:26 AM	XO49HG	1
21/04/2023 10:19 AM	XO49HG	1
21/04/2023 11:15 AM	XO49HG	1
21/04/2023 12:42 PM	XO49HG	1

24/04/2023 8:18 AM	CP84TG	1
24/04/2023 10:30 AM	CP84TG	1
24/04/2023 11:40 AM	CP84TG	1
24/04/2023 1:50 PM	CP84TG	1
26/04/2023 7:34 AM	XN50SK	1
26/04/2023 7:37 AM	XO22GF	1
26/04/2023 7:41 AM	XO47CZ	1
26/04/2023 7:52 AM	CP83TG	1
26/04/2023 8:39 AM	XO22GF	1
26/04/2023 8:44 AM	CP84TG	1
26/04/2023 8:46 AM	XO47CZ	1
26/04/2023 9:31 AM	CP83TG	1
26/04/2023 9:34 AM	XN50SK	1
26/04/2023 9:58 AM	XO22GF	1
26/04/2023 10:00 AM	XO47CZ	1
26/04/2023 10:24 AM	CP84TG	1
26/04/2023 10:27 AM	CP83TG	1
26/04/2023 10:38 AM	AB80LV	1
26/04/2023 10:39 AM	XO22GF	1
26/04/2023 10:40 AM	XO47CZ	1
26/04/2023 10:44 AM	XO16LW	1
26/04/2023 10:49 AM	XN50SK	1
26/04/2023 11:07 AM	CP84TG	1
26/04/2023 11:26 AM	CP83TG	1
26/04/2023 11:29 AM	AB80LV	1
26/04/2023 11:37 AM	XO16LW	1
26/04/2023 12:07 PM	XO72KV	1
26/04/2023 2:14 PM	XO47CZ	1
26/04/2023 2:16 PM	XO22GF	1
27/04/2023 7:22 AM	XN50SK	1
27/04/2023 7:41 AM	XS40EX	1

27/04/2023 7:44 AM	CP83TG	1
27/04/2023 8:21 AM	XO07HY	1
27/04/2023 8:23 AM	XN73UT	1
27/04/2023 8:25 AM	XO16LW	1
27/04/2023 8:26 AM	XN30BP	1
27/04/2023 8:28 AM	XN08ZO	1
27/04/2023 8:30 AM	XO66CP	1
27/04/2023 9:22 AM	XO07HY	1
27/04/2023 9:29 AM	CP83TG	1
27/04/2023 9:30 AM	XN73UT	1
27/04/2023 9:37 AM	XN30BP	1
27/04/2023 9:45 AM	XN08ZO	1
27/04/2023 9:53 AM	XO42GF	1
27/04/2023 9:55 AM	XO66CP	1
27/04/2023 10:02 AM	XO16LW	1
27/04/2023 10:13 AM	XN50SK	1
27/04/2023 10:14 AM	XO22GF	1
27/04/2023 10:18 AM	CP83TG	1
27/04/2023 10:19 AM	XO47CZ	1
27/04/2023 10:47 AM	XO07HY	1
27/04/2023 10:49 AM	XS40EX	1
27/04/2023 10:50 AM	XN73UT	1
27/04/2023 10:54 AM	XO42GF	1
27/04/2023 10:55 AM	CP83TG	1
27/04/2023 10:57 AM	XO16LW	2
27/04/2023 11:00 AM	XN08ZO	1
27/04/2023 11:08 AM	XN50SK	1
27/04/2023 11:09 AM	XO22GF	1
27/04/2023 11:11 AM	XO66CP	1
27/04/2023 11:26 AM	CP84TG	1
27/04/2023 11:30 AM	XO47CZ	1

27/04/2023 11:54 AM	XO16LW	1			
27/04/2023 11:58 AM	XN50SK	1			
27/04/2023 12:01 PM	XO07HY	1			
27/04/2023 12:05 PM	XN73UT	1			
27/04/2023 12:56 PM	CP83TG	1			
27/04/2023 1:11 PM	XO42GF	1			
27/04/2023 1:16 PM	CP84TG	1			
27/04/2023 1:18 PM	XO22GF	1			
27/04/2023 1:57 PM	XO16LW	1			
27/04/2023 1:59 PM	XO47CZ	1			
27/04/2023 2:05 PM	XO42GF	1			
27/04/2023 2:22 PM	CP84TG	1			
27/04/2023 2:25 PM	XN50SK	1			
28/04/2023 9:56 AM	XO42EW	1			
28/04/2023 11:16 AM	XS40EX	1			
1/05/2023 7:20 AM	XN50SK	1	1/05/2023 8:49 AM	XO33OJ	1
1/05/2023 7:24 AM	CP83TG	1	1/05/2023 8:55 AM	XO44HG	1
1/05/2023 7:28 AM	CP84TG	1	1/05/2023 9:17 AM	XN94WC	1
1/05/2023 7:29 AM	XO22GF	1	1/05/2023 9:24 AM	XQ95KJ	1
1/05/2023 7:45 AM	XO00NB	1	1/05/2023 10:03 AM	BL23XK	1
1/05/2023 8:23 AM	XO47CZ	1	1/05/2023 10:10 AM	XO91FD	1
1/05/2023 8:30 AM	XO43EW	1	1/05/2023 10:20 AM	XO67AJ	1
1/05/2023 8:58 AM	XO22GF	1	1/05/2023 10:34 AM	XO51BT	1
1/05/2023 9:22 AM	XO00NB	1	1/05/2023 10:56 AM	XO51CZ	1
1/05/2023 9:59 AM	XO47CZ	1	1/05/2023 10:58 AM	XO44HG	1
1/05/2023 10:05 AM	XO42EW	1	1/05/2023 11:18 AM	XN35OR	1
1/05/2023 10:15 AM	XN50SK	1	1/05/2023 11:35 AM	XN86OK	1
1/05/2023 10:21 AM	CP83TG	1	1/05/2023 11:37 AM	XQ95KJ	1
1/05/2023 10:26 AM	CP84TG	1	1/05/2023 11:51 AM	BI88CH	1
1/05/2023 10:39 AM	XO63PW	1	1/05/2023 12:04 PM	XN08ZO	1
1/05/2023 10:40 AM	XO47CZ	1	1/05/2023 12:18 PM	XN22OO	1

1/05/2023 10:57 AM	XO22GF	1	1/05/2023 12:44 PM	CP23QH	1
1/05/2023 11:02 AM	XN50SK	1	1/05/2023 12:50 PM	XO77FK	1
1/05/2023 11:14 AM	CP83TG	1	1/05/2023 1:19 PM	CK38WU	1
1/05/2023 11:20 AM	XO00NB	1	1/05/2023 1:35 PM	BL23XK	1
1/05/2023 11:28 AM	XO47CZ	1	1/05/2023 1:47 PM	XO51BT	1
1/05/2023 11:29 AM	CP84TG	1	1/05/2023 2:01 PM	XO67AJ	1
1/05/2023 11:33 AM	XS40EX	1	1/05/2023 2:25 PM	XO51CZ	1
1/05/2023 11:53 AM	XN50SK	1	1/05/2023 2:42 PM	XN35OR	1
1/05/2023 12:49 PM	XO07HY	1	1/05/2023 2:55 PM	BI88CH	1
1/05/2023 12:55 PM	XN73UT	1	1/05/2023 3:11 PM	XN08ZO	1
1/05/2023 1:00 PM	XO69JE	1	1/05/2023 3:29 PM	XN22OO	1
1/05/2023 1:02 PM	XO00NB	1	1/05/2023 3:44 PM	CP23QH	1
1/05/2023 1:06 PM	XO23GF	1	1/05/2023 4:01 PM	XO77FK	1
1/05/2023 1:07 PM	XO22GF	1	2/05/2023 7:35 AM	XO33OJ	1
1/05/2023 1:12 PM	CP83TG	1	2/05/2023 7:39 AM	XQ95KJ	1
1/05/2023 1:20 PM	XO43EW	1	2/05/2023 7:42 AM	XO44HG	1
1/05/2023 1:31 PM	CP84TG	1	2/05/2023 7:49 AM	XN94WC	1
1/05/2023 1:34 PM	XO47CZ	1	2/05/2023 8:05 AM	BL23XK	1
1/05/2023 1:39 PM	XO57HG	1	2/05/2023 8:19 AM	XO51BT	1
1/05/2023 1:48 PM	XN50SK	1	2/05/2023 8:37 AM	XO67AJ	1
1/05/2023 1:52 PM	XS40EX	1	2/05/2023 8:57 AM	XO51CZ	1
1/05/2023 2:08 PM	XO07HY	1	2/05/2023 9:14 AM	XN35OR	1
1/05/2023 2:10 PM	XN73UT	1	2/05/2023 9:42 AM	CK38WU	1
1/05/2023 2:11 PM	XO23GF	1	2/05/2023 9:50 AM	XO44HG	1
1/05/2023 2:13 PM	XO69JE	1	2/05/2023 9:52 AM	XQ95KJ	1
1/05/2023 2:15 PM	CP83TG	1	2/05/2023 10:06 AM	BI88CH	1
1/05/2023 2:44 PM	XO00NB	1	2/05/2023 10:33 AM	XN08ZO	1
1/05/2023 3:03 PM	CP83TG	1	2/05/2023 10:35 AM	XN22OO	1
1/05/2023 3:06 PM	CP84TG	1	2/05/2023 10:50 AM	CP23QH	1
1/05/2023 3:08 PM	XN73UT	1	2/05/2023 11:06 AM	XO77FK	1
1/05/2023 3:09 PM	XO23GF	1	2/05/2023 11:50 AM	BL23XK	1

1/05/2023 3:27 PM	XO69JE	1	2/05/2023 11:53 AM	XO33OJ	1
2/05/2023 7:17 AM	XO00NB	1	2/05/2023 11:58 AM	XQ95KJ	1
2/05/2023 7:22 AM	XN50SK	1	2/05/2023 12:11 PM	XO51BT	1
2/05/2023 7:27 AM	CP83TG	1	2/05/2023 12:28 PM	XO67AJ	1
2/05/2023 7:33 AM	XO63PW	1	2/05/2023 12:50 PM	XO51CZ	1
2/05/2023 7:36 AM	XO42EW	1	2/05/2023 1:06 PM	XN35OR	1
2/05/2023 7:52 AM	XO69JE	1	2/05/2023 1:20 PM	BI88CH	1
2/05/2023 8:03 AM	XN73UT	1	2/05/2023 1:24 PM	XN26TQ	1
2/05/2023 8:07 AM	XO57HG	1	2/05/2023 1:36 PM	XN08ZO	1
2/05/2023 8:10 AM	XO07HY	1	2/05/2023 1:57 PM	BL23XK	1
2/05/2023 8:14 AM	XN30BP	1	2/05/2023 2:06 PM	XN22OO	1
2/05/2023 8:15 AM	XS40EX	1	2/05/2023 2:19 PM	CP23QH	1
2/05/2023 8:44 AM	XO43EW	1	3/05/2023 7:32 AM	XO33OJ	1
2/05/2023 9:07 AM	XN50SK	1	3/05/2023 7:36 AM	XO44HG	1
2/05/2023 9:11 AM	XO00NB	1	3/05/2023 7:43 AM	XQ680J	1
2/05/2023 9:13 AM	XO69JE	1	3/05/2023 7:45 AM	XQ95KJ	1
2/05/2023 9:28 AM	CP83TG	1	3/05/2023 7:47 AM	XN94WC	1
2/05/2023 10:22 AM	XO47CZ	1	3/05/2023 7:51 AM	XN30AO	1
2/05/2023 10:40 AM	XO43EW	1	3/05/2023 8:04 AM	XO52BT	1
2/05/2023 10:44 AM	XN50SK	1	3/05/2023 8:19 AM	BL23XK	1
2/05/2023 11:02 AM	XO00NB	1	3/05/2023 8:30 AM	XO67AJ	1
2/05/2023 11:05 AM	CP83TG	1	3/05/2023 8:46 AM	XN35OR	1
2/05/2023 11:31 AM	XO07HY	1	3/05/2023 8:59 AM	BI88CH	1
2/05/2023 11:33 AM	XN73UT	1	3/05/2023 9:22 AM	XO51CZ	1
2/05/2023 11:34 AM	XS40EX	1	3/05/2023 9:25 AM	XO44HG	1
2/05/2023 11:55 AM	XN30BP	1	3/05/2023 9:42 AM	XO77FK	1
2/05/2023 12:02 PM	XO66CP	1	3/05/2023 9:56 AM	XN08ZO	1
2/05/2023 12:07 PM	XO69JE	1	3/05/2023 10:11 AM	XN22OO	1
2/05/2023 12:42 PM	XO07HY	1	3/05/2023 10:29 AM	CP23QH	1
2/05/2023 12:45 PM	XN73UT	1	3/05/2023 10:44 AM	XQ680J	1
2/05/2023 12:47 PM	XN50SK	1	3/05/2023 10:53 AM	CK38WU	1

2/05/2023 12:49 PM	XO43EW	1	3/05/2023 11:12 AM	XO33OJ	1
2/05/2023 12:57 PM	XN30BP	1	3/05/2023 11:30 AM	XQ95KJ	1
2/05/2023 1:12 PM	XO47CZ	1	3/05/2023 12:14 PM	XO52BT	1
2/05/2023 1:13 PM	XO66CP	1	3/05/2023 12:24 PM	XO67AJ	1
2/05/2023 1:19 PM	XO69JE	1	3/05/2023 12:37 PM	BL23XK	1
2/05/2023 1:38 PM	XO07HY	1	3/05/2023 12:48 PM	XN35OR	1
2/05/2023 1:44 PM	XN73UT	1	3/05/2023 12:57 PM	XO51CZ	1
2/05/2023 1:53 PM	XO63PW	1	3/05/2023 1:09 PM	BI88CH	1
2/05/2023 2:26 PM	XN30BP	1	3/05/2023 1:24 PM	XO77FK	1
2/05/2023 2:33 PM	XO42EW	1	3/05/2023 1:40 PM	XN08ZO	1
2/05/2023 2:36 PM	XO69JE	1	3/05/2023 1:48 PM	XN22OO	1
2/05/2023 2:39 PM	XO07HY	1	3/05/2023 2:08 PM	CP23QH	1
2/05/2023 3:28 PM	XN30BP	1	3/05/2023 2:31 PM	CK38WU	1
2/05/2023 3:30 PM	XN73UT	1	4/05/2023 7:40 AM	XO33OJ	1
2/05/2023 3:31 PM	XO69JE	1	4/05/2023 7:43 AM	XO44HG	1
2/05/2023 3:37 PM	XO07HY	1	4/05/2023 8:07 AM	XN94WC	1
3/05/2023 7:25 AM	XO57HG	1	4/05/2023 8:08 AM	XO52BT	1
3/05/2023 7:34 AM	XO43EW	1	4/05/2023 8:14 AM	XQ95KJ	1
3/05/2023 8:01 AM	XO00NB	1	4/05/2023 8:29 AM	BL23XK	1
3/05/2023 8:18 AM	XO57HG	1	4/05/2023 8:44 AM	XO67AJ	1
3/05/2023 8:23 AM	XO47CZ	1	4/05/2023 8:58 AM	XN35OR	1
3/05/2023 8:27 AM	AK66GS	1	4/05/2023 9:12 AM	BI88CH	1
3/05/2023 9:14 AM	AK66GS	1	4/05/2023 9:29 AM	XO51BT	1
3/05/2023 9:37 AM	XO43EW	1	4/05/2023 9:32 AM	XO44HG	1
3/05/2023 10:02 AM	AK66GS	1	4/05/2023 9:57 AM	XO51CZ	1
3/05/2023 10:16 AM	XS40EX	1	4/05/2023 10:12 AM	XO77FK	1
3/05/2023 10:22 AM	XO00NB	1	4/05/2023 10:19 AM	XO33OJ	1
3/05/2023 10:31 AM	XO42EW	1	4/05/2023 10:39 AM	XN08ZO	1
3/05/2023 10:33 AM	XO47CZ	1	4/05/2023 10:51 AM	CP23QH	1
3/05/2023 10:41 AM	AK66GS	1	4/05/2023 11:18 AM	CK38WU	1
3/05/2023 11:18 AM	AK66GS	1	4/05/2023 11:23 AM	XQ95KJ	1

3/05/2023 11:37 AM	XO42EW	1	4/05/2023 12:05 PM	XO33OJ	1
3/05/2023 11:46 AM	XO00NB	1	4/05/2023 12:11 PM	XO52BT	1
3/05/2023 12:38 PM	AK66GS	1	4/05/2023 12:25 PM	XO67AJ	1
3/05/2023 1:01 PM	XO00NB	1	4/05/2023 12:39 PM	BL23XK	1
3/05/2023 1:12 PM	XS40EX	1	4/05/2023 12:43 PM	XN35OR	1
3/05/2023 1:23 PM	XO47CZ	1	4/05/2023 1:06 PM	BI88CH	1
3/05/2023 2:26 PM	XO00NB	1	4/05/2023 1:38 PM	XO51BT	1
3/05/2023 2:35 PM	AK66GS	1	4/05/2023 1:40 PM	XO51CZ	1
3/05/2023 3:17 PM	AK66GS	1	4/05/2023 2:35 PM	XO77FK	1
4/05/2023 7:15 AM	XO42EW	1	5/05/2023 7:37 AM	XO33OJ	1
4/05/2023 7:34 AM	XO00NB	1	5/05/2023 7:40 AM	XO44HG	1
4/05/2023 7:38 AM	AK66GS	1	5/05/2023 7:45 AM	XN94WC	1
4/05/2023 9:33 AM	XN50SK	1	5/05/2023 7:50 AM	XQ680J	1
4/05/2023 9:54 AM	CP83TG	1	5/05/2023 7:58 AM	XQ95KJ	1
4/05/2023 10:34 AM	XO00NB	1	5/05/2023 8:11 AM	XO52BT	1
4/05/2023 11:02 AM	XN50SK	1	5/05/2023 8:28 AM	BL23XK	1
4/05/2023 11:19 AM	CP83TG	1	5/05/2023 8:39 AM	XO67AJ	1
4/05/2023 1:03 PM	XO00NB	1	5/05/2023 8:48 AM	AW95CU	1
4/05/2023 1:10 PM	XN82TZ	1	5/05/2023 8:58 AM	XN35OR	1
4/05/2023 1:32 PM	CP83TG	1	5/05/2023 9:11 AM	BI88CH	1
4/05/2023 2:11 PM	XO07HY	1	5/05/2023 9:23 AM	XN08ZO	1
4/05/2023 3:29 PM	XN30BP	1	5/05/2023 9:36 AM	CP23QH	1
4/05/2023 3:30 PM	XO69JE	1	5/05/2023 9:42 AM	XO33OJ	1
4/05/2023 3:32 PM	XO07HY	1	5/05/2023 10:26 AM	XO12GO	1
5/05/2023 7:42 AM	XO00NB	1	5/05/2023 11:53 AM	XQ95KJ	1
5/05/2023 7:49 AM	XO69JE	1	5/05/2023 12:27 PM	XQ680J	1
5/05/2023 7:51 AM	XO07HY	1	8/05/2023 7:23 AM	XQ95KJ	1
5/05/2023 7:53 AM	XN30BP	1	8/05/2023 7:47 AM	XO52BT	1
5/05/2023 7:56 AM	XO82MQ	1	8/05/2023 7:56 AM	CI79PF	1
5/05/2023 8:04 AM	XN50SK	1	8/05/2023 7:59 AM	XO67AJ	1
5/05/2023 8:05 AM	CP84TG	1	8/05/2023 8:17 AM	XO51CZ	1

5/05/2023 8:41 AM	CP83TG	1	8/05/2023 8:30 AM	BI88CH	1
5/05/2023 9:40 AM	XN50SK	1	8/05/2023 8:57 AM	XO78KV	1
5/05/2023 9:51 AM	CP84TG	1	8/05/2023 8:58 AM	XO51BT	1
5/05/2023 10:14 AM	CP83TG	1	8/05/2023 9:09 AM	XN08ZO	1
5/05/2023 10:33 AM	XO69JE	1	8/05/2023 9:37 AM	CP23QH	1
5/05/2023 10:44 AM	XO07HY	1	8/05/2023 9:39 AM	XN22OO	1
5/05/2023 11:09 AM	XN50SK	1	8/05/2023 10:04 AM	CK38WU	1
5/05/2023 11:15 AM	XO00NB	1	8/05/2023 10:19 AM	XO52BT	1
5/05/2023 11:22 AM	CP83TG	1	8/05/2023 10:35 AM	XO67AJ	1
5/05/2023 11:26 AM	CP84TG	1	8/05/2023 11:09 AM	XO51CZ	1
5/05/2023 11:32 AM	XN30BP	1	8/05/2023 11:13 AM	BI88CH	1
5/05/2023 11:46 AM	XO69JE	1	8/05/2023 11:24 AM	XN35OR	1
5/05/2023 12:53 PM	XO07HY	1	8/05/2023 11:41 AM	XO78KV	1
5/05/2023 1:02 PM	CP83TG	1	8/05/2023 11:55 AM	XO51BT	1
5/05/2023 1:13 PM	XO69JE	1	8/05/2023 12:14 PM	XN08ZO	1
5/05/2023 1:55 PM	CP83TG	1	8/05/2023 12:53 PM	CP23QH	1
5/05/2023 2:00 PM	XN30BP	1	8/05/2023 1:06 PM	XN22OO	1
5/05/2023 2:05 PM	CP84TG	1	8/05/2023 1:51 PM	XO52BT	1
5/05/2023 2:15 PM	XN73UT	1	8/05/2023 2:07 PM	XO67AJ	1
5/05/2023 2:24 PM	XO69JE	1	8/05/2023 2:25 PM	XO51CZ	1
5/05/2023 2:45 PM	XO07HY	1	8/05/2023 2:28 PM	XN35OR	1
8/05/2023 7:35 AM	XO00NB	1	9/05/2023 7:12 AM	XO52BT	1
8/05/2023 9:22 AM	XO00NB	1	9/05/2023 7:20 AM	XO33OJ	1
8/05/2023 10:14 AM	XO69JE	1	9/05/2023 7:26 AM	XO44HG	1
8/05/2023 10:17 AM	XO23GF	1	9/05/2023 7:29 AM	XQ95KJ	1
8/05/2023 11:38 AM	XO69JE	1	9/05/2023 7:41 AM	XN94WC	1
8/05/2023 11:40 AM	XO23GF	1	9/05/2023 7:44 AM	CI79PF	1
8/05/2023 11:42 AM	XO07HY	1	9/05/2023 7:47 AM	XO51BT	1
8/05/2023 12:42 PM	XO69JE	1	9/05/2023 8:10 AM	XO67AJ	1
8/05/2023 12:45 PM	XO23GF	1	9/05/2023 8:20 AM	XO51CZ	1
8/05/2023 12:48 PM	XO07HY	1	9/05/2023 8:35 AM	BI88CH	1

8/05/2023 2:16 PM	XO14JX	1	9/05/2023 8:45 AM	XO78KV	1
8/05/2023 2:27 PM	XO69JE	1	9/05/2023 8:59 AM	XN22OO	1
8/05/2023 2:30 PM	XO23GF	1	9/05/2023 9:13 AM	XN08ZO	1
8/05/2023 2:36 PM	XO07HY	1	9/05/2023 9:30 AM	CP23QH	1
8/05/2023 2:40 PM	XO07HY	1	9/05/2023 9:39 AM	XN35OR	1
9/05/2023 7:18 AM	CP84TG	1	9/05/2023 10:22 AM	XO33OJ	1
9/05/2023 7:23 AM	XN50SK	1	9/05/2023 10:49 AM	XO52BT	1
9/05/2023 7:28 AM	XO43EW	1	9/05/2023 11:11 AM	XO44HG	1
9/05/2023 7:39 AM	XO69JE	1	9/05/2023 11:52 AM	XO51BT	1
9/05/2023 7:42 AM	XO07HY	1	9/05/2023 11:53 AM	XO67AJ	1
9/05/2023 8:23 AM	XO84KV	1	9/05/2023 12:15 PM	XO51CZ	1
9/05/2023 8:33 AM	CP84TG	1	9/05/2023 12:22 PM	BI88CH	1
9/05/2023 8:38 AM	XN50SK	2	9/05/2023 12:36 PM	XO78KV	1
9/05/2023 9:32 AM	XO49HG	1	9/05/2023 1:01 PM	XO33OJ	1
9/05/2023 9:33 AM	XO69JE	1	9/05/2023 1:02 PM	XN08ZO	1
9/05/2023 9:35 AM	XO63PW	1	9/05/2023 1:07 PM	XN22OO	1
9/05/2023 9:57 AM	XO07HY	1	9/05/2023 1:23 PM	CP23QH	1
9/05/2023 10:18 AM	CP84TG	1	9/05/2023 1:28 PM	XN35OR	1
9/05/2023 10:20 AM	XN50SK	1	9/05/2023 2:12 PM	XO52BT	1
9/05/2023 10:21 AM	XO43EW	1	9/05/2023 2:18 PM	XO67AJ	1
9/05/2023 10:42 AM	XS40EX	1	9/05/2023 2:46 PM	XO51BT	1
9/05/2023 11:07 AM	XO07HY	1	9/05/2023 3:07 PM	XO51CZ	1
9/05/2023 11:36 AM	XO43EW	1	9/05/2023 3:16 PM	XO78KV	1
9/05/2023 11:39 AM	CP84TG	1	9/05/2023 3:20 PM	BI88CH	1
9/05/2023 11:47 AM	XO69JE	1	10/05/2023 7:27 AM	CP85HJ	1
9/05/2023 12:38 PM	XO07HY	1	10/05/2023 7:34 AM	XQ95KJ	1
9/05/2023 12:58 PM	XO69JE	1	10/05/2023 7:36 AM	XN94WC	1
9/05/2023 1:17 PM	XO63PW	1	10/05/2023 7:37 AM	XO33OJ	1
9/05/2023 3:10 PM	XO07HY	1	10/05/2023 7:54 AM	XO51BT	1
9/05/2023 3:13 PM	XO69JE	1	10/05/2023 8:11 AM	CI79PF	1
10/05/2023 7:14 AM	XO49HG	1	10/05/2023 8:14 AM	XO52BT	1

10/05/2023 7:44 AM	CP60LI	1	10/05/2023 8:33 AM	XO66KV	1
10/05/2023 7:51 AM	XO57HG	1	10/05/2023 8:43 AM	XO67AJ	1
10/05/2023 8:45 AM	XO49HG	1	10/05/2023 8:59 AM	XN08ZO	1
10/05/2023 8:53 AM	CP60LI	1	10/05/2023 9:14 AM	XO51CZ	1
10/05/2023 10:07 AM	CP60LI	1	10/05/2023 10:36 AM	XQ95KJ	1
10/05/2023 10:22 AM	XO57HG	1	10/05/2023 10:45 AM	XO33OJ	1
10/05/2023 12:28 PM	XO63PW	1	10/05/2023 12:12 PM	XO51BT	1
10/05/2023 1:03 PM	XO49HG	1	10/05/2023 12:15 PM	XQ95KJ	1
10/05/2023 1:13 PM	XS40EX	1	10/05/2023 12:34 PM	XO66KV	1
10/05/2023 1:55 PM	XN89RF	1	10/05/2023 12:58 PM	CI79PF	1
10/05/2023 2:16 PM	XS40EX	1	11/05/2023 7:21 AM	CI79PF	1
10/05/2023 3:39 PM	XN89RF	1	11/05/2023 7:27 AM	XQ95KJ	1
10/05/2023 3:52 PM	XO49HG	1	11/05/2023 7:41 AM	XO33OJ	1
11/05/2023 7:24 AM	CP83TG	1	11/05/2023 7:42 AM	XO44HG	1
11/05/2023 7:25 AM	XO57HG	1	11/05/2023 8:03 AM	XO52BT	1
11/05/2023 7:32 AM	CP84TG	1	11/05/2023 8:16 AM	BI88CH	1
11/05/2023 8:35 AM	XO57HG	1	11/05/2023 8:32 AM	XO51CZ	1
11/05/2023 8:40 AM	CP83TG	1	11/05/2023 8:55 AM	XO77FK	1
11/05/2023 8:58 AM	XO63PW	1	11/05/2023 10:25 AM	XO33OJ	1
11/05/2023 9:31 AM	CP84TG	1	11/05/2023 10:34 AM	XO44HG	1
11/05/2023 9:54 AM	XO72KV	1	11/05/2023 10:39 AM	XO35NB	1
11/05/2023 10:07 AM	XN50SK	1	11/05/2023 10:44 AM	CP23QH	1
11/05/2023 10:20 AM	CP83TG	1	11/05/2023 11:02 AM	XN35OR	1
11/05/2023 10:37 AM	CP84TG	1	11/05/2023 11:03 AM	XN08ZO	1
11/05/2023 10:40 AM	XO57HG	1	11/05/2023 11:35 AM	XO51BT	1
11/05/2023 11:10 AM	XN50SK	1	11/05/2023 11:39 AM	XO33OJ	1
11/05/2023 11:46 AM	XO72KV	1	11/05/2023 11:50 AM	XQ95KJ	1
11/05/2023 12:45 PM	XO66CP	1	11/05/2023 12:03 PM	XO52BT	1
11/05/2023 2:52 PM	CP83TG	1	11/05/2023 12:12 PM	XO67AJ	1
11/05/2023 2:56 PM	CP84TG	1	11/05/2023 12:25 PM	BI88CH	1
12/05/2023 7:37 AM	XN50SK	1	11/05/2023 12:42 PM	XO44HG	1

12/05/2023 8:29 AM	CP83TG	1	12/05/2023 8:35 AM	XO52BT	1
12/05/2023 8:32 AM	CP84TG	1	12/05/2023 8:52 AM	BI88CH	1
12/05/2023 8:58 AM	XN50SK	1	12/05/2023 9:07 AM	XO51CZ	1
12/05/2023 9:04 AM	XO63PW	1	12/05/2023 9:20 AM	XO77FK	1
12/05/2023 9:18 AM	XO57HG	1	12/05/2023 11:27 AM	XO52BT	1
12/05/2023 10:21 AM	CP83TG	1	12/05/2023 11:38 AM	BI88CH	1
12/05/2023 10:26 AM	CP84TG	1	12/05/2023 12:00 PM	XN35OR	1
12/05/2023 10:32 AM	XO43EW	1	12/05/2023 12:17 PM	XO51BT	1
12/05/2023 10:36 AM	XN50SK	1	12/05/2023 1:25 PM	XO07HY	1
12/05/2023 11:28 AM	CP83TG	1	13/05/2023 9:34 AM	XO51BT	1
12/05/2023 11:31 AM	CP84TG	1	13/05/2023 9:48 AM	XO52BT	1
12/05/2023 11:35 AM	XO43EW	1	13/05/2023 10:03 AM	XN35OR	1
12/05/2023 12:05 PM	XN50SK	1	13/05/2023 10:14 AM	CP60LI	1
12/05/2023 3:22 PM	XO84KV	1	13/05/2023 10:27 AM	XN08ZO	1
15/05/2023 8:22 AM	XS40EX	1	13/05/2023 10:39 AM	CP23QH	1
16/05/2023 7:24 AM	XO49HG	1	13/05/2023 10:50 AM	XO07HY	1
16/05/2023 8:07 AM	XO49HG	1	13/05/2023 12:06 PM	XO67AJ	1
16/05/2023 8:43 AM	XO49HG	1	13/05/2023 12:46 PM	XO52BT	1
16/05/2023 9:15 AM	XO49HG	1	13/05/2023 12:51 PM	XN35OR	1
16/05/2023 9:45 AM	XO49HG	1	13/05/2023 12:54 PM	CP60LI	1
17/05/2023 7:37 AM	XO43EW	1	13/05/2023 1:25 PM	XN08ZO	1
17/05/2023 7:43 AM	XN50SK	1	13/05/2023 1:35 PM	CP23QH	1
17/05/2023 7:46 AM	CP84TG	1	13/05/2023 1:48 PM	XO51BT	1
17/05/2023 7:48 AM	XO26GF	1	15/05/2023 7:25 AM	XQ95KJ	1
17/05/2023 8:58 AM	CP84TG	1	17/05/2023 7:26 AM	CI79PF	1
17/05/2023 9:26 AM	XO63PW	1	17/05/2023 7:40 AM	881LIQ	1
17/05/2023 9:32 AM	XO43EW	1	17/05/2023 7:45 AM	XQ95KJ	1
17/05/2023 9:36 AM	XN50SK	1	17/05/2023 7:53 AM	XQ680J	1
17/05/2023 9:43 AM	XO26GF	1	17/05/2023 8:01 AM	XO52BT	1
17/05/2023 10:03 AM	CP83TG	1	17/05/2023 8:18 AM	XO67AJ	1
17/05/2023 10:46 AM	XO43EW	1	17/05/2023 8:44 AM	XO51CZ	1

17/05/2023 10:50 AM	XO26GF	1	17/05/2023 9:01 AM	XN35OR	1
17/05/2023 11:23 AM	CP83TG	1	17/05/2023 9:16 AM	XO07HY	1
17/05/2023 11:49 AM	XO63PW	1	17/05/2023 9:34 AM	CP23QH	1
17/05/2023 12:46 PM	XO26GF	1	17/05/2023 11:17 AM	XQ680J	1
17/05/2023 12:49 PM	XO43EW	1	17/05/2023 11:27 AM	XO52BT	1
17/05/2023 12:53 PM	CP84TG	1	17/05/2023 11:46 AM	XO67AJ	1
17/05/2023 12:57 PM	XN50SK	1	18/05/2023 7:26 AM	XO52BT	1
17/05/2023 1:15 PM	CP83TG	1	18/05/2023 7:36 AM	XQ95KJ	1
17/05/2023 2:29 PM	XO26GF	1	18/05/2023 7:48 AM	XO51BT	1
17/05/2023 2:36 PM	XO43EW	1	18/05/2023 7:49 AM	XN94WC	1
17/05/2023 2:39 PM	CG20RC	1	18/05/2023 7:56 AM	XO33OJ	1
17/05/2023 2:43 PM	CP83TG	1	18/05/2023 8:15 AM	XO67AJ	1
18/05/2023 7:32 AM	XN50SK	1	18/05/2023 8:34 AM	XN35OR	1
18/05/2023 7:41 AM	CP84TG	1	18/05/2023 9:04 AM	XO51CZ	1
18/05/2023 8:20 AM	XO26GF	1	18/05/2023 9:20 AM	XN08ZO	1
18/05/2023 8:31 AM	XO69JE	1	18/05/2023 9:38 AM	BI88CH	1
18/05/2023 8:33 AM	XO07HY	1	18/05/2023 9:51 AM	CP23QH	1
18/05/2023 8:36 AM	CP83TG	1	18/05/2023 10:09 AM	XO52BT	1
18/05/2023 8:40 AM	XO43EW	1	18/05/2023 10:14 AM	XO33OJ	1
18/05/2023 8:45 AM	XN73UT	1	18/05/2023 10:34 AM	XO51BT	1
18/05/2023 8:47 AM	XN30BP	1	18/05/2023 10:35 AM	XQ95KJ	1
18/05/2023 8:55 AM	XN50SK	1	18/05/2023 10:53 AM	XO67AJ	1
18/05/2023 9:00 AM	CP84TG	1	18/05/2023 11:09 AM	XN35OR	1
18/05/2023 10:31 AM	XN50SK	1	18/05/2023 11:35 AM	XO51CZ	1
18/05/2023 10:36 AM	CP83TG	1	18/05/2023 11:43 AM	XN08ZO	1
18/05/2023 10:39 AM	XO43EW	1	18/05/2023 11:54 AM	XO52BT	1
18/05/2023 10:41 AM	XO26GF	1	18/05/2023 11:59 AM	XQ95KJ	1
18/05/2023 10:48 AM	CP84TG	1	18/05/2023 1:18 PM	XO51BT	1
18/05/2023 11:15 AM	XN30BP	1	18/05/2023 1:27 PM	XO52BT	1
18/05/2023 11:31 AM	XN73UT	1	19/05/2023 7:53 AM	XO52BT	1
18/05/2023 11:42 AM	XO07HY	1	19/05/2023 8:03 AM	XO33OJ	1

18/05/2023 11:52 AM	XN50SK	1	19/05/2023 8:06 AM	CI79PF	1
18/05/2023 12:00 PM	XO69JE	1	19/05/2023 8:12 AM	XN94WC	1
18/05/2023 12:42 PM	XN30BP	1	19/05/2023 8:33 AM	XO51BT	1
18/05/2023 12:44 PM	XN73UT	1	19/05/2023 8:55 AM	XO67AJ	1
18/05/2023 12:45 PM	XO07HY	1	19/05/2023 9:19 AM	XN35OR	1
18/05/2023 12:47 PM	CP83TG	1	19/05/2023 11:08 AM	XO33OJ	1
18/05/2023 12:48 PM	XO43EW	1	21/05/2023 9:13 PM	XO51BT	1
18/05/2023 12:51 PM	XN20DC	1	21/05/2023 9:36 PM	XO51CZ	1
18/05/2023 12:53 PM	XO26GF	1	21/05/2023 9:52 PM	CP23QH	1
18/05/2023 1:01 PM	XO69JE	1	21/05/2023 10:04 PM	XN35OR	1
18/05/2023 1:12 PM	CP84TG	1	21/05/2023 10:21 PM	XO52BT	1
18/05/2023 1:47 PM	XO26GF	1	21/05/2023 10:49 PM	CK38WU	1
18/05/2023 2:27 PM	XO69JE	1	21/05/2023 11:04 PM	XO51BT	1
18/05/2023 2:32 PM	XO07HY	1	21/05/2023 11:22 PM	XO78KV	1
18/05/2023 2:45 PM	XN73UT	1	21/05/2023 11:35 PM	XO77FK	1
18/05/2023 2:56 PM	XN30BP	1	21/05/2023 11:48 PM	XO07HY	1
18/05/2023 3:29 PM	XO69JE	1	22/05/2023 12:01 AM	XN08ZO	1
18/05/2023 3:33 PM	XO07HY	1	22/05/2023 12:14 AM	XO16OJ	1
18/05/2023 3:46 PM	XN73UT	1	22/05/2023 12:29 AM	CP60LI	1
19/05/2023 7:28 AM	CG20RC	1	22/05/2023 12:44 AM	XO35HG	1
19/05/2023 8:26 AM	CP83TG	1	22/05/2023 1:02 AM	XN22OO	1
19/05/2023 8:37 AM	CP84TG	1	22/05/2023 1:10 AM	XO52BT	1
19/05/2023 8:47 AM	XN50SK	1	22/05/2023 1:35 AM	CK38WU	1
19/05/2023 8:52 AM	XS40EX	1	22/05/2023 1:47 AM	XO51BT	1
19/05/2023 8:57 AM	XO69JE	1	22/05/2023 8:23 AM	XQ95KJ	1
19/05/2023 9:02 AM	XN73UT	1	22/05/2023 8:24 PM	CK38WU	1
19/05/2023 9:05 AM	XO07HY	1	22/05/2023 8:37 PM	XO51BT	1
19/05/2023 9:10 AM	XN08ZO	1	22/05/2023 8:53 PM	CP23QH	1
19/05/2023 9:27 AM	XO26GF	1	22/05/2023 9:23 PM	XO51CZ	1
19/05/2023 9:53 AM	XO00NB	1	22/05/2023 9:57 PM	XN35OR	1
19/05/2023 9:54 AM	XO00NB	1	22/05/2023 10:29 PM	CP60LI	1

19/05/2023 10:00 AM	XO69JE	2	22/05/2023 11:11 PM	XO78KV	1
19/05/2023 10:13 AM	XO07HY	1	22/05/2023 11:15 PM	XO77FK	1
19/05/2023 10:18 AM	XN08ZO	1	22/05/2023 11:17 PM	XN22OO	1
19/05/2023 10:25 AM	CP83TG	1	22/05/2023 11:25 PM	XO07HY	1
19/05/2023 10:35 AM	CP84TG	1	22/05/2023 11:32 PM	XN08ZO	1
19/05/2023 10:40 AM	XO49HG	1	23/05/2023 12:40 AM	XO16OJ	1
19/05/2023 10:45 AM	XN50SK	1	23/05/2023 2:12 AM	CP23QH	1
19/05/2023 11:01 AM	XO69JE	1	23/05/2023 2:42 AM	XO51BT	1
19/05/2023 11:07 AM	XN73UT	1	23/05/2023 3:24 AM	XO16OJ	1
19/05/2023 11:16 AM	XS40EX	1	23/05/2023 7:55 AM	XO44HG	1
19/05/2023 11:19 AM	XO07HY	1	23/05/2023 8:09 AM	XQ95KJ	1
19/05/2023 11:23 AM	XN08ZO	1	23/05/2023 8:14 AM	XO33OJ	1
19/05/2023 11:41 AM	CP83TG	1	23/05/2023 8:24 AM	XN94WC	1
19/05/2023 12:04 PM	XO69JE	1	23/05/2023 8:55 AM	XO77FK	1
19/05/2023 12:07 PM	XN73UT	1	23/05/2023 11:54 AM	XO33OJ	1
19/05/2023 12:44 PM	XO07HY	1	23/05/2023 12:46 PM	XO44HG	1
19/05/2023 12:47 PM	XN08ZO	1	23/05/2023 11:18 PM	XO51BT	1
19/05/2023 12:58 PM	XO22GF	1	23/05/2023 11:24 PM	XO52BT	1
19/05/2023 1:08 PM	XS40EX	1	23/05/2023 11:26 PM	XO51CZ	1
19/05/2023 1:29 PM	XO49HG	1	23/05/2023 11:30 PM	XN35OR	1
19/05/2023 1:39 PM	XO69JE	1	23/05/2023 11:31 PM	CP23QH	1
19/05/2023 1:42 PM	XN73UT	1	23/05/2023 11:38 PM	CK38WU	1
19/05/2023 1:59 PM	XN08ZO	1	23/05/2023 11:45 PM	XO35NB	1
19/05/2023 2:24 PM	XO07HY	1	23/05/2023 11:57 PM	XN22OO	1
19/05/2023 2:33 PM	XO49HG	1	24/05/2023 12:12 AM	XN08ZO	1
19/05/2023 2:54 PM	XN73UT	1	24/05/2023 12:24 AM	XO92KB	1
19/05/2023 2:55 PM	XO69JE	1	24/05/2023 12:38 AM	XO78KV	1
19/05/2023 3:16 PM	XN08ZO	1	24/05/2023 12:54 AM	XO16OJ	1
19/05/2023 3:21 PM	XO07HY	1	24/05/2023 1:16 AM	XO51BT	1
22/05/2023 7:31 AM	XO43EW	1	24/05/2023 8:01 AM	XN94WC	1
22/05/2023 7:36 AM	CP83TG	1	24/05/2023 8:06 AM	XO44HG	1

22/05/2023 7:40 AM	CP84TG	1	24/05/2023 8:10 AM	XQ95KJ	1
22/05/2023 8:24 AM	XO69JE	1	24/05/2023 10:25 AM	XO44HG	1
22/05/2023 8:27 AM	XN73UT	1	24/05/2023 10:19 PM	CK38WU	1
22/05/2023 9:25 AM	XO69JE	1	24/05/2023 10:21 PM	XN35OR	1
22/05/2023 9:28 AM	XN73UT	1	24/05/2023 10:28 PM	CP23QH	1
22/05/2023 9:54 AM	CP83TG	1	24/05/2023 10:31 PM	XO51CZ	1
22/05/2023 10:09 AM	XO43EW	1	24/05/2023 10:32 PM	XO52BT	1
22/05/2023 10:13 AM	CP84TG	1	24/05/2023 10:36 PM	XO35NB	1
22/05/2023 10:58 AM	XO69JE	1	24/05/2023 10:45 PM	BL23XK	1
22/05/2023 11:06 AM	CP83TG	1	24/05/2023 10:55 PM	XO07HY	1
22/05/2023 11:21 AM	XO43EW	1	24/05/2023 11:06 PM	XO92KB	1
22/05/2023 11:27 AM	CP84TG	1	24/05/2023 11:20 PM	XN08ZO	1
22/05/2023 12:56 PM	CP83TG	1	25/05/2023 8:12 AM	XQ95KJ	1
22/05/2023 1:31 PM	XO43EW	1	25/05/2023 8:18 AM	CI79PF	1
22/05/2023 1:36 PM	CP84TG	1	25/05/2023 12:06 PM	XQ95KJ	1
23/05/2023 7:28 AM	XN50SK	1	25/05/2023 9:23 PM	CP23QH	1
23/05/2023 7:32 AM	CP83TG	1	25/05/2023 9:28 PM	BL23XK	1
23/05/2023 7:34 AM	XO43EW	1	25/05/2023 9:32 PM	XO52BT	1
23/05/2023 8:17 AM	XO69JE	1	25/05/2023 9:54 PM	XO51CZ	1
23/05/2023 8:18 AM	XN30BP	1	25/05/2023 10:10 PM	XN35OR	1
23/05/2023 8:37 AM	CP84TG	1	25/05/2023 10:25 PM	XO92KB	1
23/05/2023 9:29 AM	XO69JE	1	25/05/2023 10:53 PM	CK38WU	1
23/05/2023 9:34 AM	XN30BP	1	26/05/2023 8:14 AM	AV43YN	1
23/05/2023 9:48 AM	XN50SK	1	26/05/2023 8:14 PM	CK38WU	1
23/05/2023 9:53 AM	CP83TG	1	26/05/2023 8:31 PM	BL23XK	1
23/05/2023 9:58 AM	XO43EW	1	26/05/2023 8:42 PM	CP23QH	1
23/05/2023 10:03 AM	CP84TG	1	26/05/2023 8:59 PM	XN35OR	1
23/05/2023 10:58 AM	XO69JE	1	26/05/2023 9:15 PM	BL47DW	1
23/05/2023 11:04 AM	XN30BP	1	26/05/2023 9:31 PM	CP60LI	1
23/05/2023 11:19 AM	CP84TG	1	26/05/2023 9:40 PM	XN08ZO	1
23/05/2023 11:23 AM	XN50SK	1	26/05/2023 9:53 PM	XO07HY	1

23/05/2023 11:27 AM	CP83TG	1	26/05/2023 10:17 PM	XO16OJ	1
23/05/2023 11:31 AM	XO43EW	1	26/05/2023 10:27 PM	XO67AJ	1
23/05/2023 11:56 AM	XO69JE	1	26/05/2023 10:43 PM	CK38WU	1
23/05/2023 12:02 PM	XN30BP	1	26/05/2023 11:03 PM	BL23XK	1
23/05/2023 1:08 PM	XS40EX	1	26/05/2023 11:25 PM	CP23QH	1
23/05/2023 1:13 PM	CP84TG	1	26/05/2023 11:33 PM	XN35OR	1
23/05/2023 1:24 PM	CP83TG	1	26/05/2023 11:46 PM	BL47DW	1
23/05/2023 1:27 PM	XO43EW	1	28/05/2023 9:02 PM	CP23QH	1
23/05/2023 1:55 PM	XO69JE	1	28/05/2023 9:15 PM	XO16OJ	1
23/05/2023 1:59 PM	XN30BP	1	28/05/2023 9:37 PM	XO51CZ	1
24/05/2023 7:26 AM	CP83TG	1	28/05/2023 9:55 PM	XN35OR	1
24/05/2023 7:27 AM	XO43EW	1	28/05/2023 10:32 PM	CK38WU	1
24/05/2023 7:28 AM	XS40EX	1	28/05/2023 10:47 PM	BL23XK	1
24/05/2023 7:31 AM	XN50SK	1	28/05/2023 11:01 PM	XN08ZO	1
24/05/2023 7:33 AM	XO42GF	1	28/05/2023 11:15 PM	CP60LI	1
24/05/2023 7:37 AM	CP84TG	1	28/05/2023 11:30 PM	BL47DW	1
24/05/2023 7:41 AM	XO42EW	1	28/05/2023 11:45 PM	XO77FK	1
24/05/2023 7:50 AM	XO69JE	1	29/05/2023 12:00 AM	XO67AJ	1
24/05/2023 8:16 AM	XO57HG	1	29/05/2023 12:15 AM	CP23QH	1
24/05/2023 8:17 AM	AB80LV	1	29/05/2023 12:31 AM	XO16OJ	1
24/05/2023 8:47 AM	CP84TG	1	29/05/2023 12:54 AM	XO51CZ	1
24/05/2023 9:04 AM	XO69JE	1	29/05/2023 1:12 AM	XN35OR	1
24/05/2023 9:21 AM	CP83TG	1	29/05/2023 1:24 AM	BL23XK	1
24/05/2023 9:22 AM	XO43EW	1	29/05/2023 9:38 AM	XQ95KJ	1
24/05/2023 9:23 AM	XN50SK	1	29/05/2023 9:36 PM	CK38WU	1
24/05/2023 9:31 AM	XO42GF	1	29/05/2023 9:49 PM	CP23QH	1
24/05/2023 9:42 AM	AB80LV	1	29/05/2023 10:13 PM	XO51CZ	1
24/05/2023 10:00 AM	XO57HG	1	29/05/2023 10:31 PM	XO16OJ	1
24/05/2023 10:24 AM	XO23GF	1	29/05/2023 10:43 PM	XO52BT	1
24/05/2023 10:35 AM	XO00NB	1	29/05/2023 10:59 PM	XN35OR	1
24/05/2023 10:37 AM	636SDX	1	29/05/2023 11:15 PM	XO77FK	1

24/05/2023 10:38 AM	XS40EX	1	29/05/2023 11:30 PM	BL47DW	1
24/05/2023 10:39 AM	XO42EW	1	29/05/2023 11:46 PM	XO55HG	1
24/05/2023 10:40 AM	XO69JE	1	30/05/2023 12:00 AM	XN08ZO	1
24/05/2023 10:45 AM	CP84TG	1	30/05/2023 12:13 AM	BL23XK	1
24/05/2023 10:50 AM	CP83TG	1	30/05/2023 12:28 AM	XO67AJ	1
24/05/2023 10:55 AM	XO43EW	1	30/05/2023 12:59 AM	CK38WU	1
24/05/2023 10:59 AM	XN50SK	1	30/05/2023 1:16 AM	CP23QH	1
24/05/2023 11:40 AM	XO42GF	1	30/05/2023 1:37 AM	XO51CZ	1
24/05/2023 11:49 AM	AB80LV	1	30/05/2023 1:50 AM	XO16OJ	1
24/05/2023 12:46 PM	XO69JE	1	30/05/2023 2:07 AM	XO52BT	1
24/05/2023 12:48 PM	XO00NB	1	30/05/2023 2:21 AM	XN35OR	1
24/05/2023 1:12 PM	XO42GF	1	30/05/2023 2:35 AM	BL23XK	1
24/05/2023 1:30 PM	AB80LV	1	30/05/2023 8:13 AM	CI79PF	1
24/05/2023 1:43 PM	XO42EW	1	30/05/2023 8:25 AM	XQ95KJ	1
24/05/2023 2:27 PM	XO00NB	1	30/05/2023 11:55 PM	CP23QH	1
24/05/2023 2:33 PM	XO42GF	1	31/05/2023 12:17 AM	XO51CZ	1
24/05/2023 2:49 PM	AB80LV	1	31/05/2023 12:31 AM	XO16OJ	1
25/05/2023 7:21 AM	XO00NB	1	31/05/2023 12:51 AM	XO52BT	1
25/05/2023 7:34 AM	XO42GF	1	31/05/2023 1:04 AM	XN35OR	1
25/05/2023 7:38 AM	AB80LV	1	31/05/2023 1:36 AM	CK38WU	1
25/05/2023 7:52 AM	XO26GF	1	31/05/2023 1:50 AM	XO55HG	1
25/05/2023 8:17 AM	XO07HY	1	31/05/2023 2:05 AM	BL47DW	1
25/05/2023 9:09 AM	AB80LV	1	31/05/2023 2:20 AM	XO77FK	1
25/05/2023 9:27 AM	XO07HY	1	31/05/2023 2:35 AM	XN08ZO	1
25/05/2023 9:32 AM	XO00NB	1	31/05/2023 2:48 AM	BL23XK	1
25/05/2023 9:48 AM	XO26GF	1	31/05/2023 3:03 AM	XO67AJ	1
25/05/2023 10:41 AM	XN50SK	1	31/05/2023 3:20 AM	CP23QH	1
25/05/2023 10:45 AM	XO43EW	1	31/05/2023 3:37 AM	XO51CZ	1
25/05/2023 10:51 AM	XO42EW	1	31/05/2023 3:47 AM	XO52BT	1
25/05/2023 10:52 AM	AB80LV	1	31/05/2023 8:12 AM	XQ95KJ	1
25/05/2023 11:03 AM	XS40EX	1	31/05/2023 11:32 AM	XQ95KJ	1

25/05/2023 11:04 AM	XO07HY	1
25/05/2023 11:14 AM	XN82TZ	1
25/05/2023 11:49 AM	CP84TG	1
25/05/2023 11:57 AM	XO43EW	1
25/05/2023 12:08 PM	XO42GF	1
25/05/2023 12:18 PM	AB80LV	1
25/05/2023 12:31 PM	XN50SK	1
25/05/2023 12:32 PM	XO43EW	1
25/05/2023 12:34 PM	XO07HY	1
25/05/2023 12:40 PM	XN82TZ	1
25/05/2023 12:49 PM	XO00NB	1
25/05/2023 12:53 PM	XO69JE	1
25/05/2023 1:02 PM	XS40EX	1
25/05/2023 1:25 PM	XO42EW	1
25/05/2023 1:34 PM	CP84TG	1
25/05/2023 1:37 PM	XO42GF	1
25/05/2023 1:40 PM	XN50SK	1
25/05/2023 1:42 PM	XO43EW	1
25/05/2023 1:45 PM	AB80LV	1
25/05/2023 2:00 PM	XO07HY	1
25/05/2023 2:35 PM	XS40EX	1
25/05/2023 2:44 PM	XO00NB	1
25/05/2023 3:01 PM	XO42GF	1
25/05/2023 3:07 PM	XO07HY	1
25/05/2023 3:09 PM	AB80LV	1
26/05/2023 7:21 AM	XN50SK	1
26/05/2023 7:24 AM	XO00NB	1
26/05/2023 7:32 AM	XO42GF	1
26/05/2023 7:41 AM	AB80LV	1
26/05/2023 7:47 AM	XO42EW	1
26/05/2023 7:57 AM	XO07HY	1

26/05/2023 8:06 AM	XS40EX	1
26/05/2023 8:37 AM	XN50SK	1
26/05/2023 9:08 AM	XO42GF	1
26/05/2023 9:09 AM	XO07HY	1
26/05/2023 9:21 AM	XO00NB	1
26/05/2023 9:22 AM	AB80LV	1
26/05/2023 9:33 AM	XO42EW	1
26/05/2023 9:48 AM	XS40EX	1
26/05/2023 10:29 AM	XO42GF	1
26/05/2023 10:36 AM	AB80LV	1
26/05/2023 10:45 AM	XO07HY	1
26/05/2023 10:47 AM	XO42EW	1
26/05/2023 10:58 AM	XN82TZ	1
26/05/2023 11:05 AM	XS40EX	1
26/05/2023 11:14 AM	XO00NB	1
26/05/2023 11:38 AM	XN50SK	1
26/05/2023 11:42 AM	XO07HY	1
26/05/2023 11:50 AM	XO42GF	1
26/05/2023 11:53 AM	AB80LV	2
26/05/2023 12:52 PM	XS40EX	1
26/05/2023 1:04 PM	XO07HY	1
26/05/2023 1:19 PM	XO00NB	1
26/05/2023 1:44 PM	XO42GF	1
26/05/2023 1:47 PM	AB80LV	1
26/05/2023 2:26 PM	XO07HY	1
29/05/2023 7:34 AM	XN50SK	1
29/05/2023 7:35 AM	XS40EX	1
29/05/2023 7:40 AM	XO43EW	1
29/05/2023 7:44 AM	AB80LV	1
29/05/2023 7:48 AM	CP84TG	1
29/05/2023 7:50 AM	XO42GF	1

29/05/2023 8:19 AM	XO49HG	1
29/05/2023 8:21 AM	XO07HY	1
29/05/2023 8:32 AM	XN66UT	1
29/05/2023 9:07 AM	XS40EX	1
29/05/2023 9:26 AM	XO07HY	1
29/05/2023 9:29 AM	AB80LV	1
29/05/2023 9:34 AM	XO42GF	1
29/05/2023 9:36 AM	XN50SK	1
29/05/2023 10:07 AM	XO49HG	1
29/05/2023 10:23 AM	XO43EW	1
29/05/2023 10:28 AM	CP84TG	1
29/05/2023 10:34 AM	XN66UT	1
29/05/2023 10:42 AM	XS40EX	1
29/05/2023 10:59 AM	XO42GF	1
29/05/2023 11:02 AM	AB80LV	1
29/05/2023 11:07 AM	XO07HY	1
29/05/2023 11:31 AM	XO00NB	1
29/05/2023 11:33 AM	XN50SK	1
29/05/2023 11:35 AM	XO49HG	1
29/05/2023 11:58 AM	XN73UT	1
29/05/2023 12:01 PM	XO07HY	1
29/05/2023 12:46 PM	XO49HG	1
29/05/2023 12:55 PM	XO42GF	1
29/05/2023 12:59 PM	AB80LV	1
29/05/2023 1:08 PM	XN50SK	1
29/05/2023 1:48 PM	XO49HG	1
29/05/2023 2:13 PM	XO42GF	1
29/05/2023 2:17 PM	AB80LV	1
29/05/2023 2:31 PM	XO00NB	1
29/05/2023 2:50 PM	XO49HG	1
29/05/2023 2:54 PM	CP84TG	1

30/05/2023 7:17 AM	XO26GF	1
30/05/2023 7:23 AM	XO42GF	1
30/05/2023 7:39 AM	XO00NB	1
30/05/2023 7:46 AM	CP83TG	1
30/05/2023 7:48 AM	AB80LV	1
30/05/2023 7:51 AM	XO43EW	1
30/05/2023 7:54 AM	XO49HG	1
30/05/2023 8:39 AM	CP60LI	1
30/05/2023 8:41 AM	XO26GF	1
30/05/2023 9:00 AM	XO42GF	1
30/05/2023 9:12 AM	AB80LV	1
30/05/2023 9:28 AM	XO00NB	1
30/05/2023 9:36 AM	XO49HG	1
30/05/2023 10:18 AM	CP60LI	1
30/05/2023 10:23 AM	XO42GF	1
30/05/2023 10:29 AM	CP83TG	1
30/05/2023 10:31 AM	AB80LV	1
30/05/2023 10:32 AM	XO43EW	1
30/05/2023 10:40 AM	CP84TG	1
30/05/2023 10:44 AM	XO49HG	1
30/05/2023 10:46 AM	XO26GF	1
30/05/2023 11:05 AM	XO00NB	1
30/05/2023 11:38 AM	CP60LI	1
30/05/2023 11:49 AM	XO42GF	1
30/05/2023 11:55 AM	XO49HG	1
30/05/2023 11:58 AM	AB80LV	1
30/05/2023 1:00 PM	CP83TG	1
30/05/2023 1:04 PM	CP84TG	1
30/05/2023 1:11 PM	XO43EW	2
30/05/2023 1:17 PM	XO42GF	1
30/05/2023 1:19 PM	AB80LV	1

30/05/2023	XO22GF	1
1:34 PM		
30/05/2023	XS40EX	1
1:38 PM		
30/05/2023	XO42EW	1
1:40 PM		
30/05/2023	XO45HG	1
1:50 PM		
30/05/2023	XO00NB	1
2:13 PM		
30/05/2023	XS40EX	1
2:21 PM		
30/05/2023	XO42EW	1
2:23 PM		
30/05/2023	XO45HG	1
2:34 PM		
30/05/2023	XO22GF	1
2:39 PM		
30/05/2023	XO26GF	2
2:41 PM		
30/05/2023	AB80LV	1
2:56 PM		
30/05/2023	XO42GF	1
3:10 PM		
30/05/2023	CE34TZ	1
3:35 PM		
31/05/2023	AB80LV	1
7:18 AM		
31/05/2023	XO82MQ	1
7:23 AM		
31/05/2023	XO22GF	1
7:26 AM		
31/05/2023	XO42GF	1
7:27 AM		
31/05/2023	XN50SK	1
7:32 AM		
31/05/2023	CE34TZ	1
7:34 AM		
31/05/2023	XO43EW	1
7:39 AM		
31/05/2023	XO00NB	1
8:14 AM		
31/05/2023	CE34TZ	1
8:48 AM		
31/05/2023	AB80LV	1
8:56 AM		
31/05/2023	XO82MQ	1
8:57 AM		
31/05/2023	XO42GF	1
9:09 AM		
31/05/2023	BL79TZ	1
9:39 AM		
31/05/2023	XO00NB	1
9:46 AM		
31/05/2023	AB80LV	1
10:01 AM		
31/05/2023	XN50SK	1
10:07 AM		
31/05/2023	XO43EW	1
10:11 AM		
31/05/2023	XO82MQ	1
10:15 AM		

31/05/2023 10:28 AM	XO42GF	1
31/05/2023 11:02 AM	XO45HG	1
31/05/2023 11:15 AM	AB80LV	1
31/05/2023 11:17 AM	XO24AE	1
31/05/2023 11:26 AM	XO82MQ	1
31/05/2023 11:27 AM	XS40EX	1
31/05/2023 11:29 AM	XN08ZO	1
31/05/2023 11:34 AM	XN50SK	1
31/05/2023 11:37 AM	XO49HG	1
31/05/2023 11:39 AM	XO43EW	1
31/05/2023 11:46 AM	XO45HG	1
31/05/2023 11:47 AM	XO22GF	1
31/05/2023 11:49 AM	XO42GF	1
31/05/2023 12:41 PM	AB80LV	1
31/05/2023 12:42 PM	XO82MQ	1
31/05/2023 12:54 PM	XO49HG	1
31/05/2023 1:05 PM	XO45HG	1
31/05/2023 1:09 PM	XO22GF	1
31/05/2023 1:14 PM	XO42GF	1
31/05/2023 1:16 PM	XS40EX	1
31/05/2023 1:40 PM	XN50SK	1
31/05/2023 1:46 PM	XO43EW	1
31/05/2023 1:49 PM	XO45HG	1
31/05/2023 1:50 PM	XO22GF	1
31/05/2023 1:54 PM	XO82MQ	1
31/05/2023 1:57 PM	AB80LV	1
31/05/2023 2:00 PM	XO49HG	1
31/05/2023 2:21 PM	XO45HG	1
31/05/2023 2:39 PM	XO42GF	1
31/05/2023 2:50 PM	XO45HG	1
31/05/2023 3:02 PM	XO82MQ	1

31/05/2023 3:14 PM	XO49HG	1			
1/06/2023 7:23 AM	XO43EW	1	1/06/2023 12:13 AM	CK38WU	1
1/06/2023 7:28 AM	XN50SK	1	1/06/2023 12:38 AM	CP23QH	1
1/06/2023 10:00 AM	XO43EW	1	1/06/2023 12:49 AM	XO51CZ	1
1/06/2023 10:07 AM	XN50SK	1	1/06/2023 1:18 AM	XO16OJ	1
1/06/2023 10:42 AM	XS40EX	1	1/06/2023 1:34 AM	XO52BT	1
1/06/2023 11:22 AM	XS40EX	1	1/06/2023 1:50 AM	XN35OR	1
1/06/2023 12:44 PM	XO00NB	1	1/06/2023 2:05 AM	XN08ZO	1
1/06/2023 1:15 PM	XS40EX	1	1/06/2023 2:18 AM	XO55HG	1
1/06/2023 1:44 PM	XO42EW	1	1/06/2023 3:05 AM	BL47DW	1
2/06/2023 7:33 AM	CP83TG	1	1/06/2023 3:20 AM	BL23XK	1
2/06/2023 7:35 AM	XN50SK	1	1/06/2023 3:34 AM	XO67AJ	1
2/06/2023 8:16 AM	XN50SK	1	1/06/2023 4:08 AM	CK38WU	1
2/06/2023 8:59 AM	XN50SK	1	1/06/2023 4:22 AM	XO52BT	1
2/06/2023 10:39 AM	XO47CZ	1	1/06/2023 4:54 AM	XO77FK	1
2/06/2023 10:52 AM	CP83TG	1	1/06/2023 8:06 AM	XQ95KJ	1
5/06/2023 7:29 AM	XO43EW	1	1/06/2023 8:50 PM	CP23QH	1
5/06/2023 8:03 AM	XO07HY	1	1/06/2023 9:13 PM	XO51CZ	1
5/06/2023 8:10 AM	XO78EV	1	1/06/2023 9:26 PM	XO16OJ	1
5/06/2023 9:04 AM	XO07HY	1	1/06/2023 9:46 PM	XO52BT	1
5/06/2023 9:26 AM	XO78EV	1	1/06/2023 9:59 PM	XN35OR	1
5/06/2023 10:05 AM	XO43EW	1	1/06/2023 10:15 PM	XO55HG	1
5/06/2023 10:08 AM	XO07HY	1	1/06/2023 10:28 PM	BL47DW	1
5/06/2023 10:29 AM	XO78EV	1	1/06/2023 10:43 PM	BL23XK	1
5/06/2023 11:08 AM	XO07HY	1	1/06/2023 11:15 PM	CK38WU	1
5/06/2023 11:30 AM	XO43EW	1	1/06/2023 11:52 PM	XO77FK	1
5/06/2023 1:09 PM	XO49HG	1	2/06/2023 12:07 AM	XN08ZO	1
5/06/2023 2:24 PM	XO49HG	1	2/06/2023 12:19 AM	CP23QH	1
6/06/2023 7:17 AM	XN50SK	1	2/06/2023 12:42 AM	XO51CZ	1
6/06/2023 7:19 AM	XS40EX	1	2/06/2023 12:57 AM	XO67AJ	1
6/06/2023 7:57 AM	CP83TG	1	2/06/2023 1:13 AM	XO52BT	1

6/06/2023 8:46 AM	XO22GF	1	2/06/2023 1:33 AM	XO77FK	1
6/06/2023 8:49 AM	XO43EW	1	2/06/2023 1:44 AM	BL23XK	1
6/06/2023 9:35 AM	XN50SK	1	2/06/2023 8:19 AM	XQ95KJ	1
6/06/2023 9:40 AM	CP83TG	1	2/06/2023 8:07 PM	CK38WU	1
6/06/2023 10:07 AM	XS40EX	1	2/06/2023 8:42 PM	XO16OJ	1
6/06/2023 10:24 AM	XO07HY	1	2/06/2023 8:58 PM	XO52BT	1
6/06/2023 10:27 AM	XN73UT	1	2/06/2023 10:36 PM	CK38WU	1
6/06/2023 10:55 AM	XN50SK	1	2/06/2023 10:38 PM	BL23XK	1
6/06/2023 11:05 AM	CP83TG	1	2/06/2023 10:51 PM	XN35OR	1
6/06/2023 11:26 AM	XS40EX	1	2/06/2023 11:07 PM	XO52BT	1
6/06/2023 11:40 AM	XO07HY	1	2/06/2023 11:22 PM	XN08ZO	1
6/06/2023 11:44 AM	XN73UT	1	2/06/2023 11:35 PM	CP23QH	1
6/06/2023 12:46 PM	XN08ZO	1	2/06/2023 11:50 PM	BL47DW	1
6/06/2023 12:47 PM	XO07HY	1	3/06/2023 12:05 AM	XO55HG	1
6/06/2023 12:51 PM	XN73UT	1	3/06/2023 12:41 AM	XO16OJ	1
6/06/2023 12:53 PM	XN50SK	1	3/06/2023 12:57 AM	BL23XK	1
6/06/2023 1:39 PM	XS40EX	1	3/06/2023 1:09 AM	XO67AJ	1
6/06/2023 2:30 PM	XN08ZO	1	3/06/2023 1:40 AM	CK38WU	1
7/06/2023 7:16 AM	XS40EX	1	3/06/2023 2:03 AM	XN35OR	1
7/06/2023 7:35 AM	XN50SK	1	3/06/2023 2:13 AM	XO52BT	1
7/06/2023 7:46 AM	CP83TG	1	3/06/2023 2:28 AM	XN08ZO	1
7/06/2023 7:58 AM	CP84TG	1	3/06/2023 2:38 AM	CP23QH	1
7/06/2023 8:07 AM	XO26GF	1	3/06/2023 2:45 AM	BL47DW	1
7/06/2023 10:02 AM	XS40EX	1	5/06/2023 8:54 AM	XQ95KJ	1
7/06/2023 10:07 AM	XN50SK	1	5/06/2023 8:24 PM	XO51CZ	1
7/06/2023 10:09 AM	XO22GF	1	5/06/2023 8:54 PM	CK38WU	1
7/06/2023 10:21 AM	CP83TG	1	5/06/2023 9:30 PM	XO16OJ	1
7/06/2023 10:29 AM	CP84TG	1	5/06/2023 9:50 PM	XO52BT	1
7/06/2023 10:33 AM	XO26GF	1	5/06/2023 10:01 PM	XO55HG	1
7/06/2023 10:55 AM	XN50SK	1	5/06/2023 10:31 PM	CP23QH	1
7/06/2023 11:04 AM	CP83TG	1	5/06/2023 10:47 PM	XO77FK	1

7/06/2023 11:06 AM	XO22GF	1	5/06/2023 11:03 PM	BL23XK	1
7/06/2023 11:11 AM	CP84TG	1	5/06/2023 11:25 PM	XO51CZ	1
7/06/2023 11:36 AM	BL79TZ	1	5/06/2023 11:55 PM	CK38WU	1
7/06/2023 11:38 AM	XN50SK	1	6/06/2023 12:11 AM	BL47DW	1
7/06/2023 11:40 AM	XS40EX	1	6/06/2023 12:27 AM	XO52BT	1
7/06/2023 12:41 PM	XO07HY	1	6/06/2023 1:03 AM	XO16OJ	1
7/06/2023 12:42 PM	BL79TZ	1	6/06/2023 1:17 AM	XO55HG	1
7/06/2023 12:44 PM	XO26GF	1	6/06/2023 1:35 AM	CP23QH	1
7/06/2023 1:35 PM	XO07HY	1	6/06/2023 1:40 AM	XO67AJ	1
7/06/2023 1:48 PM	XS40EX	1	6/06/2023 1:50 AM	BL23XK	1
7/06/2023 2:33 PM	XO07HY	1	6/06/2023 7:53 AM	XQ95KJ	1
7/06/2023 2:47 PM	CK61GD	1	6/06/2023 7:56 AM	XN94WC	1
7/06/2023 3:05 PM	BL79TZ	1	6/06/2023 11:03 AM	XQ95KJ	1
7/06/2023 3:24 PM	XN08ZO	1	6/06/2023 8:47 PM	XO16OJ	1
7/06/2023 3:31 PM	XO07HY	1	6/06/2023 9:16 PM	XO51CZ	1
8/06/2023 7:30 AM	XO07HY	1	6/06/2023 9:29 PM	XN35OR	1
8/06/2023 7:36 AM	XN30BP	1	6/06/2023 9:42 PM	XO52BT	1
8/06/2023 7:39 AM	XN08ZO	1	6/06/2023 10:13 PM	CK38WU	1
8/06/2023 7:44 AM	BL79TZ	1	6/06/2023 11:04 PM	XO51CZ	1
8/06/2023 8:04 AM	XS40EX	1	6/06/2023 11:18 PM	XN35OR	1
8/06/2023 8:30 AM	XO07HY	1	6/06/2023 11:38 PM	BL47DW	1
8/06/2023 8:40 AM	XN30BP	1	6/06/2023 11:47 PM	CP60LI	1
8/06/2023 9:04 AM	XN08ZO	1	6/06/2023 11:53 PM	BL23XK	1
8/06/2023 9:31 AM	XO07HY	1	7/06/2023 12:08 AM	CK38WU	1
8/06/2023 9:44 AM	XN30BP	1	7/06/2023 12:25 AM	XO16OJ	1
8/06/2023 10:22 AM	XS40EX	1	7/06/2023 1:17 AM	XO77FK	1
8/06/2023 11:03 AM	XN30BP	1	7/06/2023 1:36 AM	XO52BT	1
8/06/2023 11:07 AM	XO07HY	1	7/06/2023 4:13 AM	XO67AJ	1
8/06/2023 11:59 AM	BL79TZ	1	7/06/2023 4:19 AM	BL23XK	1
8/06/2023 12:42 PM	XO07HY	1	7/06/2023 7:51 AM	XQ95KJ	1
8/06/2023 1:37 PM	XO07HY	1	7/06/2023 8:08 AM	XN94WC	1

8/06/2023 2:29 PM	XO07HY	1	7/06/2023 9:27 PM	XN35OR	1
8/06/2023 3:21 PM	XN73UT	1	7/06/2023 9:50 PM	XO51CZ	1
8/06/2023 3:22 PM	XO07HY	1	7/06/2023 10:25 PM	XO16OJ	1
8/06/2023 3:31 PM	XO16LW	1	7/06/2023 10:58 PM	XO52BT	1
8/06/2023 3:40 PM	XN30BP	1	7/06/2023 11:10 PM	BL23XK	1
9/06/2023 7:48 AM	XO78EV	1	7/06/2023 11:27 PM	XO77FK	1
9/06/2023 9:50 AM	XO78EV	1	7/06/2023 11:42 PM	CP60LI	1
9/06/2023 11:23 AM	XO78EV	1	8/06/2023 12:00 AM	CP23QH	1
9/06/2023 12:42 PM	XO24AE	1	8/06/2023 12:28 AM	CK38WU	1
9/06/2023 1:02 PM	XO78EV	1	8/06/2023 12:42 AM	BL47DW	1
9/06/2023 2:21 PM	XO78EV	1	8/06/2023 12:57 AM	XO67AJ	1
13/06/2023 8:20 AM	XO47CZ	1	8/06/2023 1:13 AM	XN35OR	1
13/06/2023 10:06 AM	XN50SK	1	8/06/2023 1:42 AM	XO51CZ	1
13/06/2023 10:30 AM	XO47CZ	1	8/06/2023 2:45 AM	XO52BT	1
13/06/2023 11:19 AM	CP84TG	1	8/06/2023 3:17 AM	CK38WU	1
13/06/2023 11:29 AM	XO43EW	1	8/06/2023 8:02 AM	XQ95KJ	1
13/06/2023 11:35 AM	CP83TG	1	8/06/2023 8:07 AM	XN94WC	1
13/06/2023 11:36 AM	XO47CZ	1	8/06/2023 9:22 PM	XO51CZ	1
13/06/2023 12:04 PM	XO72KV	1	8/06/2023 9:40 PM	XN35OR	1
13/06/2023 1:05 PM	XO42EW	1	8/06/2023 10:14 PM	XO16OJ	1
13/06/2023 1:36 PM	XO47CZ	1	8/06/2023 10:30 PM	XO52BT	1
14/06/2023 7:19 AM	XO42EW	1	8/06/2023 10:46 PM	XO77FK	1
14/06/2023 8:02 AM	XO43EW	1	8/06/2023 11:00 PM	BL47DW	1
14/06/2023 8:04 AM	XO26GF	1	8/06/2023 11:17 PM	BL23XK	1
14/06/2023 8:05 AM	CP83TG	1	8/06/2023 11:29 PM	XO55HG	1
14/06/2023 8:15 AM	BL79TZ	1	8/06/2023 11:48 PM	CP23QH	1
14/06/2023 9:00 AM	XO49HG	1	9/06/2023 12:15 AM	CK38WU	1
14/06/2023 9:04 AM	CP84TG	1	9/06/2023 12:35 AM	XO67AJ	1
14/06/2023 9:17 AM	XO66CP	1	9/06/2023 1:44 AM	XO51CZ	1
14/06/2023 10:08 AM	CP83TG	1	9/06/2023 2:02 AM	XN35OR	1
14/06/2023 10:11 AM	XO47CZ	1	9/06/2023 3:16 AM	XO52BT	1

14/06/2023 10:18 AM	XO43EW	1	9/06/2023 3:28 AM	XO16OJ	1
14/06/2023 10:21 AM	XO42EW	1	9/06/2023 7:39 AM	XO24AE	1
14/06/2023 10:34 AM	CP84TG	1	9/06/2023 7:53 AM	XN94WC	1
14/06/2023 10:51 AM	CP83TG	1	13/06/2023 7:45 AM	XQ95KJ	1
14/06/2023 10:56 AM	XO43EW	1	13/06/2023 7:51 AM	XN94WC	1
14/06/2023 11:30 AM	CP84TG	1	13/06/2023 8:51 AM	XO33OJ	1
14/06/2023 11:32 AM	XO42EW	1	13/06/2023 8:58 AM	XN09UX	1
14/06/2023 11:34 AM	XO47CZ	1	13/06/2023 10:34 AM	XO52BT	1
14/06/2023 11:39 AM	CP83TG	1	13/06/2023 10:56 AM	XO61QL	1
14/06/2023 12:42 PM	BL79TZ	1	13/06/2023 11:10 AM	XO51CZ	1
14/06/2023 1:16 PM	XO47CZ	1	13/06/2023 11:32 AM	XO35NB	1
14/06/2023 1:18 PM	XO42EW	1	13/06/2023 11:39 AM	CP23QH	1
14/06/2023 1:23 PM	XO43EW	1	13/06/2023 11:49 AM	BI88CH	1
14/06/2023 1:31 PM	CP83TG	1	13/06/2023 12:43 PM	XO33OJ	1
14/06/2023 1:41 PM	CG20RC	1	13/06/2023 12:59 PM	XO52BT	1
15/06/2023 7:14 AM	XN50SK	1	13/06/2023 1:28 PM	XO61QL	1
15/06/2023 7:17 AM	CP83TG	1	13/06/2023 1:44 PM	BL23XK	1
15/06/2023 7:21 AM	XO43EW	1	13/06/2023 2:07 PM	XO51CZ	1
15/06/2023 7:26 AM	XO78EV	1	13/06/2023 2:19 PM	XO67AJ	1
15/06/2023 7:29 AM	CP84TG	1	13/06/2023 2:30 PM	XO78KV	1
15/06/2023 7:30 AM	XO26GF	1	13/06/2023 2:41 PM	XO35NB	1
15/06/2023 7:33 AM	XO47CZ	1	13/06/2023 2:53 PM	CP23QH	1
15/06/2023 7:42 AM	XO42EW	1	13/06/2023 3:04 PM	BI88CH	1
15/06/2023 8:24 AM	XO11KP	1	14/06/2023 7:32 AM	XN94WC	1
15/06/2023 8:51 AM	XN50SK	1	14/06/2023 7:43 AM	XN86OK	1
15/06/2023 8:53 AM	XO47CZ	1	14/06/2023 8:21 AM	XQ95KJ	1
15/06/2023 8:59 AM	XO42EW	1	14/06/2023 9:34 AM	XO51CZ	1
15/06/2023 9:18 AM	CP83TG	1	14/06/2023 9:41 AM	XO52BT	1
15/06/2023 9:19 AM	XO78EV	1	14/06/2023 9:57 AM	XO92KB	1
15/06/2023 9:20 AM	XO26GF	1	14/06/2023 10:10 AM	XN35OR	1
15/06/2023 9:22 AM	XO43EW	1	14/06/2023 10:19 AM	BI88CH	1

15/06/2023 9:34 AM	CP84TG	1	14/06/2023 11:43 AM	XQ95KJ	1
15/06/2023 9:57 AM	XO11KP	1	14/06/2023 12:20 PM	XN22OO	1
15/06/2023 10:07 AM	XN50SK	1	14/06/2023 12:24 PM	BL23XK	1
15/06/2023 10:21 AM	CP83TG	1	14/06/2023 12:25 PM	XO77FK	1
15/06/2023 10:29 AM	XO78EV	1	14/06/2023 12:27 PM	CP60LI	1
15/06/2023 10:30 AM	XO43EW	1	14/06/2023 12:36 PM	CP23QH	1
15/06/2023 11:09 AM	XN50SK	1	14/06/2023 12:39 PM	XO61QL	1
15/06/2023 11:12 AM	XO35NB	1	14/06/2023 12:55 PM	XO52BT	1
15/06/2023 11:25 AM	XO11KP	1	14/06/2023 1:02 PM	XO67AJ	1
15/06/2023 11:26 AM	CP83TG	1	14/06/2023 1:24 PM	XN35OR	1
15/06/2023 11:40 AM	XO78EV	1	14/06/2023 1:27 PM	BI88CH	1
15/06/2023 11:45 AM	XO43EW	1	15/06/2023 7:35 AM	XQ95KJ	1
15/06/2023 12:39 PM	XO35NB	1	15/06/2023 7:43 AM	XN94WC	1
15/06/2023 12:40 PM	XN50SK	1	15/06/2023 7:45 AM	CI79PF	1
15/06/2023 12:45 PM	XO11KP	1	15/06/2023 8:20 AM	XO51CZ	1
15/06/2023 12:54 PM	CP84TG	1	15/06/2023 8:44 AM	CK38WU	1
15/06/2023 12:58 PM	CP83TG	1	15/06/2023 9:15 AM	BI88CH	1
15/06/2023 1:08 PM	XO43EW	1	15/06/2023 9:17 AM	XO92KB	1
15/06/2023 1:19 PM	XO78EV	1	15/06/2023 10:14 AM	XQ95KJ	1
15/06/2023 1:40 PM	XN50SK	1	15/06/2023 11:03 AM	XN35OR	1
15/06/2023 2:01 PM	CP83TG	1	15/06/2023 11:19 AM	XO52BT	1
15/06/2023 2:03 PM	XO11KP	1	15/06/2023 11:32 AM	XO77FK	1
15/06/2023 2:04 PM	CP84TG	1	15/06/2023 11:47 AM	XO61QL	1
15/06/2023 2:08 PM	XO43EW	1	15/06/2023 12:03 PM	XO67AJ	1
15/06/2023 2:23 PM	XO78EV	1	15/06/2023 12:25 PM	CP60LI	1
15/06/2023 3:03 PM	CP84TG	1	15/06/2023 12:36 PM	BL23XK	1
16/06/2023 7:18 AM	XO72KV	1	15/06/2023 12:50 PM	XN22OO	1
16/06/2023 7:19 AM	CP83TG	1	15/06/2023 1:03 PM	CP23QH	1
16/06/2023 7:22 AM	XO43EW	1	15/06/2023 1:17 PM	XN08ZO	1
16/06/2023 7:23 AM	XN50SK	1	15/06/2023 1:48 PM	XO51CZ	1
16/06/2023 7:55 AM	XO00NB	1	16/06/2023 7:21 AM	CI79PF	1

16/06/2023 7:59 AM	XO11KP	1	16/06/2023 7:38 AM	XN94WC	1
16/06/2023 8:13 AM	CP84TG	1	16/06/2023 7:41 AM	XQ95KJ	1
16/06/2023 8:23 AM	CP83TG	1	16/06/2023 8:01 AM	XO61QL	1
16/06/2023 8:28 AM	XO43EW	1	16/06/2023 8:03 AM	BL23XK	1
16/06/2023 8:57 AM	XN50SK	1	16/06/2023 8:10 AM	XN09UX	1
16/06/2023 9:24 AM	XO11KP	1	16/06/2023 8:12 AM	XO52BT	1
16/06/2023 9:43 AM	CP84TG	1	16/06/2023 8:33 AM	XO67AJ	1
16/06/2023 9:58 AM	CP83TG	1	16/06/2023 8:48 AM	CP60LI	1
16/06/2023 10:06 AM	XO26GF	1	16/06/2023 9:05 AM	XN22OO	1
16/06/2023 10:09 AM	XO47CZ	1	16/06/2023 9:29 AM	XN86OK	1
16/06/2023 10:13 AM	XO00NB	1	16/06/2023 9:38 AM	BL47DW	1
16/06/2023 10:38 AM	XO11KP	1	16/06/2023 9:53 AM	XN08ZO	1
16/06/2023 10:42 AM	XN50SK	1	16/06/2023 10:11 AM	XO92KB	1
16/06/2023 10:46 AM	CP84TG	1	16/06/2023 10:25 AM	XN35OR	1
16/06/2023 11:32 AM	XO00NB	1	16/06/2023 11:31 AM	XQ95KJ	1
16/06/2023 12:35 PM	XO11KP	1	17/06/2023 8:24 AM	BL47DW	1
16/06/2023 1:34 PM	XO00NB	1	17/06/2023 9:12 AM	XO16OJ	1
19/06/2023 7:34 AM	XO78EV	1	17/06/2023 9:26 AM	XN08ZO	1
19/06/2023 7:39 AM	XO00NB	1	17/06/2023 9:40 AM	XN35OR	1
19/06/2023 7:42 AM	XN50SK	1	17/06/2023 9:56 AM	XO51BT	1
19/06/2023 7:44 AM	CP83TG	1	17/06/2023 9:57 AM	CP23QH	1
19/06/2023 7:54 AM	XO11KP	1	17/06/2023 10:11 AM	XO52BT	1
19/06/2023 8:53 AM	XO00NB	1	17/06/2023 10:26 AM	XO35NB	1
19/06/2023 9:13 AM	XO07HY	1	17/06/2023 11:06 AM	BL23XK	1
19/06/2023 10:43 AM	XN50SK	1	17/06/2023 11:21 AM	XO67AJ	1
19/06/2023 10:47 AM	CP83TG	1	17/06/2023 12:18 PM	BL47DW	1
19/06/2023 12:01 PM	XN50SK	1	17/06/2023 12:24 PM	XN08ZO	1
19/06/2023 12:34 PM	XO07HY	1	17/06/2023 12:26 PM	XO52BT	1
19/06/2023 1:25 PM	CP83TG	1	19/06/2023 7:43 AM	XQ95KJ	1
19/06/2023 1:44 PM	XO07HY	1	19/06/2023 8:00 AM	CI79PF	1
19/06/2023 2:23 PM	AV43YN	1	19/06/2023 8:36 AM	XO52BT	1

19/06/2023 2:41 PM	XO49HG	1	19/06/2023 8:49 AM	CP23QH	1
19/06/2023 2:47 PM	XO07HY	1	19/06/2023 8:58 AM	XN22OO	1
19/06/2023 3:47 PM	XO07HY	1	19/06/2023 9:27 AM	XO51CZ	1
20/06/2023 7:17 AM	XO00NB	1	19/06/2023 10:46 AM	XN08ZO	1
20/06/2023 7:31 AM	CP84TG	1	19/06/2023 11:01 AM	BL23XK	1
20/06/2023 7:50 AM	CP84TG	1	19/06/2023 11:22 AM	XO61QL	1
20/06/2023 8:05 AM	XO07HY	1	19/06/2023 11:48 AM	XQ95KJ	1
20/06/2023 8:10 AM	XO43EW	1	20/06/2023 7:39 AM	XQ95KJ	1
20/06/2023 8:59 AM	XO00NB	1	20/06/2023 7:42 AM	XN94WC	1
20/06/2023 9:53 AM	XO42EW	1	20/06/2023 7:53 AM	BL47DW	1
20/06/2023 10:06 AM	XO07HY	1	20/06/2023 8:08 AM	XO67AJ	1
20/06/2023 10:13 AM	CP83TG	1	20/06/2023 12:03 PM	CP23QH	1
20/06/2023 10:17 AM	CP84TG	1	20/06/2023 12:17 PM	XO61QL	1
20/06/2023 10:47 AM	XO43EW	1	20/06/2023 12:34 PM	XO52BT	1
20/06/2023 11:21 AM	XO07HY	1	20/06/2023 12:57 PM	BL23XK	1
20/06/2023 11:57 AM	XO57HG	1	21/06/2023 7:46 AM	CI79PF	1
20/06/2023 12:45 PM	CP83TG	1	21/06/2023 7:56 AM	XN94WC	1
20/06/2023 12:47 PM	CP84TG	1	21/06/2023 8:01 AM	XQ95KJ	1
20/06/2023 12:48 PM	XO43EW	2	21/06/2023 8:09 AM	XO06LB	1
20/06/2023 1:31 PM	XN82TZ	1	21/06/2023 8:40 AM	XO52BT	1
20/06/2023 2:30 PM	XO07HY	1	21/06/2023 8:55 AM	CP23QH	1
21/06/2023 7:17 AM	XO00NB	1	21/06/2023 9:02 AM	XN35OR	1
21/06/2023 7:30 AM	XO43EW	1	21/06/2023 9:31 AM	XO51CZ	1
21/06/2023 8:20 AM	XO57HG	1	21/06/2023 10:52 AM	XQ95KJ	1
21/06/2023 8:28 AM	XO07HY	1	21/06/2023 12:42 PM	XN86OK	1
21/06/2023 10:24 AM	XO57HG	1	21/06/2023 12:57 PM	XO51BT	1
21/06/2023 11:17 AM	CP84TG	1	21/06/2023 1:49 PM	CP23QH	1
21/06/2023 12:51 PM	XO07HY	1	22/06/2023 7:38 AM	XQ95KJ	1
21/06/2023 2:00 PM	XO07HY	1	22/06/2023 7:42 AM	XO33OJ	1
21/06/2023 2:07 PM	XO42EW	1	22/06/2023 7:45 AM	XQ680J	1
21/06/2023 2:10 PM	CP84TG	1	22/06/2023 7:50 AM	XN94WC	1

21/06/2023 3:27 PM	XO07HY	1	22/06/2023 7:52 AM	XO44HG	1
22/06/2023 7:20 AM	XO00NB	1	22/06/2023 8:48 AM	XN22OO	1
22/06/2023 7:41 AM	XN50SK	1	22/06/2023 9:00 AM	XO52BT	1
22/06/2023 7:44 AM	XO43EW	1	22/06/2023 10:37 AM	XQ95KJ	1
22/06/2023 7:55 AM	XO57HG	1	22/06/2023 11:36 AM	XO33OJ	1
22/06/2023 10:07 AM	BL79TZ	1	22/06/2023 1:09 PM	CP23QH	1
22/06/2023 10:27 AM	XN50SK	1	22/06/2023 1:25 PM	XO51CZ	1
22/06/2023 10:47 AM	XO43EW	1	22/06/2023 1:40 PM	XO52BT	1
22/06/2023 11:17 AM	XO57HG	1	23/06/2023 7:42 AM	XO44HG	1
22/06/2023 12:45 PM	XN50SK	1	23/06/2023 7:43 AM	XO33OJ	1
22/06/2023 3:11 PM	XO00NB	1	23/06/2023 7:47 AM	XN94WC	1
23/06/2023 7:20 AM	XO49HG	1	23/06/2023 7:55 AM	XQ680J	1
23/06/2023 7:33 AM	XO00NB	1	23/06/2023 8:00 AM	XN30AO	1
23/06/2023 7:37 AM	XO47CZ	1	24/06/2023 7:14 AM	XO51BT	1
23/06/2023 9:23 AM	XO00NB	1	24/06/2023 7:23 AM	XO52BT	1
23/06/2023 10:20 AM	XN50SK	1	24/06/2023 7:39 AM	XO67AJ	1
23/06/2023 10:25 AM	CP83TG	1	24/06/2023 7:53 AM	BL23XK	1
23/06/2023 10:26 AM	XO47CZ	1	24/06/2023 8:12 AM	XN86OK	1
23/06/2023 11:18 AM	XO00NB	1	24/06/2023 8:26 AM	XN22OO	1
23/06/2023 11:46 AM	XN50SK	1	24/06/2023 8:43 AM	XN35OR	1
23/06/2023 12:45 PM	CP83TG	1	24/06/2023 8:55 AM	CP23QH	1
23/06/2023 12:50 PM	XO00NB	1	24/06/2023 9:12 AM	BI88CH	1
23/06/2023 2:09 PM	XO00NB	1	24/06/2023 9:30 AM	CP60LI	1
26/06/2023 7:18 AM	XO00NB	1	24/06/2023 9:56 AM	XO51BT	1
26/06/2023 7:27 AM	XO57HG	1	24/06/2023 10:10 AM	XO52BT	1
26/06/2023 7:31 AM	XO26GF	1	24/06/2023 10:24 AM	XO67AJ	1
26/06/2023 10:46 AM	XO57HG	1	24/06/2023 10:40 AM	XN86OK	1
26/06/2023 12:41 PM	XO00NB	1	24/06/2023 10:55 AM	BL23XK	1
26/06/2023 1:26 PM	XO57HG	1	24/06/2023 11:08 AM	XN22OO	1
26/06/2023 1:57 PM	XO00NB	1	24/06/2023 11:25 AM	XN35OR	1
26/06/2023 3:13 PM	CE34TZ	1	24/06/2023 11:36 AM	CP23QH	1

27/06/2023 7:37 AM	XO07HY	1	24/06/2023 11:52 AM	BI88CH	1
27/06/2023 9:09 AM	XO07HY	1	24/06/2023 12:05 PM	CP60LI	1
27/06/2023 10:38 AM	XO00NB	1	24/06/2023 12:19 PM	XO51BT	1
27/06/2023 11:13 AM	CP83TG	1	24/06/2023 12:35 PM	XO52BT	1
27/06/2023 11:32 AM	XO07HY	1	24/06/2023 12:49 PM	XO67AJ	1
27/06/2023 12:00 PM	XO00NB	1	24/06/2023 1:05 PM	XN86OK	1
27/06/2023 12:35 PM	XO07HY	1	24/06/2023 1:18 PM	BL23XK	1
27/06/2023 1:24 PM	XO43EW	1	24/06/2023 1:31 PM	XN22OO	1
27/06/2023 1:38 PM	XO07HY	1	24/06/2023 1:47 PM	XN35OR	1
27/06/2023 2:26 PM	XO00NB	1	24/06/2023 1:56 PM	CP23QH	1
27/06/2023 2:34 PM	CP84TG	1	26/06/2023 7:33 AM	XN94WC	1
27/06/2023 2:37 PM	XN50SK	1	26/06/2023 7:36 AM	CI79PF	1
27/06/2023 2:40 PM	XO07HY	1	26/06/2023 8:03 AM	XO52BT	1
27/06/2023 2:45 PM	CP83TG	1	26/06/2023 8:23 AM	XO67AJ	1
27/06/2023 2:47 PM	CP83TG	1	26/06/2023 8:50 AM	XN22OO	1
27/06/2023 2:52 PM	XN89VR	1	26/06/2023 9:21 AM	XO16LW	1
27/06/2023 2:53 PM	XO57HG	1	26/06/2023 9:26 AM	XQ680J	1
27/06/2023 3:39 PM	XO00NB	1	26/06/2023 9:39 AM	XN49LP	1
27/06/2023 3:42 PM	XO07HY	1	26/06/2023 9:45 AM	XO93NA	1
28/06/2023 7:18 AM	XO00NB	1	27/06/2023 7:41 AM	XQ95KJ	1
28/06/2023 9:01 AM	XO00NB	1	27/06/2023 7:44 AM	XN94WC	1
28/06/2023 9:34 AM	CE34TZ	1	27/06/2023 7:52 AM	XQ680J	1
28/06/2023 10:09 AM	CP83TG	1	27/06/2023 7:59 AM	CI79PF	1
28/06/2023 10:15 AM	XN50SK	1	27/06/2023 8:13 AM	XO52BT	1
28/06/2023 10:25 AM	XO26GF	1	27/06/2023 8:30 AM	XO67AJ	1
28/06/2023 10:27 AM	XO42EW	1	27/06/2023 8:43 AM	XN22OO	1
28/06/2023 10:36 AM	CP84TG	1	27/06/2023 9:04 AM	XO92KB	1
28/06/2023 10:57 AM	XO00NB	1	27/06/2023 9:19 AM	XN35OR	1
28/06/2023 12:31 PM	CP83TG	1	27/06/2023 11:22 AM	XQ680J	1
28/06/2023 12:32 PM	XN50SK	1	27/06/2023 11:36 AM	XQ95KJ	1
28/06/2023 12:36 PM	XO00NB	1	27/06/2023 11:40 AM	XO52BT	1

28/06/2023 12:50 PM	CP84TG	1	27/06/2023 12:22 PM	XO67AJ	1
28/06/2023 1:37 PM	CE34TZ	1	28/06/2023 7:40 AM	XO44HG	1
28/06/2023 1:56 PM	XN50SK	1	28/06/2023 7:41 AM	XO33OJ	1
28/06/2023 2:35 PM	CP84TG	1	28/06/2023 7:49 AM	XQ95KJ	1
28/06/2023 2:52 PM	XO00NB	1	28/06/2023 7:51 AM	XN94WC	1
28/06/2023 2:56 PM	CE34TZ	1	28/06/2023 10:06 AM	XO52BT	1
29/06/2023 7:18 AM	XO42EW	1	28/06/2023 10:34 AM	CK38WU	1
29/06/2023 7:20 AM	XO00NB	1	28/06/2023 10:55 AM	XO51CZ	1
29/06/2023 7:27 AM	XO43EW	1	28/06/2023 11:17 AM	XN22OO	1
29/06/2023 7:30 AM	XN50SK	1	28/06/2023 11:25 AM	CP23QH	1
29/06/2023 7:36 AM	XO35NB	1	28/06/2023 12:34 PM	BL23XK	1
29/06/2023 7:39 AM	XO47CZ	1	28/06/2023 12:49 PM	XO67AJ	1
29/06/2023 9:05 AM	XO00NB	1	28/06/2023 1:09 PM	XO52BT	1
29/06/2023 9:13 AM	XO35NB	1	28/06/2023 1:47 PM	CK38WU	1
29/06/2023 9:26 AM	CP84TG	2	28/06/2023 2:00 PM	XO51CZ	1
29/06/2023 9:27 AM	XN50SK	1	28/06/2023 2:58 PM	XO67AJ	1
29/06/2023 10:08 AM	XO42EW	1	29/06/2023 7:23 AM	XQ95KJ	1
29/06/2023 10:12 AM	XO47CZ	1	29/06/2023 7:24 AM	XO66OU	1
29/06/2023 10:48 AM	CP84TG	1	29/06/2023 7:41 AM	XN94WC	1
29/06/2023 10:53 AM	XO43EW	1	29/06/2023 7:46 AM	CI79PF	1
29/06/2023 10:58 AM	XO35NB	1	29/06/2023 7:50 AM	XO52BT	1
29/06/2023 11:06 AM	XN50SK	1	29/06/2023 8:27 AM	CK38WU	1
29/06/2023 11:12 AM	XO72KV	1	29/06/2023 8:43 AM	XO51CZ	1
29/06/2023 11:13 AM	XO00NB	1	29/06/2023 9:01 AM	XN35OR	1
29/06/2023 11:34 AM	XO57HG	2	29/06/2023 9:10 AM	XN22OO	1
29/06/2023 11:36 AM	XO42EW	1	29/06/2023 9:24 AM	CP23QH	1
29/06/2023 11:37 AM	XO47CZ	1	29/06/2023 9:39 AM	BL23XK	1
29/06/2023 12:42 PM	XO00NB	1	29/06/2023 10:04 AM	XO52BT	1
29/06/2023 12:58 PM	CP84TG	1	29/06/2023 10:16 AM	XO67AJ	1
29/06/2023 1:03 PM	XO43EW	1	29/06/2023 10:39 AM	CK38WU	1
29/06/2023 1:08 PM	XO35NB	1	29/06/2023 11:00 AM	XO51CZ	1

29/06/2023 2:54 PM	XO00NB	1	29/06/2023 11:15 AM	XN35OR	1
30/06/2023 7:15 AM	XO57HG	1	29/06/2023 11:28 AM	XN22OO	1
30/06/2023 7:17 AM	XO00NB	1	29/06/2023 11:46 AM	CP23QH	1
30/06/2023 7:45 AM	XN50SK	1	29/06/2023 11:58 AM	BL23XK	1
30/06/2023 7:49 AM	XO22GF	1	29/06/2023 12:13 PM	XO52BT	1
30/06/2023 7:51 AM	XO43EW	1	29/06/2023 12:39 PM	XO67AJ	1
30/06/2023 8:03 AM	XO42EW	1	29/06/2023 2:16 PM	XO51CZ	1
30/06/2023 8:54 AM	XO00NB	1	30/06/2023 7:32 AM	XQ95KJ	1
30/06/2023 10:16 AM	XN50SK	1	30/06/2023 7:42 AM	XO51BT	1
30/06/2023 10:29 AM	XO57HG	1	30/06/2023 7:47 AM	CI79PF	1
30/06/2023 10:30 AM	XO42EW	1	30/06/2023 8:05 AM	XO52BT	1
30/06/2023 10:33 AM	XO22GF	1	30/06/2023 8:24 AM	XO67AJ	1
30/06/2023 10:34 AM	XO00NB	1	30/06/2023 8:44 AM	XN22OO	1
30/06/2023 11:43 AM	XN50SK	1	30/06/2023 9:02 AM	XO51CZ	1
30/06/2023 12:14 PM	XO00NB	1	30/06/2023 9:18 AM	XO61QL	1
30/06/2023 1:02 PM	XN50SK	1	30/06/2023 9:45 AM	XN35OR	1
30/06/2023 2:31 PM	XO00NB	1	30/06/2023 10:36 AM	XO52BT	1
			30/06/2023 11:04 AM	XO51BT	1
			30/06/2023 12:47 PM	XO67AJ	1
1/07/2023 6:56 AM	XO47CZ	1	1/07/2023 7:49 AM	XB15GB	1
3/07/2023 7:24 AM	XN50SK	1	1/07/2023 8:01 AM	042VRH	1
3/07/2023 7:38 AM	CP83TG	1	1/07/2023 8:21 AM	XO52BT	1
3/07/2023 7:43 AM	XO42EW	1	1/07/2023 8:35 AM	BL47DW	1
3/07/2023 8:03 AM	XO22GF	1	1/07/2023 8:51 AM	XO67AJ	1
3/07/2023 8:54 AM	XO00NB	1	1/07/2023 9:09 AM	XN86OK	1
3/07/2023 8:57 AM	XO42EW	1	1/07/2023 10:12 AM	XB15GB	1
3/07/2023 9:25 AM	XO22GF	1	1/07/2023 11:09 AM	XO51BT	1
3/07/2023 9:37 AM	XN50SK	1	1/07/2023 12:38 PM	XO67AJ	1
3/07/2023 9:38 AM	CP83TG	1	3/07/2023 7:35 AM	XO33OJ	1
3/07/2023 9:51 AM	XO43EW	1	3/07/2023 7:41 AM	XO44HG	1
3/07/2023 10:22 AM	XO00NB	1	3/07/2023 7:49 AM	XQ95KJ	1

3/07/2023 10:24 AM	XO42EW	1	3/07/2023 8:23 AM	XO52BT	1
3/07/2023 11:27 AM	XN50SK	1	3/07/2023 8:30 AM	XO51BT	1
3/07/2023 11:34 AM	CP83TG	1	3/07/2023 8:45 AM	XN22OO	1
3/07/2023 11:40 AM	XO43EW	1	3/07/2023 10:11 AM	XN86OK	1
3/07/2023 12:00 PM	XO00NB	1	3/07/2023 10:36 AM	XO51CZ	1
3/07/2023 2:40 PM	XO00NB	1	3/07/2023 10:55 AM	XO33OJ	1
4/07/2023 7:32 AM	CP83TG	1	3/07/2023 10:56 AM	XO52BT	1
4/07/2023 7:37 AM	XO43EW	1	3/07/2023 12:07 PM	XO51BT	1
4/07/2023 9:17 AM	CP83TG	1	3/07/2023 12:42 PM	XN22OO	1
4/07/2023 9:18 AM	XO43EW	1	3/07/2023 12:55 PM	XO92KB	1
4/07/2023 10:38 AM	CP83TG	1	3/07/2023 1:14 PM	XN86OK	1
4/07/2023 10:39 AM	XO43EW	1	3/07/2023 1:48 PM	XO51CZ	1
4/07/2023 12:41 PM	CE34TZ	1	4/07/2023 7:34 AM	XQ95KJ	1
4/07/2023 1:08 PM	XN50SK	1	4/07/2023 8:53 AM	XO31OY	1
4/07/2023 1:10 PM	XO43EW	1	5/07/2023 7:40 AM	XN94WC	1
5/07/2023 7:25 AM	XN50SK	1	5/07/2023 7:49 AM	XO51BT	1
5/07/2023 7:27 AM	CP83TG	1	5/07/2023 8:04 AM	XO52BT	1
5/07/2023 9:36 AM	XO42EW	1	5/07/2023 8:28 AM	XO67AJ	1
5/07/2023 10:29 AM	XN45LP	1	5/07/2023 8:39 AM	XN22OO	1
5/07/2023 11:34 AM	XN45LP	1	5/07/2023 9:01 AM	BL47DW	1
5/07/2023 1:10 PM	XN45LP	1	5/07/2023 9:15 AM	XO92KB	1
5/07/2023 2:56 PM	XO72KV	1	5/07/2023 9:40 AM	XQ95KJ	1
6/07/2023 7:18 AM	XO00NB	1	5/07/2023 9:42 AM	BI88CH	1
6/07/2023 7:22 AM	CE34TZ	1	5/07/2023 9:50 AM	XO33OJ	1
6/07/2023 7:26 AM	XO42EW	1	5/07/2023 10:07 AM	XO61QL	1
6/07/2023 7:39 AM	XO43EW	1	5/07/2023 10:10 AM	XO44HG	1
6/07/2023 7:51 AM	CP84TG	1	5/07/2023 11:18 AM	XN86OK	1
6/07/2023 8:42 AM	XO00NB	1	5/07/2023 11:39 AM	XN35OR	1
6/07/2023 9:19 AM	XN50SK	1	5/07/2023 12:02 PM	XO51CZ	1
6/07/2023 9:22 AM	XO47CZ	1	5/07/2023 12:54 PM	XO33OJ	1
6/07/2023 10:27 AM	XO00NB	1	6/07/2023 7:32 AM	XQ95KJ	1

6/07/2023 10:39 AM	XO43EW	1	6/07/2023 7:36 AM	XN94WC	1
6/07/2023 10:43 AM	XO42EW	1	6/07/2023 7:41 AM	CI79PF	1
6/07/2023 10:56 AM	CP84TG	1	6/07/2023 7:59 AM	XO52BT	1
6/07/2023 10:57 AM	XO22GF	1	6/07/2023 8:24 AM	XO51BT	1
6/07/2023 11:36 AM	CE34TZ	1	6/07/2023 8:37 AM	XN22OO	1
6/07/2023 11:48 AM	XO00NB	1	6/07/2023 8:59 AM	XO51CZ	1
6/07/2023 11:52 AM	XO42EW	1	6/07/2023 9:17 AM	XN35OR	1
7/07/2023 7:12 AM	XO47CZ	1	6/07/2023 9:38 AM	XN86OK	1
7/07/2023 7:13 AM	XO22GF	1	6/07/2023 9:56 AM	BI88CH	1
7/07/2023 7:15 AM	XO26GF	1	7/07/2023 7:33 AM	XO44HG	1
7/07/2023 7:18 AM	XO00NB	1	7/07/2023 7:42 AM	XQ95KJ	1
7/07/2023 7:21 AM	XN50SK	1	7/07/2023 8:19 AM	XO52BT	1
7/07/2023 7:23 AM	CE34TZ	1	7/07/2023 9:59 AM	XQ95KJ	1
7/07/2023 8:45 AM	XN50SK	1	10/07/2023 7:57 AM	CI79PF	1
7/07/2023 9:09 AM	XO00NB	1	10/07/2023 8:03 AM	XQ95KJ	1
7/07/2023 10:24 AM	CE34TZ	1	10/07/2023 8:05 AM	XN94WC	1
7/07/2023 10:37 AM	XN50SK	1	10/07/2023 8:30 AM	XO67AJ	1
7/07/2023 11:27 AM	XO00NB	1	11/07/2023 7:33 AM	XO52BT	1
7/07/2023 12:00 PM	XN50SK	1	11/07/2023 7:46 AM	XO51BT	1
7/07/2023 1:39 PM	CE34TZ	1	11/07/2023 8:10 AM	XN86OK	1
7/07/2023 3:03 PM	CE34TZ	1	11/07/2023 8:11 AM	CI79PF	1
10/07/2023 7:23 AM	XN50SK	1	11/07/2023 8:18 AM	XQ95KJ	1
10/07/2023 7:27 AM	XO26GF	1	11/07/2023 8:34 AM	XO61QL	1
10/07/2023 7:37 AM	XO77FK	1	11/07/2023 8:50 AM	BI88CH	1
10/07/2023 7:38 AM	CG20RC	1	11/07/2023 9:10 AM	XN35OR	1
10/07/2023 7:43 AM	CP84TG	1	11/07/2023 9:26 AM	CP23QH	1
10/07/2023 8:40 AM	XO49HG	1	11/07/2023 9:43 AM	XO67AJ	1
10/07/2023 8:57 AM	XO43EW	1	11/07/2023 10:08 AM	XO92KB	1
10/07/2023 9:14 AM	XN50SK	1	11/07/2023 11:27 AM	XO52BT	1
10/07/2023 9:19 AM	XO77FK	1	11/07/2023 12:08 PM	XQ95KJ	1
10/07/2023 9:30 AM	CP84TG	1	11/07/2023 12:25 PM	XO51BT	1

10/07/2023 10:38 AM	CP83TG	1	11/07/2023 12:27 PM	XO51CZ	1
10/07/2023 10:40 AM	XO43EW	1	11/07/2023 12:45 PM	XN86OK	1
10/07/2023 11:05 AM	CP84TG	1	11/07/2023 1:30 PM	XO61QL	1
10/07/2023 11:09 AM	XN50SK	1	11/07/2023 1:54 PM	BI88CH	1
10/07/2023 2:29 PM	XO77FK	1	11/07/2023 2:14 PM	XN35OR	1
11/07/2023 7:19 AM	XO00NB	1	12/07/2023 7:33 AM	XO52BT	1
11/07/2023 7:38 AM	XO43EW	1	12/07/2023 7:52 AM	XO51BT	1
11/07/2023 7:56 AM	CP84TG	1	12/07/2023 7:58 AM	XQ95KJ	1
11/07/2023 8:17 AM	CP83TG	1	12/07/2023 8:23 AM	XO67AJ	1
11/07/2023 9:34 AM	XO43EW	1	12/07/2023 8:40 AM	BI88CH	1
11/07/2023 10:07 AM	CP84TG	1	12/07/2023 8:59 AM	XN86OK	1
11/07/2023 10:36 AM	CP83TG	1	12/07/2023 9:19 AM	XO61QL	1
11/07/2023 10:45 AM	XO00NB	1	12/07/2023 9:35 AM	XO07HY	1
11/07/2023 12:41 PM	XO43EW	1	12/07/2023 9:53 AM	XN35OR	1
11/07/2023 12:42 PM	CP84TG	1	12/07/2023 9:58 AM	XQ95KJ	1
11/07/2023 12:51 PM	CP83TG	1	12/07/2023 10:14 AM	XN22OO	1
12/07/2023 1:25 PM	XO42EW	1	12/07/2023 10:30 AM	XO92KB	1
13/07/2023 7:18 AM	XO49HG	1	12/07/2023 10:49 AM	CP23QH	1
13/07/2023 7:23 AM	CE34TZ	1	12/07/2023 11:14 AM	XO51CZ	1
13/07/2023 8:25 AM	XO72KV	1	12/07/2023 11:33 AM	XQ95KJ	1
13/07/2023 9:11 AM	CE34TZ	1	13/07/2023 7:34 AM	CI79PF	1
13/07/2023 9:13 AM	XO49HG	1	13/07/2023 7:50 AM	XQ95KJ	1
13/07/2023 10:45 AM	XO49HG	1	13/07/2023 8:03 AM	XO52BT	1
13/07/2023 10:48 AM	CE34TZ	1	13/07/2023 8:21 AM	XO61QL	1
13/07/2023 12:54 PM	XO49HG	1	13/07/2023 11:02 AM	XO92KB	1
13/07/2023 2:36 PM	XO49HG	1	13/07/2023 11:25 AM	XN35OR	1
14/07/2023 7:18 AM	XO49HG	1	13/07/2023 11:45 AM	XO51CZ	1
14/07/2023 7:22 AM	CE34TZ	1	13/07/2023 11:54 AM	BI88CH	1
14/07/2023 7:24 AM	XO72KV	1	13/07/2023 12:04 PM	CP23QH	1
14/07/2023 7:29 AM	XO57HG	1	13/07/2023 12:07 PM	CI19JJ	1
14/07/2023 9:05 AM	XO72KV	1	13/07/2023 12:31 PM	XO51BT	1

14/07/2023 9:09 AM	CE34TZ	1	13/07/2023 12:36 PM	XO61QL	1
14/07/2023 9:11 AM	XO49HG	1	13/07/2023 12:49 PM	XO52BT	1
14/07/2023 10:47 AM	XO72KV	1	13/07/2023 1:41 PM	XN26MW	1
14/07/2023 11:00 AM	CE34TZ	1	14/07/2023 7:43 AM	XQ680J	1
14/07/2023 11:49 AM	XO49HG	1	14/07/2023 7:48 AM	XN94WC	1
14/07/2023 12:52 PM	CE34TZ	1	14/07/2023 7:50 AM	XQ95KJ	1
14/07/2023 12:54 PM	XO72KV	1	14/07/2023 7:58 AM	XO52BT	1
14/07/2023 2:27 PM	XO72KV	1	14/07/2023 8:33 AM	XO67AJ	1
14/07/2023 2:31 PM	CE34TZ	1	15/07/2023 9:15 AM	XO51BT	1
14/07/2023 3:15 PM	CE34TZ	1	15/07/2023 9:35 AM	XO52BT	1
17/07/2023 7:17 AM	XO92KB	1	15/07/2023 9:50 AM	XN22OO	1
17/07/2023 7:56 AM	XO92KB	1	15/07/2023 10:09 AM	XN35OR	1
17/07/2023 9:39 AM	XN20DC	1	15/07/2023 11:19 AM	XO61QL	1
18/07/2023 7:52 AM	CP83TG	1	15/07/2023 11:32 AM	CP60LI	1
18/07/2023 9:59 AM	CP83TG	1	17/07/2023 7:53 AM	XQ95KJ	1
18/07/2023 10:37 AM	CP83TG	1	17/07/2023 8:10 AM	XO61QL	1
18/07/2023 10:58 AM	XO49HG	1	17/07/2023 8:22 AM	XN26MW	1
18/07/2023 11:17 AM	CP83TG	1	17/07/2023 8:42 AM	XO51CZ	1
18/07/2023 11:30 AM	XO43EW	1	17/07/2023 9:29 AM	XO51BT	1
18/07/2023 12:43 PM	XO49HG	1	17/07/2023 10:30 AM	XB82AK	1
18/07/2023 1:11 PM	CP83TG	1	17/07/2023 1:33 PM	XO51CZ	1
18/07/2023 2:14 PM	XO49HG	1	17/07/2023 1:43 PM	XO51BT	1
18/07/2023 3:32 PM	XO49HG	1	17/07/2023 2:00 PM	XO52BT	1
19/07/2023 7:32 AM	CP83TG	1	18/07/2023 7:28 AM	XQ95KJ	1
19/07/2023 7:34 AM	CE34TZ	1	18/07/2023 8:27 AM	BL23XK	1
19/07/2023 7:37 AM	XO49HG	1	18/07/2023 8:41 AM	XO67AJ	1
19/07/2023 7:39 AM	XO43EW	1	19/07/2023 7:38 AM	CI79PF	1
19/07/2023 9:26 AM	CP83TG	1	19/07/2023 7:42 AM	XN94WC	1
19/07/2023 9:27 AM	CE34TZ	1	19/07/2023 7:50 AM	XQ95KJ	1
19/07/2023 9:30 AM	XO49HG	1	19/07/2023 8:02 AM	XO51BT	1
19/07/2023 9:31 AM	XO43EW	1	19/07/2023 8:10 AM	XN30AO	1

19/07/2023 9:55 AM	CN71ER	1	19/07/2023 8:56 AM	XN42FS	1
19/07/2023 10:39 AM	CN71ER	1	19/07/2023 9:25 AM	XQ680J	1
19/07/2023 10:41 AM	CP83TG	1	19/07/2023 11:31 AM	XN30AO	1
19/07/2023 10:50 AM	XO43EW	1	19/07/2023 12:29 PM	XQ680J	1
19/07/2023 11:09 AM	XO49HG	1	19/07/2023 1:30 PM	XN30AO	1
19/07/2023 11:17 AM	CN71ER	1	19/07/2023 2:34 PM	XQ680J	1
19/07/2023 11:30 AM	CE34TZ	1	20/07/2023 7:43 AM	XQ95KJ	1
19/07/2023 1:12 PM	CN71ER	1	20/07/2023 7:48 AM	DE24HP	1
19/07/2023 1:46 PM	CP83TG	1	20/07/2023 7:52 AM	XN94WC	1
19/07/2023 2:03 PM	CE34TZ	1	20/07/2023 10:41 AM	BL23XK	1
20/07/2023 7:20 AM	CN71ER	1	20/07/2023 10:59 AM	XO67AJ	1
20/07/2023 7:21 AM	XO42EW	1	20/07/2023 12:27 PM	BL23XK	1
20/07/2023 7:23 AM	CE34TZ	1	24/07/2023 8:41 AM	XQ95KJ	1
20/07/2023 7:25 AM	XO49HG	1	25/07/2023 7:29 AM	CP85HJ	1
20/07/2023 7:28 AM	XN50SK	1	25/07/2023 7:41 AM	XN94WC	1
20/07/2023 7:30 AM	CP83TG	1	25/07/2023 7:46 AM	CI79PF	1
20/07/2023 7:34 AM	XO43EW	1	25/07/2023 7:52 AM	XQ95KJ	1
20/07/2023 8:44 AM	CN71ER	1	25/07/2023 7:54 AM	XQ680J	1
20/07/2023 8:47 AM	XO42EW	1	25/07/2023 8:34 AM	XO51CZ	1
20/07/2023 9:08 AM	XO49HG	1	25/07/2023 11:32 AM	XQ95KJ	1
20/07/2023 9:44 AM	XO43EW	1	25/07/2023 11:43 AM	XO52BT	1
20/07/2023 9:55 AM	CN71ER	1	25/07/2023 1:12 PM	XO51CZ	1
20/07/2023 11:13 AM	XO42EW	1	26/07/2023 9:07 AM	XQ95KJ	1
20/07/2023 11:25 AM	XO43EW	1	26/07/2023 9:12 AM	XN94WC	1
21/07/2023 12:41 PM	XO49HG	1	26/07/2023 9:43 AM	XO51CZ	1
21/07/2023 12:59 PM	CE34TZ	1	26/07/2023 9:56 AM	XN86OK	1
24/07/2023 8:03 AM	XO77FK	1	26/07/2023 10:14 AM	XN35OR	1
25/07/2023 9:58 AM	XO26GF	1	26/07/2023 10:31 AM	BI88CH	1
25/07/2023 11:12 AM	XO26GF	1	26/07/2023 12:41 PM	XN86OK	1
25/07/2023 2:20 PM	XN50SK	1	27/07/2023 7:45 AM	CK38WU	1
26/07/2023 7:29 AM	XO43EW	1	27/07/2023 7:50 AM	XN94WC	1

26/07/2023 7:49 AM	XN50SK	1	27/07/2023 8:03 AM	XO52BT	1
26/07/2023 7:56 AM	CP84TG	1	27/07/2023 8:14 AM	XQ95KJ	1
26/07/2023 8:29 AM	CP83TG	1	27/07/2023 8:25 AM	BL23XK	1
26/07/2023 8:35 AM	XN50SK	1	27/07/2023 8:37 AM	XO67AJ	1
26/07/2023 8:38 AM	CP84TG	1	27/07/2023 9:00 AM	XO51CZ	1
26/07/2023 9:45 AM	CN71ER	1	27/07/2023 9:22 AM	XN86OK	1
26/07/2023 9:49 AM	XN50SK	1	27/07/2023 9:32 AM	XO61QL	1
26/07/2023 9:54 AM	CP84TG	1	27/07/2023 10:02 AM	BI88CH	1
26/07/2023 11:22 AM	XO43EW	1	27/07/2023 10:17 AM	CK38WU	1
26/07/2023 11:24 AM	CP84TG	1	27/07/2023 10:33 AM	XO52BT	1
26/07/2023 11:29 AM	CN71ER	1	27/07/2023 10:48 AM	BL23XK	1
26/07/2023 11:41 AM	XN50SK	1	27/07/2023 11:07 AM	XO67AJ	1
26/07/2023 1:29 PM	XO43EW	1	27/07/2023 11:23 AM	XO51CZ	1
26/07/2023 1:33 PM	XN50SK	1	27/07/2023 11:26 AM	BI88CH	1
26/07/2023 1:52 PM	XO51CZ	1	27/07/2023 11:41 AM	XN86OK	1
26/07/2023 2:17 PM	XN20DC	1	27/07/2023 11:59 AM	XO61QL	1
27/07/2023 7:43 AM	CP83TG	1	27/07/2023 1:10 PM	CK38WU	1
27/07/2023 7:48 AM	XO43EW	1	27/07/2023 1:16 PM	XO52BT	1
27/07/2023 7:53 AM	XO57HG	1	27/07/2023 3:31 PM	BL23XK	1
27/07/2023 7:59 AM	XO47CZ	1	27/07/2023 3:33 PM	XO67AJ	1
27/07/2023 8:27 AM	CP84TG	1	27/07/2023 3:35 PM	XN86OK	1
27/07/2023 10:09 AM	XO47CZ	1	27/07/2023 3:50 PM	XO61QL	1
27/07/2023 10:13 AM	XO57HG	1	27/07/2023 3:57 PM	CK38WU	1
27/07/2023 10:21 AM	CP83TG	1	28/07/2023 7:53 AM	XQ95KJ	1
27/07/2023 10:24 AM	XO43EW	1	28/07/2023 7:55 AM	XN94WC	1
27/07/2023 10:36 AM	CP84TG	1	28/07/2023 8:57 AM	BL23XK	1
27/07/2023 10:47 AM	XO42EW	1	28/07/2023 9:14 AM	XO67AJ	1
27/07/2023 10:49 AM	XO47CZ	1	28/07/2023 9:34 AM	XN86OK	1
27/07/2023 10:50 AM	XO57HG	1	28/07/2023 12:22 PM	XO67AJ	1
27/07/2023 11:29 AM	XO57HG	1	28/07/2023 12:41 PM	XN86OK	1
27/07/2023 11:30 AM	XO42EW	1	29/07/2023 7:58 AM	CK38WU	1

27/07/2023 11:31 AM	XO47CZ	1	29/07/2023 8:18 AM	XN86OK	1
27/07/2023 1:09 PM	CP83TG	1	29/07/2023 8:30 AM	BI88CH	1
27/07/2023 1:11 PM	XO43EW	1	29/07/2023 8:55 AM	XN35OR	1
27/07/2023 1:13 PM	XO57HG	1	29/07/2023 11:05 AM	XN86OK	1
27/07/2023 1:14 PM	XO47CZ	1	29/07/2023 11:25 AM	CK38WU	1
27/07/2023 1:15 PM	XO42EW	1	29/07/2023 11:30 AM	BI88CH	1
27/07/2023 1:18 PM	CP84TG	1	29/07/2023 11:37 AM	CP60LI	1
28/07/2023 7:22 AM	CP83TG	1	29/07/2023 11:53 AM	XN35OR	1
28/07/2023 7:26 AM	XO43EW	1	29/07/2023 12:31 PM	XO67AJ	1
28/07/2023 7:44 AM	XO26GF	1	29/07/2023 12:46 PM	XO78KV	1
28/07/2023 9:33 AM	CP83TG	1	29/07/2023 1:02 PM	BL23XK	1
28/07/2023 9:34 AM	XO43EW	1	29/07/2023 1:07 PM	XN22OO	1
28/07/2023 9:53 AM	XO26GF	1	29/07/2023 1:15 PM	CK38WU	1
28/07/2023 11:05 AM	XO43EW	1	29/07/2023 1:17 PM	XO61QL	1
28/07/2023 11:22 AM	CP83TG	1	29/07/2023 2:06 PM	XN86OK	1
31/07/2023 7:30 AM	XN50SK	1	29/07/2023 2:07 PM	CP60LI	1
31/07/2023 7:41 AM	CP83TG	1	29/07/2023 2:09 PM	BI88CH	1
31/07/2023 9:51 AM	XN50SK	1	29/07/2023 2:14 PM	XN35OR	1
31/07/2023 9:54 AM	CP83TG	1	29/07/2023 2:33 PM	XO67AJ	1
31/07/2023 11:05 AM	XN50SK	1	30/07/2023 6:02 PM	XO52BT	1
31/07/2023 11:12 AM	CP83TG	1	30/07/2023 6:16 PM	XO51CZ	1
31/07/2023 1:13 PM	XO43EW	1	30/07/2023 6:31 PM	XO61QL	1
31/07/2023 1:18 PM	CP84TG	1	30/07/2023 6:49 PM	BI88CH	1
31/07/2023 1:34 PM	XN50SK	1	30/07/2023 7:54 PM	XO77FK	1
31/07/2023 1:36 PM	CP83TG	1	30/07/2023 8:00 PM	BL23XK	1
31/07/2023 1:43 PM	XO46EG	1	30/07/2023 8:14 PM	XN86OK	1
31/07/2023 2:18 PM	XO46EG	1	30/07/2023 8:44 PM	XO67AJ	1
			30/07/2023 8:52 PM	XO52BT	1
			30/07/2023 10:52 PM	XO51CZ	1
			30/07/2023 11:08 PM	XO61QL	1
			30/07/2023 11:25 PM	BI88CH	1
1/08/2023 7:18 AM	XN50SK	1	1/08/2023 7:48 AM	XN94WC	1

1/08/2023 7:52 AM	CP84TG	1	1/08/2023 7:54 AM	599SWS	1
1/08/2023 8:55 AM	XN50SK	1	1/08/2023 7:56 AM	CI79PF	1
1/08/2023 10:40 AM	XN50SK	1	1/08/2023 7:57 AM	XQ95KJ	1
1/08/2023 1:02 PM	XN50SK	1	1/08/2023 8:13 AM	XO61QL	1
2/08/2023 7:55 AM	XO57HG	1	1/08/2023 8:15 AM	XN30AO	1
2/08/2023 10:50 AM	XO57HG	1	1/08/2023 8:34 AM	XO52BT	1
2/08/2023 1:15 PM	XO57HG	1	1/08/2023 8:53 AM	XO51CZ	1
3/08/2023 7:29 AM	XO22GF	1	1/08/2023 9:07 AM	BI88CH	1
3/08/2023 7:31 AM	XO43EW	1	1/08/2023 10:33 AM	BL23XK	1
3/08/2023 7:44 AM	XO47CZ	1	1/08/2023 1:59 PM	XO61QL	1
3/08/2023 8:50 AM	CNI482	1	1/08/2023 2:13 PM	BI88CH	1
3/08/2023 8:56 AM	XO57HG	1	1/08/2023 2:27 PM	XO51CZ	1
3/08/2023 9:32 AM	XO22GF	1	1/08/2023 3:26 PM	BL23XK	1
3/08/2023 9:34 AM	XO43EW	1	2/08/2023 7:31 AM	XO33OJ	1
3/08/2023 9:35 AM	XO47CZ	1	2/08/2023 7:34 AM	XO44HG	1
3/08/2023 9:49 AM	CNI482	1	2/08/2023 7:45 AM	XQ680J	1
3/08/2023 10:24 AM	XO22GF	1	2/08/2023 7:46 AM	CI79PF	1
3/08/2023 10:26 AM	XO43EW	2	2/08/2023 7:56 AM	XQ95KJ	1
3/08/2023 10:50 AM	CNI482	1	2/08/2023 9:35 AM	BL23XK	1
3/08/2023 11:13 AM	XO22GF	1	2/08/2023 9:42 AM	XN86OK	1
3/08/2023 11:14 AM	XO43EW	1	2/08/2023 10:58 AM	XN30AO	1
3/08/2023 11:26 AM	XO47CZ	1	2/08/2023 11:15 AM	XO44HG	1
3/08/2023 11:42 AM	CNI482	1	3/08/2023 8:16 AM	XQ95KJ	1
3/08/2023 12:51 PM	XN50SK	1	3/08/2023 8:25 AM	CI79PF	1
3/08/2023 12:54 PM	XO22GF	1	3/08/2023 8:30 AM	XN30AO	1
3/08/2023 12:55 PM	XO43EW	1	3/08/2023 8:47 AM	XO51CZ	1
3/08/2023 1:17 PM	XO47CZ	1	3/08/2023 9:02 AM	BI88CH	1
3/08/2023 1:40 PM	CP83TG	1	3/08/2023 9:39 AM	XN35OR	1
3/08/2023 1:49 PM	XO22GF	1	3/08/2023 9:57 AM	XO61QL	1
3/08/2023 1:51 PM	XO43EW	1	3/08/2023 10:47 AM	XO51BT	1
4/08/2023 7:15 AM	XO43EW	1	3/08/2023 11:06 AM	XO67AJ	1

4/08/2023 7:18 AM	XO47CZ	1	3/08/2023 11:31 AM	BI88CH	1
4/08/2023 7:19 AM	XO22GF	1	3/08/2023 12:45 PM	XO51CZ	1
4/08/2023 7:33 AM	XO42EW	1	3/08/2023 3:17 PM	XN35OR	1
4/08/2023 8:48 AM	CP83TG	1	3/08/2023 3:35 PM	BL23XK	1
4/08/2023 8:49 AM	XO43EW	1	3/08/2023 3:44 PM	XO67AJ	1
4/08/2023 8:51 AM	XO47CZ	1	3/08/2023 3:59 PM	XO51BT	1
4/08/2023 8:54 AM	XO22GF	1	4/08/2023 7:36 AM	XO33OJ	1
4/08/2023 10:24 AM	XO47CZ	2	4/08/2023 7:39 AM	XO44HG	1
4/08/2023 10:26 AM	XO22GF	1	4/08/2023 7:58 AM	BL23XK	1
4/08/2023 10:31 AM	XO43EW	1	4/08/2023 8:16 AM	XO51BT	1
4/08/2023 10:37 AM	CP84TG	1	4/08/2023 8:24 AM	XO61QL	1
4/08/2023 11:13 AM	XO47CZ	1	4/08/2023 8:31 AM	XO67AJ	1
4/08/2023 11:28 AM	CP83TG	1	4/08/2023 8:47 AM	XN30AO	1
4/08/2023 11:30 AM	XO22GF	1	4/08/2023 11:22 AM	BL23XK	1
4/08/2023 11:36 AM	XO43EW	1	4/08/2023 11:35 AM	XO51BT	1
4/08/2023 11:41 AM	CP84TG	1	7/08/2023 7:33 AM	XQ95KJ	1
4/08/2023 11:58 AM	XO42EW	1	7/08/2023 7:51 AM	XO51BT	1
4/08/2023 12:47 PM	XO47CZ	1	7/08/2023 8:09 AM	BL23XK	1
4/08/2023 1:19 PM	XO22GF	1	7/08/2023 8:32 AM	XO51CZ	1
4/08/2023 1:30 PM	CP83TG	1	7/08/2023 8:46 AM	BI88CH	1
4/08/2023 1:33 PM	CP84TG	1	7/08/2023 8:54 AM	XN86OK	1
4/08/2023 1:34 PM	XO43EW	1	7/08/2023 9:11 AM	XN35OR	1
4/08/2023 1:35 PM	XO47CZ	1	7/08/2023 9:26 AM	XO61QL	1
7/08/2023 7:32 AM	CP83TG	1	7/08/2023 9:38 AM	XO67AJ	1
7/08/2023 7:35 AM	XN50SK	1	7/08/2023 9:54 AM	XO77FK	1
7/08/2023 7:37 AM	XO22GF	1	7/08/2023 10:18 AM	XN22OO	1
7/08/2023 7:38 AM	XO43EW	1	7/08/2023 10:21 AM	XO51BT	1
7/08/2023 7:40 AM	CP84TG	1	7/08/2023 10:36 AM	BL23XK	1
7/08/2023 7:41 AM	XO57HG	1	7/08/2023 10:58 AM	XO51CZ	1
7/08/2023 7:46 AM	XO42EW	1	7/08/2023 11:11 AM	BI88CH	1
7/08/2023 9:39 AM	XO57HG	1	7/08/2023 11:43 AM	CK38WU	1

7/08/2023 9:48 AM	XO22GF	1	7/08/2023 11:56 AM	XN86OK	1
7/08/2023 9:57 AM	CP83TG	1	7/08/2023 12:13 PM	XN35OR	1
7/08/2023 10:01 AM	XN50SK	1	7/08/2023 12:27 PM	XO61QL	1
7/08/2023 10:22 AM	XO43EW	1	7/08/2023 12:42 PM	XO67AJ	1
7/08/2023 10:33 AM	CP84TG	1	7/08/2023 12:56 PM	XO77FK	1
7/08/2023 10:59 AM	XO57HG	1	7/08/2023 1:10 PM	XO51BT	1
7/08/2023 11:45 AM	XO22GF	1	7/08/2023 1:25 PM	XN22OO	1
7/08/2023 11:55 AM	CP83TG	1	7/08/2023 1:34 PM	BL23XK	1
7/08/2023 12:00 PM	XN50SK	1	7/08/2023 1:46 PM	BI88CH	1
7/08/2023 12:55 PM	CP84TG	1	8/08/2023 7:53 AM	XO44HG	1
7/08/2023 1:53 PM	XO42EW	1	8/08/2023 8:08 AM	XQ95KJ	1
8/08/2023 9:52 AM	XO22GF	1	8/08/2023 8:19 AM	XO52BT	1
9/08/2023 7:19 AM	XN50SK	1	8/08/2023 8:39 AM	BL23XK	1
9/08/2023 7:23 AM	XO57HG	1	8/08/2023 8:55 AM	XO74DI	1
9/08/2023 7:24 AM	XO42EW	1	8/08/2023 8:57 AM	XO67AJ	1
9/08/2023 7:55 AM	XO43EW	1	8/08/2023 9:01 AM	XN16YZ	1
9/08/2023 8:56 AM	XO57HG	1	8/08/2023 9:09 AM	XN86OK	1
9/08/2023 10:11 AM	BL79TZ	1	8/08/2023 9:32 AM	XO51CZ	1
9/08/2023 10:21 AM	XO43EW	1	8/08/2023 11:03 AM	XO52BT	1
9/08/2023 10:37 AM	XO57HG	1	8/08/2023 11:21 AM	XO67AJ	1
9/08/2023 11:28 AM	XN89RF	1	8/08/2023 11:41 AM	XN86OK	1
9/08/2023 11:47 AM	XO43EW	1	8/08/2023 12:11 PM	XO51BT	1
9/08/2023 12:40 PM	XN89RF	1	8/08/2023 12:27 PM	XO51CZ	1
9/08/2023 1:15 PM	CP83TG	1	8/08/2023 12:45 PM	XO52BT	1
9/08/2023 1:25 PM	XO43EW	1	8/08/2023 1:04 PM	XO67AJ	1
9/08/2023 2:25 PM	CP83TG	1	8/08/2023 2:50 PM	XN86OK	1
9/08/2023 2:30 PM	XO43EW	1	8/08/2023 3:36 PM	XO51BT	1
10/08/2023 7:37 AM	XN50SK	1	9/08/2023 7:37 AM	XQ95KJ	1
10/08/2023 7:52 AM	BL79TZ	1	9/08/2023 7:43 AM	XN94WC	1
10/08/2023 8:03 AM	CP84TG	1	9/08/2023 7:58 AM	XO52BT	1
10/08/2023 8:25 AM	CP83TG	2	9/08/2023 8:15 AM	XO67AJ	1

10/08/2023 10:18 AM	CP83TG	1	9/08/2023 8:31 AM	XN86OK	1
10/08/2023 10:21 AM	XO43EW	1	9/08/2023 8:56 AM	XO51CZ	1
10/08/2023 10:53 AM	XN50SK	1	9/08/2023 9:12 AM	XO77FK	1
10/08/2023 10:58 AM	CP84TG	1	9/08/2023 10:56 AM	XO52BT	1
10/08/2023 11:17 AM	CP83TG	1	9/08/2023 12:02 PM	XN86OK	2
10/08/2023 11:22 AM	XO43EW	1	9/08/2023 12:47 PM	XO51BT	1
10/08/2023 11:32 AM	XO22GF	1	9/08/2023 1:43 PM	XO52BT	1
10/08/2023 11:39 AM	XO57HG	1	10/08/2023 7:54 AM	XN94WC	1
10/08/2023 11:43 AM	XO42EW	1	10/08/2023 8:00 AM	XQ95KJ	1
10/08/2023 1:15 PM	CP83TG	1	10/08/2023 8:19 AM	XN86OK	1
10/08/2023 1:18 PM	XO43EW	1	10/08/2023 8:46 AM	XO51CZ	1
10/08/2023 1:53 PM	XN50SK	1	10/08/2023 9:10 AM	XO52BT	1
10/08/2023 2:41 PM	XO43EW	1	10/08/2023 1:08 PM	BL23XK	1
11/08/2023 7:22 AM	XN50SK	1	10/08/2023 1:23 PM	XN86OK	1
11/08/2023 7:24 AM	XO22GF	1	10/08/2023 2:04 PM	XO51CZ	1
11/08/2023 7:27 AM	XO42EW	1	10/08/2023 2:38 PM	XO67AJ	1
11/08/2023 7:32 AM	XO57HG	1	10/08/2023 3:39 PM	BL23XK	1
11/08/2023 7:38 AM	XO47CZ	1	10/08/2023 3:40 PM	XN86OK	1
11/08/2023 8:12 AM	XO43EW	1	11/08/2023 7:40 AM	XQ95KJ	1
11/08/2023 8:45 AM	XO22GF	1	11/08/2023 7:43 AM	XN94WC	1
11/08/2023 8:49 AM	XN50SK	1	11/08/2023 7:59 AM	XO52BT	1
11/08/2023 8:52 AM	XO42EW	1	11/08/2023 8:26 AM	XN86OK	1
11/08/2023 8:59 AM	XO47CZ	1	11/08/2023 8:36 AM	XO61QL	1
11/08/2023 10:18 AM	XO22GF	1	11/08/2023 9:02 AM	BI88CH	1
11/08/2023 10:22 AM	XO43EW	1	11/08/2023 9:21 AM	XN35OR	1
11/08/2023 10:34 AM	CP83TG	1	11/08/2023 10:33 AM	XO51BT	1
11/08/2023 10:38 AM	XN50SK	1	11/08/2023 11:02 AM	XQ95KJ	1
11/08/2023 11:06 AM	XO22GF	1	11/08/2023 11:04 AM	BL23XK	1
11/08/2023 11:22 AM	XO43EW	1	11/08/2023 12:03 PM	XO67AJ	1
11/08/2023 11:24 AM	CP83TG	1	11/08/2023 12:04 PM	XO52BT	1
11/08/2023 11:30 AM	XO42EW	1	11/08/2023 12:17 PM	XN86OK	1

11/08/2023 11:31 AM	XO47CZ	1	11/08/2023 12:20 PM	XO61QL	1
11/08/2023 12:00 PM	XO22GF	1	11/08/2023 12:51 PM	BI88CH	1
11/08/2023 1:42 PM	XO35NB	1	11/08/2023 1:09 PM	XN35OR	1
14/08/2023 7:23 AM	XO22GF	1	11/08/2023 1:25 PM	BL23XK	1
14/08/2023 7:32 AM	XN50SK	1	11/08/2023 2:32 PM	XO77FK	1
14/08/2023 7:39 AM	XO42EW	1	14/08/2023 7:51 AM	CP85HJ	1
14/08/2023 7:46 AM	CP83TG	1	14/08/2023 7:59 AM	XQ95KJ	1
14/08/2023 7:55 AM	XO43EW	1	14/08/2023 8:14 AM	XO52BT	1
14/08/2023 7:58 AM	XO26GF	1	14/08/2023 8:46 AM	XO51CZ	1
14/08/2023 8:04 AM	CP84TG	1	14/08/2023 9:12 AM	XN86OK	1
14/08/2023 8:44 AM	XN50SK	1	14/08/2023 9:13 AM	XO61QL	1
14/08/2023 9:22 AM	CP83TG	1	14/08/2023 9:33 AM	XO51BT	1
14/08/2023 10:11 AM	XO26GF	1	14/08/2023 10:05 AM	XQ95KJ	1
14/08/2023 10:43 AM	XN50SK	1	14/08/2023 12:15 PM	BL23XK	1
14/08/2023 10:52 AM	XO43EW	1	14/08/2023 12:17 PM	XO67AJ	1
14/08/2023 10:57 AM	CP83TG	1	14/08/2023 12:26 PM	XO52BT	1
14/08/2023 11:00 AM	XO22GF	1	14/08/2023 12:54 PM	XN86OK	1
14/08/2023 11:12 AM	CP84TG	1	14/08/2023 1:17 PM	XO61QL	1
14/08/2023 11:21 AM	XO42EW	1	14/08/2023 1:31 PM	XO51CZ	1
14/08/2023 11:34 AM	XN20DC	1	15/08/2023 7:46 AM	XQ95KJ	1
14/08/2023 11:38 AM	XO26GF	1	15/08/2023 7:48 AM	CI79PF	1
14/08/2023 1:14 PM	AK66GS	1	15/08/2023 7:52 AM	XN94WC	1
14/08/2023 1:17 PM	CP83TG	1	15/08/2023 8:27 AM	XO52BT	1
14/08/2023 1:25 PM	XO26GF	1	15/08/2023 8:50 AM	XN86OK	1
14/08/2023 1:32 PM	XO43EW	1	15/08/2023 9:15 AM	XO51CZ	1
14/08/2023 1:37 PM	XO42EW	1	15/08/2023 9:43 AM	XQ95KJ	1
14/08/2023 2:20 PM	XN50SK	1	15/08/2023 12:04 PM	XO52BT	1
14/08/2023 2:51 PM	XO26GF	1	16/08/2023 7:30 AM	XQ95KJ	1
16/08/2023 7:24 AM	XN50SK	1	16/08/2023 7:39 AM	XN94WC	1
16/08/2023 9:37 AM	XN50SK	1	16/08/2023 8:07 AM	CK38WU	1
16/08/2023 11:09 AM	XN50SK	1	16/08/2023 8:32 AM	XO67AJ	1

17/08/2023 7:55 AM	CP84TG	1	16/08/2023 8:40 AM	XO52BT	1
17/08/2023 10:26 AM	CP84TG	1	16/08/2023 9:00 AM	XN86OK	1
17/08/2023 12:40 PM	XN50SK	1	16/08/2023 9:18 AM	XO66TV	1
18/08/2023 7:24 AM	XO47CZ	1	16/08/2023 9:29 AM	XO61QL	1
18/08/2023 7:27 AM	XO57HG	1	16/08/2023 9:33 AM	CI79PF	1
18/08/2023 7:31 AM	XO42EW	1	16/08/2023 9:59 AM	XO51CZ	1
18/08/2023 9:01 AM	XO57HG	1	16/08/2023 10:02 AM	XQ95KJ	1
18/08/2023 9:17 AM	CP84TG	1	16/08/2023 10:17 AM	BI88CH	1
18/08/2023 9:18 AM	XN50SK	1	16/08/2023 10:36 AM	XN35OR	1
18/08/2023 9:30 AM	XO42EW	1	16/08/2023 11:07 AM	CK38WU	1
18/08/2023 10:36 AM	CP83TG	1	16/08/2023 11:25 AM	XO51BT	1
18/08/2023 10:39 AM	CP84TG	1	16/08/2023 11:38 AM	XO67AJ	1
18/08/2023 10:41 AM	XO47CZ	1	16/08/2023 11:59 AM	XO52BT	1
18/08/2023 10:43 AM	XN50SK	1	16/08/2023 12:15 PM	XN86OK	1
18/08/2023 10:55 AM	XO57HG	1	16/08/2023 12:31 PM	XO66TV	1
18/08/2023 10:57 AM	XO42EW	1	16/08/2023 1:10 PM	XO51CZ	1
18/08/2023 1:07 PM	XO47CZ	1	17/08/2023 7:42 AM	XQ95KJ	1
18/08/2023 1:39 PM	XO57HG	1	17/08/2023 7:46 AM	XN94WC	1
21/08/2023 7:18 AM	XN50SK	1	17/08/2023 7:47 AM	CI79PF	1
21/08/2023 7:20 AM	XO22GF	1	17/08/2023 8:06 AM	XO52BT	1
21/08/2023 7:30 AM	XO47CZ	1	17/08/2023 8:21 AM	XO67AJ	1
21/08/2023 7:31 AM	CP83TG	1	17/08/2023 8:37 AM	XN86OK	1
21/08/2023 8:41 AM	XN50SK	1	17/08/2023 10:05 AM	XO51BT	1
21/08/2023 8:53 AM	XO22GF	1	17/08/2023 1:48 PM	XO52BT	1
21/08/2023 8:57 AM	XO47CZ	1	18/08/2023 7:40 AM	XO44HG	1
21/08/2023 9:04 AM	CP83TG	1	18/08/2023 7:54 AM	XO33OJ	1
21/08/2023 9:52 AM	XO72KV	1	18/08/2023 8:05 AM	XN94WC	1
21/08/2023 10:32 AM	XO47CZ	1	18/08/2023 8:13 AM	XO52BT	1
21/08/2023 10:39 AM	XO22GF	1	18/08/2023 8:30 AM	XN35OR	1
21/08/2023 10:44 AM	XN50SK	1	18/08/2023 11:23 AM	XO51BT	1
21/08/2023 10:55 AM	CP83TG	1	18/08/2023 11:40 AM	XN86OK	1

21/08/2023 12:56 PM	XN50SK	1	18/08/2023 11:56 AM	XO52BT	1
21/08/2023 12:59 PM	CP83TG	1	18/08/2023 11:58 AM	XO33OJ	1
21/08/2023 2:33 PM	XN50SK	1	18/08/2023 12:18 PM	XN35OR	1
21/08/2023 2:38 PM	CP83TG	1	18/08/2023 1:10 PM	XO51BT	1
22/08/2023 7:20 AM	XO42GF	1	18/08/2023 1:23 PM	XN86OK	1
22/08/2023 7:25 AM	XO22GF	1	18/08/2023 1:45 PM	XO52BT	1
22/08/2023 7:47 AM	XO43EW	1	19/08/2023 8:31 AM	XO52BT	1
22/08/2023 8:45 AM	XN50SK	1	19/08/2023 8:56 AM	XN86OK	1
22/08/2023 9:01 AM	CP83TG	1	19/08/2023 2:45 PM	XO51BT	1
22/08/2023 10:09 AM	XO43EW	1	19/08/2023 2:59 PM	XN86OK	1
23/08/2023 8:02 AM	XO00NB	1	21/08/2023 7:45 AM	XN94WC	1
23/08/2023 9:29 AM	XO82MQ	1	21/08/2023 8:08 AM	XO67AJ	1
23/08/2023 10:29 AM	CP83TG	1	21/08/2023 8:22 AM	XN30AO	1
23/08/2023 10:54 AM	XO00NB	1	21/08/2023 8:28 AM	XN86OK	1
23/08/2023 11:56 AM	XO00NB	1	21/08/2023 9:05 AM	XN02EG	1
23/08/2023 1:19 PM	CP83TG	1	21/08/2023 9:25 AM	XO61QL	1
23/08/2023 2:18 PM	XO00NB	1	21/08/2023 9:34 AM	XO52BT	1
23/08/2023 2:33 PM	XN50SK	1	21/08/2023 10:42 AM	CS17AF	1
23/08/2023 2:41 PM	CP83TG	1	21/08/2023 12:42 PM	CS17AF	1
23/08/2023 3:15 PM	XO00NB	1	21/08/2023 2:27 PM	CS17AF	1
24/08/2023 9:02 AM	XO00NB	1	22/08/2023 7:37 AM	XN94WC	1
24/08/2023 9:57 AM	CP83TG	1	22/08/2023 8:07 AM	XN02EG	1
24/08/2023 9:58 AM	XN50SK	1	22/08/2023 8:09 AM	XO51BT	1
24/08/2023 11:22 AM	CP83TG	1	22/08/2023 8:18 AM	XO52BT	1
24/08/2023 11:26 AM	XN50SK	1	22/08/2023 8:19 AM	CS17AF	1
24/08/2023 11:33 AM	XO00NB	1	22/08/2023 8:39 AM	XO67AJ	1
24/08/2023 1:14 PM	XO72KV	1	22/08/2023 8:53 AM	XO61QL	1
24/08/2023 2:32 PM	XN50SK	1	22/08/2023 9:10 AM	XN86OK	1
24/08/2023 2:56 PM	XO00NB	1	22/08/2023 9:26 AM	XO66TV	1
25/08/2023 7:13 AM	XO47CZ	1	22/08/2023 10:35 AM	XO79OU	1
25/08/2023 7:16 AM	XO42EW	1	22/08/2023 12:34 PM	XN02EG	1

25/08/2023 8:18 AM	XN50SK	1	22/08/2023 1:53 PM	XO79OU	1
25/08/2023 10:00 AM	XO47CZ	1	23/08/2023 8:09 AM	XN06LH	1
25/08/2023 10:01 AM	XO42EW	1	23/08/2023 8:13 AM	XN97PY	1
25/08/2023 10:20 AM	XN50SK	1	23/08/2023 8:41 AM	XN94WC	1
25/08/2023 10:34 AM	CP83TG	1	23/08/2023 8:49 AM	XO51BT	1
25/08/2023 11:13 AM	XO00NB	1	23/08/2023 8:53 AM	XO79OU	1
25/08/2023 11:25 AM	XO47CZ	1	23/08/2023 8:54 AM	XN02EG	1
25/08/2023 11:27 AM	XO42EW	1	23/08/2023 8:57 AM	CI79PF	1
25/08/2023 11:48 AM	XN50SK	1	23/08/2023 9:15 AM	XO52BT	1
25/08/2023 11:53 AM	CP83TG	1	23/08/2023 9:25 AM	XO51JJ	1
28/08/2023 7:20 AM	CP83TG	1	23/08/2023 9:46 AM	XO67AJ	1
28/08/2023 7:40 AM	XO77TV	1	23/08/2023 10:07 AM	XN86OK	1
28/08/2023 7:50 AM	XO00NB	1	23/08/2023 10:15 AM	XO61QL	1
28/08/2023 9:33 AM	CP83TG	1	23/08/2023 10:32 AM	XO66TV	1
28/08/2023 9:35 AM	XO77TV	1	23/08/2023 10:46 AM	BI88CH	1
28/08/2023 11:14 AM	CP83TG	1	23/08/2023 11:04 AM	XN22OO	1
28/08/2023 11:17 AM	XO77TV	1	23/08/2023 11:10 AM	XN02EG	1
28/08/2023 11:23 AM	XO94MQ	1	23/08/2023 11:23 AM	XN73UT	1
28/08/2023 1:07 PM	XO47CZ	1	23/08/2023 11:54 AM	XO35NB	1
28/08/2023 1:08 PM	XO57HG	1	24/08/2023 7:41 AM	XN94WC	1
28/08/2023 1:11 PM	XO42EW	1	24/08/2023 7:49 AM	XN02EG	1
28/08/2023 1:34 PM	CP83TG	1	24/08/2023 8:05 AM	XN06LH	1
28/08/2023 1:37 PM	XO77TV	1	24/08/2023 8:08 AM	XN97PY	1
28/08/2023 2:31 PM	XO32EA	1	24/08/2023 8:18 AM	XO51BT	1
28/08/2023 2:55 PM	CP83TG	1	24/08/2023 8:19 AM	XO52BT	1
28/08/2023 2:59 PM	XO77TV	1	24/08/2023 8:43 AM	XN86OK	1
29/08/2023 7:13 AM	XO22GF	1	24/08/2023 10:02 AM	UPP482	1
29/08/2023 7:18 AM	XO32EA	1	24/08/2023 10:13 AM	XN02EG	1
29/08/2023 11:25 AM	XO14JX	1	24/08/2023 12:30 PM	XO51BT	1
29/08/2023 11:32 AM	XO78TV	1	24/08/2023 1:13 PM	XO52BT	1
29/08/2023 11:34 AM	CP83TG	1	24/08/2023 2:52 PM	XN86OK	1

29/08/2023 11:35 AM	XO77TV	1	24/08/2023 2:57 PM	XO51BT	1
29/08/2023 11:36 AM	XO22GF	1	25/08/2023 7:50 AM	XN02EG	1
29/08/2023 3:11 PM	CP83TG	1	25/08/2023 7:54 AM	XN94WC	1
30/08/2023 7:17 AM	XN50SK	1	25/08/2023 7:55 AM	XN06LH	1
30/08/2023 7:43 AM	XO77TV	1	25/08/2023 8:01 AM	XQ680J	1
30/08/2023 8:04 AM	XO42EW	1	25/08/2023 11:42 AM	XO52BT	1
30/08/2023 8:10 AM	XO32EA	1	25/08/2023 11:43 AM	XN86OK	1
30/08/2023 10:17 AM	XO47CZ	1	25/08/2023 12:11 PM	XO66TV	1
30/08/2023 10:39 AM	XO77TV	1	25/08/2023 12:30 PM	XO51BT	1
30/08/2023 11:13 AM	XO47CZ	1	25/08/2023 12:31 PM	XO67AJ	1
30/08/2023 11:26 AM	XO42EW	1	25/08/2023 12:56 PM	XO52BT	1
30/08/2023 11:40 AM	CP83TG	1	25/08/2023 1:05 PM	XN86OK	1
30/08/2023 11:43 AM	XN50SK	1	25/08/2023 1:15 PM	XO66TV	1
30/08/2023 1:16 PM	XO47CZ	1	25/08/2023 2:03 PM	XO51BT	1
30/08/2023 1:25 PM	XO42EW	1	26/08/2023 7:53 AM	XO51BT	1
30/08/2023 2:23 PM	XO43EW	1	26/08/2023 8:09 AM	CP23QH	1
30/08/2023 2:24 PM	XO47CZ	1	26/08/2023 8:31 AM	XN86OK	1
30/08/2023 2:33 PM	XO26GF	1	26/08/2023 11:57 AM	XO51BT	1
31/08/2023 7:16 AM	XO26GF	1	26/08/2023 12:09 PM	XO61QL	1
31/08/2023 7:23 AM	XO77TV	1	26/08/2023 1:17 PM	CP23QH	1
31/08/2023 8:00 AM	XO94MQ	1	26/08/2023 2:59 PM	XN86OK	1
31/08/2023 8:01 AM	XO00NB	1	28/08/2023 7:42 AM	XN02EG	1
31/08/2023 9:19 AM	XO77TV	1	28/08/2023 7:43 AM	CI79PF	1
31/08/2023 9:33 AM	XO32EA	1	28/08/2023 8:10 AM	XN06LH	1
31/08/2023 9:53 AM	XO26GF	1	28/08/2023 11:19 AM	CK38WU	1
31/08/2023 10:24 AM	CP83TG	1	28/08/2023 11:24 AM	XO52BT	1
31/08/2023 10:29 AM	XO94MQ	1	28/08/2023 11:46 AM	XO51BT	1
31/08/2023 10:44 AM	XO77TV	1	28/08/2023 12:47 PM	XO61QL	1
31/08/2023 10:51 AM	XO00NB	1	28/08/2023 1:02 PM	XO67AJ	1
31/08/2023 10:56 AM	XO32EA	1	28/08/2023 1:41 PM	XO52BT	1
31/08/2023 10:58 AM	XO26GF	1	28/08/2023 1:45 PM	XO66TV	1

31/08/2023 11:36 AM	XO94MQ	1	28/08/2023 2:19 PM	XO51BT	1
31/08/2023 11:47 AM	XO32EA	1	28/08/2023 3:12 PM	XO67AJ	1
31/08/2023 12:40 PM	CP83TG	1	28/08/2023 3:31 PM	XN86OK	1
31/08/2023 12:41 PM	XO77TV	1	29/08/2023 7:52 AM	XN02EG	1
31/08/2023 12:46 PM	XO00NB	1	29/08/2023 8:03 AM	XN94WC	1
31/08/2023 12:49 PM	XO94MQ	1	29/08/2023 8:23 AM	XN06LH	1
31/08/2023 1:16 PM	XO32EA	1	29/08/2023 10:43 AM	XO61QL	1
31/08/2023 1:18 PM	XO26GF	1	29/08/2023 11:00 AM	XO52BT	1
31/08/2023 1:21 PM	XO47CZ	1	29/08/2023 11:18 AM	XN86OK	1
31/08/2023 1:26 PM	XO42EW	1	29/08/2023 11:35 AM	XO51BT	1
31/08/2023 1:52 PM	XO94MQ	1	29/08/2023 11:51 AM	XO66TV	1
31/08/2023 1:59 PM	XO00NB	1	29/08/2023 12:19 PM	XO67AJ	1
31/08/2023 2:31 PM	CP83TG	1	29/08/2023 2:59 PM	XO61QL	1
31/08/2023 2:54 PM	XO32EA	1	29/08/2023 3:00 PM	XN86OK	1
31/08/2023 2:56 PM	XO94MQ	1	29/08/2023 3:09 PM	XO52BT	1
31/08/2023 3:09 PM	XO00NB	1	29/08/2023 3:23 PM	XO51BT	1
			30/08/2023 7:49 AM	XQ680J	1
			30/08/2023 7:57 AM	XN02EG	1
			30/08/2023 8:08 AM	XN94WC	1
			30/08/2023 8:19 AM	XN06LH	1
			30/08/2023 9:05 AM	XN97PY	1
			30/08/2023 9:17 AM	BI88CH	1
			30/08/2023 9:36 AM	XN35OR	1
			30/08/2023 10:12 AM	XO51BT	1
			30/08/2023 10:20 AM	XO52BT	1
			30/08/2023 10:34 AM	XN86OK	1
			30/08/2023 10:51 AM	XO66TV	1
			30/08/2023 11:44 AM	BI88CH	1
			30/08/2023 12:08 PM	XN35OR	1
			30/08/2023 12:20 PM	XO51BT	1
			30/08/2023 12:39 PM	XO52BT	1
			30/08/2023 12:49 PM	XN86OK	1
			30/08/2023 1:07 PM	XO66TV	1
			31/08/2023 7:47 AM	XN94WC	1
			31/08/2023 7:51 AM	XN02EG	1
			31/08/2023 7:56 AM	CI79PF	1
			31/08/2023 9:09 AM	XO52BT	1
			31/08/2023 9:25 AM	BI88CH	1

			31/08/2023 9:46 AM	XN35OR	1
			31/08/2023 10:34 AM	XN86OK	1
			31/08/2023 10:46 AM	XO51BT	1
			31/08/2023 10:54 AM	XO61QL	1
			31/08/2023 11:00 AM	XO67AJ	1
			31/08/2023 12:18 PM	XO52BT	1
			31/08/2023 12:50 PM	BI88CH	1
			31/08/2023 1:02 PM	XN35OR	1
1/09/2023 7:13 AM	XN50SK	1	1/09/2023 8:34 AM	XN02EG	1
1/09/2023 7:14 AM	XO94MQ	1	1/09/2023 8:38 AM	XN94WC	1
1/09/2023 7:18 AM	XO00NB	1	1/09/2023 8:42 AM	XQ680J	1
1/09/2023 7:21 AM	XO22GF	1	1/09/2023 8:46 AM	XN97TQ	1
1/09/2023 7:58 AM	XO42EW	1	1/09/2023 9:23 AM	CK38WU	1
1/09/2023 8:15 AM	XO94MQ	1	1/09/2023 9:35 AM	XO52BT	1
1/09/2023 8:30 AM	XO00NB	1	1/09/2023 9:55 AM	XN35OR	1
1/09/2023 8:53 AM	CP83TG	1	1/09/2023 10:15 AM	XO77FK	1
1/09/2023 9:10 AM	XN50SK	1	1/09/2023 11:18 AM	XO67AJ	1
1/09/2023 9:24 AM	XO94MQ	1	1/09/2023 11:20 AM	XN86OK	1
1/09/2023 9:42 AM	XO00NB	1	1/09/2023 11:23 AM	XO61QL	1
1/09/2023 9:55 AM	BL79TZ	1	1/09/2023 12:14 PM	XO52BT	1
1/09/2023 9:58 AM	XO22GF	1	1/09/2023 12:22 PM	XO51BT	1
1/09/2023 10:44 AM	CP83TG	1	1/09/2023 12:37 PM	XN22OO	1
1/09/2023 10:49 AM	XN50SK	1	4/09/2023 8:11 AM	XN02EG	1
1/09/2023 10:53 AM	XO42EW	1	4/09/2023 8:15 AM	XN94WC	1
1/09/2023 11:19 AM	XO22GF	1	4/09/2023 8:33 AM	CP23QH	1
1/09/2023 12:41 PM	CP83TG	1	4/09/2023 8:58 AM	XO51BT	1
1/09/2023 12:45 PM	XN50SK	1	4/09/2023 9:13 AM	XN35OR	1
1/09/2023 12:49 PM	XO42EW	1	4/09/2023 9:40 AM	XO66TV	1
1/09/2023 1:25 PM	XO22GF	1	4/09/2023 9:59 AM	XO51CZ	1
1/09/2023 2:01 PM	XO94MQ	1	4/09/2023 11:48 AM	CK38WU	1
4/09/2023 7:49 AM	XN24OY	1	4/09/2023 11:50 AM	XN22OO	1
4/09/2023 7:57 AM	XO57HG	1	4/09/2023 11:51 AM	XO61QL	1
4/09/2023 8:08 AM	XN50SK	1	4/09/2023 12:53 PM	XN86OK	1

4/09/2023 8:14 AM	XO77TV	1	4/09/2023 1:05 PM	XO67AJ	1
4/09/2023 9:45 AM	XN24OY	1	5/09/2023 8:02 AM	XN02EG	1
4/09/2023 10:09 AM	XO57HG	1	5/09/2023 8:19 AM	XN94WC	1
4/09/2023 10:14 AM	XO43EW	1	5/09/2023 8:25 AM	XO52BT	1
4/09/2023 11:00 AM	XN24OY	1	5/09/2023 9:11 AM	XO51BT	1
4/09/2023 11:15 AM	XO57HG	1	5/09/2023 9:12 AM	XO66TV	1
4/09/2023 12:01 PM	XN24OY	1	5/09/2023 12:33 PM	XO52BT	1
4/09/2023 1:15 PM	XO57HG	1	5/09/2023 12:51 PM	XN86OK	1
4/09/2023 1:20 PM	XN24OY	1	5/09/2023 1:06 PM	XN35OR	1
4/09/2023 1:57 PM	XO77TV	1	5/09/2023 1:25 PM	XO51BT	1
4/09/2023 2:24 PM	XN24OY	1	6/09/2023 7:44 AM	XO44HG	1
4/09/2023 2:36 PM	XO57HG	1	6/09/2023 7:52 AM	XN94WC	1
4/09/2023 2:49 PM	CP83TG	1	6/09/2023 7:54 AM	XO33OJ	1
5/09/2023 7:22 AM	XO14JX	1	6/09/2023 8:08 AM	XN02EG	1
5/09/2023 7:24 AM	XN24OY	1	6/09/2023 8:21 AM	XO52BT	1
5/09/2023 8:00 AM	XO57HG	1	6/09/2023 11:45 AM	XO77FK	1
5/09/2023 8:07 AM	AC71LL	1	6/09/2023 11:47 AM	XO66TV	1
5/09/2023 8:31 AM	XN24OY	1	6/09/2023 12:30 PM	XO67AJ	1
5/09/2023 8:33 AM	CP83TG	1	6/09/2023 12:31 PM	XN86OK	1
5/09/2023 8:41 AM	XO77TV	1	6/09/2023 12:33 PM	XN22OO	1
5/09/2023 9:14 AM	AC71LL	1	6/09/2023 12:40 PM	XO61QL	1
5/09/2023 9:46 AM	XO57HG	1	6/09/2023 12:57 PM	XN35OR	1
5/09/2023 10:18 AM	XN24OY	1	6/09/2023 1:13 PM	XO51BT	1
5/09/2023 10:32 AM	AC71LL	1	7/09/2023 7:54 AM	XN02EG	1
5/09/2023 10:35 AM	CP83TG	1	7/09/2023 8:11 AM	XN94WC	1
5/09/2023 10:38 AM	XO77TV	1	7/09/2023 8:39 AM	XO51BT	1
5/09/2023 11:16 AM	XN24OY	1	7/09/2023 9:23 AM	XO52BT	1
5/09/2023 11:39 AM	AC71LL	1	7/09/2023 9:26 AM	XN35OR	1
5/09/2023 11:48 AM	XO57HG	1	7/09/2023 10:57 AM	XN86OK	1
5/09/2023 12:41 PM	XN24OY	1	7/09/2023 10:59 AM	XO66TV	1
5/09/2023 12:48 PM	CP83TG	1	7/09/2023 11:01 AM	XO67AJ	1

5/09/2023 12:53 PM	XO77TV	1	7/09/2023 12:31 PM	XO51BT	1
5/09/2023 1:23 PM	XO57HG	1	7/09/2023 1:11 PM	XO52BT	1
5/09/2023 1:27 PM	AC71LL	1	7/09/2023 1:28 PM	XN35OR	1
5/09/2023 1:48 PM	XN24OY	1	7/09/2023 1:38 PM	XO67AJ	1
5/09/2023 2:20 PM	CP83TG	1	8/09/2023 7:42 AM	CI79PF	1
5/09/2023 2:23 PM	XO77TV	1	8/09/2023 7:44 AM	BZ35UD	1
6/09/2023 8:07 AM	CP83TG	1	8/09/2023 7:46 AM	XN94WC	1
6/09/2023 8:29 AM	XO77TV	1	8/09/2023 7:59 AM	XN02EG	1
6/09/2023 10:25 AM	XO57HG	1	8/09/2023 9:07 AM	XO51BT	1
6/09/2023 10:32 AM	XO14JX	1	8/09/2023 9:27 AM	XO52BT	1
6/09/2023 10:40 AM	CP83TG	1	8/09/2023 9:42 AM	XN35OR	1
6/09/2023 10:52 AM	XO16LW	1	8/09/2023 9:54 AM	BI88CH	1
6/09/2023 1:26 PM	XO66KV	1	8/09/2023 10:39 AM	XO67AJ	1
6/09/2023 2:15 PM	XO16LW	1	8/09/2023 12:00 PM	XO51BT	1
6/09/2023 2:44 PM	XO66KV	1	8/09/2023 12:01 PM	XO52BT	1
6/09/2023 3:17 PM	XO43EW	1	8/09/2023 12:22 PM	XN35OR	1
7/09/2023 7:17 AM	XN24OY	1	8/09/2023 12:33 PM	XN86OK	1
7/09/2023 7:26 AM	XO26GF	1	9/09/2023 8:36 AM	CK38WU	1
7/09/2023 8:33 AM	AC71LL	1	9/09/2023 9:07 AM	XN35OR	1
7/09/2023 11:11 AM	XN24OY	1	9/09/2023 9:42 AM	XN22OO	1
7/09/2023 11:36 AM	XO26GF	1	9/09/2023 9:52 AM	CP23QH	1
7/09/2023 11:43 AM	AC71LL	1	9/09/2023 10:50 AM	XO52BT	1
7/09/2023 12:02 PM	XO35HG	1	9/09/2023 11:57 AM	XN86OK	1
7/09/2023 12:45 PM	XN24OY	1	9/09/2023 12:06 PM	XO51BT	1
7/09/2023 1:49 PM	XN24OY	1	9/09/2023 12:24 PM	CK38WU	1
7/09/2023 2:01 PM	AC71LL	1	9/09/2023 12:25 PM	XN35OR	1
7/09/2023 2:18 PM	XO26GF	1	9/09/2023 1:08 PM	CP23QH	1
7/09/2023 2:29 PM	XO43EW	1	9/09/2023 1:56 PM	XN86OK	1
7/09/2023 2:45 PM	XN24OY	1	9/09/2023 1:57 PM	XO52BT	1
8/09/2023 7:28 AM	XN24OY	1	9/09/2023 2:42 PM	XO51BT	1
8/09/2023 7:38 AM	XO84MQ	1	9/09/2023 2:44 PM	XN35OR	1

8/09/2023 8:31 AM	XO26GF	1	11/09/2023 8:13 AM	XN02EG	1
8/09/2023 8:54 AM	AC71LL	1	11/09/2023 8:29 AM	XO51BT	1
8/09/2023 9:21 AM	XO84MQ	1	11/09/2023 8:48 AM	XO52BT	1
8/09/2023 9:26 AM	XN24OY	1	11/09/2023 9:06 AM	XO77FK	1
8/09/2023 10:26 AM	XO43EW	1	11/09/2023 9:21 AM	XN86OK	1
8/09/2023 10:49 AM	XO84MQ	1	12/09/2023 7:35 AM	XO33OJ	1
8/09/2023 11:46 AM	XN24OY	1	12/09/2023 7:38 AM	XN09UX	1
8/09/2023 11:47 AM	XO26GF	1	12/09/2023 7:43 AM	XN02EG	1
8/09/2023 11:53 AM	AC71LL	1	12/09/2023 7:48 AM	XN94WC	1
8/09/2023 12:03 PM	XO84MQ	1	12/09/2023 8:14 AM	XO77FK	1
8/09/2023 1:30 PM	XN24OY	1	12/09/2023 8:36 AM	XN86OK	1
8/09/2023 2:01 PM	XO26GF	1	12/09/2023 8:56 AM	CI79PF	1
11/09/2023 7:20 AM	XO43EW	1	12/09/2023 9:30 AM	XO51CZ	1
11/09/2023 7:32 AM	XN24OY	1	12/09/2023 10:15 AM	XO52BT	1
11/09/2023 7:37 AM	XN39DO	1	12/09/2023 11:30 AM	XO51BT	1
11/09/2023 9:42 AM	XN39DO	1	12/09/2023 12:23 PM	XO67AJ	1
11/09/2023 10:22 AM	XN24OY	1	13/09/2023 7:18 AM	CI79PF	1
11/09/2023 10:39 AM	XO57HG	1	13/09/2023 7:26 AM	XN02EG	1
11/09/2023 11:56 AM	XN24OY	1	13/09/2023 7:29 AM	XN94WC	1
11/09/2023 12:01 PM	XN39DO	1	13/09/2023 7:44 AM	XO51BT	1
11/09/2023 12:48 PM	XO47CZ	1	13/09/2023 8:01 AM	XO52BT	1
11/09/2023 12:57 PM	XN24OY	1	13/09/2023 8:27 AM	XO67AJ	1
11/09/2023 1:01 PM	XO57HG	2	13/09/2023 8:43 AM	XO51CZ	1
11/09/2023 2:27 PM	XO57HG	1	13/09/2023 9:16 AM	XO61QL	1
11/09/2023 2:49 PM	XO26GF	1	13/09/2023 9:39 AM	BI88CH	1
11/09/2023 2:56 PM	XO47CZ	1	13/09/2023 9:47 AM	XN35OR	1
12/09/2023 7:16 AM	XN24OY	1	13/09/2023 9:56 AM	XO51BT	1
12/09/2023 7:31 AM	XN39DO	1	13/09/2023 10:27 AM	XO52BT	1
12/09/2023 7:33 AM	XO43EW	1	13/09/2023 10:51 AM	XO67AJ	1
12/09/2023 9:58 AM	XN24OY	1	13/09/2023 11:19 AM	XO51CZ	1
12/09/2023 11:06 AM	XN24OY	1	13/09/2023 11:51 AM	XO61QL	1

12/09/2023 11:20 AM	XN39DO	1	13/09/2023 12:26 PM	BI88CH	1
12/09/2023 12:42 PM	XN24OY	1	14/09/2023 7:45 AM	CI79PF	1
12/09/2023 12:47 PM	XN39DO	1	14/09/2023 7:55 AM	XQ680J	1
12/09/2023 1:25 PM	XO47CZ	1	14/09/2023 8:02 AM	XN94WC	1
12/09/2023 1:50 PM	XN20DC	1	14/09/2023 8:17 AM	XO51BT	1
12/09/2023 1:52 PM	XN24OY	1	14/09/2023 8:32 AM	XO52BT	1
12/09/2023 1:58 PM	XN39DO	1	14/09/2023 8:49 AM	XO67AJ	1
13/09/2023 7:16 AM	XN39DO	1	14/09/2023 9:06 AM	XN86OK	1
13/09/2023 7:51 AM	XO57HG	1	14/09/2023 9:07 AM	XN02EG	1
13/09/2023 8:23 AM	XO22GF	1	14/09/2023 9:33 AM	XO51CZ	1
13/09/2023 9:44 AM	XO26GF	1	14/09/2023 10:34 AM	XO51BT	1
13/09/2023 10:24 AM	XO14JX	1	14/09/2023 11:40 AM	XO52BT	1
13/09/2023 10:43 AM	XO26GF	1	14/09/2023 11:43 AM	XO67AJ	1
13/09/2023 10:44 AM	XN39DO	1	14/09/2023 12:15 PM	XN86OK	1
13/09/2023 10:48 AM	XO22GF	1	14/09/2023 12:32 PM	XO51BT	1
13/09/2023 11:00 AM	XO78TV	1	14/09/2023 1:20 PM	XO52BT	1
13/09/2023 11:45 AM	XO26GF	1	15/09/2023 7:49 AM	XN94WC	1
13/09/2023 11:48 AM	XO22GF	1	15/09/2023 7:57 AM	XQ680J	1
13/09/2023 11:50 AM	XO14JX	1	15/09/2023 8:20 AM	XO51BT	1
13/09/2023 12:02 PM	XN39DO	1	15/09/2023 8:29 AM	XO52BT	1
13/09/2023 1:32 PM	XN39DO	1	17/09/2023 6:53 PM	XO51BT	1
13/09/2023 1:41 PM	XO22GF	1	17/09/2023 7:08 PM	XO52BT	1
13/09/2023 1:48 PM	XO26GF	1	17/09/2023 7:28 PM	XO61QL	1
14/09/2023 7:46 AM	XO22GF	1	17/09/2023 7:42 PM	XO67AJ	1
14/09/2023 8:01 AM	XN50SK	1	17/09/2023 7:57 PM	CP23QH	1
14/09/2023 8:42 AM	XN39DO	1	17/09/2023 8:20 PM	XN86OK	1
14/09/2023 9:01 AM	XN24OY	1	17/09/2023 8:32 PM	XO77FK	1
14/09/2023 10:53 AM	XO22GF	1	17/09/2023 8:51 PM	XO51BT	1
14/09/2023 11:08 AM	XN39DO	1	17/09/2023 9:04 PM	XO52BT	1
14/09/2023 11:10 AM	XN24OY	1	17/09/2023 9:20 PM	XO61QL	1
14/09/2023 11:57 AM	XO22GF	1	17/09/2023 9:55 PM	XO67AJ	1

14/09/2023 12:47 PM	XN39DO	1	17/09/2023 10:26 PM	XN86OK	1
14/09/2023 12:49 PM	XN24OY	1	18/09/2023 12:01 AM	XO51BT	1
14/09/2023 1:46 PM	XO22GF	1	18/09/2023 12:15 AM	XO52BT	1
14/09/2023 2:02 PM	XN39DO	1	19/09/2023 7:37 AM	XN49LP	1
14/09/2023 2:04 PM	XN24OY	1	19/09/2023 7:40 AM	XN94WC	1
14/09/2023 2:37 PM	XO26GF	1	19/09/2023 7:46 AM	XN02EG	1
15/09/2023 7:09 AM	XO43EW	1	19/09/2023 7:51 AM	XN30AO	1
15/09/2023 7:14 AM	XO26GF	1	19/09/2023 7:55 AM	XQ680J	1
15/09/2023 7:25 AM	XN39DO	1	19/09/2023 8:24 AM	XO66KV	1
15/09/2023 10:06 AM	XO26GF	1	19/09/2023 8:38 AM	CS17AF	1
15/09/2023 10:07 AM	XN39DO	1	19/09/2023 10:08 AM	XQ680J	1
15/09/2023 10:15 AM	XO22GF	1	19/09/2023 11:53 AM	XQ680J	1
15/09/2023 10:57 AM	XO22GF	1	20/09/2023 7:35 AM	XN02EG	1
15/09/2023 11:35 AM	XO26GF	1	20/09/2023 7:37 AM	XN49LP	1
15/09/2023 11:38 AM	XN39DO	1	20/09/2023 7:38 AM	CI79PF	1
15/09/2023 12:44 PM	XN39DO	1	20/09/2023 7:45 AM	XN94WC	1
15/09/2023 1:08 PM	XO26GF	1	20/09/2023 8:02 AM	XO52BT	1
15/09/2023 1:46 PM	XN39DO	1	20/09/2023 8:11 AM	XO66KV	1
15/09/2023 1:58 PM	XO26GF	1	20/09/2023 8:32 AM	XO51BT	1
15/09/2023 2:25 PM	XO45HG	1	20/09/2023 8:42 AM	XO67AJ	1
18/09/2023 7:22 AM	XN24OY	1	20/09/2023 8:55 AM	XO77FK	1
18/09/2023 7:28 AM	XO22GF	1	20/09/2023 9:12 AM	XN86OK	1
18/09/2023 7:32 AM	XN39DO	1	20/09/2023 9:22 AM	XO61QL	1
18/09/2023 7:42 AM	XN50SK	1	20/09/2023 9:38 AM	XO66TV	1
18/09/2023 9:36 AM	XN24OY	1	20/09/2023 9:50 AM	BI88CH	1
18/09/2023 9:47 AM	XN39DO	1	20/09/2023 10:06 AM	XN35OR	1
18/09/2023 9:51 AM	XO22GF	1	20/09/2023 10:18 AM	CP23QH	1
18/09/2023 10:35 AM	XN24OY	1	20/09/2023 10:45 AM	XN49LP	1
18/09/2023 10:44 AM	XO22GF	1	20/09/2023 11:23 AM	XO51BT	1
18/09/2023 10:45 AM	XN39DO	1	20/09/2023 11:55 AM	XO67AJ	1
18/09/2023 10:53 AM	XO26GF	1	20/09/2023 12:11 PM	BL23XK	1

18/09/2023 11:37 AM	XN24OY	1	20/09/2023 12:21 PM	XO77FK	1
18/09/2023 11:43 AM	XO22GF	1	20/09/2023 1:44 PM	XN86OK	1
18/09/2023 11:46 AM	XN39DO	1	20/09/2023 1:47 PM	XO61QL	1
18/09/2023 11:49 AM	XO22GF	1	20/09/2023 1:51 PM	XO66TV	1
18/09/2023 1:17 PM	XN24OY	1	20/09/2023 2:11 PM	XN35OR	1
18/09/2023 1:18 PM	XN39DO	1	20/09/2023 2:14 PM	BI88CH	1
18/09/2023 1:20 PM	XO26GF	1	20/09/2023 2:31 PM	CP23QH	1
18/09/2023 1:24 PM	XO22GF	1	20/09/2023 2:37 PM	XO51BT	1
18/09/2023 2:34 PM	XO26GF	1	20/09/2023 3:00 PM	XO67AJ	1
18/09/2023 2:50 PM	XN24OY	1	20/09/2023 4:58 PM	XN86OK	1
18/09/2023 3:01 PM	XN39DO	1	20/09/2023 5:02 PM	XN22OO	1
19/09/2023 7:10 AM	XO22GF	1	20/09/2023 5:09 PM	XO61QL	1
19/09/2023 7:22 AM	XN39DO	1	21/09/2023 7:56 AM	XN02EG	1
19/09/2023 7:23 AM	XN24OY	1	21/09/2023 8:02 AM	XN94WC	1
19/09/2023 9:30 AM	XN39DO	1	21/09/2023 8:23 AM	XO77FK	1
19/09/2023 9:32 AM	XN24OY	1	21/09/2023 8:54 AM	XQ680J	1
19/09/2023 9:45 AM	XO22GF	1	21/09/2023 9:11 AM	XO52BT	1
19/09/2023 10:37 AM	XN39DO	1	21/09/2023 9:52 AM	XO66TV	1
19/09/2023 10:39 AM	XN24OY	1	21/09/2023 10:01 AM	XN35OR	1
19/09/2023 10:40 AM	XO22GF	1	21/09/2023 10:27 AM	XO51BT	1
19/09/2023 11:55 AM	XN39DO	1	21/09/2023 10:42 AM	XN22OO	1
19/09/2023 11:59 AM	XN24OY	1	21/09/2023 10:55 AM	XO61QL	1
19/09/2023 12:37 PM	XO22GF	1	21/09/2023 12:28 PM	XO67AJ	1
19/09/2023 1:11 PM	XN39DO	1	21/09/2023 1:38 PM	XO77FK	1
19/09/2023 1:12 PM	XN24OY	1	21/09/2023 1:45 PM	XN35OR	1
19/09/2023 1:39 PM	XO22GF	1	21/09/2023 1:58 PM	XO51BT	1
20/09/2023 7:14 AM	XN39DO	1	21/09/2023 2:00 PM	XN22OO	1
20/09/2023 7:15 AM	XN24OY	1	21/09/2023 2:23 PM	XO61QL	1
20/09/2023 8:29 AM	XO77TV	1	21/09/2023 2:45 PM	XO52BT	1
20/09/2023 9:19 AM	XN50SK	1	21/09/2023 2:55 PM	XO67AJ	1
20/09/2023 9:28 AM	XN24OY	1	21/09/2023 4:55 PM	XO77FK	1

20/09/2023 9:30 AM	XN39DO	1	21/09/2023 5:08 PM	XN35OR	1
20/09/2023 9:35 AM	XO22GF	1	21/09/2023 5:17 PM	BL23XK	1
20/09/2023 10:26 AM	XN50SK	1	22/09/2023 8:02 AM	XN94WC	1
20/09/2023 10:31 AM	XN39DO	1	22/09/2023 9:14 AM	XO77FK	1
20/09/2023 10:33 AM	XO77TV	1	22/09/2023 9:23 AM	XO66TV	1
20/09/2023 10:34 AM	XO22GF	1	22/09/2023 9:36 AM	BI88CH	1
20/09/2023 10:39 AM	XN24OY	1	22/09/2023 9:49 AM	XN22OO	1
20/09/2023 11:17 AM	XO26GF	1	22/09/2023 10:01 AM	XO51BT	1
20/09/2023 11:37 AM	XO22GF	1	22/09/2023 10:20 AM	XO67AJ	1
20/09/2023 11:38 AM	XN39DO	1	22/09/2023 10:31 AM	XN35OR	1
20/09/2023 11:53 AM	XN50SK	1	22/09/2023 10:45 AM	XO52BT	1
20/09/2023 12:50 PM	XO42EW	1	22/09/2023 11:15 AM	XO77FK	1
20/09/2023 1:10 PM	XO22GF	1	22/09/2023 11:29 AM	XO61QL	1
20/09/2023 1:22 PM	XN24OY	1	22/09/2023 11:44 AM	XO66TV	1
20/09/2023 1:23 PM	XO77TV	1	22/09/2023 12:44 PM	XN22OO	1
20/09/2023 1:29 PM	XN39DO	1	22/09/2023 12:54 PM	XO51BT	1
20/09/2023 2:12 PM	XO22GF	1	22/09/2023 1:07 PM	BI88CH	1
20/09/2023 2:17 PM	XN24OY	1	22/09/2023 1:20 PM	XO67AJ	1
20/09/2023 2:18 PM	XO42EW	1	22/09/2023 2:12 PM	XO52BT	1
20/09/2023 2:20 PM	XO42GF	1	25/09/2023 7:57 AM	XN02EG	1
20/09/2023 2:21 PM	XO16LW	1	25/09/2023 9:54 AM	XO61QL	1
20/09/2023 2:29 PM	XO55HG	1	25/09/2023 10:11 AM	XO66TV	1
20/09/2023 2:33 PM	XO92MQ	1	25/09/2023 10:42 AM	XO52BT	1
20/09/2023 3:03 PM	XN50SK	1	25/09/2023 11:06 AM	XO51BT	1
21/09/2023 7:24 AM	XN39DO	1	25/09/2023 2:47 PM	XO61QL	1
21/09/2023 8:41 AM	XN50SK	1	25/09/2023 2:49 PM	XO52BT	1
21/09/2023 9:01 AM	XN24OY	1	26/09/2023 7:48 AM	XQ680J	1
21/09/2023 9:20 AM	XN39DO	1	26/09/2023 7:56 AM	XN02EG	1
21/09/2023 10:07 AM	XN50SK	1	26/09/2023 7:57 AM	CI79PF	1
21/09/2023 10:31 AM	XN24OY	1	26/09/2023 8:02 AM	XN94WC	1
21/09/2023 10:34 AM	XN39DO	1	26/09/2023 8:03 AM	XN30AO	1

21/09/2023 12:54 PM	XN24OY	1	26/09/2023 9:13 AM	XO52BT	1
21/09/2023 2:37 PM	XO42EW	1	26/09/2023 9:32 AM	XN35OR	1
22/09/2023 7:46 AM	XO57HG	1	26/09/2023 9:39 AM	XO61QL	1
22/09/2023 7:48 AM	XO22GF	1	26/09/2023 10:03 AM	CK38WU	1
22/09/2023 1:04 PM	XO22GF	1	26/09/2023 10:05 AM	XO51BT	1
22/09/2023 1:10 PM	XN50SK	1	26/09/2023 10:09 AM	XO67AJ	1
25/09/2023 7:14 AM	XO47CZ	1	26/09/2023 11:39 AM	XO52BT	1
25/09/2023 7:25 AM	XO42EW	1	26/09/2023 12:15 PM	XN35OR	1
25/09/2023 7:30 AM	XO57HG	1	26/09/2023 12:18 PM	XO61QL	1
25/09/2023 7:31 AM	XO26GF	1	26/09/2023 12:40 PM	XO51BT	1
25/09/2023 7:50 AM	XO22GF	1	26/09/2023 12:54 PM	XO67AJ	1
25/09/2023 9:30 AM	XO57HG	1	27/09/2023 7:38 AM	CP60LI	1
25/09/2023 9:57 AM	XO47CZ	1	27/09/2023 7:42 AM	CI79PF	1
25/09/2023 9:58 AM	XO26GF	1	27/09/2023 7:47 AM	XN02EG	1
25/09/2023 10:17 AM	CP60LI	1	27/09/2023 7:49 AM	XN94WC	1
25/09/2023 10:24 AM	XO57HG	1	27/09/2023 8:06 AM	XN49LP	1
25/09/2023 10:47 AM	XO47CZ	1	27/09/2023 8:30 AM	XQ680J	1
25/09/2023 11:00 AM	XO26GF	1	27/09/2023 10:06 AM	CP60LI	1
25/09/2023 11:15 AM	XO57HG	1	27/09/2023 10:21 AM	XO51BT	1
25/09/2023 11:35 AM	XO47CZ	1	27/09/2023 10:35 AM	XO52BT	1
25/09/2023 11:44 AM	XO26GF	1	27/09/2023 10:50 AM	XO67AJ	1
25/09/2023 12:50 PM	XO57HG	1	27/09/2023 11:06 AM	XN35OR	1
25/09/2023 1:24 PM	XO47CZ	1	27/09/2023 11:21 AM	XO77FK	1
25/09/2023 1:27 PM	XO26GF	1	27/09/2023 11:41 AM	XO66TV	1
25/09/2023 1:40 PM	XO57HG	1	27/09/2023 12:27 PM	XO51BT	2
25/09/2023 2:10 PM	XO47CZ	1	27/09/2023 12:41 PM	XO67AJ	1
25/09/2023 2:13 PM	XO26GF	1	27/09/2023 12:59 PM	BI88CH	1
25/09/2023 2:43 PM	XO00NB	1	27/09/2023 2:29 PM	XQ680J	1
26/09/2023 7:13 AM	XO47CZ	1	28/09/2023 7:36 AM	XO33OJ	1
26/09/2023 7:17 AM	XO57HG	1	28/09/2023 7:40 AM	XN02EG	1
26/09/2023 7:54 AM	XO26GF	1	28/09/2023 7:48 AM	XN94WC	1

26/09/2023 8:00 AM	XO22GF	1	28/09/2023 8:08 AM	XQ680J	1
26/09/2023 8:04 AM	XO47CZ	1	28/09/2023 8:24 AM	XO77FK	1
26/09/2023 8:17 AM	XO57HG	1	28/09/2023 8:48 AM	XO66TV	1
26/09/2023 8:40 AM	XO26GF	1	28/09/2023 8:59 AM	XN35OR	1
26/09/2023 8:49 AM	XO47CZ	1	29/09/2023 7:30 AM	XO51CZ	1
26/09/2023 9:46 AM	XO57HG	1	29/09/2023 7:48 AM	XN35OR	1
26/09/2023 10:19 AM	XO26GF	1	29/09/2023 8:04 AM	BI88CH	1
26/09/2023 10:21 AM	XO47CZ	1	29/09/2023 8:53 AM	CK38WU	1
26/09/2023 10:41 AM	XO57HG	1	29/09/2023 10:07 AM	XO52BT	1
26/09/2023 11:06 AM	XO26GF	1	29/09/2023 10:20 AM	XO51BT	1
26/09/2023 11:18 AM	XO47CZ	1	29/09/2023 10:37 AM	XO51CZ	1
26/09/2023 12:44 PM	XO57HG	1	29/09/2023 10:58 AM	XN35OR	1
26/09/2023 12:45 PM	XO26GF	1	29/09/2023 11:09 AM	BI88CH	1
26/09/2023 1:27 PM	XO47CZ	1	29/09/2023 11:39 AM	XO61QL	1
26/09/2023 1:44 PM	XO57HG	2	29/09/2023 11:46 AM	XO77FK	1
27/09/2023 7:13 AM	XO47CZ	1	29/09/2023 12:42 PM	XO52BT	1
27/09/2023 7:21 AM	XN50SK	1	29/09/2023 1:12 PM	XO51BT	1
27/09/2023 7:23 AM	XO22GF	1	29/09/2023 1:19 PM	XO51CZ	1
27/09/2023 8:07 AM	XO47CZ	1	29/09/2023 1:20 PM	XN35OR	1
27/09/2023 8:17 AM	XN50SK	1	29/09/2023 1:23 PM	XO67AJ	1
27/09/2023 8:38 AM	XO26GF	1	29/09/2023 1:24 PM	BI88CH	1
27/09/2023 8:56 AM	XO47CZ	1	29/09/2023 2:02 PM	XO61QL	1
27/09/2023 9:26 AM	XN50SK	1			
27/09/2023 10:09 AM	XO26GF	1			
27/09/2023 10:11 AM	XO47CZ	1			
27/09/2023 10:16 AM	XQ22RL	1			
27/09/2023 10:19 AM	XN50SK	1			
27/09/2023 10:39 AM	XO22GF	1			
27/09/2023 10:55 AM	XO26GF	1			
27/09/2023 10:58 AM	XO47CZ	1			
27/09/2023 11:11 AM	XN50SK	1			

27/09/2023 11:38 AM	XO26GF	1			
27/09/2023 11:45 AM	XO47CZ	1			
27/09/2023 11:51 AM	XO32EA	1			
27/09/2023 12:44 PM	XN50SK	1			
27/09/2023 1:02 PM	XO43EW	1			
27/09/2023 1:15 PM	XO47CZ	1			
27/09/2023 1:17 PM	XO22GF	1			
27/09/2023 1:36 PM	XN50SK	1			
27/09/2023 1:48 PM	XO22GF	1			
27/09/2023 1:54 PM	XO47CZ	1			
27/09/2023 2:00 PM	XO26GF	1			
28/09/2023 7:12 AM	XO26GF	1			
28/09/2023 7:29 AM	XO57HG	1			
28/09/2023 7:42 AM	XO47CZ	1			
28/09/2023 7:45 AM	XO22GF	1			
28/09/2023 8:18 AM	XO26GF	1			
28/09/2023 8:29 AM	XO57HG	1			
28/09/2023 8:31 AM	XO47CZ	1			
28/09/2023 8:34 AM	XO22GF	1			
28/09/2023 11:45 AM	CX69MK	1			
29/09/2023 7:52 AM	XO66KV	1			
29/09/2023 9:26 AM	XO66KV	1			
29/09/2023 10:54 AM	XO66KV	1			
29/09/2023 1:15 PM	XO66KV	1			
3/10/2023 7:10 AM	XO72KV	1	3/10/2023 8:05 AM	CI79PF	1
3/10/2023 7:13 AM	XO66KV	1	3/10/2023 8:20 AM	XO61QL	1
3/10/2023 7:15 AM	XO26GF	1	3/10/2023 8:44 AM	BI88CH	1
3/10/2023 7:16 AM	XO16LW	1	3/10/2023 8:49 AM	XN35OR	1
3/10/2023 7:20 AM	XO78KV	1	3/10/2023 9:49 AM	XO52BT	1
3/10/2023 7:25 AM	CK90FH	1	3/10/2023 12:17 PM	XO51BT	1
3/10/2023 7:35 AM	XO78QW	1	3/10/2023 12:33 PM	XO77FK	1

3/10/2023 7:45 AM	XO79QW	1	3/10/2023 12:48 PM	XO61QL	1
3/10/2023 8:05 AM	CP83TG	1	3/10/2023 12:59 PM	BI88CH	1
3/10/2023 8:12 AM	XO43EW	1	3/10/2023 1:12 PM	XO67AJ	1
3/10/2023 9:19 AM	XO72KV	1	3/10/2023 1:28 PM	XN35OR	1
3/10/2023 9:47 AM	XO78KV	1	3/10/2023 1:44 PM	XO52BT	1
3/10/2023 9:51 AM	CK90FH	1	3/10/2023 2:15 PM	XO77FK	1
3/10/2023 9:53 AM	XO26GF	1	3/10/2023 2:16 PM	XO51BT	1
3/10/2023 9:55 AM	XO66KV	1	3/10/2023 2:32 PM	XO61QL	1
3/10/2023 9:57 AM	XO16LW	1	3/10/2023 3:24 PM	XO67AJ	1
3/10/2023 10:02 AM	XO78QW	1	4/10/2023 7:45 AM	XN02EG	1
3/10/2023 10:10 AM	XO79QW	1	4/10/2023 7:54 AM	XQ680J	1
3/10/2023 10:11 AM	CP83TG	1	4/10/2023 8:29 AM	DF98EF	1
3/10/2023 10:16 AM	XO43EW	1	4/10/2023 9:02 AM	XO52BT	1
3/10/2023 10:45 AM	XO26GF	1	4/10/2023 9:17 AM	XO61QL	1
3/10/2023 10:49 AM	XO66KV	1	4/10/2023 9:36 AM	BI88CH	1
3/10/2023 10:52 AM	XO78KV	1	4/10/2023 9:49 AM	XN35OR	1
3/10/2023 11:02 AM	CK90FH	1	4/10/2023 12:16 PM	XO51BT	1
3/10/2023 11:04 AM	XO16LW	1	4/10/2023 12:17 PM	XO52BT	1
3/10/2023 11:06 AM	XO72KV	1	4/10/2023 12:18 PM	XO67AJ	1
3/10/2023 11:13 AM	XO78QW	1	4/10/2023 1:06 PM	XO61QL	1
3/10/2023 11:20 AM	XO79QW	1	4/10/2023 2:44 PM	BI88CH	1
3/10/2023 11:25 AM	CP83TG	1	4/10/2023 3:04 PM	XO51BT	1
3/10/2023 11:34 AM	XO43EW	1	5/10/2023 7:49 AM	XN02EG	1
3/10/2023 11:42 AM	XO26GF	1	5/10/2023 7:56 AM	XN94WC	1
3/10/2023 11:43 AM	XO66KV	1	5/10/2023 10:25 AM	XO52BT	1
3/10/2023 12:38 PM	XO78KV	1	5/10/2023 10:53 AM	XO61QL	1
3/10/2023 12:44 PM	CK90FH	1	5/10/2023 12:10 PM	XO51BT	1
3/10/2023 12:45 PM	XO72KV	1	5/10/2023 12:49 PM	XO67AJ	1
3/10/2023 12:49 PM	XO78QW	1	5/10/2023 1:20 PM	XO52BT	1
3/10/2023 1:25 PM	XO16LW	1	5/10/2023 2:28 PM	XO61QL	1
3/10/2023 1:29 PM	XO26GF	1	5/10/2023 2:50 PM	XO51BT	1

3/10/2023 1:31 PM	XO66KV	1	6/10/2023 7:21 AM	BI88CH	1
3/10/2023 2:11 PM	XO72KV	1	6/10/2023 7:41 AM	XO51BT	1
3/10/2023 2:21 PM	XO26GF	1	6/10/2023 7:42 AM	XN02EG	1
4/10/2023 7:10 AM	XO16LW	1	6/10/2023 7:57 AM	XN94WC	1
4/10/2023 7:14 AM	XO66KV	1	6/10/2023 8:07 AM	XO52BT	1
4/10/2023 7:19 AM	XO35NB	1	6/10/2023 8:26 AM	XO67AJ	1
4/10/2023 7:22 AM	XO22GF	1	6/10/2023 8:36 AM	XO61QL	1
4/10/2023 7:28 AM	XO78QW	1	6/10/2023 8:55 AM	XO77FK	1
4/10/2023 7:38 AM	CK90FH	1	6/10/2023 11:23 AM	XO51BT	1
4/10/2023 7:48 AM	XO80OC	1	6/10/2023 12:32 PM	XO52BT	1
4/10/2023 8:00 AM	XO78KV	1	6/10/2023 12:35 PM	BI88CH	1
4/10/2023 8:05 AM	XO35NB	1	6/10/2023 1:13 PM	XO67AJ	1
4/10/2023 8:08 AM	XO78EV	1	6/10/2023 3:35 PM	XO51BT	1
4/10/2023 8:41 AM	XO78QW	1	6/10/2023 3:36 PM	XO52BT	1
4/10/2023 8:45 AM	XO35NB	1	6/10/2023 3:37 PM	XO67AJ	1
4/10/2023 8:52 AM	CK90FH	1	8/10/2023 9:09 PM	XQ680J	1
4/10/2023 9:05 AM	XO80OC	1	8/10/2023 9:18 PM	XB21FO	1
4/10/2023 9:37 AM	XO78EV	1	8/10/2023 11:38 PM	XQ680J	1
4/10/2023 9:42 AM	XO72KV	1	8/10/2023 11:42 PM	BI88CH	1
4/10/2023 10:04 AM	XO78QW	1	8/10/2023 11:50 PM	XO67AJ	1
4/10/2023 10:13 AM	CK90FH	1	8/10/2023 11:51 PM	XO77FK	1
4/10/2023 10:28 AM	XO80OC	1	8/10/2023 11:59 PM	XB21FO	1
4/10/2023 11:02 AM	XO78EV	1	9/10/2023 12:30 AM	XQ680J	1
4/10/2023 11:11 AM	XO78QW	1	9/10/2023 12:53 AM	BI88CH	1
4/10/2023 11:14 AM	XO35NB	1	9/10/2023 1:19 AM	XO67AJ	1
4/10/2023 11:15 AM	XO22GF	1	9/10/2023 1:34 AM	XO77FK	1
4/10/2023 11:19 AM	XO72KV	1	9/10/2023 1:38 AM	XB21FO	1
4/10/2023 11:33 AM	CK90FH	1	9/10/2023 2:41 AM	BI88CH	1
4/10/2023 11:46 AM	XO80OC	1	9/10/2023 3:13 AM	XO67AJ	1
4/10/2023 12:46 PM	XO78EV	1	9/10/2023 3:37 AM	XO77FK	1
4/10/2023 12:48 PM	XO78QW	1	9/10/2023 3:51 AM	XN86OK	1

4/10/2023 12:51 PM	CK90FH	1	9/10/2023 7:45 AM	XO61QL	1
4/10/2023 12:54 PM	XO72KV	1	9/10/2023 7:53 AM	XN06LH	1
4/10/2023 12:56 PM	XO16LW	1	9/10/2023 8:10 AM	XN02EG	1
4/10/2023 1:03 PM	XO78TV	1	9/10/2023 9:28 PM	XQ680J	1
4/10/2023 1:07 PM	XO66KV	1	9/10/2023 9:42 PM	XO52BT	1
4/10/2023 1:09 PM	XO22GF	1	9/10/2023 9:50 PM	BI88CH	1
4/10/2023 1:51 PM	XO16LW	1	9/10/2023 10:57 PM	XN86OK	1
4/10/2023 1:55 PM	XO66KV	1	9/10/2023 11:06 PM	XO67AJ	1
4/10/2023 2:00 PM	XO22GF	1	9/10/2023 11:10 PM	XO52BT	1
4/10/2023 2:27 PM	XO72KV	1	10/10/2023 12:05 AM	BI88CH	1
5/10/2023 7:12 AM	XO72KV	1	10/10/2023 12:43 AM	XN86OK	1
5/10/2023 7:13 AM	XO66KV	1	10/10/2023 2:44 AM	XO52BT	1
5/10/2023 7:14 AM	XO16LW	1	10/10/2023 7:47 AM	XN02EG	1
5/10/2023 7:20 AM	CK90FH	1	10/10/2023 7:50 AM	XN94WC	1
5/10/2023 7:23 AM	XO80OC	1	10/10/2023 8:28 AM	XN30AO	1
5/10/2023 7:29 AM	XO78QW	1	10/10/2023 9:13 PM	XO77FK	1
5/10/2023 7:38 AM	XO78EV	1	10/10/2023 9:46 PM	XO51BT	1
5/10/2023 8:23 AM	XO66KV	2	10/10/2023 10:02 PM	XO52BT	1
5/10/2023 8:30 AM	CK90FH	1	10/10/2023 10:04 PM	BI88CH	1
5/10/2023 8:38 AM	XO80OC	1	11/10/2023 12:35 AM	XN86OK	1
5/10/2023 8:52 AM	XO78QW	1	11/10/2023 12:46 AM	XO77FK	1
5/10/2023 8:55 AM	XN20DC	1	11/10/2023 12:48 AM	XO67AJ	1
5/10/2023 8:57 AM	XO72KV	1	11/10/2023 12:53 AM	XO51BT	1
5/10/2023 9:02 AM	XO78EV	1	11/10/2023 1:47 AM	BI88CH	1
5/10/2023 9:46 AM	CK90FH	1	11/10/2023 7:55 AM	XN94WC	1
5/10/2023 9:49 AM	XO80OC	1	11/10/2023 7:56 AM	XN02EG	1
5/10/2023 10:04 AM	XO78QW	1	11/10/2023 8:45 AM	XN86OK	1
5/10/2023 10:08 AM	XN20DC	1	11/10/2023 9:01 AM	CP23QH	1
5/10/2023 10:17 AM	XO66KV	1	11/10/2023 10:48 AM	XN02EG	1
5/10/2023 10:18 AM	XO16LW	1	11/10/2023 12:00 PM	CP60LI	1
5/10/2023 10:26 AM	XO78EV	1	11/10/2023 12:21 PM	XO51CZ	1

5/10/2023 10:40 AM	XO72KV	1	11/10/2023 12:35 PM	XO35NB	1
5/10/2023 11:02 AM	CK90FH	1	11/10/2023 1:02 PM	XO61QL	1
5/10/2023 11:06 AM	XO80OC	1	11/10/2023 1:21 PM	XN86OK	1
5/10/2023 11:15 AM	XO66KV	1	11/10/2023 1:31 PM	CP23QH	1
5/10/2023 11:16 AM	XO16LW	1	11/10/2023 3:24 PM	XO51CZ	1
5/10/2023 11:20 AM	XO78QW	1	11/10/2023 9:42 PM	XO51BT	1
5/10/2023 11:37 AM	XO78EV	1	11/10/2023 10:00 PM	XO77FK	1
5/10/2023 12:05 PM	XO16LW	1	11/10/2023 10:15 PM	XO52BT	1
5/10/2023 12:06 PM	XO66KV	1	11/10/2023 10:32 PM	BI88CH	1
5/10/2023 12:40 PM	CK90FH	1	12/10/2023 12:03 AM	XN86OK	1
5/10/2023 12:43 PM	XO72KV	1	12/10/2023 12:13 AM	XO51BT	1
5/10/2023 12:51 PM	XO80OC	1	12/10/2023 1:37 AM	XO67AJ	1
5/10/2023 1:04 PM	XO78EV	1	12/10/2023 1:48 AM	XO52BT	1
5/10/2023 1:10 PM	XO78QW	1	12/10/2023 7:29 AM	XN02EG	1
5/10/2023 1:43 PM	XO16LW	1	12/10/2023 7:37 AM	XN30AO	1
5/10/2023 1:44 PM	XO66KV	1	12/10/2023 7:50 AM	XN94WC	1
5/10/2023 1:55 PM	CK90FH	1	13/10/2023 7:57 AM	XN94WC	1
5/10/2023 2:19 PM	XO80OC	1	13/10/2023 11:00 AM	XO77FK	1
5/10/2023 2:36 PM	XO78EV	1	13/10/2023 11:15 AM	XO51BT	1
5/10/2023 2:51 PM	XO78QW	1	13/10/2023 12:26 PM	XO67AJ	1
6/10/2023 7:12 AM	XO26GF	1	13/10/2023 12:41 PM	XO77FK	1
6/10/2023 7:14 AM	XO42EW	1	13/10/2023 1:09 PM	XO51BT	1
6/10/2023 7:23 AM	XO78QW	1	16/10/2023 7:52 AM	XN02EG	1
6/10/2023 7:25 AM	XO66KV	1	16/10/2023 8:11 AM	XO33OJ	1
6/10/2023 7:27 AM	XO16LW	1	16/10/2023 8:13 AM	XN94WC	1
6/10/2023 8:29 AM	XO26GF	1	16/10/2023 9:55 AM	XO52BT	1
6/10/2023 8:38 AM	XO78QW	1	16/10/2023 10:07 AM	BI88CH	1
6/10/2023 8:47 AM	XO66KV	1	16/10/2023 10:52 AM	XN35OR	1
6/10/2023 8:49 AM	XO16LW	1	16/10/2023 10:56 AM	XO51BT	1
6/10/2023 9:44 AM	XO78QW	1	16/10/2023 3:12 PM	XN86OK	1
6/10/2023 10:01 AM	XO42EW	1	17/10/2023 7:48 AM	XO33OJ	1

6/10/2023 10:04 AM	XO26GF	1	17/10/2023 7:55 AM	XN30AO	1
6/10/2023 10:52 AM	XO66KV	1	17/10/2023 8:09 AM	XO06LB	1
6/10/2023 10:53 AM	XO16LW	1	17/10/2023 8:12 AM	XN02EG	1
6/10/2023 11:03 AM	XO78QW	1	17/10/2023 8:14 AM	XN94WC	1
6/10/2023 11:10 AM	XO42EW	1	17/10/2023 8:25 AM	XO52BT	1
6/10/2023 11:33 AM	XO26GF	1	17/10/2023 8:42 AM	BI88CH	1
6/10/2023 11:48 AM	XO66KV	1	17/10/2023 8:59 AM	XN35OR	1
6/10/2023 11:49 AM	XO16LW	1	17/10/2023 10:28 AM	XO77FK	1
6/10/2023 12:52 PM	XO78QW	1	17/10/2023 10:34 AM	XO51BT	1
6/10/2023 12:56 PM	XN50SK	1	17/10/2023 11:13 AM	XN86OK	1
6/10/2023 12:59 PM	XO42EW	1	17/10/2023 11:28 AM	XO52BT	1
6/10/2023 1:19 PM	XO26GF	1	17/10/2023 11:55 AM	BI88CH	1
6/10/2023 2:35 PM	XO78QW	1	17/10/2023 12:08 PM	XO67AJ	1
9/10/2023 7:15 AM	XN50SK	1	17/10/2023 12:26 PM	XN35OR	1
9/10/2023 8:12 AM	XO77TV	1	18/10/2023 7:41 AM	XN94WC	1
9/10/2023 8:44 AM	XN50SK	1	18/10/2023 7:47 AM	XO06LB	1
9/10/2023 9:53 AM	XO77TV	1	18/10/2023 8:01 AM	XO33OJ	1
9/10/2023 10:37 AM	XO42EW	1	18/10/2023 8:09 AM	XO52BT	1
9/10/2023 10:42 AM	XN50SK	1	18/10/2023 8:24 AM	BI88CH	1
9/10/2023 11:34 AM	XO77TV	1	18/10/2023 8:40 AM	XN35OR	1
9/10/2023 11:36 AM	XO42EW	1	19/10/2023 7:37 AM	XO33OJ	1
9/10/2023 1:00 PM	XO43EW	1	19/10/2023 7:47 AM	XN94WC	1
9/10/2023 1:07 PM	XO26GF	1	19/10/2023 8:15 AM	XO52BT	1
9/10/2023 1:24 PM	XO42EW	1	19/10/2023 8:37 AM	XO51CZ	1
9/10/2023 1:34 PM	XN50SK	1	19/10/2023 8:49 AM	BI88CH	1
9/10/2023 1:53 PM	XO77TV	1	19/10/2023 9:16 AM	XN97TQ	1
10/10/2023 7:10 AM	XO43EW	1	19/10/2023 10:38 AM	XO33OJ	1
10/10/2023 7:16 AM	XO78TV	1	19/10/2023 11:11 AM	XO51BT	1
10/10/2023 7:36 AM	XO77TV	1	19/10/2023 11:16 AM	XN86OK	1
10/10/2023 8:31 AM	XO43EW	1	19/10/2023 11:18 AM	XN35OR	1
10/10/2023 9:25 AM	XO77TV	1	19/10/2023 12:21 PM	XO61QL	1

10/10/2023 10:12 AM	XO43EW	1	20/10/2023 7:18 AM	XO78TV	1
10/10/2023 10:28 AM	XO77TV	1	20/10/2023 7:40 AM	XN02EG	1
10/10/2023 11:16 AM	XO43EW	1	20/10/2023 7:49 AM	XO33OJ	1
10/10/2023 12:40 PM	CP83TG	1	20/10/2023 7:55 AM	XN94WC	1
10/10/2023 12:46 PM	XN50SK	1	20/10/2023 8:41 AM	XO52BT	1
10/10/2023 12:49 PM	XO42EW	1	20/10/2023 9:10 AM	XO51CZ	1
10/10/2023 1:10 PM	XO77TV	1	20/10/2023 9:22 AM	BI88CH	1
10/10/2023 1:33 PM	XO43EW	1	20/10/2023 10:03 AM	XN86OK	1
10/10/2023 2:11 PM	XO42EW	1	20/10/2023 11:42 AM	XO33OJ	1
11/10/2023 7:11 AM	XO43EW	1	20/10/2023 11:46 AM	XO52BT	1
11/10/2023 7:13 AM	XN50SK	1	20/10/2023 12:04 PM	XO51CZ	1
11/10/2023 7:16 AM	XO14JX	1	20/10/2023 12:12 PM	BI88CH	1
11/10/2023 7:18 AM	CP83TG	1	20/10/2023 12:24 PM	XO51BT	1
11/10/2023 7:22 AM	XO26GF	1	23/10/2023 7:30 AM	XN02EG	1
11/10/2023 8:27 AM	XO43EW	1	23/10/2023 7:38 AM	XO33OJ	1
11/10/2023 8:38 AM	XN50SK	1	23/10/2023 7:55 AM	BL23XK	1
11/10/2023 8:52 AM	CP83TG	1	23/10/2023 8:08 AM	XO51BT	1
11/10/2023 8:58 AM	XO00NB	1	23/10/2023 8:17 AM	XN06LH	1
11/10/2023 8:59 AM	XO16LW	1	23/10/2023 8:42 AM	XO67AJ	1
11/10/2023 10:17 AM	XO43EW	1	23/10/2023 8:54 AM	XO51CZ	1
11/10/2023 10:22 AM	XN50SK	1	23/10/2023 9:11 AM	XN86OK	1
11/10/2023 10:27 AM	CP83TG	1	23/10/2023 9:23 AM	XN35OR	1
11/10/2023 11:16 AM	XO43EW	1	23/10/2023 9:36 AM	BI88CH	1
11/10/2023 11:37 AM	XN50SK	1	23/10/2023 9:52 AM	XO61QL	1
11/10/2023 11:41 AM	CP83TG	1	23/10/2023 10:05 AM	XO66TV	1
11/10/2023 1:30 PM	XO22GF	1	23/10/2023 10:09 AM	XO33OJ	1
12/10/2023 7:14 AM	XN50SK	1	23/10/2023 10:37 AM	CK38WU	1
12/10/2023 7:21 AM	XO43EW	1	23/10/2023 11:13 AM	BL23XK	1
12/10/2023 7:24 AM	XO22GF	1	23/10/2023 11:21 AM	XO51BT	1
12/10/2023 7:32 AM	XO47CZ	1	23/10/2023 11:53 AM	XO67AJ	1
12/10/2023 7:35 AM	XO16LW	1	24/10/2023 7:31 AM	XO33OJ	1

12/10/2023 8:35 AM	XO22GF	1	24/10/2023 7:53 AM	XO51CZ	1
12/10/2023 8:53 AM	XN50SK	1	24/10/2023 7:57 AM	XN02EG	1
12/10/2023 9:30 AM	XO47CZ	1	24/10/2023 8:00 AM	XN94WC	1
12/10/2023 9:38 AM	XO43EW	1	24/10/2023 8:05 AM	CI79PF	1
12/10/2023 10:12 AM	XO22GF	1	24/10/2023 8:17 AM	XN06LH	1
12/10/2023 10:39 AM	XN50SK	1	24/10/2023 8:29 AM	BL23XK	1
12/10/2023 10:48 AM	XO43EW	1	24/10/2023 8:46 AM	XO67AJ	1
12/10/2023 10:52 AM	XO47CZ	1	24/10/2023 8:59 AM	XN86OK	1
12/10/2023 11:30 AM	XO22GF	1	24/10/2023 9:13 AM	XN35OR	1
12/10/2023 12:56 PM	XN20DC	1	24/10/2023 9:28 AM	BI88CH	1
12/10/2023 1:00 PM	XO47CZ	1	24/10/2023 9:40 AM	CP23QH	1
12/10/2023 1:45 PM	XO22GF	1	24/10/2023 10:01 AM	XO51BT	1
12/10/2023 2:12 PM	XO47CZ	1	24/10/2023 10:14 AM	XO66TV	1
13/10/2023 7:13 AM	XO26GF	1	24/10/2023 12:01 PM	XO33OJ	1
13/10/2023 7:15 AM	XO22GF	1	25/10/2023 8:47 AM	XN30AO	1
13/10/2023 7:22 AM	XO00NB	1	25/10/2023 8:52 AM	YST373	1
13/10/2023 8:02 AM	XO26GF	1	25/10/2023 8:56 AM	XN94WC	1
13/10/2023 8:39 AM	XO26GF	1	25/10/2023 8:58 AM	XN02EG	1
13/10/2023 9:45 AM	XO26GF	1	25/10/2023 9:09 AM	XN06LH	1
13/10/2023 9:50 AM	XO22GF	1	25/10/2023 10:23 AM	CP85HJ	1
13/10/2023 10:10 AM	XO42EW	1	25/10/2023 10:36 AM	XO51CZ	1
13/10/2023 10:23 AM	XO22GF	1	25/10/2023 10:52 AM	XN35OR	1
13/10/2023 10:25 AM	XO26GF	1	25/10/2023 11:15 AM	BI88CH	1
13/10/2023 10:57 AM	XO26GF	1	25/10/2023 11:20 AM	BL23XK	1
13/10/2023 11:02 AM	XO22GF	1	25/10/2023 11:33 AM	XO67AJ	1
13/10/2023 11:29 AM	XO26GF	1	25/10/2023 11:57 AM	XN86OK	1
13/10/2023 11:45 AM	XO42EW	1	25/10/2023 1:13 PM	XO51CZ	1
13/10/2023 12:47 PM	XO26GF	1	25/10/2023 1:29 PM	XN35OR	1
13/10/2023 1:07 PM	XO22GF	1	25/10/2023 1:40 PM	BI88CH	1
13/10/2023 1:20 PM	XO26GF	1	25/10/2023 2:14 PM	BL23XK	1
13/10/2023 1:48 PM	XO26GF	1	26/10/2023 7:23 AM	XO14JX	1

16/10/2023 7:20 AM	XO42EW	1	26/10/2023 7:48 AM	XN02EG	1
16/10/2023 7:23 AM	XO22GF	1	26/10/2023 7:53 AM	XN94WC	1
16/10/2023 7:46 AM	XN50SK	1	29/10/2023 7:34 PM	XO66TV	1
16/10/2023 7:58 AM	XO77TV	1	29/10/2023 7:50 PM	XN86OK	1
16/10/2023 8:09 AM	XO26GF	1	29/10/2023 8:07 PM	XO78KV	1
16/10/2023 8:29 AM	XO47CZ	1	29/10/2023 8:25 PM	CP23QH	1
16/10/2023 8:30 AM	XN50SK	1	30/10/2023 7:48 AM	XN94WC	1
16/10/2023 8:31 AM	XO22GF	1	30/10/2023 7:53 AM	XN02EG	1
16/10/2023 9:04 AM	XO47CZ	1	30/10/2023 8:00 AM	XO62TH	1
16/10/2023 9:07 AM	XN50SK	1	30/10/2023 8:36 AM	XO51BT	1
16/10/2023 9:25 AM	XO77TV	1	30/10/2023 9:06 AM	XO51CZ	1
16/10/2023 9:44 AM	XO26GF	1	30/10/2023 9:21 AM	BI88CH	1
16/10/2023 9:47 AM	XO22GF	1	30/10/2023 9:40 AM	XN35OR	1
16/10/2023 10:04 AM	XO77TV	1	30/10/2023 10:13 AM	CK38WU	1
16/10/2023 10:06 AM	XO47CZ	1	30/10/2023 10:29 AM	BL23XK	1
16/10/2023 10:18 AM	XO22GF	1	30/10/2023 6:42 PM	CI79PF	1
16/10/2023 10:29 AM	XN50SK	1	30/10/2023 8:52 PM	XN19YZ	1
16/10/2023 10:41 AM	XO77TV	1	30/10/2023 9:59 PM	XN86OK	1
16/10/2023 10:46 AM	XO47CZ	1	30/10/2023 10:01 PM	CP23QH	1
16/10/2023 11:01 AM	XO22GF	1	31/10/2023 12:28 AM	XO77FK	1
16/10/2023 11:24 AM	XN50SK	1	31/10/2023 7:37 AM	XN02EG	1
16/10/2023 11:35 AM	XO43EW	1	31/10/2023 7:42 AM	XN94WC	1
16/10/2023 11:39 AM	XN20DC	1	31/10/2023 7:58 AM	XN06LH	1
16/10/2023 11:41 AM	XO22GF	1	31/10/2023 8:16 AM	XO52BT	1
16/10/2023 11:42 AM	XO26GF	1	31/10/2023 8:45 AM	CK38WU	1
16/10/2023 1:02 PM	XO22GF	1	31/10/2023 9:08 AM	XO51CZ	1
16/10/2023 1:04 PM	XO26GF	1	31/10/2023 9:39 AM	BI88CH	1
16/10/2023 2:01 PM	XO22GF	1	31/10/2023 9:42 AM	XN35OR	1
17/10/2023 7:14 AM	XO47CZ	1	31/10/2023 10:28 AM	XN06LH	1
17/10/2023 7:16 AM	XN50SK	1	31/10/2023 11:06 AM	XO67AJ	1
17/10/2023 7:33 AM	XO22GF	1	31/10/2023 11:10 AM	BL23XK	1

17/10/2023 7:40 AM	CP83TG	1	31/10/2023 11:49 AM	XO52BT	1
17/10/2023 7:46 AM	XO77TV	1	31/10/2023 12:46 PM	XO51CZ	1
17/10/2023 8:21 AM	XN50SK	1	31/10/2023 9:49 PM	XO51CZ	1
17/10/2023 8:26 AM	XO22GF	1	31/10/2023 9:56 PM	XO77FK	1
17/10/2023 8:38 AM	XO43EW	1	31/10/2023 10:13 PM	CP23QH	1
17/10/2023 8:52 AM	XO42EW	1			
17/10/2023 9:29 AM	XO26GF	1			
17/10/2023 9:42 AM	XN50SK	1			
17/10/2023 9:55 AM	CP83TG	1			
17/10/2023 9:59 AM	XO22GF	1			
17/10/2023 10:00 AM	XO43EW	1			
17/10/2023 10:16 AM	XO77TV	1			
17/10/2023 10:22 AM	XN50SK	1			
17/10/2023 10:33 AM	CP83TG	1			
17/10/2023 10:50 AM	XO22GF	1			
17/10/2023 11:00 AM	XO43EW	1			
17/10/2023 11:10 AM	XO77TV	1			
17/10/2023 11:18 AM	XN50SK	1			
17/10/2023 11:29 AM	XO47CZ	1			
17/10/2023 1:05 PM	XN50SK	1			
17/10/2023 1:07 PM	CP83TG	1			
17/10/2023 1:08 PM	XO43EW	1			
17/10/2023 1:18 PM	XO42EW	1			
17/10/2023 1:57 PM	XO72KV	1			
18/10/2023 10:09 AM	XO42EW	1			
18/10/2023 11:59 AM	XN50SK	1			
18/10/2023 1:10 PM	XO43EW	2			
18/10/2023 1:40 PM	CP83TG	1			
18/10/2023 1:55 PM	XN50SK	1			
18/10/2023 2:28 PM	CP83TG	1			
18/10/2023 2:42 PM	XO43EW	1			

19/10/2023 8:13 AM	XO43EW	1
19/10/2023 9:55 AM	XO43EW	1
19/10/2023 11:07 AM	XO43EW	1
19/10/2023 12:53 PM	XO43EW	1
19/10/2023 2:02 PM	XO43EW	1
20/10/2023 10:49 AM	XO26GF	1
23/10/2023 7:16 AM	XN50SK	1
23/10/2023 10:48 AM	XN50SK	1
23/10/2023 12:49 PM	XN50SK	1
23/10/2023 2:18 PM	XO32EA	1
23/10/2023 2:41 PM	XO47CZ	1
24/10/2023 7:14 AM	XN50SK	1
24/10/2023 8:58 AM	XN50SK	1
24/10/2023 9:33 AM	XO72KV	1
24/10/2023 10:34 AM	XN50SK	1
24/10/2023 11:19 AM	XO72KV	1
24/10/2023 2:14 PM	XO26GF	1
25/10/2023 7:28 AM	XO47CZ	1
25/10/2023 7:37 AM	XN50SK	1
25/10/2023 7:38 AM	XO22GF	1
25/10/2023 7:57 AM	XO26GF	1
25/10/2023 8:36 AM	XO00NB	1
25/10/2023 10:03 AM	XO47CZ	1
25/10/2023 10:19 AM	XO22GF	1
25/10/2023 10:38 AM	XO47CZ	1
25/10/2023 10:42 AM	XO26GF	1
25/10/2023 10:53 AM	XO22GF	1
25/10/2023 11:02 AM	XN50SK	1
25/10/2023 11:16 AM	XO26GF	2
25/10/2023 11:35 AM	XO22GF	1
25/10/2023 11:36 AM	XN50SK	1

25/10/2023 12:17 PM	XO00NB	1			
26/10/2023 9:36 AM	XO22GF	1			
26/10/2023 9:47 AM	XO47CZ	1			
26/10/2023 9:50 AM	XO00NB	1			
26/10/2023 9:53 AM	XO94MQ	1			
26/10/2023 9:55 AM	XO26GF	1			
26/10/2023 10:24 AM	XO22GF	1			
26/10/2023 10:36 AM	XO26GF	1			
26/10/2023 11:15 AM	XO47CZ	1			
26/10/2023 11:19 AM	XO00NB	1			
30/10/2023 12:42 PM	XO43EW	1			
30/10/2023 1:03 PM	XO77TV	1			
31/10/2023 7:38 AM	XO43EW	1			
31/10/2023 7:39 AM	CP83TG	1			
31/10/2023 12:39 PM	CP83TG	1			
31/10/2023 12:40 PM	XO43EW	1			
31/10/2023 1:11 PM	XO26GF	1			
31/10/2023 1:40 PM	XO22GF	1			
1/11/2023 7:18 AM	XO78QW	1	1/11/2023 7:48 AM	XN02EG	1
1/11/2023 7:20 AM	CK90FH	1	1/11/2023 7:51 AM	CI79PF	1
1/11/2023 7:58 AM	XO77TV	1	1/11/2023 8:24 AM	XN94WC	1
1/11/2023 8:26 AM	XO43EW	1	1/11/2023 8:39 AM	XO51CZ	1
1/11/2023 9:21 AM	CK90FH	1	1/11/2023 9:09 AM	CK38WU	1
1/11/2023 9:24 AM	XO22GF	1	1/11/2023 9:37 AM	XN86OK	1
1/11/2023 9:26 AM	XO78QW	1	1/11/2023 10:06 AM	XO52BT	1
1/11/2023 10:51 AM	XO47CZ	1	1/11/2023 10:52 AM	BI88CH	1
1/11/2023 11:19 AM	XO22GF	1	1/11/2023 10:53 AM	XO67AJ	1
1/11/2023 11:22 AM	CK90FH	1	1/11/2023 11:03 AM	XN35OR	1
1/11/2023 11:24 AM	XO78QW	1	2/11/2023 7:34 AM	XO33OJ	1
1/11/2023 1:14 PM	XO47CZ	1	2/11/2023 7:35 AM	XN94WC	1
1/11/2023 1:18 PM	XO43EW	1	2/11/2023 7:43 AM	XN02EG	1

1/11/2023 1:24 PM	XO77TV	1	2/11/2023 7:58 AM	XN86OK	1
1/11/2023 1:30 PM	XO22GF	1	2/11/2023 8:12 AM	XO78KV	1
1/11/2023 1:32 PM	CK90FH	1	2/11/2023 8:30 AM	XO77FK	1
1/11/2023 1:35 PM	XO78QW	1	2/11/2023 8:48 AM	XN35OR	1
1/11/2023 2:58 PM	XO00NB	1	2/11/2023 9:04 AM	BI88CH	1
1/11/2023 3:05 PM	XO22GF	1	2/11/2023 9:16 AM	XN19YZ	1
2/11/2023 7:12 AM	XO47CZ	1	2/11/2023 9:30 AM	CP23QH	1
2/11/2023 7:19 AM	CI61FI	1	2/11/2023 9:48 AM	BL23XK	1
2/11/2023 7:29 AM	CP83TG	1	2/11/2023 10:05 AM	XO51CZ	1
2/11/2023 7:48 AM	XO77TV	1	2/11/2023 10:25 AM	XO52BT	1
2/11/2023 8:51 AM	XO42EW	1	2/11/2023 10:42 AM	XO67AJ	1
2/11/2023 9:19 AM	XO22GF	1	2/11/2023 10:53 AM	XN86OK	1
2/11/2023 9:20 AM	CI61FI	1	2/11/2023 11:43 AM	XO77FK	1
2/11/2023 10:46 AM	XO26GF	1	2/11/2023 12:02 PM	BL23XK	1
2/11/2023 11:03 AM	XO22GF	1	2/11/2023 12:26 PM	XO52BT	1
2/11/2023 11:04 AM	CI61FI	1	3/11/2023 7:39 AM	BL23XK	1
2/11/2023 11:41 AM	XO26GF	1	3/11/2023 7:58 AM	XO52BT	1
2/11/2023 1:15 PM	XO22GF	1	3/11/2023 8:11 AM	XO67AJ	1
2/11/2023 1:18 PM	CI61FI	1	3/11/2023 8:18 AM	XO33OJ	1
2/11/2023 1:28 PM	XO26GF	1	3/11/2023 8:24 AM	XN94WC	1
3/11/2023 7:09 AM	XO22GF	1	3/11/2023 8:28 AM	XN02EG	1
3/11/2023 7:29 AM	CP83TG	1	3/11/2023 8:41 AM	XN19YZ	1
3/11/2023 7:41 AM	XO77TV	1	3/11/2023 8:56 AM	XO77FK	1
3/11/2023 7:49 AM	XO43EW	1	3/11/2023 9:08 AM	CP60LI	1
3/11/2023 7:57 AM	XN50SK	1	3/11/2023 9:20 AM	CP23QH	1
3/11/2023 8:15 AM	XN20DC	1	3/11/2023 10:02 AM	XO78KV	1
3/11/2023 8:35 AM	CP83TG	1	3/11/2023 10:42 AM	XO35NB	1
3/11/2023 8:37 AM	XO77TV	1	3/11/2023 10:57 AM	XN86OK	1
3/11/2023 8:43 AM	XO26GF	1	3/11/2023 11:18 AM	XO51CZ	1
3/11/2023 9:00 AM	XO00NB	1	3/11/2023 11:35 AM	XN35OR	1
3/11/2023 9:24 AM	XN20DC	1	3/11/2023 11:43 AM	BI88CH	1

3/11/2023 9:53 AM	XO43EW	1	3/11/2023 12:10 PM	CK38WU	1
3/11/2023 9:59 AM	XN50SK	1	3/11/2023 12:27 PM	XN19YZ	1
3/11/2023 10:04 AM	CP83TG	2	3/11/2023 12:39 PM	BL23XK	1
3/11/2023 10:05 AM	XO26GF	1	3/11/2023 1:09 PM	XO16OJ	1
3/11/2023 10:33 AM	CP83TG	1	3/11/2023 1:23 PM	XO52BT	1
3/11/2023 10:34 AM	XO77TV	1	3/11/2023 1:49 PM	XO67AJ	1
3/11/2023 10:37 AM	XO26GF	1	3/11/2023 2:25 PM	XO77FK	1
3/11/2023 10:53 AM	XO43EW	1	7/11/2023 7:42 AM	XO33OJ	1
3/11/2023 10:54 AM	XO47CZ	1	7/11/2023 7:45 AM	XN94WC	1
3/11/2023 11:07 AM	CP83TG	1	7/11/2023 7:49 AM	CI79PF	1
3/11/2023 11:08 AM	XO77TV	1	7/11/2023 8:14 AM	XN02EG	1
3/11/2023 11:12 AM	XO26GF	1	7/11/2023 8:34 AM	XO67AJ	1
3/11/2023 11:40 AM	XN50SK	1	7/11/2023 8:54 AM	BL23XK	1
3/11/2023 11:57 AM	XO47CZ	1	7/11/2023 9:05 AM	XO52BT	1
3/11/2023 12:41 PM	XO43EW	1	7/11/2023 9:55 AM	XO78KV	1
3/11/2023 1:32 PM	XO00NB	1	7/11/2023 10:11 AM	XN86OK	1
3/11/2023 1:39 PM	XO26GF	1	7/11/2023 10:34 AM	XO51CZ	1
3/11/2023 1:40 PM	XO47CZ	1	7/11/2023 10:48 AM	BI88CH	1
3/11/2023 2:54 PM	XO00NB	1	7/11/2023 11:04 AM	XN35OR	1
6/11/2023 7:19 AM	XN50SK	1	7/11/2023 11:17 AM	CP23QH	1
6/11/2023 7:26 AM	XO43EW	1	7/11/2023 11:35 AM	XO77FK	1
6/11/2023 7:34 AM	CP83TG	1	7/11/2023 12:05 PM	CK38WU	1
6/11/2023 7:50 AM	XO77TV	1	7/11/2023 12:22 PM	XO67AJ	1
6/11/2023 8:55 AM	XN50SK	1	7/11/2023 12:49 PM	BL23XK	1
6/11/2023 9:57 AM	XO43EW	1	7/11/2023 1:05 PM	XO52BT	1
6/11/2023 10:18 AM	XN50SK	1	7/11/2023 2:15 PM	XN86OK	1
6/11/2023 11:09 AM	XO43EW	1	7/11/2023 2:16 PM	XO51CZ	1
6/11/2023 11:22 AM	XN50SK	1	7/11/2023 2:18 PM	BI88CH	1
6/11/2023 12:35 PM	CP83TG	1	7/11/2023 2:41 PM	XO78KV	1
6/11/2023 12:37 PM	XO77TV	1	7/11/2023 2:56 PM	XN35OR	1
6/11/2023 12:46 PM	XO43EW	1	8/11/2023 7:32 AM	XN02EG	1

6/11/2023 1:31 PM	XN50SK	1	8/11/2023 7:36 AM	XN94WC	1
6/11/2023 1:50 PM	XO43EW	1	8/11/2023 7:40 AM	CI79PF	1
6/11/2023 1:51 PM	CP83TG	1	8/11/2023 8:02 AM	XO52BT	1
6/11/2023 1:53 PM	XO47CZ	1	8/11/2023 9:08 AM	XO35NB	1
6/11/2023 1:56 PM	XO77TV	1	8/11/2023 9:25 AM	CK38WU	1
7/11/2023 7:15 AM	XO26GF	1	8/11/2023 10:03 AM	XO78KV	1
7/11/2023 7:28 AM	CP83TG	1	8/11/2023 10:17 AM	BL23XK	1
7/11/2023 8:08 AM	XO94MQ	1	8/11/2023 10:32 AM	XN86OK	1
7/11/2023 8:13 AM	XO00NB	1	8/11/2023 10:51 AM	XO67AJ	1
7/11/2023 9:27 AM	XO94MQ	1	8/11/2023 11:12 AM	XO51CZ	1
7/11/2023 9:41 AM	XO00NB	1	8/11/2023 11:26 AM	BI88CH	1
7/11/2023 9:45 AM	CP83TG	1	8/11/2023 11:43 AM	XN35OR	1
7/11/2023 9:57 AM	XN50SK	1	8/11/2023 11:59 AM	XN19YZ	1
7/11/2023 10:18 AM	XO77TV	1	8/11/2023 12:18 PM	CP23QH	1
7/11/2023 10:50 AM	XO94MQ	1	8/11/2023 12:52 PM	XO52BT	1
7/11/2023 11:06 AM	XN50SK	1	8/11/2023 1:44 PM	XN86OK	1
7/11/2023 11:08 AM	XO00NB	1	8/11/2023 1:56 PM	XO35NB	1
7/11/2023 12:07 PM	XO94MQ	1	8/11/2023 2:25 PM	BL23XK	1
7/11/2023 12:40 PM	XO00NB	1	8/11/2023 2:41 PM	XO78KV	1
7/11/2023 12:49 PM	XN50SK	1	9/11/2023 7:40 AM	XN94WC	1
7/11/2023 12:53 PM	XO77TV	1	9/11/2023 7:42 AM	XO24AE	1
7/11/2023 12:57 PM	CP83TG	1	9/11/2023 7:54 AM	XN02EG	1
7/11/2023 1:19 PM	XO94MQ	1	9/11/2023 8:14 AM	XN86OK	1
7/11/2023 2:03 PM	XO00NB	1	9/11/2023 8:15 AM	XN30AO	1
7/11/2023 2:31 PM	XO94MQ	1	9/11/2023 8:30 AM	XN19YZ	1
7/11/2023 3:14 PM	XO00NB	1	9/11/2023 8:45 AM	XO78KV	1
7/11/2023 3:43 PM	XO94MQ	1	9/11/2023 9:20 AM	XO52BT	1
8/11/2023 7:21 AM	CP83TG	1	9/11/2023 9:53 AM	XO67AJ	1
8/11/2023 8:00 AM	XN20DC	1	9/11/2023 11:00 AM	XN19YZ	1
8/11/2023 11:31 AM	CP83TG	1	9/11/2023 11:01 AM	XN86OK	1
8/11/2023 11:36 AM	XN20DC	1	9/11/2023 11:03 AM	XO78KV	1

8/11/2023 12:37 PM	XO77TV	1	9/11/2023 11:07 AM	XO52BT	1
8/11/2023 12:48 PM	XO43EW	1	9/11/2023 11:14 AM	XO67AJ	1
8/11/2023 12:49 PM	XN50SK	1	9/11/2023 12:28 PM	XN86OK	1
8/11/2023 12:50 PM	XO26GF	1	9/11/2023 2:23 PM	XN19YZ	1
8/11/2023 2:04 PM	CP83TG	1	9/11/2023 2:28 PM	XO78KV	1
9/11/2023 7:17 AM	XO22GF	1	9/11/2023 2:34 PM	XO67AJ	1
9/11/2023 7:20 AM	XO43EW	1	10/11/2023 7:52 AM	XN30AO	1
9/11/2023 7:25 AM	CP83TG	1	10/11/2023 8:16 AM	XO51CZ	1
9/11/2023 8:38 AM	XO22GF	1	10/11/2023 8:31 AM	XN19YZ	1
9/11/2023 9:28 AM	CP83TG	1	10/11/2023 8:49 AM	XO35NB	1
9/11/2023 10:53 AM	CP83TG	1	10/11/2023 9:38 AM	XO52BT	1
9/11/2023 1:07 PM	XN82TZ	1	10/11/2023 9:57 AM	XN86OK	1
9/11/2023 1:29 PM	XO77TV	1	10/11/2023 10:49 AM	XO51CZ	1
9/11/2023 1:36 PM	CP83TG	1	10/11/2023 10:56 AM	XN19YZ	1
9/11/2023 2:37 PM	XN82TZ	1	10/11/2023 11:01 AM	XO35NB	1
10/11/2023 7:14 AM	XO43EW	1	10/11/2023 11:09 AM	XO52BT	1
10/11/2023 7:15 AM	CP83TG	1	11/11/2023 8:02 AM	XN19YZ	1
10/11/2023 9:55 AM	XO00NB	1	11/11/2023 8:18 AM	XN86OK	1
10/11/2023 9:59 AM	XO42EW	1	11/11/2023 8:57 AM	XO67AJ	1
10/11/2023 10:43 AM	CP83TG	1	11/11/2023 1:53 PM	XN19YZ	1
10/11/2023 11:30 AM	XO00NB	1	11/11/2023 2:15 PM	XN86OK	1
10/11/2023 11:37 AM	XO82MQ	1	11/11/2023 2:33 PM	XO52BT	1
10/11/2023 1:07 PM	XO77TV	1	13/11/2023 7:52 AM	XN94WC	1
13/11/2023 7:14 AM	XO47CZ	1	13/11/2023 8:09 AM	XO67AJ	1
13/11/2023 7:16 AM	XN50SK	1	13/11/2023 8:30 AM	XN86OK	1
13/11/2023 7:17 AM	XO43EW	1	13/11/2023 8:54 AM	XO51CZ	1
13/11/2023 7:24 AM	XO78QW	1	13/11/2023 9:13 AM	XN19YZ	1
13/11/2023 7:30 AM	CP83TG	1	13/11/2023 9:31 AM	BI88CH	1
13/11/2023 7:37 AM	XO22GF	1	13/11/2023 11:39 AM	XO52BT	1
13/11/2023 7:54 AM	XO00NB	1	13/11/2023 11:57 AM	XO67AJ	1
13/11/2023 8:13 AM	XO82MQ	1	13/11/2023 12:18 PM	XN86OK	1

13/11/2023 8:37 AM	XN50SK	1	13/11/2023 1:58 PM	XN19YZ	1
13/11/2023 8:38 AM	XO43EW	1	13/11/2023 2:18 PM	BI88CH	1
13/11/2023 8:43 AM	XO78QW	1	14/11/2023 7:56 AM	XN94WC	1
13/11/2023 8:52 AM	CP83TG	1	14/11/2023 8:03 AM	XN30AO	1
13/11/2023 9:51 AM	XO00NB	1	14/11/2023 9:56 AM	XO51CZ	1
13/11/2023 9:52 AM	XN50SK	1	14/11/2023 11:05 AM	BI88CH	1
13/11/2023 9:54 AM	XO78QW	1	14/11/2023 11:15 AM	XO52BT	1
13/11/2023 9:56 AM	XO43EW	1	14/11/2023 11:16 AM	XN35OR	1
13/11/2023 10:00 AM	CP83TG	1	14/11/2023 11:30 AM	XN86OK	1
13/11/2023 10:27 AM	XO43EW	1	14/11/2023 11:37 AM	XN30AO	1
13/11/2023 10:34 AM	XN50SK	1	14/11/2023 12:05 PM	CK38WU	1
13/11/2023 10:43 AM	XO78QW	1	14/11/2023 12:24 PM	XN19YZ	1
13/11/2023 10:58 AM	CP83TG	1	14/11/2023 12:41 PM	XO67AJ	1
13/11/2023 11:02 AM	XO43EW	1	14/11/2023 1:09 PM	XO51CZ	1
13/11/2023 11:18 AM	XN50SK	1	14/11/2023 1:59 PM	XO52BT	1
13/11/2023 11:28 AM	XO00NB	1	15/11/2023 7:42 AM	CI79PF	1
13/11/2023 11:35 AM	XO78QW	1	15/11/2023 7:45 AM	XN94WC	1
13/11/2023 1:13 PM	XO00NB	1	15/11/2023 7:53 AM	XB21FO	1
14/11/2023 7:09 AM	XO47CZ	1	15/11/2023 7:58 AM	XN30AO	1
14/11/2023 7:11 AM	XO22GF	1	15/11/2023 8:53 AM	BI88CH	1
14/11/2023 7:28 AM	XN50SK	1	15/11/2023 9:25 AM	XN35OR	1
14/11/2023 7:32 AM	XO16LW	1	15/11/2023 9:36 AM	XN86OK	1
14/11/2023 7:43 AM	XO77TV	1	15/11/2023 9:58 AM	XO52BT	1
14/11/2023 7:44 AM	XO43EW	1	15/11/2023 11:06 AM	BI88CH	1
14/11/2023 8:58 AM	XN50SK	1	15/11/2023 11:55 AM	XN35OR	1
14/11/2023 9:50 AM	XO77TV	1	15/11/2023 1:11 PM	XO67AJ	1
14/11/2023 10:01 AM	XO00NB	1	15/11/2023 1:30 PM	XN86OK	1
14/11/2023 11:35 AM	XO00NB	1	15/11/2023 1:42 PM	XO52BT	1
14/11/2023 11:51 AM	XO14JX	1	15/11/2023 1:56 PM	XN35OR	1
15/11/2023 7:09 AM	XO47CZ	1	16/11/2023 7:49 AM	XN94WC	1
15/11/2023 7:17 AM	XO42GF	1	16/11/2023 8:06 AM	XN02EG	1

15/11/2023 7:18 AM	XN50SK	1	16/11/2023 8:09 AM	XB21FO	1
15/11/2023 7:28 AM	CK90FH	1	16/11/2023 8:21 AM	BI88CH	1
15/11/2023 7:35 AM	XO77TV	1	16/11/2023 8:45 AM	XN35OR	1
15/11/2023 8:08 AM	XN50SK	1	16/11/2023 9:03 AM	XN86OK	1
15/11/2023 8:22 AM	CK90FH	1	16/11/2023 10:35 AM	XN19YZ	1
15/11/2023 8:36 AM	XO77TV	1	16/11/2023 10:57 AM	XO52BT	1
15/11/2023 9:44 AM	XN50SK	1	16/11/2023 11:12 AM	XO67AJ	1
15/11/2023 9:48 AM	CK90FH	1	16/11/2023 12:19 PM	BI88CH	1
15/11/2023 10:01 AM	XO00NB	1	16/11/2023 12:37 PM	XN35OR	1
15/11/2023 10:04 AM	XO77TV	1	16/11/2023 12:46 PM	XN86OK	1
15/11/2023 10:07 AM	XO78TV	1	16/11/2023 1:15 PM	XO52BT	1
15/11/2023 10:49 AM	XO42GF	1	17/11/2023 8:13 AM	XN94WC	1
15/11/2023 10:51 AM	XN50SK	1	17/11/2023 8:17 AM	XN02EG	1
15/11/2023 11:19 AM	CK90FH	1	20/11/2023 7:48 AM	XN02EG	1
15/11/2023 11:27 AM	XO77TV	1	20/11/2023 7:56 AM	XN30AO	1
15/11/2023 1:14 PM	XO77TV	1	20/11/2023 8:22 AM	CR69GC	1
15/11/2023 1:36 PM	XO14JX	1	20/11/2023 8:46 AM	CK38WU	1
15/11/2023 2:05 PM	XO00NB	1	20/11/2023 9:14 AM	XO52BT	1
16/11/2023 7:20 AM	XO42GF	1	20/11/2023 10:48 AM	CR69GC	1
16/11/2023 7:24 AM	XO47CZ	1	20/11/2023 11:07 AM	XN35OR	1
16/11/2023 7:46 AM	XO77TV	1	20/11/2023 11:23 AM	XN86OK	1
16/11/2023 9:48 AM	XO78TV	1	20/11/2023 11:26 AM	BI88CH	1
16/11/2023 11:05 AM	XO78TV	1	20/11/2023 11:29 AM	XO66TV	1
17/11/2023 7:16 AM	XO43EW	1	20/11/2023 11:56 AM	CK38WU	1
17/11/2023 7:18 AM	XO47CZ	1	20/11/2023 12:08 PM	XN19YZ	1
17/11/2023 8:23 AM	XO78TV	1	20/11/2023 12:22 PM	XO52BT	1
17/11/2023 8:30 AM	XO14JX	1	20/11/2023 1:42 PM	CR69GC	1
17/11/2023 9:09 AM	XO43EW	1	22/11/2023 7:54 AM	XN94WC	1
17/11/2023 11:17 AM	XN50SK	1	22/11/2023 8:57 AM	CI79PF	1
17/11/2023 11:40 AM	XO00NB	1	23/11/2023 7:35 AM	XN30AO	1
17/11/2023 1:04 PM	XO00NB	1	23/11/2023 7:39 AM	XN94WC	1

17/11/2023 2:35 PM	XO00NB	1	23/11/2023 9:26 AM	XO51CZ	1
20/11/2023 7:13 AM	XO47CZ	1	23/11/2023 9:50 AM	XN86OK	1
20/11/2023 7:24 AM	XO22GF	1	23/11/2023 10:23 AM	CK38WU	1
20/11/2023 7:42 AM	XO00NB	1	23/11/2023 10:46 AM	XO52BT	1
20/11/2023 7:58 AM	XO78KV	1	23/11/2023 11:05 AM	XN35OR	1
20/11/2023 7:59 AM	XO82MQ	1	23/11/2023 11:21 AM	XN19YZ	1
20/11/2023 8:06 AM	XO16LW	1	23/11/2023 1:07 PM	XN30AO	1
20/11/2023 8:09 AM	XO66KV	1	23/11/2023 1:44 PM	CK38WU	1
20/11/2023 9:02 AM	XO82MQ	2	23/11/2023 2:04 PM	XO52BT	1
20/11/2023 9:06 AM	XO00NB	1	23/11/2023 2:57 PM	XN86OK	1
20/11/2023 9:43 AM	XO16LW	1	24/11/2023 7:37 AM	XO33OJ	1
20/11/2023 9:45 AM	XO66KV	1	24/11/2023 7:49 AM	XN30AO	1
20/11/2023 10:18 AM	XO82MQ	1	24/11/2023 8:26 AM	CK38WU	1
20/11/2023 10:22 AM	XO78KV	1	24/11/2023 8:51 AM	XN86OK	1
20/11/2023 10:37 AM	XO00NB	1	24/11/2023 9:17 AM	XO51CZ	1
20/11/2023 11:17 AM	XO82MQ	1	24/11/2023 9:54 AM	XO33OJ	2
20/11/2023 11:22 AM	XO78KV	1	24/11/2023 11:24 AM	XN35OR	1
20/11/2023 11:54 AM	XO00NB	1	24/11/2023 12:05 PM	XN86OK	1
20/11/2023 12:14 PM	XO82MQ	1	24/11/2023 12:36 PM	XO52BT	1
20/11/2023 12:39 PM	XO78KV	1	27/11/2023 7:54 AM	CR77SM	1
20/11/2023 1:07 PM	XO49VN	1	27/11/2023 8:11 AM	XN30AO	1
20/11/2023 1:24 PM	XO00NB	1	27/11/2023 8:15 AM	XN94WC	1
20/11/2023 1:45 PM	XO78KV	1	27/11/2023 9:04 AM	BI88CH	1
20/11/2023 1:47 PM	XO82MQ	1	27/11/2023 9:31 AM	XO51CZ	1
20/11/2023 2:47 PM	XO78KV	1	27/11/2023 9:49 AM	XN86OK	1
20/11/2023 2:49 PM	XO82MQ	1	27/11/2023 10:50 AM	XO52BT	1
20/11/2023 2:53 PM	XO00NB	1	27/11/2023 11:21 AM	CR77SM	1
21/11/2023 7:10 AM	XO47CZ	1	27/11/2023 11:46 AM	XN35OR	1
21/11/2023 7:12 AM	XN50SK	1	27/11/2023 11:51 AM	XO67AJ	1
21/11/2023 8:57 AM	XO00NB	1	27/11/2023 12:54 PM	BI88CH	1
21/11/2023 10:22 AM	XO00NB	1	27/11/2023 1:31 PM	XN86OK	1

21/11/2023 11:49 AM	XO00NB	1	27/11/2023 1:52 PM	XO52BT	1
21/11/2023 1:23 PM	XO00NB	1	27/11/2023 5:21 PM	XN06LH	1
21/11/2023 2:21 PM	XO94MQ	1	28/11/2023 7:46 AM	XN30AO	1
22/11/2023 7:33 AM	XO47CZ	1	28/11/2023 8:09 AM	XN86OK	1
22/11/2023 7:42 AM	XO00NB	1	28/11/2023 8:51 AM	XO51CZ	1
22/11/2023 7:44 AM	XO94MQ	1	28/11/2023 9:08 AM	XO51BT	1
22/11/2023 8:05 AM	XO26GF	1	28/11/2023 10:34 AM	XO52BT	1
22/11/2023 8:54 AM	XO00NB	1	28/11/2023 10:51 AM	BI88CH	1
22/11/2023 9:01 AM	XO94MQ	1	28/11/2023 10:56 AM	XN35OR	1
22/11/2023 10:08 AM	XO00NB	1	28/11/2023 12:20 PM	XO67AJ	1
22/11/2023 10:24 AM	XO94MQ	1	28/11/2023 1:01 PM	XN86OK	1
22/11/2023 11:35 AM	XO00NB	1	28/11/2023 1:13 PM	XO51CZ	1
22/11/2023 1:04 PM	XO49VN	1	28/11/2023 4:36 PM	XO52BT	1
22/11/2023 2:06 PM	XO26GF	1	29/11/2023 7:17 AM	XN30AO	1
23/11/2023 7:13 AM	XO47CZ	1	29/11/2023 8:24 AM	XO35NB	1
23/11/2023 7:14 AM	XO49VN	1	29/11/2023 8:42 AM	XO51BT	1
23/11/2023 7:25 AM	XO00NB	1	29/11/2023 8:58 AM	XO78KV	1
23/11/2023 8:49 AM	XO47CZ	1	29/11/2023 9:16 AM	CP23QH	1
23/11/2023 9:05 AM	XO00NB	1	29/11/2023 9:46 AM	XO52BT	1
23/11/2023 9:16 AM	XO49VN	1	29/11/2023 9:59 AM	XO67AJ	1
23/11/2023 10:06 AM	XO94MQ	1	29/11/2023 10:26 AM	XN86OK	1
23/11/2023 10:32 AM	XO00NB	1	29/11/2023 10:52 AM	XO51CZ	1
23/11/2023 10:40 AM	XO49VN	1	29/11/2023 11:10 AM	BI88CH	1
23/11/2023 11:59 AM	XO00NB	1	29/11/2023 11:34 AM	XN19YZ	1
23/11/2023 12:59 PM	XO49VN	1	29/11/2023 11:56 AM	XO66TV	1
23/11/2023 2:45 PM	XO47CZ	1	29/11/2023 12:21 PM	XN30AO	1
23/11/2023 2:51 PM	XO49VN	1	29/11/2023 12:39 PM	XO51BT	1
24/11/2023 7:52 AM	XO49VN	1	29/11/2023 1:09 PM	XO78KV	1
24/11/2023 7:53 AM	XO47CZ	1	29/11/2023 2:07 PM	XO35NB	1
24/11/2023 8:50 AM	XN82TZ	1	29/11/2023 2:26 PM	XO52BT	1
24/11/2023 9:33 AM	XO49VN	1	29/11/2023 2:49 PM	XN86OK	1

24/11/2023 10:03 AM	XN82TZ	1	30/11/2023 9:17 AM	XN30AO	1
24/11/2023 11:40 AM	XO49VN	1	30/11/2023 5:07 PM	XN06LH	1
24/11/2023 1:14 PM	XO49VN	1			
27/11/2023 7:18 AM	XO49VN	1			
27/11/2023 7:23 AM	XO47CZ	1			
27/11/2023 8:55 AM	XO49VN	1			
27/11/2023 10:40 AM	XO43EW	1			
27/11/2023 10:48 AM	XN50SK	1			
27/11/2023 11:04 AM	XO77TV	1			
27/11/2023 11:58 AM	XO22GF	1			
27/11/2023 12:59 PM	XO77TV	1			
27/11/2023 1:04 PM	XO49VN	1			
27/11/2023 1:15 PM	XN50SK	1			
28/11/2023 7:12 AM	XO47CZ	1			
28/11/2023 7:18 AM	XN50SK	1			
28/11/2023 7:19 AM	XO43EW	1			
28/11/2023 7:21 AM	XO49VN	1			
28/11/2023 8:42 AM	XO43EW	1			
28/11/2023 8:47 AM	XO49VN	1			
28/11/2023 8:53 AM	XN82TZ	1			
28/11/2023 9:19 AM	XO32EA	1			
28/11/2023 10:23 AM	XO32EA	1			
28/11/2023 10:26 AM	XO43EW	1			
28/11/2023 10:41 AM	XO49VN	1			
28/11/2023 11:09 AM	XN82TZ	1			
28/11/2023 11:17 AM	XO32EA	1			
28/11/2023 11:33 AM	XO43EW	1			
28/11/2023 12:37 PM	XO77TV	1			
28/11/2023 12:40 PM	XN82TZ	1			
28/11/2023 12:49 PM	XO32EA	1			
28/11/2023 12:52 PM	XO49VN	1			

28/11/2023 12:53 PM	XN50SK	1
28/11/2023 1:12 PM	XO43EW	1
28/11/2023 1:15 PM	XO16LW	1
28/11/2023 1:18 PM	XO66KV	1
29/11/2023 7:09 AM	XO47CZ	1
29/11/2023 7:13 AM	XN50SK	1
29/11/2023 7:33 AM	XO77TV	1
29/11/2023 9:06 AM	XO77TV	1
29/11/2023 10:46 AM	XO77FK	1
29/11/2023 11:39 AM	XO14JX	1
29/11/2023 11:57 AM	XO78TV	1
29/11/2023 12:03 PM	XO16LW	1
29/11/2023 1:01 PM	XO43EW	1
29/11/2023 1:05 PM	XO49VN	1
29/11/2023 1:07 PM	XO26GF	1
29/11/2023 2:10 PM	XO26GF	1
29/11/2023 2:12 PM	XO43EW	1
29/11/2023 2:16 PM	XO49VN	1
29/11/2023 2:41 PM	XO63PW	1
29/11/2023 2:48 PM	XO16LW	1
30/11/2023 7:12 AM	XO47CZ	1
30/11/2023 7:15 AM	XO26GF	1
30/11/2023 7:27 AM	XO43EW	1
30/11/2023 9:02 AM	XO47CZ	1
30/11/2023 9:27 AM	XO26GF	1
30/11/2023 9:43 AM	XO43EW	1
30/11/2023 10:48 AM	XO43EW	1
30/11/2023 10:51 AM	XO47CZ	1
30/11/2023 10:53 AM	XO26GF	1
30/11/2023 11:48 AM	XO42EW	1
30/11/2023 12:46 PM	XN20DC	1

30/11/2023 12:59 PM	XO26GF	1			
30/11/2023 1:00 PM	XO43EW	1			
30/11/2023 1:01 PM	XO47CZ	1			
30/11/2023 1:53 PM	XO42EW	1			
30/11/2023 1:57 PM	XO43EW	1			
30/11/2023 2:04 PM	XO77TV	1			
30/11/2023 2:09 PM	XO16LW	1			
30/11/2023 2:21 PM	XO66KV	1			
1/12/2023 7:15 AM	XO26GF	1	1/12/2023 7:21 AM	XN30AO	1
1/12/2023 8:11 AM	XO00NB	1	1/12/2023 7:29 AM	XO33OJ	1
1/12/2023 8:37 AM	XO47CZ	1	1/12/2023 7:51 AM	XO44HG	1
1/12/2023 9:20 AM	XO00NB	1	1/12/2023 7:52 AM	XO66TV	1
1/12/2023 10:30 AM	XO00NB	1	1/12/2023 7:55 AM	XN94WC	1
1/12/2023 11:32 AM	XO43EW	1	1/12/2023 8:16 AM	XO51BT	1
1/12/2023 11:37 AM	XO00NB	1	1/12/2023 8:29 AM	BI88CH	1
1/12/2023 1:14 PM	XO16LW	1	1/12/2023 8:45 AM	XN35OR	1
1/12/2023 1:18 PM	XO42EW	1	1/12/2023 9:00 AM	CP23QH	1
1/12/2023 1:37 PM	XO00NB	1	1/12/2023 9:16 AM	XO78KV	1
1/12/2023 1:57 PM	XO66KV	1	1/12/2023 9:32 AM	CP60LI	1
1/12/2023 2:01 PM	XO77TV	1	1/12/2023 9:44 AM	XO35NB	1
1/12/2023 2:06 PM	XO16LW	1	1/12/2023 10:11 AM	XN86OK	1
4/12/2023 7:13 AM	XO47CZ	1	1/12/2023 11:26 AM	XN19YZ	1
4/12/2023 7:19 AM	XN50SK	1	1/12/2023 11:39 AM	XO33OJ	1
4/12/2023 7:22 AM	XO26GF	1	1/12/2023 11:48 AM	XO51CZ	1
4/12/2023 7:26 AM	XO43EW	1	1/12/2023 12:03 PM	XO52BT	1
4/12/2023 7:29 AM	XO49VN	1	1/12/2023 12:04 PM	XN30AO	1
4/12/2023 8:20 AM	XN50SK	1	1/12/2023 12:15 PM	XO66TV	1
4/12/2023 8:28 AM	XO43EW	1	1/12/2023 12:21 PM	XO51BT	1
4/12/2023 8:31 AM	XO49VN	1	1/12/2023 12:22 PM	XN35OR	1
4/12/2023 9:46 AM	XN50SK	1	1/12/2023 12:38 PM	XN86OK	1
4/12/2023 9:54 AM	CP60LI	1	1/12/2023 1:04 PM	BI88CH	1

4/12/2023 11:53 AM	XO00NB	1	1/12/2023 1:06 PM	XO44HG	1
5/12/2023 7:20 AM	XO49VN	1	1/12/2023 1:25 PM	CP23QH	1
5/12/2023 8:44 AM	XO26GF	1	1/12/2023 1:54 PM	XO78KV	1
5/12/2023 11:22 AM	XO00NB	1	1/12/2023 2:27 PM	CP60LI	1
5/12/2023 12:42 PM	XN82TZ	1	1/12/2023 2:54 PM	XO35NB	1
5/12/2023 2:00 PM	XN82TZ	1	1/12/2023 5:43 PM	XN35OR	1
6/12/2023 7:20 AM	XO26GF	1	4/12/2023 7:20 AM	BZ81PO	1
7/12/2023 7:31 AM	XN50SK	1	4/12/2023 7:25 AM	XN30AO	1
7/12/2023 7:36 AM	XO47CZ	1	4/12/2023 8:06 AM	XO35NB	1
7/12/2023 7:49 AM	XO77TV	1	4/12/2023 8:45 AM	XO78KV	1
7/12/2023 7:57 AM	XO43EW	1	4/12/2023 8:59 AM	XO51BT	1
7/12/2023 8:00 AM	XO26GF	1	4/12/2023 9:32 AM	XO67AJ	1
7/12/2023 8:31 AM	XN50SK	1	4/12/2023 9:50 AM	XO52BT	1
7/12/2023 8:39 AM	XO47CZ	1	4/12/2023 10:06 AM	CK38WU	1
7/12/2023 9:23 AM	XO43EW	1	4/12/2023 10:15 AM	XN86OK	1
7/12/2023 9:25 AM	XO26GF	1	4/12/2023 10:46 AM	XO51CZ	1
8/12/2023 7:19 AM	XN50SK	1	4/12/2023 11:00 AM	BI88CH	1
8/12/2023 7:25 AM	XO49VN	1	4/12/2023 11:10 AM	XN35OR	1
8/12/2023 7:34 AM	XO43EW	1	4/12/2023 11:44 AM	XO66TV	1
8/12/2023 7:41 AM	XO00NB	1	4/12/2023 12:03 PM	CP23QH	1
8/12/2023 7:51 AM	CJ81QI	1	4/12/2023 12:20 PM	XN19YZ	1
8/12/2023 8:15 AM	XN50SK	1	4/12/2023 1:09 PM	XO67AJ	1
8/12/2023 8:29 AM	XO49VN	1	4/12/2023 1:16 PM	XO52BT	1
8/12/2023 8:42 AM	XO43EW	1	4/12/2023 1:31 PM	XO78KV	1
8/12/2023 9:03 AM	XO00NB	1	4/12/2023 2:18 PM	XO35NB	1
8/12/2023 9:09 AM	CJ81QI	1	4/12/2023 2:34 PM	CK38WU	1
8/12/2023 9:25 AM	XN50SK	1	4/12/2023 2:47 PM	XN86OK	1
8/12/2023 9:58 AM	XO49VN	1	4/12/2023 3:08 PM	XO51CZ	1
8/12/2023 10:01 AM	XO43EW	1	4/12/2023 3:21 PM	BI88CH	1
8/12/2023 10:21 AM	XO00NB	1	4/12/2023 3:35 PM	XN35OR	1
8/12/2023 10:34 AM	XN50SK	1	4/12/2023 3:47 PM	XO66TV	1

8/12/2023 10:41 AM	CJ81QI	1	4/12/2023 4:25 PM	CP23QH	1
8/12/2023 11:07 AM	XO49VN	1	4/12/2023 4:41 PM	XN19YZ	1
8/12/2023 11:11 AM	XO43EW	1	4/12/2023 4:48 PM	XO67AJ	1
8/12/2023 11:38 AM	XO00NB	1	5/12/2023 7:35 AM	XN30AO	1
8/12/2023 12:01 PM	CJ81QI	1	5/12/2023 7:38 AM	XO74DI	1
11/12/2023 7:29 AM	XN50SK	1	5/12/2023 7:40 AM	CI79PF	1
11/12/2023 7:37 AM	XO49VN	1	5/12/2023 7:52 AM	XO87MQ	1
11/12/2023 7:46 AM	XO00NB	1	5/12/2023 7:55 AM	XN94WC	1
11/12/2023 7:57 AM	XO77TV	1	5/12/2023 8:12 AM	XO51BT	1
11/12/2023 8:01 AM	XO26GF	1	5/12/2023 8:29 AM	XO52BT	1
11/12/2023 8:30 AM	XN50SK	1	5/12/2023 8:50 AM	XO67AJ	1
11/12/2023 8:49 AM	XO49VN	1	5/12/2023 9:03 AM	XN86OK	1
11/12/2023 9:06 AM	XO00NB	1	5/12/2023 9:29 AM	XO51CZ	1
11/12/2023 9:44 AM	XO77TV	1	5/12/2023 9:46 AM	BI88CH	1
11/12/2023 9:55 AM	XN50SK	1	5/12/2023 10:00 AM	XO74DI	1
11/12/2023 10:08 AM	XO49VN	1	5/12/2023 10:10 AM	XN35OR	1
11/12/2023 10:32 AM	XO00NB	1	5/12/2023 10:19 AM	CP23QH	1
11/12/2023 11:06 AM	CJ28EZ	1	5/12/2023 11:44 AM	XO52BT	1
11/12/2023 11:08 AM	XO77TV	1	5/12/2023 11:50 AM	XO51BT	1
11/12/2023 11:12 AM	CI90UY	1	5/12/2023 12:03 PM	XN86OK	1
11/12/2023 11:14 AM	XN50SK	1	5/12/2023 2:20 PM	XN30AO	1
11/12/2023 11:19 AM	XO49VN	1	6/12/2023 7:28 AM	XN30AO	1
11/12/2023 11:44 AM	XO00NB	1	6/12/2023 7:30 AM	CQ92NK	1
11/12/2023 12:46 PM	XO77TV	1	6/12/2023 8:17 AM	XO52BT	1
11/12/2023 12:54 PM	CI90UY	1	6/12/2023 8:18 AM	XO67AJ	1
11/12/2023 12:58 PM	XN50SK	1	6/12/2023 8:21 AM	XO51BT	1
11/12/2023 1:40 PM	XO00NB	1	6/12/2023 8:37 AM	XN86OK	1
11/12/2023 1:49 PM	XO49VN	1	6/12/2023 8:54 AM	XO51CZ	1
11/12/2023 2:01 PM	XO43EW	1	6/12/2023 9:11 AM	BI88CH	1
11/12/2023 2:06 PM	XN50SK	1	6/12/2023 9:19 AM	CP23QH	1
11/12/2023 2:12 PM	XO77TV	1	6/12/2023 9:34 AM	XO78KV	1

11/12/2023 2:44 PM	CI90UY	1	6/12/2023 9:51 AM	XN35OR	1
11/12/2023 3:41 PM	CJ28EZ	1	6/12/2023 10:18 AM	XO77FK	1
12/12/2023 7:14 AM	XN50SK	1	6/12/2023 10:23 AM	XO52BT	1
12/12/2023 7:19 AM	XO43EW	1	6/12/2023 10:51 AM	XO67AJ	1
12/12/2023 7:24 AM	XO49VN	1	6/12/2023 10:57 AM	XO51BT	1
12/12/2023 7:25 AM	XO26GF	1	6/12/2023 11:09 AM	XN86OK	1
12/12/2023 7:52 AM	XO00NB	1	6/12/2023 11:34 AM	XO51CZ	1
12/12/2023 7:58 AM	XO77TV	1	6/12/2023 11:44 AM	BI88CH	1
12/12/2023 8:00 AM	XO16LW	1	6/12/2023 12:02 PM	CP23QH	1
12/12/2023 8:39 AM	XN50SK	1	6/12/2023 12:06 PM	XN30AO	1
12/12/2023 8:44 AM	XO43EW	1	6/12/2023 12:17 PM	XO78KV	1
12/12/2023 9:10 AM	XO49VN	1	6/12/2023 12:33 PM	XN35OR	1
12/12/2023 9:12 AM	XO16LW	1	6/12/2023 12:54 PM	XO52BT	1
12/12/2023 10:20 AM	XN50SK	1	6/12/2023 1:09 PM	XO67AJ	1
12/12/2023 10:34 AM	XO43EW	1	6/12/2023 1:18 PM	XO51BT	1
12/12/2023 10:44 AM	XO49VN	1	6/12/2023 1:48 PM	XO77FK	1
12/12/2023 11:10 AM	XO77TV	1	6/12/2023 2:19 PM	XN86OK	1
12/12/2023 12:45 PM	XO16LW	1	6/12/2023 2:55 PM	BI88CH	1
12/12/2023 12:46 PM	XO43EW	1	6/12/2023 3:27 PM	XO51CZ	1
12/12/2023 12:47 PM	XO49VN	1	6/12/2023 3:32 PM	XO78KV	1
12/12/2023 2:56 PM	XO26GF	1	6/12/2023 3:50 PM	XO52BT	1
12/12/2023 3:08 PM	XO77TV	1	6/12/2023 4:00 PM	CP23QH	1
13/12/2023 7:11 AM	XO49VN	1	6/12/2023 4:21 PM	XN35OR	1
13/12/2023 7:14 AM	XO16LW	1	6/12/2023 4:39 PM	XO67AJ	1
13/12/2023 7:15 AM	XO00NB	1	6/12/2023 4:48 PM	XO51BT	1
13/12/2023 7:18 AM	XO35NB	1	6/12/2023 5:03 PM	XO77FK	1
13/12/2023 7:22 AM	XO78KV	1	6/12/2023 5:19 PM	XN86OK	1
13/12/2023 7:26 AM	XO77TV	1	6/12/2023 5:35 PM	BI88CH	1
13/12/2023 7:44 AM	XO66KV	1	7/12/2023 8:03 AM	XN30AO	1
13/12/2023 8:55 AM	XO00NB	1	7/12/2023 8:13 AM	XB21FO	1
13/12/2023 8:59 AM	XO78KV	1	7/12/2023 9:37 AM	XO52BT	1

13/12/2023 9:01 AM	XO35NB	1	7/12/2023 9:58 AM	XO67AJ	1
13/12/2023 9:29 AM	XO66KV	1	7/12/2023 10:05 AM	XO51BT	1
13/12/2023 9:39 AM	XO77TV	1	7/12/2023 10:19 AM	XN86OK	1
13/12/2023 9:43 AM	XO49VN	1	7/12/2023 10:37 AM	XN19YZ	1
13/12/2023 10:15 AM	XO43EW	1	7/12/2023 12:07 PM	CK38WU	1
13/12/2023 10:26 AM	XO16LW	1	7/12/2023 12:24 PM	XO52BT	1
13/12/2023 10:36 AM	XO00NB	1	8/12/2023 7:43 AM	XO33OJ	1
13/12/2023 10:52 AM	XO35NB	1	8/12/2023 7:56 AM	XB21FO	1
13/12/2023 11:02 AM	XO78EV	1	8/12/2023 7:58 AM	XO24AE	1
13/12/2023 11:05 AM	XO66KV	1	8/12/2023 11:42 AM	XO33OJ	1
13/12/2023 11:11 AM	XO49VN	1	8/12/2023 6:54 PM	XB21FO	1
13/12/2023 11:16 AM	XO77TV	1	8/12/2023 8:34 PM	CK38WU	1
13/12/2023 11:57 AM	XO63PW	1	8/12/2023 8:50 PM	XO51BT	1
13/12/2023 12:38 PM	XO35NB	1	8/12/2023 9:14 PM	XO78KV	1
13/12/2023 12:42 PM	XO16LW	2	8/12/2023 9:15 PM	XO52BT	1
13/12/2023 12:43 PM	XO66KV	1	8/12/2023 9:28 PM	XN86OK	1
13/12/2023 12:45 PM	XO22GF	1	8/12/2023 9:41 PM	CP23QH	1
13/12/2023 12:53 PM	XO00NB	1	8/12/2023 9:55 PM	XO61QL	1
13/12/2023 1:53 PM	XN82TZ	1	8/12/2023 10:09 PM	XO67AJ	1
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14/12/2023 7:18 AM	XO35NB	1	9/12/2023 1:07 AM	XO61QL	1
14/12/2023 7:19 AM	XO78EV	1	9/12/2023 1:22 AM	XO51BT	1
14/12/2023 7:22 AM	XO78KV	1	9/12/2023 2:13 AM	XO52BT	1
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14/12/2023 7:25 AM	XO00NB	1	9/12/2023 7:10 PM	CK38WU	1

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14/12/2023 9:06 AM	XO00NB	1	10/12/2023 7:45 PM	CK38WU	1
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14/12/2023 12:45 PM	XO55HG	1	12/12/2023 8:27 AM	XO52BT	1
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15/12/2023 12:10 PM	XO35NB	1	19/12/2023 7:43 AM	881LIQ	1

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15/12/2023 1:48 PM	XO78KV	1	20/12/2023 7:45 AM	XO33OJ	1
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18/12/2023 7:18 AM	XO35NB	1	20/12/2023 9:05 AM	CP85HJ	1
18/12/2023 7:21 AM	XO78KV	1			
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18/12/2023 7:31 AM	XN50SK	1			
18/12/2023 7:33 AM	XO00NB	1			
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20/12/2023 1:03 PM	XO78KV	1
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20/12/2023 1:37 PM	XO82MQ	1
20/12/2023 1:49 PM	XO35NB	1
20/12/2023 2:01 PM	XO00NB	1
21/12/2023 7:15 AM	XO22GF	1
21/12/2023 7:31 AM	XO26GF	1



Appendix H

Section 7.11 Contributions

lgr_acc	trn_dte	pst_yer	pst_per	trn_cde	trn_ref	act_val	tot_val	acc_nme	trn_des
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01206.0200.0897	28/02/2023	2023		8	9901 20087/2023	3995.46	3995.46	Contr Cap S7.11 Heavy Haulage	S94 Levies Blakebrook Quarry Feb 2023
01206.0200.0897	31/03/2023	2023		9	9901 20088/2023	13839.09	13839.09	Contr Cap S7.11 Heavy Haulage	S94 Levies Blakebrook Quarry Mar 2023
01206.0200.0897	30/04/2023	2023		10	9901 20089/2023	8473.45	8473.45	Contr Cap S7.11 Heavy Haulage	S94 Levies Blakebrook Quarry Apr 2023
01206.0200.0897	31/05/2023	2023		11	9901 20090/2023	13746.41	13746.41	Contr Cap S7.11 Heavy Haulage	S94 Levies Blakebrook Quarry May 2023
01206.0200.0897	01/07/2023	2024		1	9901 21262/2024	8362.48	8362.48	Internal Charge Statutory Plan	S7.11 Levies Blakebrook Quarry June 2023
01206.0200.0897	30/07/2023	2024		1	9901 21263/2024	5152.53	5152.53	Internal Charge Statutory Plan	S7.11 Levies Blakebrook Quarry July 2023
01206.0200.0897	30/08/2023	2024		2	9901 21264/2024	7642.14	7642.14	Internal Charge Statutory Plan	S7.11 Levies Blakebrook Quarry Aug 2023
01206.0200.0897	30/09/2023	2024		3	9901 21265/2024	6883.39	6883.39	Internal Charge Statutory Plan	S7.11 Levies Blakebrook Quarry Sept 2023
01206.0200.0897	31/10/2023	2024		4	9901 21266/2024	7266.36	7266.36	Internal Charge Statutory Plan	S7.11 Levies Blakebrook Quarry Oct 2023
01206.0200.0897	30/11/2023	2024		5	9901 21267/2024	7984.22	7984.22	Internal Charge Statutory Plan	S7.11 Levies Blakebrook Quarry Nov 2023
01206.0200.0897	31/12/2023	2024		6	9901 21268/2024	8272.22	8272.22	Internal Charge Statutory Plan	S7.11 Levies Blakebrook Quarry Dec 2023



Appendix I

Non-compliance 1: Out of Hours Work



NON-COMPLIANCE REPORT

EPL 3384

550 NIMBIN ROAD
BLAKEBROOK

(EPA Ref. 25505)

November 2023

Non-Compliance Report

for

Blakebrook Quarry

at

**550 Nimbin Road
BLAKEBROOK NSW 2480**

Lismore City Council

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ABN: 60 080 932 837

Document No	Issue	Description	Author	Approved by
ED23/27179	November	Final	██████████	██████████

Contents

SECTION 1 – INTRODUCTION	4
1.1 Background	4
1.2 Site Description	4
1.3 Licensing & Departmental Requirements	5
SECTION 2 – NON-COMPLIANCE DETAILS	5
2.1 Non-Compliance details	5
2.2 Findings and Mitigation	6

SECTION 1 – INTRODUCTION

1.1 Background

Blakebrook Quarry is operated by Northern Rivers Quarry (NRQ) which is a commercial entity owned by Lismore City Council. The Quarry is located at 550 Nimbin Road, Blakebrook, approximately seven (7) kilometres northwest of Lismore on Lot 53 DP 1254990 for Extraction Areas and Lot 54 DP 1254990 for Asphalt Plant and ancillary activity.

Blakebrook Quarry currently operates pursuant to the Minister's Conditions of Approval MP07-0020, dated 20 July 2021, otherwise known as the development approval. The Blakebrook Quarry presently holds an environmental protection licence (EPL 3384) issued by the NSW Environment Protection Authority (EPA), authorising extractive activities of up to 500,000 tonnes per annum, including asphalt production as an ancillary activity. Blakebrook Quarry excavates aggregate material for use on infrastructure development and maintenance with its primary product being basalt. This basalt is primarily utilised as a road base and supply for Asphalt production. The Blakebrook Quarry predominantly supplies products for community road maintenance within the local government area.

1.2 Site Description

The site occupies an area of approximately 128 ha (incorporating 45ha rezoned to C2 Environmental Conservation (gazetted on 18 December 2020)), providing long term security for the biodiversity offset area. Surrounding land is used for agricultural and rural purposes. The location of the Quarry is as shown in Figure 1. Site Location

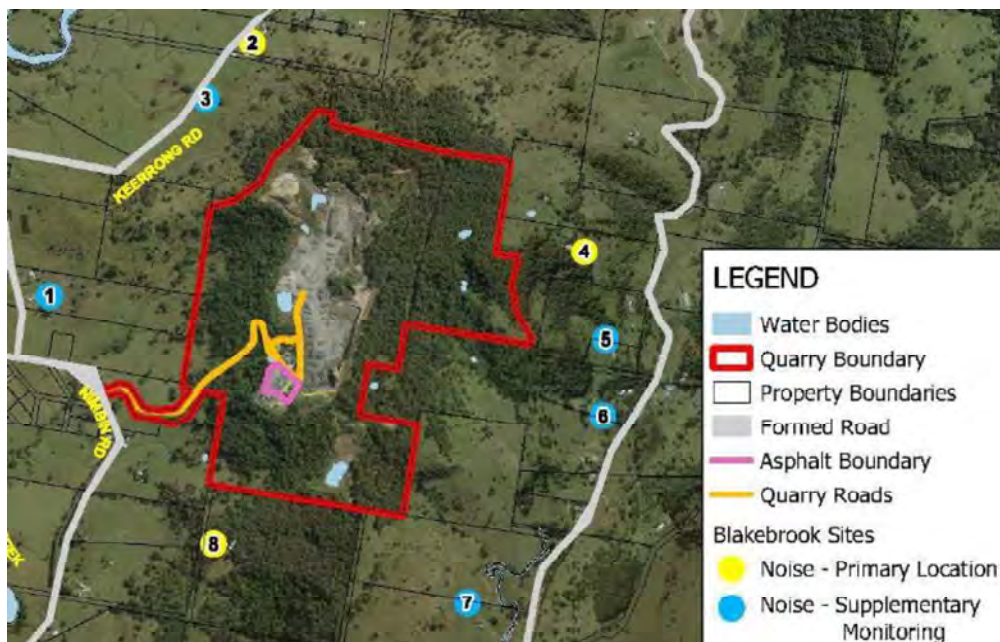


Figure 1. Site Location

1.3 Licensing & Departmental Requirements

In accordance with the Out of Hours Work Protocol (OHWP) governed by EPL L6.3 and Project Approval MP07_0020 Schedule 3, condition 2A:

Out of Hours Work Protocol

Section 3.3 - Notification of Upcoming Out of Hours Operations

RPQ Group will notify the Lismore City Council, EPA and local residents of the timing and expected duration of any out of hours construction works at least 7 days prior to the commencement of any activities. This will occur prior to each instance of out of hours work.

Notification of out of hours work will be provided in writing to the EPA via info@epa.nsw.gov.au at least 7 working days prior to activities commencing. Lismore City Council will notify the EPA on RPQ Group's behalf.

EPL Conditions

L6.3 Out of hours work implemented in accordance with conditions of approval

The licensee may also undertake limited campaign asphalt plant operations (within the limits imposed under Application No: 07_0020, Mod 3, condition 8, Schedule 2), outside of the operating hours prescribed in condition L6.1, as requested by public authorities.

In such circumstances, the licensee must prepare an Out of Hours Work Protocol. This protocol must:

- 1. be prepared in consultation with the EPA and any residents who may be affected by the noise generated by these works; and*
- 2. be approved by the NSW Department of Planning and Environment Secretary prior to the commencement of any out of hours asphalt plant operations.*

MP07_0020 Conditions

Schedule 3, condition 2A

With the prior written agreement of the Secretary, the Proponent may undertake limited campaign asphalt plant operations (within the limits imposed under condition 8 of Schedule 2) outside of the operating hours prescribed in condition 1 of this Schedule, as requested by public authorities.

In such circumstances, the applicant must prepare an Out of Work Hours Work Protocol. This protocol must:

- (a) be prepared in consultation with the EPA and any residents who may be affected by the noise generated by these works; and*
- (b) be approved by the Secretary prior to the commencement of any out of hours Asphalt plant operations.*

SECTION 2 – NON-COMPLIANCE DETAILS

2.1 Non-Compliance details

On 13 November 2023, Council received notification from the Asphalt Plant Operator of a non-compliance with the Out of Hours Work Protocol notification process, whereby Council were not informed of out of hours work that had been undertaken in recent months. Subsequently, failure to notify Council led to failure to notify the EPA in accordance with the OHWP – section 3.3.

Council self-reported this non-compliance to the EPA on 13 November 2023 (EPA ref. 25505).

EPL Condition R2.2 Notification of environmental harm

- R2.1 - Notifications must be made by telephoning the Environment Line service on 131 555.
- R2.2 - The licensee must provide written details of the notification to the EPA within 7 days of the date on which they became aware of the incident.

MP07_0020 – Schedule 5, condition 9 – Non compliance Notification

Within seven days of becoming aware of a non-compliance, the Applicant must notify the Department of the non-compliance. The notification must be in writing via the Major Projects Website and identify the development (including the development application number and name), set out the condition of this consent that the development is non-compliant with, the way in which it does not comply and the reasons for the non-compliance (if known) and what actions have been, or will be, undertaken to address the non-compliance.

This report has been prepared in accordance with EPL R2.2 and MP07_0020 – Schedule 5, condition 9 requirements.

2.2 Findings and Mitigation

Details provided by the Asphalt Plant Operator during Councils investigation revealed that a total of six (6) night shifts over three (3) separate occasions took place between:

- Sunday 30 July 2023 (6pm – 6am)
- Sunday 17 September 2023 (6pm – 6am)
- Sunday 8 October – Wednesday 11 October 2023 (6pm – 6am)

Contributing factors of the non-compliance was attributed to a high staff turnover within the Asphalt Plant operator local office in previous months, exposing knowledge gaps with the OHWP process during the transition period.

All other requirements of the OHWP were adhered to including resident notification. Accordingly, letters providing at least 7 day's notice prior to nightshifts commencing, were distributed via a letter box drop to neighbouring properties.

Council nor the Asphalt Plant Operator received any complaints during the abovementioned timeframes.

The Asphalt Plant Operator takes this non-compliance seriously and sincerely apologises for the oversight. Council is committed to its responsibility to comply with licence conditions and is working with the Asphalt Plant Operator to ensure reassessment of their internal procedures to strengthen succession planning and cross-training in respect to licensing conditions and staff awareness.



Appendix J

Noise Monitoring Assessment

Ambience Audio Services

Acoustic Measurement and Analysis

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Results of Noise Monitoring

Blakebrook Quarry
550 Nimbin Road
Blakebrook NSW 2480

Prepared for

Ecoteam
13 Ewing Street
Lismore NSW 2480

Document Control				
Rev. No	Date	Prepared By		Notes
Final	27/06/2023			

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Table of Contents

1	INTRODUCTION	3
2	NOISE MONITORING REQUIREMENTS	4
3	MEASUREMENT PROCEDURE AND RESULTS	9
3.1	Instrumentation	9
3.2	Measurement Procedure.....	9
3.3	Weather Conditions	10
3.4	Measurement Results	12
3.5	Low Frequency Analysis	13
4	DISCUSSION OF RESULTS	14
5	SUMMARY AND CONCLUSION	17
	APPENDIX A.....	19
	Definitions of Terms	19
	APPENDIX B.....	22
	Comparison of Sound Pressure Levels.....	22
	APPENDIX C	23
	Quarry Operations 7 th and 14 th June 2023.....	23
	APPENDIX D	25
	LAF _{max} Logged Noise Level Graphs 7 th and 14 th June 2023	25

1 INTRODUCTION

Ambience Audio Services have been engaged by Ecoteam to conduct noise monitoring at Blakebrook Quarry, 550 Nimbin Road, Blakebrook NSW.

The current Noise and Blast Management Plan (NBMP) for Blakebrook Quarry (Lismore City Council Oct 2022) includes an Out of Hours Work Protocol (OHWP) for the asphalt plant, which is anticipated to occur 5 nights per month on scheduled projects. Section 7 of the NBMP details the noise monitoring program. Section 7.3 requires noise monitoring to be conducted once every 6 months to represent winter and summer conditions. The noise monitoring and reporting is to be conducted for each assessment time period; Day - 7am to 6pm, Evening – 6pm to 10pm, Night – 10pm to 7am).

Noise monitoring was conducted on the 7th and 14th of June 2023 with the quarry and asphalt plant operating under normal load conditions and suitable weather conditions.

Quarry operations while noise monitoring was conducted for the day time period included: crushing, screening and stockpiling on the northern end of the quarry floor, asphalt production at the mobile plant in the southern section of the quarry, and trucks and loaders on the quarry floor and internal haul roads. A diagram of equipment operating on the quarry floor during noise monitoring at residential receivers is provided in Appendix C.

The asphalt plant was producing hot mix during the day, evening and night time noise monitoring periods. There were truck movements on the internal haul roads, entry/exit haul road and Nimbin Road during the day, evening and night time noise monitoring.

To assist with the interpretation of some of the terminology used in this report, Appendix A provides definitions of acoustic terms. Appendix B is a chart of everyday sound pressure levels.

Appendix D are the logged noise levels for the asphalt plant, above crushing operations on the quarry floor, and at each receiver location.

2 NOISE MONITORING REQUIREMENTS

The noise monitoring requirements for the Blakebrook Quarry are outlined in Section 2.2, Sections 7.1, 7.2, 7.3, 7.4, 7.5 and 7.7 of the NBMP (LCC Oct 2022).

Extracts of the relevant parts are copied below.

Section 2.2

3. *The Proponent must ensure that the noise generated by the project does not exceed the criteria in Table 2 at any residence on privately owned land.*

Table 2: Noise Criteria dB(A)

Receiver	Day L _{Aeq} (15 minute)
Location 2 and 7	36
All other locations	35

Out of Hours Work Protocol – Asphalt Operations

The OHWP has provided management strategies for potential noise sources involving asphalt operations and truck movements. The evening and night project-specific noise level criterion is 35 dB(A) L_{Aeq} (15 minute).

L4.1 Noise from the licenced premises must not exceed an L_{Aeq} (15 minute) noise emission criteria of 36 dB(A) at Location 2 and 7, and 35 dB(A) at all other sensitive receivers, except as expressly provided by in this licence.

7.2 MONITORING LOCATIONS

The original Noise Assessment (ERM 2009) and updated NIA (Mitchel Hanlon, SEE 2019) included six (6) noise monitoring locations that were used throughout the assessment, based on proximity to nearby potentially sensitive receptors. Given the proximity between monitoring locations and the location of anticipated noise-generating plant and equipment, the monitoring locations have been revised and separated into primary and supplementary acoustic monitoring locations for the purposes of the NBMP.

Primary and supplementary acoustic locations are identified in *Figure 2*. Primary acoustic monitoring locations consist of locations 2, 4 and 8 with the remainder of locations being supplementary acoustic monitoring locations.

An agreement was reached with the landowner located along Nimbin Road (previously identified as location 8, ERM 2009) in April 2016, wherein the landowner has agreed to the exceedances in noise levels from Quarry operations. As such the location has been removed as a primary acoustic monitoring location, and a new monitoring location selected being (current) location 8.

Primary monitoring locations will be utilised during noise compliance monitoring and are considered representative in determining compliance with the relevant Conditions of Approval.

In the event that additional monitoring is required then additional monitoring may be undertaken at the most practical supplementary acoustic monitoring locations, as well as at the primary acoustic monitoring locations.

7.4 METHODOLOGY

Noise

Operator attended noise measurements shall be conducted at all primary acoustic measurement locations (Locations 2, 4 and 8 – refer *Figure 2*) to quantify and characterise the maximum (L_{Amax}), the energy equivalent (L_{Aeq}), and the background (L_{A90}) noise levels from ambient noise sources and quarrying operations over a 15 minute measurement period.

The operator shall quantify noise emissions and estimate the L_{Aeq} (Period) noise contribution during Quarry activities, as well as the overall level of ambient noise. During attended monitoring, digital recordings will be conducted to allow for additional post analysis of the Quarry noise levels and source identification.

All acoustic instrumentation employed throughout the monitoring program shall meet with the requirements of AS/NZS IEC 61672.1 Sound level meters Specifications & AS/NZS IEC 61672.2 Sound level meters Pattern Evaluation.

Instrument calibration shall be checked before and after each measurement survey, with the variation in calibrated levels not exceeding ± 0.5 dBa.

7.5 METEOROLOGICAL PARAMETERS

Adverse meteorological conditions have the potential to increase noise levels, for example wind speeds up to 3 m/s or temperature inversions, however wind speeds above 5 m/s (and rainfall) have the potential to generate extraneous and erroneous noise events, which reduce the accuracy and confidence in measured data.

As such, meteorological parameters will be evaluated prior to undertaking works on site, to gain an understanding of the weather conditions and the potential for variations in noise levels.

All noise measurements shall be accompanied by both qualitative description (including cloud cover, approximate wind direction and speed) and quantitative measurements of prevailing local weather conditions throughout the survey period. Rainfall data and meteorological parameters will be collected from the weather station located on-site, as shown in *Table H*.

Table H: Meteorological Measurement Parameters

Measured Parameter	Unit	Sample Interval
Mean Wind Speed	m/s	15 minutes
Mean Wind Direction	Degrees	15 minutes
Aggregate Rainfall	mm	15 minutes
Mean Air Temperature	C°	15 minutes

Accounting For Annoying Noise Characteristics (Low Frequency Noise)

The *Noise Policy for Industry* (NPfI 2017) states that a noise source may exhibit a range of particular characteristics that increase annoyance, such as tones, impulses, low frequency noise and intermittent noise.

Where this is the case, an adjustment ('modifying factor corrections') is applied to the source noise level received at an assessment point before it is compared with criteria to account for the additional annoyance caused by the particular characteristic.

Application of these modifying factors is described in *Fact Sheet C: Corrections for annoying noise characteristics* and outlines correction factors to be applied to the source noise level at the receiver before comparison with the project noise trigger levels to account for the additional annoyance caused by those modifying factors.

The modifying factor corrections should be applied having regard to:

- the contribution noise level from the premises when assessed/measured at a receiver location, and
- the nature of the noise source and its characteristics (as set out in this fact sheet).

The NPfI provides the following definitions to support the modifying factor corrections:

- Tonal Noise – Containing a prominent frequency and characterised by a definite pitch.
- Low Frequency Noise – Containing major components within the low frequency range (20 Hz to 250 Hz) of the frequency spectrum.
- Impulsive Noise – Having a high peak of short duration or a sequence of such peaks.
- Intermittent Noise – The level suddenly drops to that of the background noise several times during the assessment period, with a noticeable change in noise level of at least 5 dB.

The modifying factor corrections (and how they are applied) are present in *Table C1* of the NPfI and vary depending on the noise characteristic being assessed. All noise levels generated by the Quarry, which may generate tonal or low frequency content, will be assessed as part of the NBMP monitoring with due regard to these modifying factor penalties, and in accordance with the requirements presented in the NPfI.

Impulsive and intermittent noise, as defined by the NPfI, are not typical characteristics of the Quarry, hence tonal and low frequency noise (LFN) are most relevant to the Quarry and those modifying corrections are reproduced in *Table 1*.

Tonal Noise	One-third octave band analysis using the objective method for assessing the audibility of tones in noise – simplified method (ISO1996.2:2007 – Annex D)	Level of one-third octave band exceeds the level of the adjacent bands on both sides by: <ul style="list-style-type: none"> • 5 dB or more if the centre frequency of the band containing the tone is in the range 500–10,000 Hz • 8 dB or more if the centre frequency of the band containing the tone is in the range 160–400 Hz • 15 dB or more if the centre frequency of the band containing the tone is in the range 25–125 Hz. 	5 dB ^{2,3}	Third octave measurements should be undertaken using unweighted or Z-weighted measurements. Note: Narrow-band analysis using the reference method in ISO1996-2:2007, Annex C may be required by the consent/regulatory authority where it appears that a tone is not being adequately identified, e.g. where it appears that the tonal energy is at or close to the third octave band limits of contiguous bands.
Low Frequency Noise	Measurement of source contribution C-weighted and A-weighted level and one-third octave measurements in the range 10–160 Hz	Measure/assess source contribution C- and A-weighted Leq,T levels over same time period. Correction to be applied where the C minus A level is 15 dB or more and: <ul style="list-style-type: none"> • where any of the one-third octave noise levels in Table C2 are exceeded by up to and including 5 dB and cannot be mitigated, a 2-dB(A) positive adjustment to measured/predicted A-weighted levels applies for the evening/night period • where any of the one-third octave noise levels in Table C2 are exceeded by more than 5 dB and cannot be mitigated, a 5-dB(A) positive adjustment to measured/predicted A-weighted levels applies for the evening/night period and a 2-dB(A) positive adjustment applies for the daytime period. 	2 or 5 dB ²	A difference of 15 dB or more between C- and A-weighted measurements identifies the potential for an unbalance spectrum and potential increased annoyance. The values in Table C2 are derived from Moorhouse (2011) for DEFRA fluctuating low-frequency noise criteria with corrections to reflect external assessment locations.

Notes:

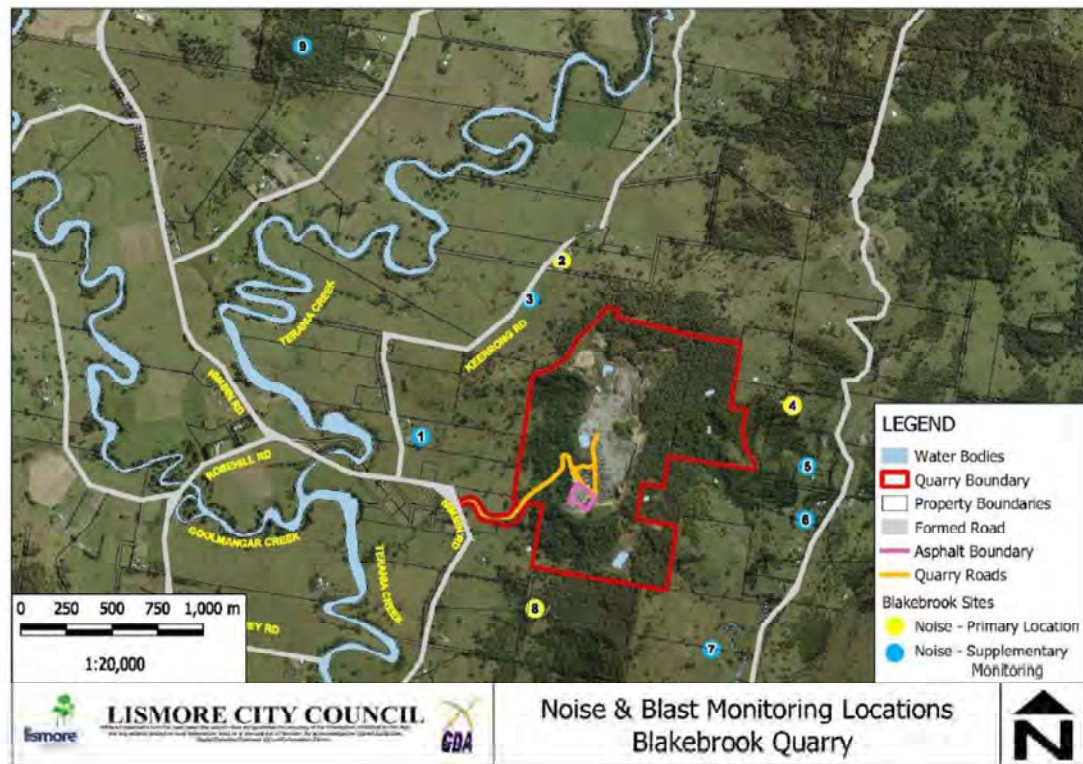
1. Corrections to be added to the measured or predicted levels, except in the case of duration where the adjustment is to be made to the criterion.
2. Where a source emits tonal and low-frequency noise, only one 5-dB correction should be applied if the tone is in the low-frequency range, that is, at or below 160 Hz.
3. Where narrow-band analysis using the reference method is required, as outlined in column 5, the correction will be determined by the ISO1996-2:2007 standard.

Noise monitoring at the receiver locations were conducted within 30m of the residential dwelling in the direction of the quarry.

Table 2.1 Primary Receiver Locations	
Receiver	Street Address
2	█ Keerrong Rd Blakebrook
4	█ Booerie Creek Road Booerie Creek
8	█ Nimbin Rd Blakebrook

Figure 2.1 Noise Monitoring Locations

Figure 2: Noise & Blast Monitoring Locations Map



3 MEASUREMENT PROCEDURE AND RESULTS

3.1 Instrumentation

Table 3.1 Instrumentation		
Instrument	Serial #	Calibration Date
Brüel and Kjaer 2250 G4 Sound Level Meter	3006868	July 2021
Brüel & Kjaer 2250 G4 Sound Level Meter	3008548	Dec 2021
Brüel and Kjaer 2250 G4 Sound Level Meter	3028735	Jan 2022
Brüel & Kjaer 4231 Calibrator	3029274	Oct 2022

The sound level meters (SLM) used during the noise survey conform to Australian Standard 1259 "Acoustics - Sound Level Meters", (1990) as type 1 precision sound level meters, and have an accuracy suitable for both field and laboratory use. The meters' calibrations were checked before and after the measurement periods with a Brüel & Kjaer acoustic calibrator. No significant system drift occurred over the measurement periods.

The SLMs and calibrator have been checked, adjusted and aligned to conform to the factory specifications and issued with conformance certificates by a certified NATA facility.

3.2 Measurement Procedure

Measurements were made in general accordance with procedures in:

1. Australian Standard AS 1055 : 2018 *Acoustics - Description and measurement of environmental noise*
2. The NSW Government *Noise Policy for Industry* (EPA Oct 2017)

The microphone of a B&K 2250 G4 SLM was mounted at a height of 1.2m above the ground and a Brüel and Kjaer outdoor windscreen fitted to the microphone. The SLM was located above the cliff face where the crushing and screening equipment was operating to monitor noise levels while measurements were being conducted at the receiver locations.

The microphone of a B&K 2250 G4 was mounted on a 1.5m high tripod, a Brüel and Kjaer outdoor windscreen fitted to the microphone, and located near the asphalt plant to monitor noise levels of the asphalt plant while measurements were being conducted at the receiver locations.

Both SLMs were set to record continuously for the duration of receiver monitoring with 1 second samples. The sound recording feature was utilised on both SLMs.

A third SLM (B&K 2250 G4) was mounted on a 1.2m – 1.5m high tripod and a Bruel and Kjaer outdoor windscreen fitted to the microphone. The SLM was used at the receiver locations to monitor noise levels while the quarry and asphalt plant were operating. Markers and sound recording were utilised on the sound level meter for post event analysis of acoustic events during each monitoring period.

A 15 minute period was recorded at each receiver location with A and C weighting, fast response, and 1 second samples. Spectrum data was recorded with a linear (Z) weighting in 1/3 octave bands.

The clocks on the 3 SLMs were synchronised to enable comparison of noise levels at the asphalt plant and top of quarry reference locations with noise levels at the receiver locations.

3.3 Weather Conditions

Weather conditions were generally good for acoustic measurements. Observations were taken at each receiver location with a Kestrel 3000 pocket weather meter.

Table 3.2 Receiver Locations Weather Summary 7 th June 2023						
Receiver	Time	Temp	Relative Humidity	Wind	Wind Dir	Cloud Cover
		'C	%	Speed		
				(m/s)		
2	8:59 PM	12	91	Calm		0/8
	12:08 AM	13	90	Calm		0/8
4	10:23 PM	14	94	Calm		0/8
	10:38 PM	14	94	Calm		0/8
8	9:37 PM	14	95	Calm		0/8
	11:27 PM	14	94	Calm		0/8

Table 3.3 Receiver Locations Weather Summary 14 th June 2023						
Receiver	Time	Temp	Relative Humidity	Wind	Wind Dir	Cloud Cover
		'C	%	Speed		
				(m/s)		
2	10:58 AM	23	48	1 - 2	W	0/8
4	9:16 AM	19	62	0.5 - 1.5	Calm	0/8
8	10:04 AM	18	70	0.5 - 1.5	NW	0/8

Weather data from the weather station at Blakebrook Quarry is presented in Table 3.4 below.

Table 3.4 Blakebrook Quarry Weather Station Observations June 2023								
Date	Time	AVERAGE Air Temperature 10m - DegC	AVERAGE Wind Speed 10m - km/h	AVERAGE Wind Speed 10m -m/s	AVGDIR Wind Direction 10m - Degr	S-THETA Wind Direction 10m - Degr	STDEV Wind Speed 10m - km/h	TOTAL Rain Gauge - mm
7/06/2023	8:10 PM	15.3	1.6	0.4	341.3	26.1	0.5	0
	8:20 PM	15.2	2.2	0.6	10.8	24.4	0.5	0
	8:30 PM	15	2.1	0.6	18.5	27.9	0.5	0
	8:40 PM	14.9	1.8	0.5	9.2	22.7	0.3	0
	8:50 PM	14.9	1.6	0.4	3.9	25.3	0.3	0
	9:00 PM	14.8	2	0.6	17.6	22.2	0.2	0
	9:10 PM	14.7	2.6	0.7	1.7	19.5	0.2	0
	9:20 PM	14.7	1.3	0.4	2.7	30	0.6	0
	9:30 PM	14.4	2.5	0.7	357.1	28.7	0.6	0
	9:40 PM	14.2	2.6	0.7	350.7	25.4	0.5	0
	9:50 PM	14.1	2.1	0.6	353.7	28	0.4	0
	10:00 PM	14.1	2.8	0.8	358.4	25.1	0.4	0
	10:10 PM	14	3.2	0.9	7	23.9	0.6	0
	10:20 PM	13.9	2	0.6	5.9	35.5	0.7	0
	10:30 PM	13.7	4.3	1.2	2.1	31.2	0.6	0
	10:40 PM	13.7	4	1.1	357.7	29.3	0.8	0
	10:50 PM	13.6	3	0.8	358.6	31.4	0.7	0
	11:00 PM	13.6	2.3	0.6	346.7	27.6	0.5	0
	11:10 PM	13.5	2.1	0.6	356	29.1	0.5	0
	11:20 PM	13.5	2.8	0.8	2.5	29.2	0.5	0
	11:30 PM	13.6	2.8	0.8	17	34.3	0.6	0
	11:40 PM	13.6	1.4	0.4	345	22	0.4	0
	11:50 PM	13.5	1.1	0.3	353.6	24.5	0.4	0
8/06/2023	12:10 AM	13.2	1.4	0.4	318.1	16.6	0.5	0
	12:20 AM	12.9	1.7	0.5	344.3	28.6	0.9	0
	12:30 AM	12.8	1.4	0.4	326.4	32.4	0.6	0
	12:40 AM	12.7	1.1	0.3	328.4	41.6	0.4	0
	12:50 AM	12.9	1	0.3	319.9	51.9	0.6	0
14/06/2023	1:00 AM	12.8	0.8	0.2	318.5	26	0.4	0
	8:10 AM	14.8	2.6	0.7	5.5	31.3	0.8	0
	8:20 AM	15.3	2.8	0.8	345.3	40.5	0.8	0
	8:30 AM	15.9	2.7	0.8	336.3	38.3	0.8	0
	8:40 AM	16.3	2.8	0.8	326.9	43.9	1.1	0
	8:50 AM	16.7	2.1	0.6	341.8	50.9	0.7	0
	9:00 AM	16.9	2.5	0.7	317.8	35.1	0.6	0
	9:10 AM	17	2.3	0.6	336.2	39.8	0.7	0
	9:20 AM	17.2	3.3	0.9	314.1	27.8	0.8	0
	9:30 AM	17.4	2	0.6	325.6	40.5	0.5	0
	9:40 AM	17.9	2.8	0.8	314.2	39.5	1	0
	9:50 AM	18.1	2.8	0.8	326.9	43.6	0.8	0
	10:00 AM	18.4	3.7	1.0	304.9	27.5	0.8	0
	10:10 AM	18.4	3.9	1.1	311.8	36.6	1.2	0
	10:20 AM	19	3.7	1.0	296.8	42.6	1	0
	10:30 AM	19.7	4.3	1.2	294.4	28.2	1.2	0
	10:40 AM	20.2	4.4	1.2	260.9	50.8	2	0
	10:50 AM	20.7	3.7	1.0	257.2	54.1	1.4	0
	11:00 AM	20.8	5.1	1.4	238.7	29.7	0.8	0
	11:10 AM	21	5.3	1.5	227.1	57.3	1.3	0
	11:20 AM	21.1	4.8	1.3	221.9	55.2	2.3	0
	11:30 AM	21.3	5.4	1.5	266.3	76.2	1	0
	11:40 AM	21.8	3.6	1.0	222.5	62.1	1.3	0
	11:50 AM	21.9	4.9	1.4	220.7	75.6	1.3	0
	12:00 PM	21.6	5.7	1.6	244.4	54.2	1.8	0

Wind Direction 0 and 360 degrees – North, 90 degrees – East,
180 degrees South, 270 degrees - West

3.4 Measurement Results

Table 3.5 Blakebrook Quarry Receiver Locations Measurement Summary - 7 th /8 th June 2023 (All measurements 15 mins)								
Receiver	Start Time	Elapsed Time h:mm:ss	L _{AFmax} [dB]	L _{Aeq} [dB]	L _{Ceq} [dB]	L _{Ceq-LAeq} [dB]	L _{AF10.0} [dB]	L _{AF90.0} [dB]
2	8:59 PM	0:15:00	42.5	30.7	38.6	7.9	32.7	26.7
	12:08 AM	0:15:00	77.4	49.2	51.7	2.6	32.9	21.5
4	10:23 PM	0:15:00	46.0	26.0	42.2	16.3	27.5	23.2
	10:38 PM	0:15:00	41.8	24.4	40.0	15.6	25.8	21.7
8	9:37 PM	0:15:00	47.6	36.1	51.8	15.7	38.0	33.4
	11:27 PM	0:15:00	46.9	37.8	52.3	14.5	39.7	34.0

Table 3.6 Blakebrook Quarry Receiver Locations Measurement Summary - 14 th June 2023 (All measurements 15 mins)								
Receiver	Start Time	Elapsed Time h:mm:ss	L _{AFmax} [dB]	L _{Aeq} [dB]	L _{Ceq} [dB]	L _{Ceq-LAeq} [dB]	L _{AF10.0} [dB]	L _{AF90.0} [dB]
2	10:58 AM	0:15:00	65.8	45.8	56.7	10.9	42.0	32.8
4	9:16 AM	0:15:00	58.7	37.9	48.1	10.2	41.0	30.3
8	10:04 AM	0:15:00	50.8	42.1	52.8	10.7	44.1	39.3

Note:

The above results are the total ambient noise levels and includes noise from the rural surroundings and quarry noise if audible.

Post processing was conducted in Bruel & Kjaer BZ 5505 sound processing software to exclude other noise sources for the receiver location measurements. The exclude function was enabled for the traffic, animal and other markers. The total – exclude data enables a more accurate assessment of the noise source under investigation, by eliminating the periods that other random noise sources occur during monitoring. The results for Receiver 4 and Receiver 8 are presented below.

Table 3.7 Receiver 4 Measurement Summary Total - Exclude June 2023 (All measurements 15 mins)							
Start Time	Elapsed Time h:mm:ss	L _{AFmax} [dB]	L _{Aeq} [dB]	L _{Ceq} [dB]	L _{Ceq-LAeq} [dB]	L _{AF10.0} [dB]	L _{AF90.0} [dB]
7/06/2023 22:23	0:14:49	42.4	25.8	42.2	16.4	27.4	23.2
7/06/2023 22:38	0:14:16	36.0	23.7	39.8	16.1	25.5	21.6
14/06/2023 9:16	0:07:55	39.9	31.8	46.1	14.3	33.4	30.0

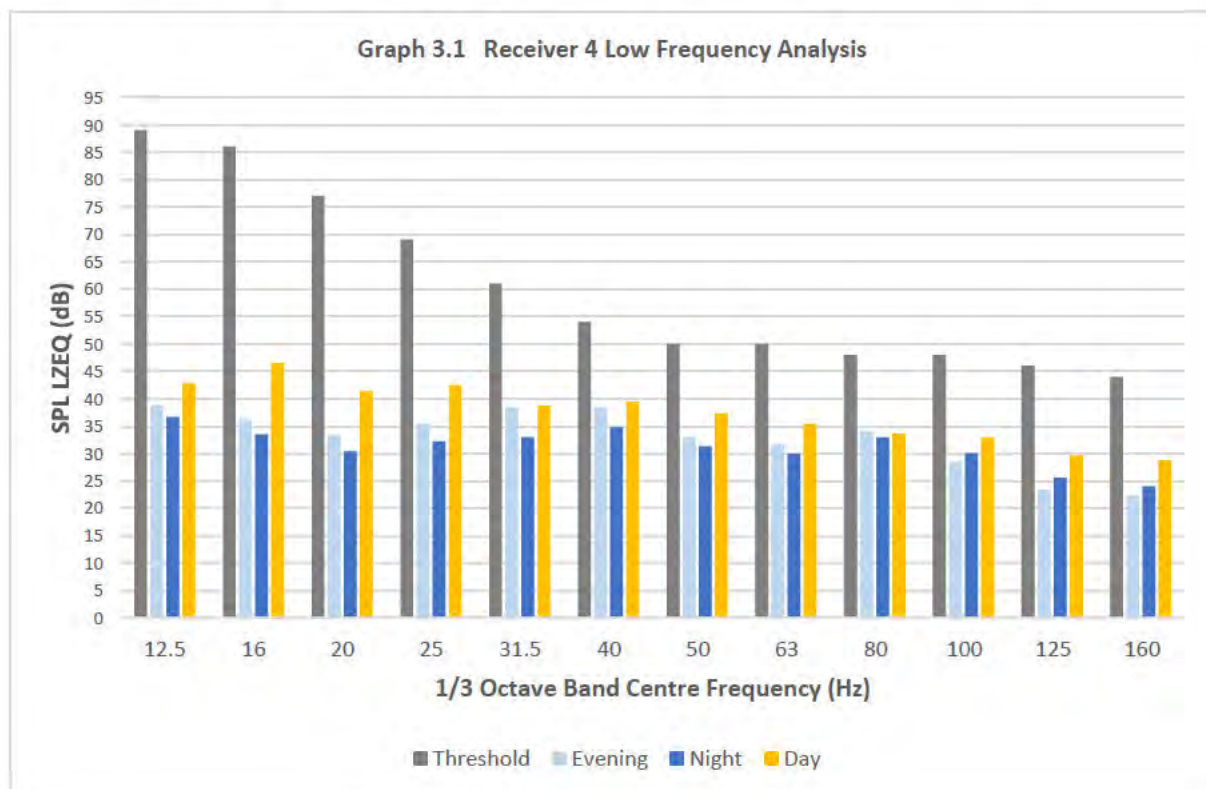
Table 3.8 Receiver 8 Measurement Summary Total - Exclude June 2023 (All measurements 15 mins)							
Start Time	Elapsed Time h:mm:ss	L _{AFmax} [dB]	L _{Aeq} [dB]	L _{Ceq} [dB]	L _{Ceq-LAeq} [dB]	L _{AF10.0} [dB]	L _{AF90.0} [dB]
7/06/2023 21:37	0:11:58	46.9	35.2	51.7	16.5	36.7	33.3
7/06/2023 23:27	0:12:09	42.7	37.3	52.2	14.9	39.1	33.8
14/06/2023 10:04	0:03:25	45.8	40.6	52.1	11.5	42.4	38.2

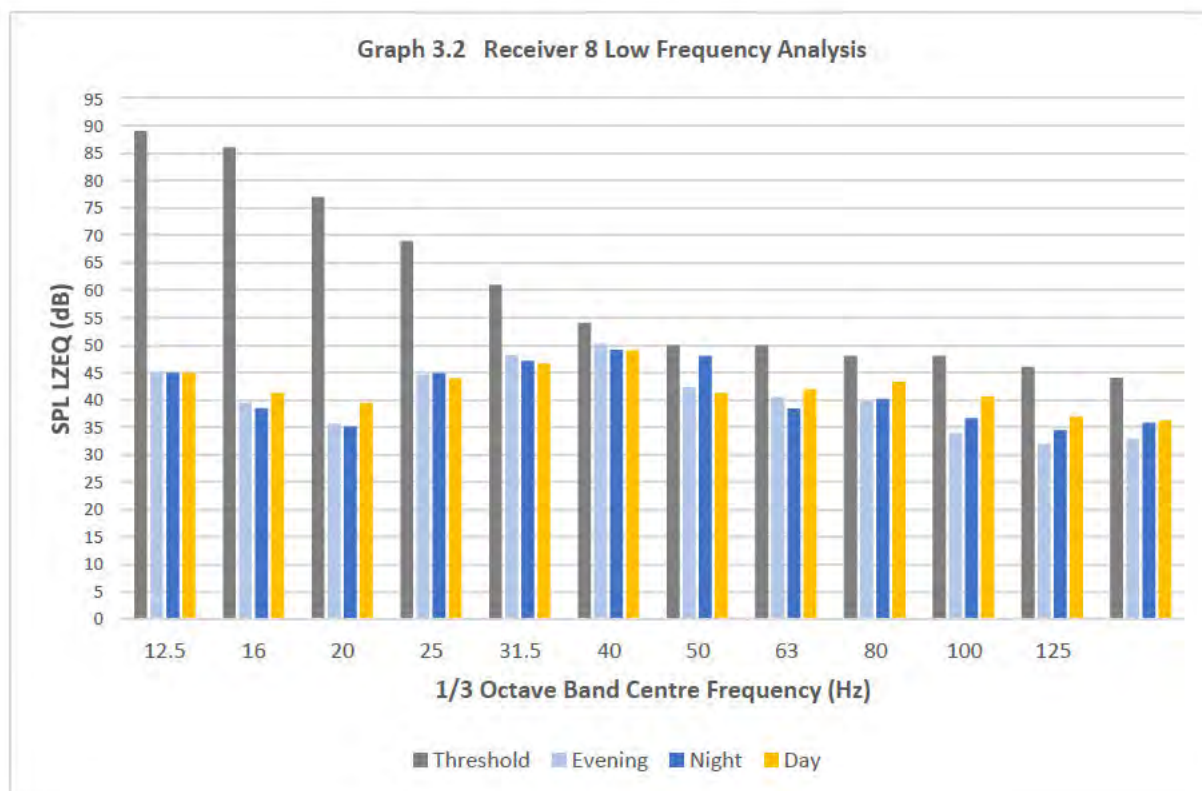
Table 3.9 Noise Observations at Receiver Locations 7 th /8 th June 2023 (All measurements 15 mins)			
Receiver	Start Time	Observed Noise Sources	Quarry Noise
2	8:59 PM	Distant cattle, distant traffic Nimbin Road, intermittent insects (3.15kHz - 4kHz) , distant birds, distant dogs barking	Asphalt plant not audible
	12:08 AM	Distant cattle quite consistent, distant traffic Nimbin Road, 1 vehicle passby, intermittent insects, distant birds, distant dogs barking	Asphalt plant not audible
4	10:23 PM	Very distant traffic, very distant dog, distant cattle	Asphalt plant low frequency just audible
	10:38 PM	Very distant traffic, very distant dog	Asphalt plant low frequency barely audible
8	9:37 PM	Distant traffic Nimbin Road, distant dog low level,	Asphalt plant audible
	11:27 PM	Distant traffic Nimbin Road, distant dog low level, vehicle on haul road	Asphalt plant audible - consistent

Table 3.10 Noise Observations at Receiver Locations 14 th June 2023 (All measurements 15 mins)			
Receiver	Start Time	Observed Noise Sources	Quarry Noise
2	10:58 AM	Occasional wind in trees, occasional traffic on Keerrong Road, birds, dog barking, distant traffic Nimbin Road, people talking occasionally, distant aircraft	Quarry not audible
4	9:16 AM	Distant traffic, birds, light aircraft, distant dog barking,	Crushing just audible, very low frequency of quarry just audible
8	10:04 AM	Road traffic noise from Nimbin Road, insects 16kHz - 20kHz, birds	Quarry audible

3.5 Low Frequency Analysis

The difference between the A and C L_{eq} levels at Receivers 4 and 8 was greater than 15 decibels during some measurements.





4 DISCUSSION OF RESULTS

There was a delay in the asphalt plant starting on the night of the 7th. The evening measurement at Receiver 4 was not completed until 10:38pm.

The noise loggers above the quarry and near the asphalt plant indicated that there was consistent quarry and asphalt plant noise during the measurement periods at receiver locations (graphs D1, D2, D3).

Receiver 2

Quarry noise was not audible for any monitoring period. The background noise level (21.5 dB LA90,15min) after midnight was very low.

The LAeq,15 min of the quarry operations is estimated to be below 30 dB(A). Leq,15min.

Receiver 4

Night time background noise levels are quite low. Crushing from the quarry floor was just audible during the day time period. During all monitoring periods, low frequency noise was just, or barely audible. The low frequency is from the asphalt plant.

Table 3.7 indicates the results of the total measurement without the other identified noises (graphs D7, D8 and D9). Graph 3.1 is the low frequency analysis for Receiver 4. The measured 1/3 octave data between 12.5Hz and 160Hz indicate all measured data is below the threshold criteria.

Based on the measured data and analysis, it is estimated quarry operations at Receiver 4 are below 32 dB(A) $L_{Aeq,15min}$ for calm meteorological conditions.

Receiver 8

Quarry noise was audible at Receiver 8 for the day, evening and night time periods. The measured noise levels were higher than previous noise surveys. The crushing operations only occur during the day and was operating at the northern end of the quarry. The asphalt plant was operating during all measurement period and has been identified as the contributing factor to the higher noise levels.

Table 3.8 indicates the total noise level less the other identified noises. The L_{Aeq} is 40.6 for the day time, 35.3 for the evening and 37.3 for the night time, and exceeds the assessment criteria of 35 dB(A) $L_{Aeq,15min}$ for this receiver location for each measurement period.

Graphs D1 and D2 (Appendix D) are the logged noise levels of the noise monitor near the asphalt plant. The graphs indicate the asphalt plant noise levels were consistent during the monitoring periods at Receiver 8.

Data from previous noise surveys indicates the asphalt plant was operating below 35 dB(A) during calm meteorological conditions with similar noise levels at the asphalt plant noise monitoring reference location. Insect noise was noticeable in some of the previous noise surveys.

The wind conditions at Receiver 8 were observed as calm on the night of the 7th, and a 0.5 – 1.5 m/s NW wind during the day time. Data from the meteorological station at the quarry indicated the following average 10m wind speeds (m/s) and direction during the monitoring periods at Receiver 8.

Day	1.0 - 1.1	NWW – NW
Evening	0.6 – 0.8	N
Night	0.3 – 0.8	N – NNW

Receiver 8 is approximately 600m south of the asphalt plant.

The noise levels at the asphalt plant are very consistent 65 – 66 L_{AFmax} during the evening and night time measurement periods. Graph D10 indicates the noise level from 34 dB(A) to 38 dB(A) when no other noise sources are present. The increase is due to the downwind location of Receiver 8 during breezes from the north. The wind was calm at the noise monitoring location as it was in a sheltered location. The strength of the breeze was not strong enough to cause noticeable foliage noise at the Receiver 8 measurement location.

Graph D11 shows a similar effect for the night time measurement. The levels range from 33 to 40 dB(A) when no other noise sources are present.

It was noted that road traffic noise from Nimbin Road was underlying most of the time during the day time monitoring period due to the prevailing NW wind, which increased background noise levels and L_{Aeq} noise levels.

The downwind conditions at Receiver 8 has resulted in increased noise levels from the asphalt plant at Receiver 8.

Discussions were held with the asphalt plant manager regarding noise levels from the asphalt plant.

The fans for the asphalt mix will vary depending on the temperature and load conditions. Cold mix will be quieter than hot mix.

The asphalt plant manager also indicated the fans are due to be replaced within 3 to 4 months.

5 SUMMARY AND CONCLUSION

A noise monitoring survey was conducted to assess compliance of the quarry and asphalt plant operational noise levels at Blakebrook Quarry, Blakebrook, via Lismore NSW. Measurements were undertaken with calibrated noise monitoring equipment on the 7th and 14th of June 2023, and conducted in general accordance with procedures in Australian Standard AS 1055:2018 and the NSW Noise Policy for Industry.

The Blakebrook Quarry operates under the New South Wales Government Environment Protection Authority, Environmental Protection Licence, EPL No. 3384. Noise emissions from quarry and asphalt plant operations at nearby residential receivers, is managed by the Noise and Blast Management Plan (NBMP) for Blakebrook Quarry (Lismore City Council Oct 2022), and includes an Out of Hours Work Protocol (OHWP) for the asphalt plant, which is anticipated to occur 5 nights per month on scheduled projects.

Day time (7am – 6pm) noise limits at residential receivers without a written agreement with the quarry are 36 dB(A) $L_{Aeq,15min}$ for receivers 2 and 7, and 35 dB(A) $L_{Aeq,15min}$ for all other receivers. The evening (6pm – 10pm) and night time (10pm – 7am) noise limit is 35dB(A) $L_{Aeq,15min}$ at all receiver locations without a written agreement with the quarry.

Measurements were conducted at the 3 primary receiver locations (Receivers 2, 4, 8) while the quarry and asphalt plant were operating during the day, and during the evening and night time periods, with only the asphalt plant producing hot mix and trucks on the haul road.

The quarry operations were not audible at Receiver 2 during the day, evening and night time periods. It is estimated quarry operations are below 30 dB(A) $L_{Aeq,15min}$, which is below the day, evening and night time noise limits.

Low frequency noise from asphalt plant operations was barely audible or just audible at Receiver 4 for the day, evening and night time periods. The low frequency analysis indicates the measured low frequency is below the low frequency criteria. It is estimated quarry operations at Receiver 4 are below 32 dB(A) $L_{eq,15min}$ for calm meteorological conditions.

The measured noise levels at Receiver 8 exceeded the day, evening and night time noise limit criteria of 35dB(A) $L_{Aeq,15min}$. The asphalt plant was identified as the contributor to the exceedances. The exceedances were 5.6 decibels for the day time, 0.3 decibels for the evening, and 2.3 decibels for the night time. It was noted that Receiver 8 was downwind of the asphalt plant for each of the monitoring periods and the main reason for the exceedances. Consistent underlying traffic noise from Nimbin Road due to the NW wind contributed to an increase in background and L_{Aeq} noise levels at Receiver 8 .

It is recommended that the fans at the asphalt plant be operated at the minimum safe fan speed when there is a northerly breeze.

It is recommended to investigate if quieter fans are available when the asphalt fans are due to be replaced in the next 3 to 4 months.

It is recommended a noise assessment be conducted after the installation of fans to ensure the asphalt plant operations comply with the noise criteria.

Receiver 8 is close to the southern cell. It is recommended that noise monitoring be conducted at Receiver 8 when work in the southern cell is undertaken, to assess the noise impact at Receiver 8.



Acoustic Consultant
Ambience Audio Services

APPENDIX A

Definitions of Terms

Sound pressure level (L_p): A measurable quantity of the size or amplitude of the pressure fluctuations (sound waves) above and below normal atmospheric pressure compared to a reference pressure. Sound pressure levels are measured in decibels whereas sound pressure is measured in pascals (N/m^2).

Decibels (dB): a ratio of energy flows. When used for sound measurement, it is the ratio between a measured quantity of sound pressure and an agreed reference sound pressure. The dB scale is logarithmic and uses the threshold of hearing of $20 \mu Pa$ (micro pascals) as the reference pressure. This reference level is defined as 0 dB.

Frequency (Hz): The number of pressure variations per second (cycles per second) is called the **frequency** of sound and is measured in **Hertz (Hz)**. The rumble of distant thunder has a low frequency, while a whistle has a high frequency. The normal range of hearing for a healthy young person extends from approximately 20Hz up to 20 000 Hz (20 kHz) while the range from the lowest to highest note on a piano is approximately 27.5 Hz to 4.2 kHz.

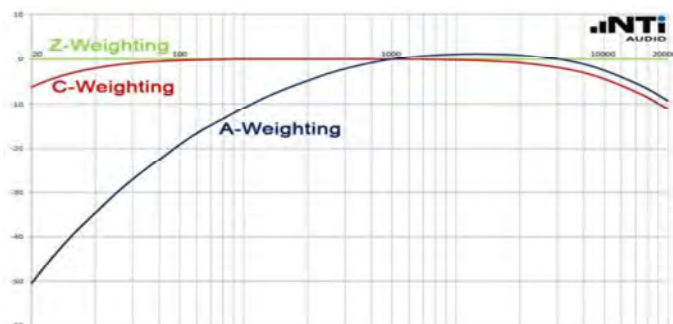
Spectral characteristics: The frequency content of noise.

Octave: a logarithmic unit for ratios between frequencies, with one octave corresponding to a doubling of frequency. For example, the frequency one octave above 40 Hz is 80 Hz.

1/3 Octave: a logarithmic unit of frequency ratio equal to one third of an octave.

“A” frequency weighting: The method of frequency weighting the electrical signal within a noise-measuring instrument to give a very approximate simulate to the human perception of loudness. The symbols for the noise parameters often include the letter “A” (e.g., L_{Aeq} , dBA) to indicate that frequency weighting has been included in the measurement. “A” weighting is most commonly used with regard to noise control issues, regulations and environmental standards.

“C” frequency weighting: The filters used in C weighting captures lower frequencies than A weighting as indicated in the chart below.



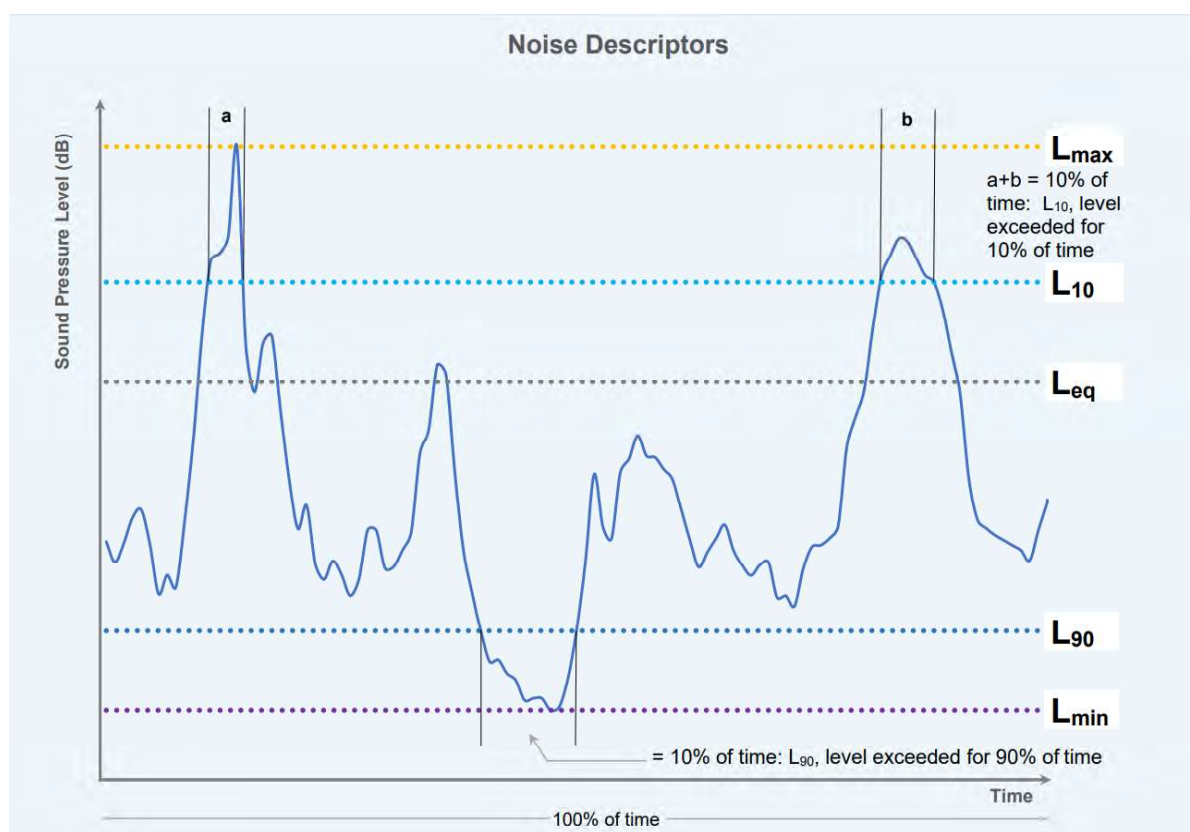
The A-weighting curve is used extensively for general purpose noise measurements but the C-weighting correlates better with the human response to high noise levels.

Fast, Slow and Impulse time weightings: Standardised root-mean-square (rms) averaging times to help define fluctuating noise levels. Impulsive noises have high peak levels with a very short duration (e.g., gun shot), or a sequence of such peaks. The 'Slow' time weighting averages the fluctuations over a one second time base whilst the 'Fast' time weighting averages the fluctuations over a one-eighth of a second time base. Environmental assessment standards usually specify the time weighting (**F**, **S**, or **I**) to be used.

L_{Aeq}: The A-weighted equivalent continuous noise level. A widely used noise descriptor which provides an average of the energy of a constant level of noise which is the same as the varying noise signal being measured. The time in which the measurement was sampled, is indicated with a subscripted number e.g. L_{Aeq,15 minute} is a 15-minute sample.

Percentile Levels L_N: The sound pressure level that is exceeded for N per cent of the time over which a given sound is measured. e.g. **L_{A90}** is the A-weighted sound pressure level that is exceeded for 90% of the time over which a given sound is measured.

L_{A90} is commonly used to describe the **background noise level** for community noise assessments.



Ambient noise: The all-encompassing noise associated within a given environment. It is the composite of sounds from many sources, both near and far.

Extraneous noise: Noise resulting from activities that are not typical of the area. Atypical activities may include construction, and traffic generated by holiday periods and by events such as concerts or sporting events. Normal daily traffic is not to be considered extraneous.

Background noise: The underlying level of noise present in the ambient noise, excluding the noise source under investigation, when extraneous noise is removed. This is described using the **L_{A90}** descriptor, fast time weighting.

Intrusive Noise: Refers to noise that intrudes above the background level by more than 5 decibels.

Noise limits: Enforceable noise levels that appear in consents and licences. The noise limits are based on achievable noise levels, which the proponent has predicted can be met during the environmental assessment. Exceedance of the noise limits can result in the requirement for either the development of noise management plans or legal action.

References:

Measuring Sound Brüel and Kjær Sound & Vibration Measurements A/S
September 1984

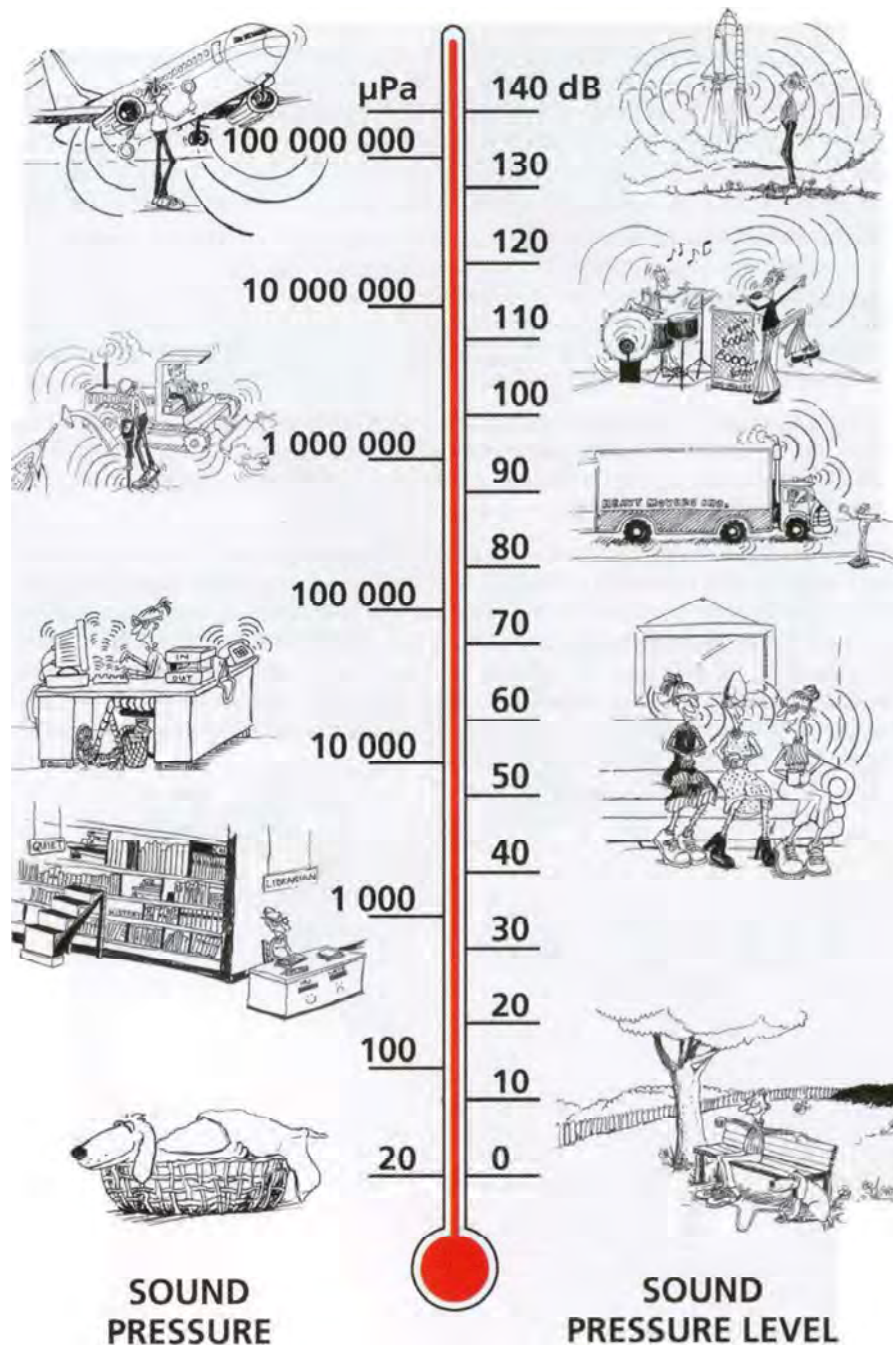
Environmental Noise Brüel and Kjær Sound & Vibration Measurements A/S
2000, 2001

New South Wales Industrial Noise Policy NSW Environment Protection
Authority January 2000

<https://www.nti-audio.com/en/support/know-how/frequency-weightings-for-sound-level-measurements>

APPENDIX B

Comparison of Sound Pressure Levels



Our hearing covers a wide range of sound pressures – a ratio of over a million to one. The dB scale makes the numbers manageable.

Reproduced from

Environmental Noise Brüel and Kjær Sound & Vibration Measurements A/S
2000, 2001

Appendix C
Quarry Operations 7th and 14th June 2023



Image Source – Lismore City Council Online Mapping
Note : Aerial photo not of June 2023 operations

Quarry Pit Floor Operations 14th June 2023



Quarry equipment in use during noise monitoring

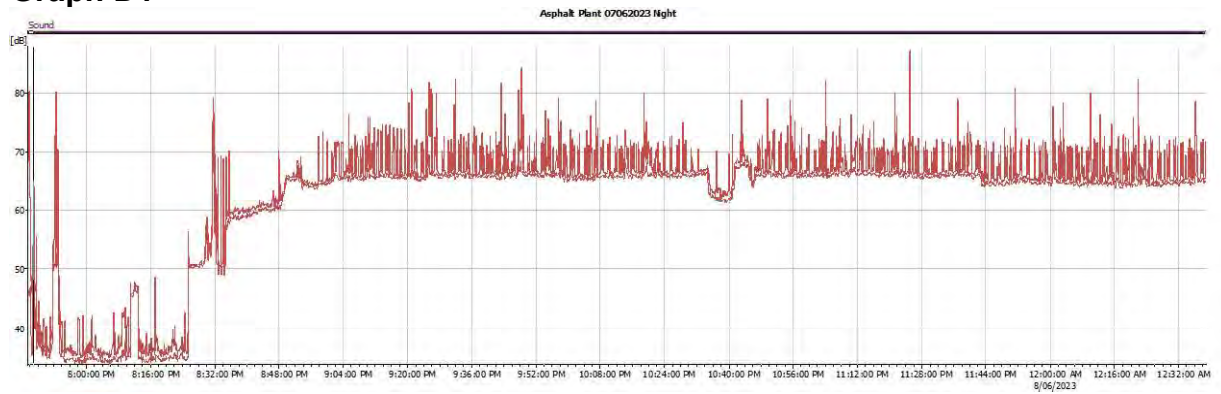
- 1 x Kleeman MC110z jaw crusher
- 1 x Kleeman MC09S cone crusher
- 1 X Komatsu WA470 Loader
- 1 x Cat 329 excavator

- 1 x water truck
- various haul trucks
- various service vehicles

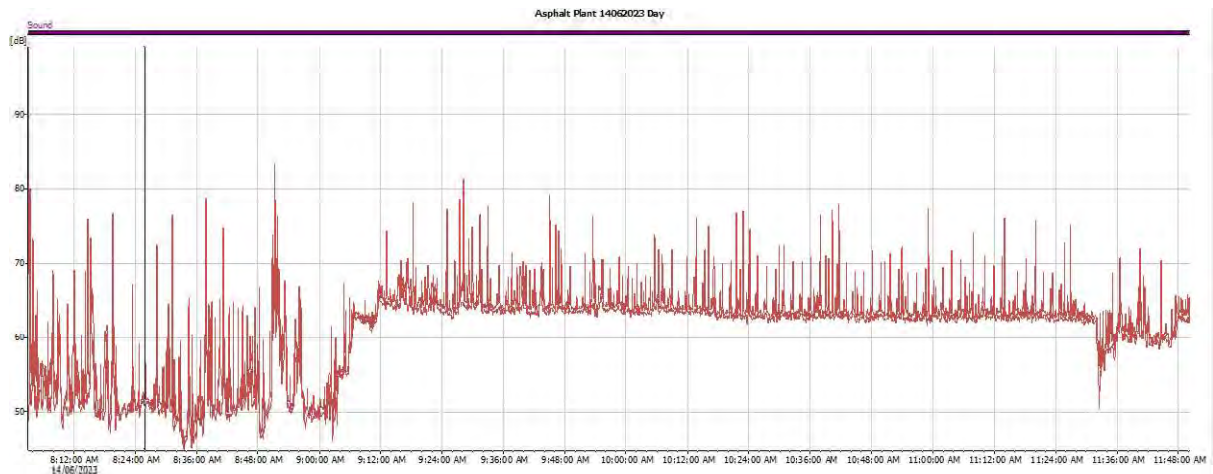
APPENDIX D

LAFmax Logged Noise Level Graphs 7th and 14th June 2023

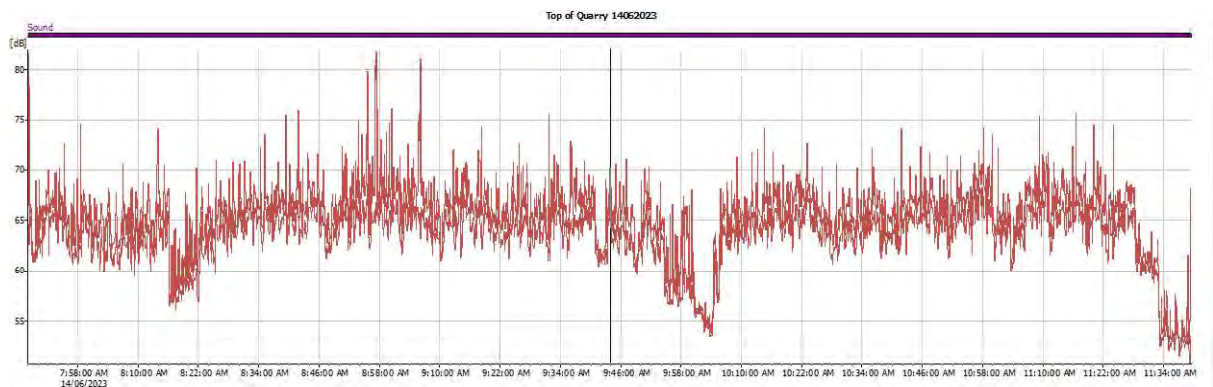
Graph D1



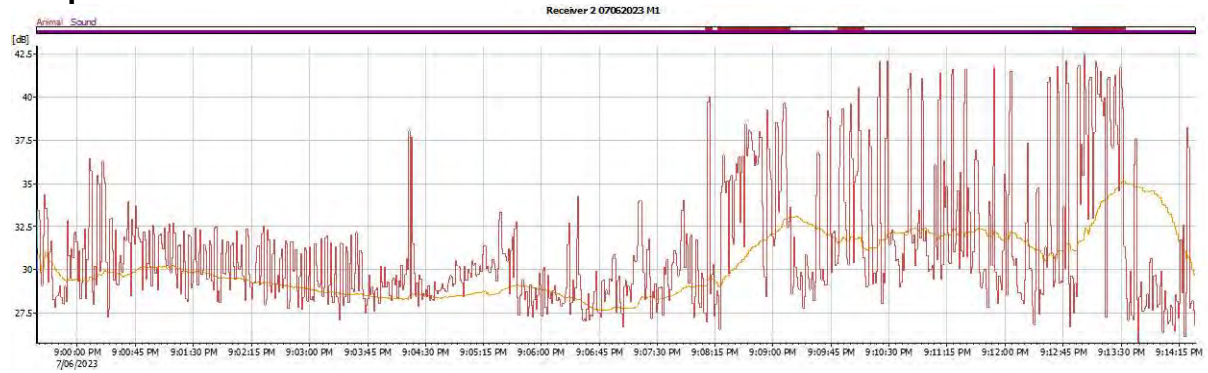
Graph D2



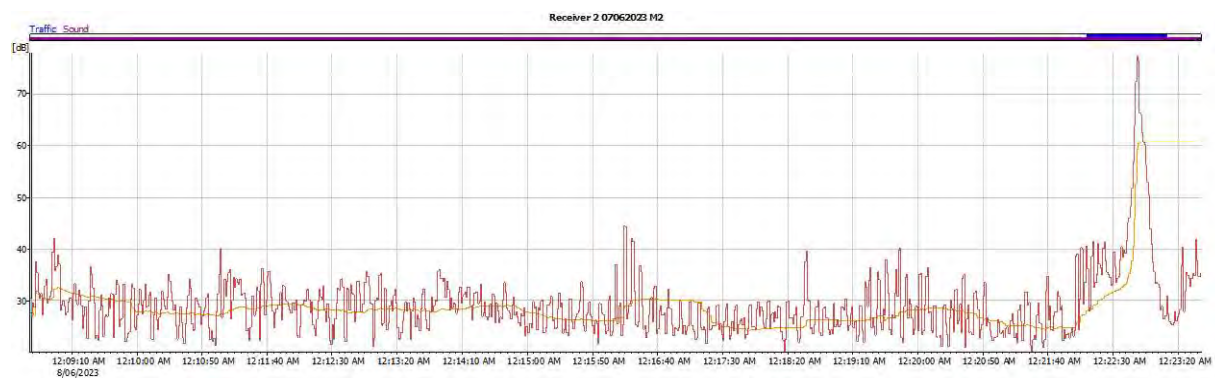
Graph D3



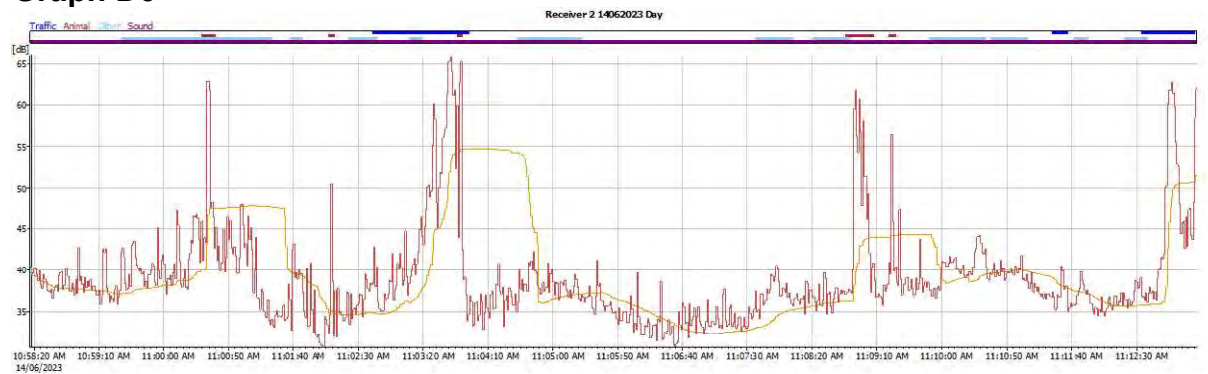
Graph D4



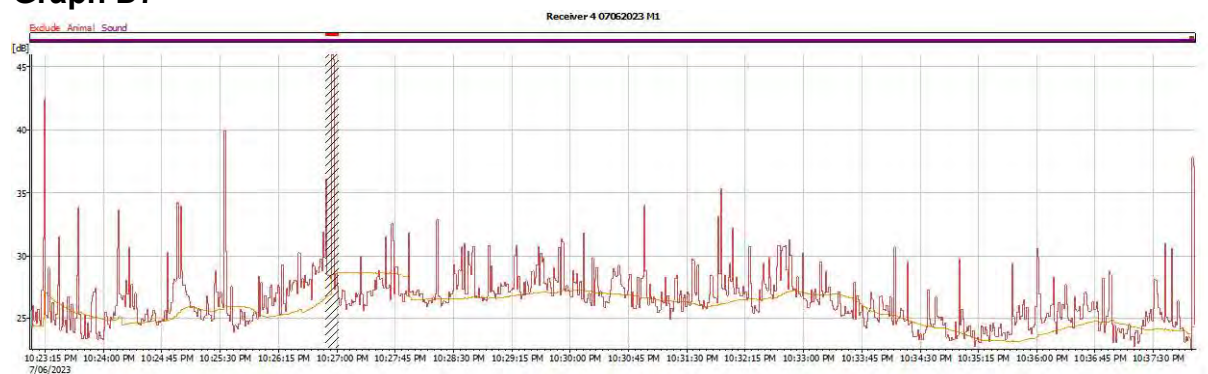
Graph D5



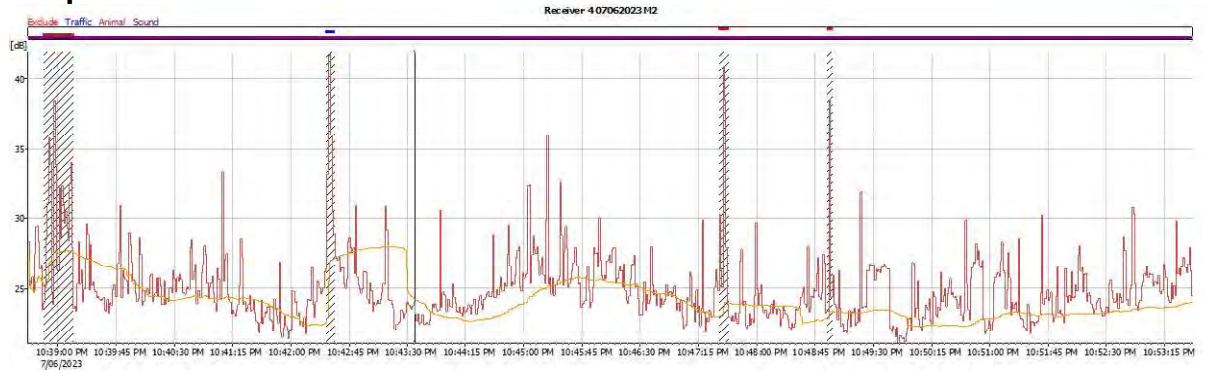
Graph D6



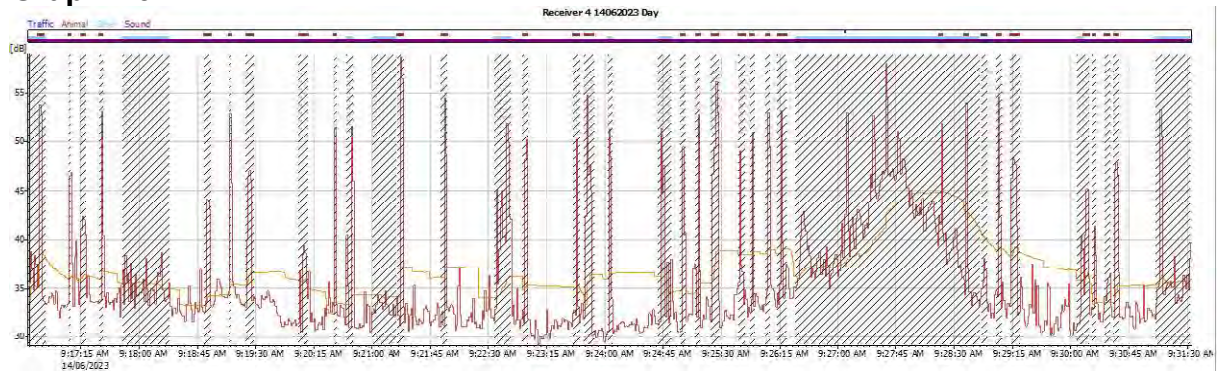
Graph D7



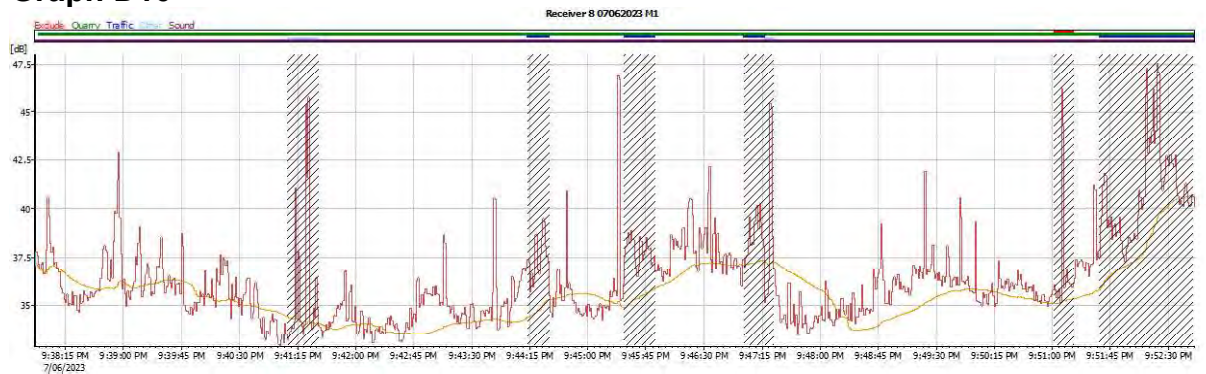
Graph D8



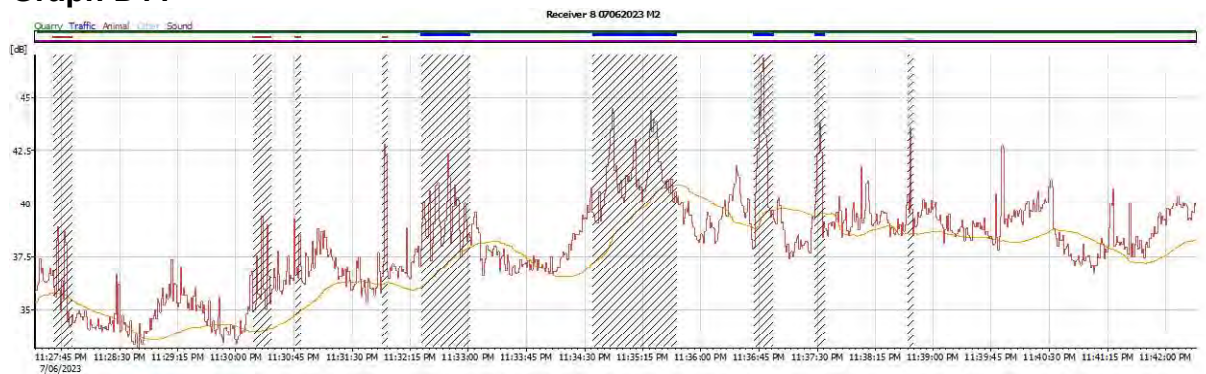
Graph D9



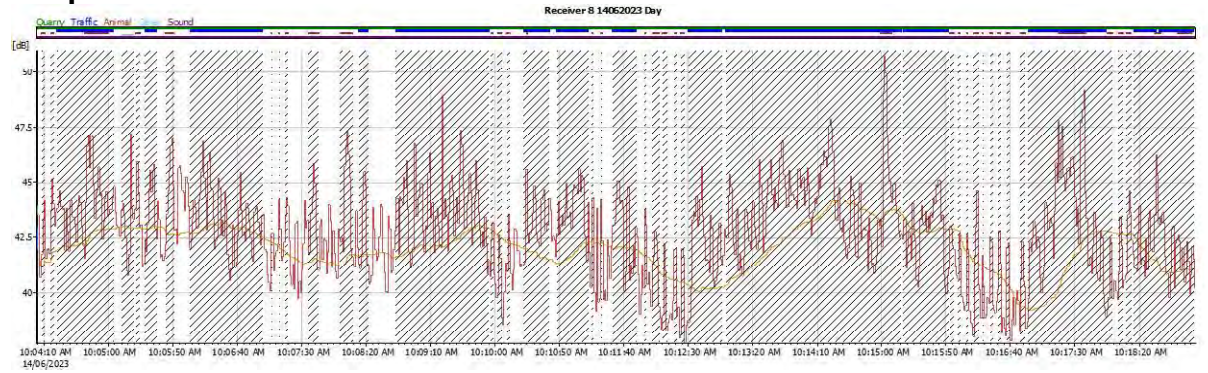
Graph D10



Graph D11



Graph D12





Appendix K

Non-compliance 2 - Noise



NON-COMPLIANCE REPORT

EPL3384

550 NIMBIN ROAD BLAKEBROOK

(EPA Ref. 21959)

June 2023

Non-Compliance Report

for

Blakebrook Quarry

at

**550 Nimbin Road
BLAKEBROOK NSW 2480**

Lismore City Council

43 Oliver Avenue, Goonellabah NSW 2480
PO Box 23A, Lismore, 2480 | T [1300 878 387](tel:1300878387)
Email: council@lismore.nsw.gov.au | Website: www.lismore.nsw.gov.au

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ABN: 60 080 932 837

Document No	Issue	Description	Author	Approved by
ED23/36564	June	Final		

Contents

SECTION 1 – INTRODUCTION	4
1.1 Background.....	4
1.2 Site Description.....	4
1.3 Licensing & Departmental Requirements	5
SECTION 2 – COMPLIANCE DETAILS	5
2.1 Condition Compliance	5
2.2 Findings and Mitigation	6
2.3 Contractor Details	6



SECTION 1 – INTRODUCTION

1.1 Background

Blakebrook Quarry is operated by Northern Rivers Quarry (NRQ) which is a commercial entity owned by Lismore City Council. The Quarry is located at 550 Nimbin Road, Blakebrook, approximately seven (7) kilometres northwest of Lismore on Lot 53 DP 1254990 for Extraction Areas and Lot 54 DP 1254990 for Asphalt Plant and ancillary activity.

Blakebrook Quarry currently operates pursuant to the Minister's Conditions of Approval MP07-0020, dated 20 July 2021, otherwise known as the development approval. The Blakebrook Quarry presently holds an environmental protection licence (EPL3384) issued by the NSW Environmental Protection Authority (EPA), authorising extractive activities of up to 500,000 tonnes per annum, including asphalt production as an ancillary activity. Blakebrook Quarry excavates aggregate material for use on infrastructure development and maintenance with its primary product being basalt. This basalt is primarily utilised as a road base and supply for Asphalt production. The Blakebrook Quarry predominantly supplies products for community road maintenance within the local government area.

1.2 Site Description

The site occupies an area of approximately 128 ha (incorporating 45ha rezoned to C2 Environmental Conservation (gazetted on 18 December 2020)), providing long term security for the biodiversity offset area. Surrounding land is used for agricultural and rural purposes. The location of the Quarry is as shown in Figure 1. Site Location

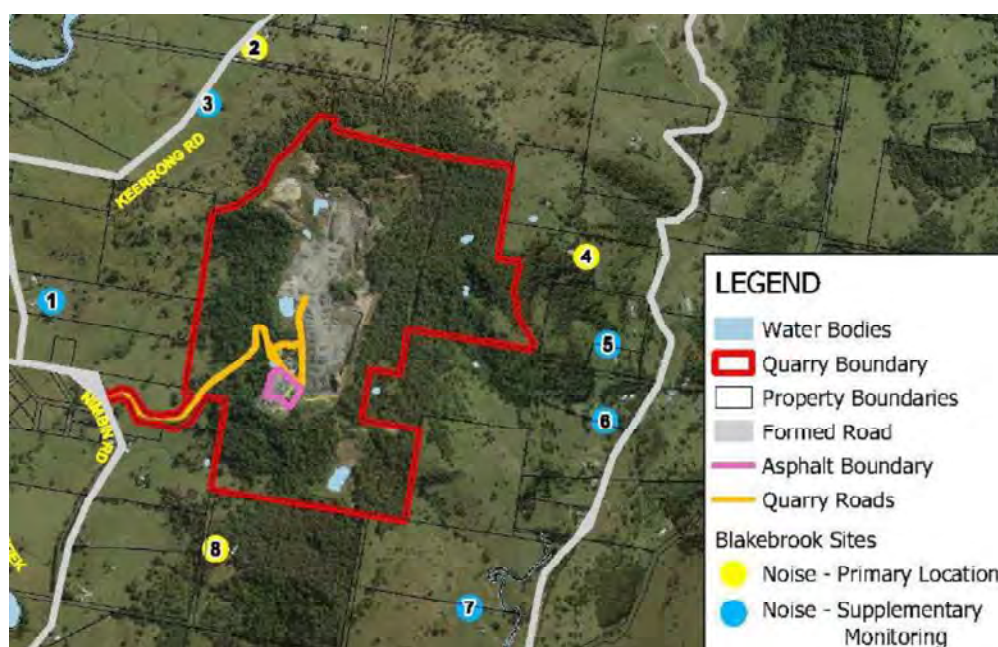


Figure 1. Site Location

1.3 Licensing & Departmental Requirements

The Blakebrook Quarry operates under the NSW EPL3384. Noise emissions from Quarry and Asphalt plant operations at nearby residential receivers, is managed by the Noise and Blast Management Plan (NBMP) for Blakebrook Quarry (Lismore City Council Oct 2022) and includes an Out of Hours Work Protocol (OHWP) for the asphalt plant. The NBMP was recently revised and at request of the Department of Planning and Environment noise monitoring was amended to biannually for winter and summer periods for all three time categories (day, evening and night).

L4 Noise limits

- *L4.1 Noise from the licenced premise must not exceed an LAeq (15 minute) noise emission criterion of 36db(A) at Location 2 and 7 and 35db(A) at all other sensitive receivers, except as expressly provided by this licence.*
- *L4.2 Noise from the premises is to be measured at the most affected noise sensitive receiver who has not given written permission for an exceedance of condition L5.1 to determine compliance with this condition.*

M8 Other monitoring and recording conditions

- *M8.1 Noise monitoring must be carried out in accordance with Australian Standard AS 2659.1 – 1998: Guide to the use of sound measuring equipment – Portable sound level meters, and the compliance monitoring guidance provided in the NSW Industrial Noise Policy.*

R2 Notification of environmental harm

- *R2.1 - Notifications must be made by telephoning the Environment Line service on 131 555.*
- *R2.2 - The licensee must provide written details of the notification to the EPA within 7 days of the date on which they became aware of the incident.*

SECTION 2 – COMPLIANCE DETAILS

2.1 Condition Compliance

EPL Condition L4.1 - *Noise from the licenced premise must not exceed an LAeq (15 minute) noise emission criterion of 36db(A) at Location 2 and 7 and 35db(A) at all other sensitive receivers, except as expressly provided by this licence.*

Noise monitoring was undertaken at Blakebrook Quarry on 7 and 14 June 2023 for the Asphalt plant and Quarry operations. Monitoring results show an exceedance at Primary Location 8 (█ Nimbin Road) for each measurement period and exceeds the assessment criteria of 35 dB(A) LAeq,15min for this receiver location. The distance between the Asphalt plant and the monitoring site is approximately 650 metres. All other monitor location results were well below prescribed licence limits.

Results for Receiver 8 is listed below:

- Day - 40.6 dB(A) LAeq,15min
- Evening –35.3 dB(A) LAeq,15min
- Night –37.3 dB(A) LAeq,15min

EPL Condition M8.1 - *Noise monitoring must be carried out in accordance with Australian Standard AS 2659.1 – 1998: Guide to the use of sound measuring equipment – Portable sound level meters, and the compliance monitoring guidance provided in the NSW Industrial Noise Policy.*

The noise monitoring was conducted for each assessment time period at all three primary locations (Receivers 2, 4 and 8 as identified in *Figure 1*):

- Day - 7am to 6pm
- Evening – 6pm to 10pm
- Night – 10pm to 7am

Measurements were undertaken with calibrated noise monitoring equipment and conducted in general accordance with procedures in *AS 1055:2018* and the *NSW Noise Policy for Industry*. (NB. Australian Standard *AS2659.1* is no longer current and has been withdrawn).

EPL Condition R2.1 - Notifications must be made by telephoning the Environment Line service on 131 555.

Council notified EPA on 27 June 2023, within 24 hours of receiving noise monitoring results from the contractor – EPA ref. 21959.

EPL Condition R2.2 - The licensee must provide written details of the notification to the EPA within 7 days of the date on which they became aware of the incident.

This report has been prepared in accordance with R2.2 requirements.

2.2 Findings and Mitigation

The measured noise levels at Receiver 8 exceeded the day, evening and night-time noise limit criteria of 35dB(A) $L_{Aeq,15min}$. It was noted that Receiver 8 was downwind of the Asphalt Plant for each of the monitoring periods and consistent underlying traffic noise from Nimbin Road due to the NW wind contributed to an increase in background and L_{Aeq} noise levels at Receiver 8.

Council's Compliance Unit has investigated the exceedance with the Asphalt Plant Operator who indicated the fans and the plant gob hopper may have been the contributing factors. The Asphalt Plant Operator has advised that they will increase maintenance to ensure fan blades are clean and free from residue. Further, that this fan will be replaced in the coming months (currently on order from Germany).

Council is committed to compliance with regulatory conditions and will undertake further noise monitoring within the next 3 months. Council did not receive any complaints during this time.

2.3 Contractor Details

Noise Monitoring Contractor Information

Ambience Audio Services



[ambienceaudio.com.au](https://www.ambienceaudio.com.au)



Our ref: ED23/36568
Your ref: MP07_0020
Contact: Lismore City Council

4 July 2023

Department of Planning and Environment (DPE)
Planning and Assessment
(Via Major Projects Portal)

Dear DPE

RE: Non-Compliance Notification – MP07_0020 Blakebrook Quarry Project

In accordance with Schedule 5 Condition 9, Lismore City Council (Council) would like to report the following non-compliance with Schedule 3 Condition 3 – Noise Criteria.

Noise monitoring was undertaken at all Primary Receiver Locations on 7 and 14 June, 2023 for the Asphalt Plant and Quarry operations, in accordance with the approved Noise & Blast Management Plan (NBMP) (sections 7.2 and 7.3).

Monitoring results show an exceedance at Primary Receiver Location 8 (Nimbin Road) for each time measurement period and exceeds the assessment criteria of 35 dB(A) $L_{Aeq,15min}$ for this receiver location. All other monitor location results were well below prescribed licence limits.

Results for Receiver 8 is listed below:

- Day - 40.6 dB(A) $L_{Aeq,15min}$
- Evening –35.3 dB(A) $L_{Aeq,15min}$
- Night –37.3 dB(A) $L_{Aeq,15min}$

Measurements were undertaken with calibrated noise monitoring equipment and conducted in accordance with the *NSW Noise Policy for Industry*.

Council's compliance unit has investigated the exceedance with the Asphalt Plant Operator who indicated the fans and the plant gob hopper may have been the contributing factors. The Asphalt Plant Operator has advised that they will increase maintenance to ensure fan blades are clean and free from residue. Further, that the fan will be replaced in coming months (which is currently on order from Germany).

Additionally, Council would like to notify of an administrative non-compliance with NBMP, section 9.2 whereby Council is required to telephone the Department within 24 hours of becoming aware of a non-compliance. This is an administrative error within the NBMP which solely relates to the

Environmental Protection Licence requirements. Council seeks approval from the Department to correct this administrative error.

Council is committed to compliance with regulatory conditions and will undertake further noise monitoring within the next 3 months. Council did not receive any complaints during this period.

In accordance with Schedule 4 Condition 1(a), Council has notified the affected landowner in writing of the exceedance and will provide a copy of supplementary monitoring results to the landholder.

Should you require any further information, please do not hesitate to contact [REDACTED]
Compliance Manager on 02 6627 5615 [REDACTED]

Yours Faithfully

[REDACTED]

[REDACTED]
Head of Operational Compliance
Lismore City Council





Appendix L

Supplementary Noise Monitoring Assessment

Ambience Audio Services

Acoustic Measurement and Analysis

15 Tamarind Close
Richmond Hill NSW 2480
ambienceaudio.com.au

Mobile: 0429 405 070

Results of Noise Monitoring Winter 2023 Supplementary Assessment

**Blakebrook Quarry
550 Nimbin Road
Blakebrook NSW 2480**

Prepared for

**Ecoteam
13 Ewing Street
Lismore NSW 2480**

Document Control				
Rev. No	Date	Prepared By		Notes
Final	24/09/2023			

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Table of Contents

1	INTRODUCTION	3
2	NOISE MONITORING REQUIREMENTS	4
3	MEASUREMENT PROCEDURE AND RESULTS	9
3.1	Instrumentation	9
3.2	Measurement Procedure.....	9
3.3	Weather Conditions	10
3.4	Measurement Results	12
3.5	Low Frequency Analysis	13
4	DISCUSSION OF RESULTS.....	14
5	SUMMARY AND CONCLUSION	16
APPENDIX A		18
	Definitions of Terms	18
APPENDIX B		21
	Comparison of Sound Pressure Levels.....	21
APPENDIX C		22
	Quarry Operations 23 rd August 2023	22
APPENDIX D		24
	LAF _{max} Logged Noise Level Graphs 22 nd & 23 rd August 2023.....	24

1 INTRODUCTION

The Blakebrook Quarry operates under the New South Wales Government Environment Protection Authority, Environmental Protection Licence, EPL No. 3384. Noise emissions from quarry and asphalt plant operations at nearby residential receivers, is managed by the Noise and Blast Management Plan (NBMP) for Blakebrook Quarry (Lismore City Council Oct 2022), and includes an Out of Hours Work Protocol (OHWP) for the asphalt plant, which is anticipated to occur 5 nights per month on scheduled projects.

Ambience Audio Services were engaged by Ecoteam of Lismore to conduct a noise compliance assessment for Blakebrook Quarry in June 2023 at the three nominated receiver locations. The results indicated noise emissions from operations within the quarry were below the noise limits at two of the three nominated receiver locations as specified in the NBMP and OHWP. The results also indicated exceedances at Receiver 8. It was noted that the exceedances occurred during downwind conditions. It was also noted that the noise levels from the fans vary depending on the temperature and load conditions. The asphalt plant has recently upgraded some of the fans.

Noise compliance monitoring was conducted at all three receiver locations on the evening and night of the 22nd and the morning of the 23rd, of August with the quarry and asphalt plant operating under normal load conditions and suitable weather conditions, to check noise levels after the fans were upgraded.

Quarry operations while noise monitoring was conducted for the day time period included: crushing, screening and stockpiling on the central area of the quarry floor, asphalt production at the mobile plant in the southern section of the quarry, and trucks and loaders on the quarry floor and internal haul roads. A diagram of equipment operating on the quarry floor during noise monitoring at residential receivers is provided in Appendix C.

There were truck movements on the internal haul roads, entry/exit haul road and Nimbin Road during the day time noise monitoring.

To assist with the interpretation of some of the terminology used in this report, Appendix A provides definitions of acoustic terms. Appendix B is a chart of everyday sound pressure levels.

Appendix D are the logged noise levels for the asphalt plant, above crushing operations on the quarry floor, and at each receiver location.

2 NOISE MONITORING REQUIREMENTS

The noise monitoring requirements for the Blakebrook Quarry are outlined in Section 2.2, Sections 7.1, 7.2, 7.3, 7.4, 7.5 and 7.7 of the NBMP (LCC Oct 2022).

Extracts of the relevant parts are copied below.

Section 2.2

3. *The Proponent must ensure that the noise generated by the project does not exceed the criteria in Table 2 at any residence on privately owned land.*

Table 2: Noise Criteria dB(A)

Receiver	Day L _{Aeq} (15 minute)
Location 2 and 7	36
All other locations	35

Out of Hours Work Protocol – Asphalt Operations

The OHWP has provided management strategies for potential noise sources involving asphalt operations and truck movements. The evening and night project-specific noise level criterion is 35 dB(A) L_{Aeq} (15 minute).

L4.1 Noise from the licenced premises must not exceed an L_{Aeq} (15 minute) noise emission criteria of 36 dB(A) at Location 2 and 7, and 35 dB(A) at all other sensitive receivers, except as expressly provided by in this licence.

7.2 MONITORING LOCATIONS

The original Noise Assessment (ERM 2009) and updated NIA (Mitchel Hanlon, SEE 2019) included six (6) noise monitoring locations that were used throughout the assessment, based on proximity to nearby potentially sensitive receptors. Given the proximity between monitoring locations and the location of anticipated noise-generating plant and equipment, the monitoring locations have been revised and separated into primary and supplementary acoustic monitoring locations for the purposes of the NBMP.

Primary and supplementary acoustic locations are identified in *Figure 2*. Primary acoustic monitoring locations consist of locations 2, 4 and 8 with the remainder of locations being supplementary acoustic monitoring locations.

An agreement was reached with the landowner located along Nimbin Road (previously identified as location 8, ERM 2009) in April 2016, wherein the landowner has agreed to the exceedances in noise levels from Quarry operations. As such the location has been removed as a primary acoustic monitoring location, and a new monitoring location selected being (current) location 8.

Primary monitoring locations will be utilised during noise compliance monitoring and are considered representative in determining compliance with the relevant Conditions of Approval.

In the event that additional monitoring is required then additional monitoring may be undertaken at the most practical supplementary acoustic monitoring locations, as well as at the primary acoustic monitoring locations.

7.4 METHODOLOGY

Noise

Operator attended noise measurements shall be conducted at all primary acoustic measurement locations (Locations 2, 4 and 8 – refer *Figure 2*) to quantify and characterise the maximum (L_{Amax}), the energy equivalent (L_{Aeq}), and the background (L_{A90}) noise levels from ambient noise sources and quarrying operations over a 15 minute measurement period.

The operator shall quantify noise emissions and estimate the L_{Aeq} (Period) noise contribution during Quarry activities, as well as the overall level of ambient noise. During attended monitoring, digital recordings will be conducted to allow for additional post analysis of the Quarry noise levels and source identification.

All acoustic instrumentation employed throughout the monitoring program shall meet with the requirements of AS/NZS IEC 61672.1 Sound level meters Specifications & AS/NZS IEC 61672.2 Sound level meters Pattern Evaluation.

Instrument calibration shall be checked before and after each measurement survey, with the variation in calibrated levels not exceeding ± 0.5 dBa.

7.5 METEOROLOGICAL PARAMETERS

Adverse meteorological conditions have the potential to increase noise levels, for example wind speeds up to 3 m/s or temperature inversions, however wind speeds above 5 m/s (and rainfall) have the potential to generate extraneous and erroneous noise events, which reduce the accuracy and confidence in measured data.

As such, meteorological parameters will be evaluated prior to undertaking works on site, to gain an understanding of the weather conditions and the potential for variations in noise levels.

All noise measurements shall be accompanied by both qualitative description (including cloud cover, approximate wind direction and speed) and quantitative measurements of prevailing local weather conditions throughout the survey period. Rainfall data and meteorological parameters will be collected from the weather station located on-site, as shown in *Table H*.

Table H: Meteorological Measurement Parameters

Measured Parameter	Unit	Sample Interval
Mean Wind Speed	m/s	15 minutes
Mean Wind Direction	Degrees	15 minutes
Aggregate Rainfall	mm	15 minutes
Mean Air Temperature	C°	15 minutes

Accounting For Annoying Noise Characteristics (Low Frequency Noise)

The *Noise Policy for Industry* (NPfI 2017) states that a noise source may exhibit a range of particular characteristics that increase annoyance, such as tones, impulses, low frequency noise and intermittent noise.

Where this is the case, an adjustment ('modifying factor corrections') is applied to the source noise level received at an assessment point before it is compared with criteria to account for the additional annoyance caused by the particular characteristic.

Application of these modifying factors is described in *Fact Sheet C: Corrections for annoying noise characteristics* and outlines correction factors to be applied to the source noise level at the receiver before comparison with the project noise trigger levels to account for the additional annoyance caused by those modifying factors.

The modifying factor corrections should be applied having regard to:

- the contribution noise level from the premises when assessed/measured at a receiver location, and
- the nature of the noise source and its characteristics (as set out in this fact sheet).

The NPfI provides the following definitions to support the modifying factor corrections:

- Tonal Noise – Containing a prominent frequency and characterised by a definite pitch.
- Low Frequency Noise – Containing major components within the low frequency range (20 Hz to 250 Hz) of the frequency spectrum.
- Impulsive Noise – Having a high peak of short duration or a sequence of such peaks.
- Intermittent Noise – The level suddenly drops to that of the background noise several times during the assessment period, with a noticeable change in noise level of at least 5 dB.

The modifying factor corrections (and how they are applied) are present in *Table C1* of the NPfI and vary depending on the noise characteristic being assessed. All noise levels generated by the Quarry, which may generate tonal or low frequency content, will be assessed as part of the NBMP monitoring with due regard to these modifying factor penalties, and in accordance with the requirements presented in the NPfI.

Impulsive and intermittent noise, as defined by the NPfI, are not typical characteristics of the Quarry, hence tonal and low frequency noise (LFN) are most relevant to the Quarry and those modifying corrections are reproduced in *Table 1*.

Tonal Noise	One-third octave band analysis using the objective method for assessing the audibility of tones in noise – simplified method (ISO1996.2:2007 – Annex D)	Level of one-third octave band exceeds the level of the adjacent bands on both sides by: <ul style="list-style-type: none"> • 5 dB or more if the centre frequency of the band containing the tone is in the range 500–10,000 Hz • 8 dB or more if the centre frequency of the band containing the tone is in the range 160–400 Hz • 15 dB or more if the centre frequency of the band containing the tone is in the range 25–125 Hz. 	5 dB ^{2,3}	Third octave measurements should be undertaken using unweighted or Z-weighted measurements. Note: Narrow-band analysis using the reference method in ISO1996-2:2007, Annex C may be required by the consent/regulatory authority where it appears that a tone is not being adequately identified, e.g. where it appears that the tonal energy is at or close to the third octave band limits of contiguous bands.
Low Frequency Noise	Measurement of source contribution C-weighted and A-weighted level and one-third octave measurements in the range 10–160 Hz	Measure/assess source contribution C- and A-weighted Leq,T levels over same time period. Correction to be applied where the C minus A level is 15 dB or more and: <ul style="list-style-type: none"> • where any of the one-third octave noise levels in Table C2 are exceeded by up to and including 5 dB and cannot be mitigated, a 2-dB(A) positive adjustment to measured/predicted A-weighted levels applies for the evening/night period • where any of the one-third octave noise levels in Table C2 are exceeded by more than 5 dB and cannot be mitigated, a 5-dB(A) positive adjustment to measured/predicted A-weighted levels applies for the evening/night period and a 2-dB(A) positive adjustment applies for the daytime period. 	2 or 5 dB ²	A difference of 15 dB or more between C- and A-weighted measurements identifies the potential for an unbalance spectrum and potential increased annoyance. The values in Table C2 are derived from Moorhouse (2011) for DEFRA fluctuating low-frequency noise criteria with corrections to reflect external assessment locations.

Notes:

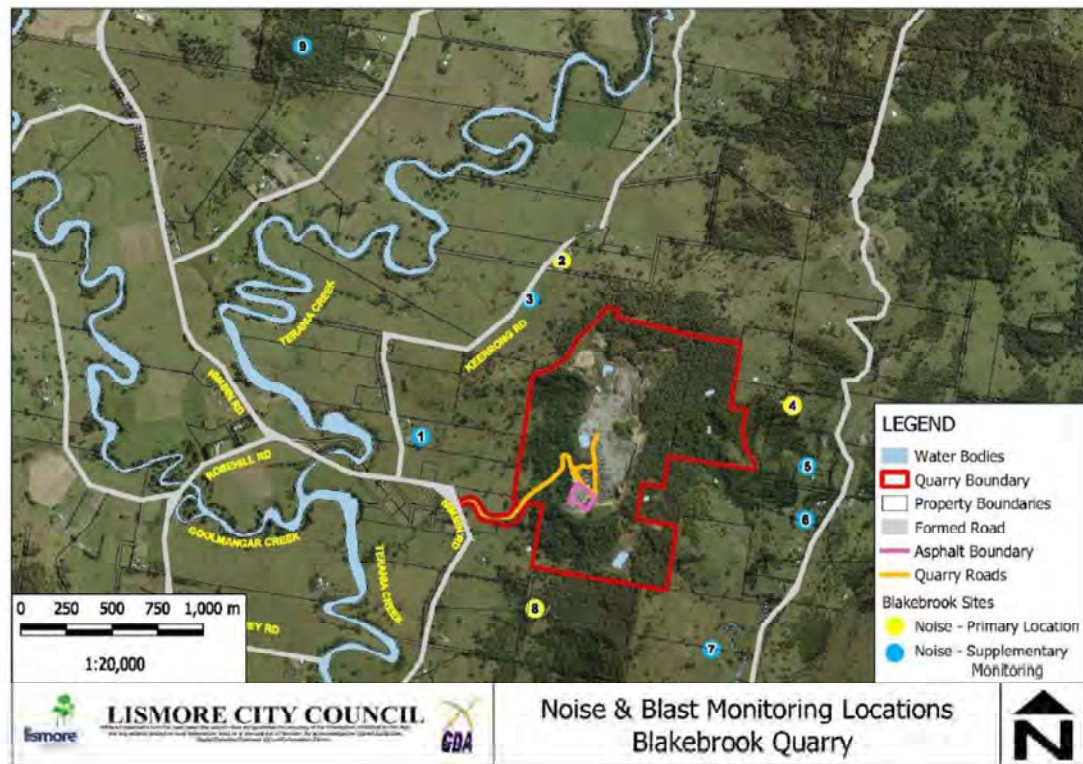
1. Corrections to be added to the measured or predicted levels, except in the case of duration where the adjustment is to be made to the criterion.
2. Where a source emits tonal and low-frequency noise, only one 5-dB correction should be applied if the tone is in the low-frequency range, that is, at or below 160 Hz.
3. Where narrow-band analysis using the reference method is required, as outlined in column 5, the correction will be determined by the ISO1996-2:2007 standard.

Noise monitoring at the receiver locations were conducted within 30m of the residential dwelling in the direction of the quarry.

Table 2.1 Primary Receiver Locations	
Receiver	Street Address
2	█ Keerrong Rd Blakebrook
4	█ Booerie Creek Road Booerie Creek
8	█ Nimbin Rd Blakebrook

Figure 2.1 Noise Monitoring Locations

Figure 2: Noise & Blast Monitoring Locations Map



3 MEASUREMENT PROCEDURE AND RESULTS

3.1 Instrumentation

Table 3.1 Instrumentation		
Instrument	Serial #	Calibration Date
Bruel & Kjaer 2250 G4 Sound Level Meter	3031300	Oct 2022
Bruel & Kjaer 2250 G4 Sound Level Meter	3008548	Dec 2021
Bruel & Kjaer 2250 G4 Sound Level Meter	3028735	Jan 2022
Bruel & Kjaer 4231 Calibrator	3029274	Oct 2022

The sound level meters (SLM) used during the noise survey conform to Australian Standard 1259 "Acoustics - Sound Level Meters", (1990) as type 1 precision sound level meters, and have an accuracy suitable for both field and laboratory use. The meters' calibrations were checked before and after the measurement periods with a Bruel & Kjaer acoustic calibrator. No significant system drift occurred over the measurement periods.

The SLMs and calibrator have been checked, adjusted and aligned to conform to the factory specifications and issued with conformance certificates by a certified NATA facility.

3.2 Measurement Procedure

Measurements were made in general accordance with procedures in:

1. Australian Standard AS 1055 : 2018 *Acoustics - Description and measurement of environmental noise*
2. The NSW Government *Noise Policy for Industry* (EPA Oct 2017)

The microphone of a B&K 2250 G4 SLM was mounted at a height of 1.2m above the ground and a Bruel and Kjaer outdoor windscreen fitted to the microphone. The SLM was located above the cliff face where the crushing and screening equipment was operating to monitor noise levels while measurements were being conducted at the receiver locations.

The microphone of a B&K 2250 G4 was mounted on a 1.5m high tripod, a Bruel and Kjaer outdoor windscreen fitted to the microphone, and located near the asphalt plant to monitor noise levels of the asphalt plant while measurements were being conducted at the receiver locations.

Both SLMs were set to record continuously for the duration of receiver monitoring with 1 second samples. The sound recording feature was utilised on both SLMs.

A third SLM (B&K 2250 G4) was mounted on a 1.2m – 1.5m high tripod and a Bruel and Kjaer outdoor windscreen fitted to the microphone. The SLM was used at the receiver locations to monitor noise levels while the quarry and asphalt plant were operating. Markers and sound recording were utilised on the sound level meter for post event analysis of acoustic events during each monitoring period.

A 15 minute period was recorded at each receiver location with A and C weighting, fast response, and 1 second samples. Spectrum data was recorded with a linear (Z) weighting in 1/3 octave bands.

The clocks on the 3 SLMs were synchronised to enable comparison of noise levels at the asphalt plant and top of quarry reference locations with noise levels at the receiver locations.

3.3 Weather Conditions

Weather conditions were generally good for acoustic measurements. Observations were taken at each receiver location with a Kestrel 3000 pocket weather meter.

Table 3.2 Receiver Locations Weather Summary 22 nd August 2023						
Receiver	Time	Temp	Relative Humidity	Wind	Wind Dir	Cloud Cover
		'C	%	Speed		
				(m/s)		
2	8:30PM	16	75	Calm		0/8
	11:20PM	15	80	Calm		0/8
4	9:44PM	18	73	Calm		0/8
	10:00PM	18	75	Calm		0/8
8	9:05PM	18	78	Calm		0/8
	10:43PM	17	77	Calm		0/8

Table 3.3 Receiver Locations Weather Summary 23 rd August 2023						
Receiver	Time	Temp	Relative Humidity	Wind	Wind Dir	Cloud Cover
		'C	%	Speed		
				(m/s)		
2	7:38AM	13	90	0.5 - 1	NW	0/8
4	9:15AM	22	75		Calm	0/8
8	8:18AM	18	70		Calm	0/8

Weather data from the weather station at Blakebrook Quarry is presented in Table 3.4 below.

Table 3.4 Blakebrook Quarry Weather Station Observations August 2023

Date	Time	AVERAGE Air Temperature 10m - DegC	AVERAGE Wind Speed 10m - km/h	AVERAGE Wind Speed 10m - m/s	AVGDIR Wind Direction 10m - Degs	S-THETA Wind Direction 10m - Degs	TOTAL Rain Gauge - mm
22/08/2023	7:10 PM	20.4	9	2.5	21	26.9	0
	7:20 PM	20.3	7.9	2.2	19.3	21.2	0
	7:30 PM	20.1	8.3	2.3	15.7	20.9	0
	7:40 PM	19.9	7.1	2.0	16.3	25.2	0
	7:50 PM	19.6	8.1	2.3	12.9	20.8	0
	8:00 PM	19.4	7.2	2.0	13.9	19.5	0
	8:10 PM	19.2	6.9	1.9	9.9	22.8	0
	8:20 PM	19	6.3	1.8	5.5	22.3	0
	8:30 PM	18.8	5.3	1.5	8	20.8	0
	8:40 PM	18.7	4.5	1.3	5.9	25	0
	8:50 PM	18.6	4.7	1.3	4.5	23.9	0
	9:00 PM	18.6	4.9	1.4	7.8	19.2	0
	9:10 PM	18.5	4.3	1.2	6.3	22.1	0
	9:20 PM	18.6	4.5	1.3	16.5	19.6	0
	9:30 PM	18.7	4.6	1.3	5.3	26.2	0
	9:40 PM	18.6	4.7	1.3	0.5	23.6	0
	9:50 PM	18.4	4.8	1.3	0.3	22.4	0
	10:00 PM	18.3	3.4	0.9	353.3	26.1	0
	10:10 PM	18.2	4.2	1.2	2.1	24	0
	10:20 PM	18	3	0.8	10.7	25.8	0
	10:30 PM	17.8	2.2	0.6	21.6	33	0
	10:40 PM	17.6	1.4	0.4	355.4	68.4	0
	10:50 PM	17.8	2.4	0.7	3.8	26.5	0
	11:00 PM	17.7	3.5	1.0	11	24.5	0
	11:10 PM	17.5	3.2	0.9	20.6	25.9	0
	11:20 PM	17.6	4.1	1.1	3	27.7	0
	11:30 PM	17.7	4	1.1	357.6	27.9	0
	11:40 PM	17.8	4.7	1.3	353.6	26.5	0
	11:50 PM	17.8	5	1.4	354.8	25.4	0
23/08/2023	7:10 AM	14.6	3.4	0.9	24.1	18.1	0
	7:20 AM	15.1	3.5	1.0	10.3	28.4	0
	7:30 AM	15.6	1.4	0.4	274.3	78.4	0
	7:40 AM	15.8	3.3	0.9	349.1	37.5	0
	7:50 AM	16.3	2.5	0.7	354.1	59.9	0
	8:00 AM	17	1.6	0.4	202.9	87.9	0
	8:10 AM	17.5	2.2	0.6	306.8	56.5	0
	8:20 AM	18.3	3.3	0.9	304.5	38.3	0
	8:30 AM	18.7	3.3	0.9	305.7	25.7	0
	8:40 AM	18.9	2.8	0.8	310.2	36.8	0
	8:50 AM	19.2	3	0.8	317.9	32.3	0
	9:00 AM	19.6	2.6	0.7	325.9	34.3	0
	9:10 AM	20	3.7	1.0	329.5	30.2	0
	9:20 AM	20.3	3.3	0.9	317.3	33.9	0
	9:30 AM	21	3.3	0.9	311.8	36.9	0
	9:40 AM	21.5	4.5	1.3	314.5	29.5	0
	9:50 AM	22	5.1	1.4	295	28.8	0
	10:00 AM	22.7	4.5	1.3	274.6	44.6	0

Wind Direction 0 and 360 degrees – North, 90 degrees – East,
180 degrees South, 270 degrees - West

3.4 Measurement Results

Table 3.5 Blakebrook Quarry Receiver Locations Measurement Summary - 22 nd August 2023								
Receiver	Start Time	Elapsed Time h:mm:ss	L _{AFmax} [dB]	L _{Aeq} [dB]	L _{Ceq} [dB]	L _{Ceq-LAeq} [dB]	L _{AF10.0} [dB]	L _{AF90.0} [dB]
2	8:59 PM	0:15:00	49.6	28.4	32.6	4.2	29.1	27.2
	12:08 AM	0:15:00	49.0	26.1	33.9	7.9	29.1	20.4
4	10:23 PM	0:15:00	44.4	33.4	36.8	3.4	35.5	29.9
	10:38 PM	0:15:00	44.8	32.9	37.3	4.4	35.1	28.6
8	9:37 PM	0:15:00	53.7	35.6	48.2	12.6	38.4	31.6
	11:27 PM	0:15:00	44.2	31.8	45.8	14.0	33.0	30.0

Table 3.6 Blakebrook Quarry Receiver Locations Measurement Summary - 23 rd August 2023								
Receiver	Start Time	Elapsed Time h:mm:ss	L _{AFmax} [dB]	L _{Aeq} [dB]	L _{Ceq} [dB]	L _{Ceq-LAeq} [dB]	L _{AF10.0} [dB]	L _{AF90.0} [dB]
2	10:58 AM	0:15:00	65.2	46.5	56.2	9.7	50.5	37.6
4	9:16 AM	0:15:00	64.8	53.3	52.6	-0.8	56.3	47.0
8	10:04 AM	0:15:00	63.2	48.0	55.4	7.4	51.8	40.0

Note:

The above results are the total ambient noise levels and includes noise from the rural surroundings and quarry noise if audible.

Post processing was conducted in Bruel & Kjaer BZ 5505 environmental noise analysis software to exclude other noise sources for the receiver location measurements. The exclude function was enabled for the traffic, animal and other markers. The total minus exclude data enables a more accurate assessment of the noise source under investigation, by eliminating data during the periods that other random noise sources occur during monitoring. The results are presented below.

Table 3.7 Receiver 2 Measurement Summary Total - Exclude August 22 nd /23 rd 2023							
Start Time	Elapsed Time h:mm:ss	L _{AFmax} [dB]	L _{Aeq} [dB]	L _{Ceq} [dB]	L _{Ceq-LAeq} [dB]	L _{AF10.0} [dB]	L _{AF90.0} [dB]
8:30PM	0:14:50	37.5	28.2	32.4	4.2	29.1	27.2
11:20PM	0:12:25	49.0	24.3	30.5	6.2	24.5	20.3
7:38AM	0:10:20	58.5	42.0	53.4	11.3	43.7	37.2

Table 3.8 Receiver 4 Measurement Summary Total - Exclude August 22 nd /23 rd 2023							
Start Time	Elapsed Time h:mm:ss	L _{AFmax} [dB]	L _{Aeq} [dB]	L _{Ceq} [dB]	L _{Ceq-LAeq} [dB]	L _{AF10.0} [dB]	L _{AF90.0} [dB]
9:44PM	0:13:50	43.2	33.3	36.6	3.3	35.4	29.8
10:00PM	0:13:58	44.8	32.9	37.2	4.3	35.1	28.8
9:15AM	0:12:58	64.8	53.3	52.2	-1.1	56.3	47.0

Table 3.9 Receiver 8 Measurement Summary Total - Exclude August 22 nd /23 rd 2023							
Start Time	Elapsed Time h:mm:ss	L _A max [dB]	L _A eq [dB]	L _C eq [dB]	L _C eq-L _A eq [dB]	L _A F10.0 [dB]	L _A F90.0 [dB]
9:05PM	0:12:35	42.4	35.1	48.1	13.0	38.1	31.5
10:43PM	0:15:00	44.2	31.8	45.8	14.0	33.0	30.0
8:18AM	0:01:10	51.5	41.4	51.2	9.8	42.9	39.1

Table 3.10 Noise Observations at Receiver Locations 22 nd August 2023 (All measurements 15 mins)			
Receiver	Start Time	Observed Noise Sources	Quarry Noise
2	8:30PM	Distant traffic Nimbin Road, insects, distant dogs barking, frogs, distant water fowl	Asphalt plant not audible
	11:20PM	Distant traffic Nimbin Road, distant cattle, insects, distant dogs barking, windmill, cattle nearby	Asphalt plant not audible
4	9:44PM	Very distant occasional traffic, distant aircraft, insects consistent (4kHz, 5kHz)	Asphalt plant not audible
	10:00PM	Very distant occasional traffic, distant traffic, distant aircraft, insects consistent (4kHz, 5kHz),	Asphalt plant not audible
8	9:05PM	Distant traffic Nimbin Road, distant aircraft	Asphalt plant audible
	10:43PM	Distant traffic Nimbin Road	Asphalt plant audible, loader audible at times

Table 3.11 Noise Observations at Receiver Locations 23 rd August 2023 (All measurements 15 mins)			
Receiver	Start Time	Observed Noise Sources	Quarry Noise
2	7:38AM	Occasional traffic on Keerrong Road, birds, distant traffic Nimbin Road, distant aircraft,	Quarry not audible
4	9:15AM	Bird noise very dominant, light aircraft	Occasional low frequency from quarry
8	8:18AM	Consistent road traffic noise from Nimbin Road, consistent birds, nearby light aircraft	Quarry just audible when no traffic or birds, occasional loud bangs,

3.5 Low Frequency Analysis

The difference between the A and C L_{eq} levels at all three receiver was less than 15 decibels, so no low frequency analysis is required.

4 DISCUSSION OF RESULTS

The noise loggers above the quarry and near the asphalt plant indicated that there was consistent quarry and asphalt plant noise during the measurement periods at receiver locations (graphs D1, D2, D3).

Receiver 2

Quarry noise was not audible for any monitoring period. The background noise level (20.3 dB $L_{A90,15min}$) during the late night was very low.

There was consistent bird noise, which contributed to the higher L_{Aeq} noise levels during the day, when compared to previous noise surveys.

The $L_{Aeq,15 min}$ of the quarry operations is estimated to be below 30 dB(A).

Receiver 4

The asphalt plant was not audible during the evening and night time monitoring periods. Occasional low frequency from quarry operations were audible during the day period.

There was consistent bird noise during the day time monitoring period, which elevated overall L_{Aeq} , L_{A10} and L_{A90} noise levels compared to previous noise surveys.

Based on the measured data and analysis, it is estimated quarry operations at Receiver 4 are below 30 dB(A) $L_{eq,15min}$ for calm meteorological conditions.

Receiver 8

Quarry noise was audible at Receiver 8 for the day, evening and night time periods. The crushing operations only occur during the day and were operating at the central area of the quarry. The asphalt plant was operating during all measurement periods and has been identified as the contributing factor to the audible quarry noise at Receiver 8.

It was noted that there were down wind conditions during measurements at Receiver 8 and presents a worst-case scenario.

Table 3.9 indicates the total noise level, less the other identified noises. The L_{Aeq} was 31.8 for the night time, 35.1 for the evening and 41.4 for the day time. For the day time period, there was only 70 seconds of time where there were no other noise sources, other than the road traffic noise on Nimbin Road, which contributed to the higher L_{Aeq} , L_{A10} and L_{A90} noise levels compared to the evening and night time.

The asphalt plant noise levels were consistent during the evening and night time monitoring periods. There was a four minute period at the beginning of the day time monitoring period where the quarry equipment was not operating due to a breakdown. This was only notified after all the monitoring equipment had been packed up. The day time noise level at the reference monitoring location approximately 45m from the plant, indicated day time noise levels was approximately 3 decibels higher during the day time period compared to the night time period.

Based on the background noise levels of 31.5 for the evening and 30.0 for the night and an increase of 3 decibels for the day time, it is estimated the day time noise levels at Receiver 8 are approximately 35 dB(A) $L_{eq,15min}$, under down wind conditions.

Receiver 8 complies with the Noise and Blast Management Plan for Blakebrook Quarry (Lismore City Council Oct 2022).

The resident at Receiver 8 noted that they do hear the quarry, but generally does not bother them. The resident noted that occasionally reversing beepers were audible.

It is recommended that all operations are designed so that external vehicles operating near the asphalt plant and weighbridge areas are required to only travel in the forward direction.

5 SUMMARY AND CONCLUSION

The Blakebrook Quarry operates under the New South Wales Government Environment Protection Authority, Environmental Protection Licence, EPL No. 3384. Noise emissions from quarry and asphalt plant operations at nearby residential receivers, is managed by the Noise and Blast Management Plan for Blakebrook Quarry (Lismore City Council Oct 2022), and includes an Out of Hours Work Protocol for the asphalt plant.

A supplementary noise monitoring survey was conducted to assess the noise levels of quarry and asphalt plant operations at Blakebrook Quarry due to exceedances at a receiver location from a previous noise survey in June 2023.

It was noted that the exceedances occurred during downwind conditions with the asphalt plant operating. The operators of the asphalt plant have replaced some of the fan units.

Noise compliance monitoring was conducted at all three receiver locations on the evening and night of the 22nd and the morning of the 23rd of August with the quarry and asphalt plant operating under normal load conditions and suitable weather conditions, to check noise levels after the fans were upgraded.

The quarry operations were not audible at Receiver 2 during the day, evening and night time periods. It is estimated quarry operations are below 30 dB(A) $L_{Aeq,15min}$, which is below the day, evening and night time noise limits.

At Receiver 4, the asphalt plant was not audible during the evening and night time monitoring periods. Occasional low frequency from quarry operations were audible during the day period. Based on the measured data and analysis, it is estimated quarry operations at Receiver 4 are below 30 dB(A) $L_{Aeq,15min}$ for calm meteorological conditions and complies with the day, evening and night time noise limits.

Quarry noise was audible at Receiver 8 for the day, evening and night time periods and mainly contributed to the asphalt plant. It is estimated the noise levels are approximately 30 – 32 dB(A) $L_{Aeq,15min}$ for the evening and night time periods and 35 dB(A) $L_{Aeq,15min}$ for the day time period at Receiver 8. The noise levels at Receiver 8 complies with the noise limits in the Noise and Blast Management Plan for Blakebrook Quarry.

The asphalt plant was consistent during all monitoring periods. The day time noise level at the reference monitoring location approximately 45m from the plant, indicated day time noise levels was approximately 3 decibels higher during the day time period compared to the night time period.

Based on the background noise levels of 31.5 for the evening and 30.0 for the night and an increase of 3 decibels for the day time, it is estimated the day time noise levels at Receiver 8 are approximately 35 dB(A) $L_{Aeq,15min}$, under down wind conditions for the day time.

The resident at Receiver 8 noted that they do hear the quarry, but generally does not bother them. The resident noted that occasionally reversing beepers were audible.

It is recommended that all operations are designed so that external vehicles operating near the asphalt plant and weighbridge areas are required to only travel in the forward direction.

Receiver 8 is close to the southern cell. It is recommended that noise monitoring be conducted at Receiver 8 when work in the southern cell is undertaken, to assess the noise impact at Receiver 8.



Acoustic Consultant
Ambience Audio Services

APPENDIX A

Definitions of Terms

Sound pressure level (L_p): A measurable quantity of the size or amplitude of the pressure fluctuations (sound waves) above and below normal atmospheric pressure compared to a reference pressure. Sound pressure levels are measured in decibels whereas sound pressure is measured in pascals (N/m^2).

Decibels (dB): a ratio of energy flows. When used for sound measurement, it is the ratio between a measured quantity of sound pressure and an agreed reference sound pressure. The dB scale is logarithmic and uses the threshold of hearing of $20 \mu Pa$ (micro pascals) as the reference pressure. This reference level is defined as 0 dB.

Frequency (Hz): The number of pressure variations per second (cycles per second) is called the **frequency** of sound and is measured in **Hertz (Hz)**. The rumble of distant thunder has a low frequency, while a whistle has a high frequency. The normal range of hearing for a healthy young person extends from approximately 20Hz up to 20 000 Hz (20 kHz) while the range from the lowest to highest note on a piano is approximately 27.5 Hz to 4.2 kHz.

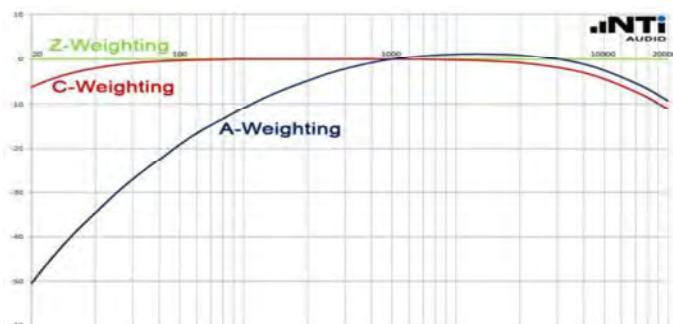
Spectral characteristics: The frequency content of noise.

Octave: a logarithmic unit for ratios between frequencies, with one octave corresponding to a doubling of frequency. For example, the frequency one octave above 40 Hz is 80 Hz.

1/3 Octave: a logarithmic unit of frequency ratio equal to one third of an octave.

“A” frequency weighting: The method of frequency weighting the electrical signal within a noise-measuring instrument to give a very approximate simulate to the human perception of loudness. The symbols for the noise parameters often include the letter “A” (e.g., L_{Aeq} , dBA) to indicate that frequency weighting has been included in the measurement. “A” weighting is most commonly used with regard to noise control issues, regulations and environmental standards.

“C” frequency weighting: The filters used in C weighting captures lower frequencies than A weighting as indicated in the chart below.



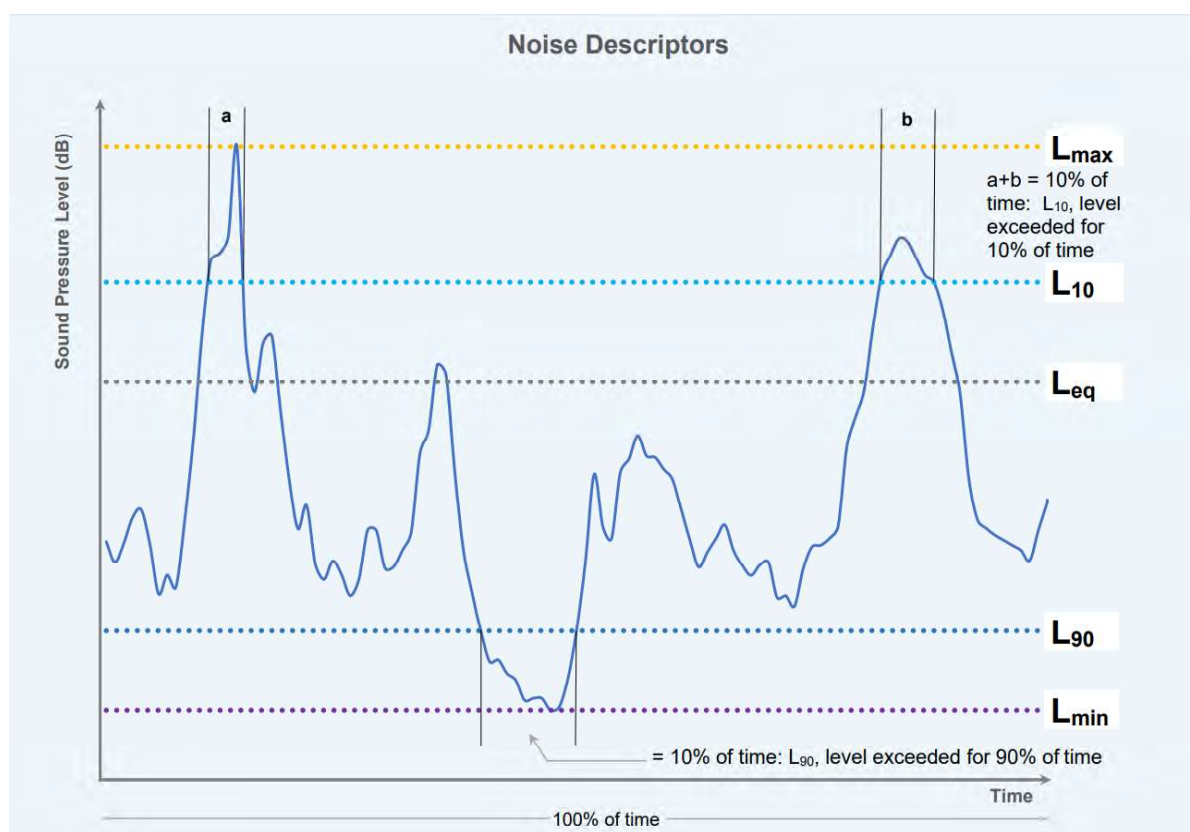
The A-weighting curve is used extensively for general purpose noise measurements but the C-weighting correlates better with the human response to high noise levels.

Fast, Slow and Impulse time weightings: Standardised root-mean-square (rms) averaging times to help define fluctuating noise levels. Impulsive noises have high peak levels with a very short duration (e.g., gun shot), or a sequence of such peaks. The 'Slow' time weighting averages the fluctuations over a one second time base whilst the 'Fast' time weighting averages the fluctuations over a one-eighth of a second time base. Environmental assessment standards usually specify the time weighting (**F**, **S**, or **I**) to be used.

L_{Aeq}: The A-weighted equivalent continuous noise level. A widely used noise descriptor which provides an average of the energy of a constant level of noise which is the same as the varying noise signal being measured. The time in which the measurement was sampled, is indicated with a subscripted number e.g. L_{Aeq,15 minute} is a 15-minute sample.

Percentile Levels L_N: The sound pressure level that is exceeded for N per cent of the time over which a given sound is measured. e.g. **L_{A90}** is the A-weighted sound pressure level that is exceeded for 90% of the time over which a given sound is measured.

L_{A90} is commonly used to describe the **background noise level** for community noise assessments.



Ambient noise: The all-encompassing noise associated within a given environment. It is the composite of sounds from many sources, both near and far.

Extraneous noise: Noise resulting from activities that are not typical of the area. Atypical activities may include construction, and traffic generated by holiday periods and by events such as concerts or sporting events. Normal daily traffic is not to be considered extraneous.

Background noise: The underlying level of noise present in the ambient noise, excluding the noise source under investigation, when extraneous noise is removed. This is described using the **L_{A90}** descriptor, fast time weighting.

Intrusive Noise: Refers to noise that intrudes above the background level by more than 5 decibels.

Noise limits: Enforceable noise levels that appear in consents and licences. The noise limits are based on achievable noise levels, which the proponent has predicted can be met during the environmental assessment. Exceedance of the noise limits can result in the requirement for either the development of noise management plans or legal action.

References:

Measuring Sound Brüel and Kjær Sound & Vibration Measurements A/S
September 1984

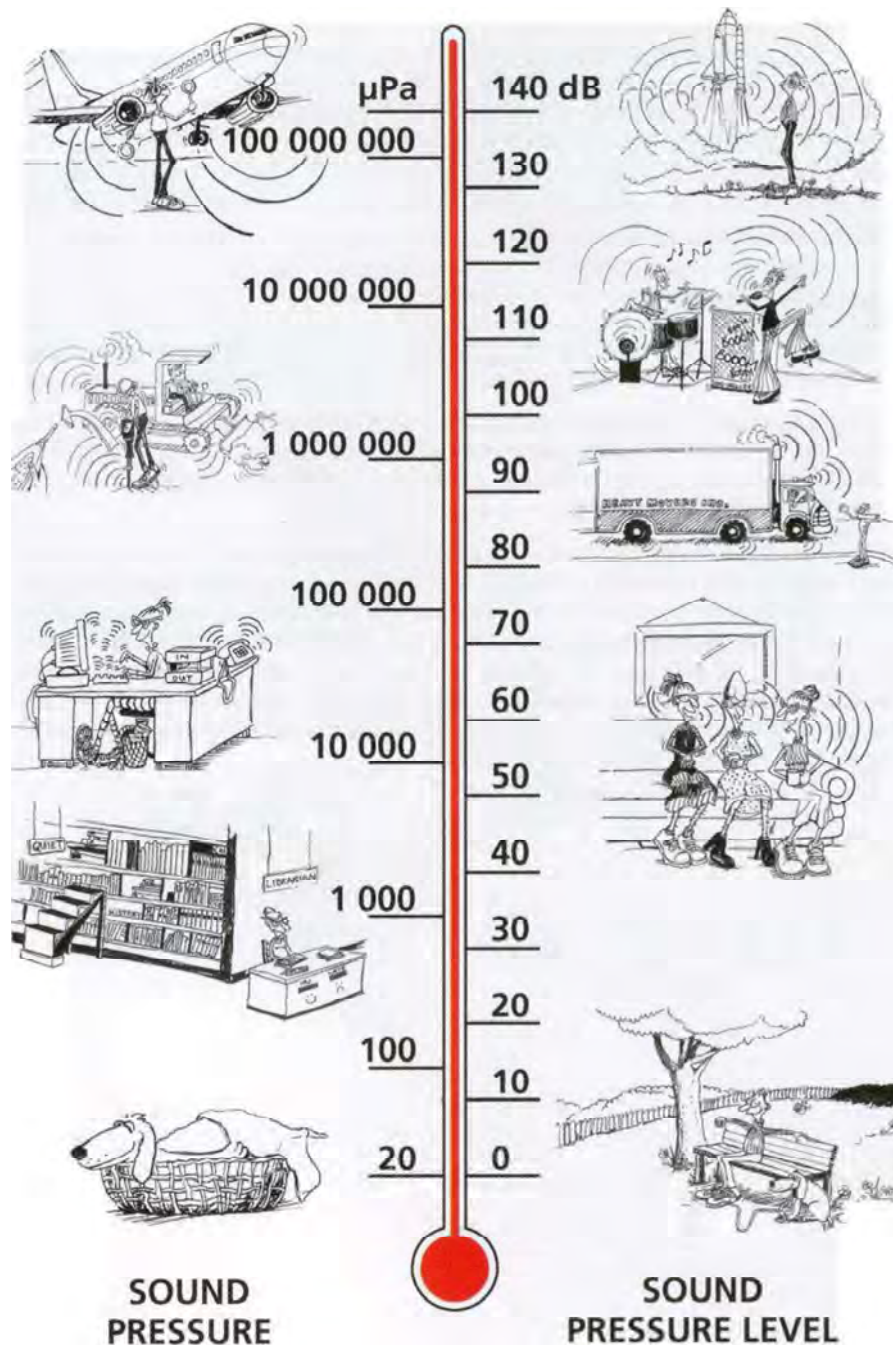
Environmental Noise Brüel and Kjær Sound & Vibration Measurements A/S
2000, 2001

New South Wales Industrial Noise Policy NSW Environment Protection
Authority January 2000

<https://www.nti-audio.com/en/support/know-how/frequency-weightings-for-sound-level-measurements>

APPENDIX B

Comparison of Sound Pressure Levels



Our hearing covers a wide range of sound pressures – a ratio of over a million to one. The dB scale makes the numbers manageable.

Reproduced from

Environmental Noise Brüel and Kjær Sound & Vibration Measurements A/S
2000, 2001

Appendix C
Quarry Operations 23rd August 2023



Image Source – Lismore City Council Online Mapping
Note : Aerial photo not of June 2023 operations

Quarry Pit Floor Operations 23rd August 2023



Quarry equipment in use during noise monitoring

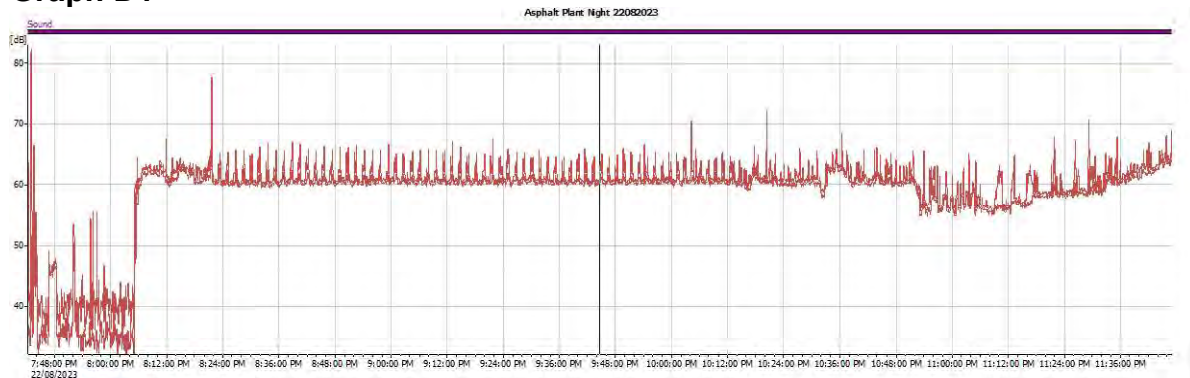
- 1 x Kleeman MC110z jaw crusher
- 1 x Mcloskey R155 reclaimer
- 1 X Komatsu WA500 loader
- 1 x Cat 329 excavator

- 1 x water truck
- various haul trucks
- various service vehicles

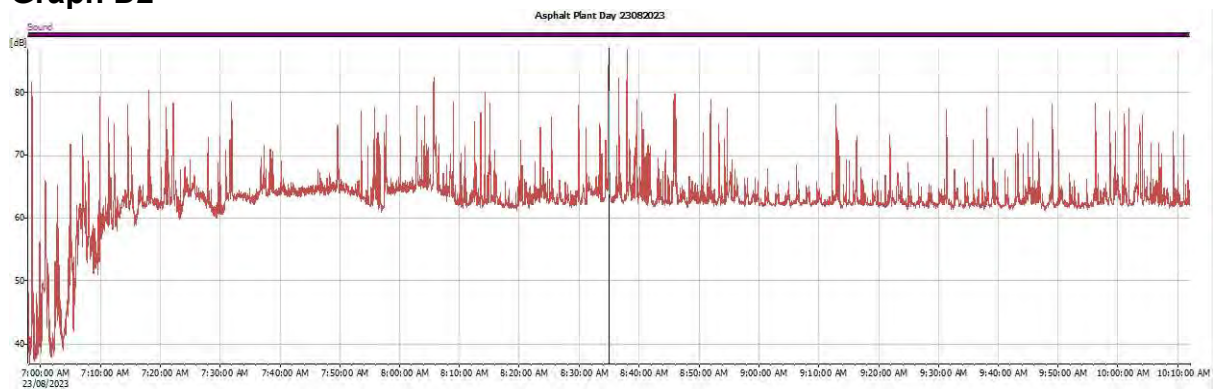
APPENDIX D

LAF_{max} Logged Noise Level Graphs 22nd & 23rd August 2023

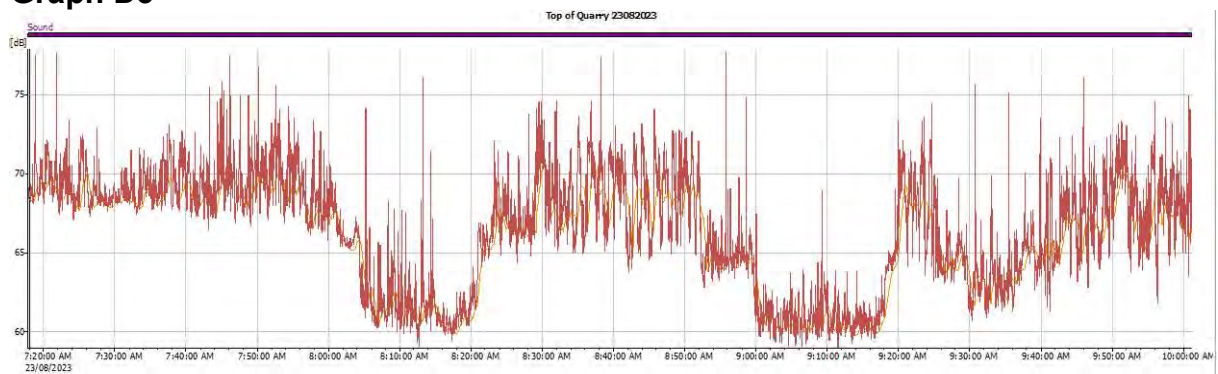
Graph D1



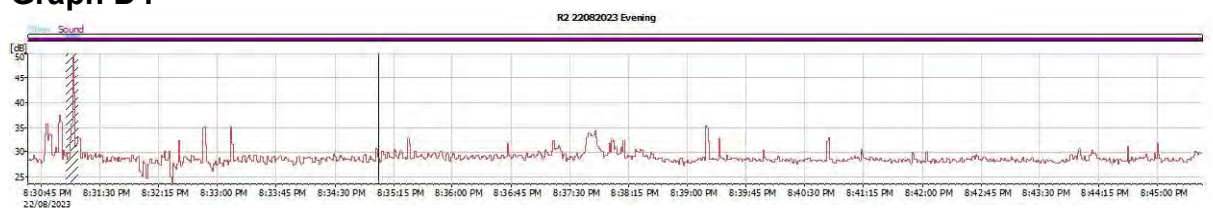
Graph D2



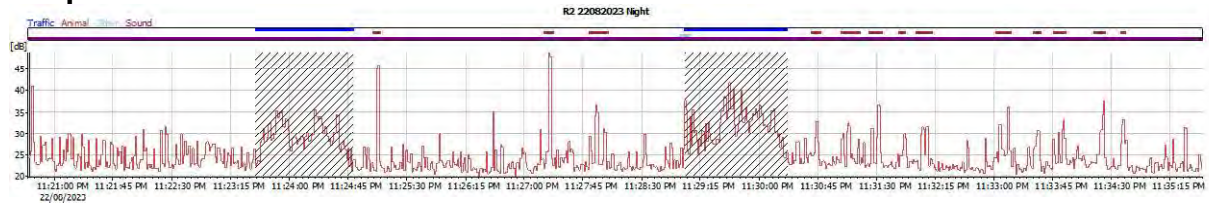
Graph D3



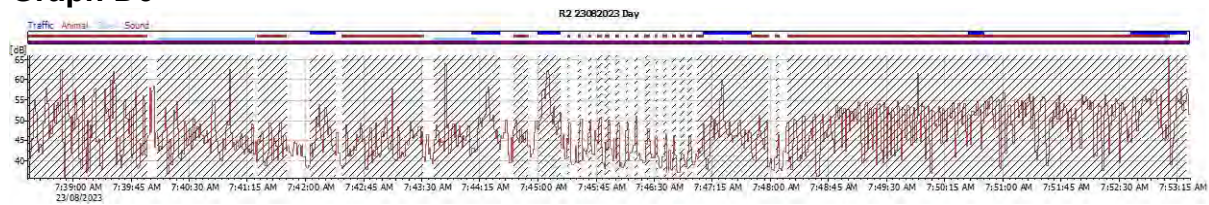
Graph D4



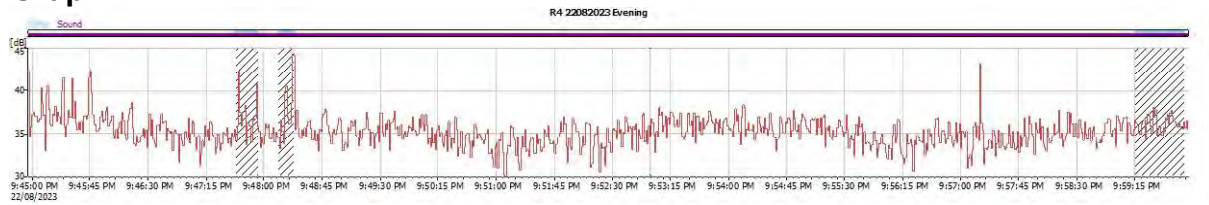
Graph D5



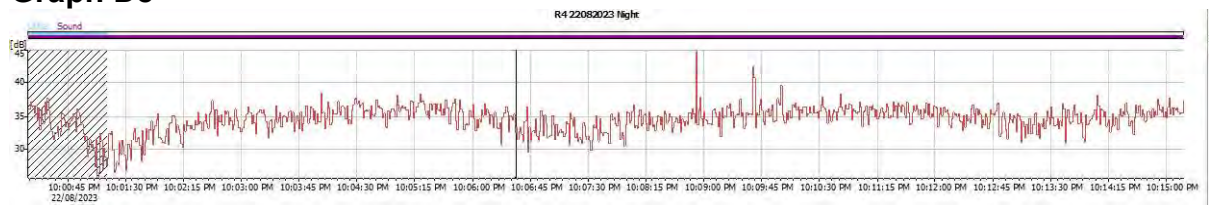
Graph D6



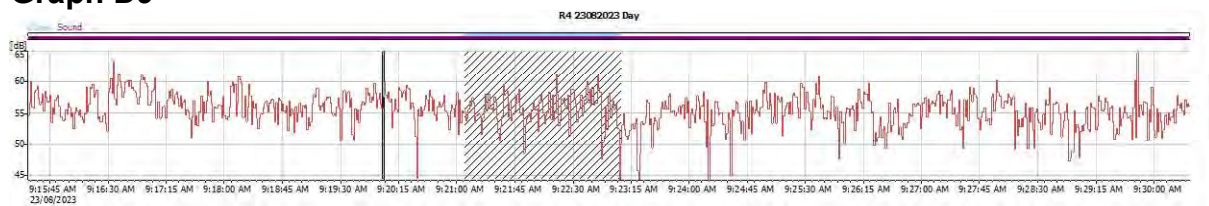
Graph D7



Graph D8



Graph D9



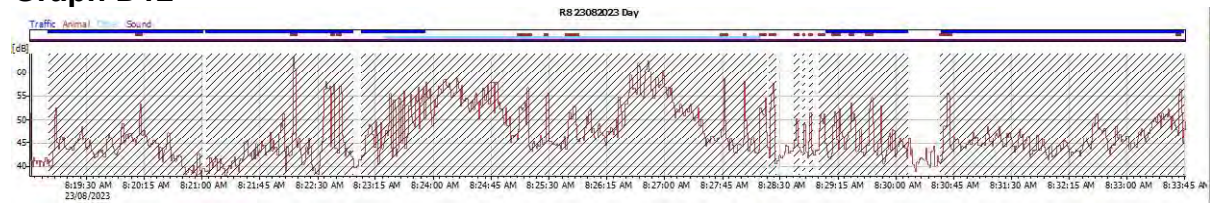
Graph D10



Graph D11



Graph D12





Appendix M

Blast Reports



Results Summary Report

Customer	Blakebrook Quarry	
Date of blast	07-02-2023	
Blast number	02	
Monitor Location	Location 2	
Monitor name/ model details:	Monitor 2 - Micromate	
Monitor Serial no	UM10342	
Calibration date	03.06.2022	
Instrumentation used to measure the airblast overpressure and ground vibration levels meets the requirements of Australian Standard AS 2187.2-2006.		Y
Airblast overpressure result (dB)	No result triggered	
Ground vibration result (PPV)	No result triggered	
Peak Vector Sum (PVS)	NA	
Licence limits	Airblast overpressure - 115 dB Ground vibration (PPV) - 5mm/s	
Comments	<i>Monitor set to record airblast overpressure above 110 dB Monitor set to record ground vibration above 0.5 mm/s</i>	

Monitor Location	Location 8	
Monitor name/ model details:	Monitor 3 – InstanTEL Minimate	
Monitor Serial no	BE22005	
Calibration date	15.03.2022	
Instrumentation used to measure the airblast overpressure and ground vibration levels meets the requirements of Australian Standard AS 2187.2-2006.		Y
Airblast overpressure result (dB)	98.8 dB	
Ground vibration result (PPV)	1.922 mm/s	
EPL limits	Airblast overpressure - 115 dB Ground vibration (PPV) - 5mm/s	
Comments	<i>Compliant</i>	

Monitor Location	Location 4	
Monitor name/ model details:	Monitor 4 – Blastmate III	
Monitor Serial no	BA17309	
Calibration date	18.01.2023	
Instrumentation used to measure the airblast overpressure and ground vibration levels meets the requirements of Australian Standard AS 2187.2-2006.		Y
Airblast overpressure result (dB)	No result triggered	
Ground vibration result (PPV)	No result triggered	
EPL limits	Airblast overpressure - 115 dB Ground vibration (PPV) - 5mm/s	
Comments	<i>Monitor set to record ground vibration above 0.5 mm/s Monitor set to record airblast overpressure above 110 dB – no event was recorded.</i>	

Monitor Location	Additional residence – [REDACTED] Keerrong Rd	
Monitor name/ model details:	Monitor 1 – Micromate	
Monitor Serial no	UM10341	
Calibration date	2.6.2022	
Instrumentation used to measure the airblast overpressure and ground vibration levels meets the requirements of Australian Standard AS 2187.2-2006.		Y
Airblast overpressure result (dB)	No result triggered	
Ground vibration result (PPV)	No result triggered	
EPL limits	Airblast overpressure - 115 dB Ground vibration (PPV) - 5mm/s	
Comments	Monitor set to record airblast overpressure above 110 dB Monitor set to record ground vibration above 0.5 mm/s – no event was recorded.	

Name:	[REDACTED]	
Signature:	[REDACTED]	
Position:	Owner/Director	Date:8-2-2023

Monitor 1 - No trigger

Event Report: Event List - d:\um10341\2023-02-07.14

Type	Serial No.	Date/Time	No. Chan	Trigger	Tran Peak (mm/s)	Vert Peak (mm/s)	Long Peak (mm/s)	Mic Peak (dB)	PVS1 (mm/s)	Description
LOG	UM10341	Feb 7 /23 13:42:15	***	***	***	***	***		***	Start Monitoring
LOG	UM10341	Feb 7 /23 14:29:06	***	***	***	***	***		***	Stop Monitoring

Monitor 1 - Non trigger Events

Event Report: Monitor Log

Start Time	End Time	Status
Feb 7 /23 13:42:15		SERIAL NUMBER: UM10341
Feb 7 /23 13:42:22	Feb 7 /23 13:42:25	Start Monitoring Waveform Geo: 0.500 mm/s Mic: 110.0 dB
Feb 7 /23 14:00:58	Feb 7 /23 14:01:01	Event recorded. Trigger Level MicL: 110.0 dB
Feb 7 /23 14:12:15	Feb 7 /23 14:12:18	Event recorded. Trigger Level MicL: 110.0 dB
Feb 7 /23 14:19:50	Feb 7 /23 14:19:53	Event recorded. Trigger Level Tran: 0.500 mm/
Feb 7 /23 14:25:12	Feb 7 /23 14:25:15	Event recorded. Trigger Level MicL: 110.0 dB
Feb 7 /23 14:26:17	Feb 7 /23 14:26:20	Event recorded. Trigger Level MicL: 110.0 dB
Feb 7 /23 14:26:22	Feb 7 /23 14:26:25	Event recorded. Trigger Level MicL: 110.0 dB
Feb 7 /23 14:26:28	Feb 7 /23 14:26:30	Event recorded. Trigger Level MicL: 110.0 dB
Feb 7 /23 14:26:41	Feb 7 /23 14:26:43	Event recorded. Trigger Level MicL: 110.0 dB
Feb 7 /23 14:26:53	Feb 7 /23 14:26:56	Event recorded. Trigger Level MicL: 110.0 dB
Feb 7 /23 14:29:00	Feb 7 /23 14:29:03	Event recorded. Trigger Level MicL: 110.0 dB
Feb 7 /23 14:29:03	Feb 7 /23 14:29:06	Event recorded. (Keyboard Exit) Waveform Geo: 0.500 mm/s Mic: 110.0 dB

Monitor 2

Event Report: Event List - d:\um10342\2023-02-07.16\dir002

Type	Serial No.	Date/Time	No. Chan	Trigger	Tran Peak (mm/s)	Vert Peak (mm/s)	Long Peak (mm/s)	Mic Peak (dB)	PVS1 (mm/s)	Description
W	UM10342	Feb 7 /23 13:46:22	4	Tran	0.276	0.339	0.536	<88L	0.658	
W	UM10342	Feb 7 /23 14:02:28	4	MicL	0.047	0.047	0.047	101.1L	0.062	
W	UM10342	Feb 7 /23 14:02:57	4	MicL	0.055	0.063	0.047	103.9L	0.069	
W	UM10342	Feb 7 /23 14:03:02	4	MicL	0.055	0.055	0.055	107.1L	0.064	
W	UM10342	Feb 7 /23 14:03:12	4	MicL	0.055	0.071	0.047	108.0L	0.072	
W	UM10342	Feb 7 /23 14:03:15	4	MicL	0.055	0.063	0.055	108.9L	0.069	
W	UM10342	Feb 7 /23 14:03:18	4	MicL	0.047	0.063	0.055	111.1L	0.068	
W	UM10342	Feb 7 /23 14:03:21	4	MicL	0.047	0.055	0.047	112.2L	0.061	
W	UM10342	Feb 7 /23 14:03:24	4	MicL	0.047	0.055	0.047	109.7L	0.069	
W	UM10342	Feb 7 /23 14:04:03	4	MicL	0.055	0.039	0.047	100.9L	0.069	
W	UM10342	Feb 7 /23 14:04:08	4	MicL	0.055	0.055	0.055	103.1L	0.074	
W	UM10342	Feb 7 /23 14:05:25	4	MicL	0.063	0.055	0.055	104.6L	0.078	
W	UM10342	Feb 7 /23 14:05:29	4	MicL	0.063	0.063	0.055	105.5L	0.078	
W	UM10342	Feb 7 /23 14:08:54	4	MicL	0.063	0.055	0.063	100.0L	0.083	
W	UM10342	Feb 7 /23 14:10:20	4	MicL	0.055	0.063	0.063	100.5L	0.073	
W	UM10342	Feb 7 /23 14:16:20	4	MicL	0.055	0.047	0.047	106.6L	0.058	
W	UM10342	Feb 7 /23 14:18:51	4	MicL	0.047	0.047	0.047	109.4L	0.058	
W	UM10342	Feb 7 /23 14:20:07	4	MicL	0.047	0.079	0.055	100.3L	0.079	
W	UM10342	Feb 7 /23 14:20:35	4	Tran	0.276	0.166	0.197	<88L	0.284	

Event Report: Monitor Log - # BA17309-Compliance

Start Time	End Time	Status
SERIAL NUMBER: BA17309		
Feb 7 /23 13:05:12		Start Monitoring Trigger Level: Geo: 0.510 mm/s Mic: 110.0 dB(L)
Feb 7 /23 13:05:16	Feb 7 /23 13:05:19	Event recorded. Trigger Level Long: 0.510 mm/s
Feb 7 /23 13:05:33		Start Monitoring Trigger Level: Geo: 0.510 mm/s Mic: 110.0 dB(L)
Feb 7 /23 13:05:38	Feb 7 /23 13:05:41	Event recorded. Trigger Level Long: 0.510 mm/s
Feb 7 /23 13:05:54		Start Monitoring Trigger Level: Geo: 0.510 mm/s Mic: 110.0 dB(L)
Feb 7 /23 13:18:34	Feb 7 /23 13:18:37	Event recorded. Trigger Level Tran: 0.510 mm/s
Feb 7 /23 13:18:51		Start Monitoring Trigger Level: Geo: 0.510 mm/s Mic: 110.0 dB(L)
Feb 7 /23 13:22:32	Feb 7 /23 13:22:34	Event recorded. (Keyboard Exit) Trigger Level Long: 0.510 mm/s

Note: AEST (not AEDT)

Date/Time Long at 14:16:53 February 7, 2023
Trigger Source Geo: 0.510 mm/s, Mic: 109.5 dB(L)
Range Geo: 254.0 mm/s
Record Time 1.0 sec at 1024 sps
Job Number: 1

Serial Number BE22005 V 10.72-8.17 MiniMate Plus
Battery Level 6.3 Volts
Unit Calibration March 15, 2022 by Saros Int
File Name __TEMP.EVT

Notes

Location: Monitoring Point 8
 Client:
 User Name:
 General:

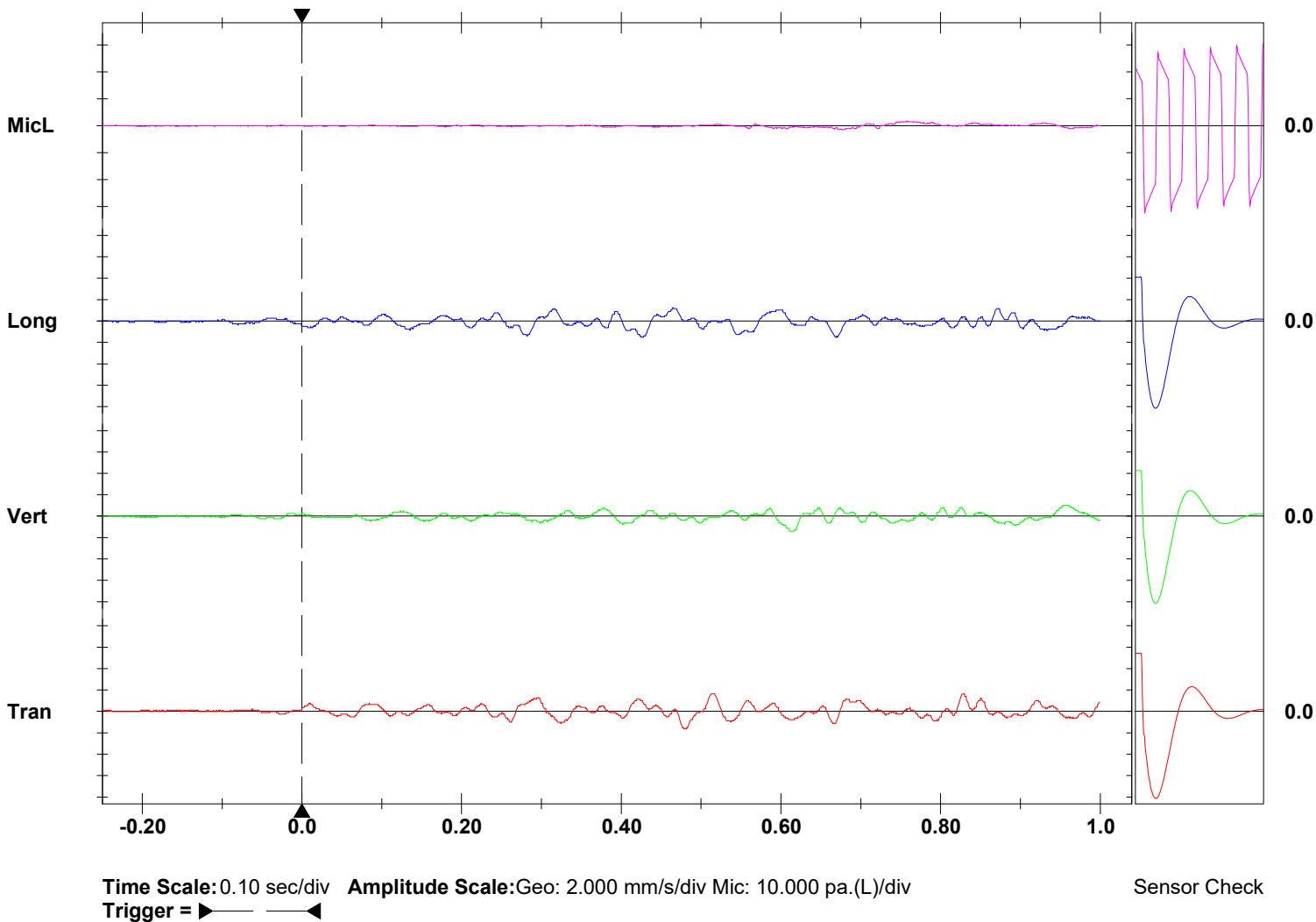
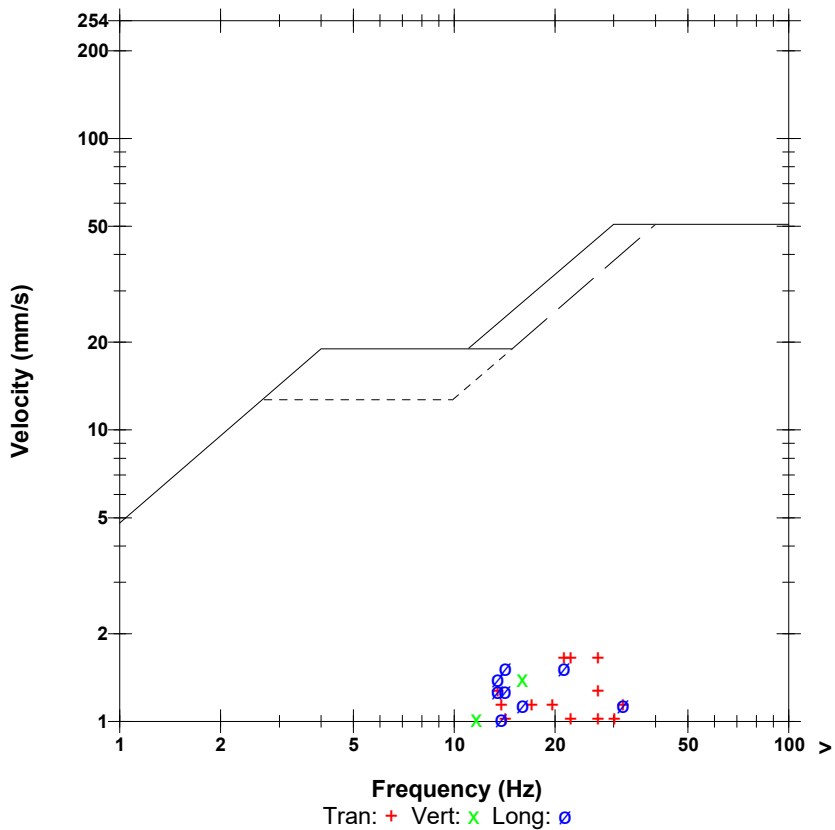
Extended Notes

Microphone Linear Weighting
PSPL 98.8 dB(L) at 0.757 sec
ZC Freq 7.3 Hz
Channel Test Passed (Freq = 19.7 Hz Amp = 475 mv)

	Tran	Vert	Long	
PPV	1.651	1.397	1.524	mm/s
ZC Freq	21	16	14	Hz
Time (Rel. to Trig)	0.479	0.611	0.425	sec
Peak Acceleration	0.040	0.027	0.027	g
Peak Displacement	0.015	0.014	0.017	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.5	7.6	Hz
Overswing Ratio	3.6	3.4	3.6	

Peak Vector Sum 1.922 mm/s at 0.668 sec

USBM RI8507 And OSMRE



Results Summary Report

Customer	Blakebrook Quarry		
Date of blast	16/3/23		
Blast number	3 3 1 1		
Monitor Location	Location 2 1 Keerrong Rd Blakebrook) 1 MONITOR		
Monitor name/ model details:	INSTANTEL MINIMATE		
Monitor Serial no	UM 10341		
Calibration date	2/6/22		
Instrumentation used to measure the airblast overpressure and ground vibration levels meets the requirements of Australian Standard AS 2187.2-2006.			(Y)
Airblast overpressure result (dB)	100.3 OBL		
Ground vibration result (PPV)	2.133 mm/sec		
Licence limits	Airblast overpressure - 115 dB Ground vibration (PPV) - 5mm/s		
Comments	NO PROBLEMS		

Monitor Location	Location 8 1 Nimbin Rd Blakebrook) 3 MONITOR		
Monitor name/ model details:	INSTANTEL MINIMATE		
Monitor Serial no	BE 22005		
Calibration date	17/2/23		
Instrumentation used to measure the airblast overpressure and ground vibration levels meets the requirements of Australian Standard AS 2187.2-2006.			(Y)
Airblast overpressure result (dB)	NO TRIGGER AT 12:04 pm.		
Ground vibration result (PPV)	NO TRIGGER AT 12:04 pm.		
EPL limits	Airblast overpressure - 115 dB Ground vibration (PPV) - 5mm/s		
Comments			

Monitor Location	Location 4 1 Booerie Creek Road Booerie Creek) 4 MONITOR		
Monitor name/ model details:	INSTANTEL BLASTIMATE III		
Monitor Serial no	BA 17309		
Calibration date	18/1/23		
Instrumentation used to measure the airblast overpressure and ground vibration levels meets the requirements of Australian Standard AS 2187.2-2006.			(Y)
Airblast overpressure result (dB)	100.0 OBL		
Ground vibration result (PPV)	2.261 mm/sec		
EPL limits	Airblast overpressure - 115 dB Ground vibration (PPV) - 5mm/s		
Comments	NO PROBLEMS		

Monitor Location	I	Additional residence - [REDACTED] Keerrong Rd	2. Monitor
Monitor name/ model details:	INSTANTEA MINIMATR		
Monitor Serial no	UM10342		
Calibration date	2/6/22		
Instrumentation used to measure the airblast overpressure and ground vibration levels meets the requirements of Australian Standard AS 2187.2-2006.			(Y)
Airblast overpressure result (dB)	88 DBL		
Ground vibration result (PPV)	0.478 mm/sec		
EPL limits	Airblast overpressure - 115 dB Ground vibration (PPV) - 5mm/s		
Comments	NO PROBLEMS		

Name:	[REDACTED]	
Signature:	[REDACTED]	
Position:	MANAGER	Date: 16/3/23

No Trigger Report Summary Report (if required)

Customer	Northern Rivers Quarry (Blakebrook Quarry)	
Date of blast	16/3/23	
Blast number	3	
Monitor Location	i.e. Primary Monitoring Location 8 [REDACTED] Nimbin Road, Blakebrook)	
Monitor name/ model details:	INSTANTEL MINIMATE Monitor 3	
Monitor Serial no	BE 22005	
Calibration date	17/2/23	
Instrumentation used to measure the airblast overpressure and ground vibration levels meets the requirements of Australian Standard AS 2187.2-2006.		Y/N
Airblast overpressure result (dB)	NO TRIGGER	
Ground vibration result (PPV)	NO TRIGGER	
EPL limits	Airblast overpressure - 115 dB Ground vibration (PPV) - 5mm/s	
Comments	i.e. Monitor was set to record ground vibration above xx mm/s – no event was recorded. MONITOR SET ON 0.5mm/sec and 110 DBL - This monitor report is compliant with EPL conditions and has been undertaken in accordance with AS 2187.2-2006	

Name:	[REDACTED]
Position:	MANAGER
Signature:	[REDACTED]
Date:	16/3/23

Date/Time Long at 12:07:14 March 16, 2023
Trigger Source Geo: 0.127 mm/s, Mic: 100.00 dB(L)
Range Geo: 254.0 mm/s
Record Time 3.0 sec at 2048 sps
Operator/Setup: Operator/Default Micromate DIN.MMB

Serial Number UM10342 V 10-90GC Micromate DIN
Battery Level 3.8 Volts
Unit Calibration June 2, 2022 by Saros Int
File Name UM10342_20230316120714.IDFW

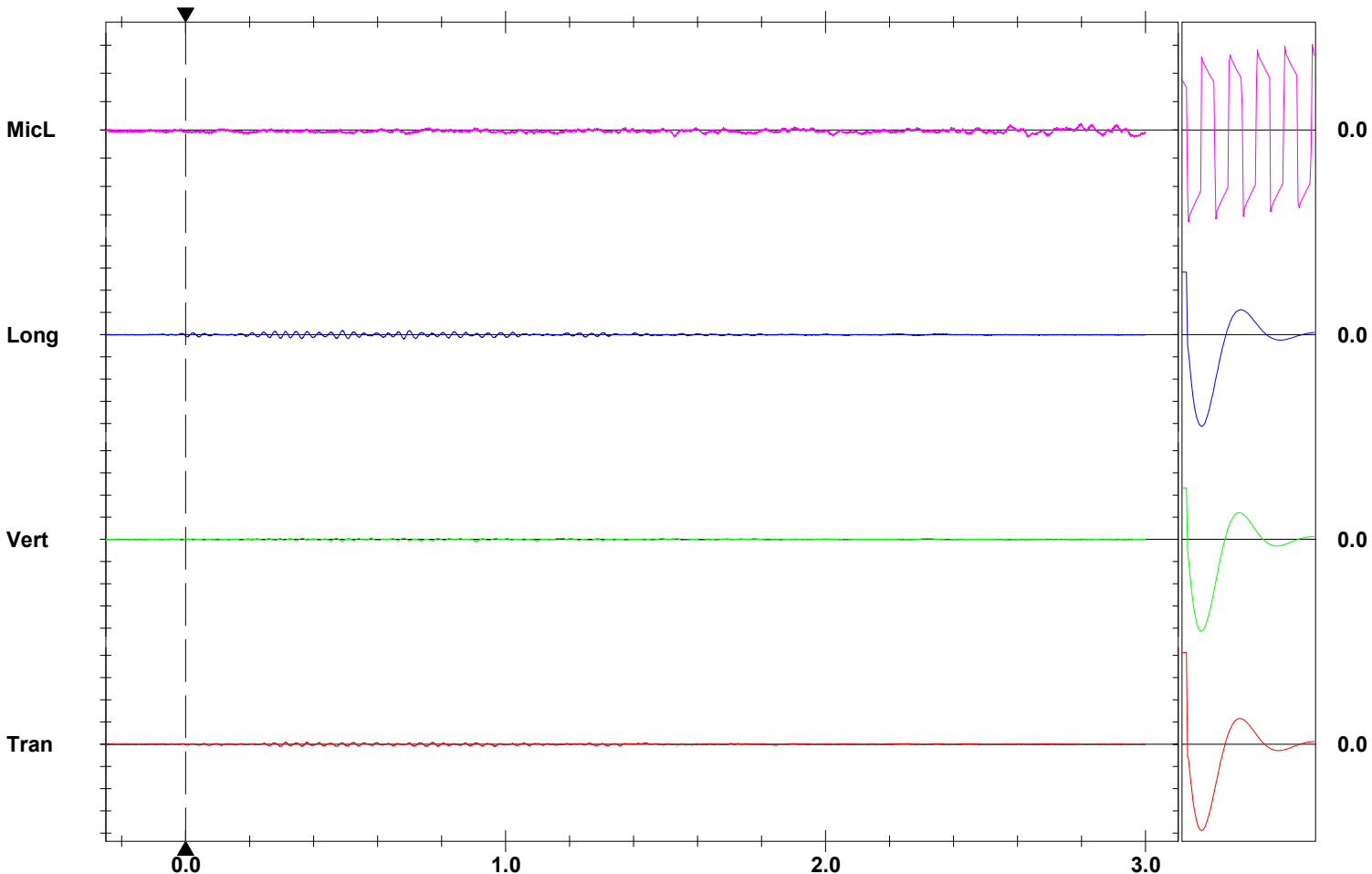
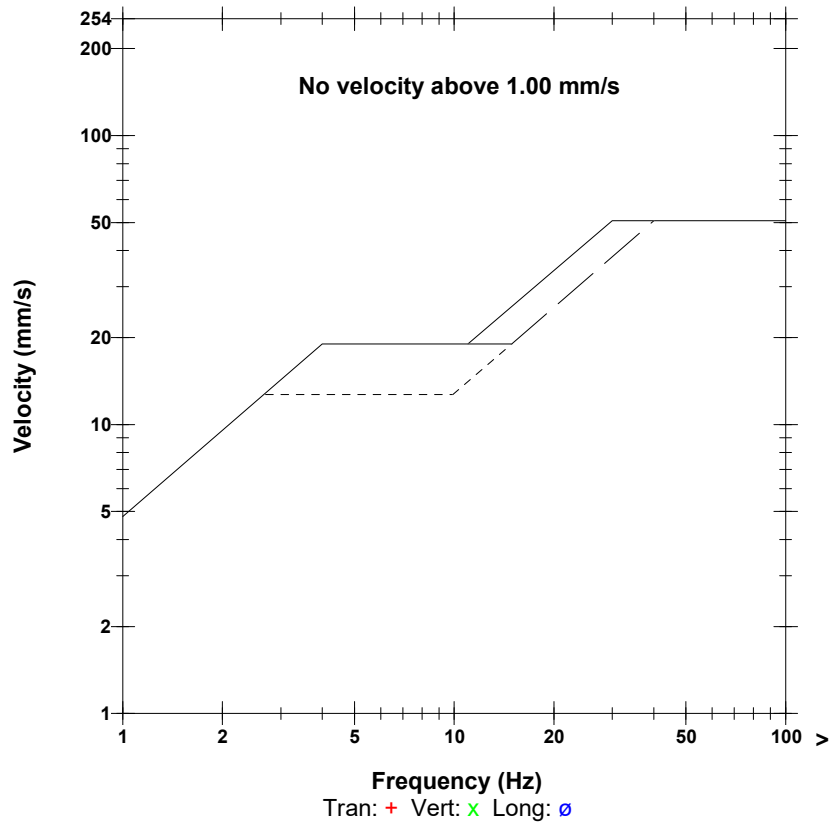
Notes: ■ Keerrong Rd additional residence

Microphone Linear Weighting
PSPL <88 dB(L)
ZC Freq 9.1 Hz
Channel Test Passed (Freq = 20.5 Hz Amp = 1461 mv)

	Tran	Vert	Long	
PPV	0.205	0.150	0.386	mm/s
ZC Freq	30	18.3	28	Hz
Time (Rel. to Trig)	0.313	0.910	0.489	sec
Peak Acceleration	0.010	0.008	0.015	g
Peak Displacement	0.001	0.001	0.002	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.3	7.1	Hz
Overswing Ratio	3.3	3.4	3.7	

Peak Vector Sum 0.428 mm/s at 0.490 sec
N/A: Not Applicable

USBM RI8507 And OSMRE



Time Scale: 0.20 sec/div **Amplitude Scale:** Geo: 2.000 mm/s/div Mic: 1.000 pa.(L)/div
Trigger = ▶ ◀

Sensor Check

Date/Time Long at 12:07:59 March 16, 2023
Trigger Source Geo: 0.500 mm/s, Mic: 110.0 dB(L)
Range Geo: 254.0 mm/s
Record Time 3.0 sec at 2048 sps
Operator/Setup: Operator/Default Micromate DIN.mmb

Serial Number UM10341 V 10-90GC Micromate DIN
Battery Level 3.8 Volts
Unit Calibration June 2, 2022 by Saros Int
File Name UM10341_20230316120759.IDFW

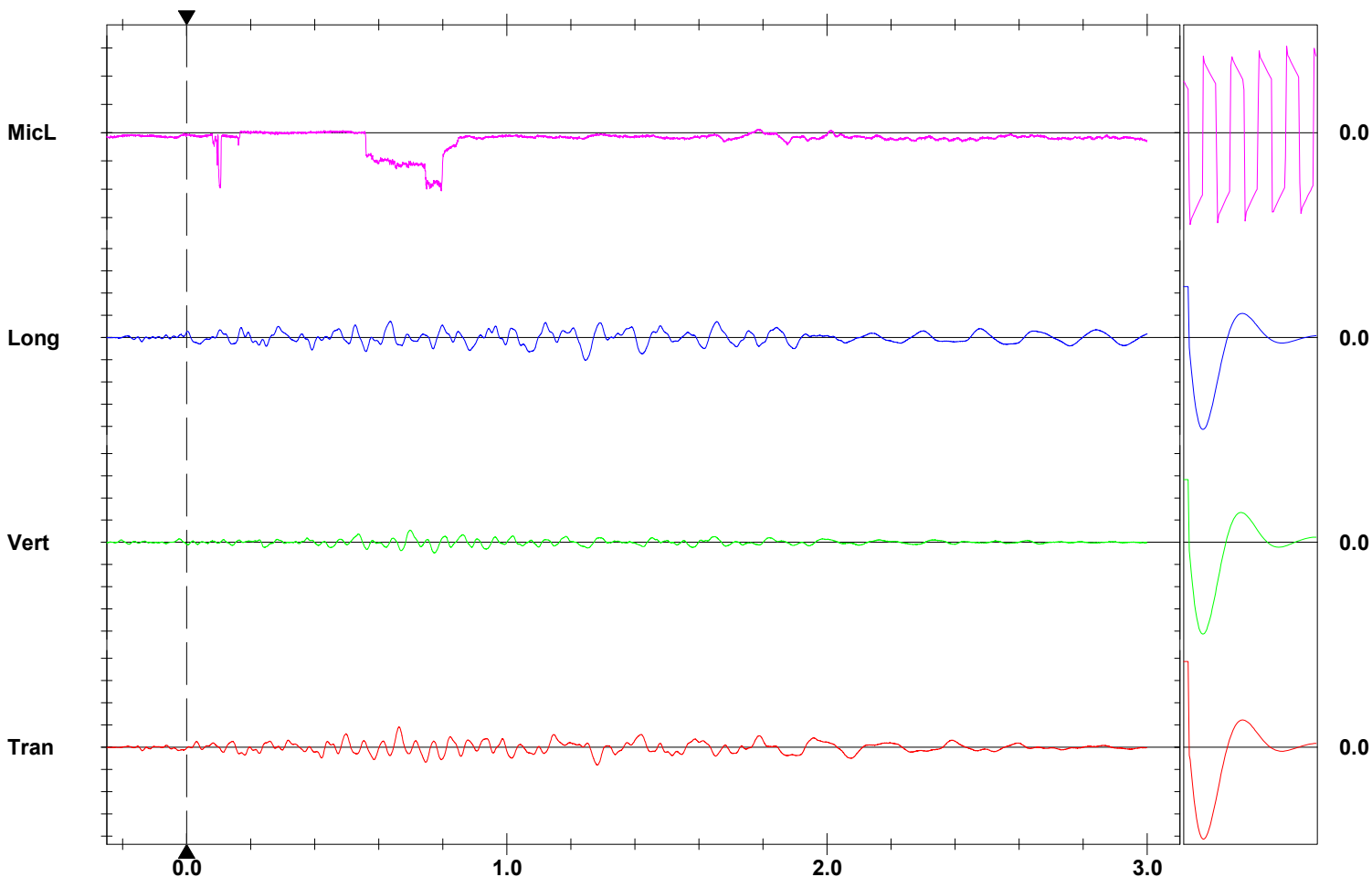
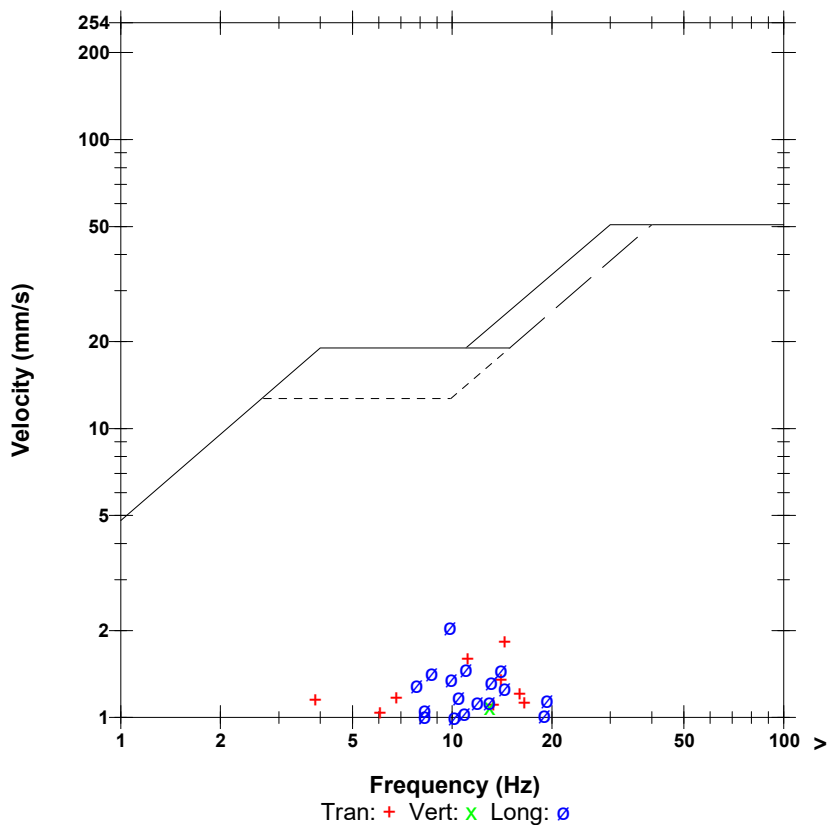
Notes: MP#2

Microphone Linear Weighting
PSPL 100.3 dB(L) at 0.796 sec
ZC Freq <1.0 Hz
Channel Test Passed (Freq = 20.5 Hz Amp = 1493 mv)

	Tran	Vert	Long	
PPV	1.821	1.088	2.057	mm/s
ZC Freq	14.4	13.0	9.8	Hz
Time (Rel. to Trig)	0.663	0.698	1.248	sec
Peak Acceleration	0.021	0.025	0.021	g
Peak Displacement	0.025	0.012	0.031	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.5	7.3	Hz
Overswing Ratio	3.3	3.0	3.8	

Peak Vector Sum 2.133 mm/s at 1.248 sec

USBM RI8507 And OSMRE



Time Scale: 0.20 sec/div **Amplitude Scale:** Geo: 2.000 mm/s/div Mic: 1.000 pa.(L)/div
Trigger =

Sensor Check

Nimbin Rd

Event Report: Monitor Log - # BE22005-Compliance

[illegible]

Event Report: Monitor Log - # BE22005-Compliance

Start Time	End Time	Status
Mar 16 /23 11:54:50	Mar 16 /23 11:54:51	Event recorded. Trigger Level MicL: 6.00 pa.(L)
Mar 16 /23 11:55:04	Mar 16 /23 11:55:05	Event recorded. Trigger Level MicL: 6.00 pa.(L)
Mar 16 /23 11:55:18	Mar 16 /23 11:55:19	Event recorded. Trigger Level MicL: 6.00 pa.(L)
Mar 16 /23 11:55:32	Mar 16 /23 11:55:33	Event recorded. Trigger Level MicL: 6.00 pa.(L)
Mar 16 /23 11:55:46	Mar 16 /23 11:55:47	Event recorded. Trigger Level MicL: 6.00 pa.(L)
Mar 16 /23 11:56:00	Mar 16 /23 11:56:01	Event recorded. Trigger Level MicL: 6.00 pa.(L)
Mar 16 /23 11:56:14	Mar 16 /23 11:56:15	Event recorded. Trigger Level MicL: 6.00 pa.(L)
Mar 16 /23 11:56:28	Mar 16 /23 11:56:29	Event recorded. Trigger Level MicL: 6.00 pa.(L)
Mar 16 /23 11:56:42	Mar 16 /23 11:56:43	Event recorded. Trigger Level MicL: 6.00 pa.(L)
Mar 16 /23 11:56:56	Mar 16 /23 11:56:57	Event recorded. Trigger Level MicL: 6.00 pa.(L)
Mar 16 /23 11:57:10	Mar 16 /23 11:57:11	Event recorded. Trigger Level MicL: 6.00 pa.(L)
Mar 16 /23 11:57:24	Mar 16 /23 11:57:25	Event recorded. Trigger Level MicL: 6.00 pa.(L)
Mar 16 /23 11:57:38	Mar 16 /23 11:57:39	Event recorded. Trigger Level MicL: 6.00 pa.(L)
Mar 16 /23 11:57:52	Mar 16 /23 11:57:53	Event recorded. Trigger Level MicL: 6.00 pa.(L)
Mar 16 /23 11:58:06	Mar 16 /23 11:58:07	Event recorded. Trigger Level MicL: 6.00 pa.(L)
Mar 16 /23 11:58:20	Mar 16 /23 11:58:21	Event recorded. Trigger Level MicL: 6.00 pa.(L)
Mar 16 /23 11:58:34	Mar 16 /23 11:58:35	Event recorded. Trigger Level MicL: 6.00 pa.(L)
Mar 16 /23 11:58:48	Mar 16 /23 11:58:49	Event recorded. Trigger Level MicL: 6.00 pa.(L)
Mar 16 /23 11:59:02	Mar 16 /23 11:59:03	Event recorded. Trigger Level MicL: 6.00 pa.(L)
Mar 16 /23 11:59:16	Mar 16 /23 11:59:17	Event recorded. Trigger Level MicL: 6.00 pa.(L)
Mar 16 /23 11:59:30	Mar 16 /23 11:59:31	Event recorded. Trigger Level MicL: 6.00 pa.(L)
Mar 16 /23 11:59:44	Mar 16 /23 11:59:45	Event recorded. Trigger Level MicL: 6.00 pa.(L)
Mar 16 /23 11:59:58	Mar 16 /23 11:59:59	Event recorded. Trigger Level MicL: 6.00 pa.(L)
Mar 16 /23 12:00:12	Mar 16 /23 12:00:13	Event recorded. Trigger Level MicL: 6.00 pa.(L)
Mar 16 /23 12:00:26	Mar 16 /23 12:00:27	Event recorded. Trigger Level MicL: 6.00 pa.(L)
Mar 16 /23 12:00:40	Mar 16 /23 12:00:41	Event recorded. Trigger Level MicL: 6.00 pa.(L)
Mar 16 /23 12:00:54	Mar 16 /23 12:00:55	Event recorded. Trigger Level MicL: 6.00 pa.(L)
Mar 16 /23 12:01:08	Mar 16 /23 12:01:09	Event recorded. Trigger Level MicL: 6.00 pa.(L)
Mar 16 /23 12:01:22	Mar 16 /23 12:01:23	Event recorded. Trigger Level MicL: 6.00 pa.(L)
Mar 16 /23 12:01:36	Mar 16 /23 12:29:45	No events recorded. (Keyboard Exit) Geo: 0.510 mm/s Mic: 6.00 pa.(L)

Date/Time Long at 11:04:27 March 16, 2023
Trigger Source Geo: 0.510 mm/s, Mic: 110.0 dB(L)
Range Geo: 254.0 mm/s
Record Time 3.0 sec at 1024 sps

Serial Number BA17309 V 10.72-8.17 BlastMate III
Battery Level 6.4 Volts
Unit Calibration January 19, 2023 by Saros Int.
File Name __TEMP.EVT

Notes: MP#4

RON SOUTHON P/L
 General:

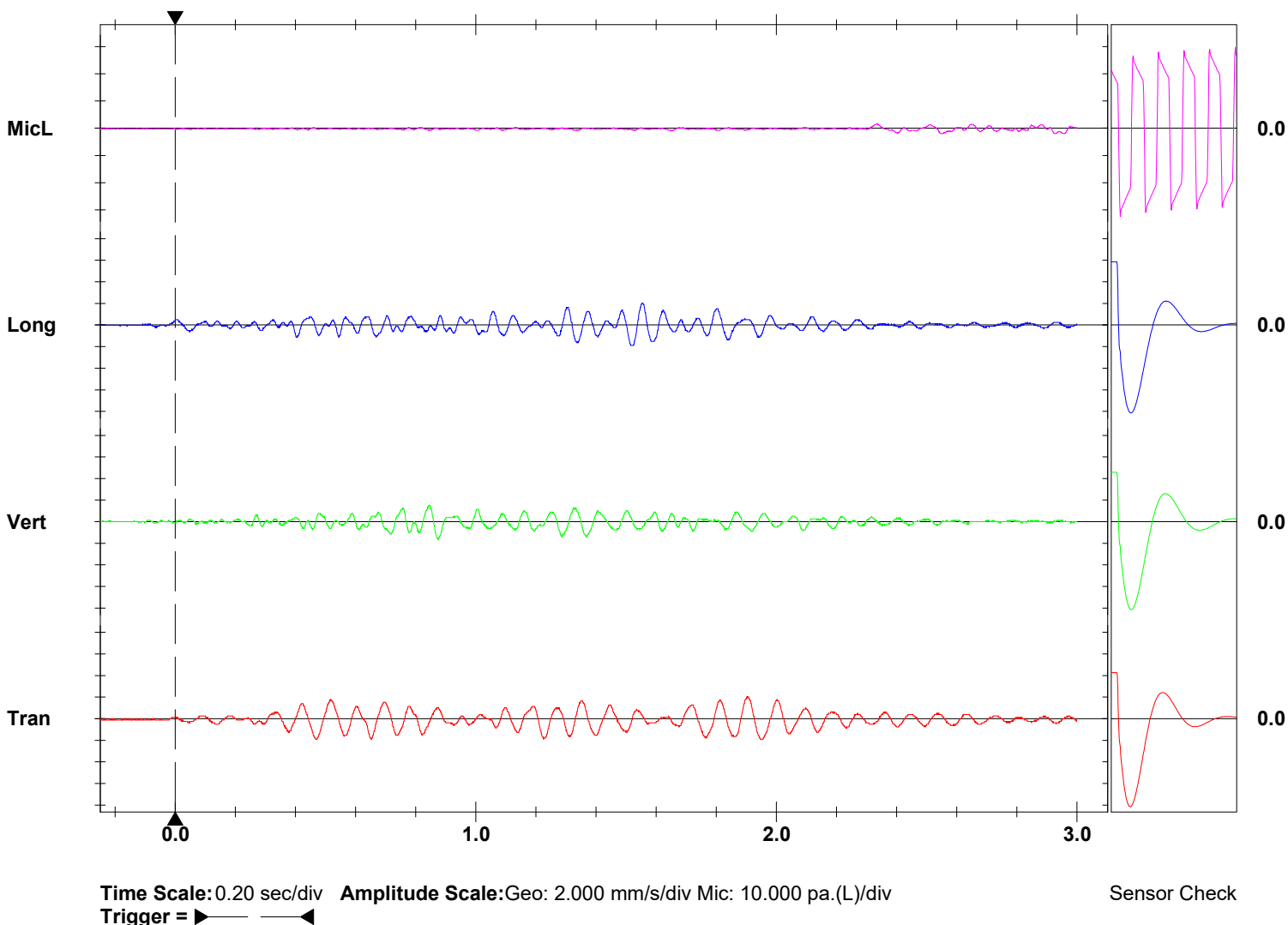
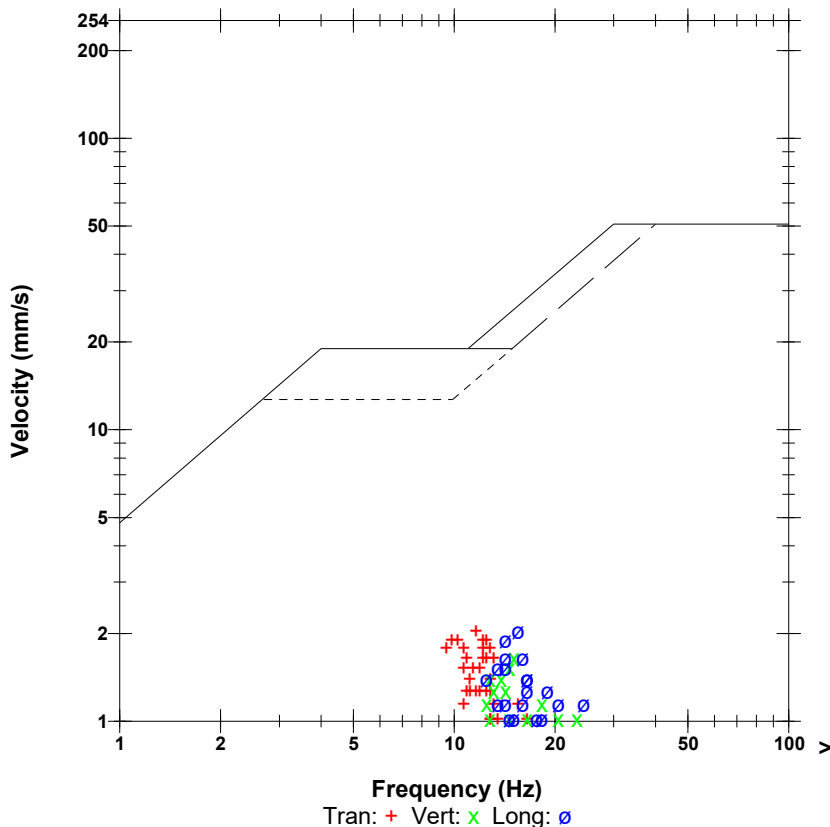
Extended Notes

Microphone Linear Weighting
PSPL 100.0 dB(L) at 2.548 sec
ZC Freq 8.8 Hz
Channel Test Passed (Freq = 20.1 Hz Amp = 426 mv)

	Tran	Vert	Long	
PPV	2.032	1.651	2.032	mm/s
ZC Freq	12	15	16	Hz
Time (Rel. to Trig)	1.901	0.873	1.552	sec
Peak Acceleration	0.027	0.027	0.040	g
Peak Displacement	0.033	0.017	0.023	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.9	7.5	7.4	Hz
Overswing Ratio	3.4	3.2	3.7	

Peak Vector Sum 2.261 mm/s at 1.306 sec

USBM RI8507 And OSMRE



Date/Time Long at 10:58:31 April 4, 2023
Trigger Source Geo: 0.500 mm/s
Range Geo: 254.0 mm/s
Record Time 3.0 sec at 2048 sps
Operator/Setup: Operator/Default Micromate DIN.MMB

Serial Number UM10341 V 10-90GC Micromate DIN
Battery Level 3.8 Volts
Unit Calibration June 2, 2022 by Saros Int
File Name UM10341_20230404105831.IDFW

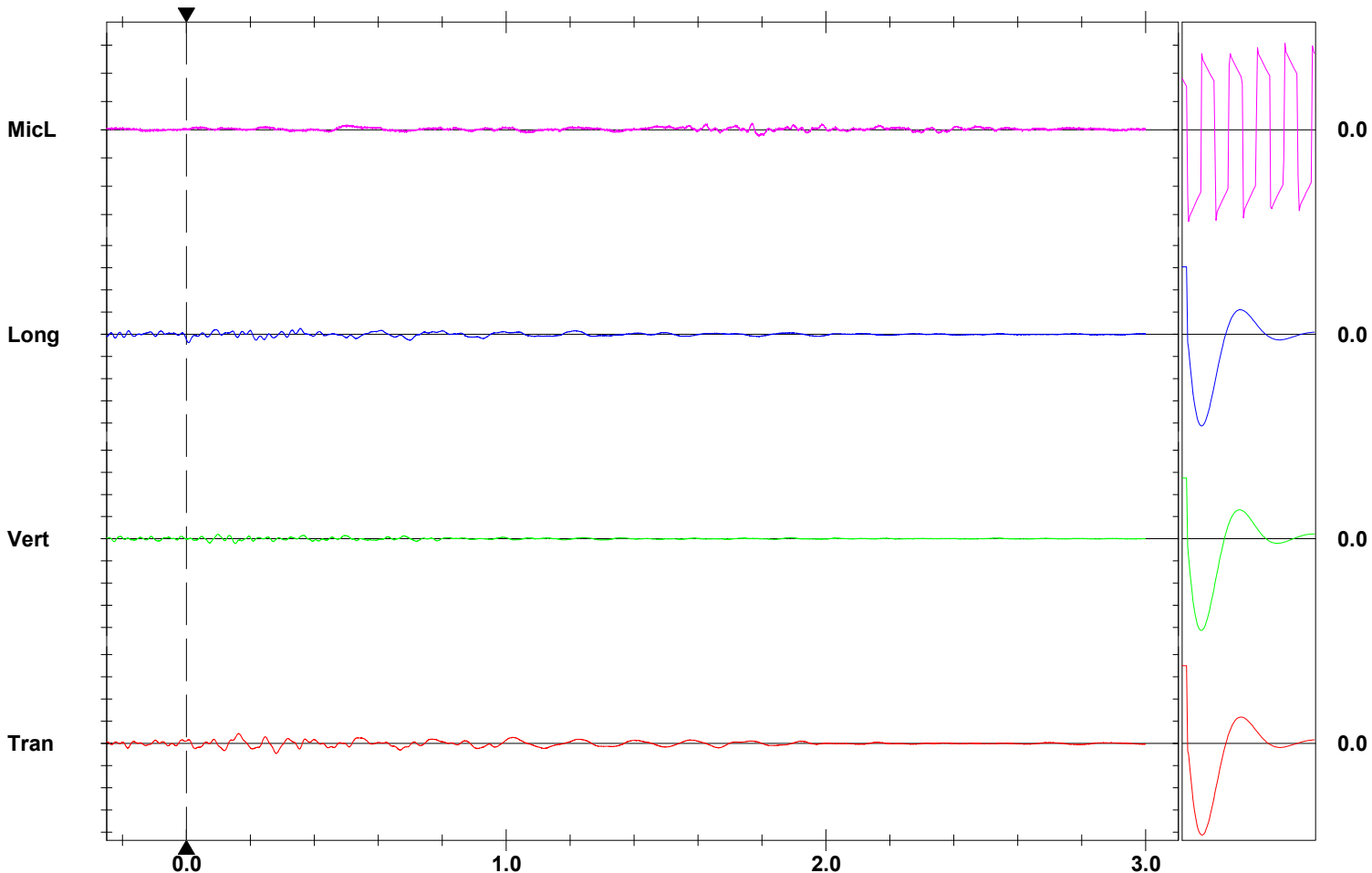
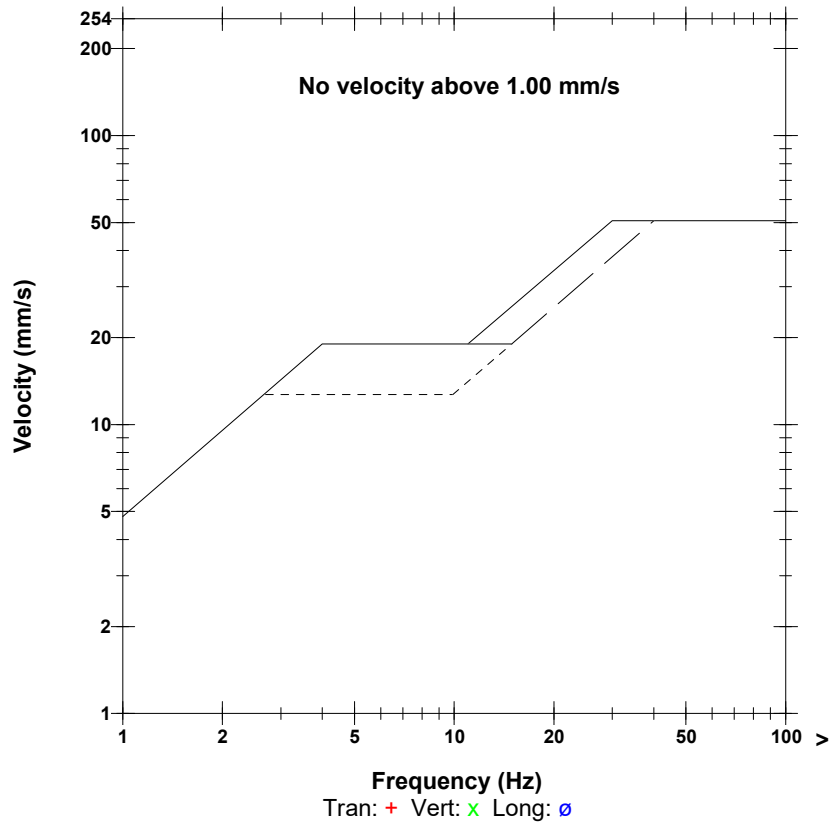
Notes: MP#2

Microphone Linear Weighting
PSPL <88 dB(L)
ZC Freq 31 Hz
Channel Test Passed (Freq = 20.5 Hz Amp = 1620 mv)

	Tran	Vert	Long	
PPV	0.914	0.449	0.749	mm/s
ZC Freq	8.6	12.3	9.7	Hz
Time (Rel. to Trig)	0.163	0.152	0.006	sec
Peak Acceleration	0.015	0.015	0.013	g
Peak Displacement	0.013	0.004	0.011	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.5	7.3	Hz
Overswing Ratio	3.4	3.1	3.7	

Peak Vector Sum 0.941 mm/s at 0.163 sec
N/A: Not Applicable

USBM RI8507 And OSMRE



Date/Time Long at 10:58:19 April 4, 2023
Trigger Source Geo: 0.127 mm/s
Range Geo: 254.0 mm/s
Record Time 3.0 sec at 2048 sps
Operator/Setup: Operator/Default Micromate DIN.MMB

Serial Number UM10342 V 10-90GC Micromate DIN
Battery Level 3.8 Volts
Unit Calibration June 3, 2022 by Saros Int
File Name UM10342_20230404105819.IDFW

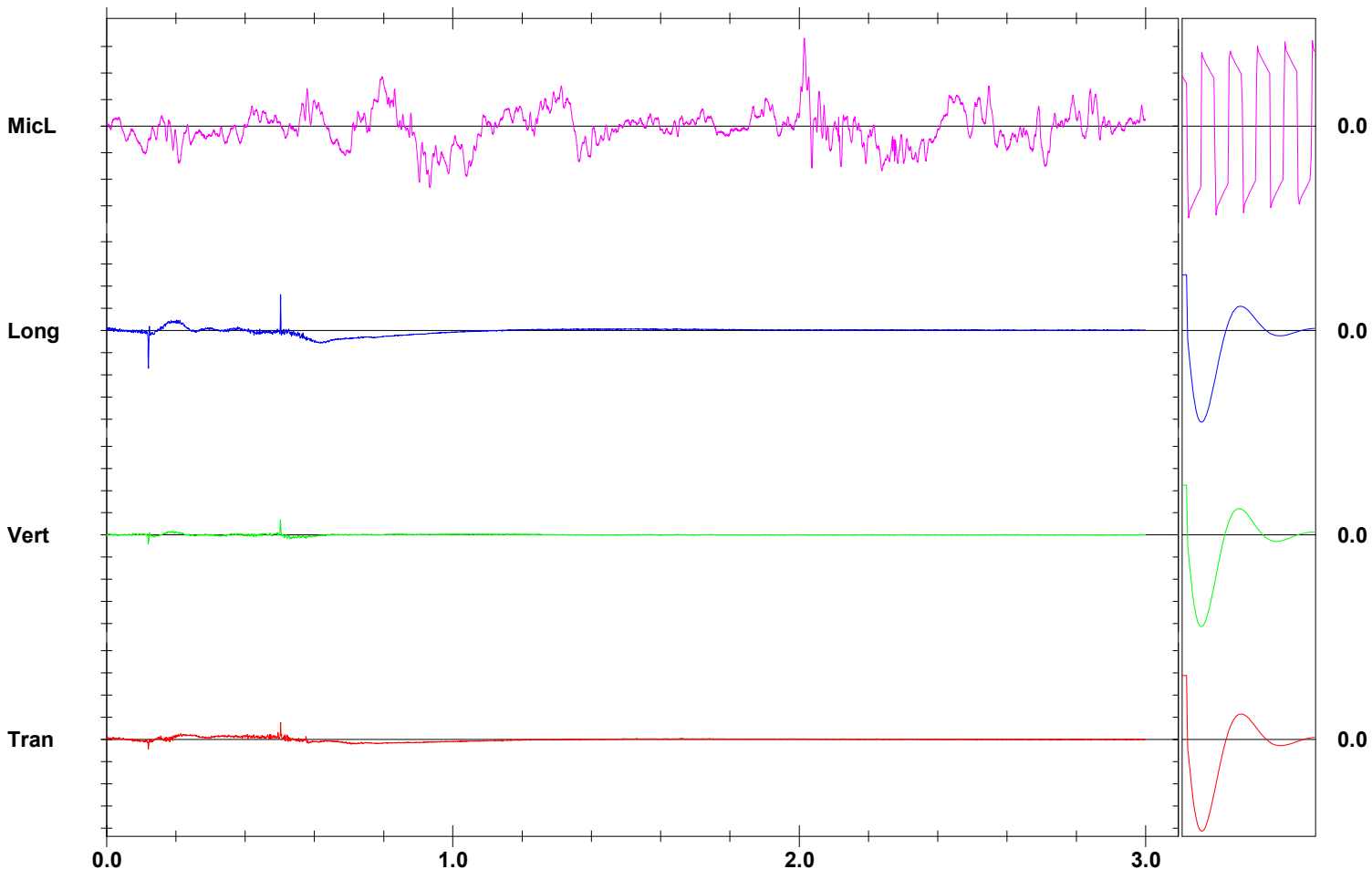
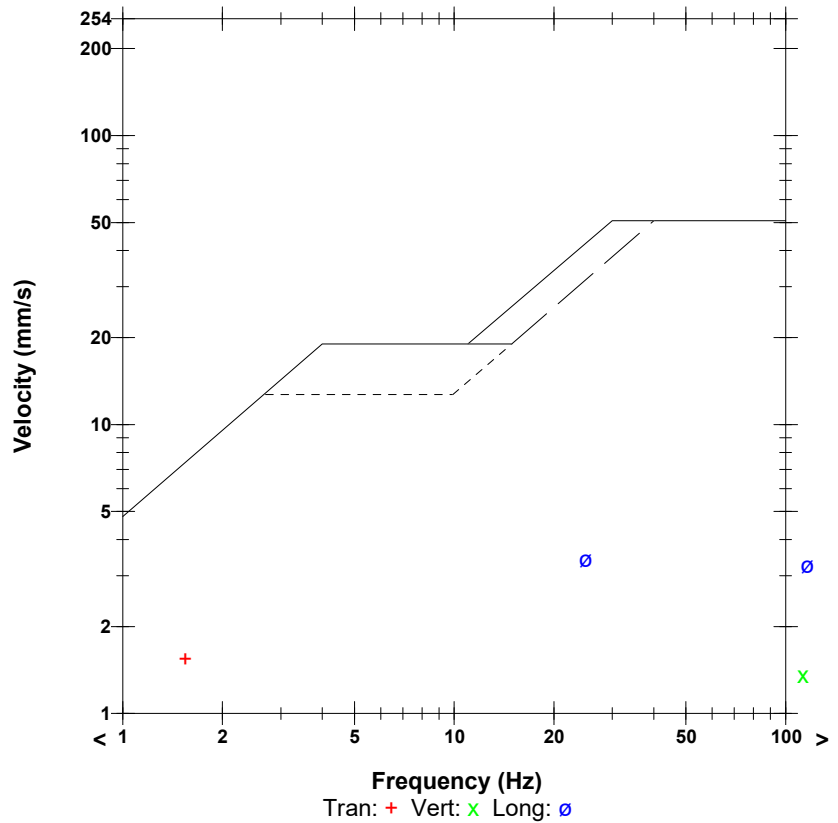
Notes Keerong Rd

Microphone Linear Weighting
PSPL 104.4 dB(L) at 2.015 sec
ZC Freq 10.7 Hz
Channel Test Passed (Freq = 20.5 Hz Amp = 1576 mv)

	Tran	Vert	Long	
PPV	1.545	1.364	3.421	mm/s
ZC Freq	1.5	102	25	Hz
Time (Rel. to Trig)	0.502	0.501	0.121	sec
Peak Acceleration	0.140	0.194	0.341	g
Peak Displacement	0.064	0.008	0.132	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.1	7.3	7.1	Hz
Overswing Ratio	3.5	3.4	3.7	

Peak Vector Sum 3.688 mm/s at 0.502 sec

USBM RI8507 And OSMRE



Time Scale: 0.20 sec/div **Amplitude Scale:** Geo: 2.000 mm/s/div Mic: 1.000 pa.(L)/div

Sensor Check

Date/Time Long at 12:57:38 April 4, 2023
Trigger Source Geo: 0.510 mm/s
Range Geo: 254.0 mm/s
Record Time 3.0 sec at 1024 sps

Serial Number BA17309 V 10.72-8.17 BlastMate III
Battery Level 6.2 Volts
Unit Calibration January 19, 2023 by Saros Int.
File Name __TEMP.EVT

Notes: MP#4

RON SOUTHON P/L
 General:

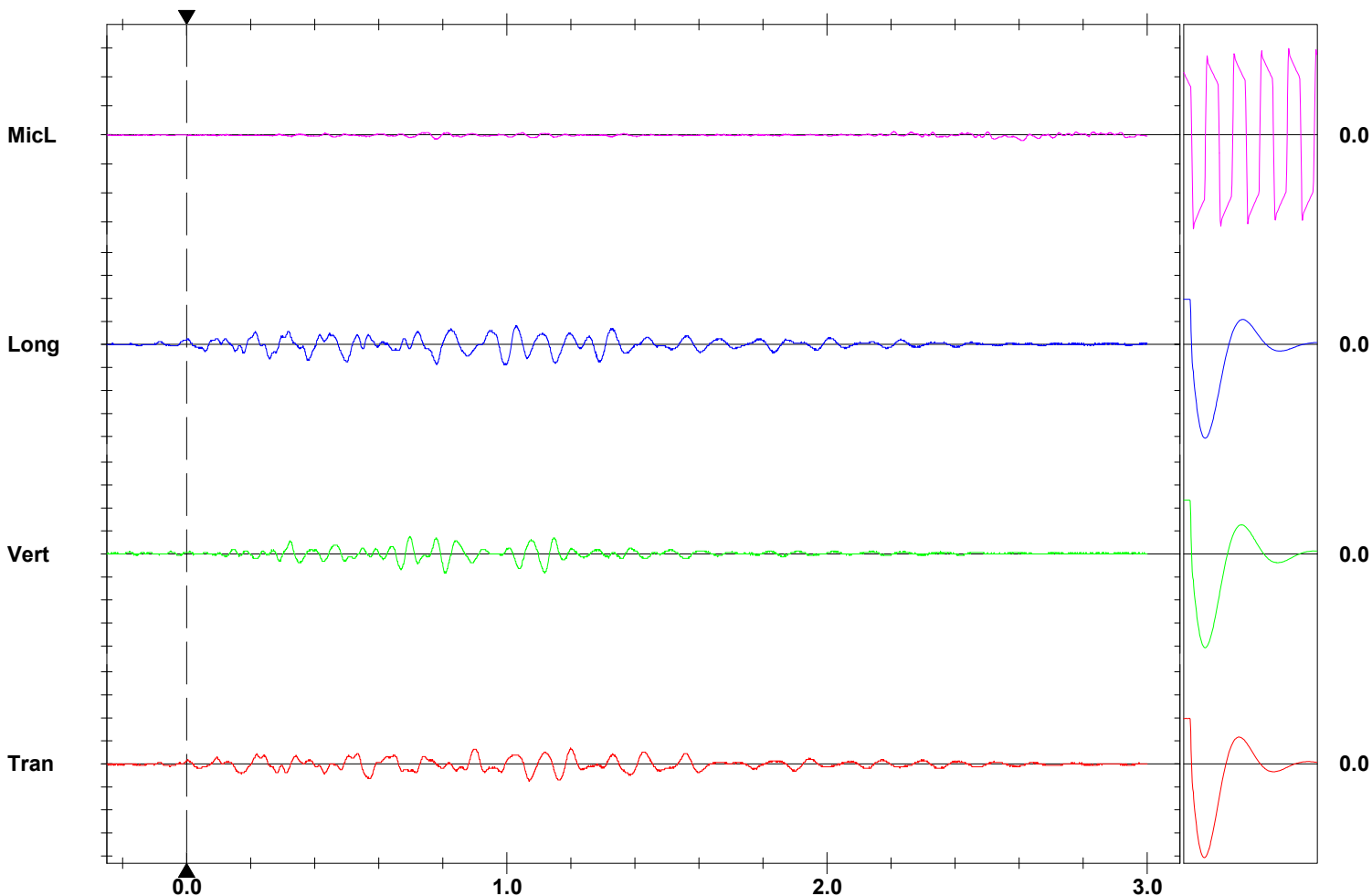
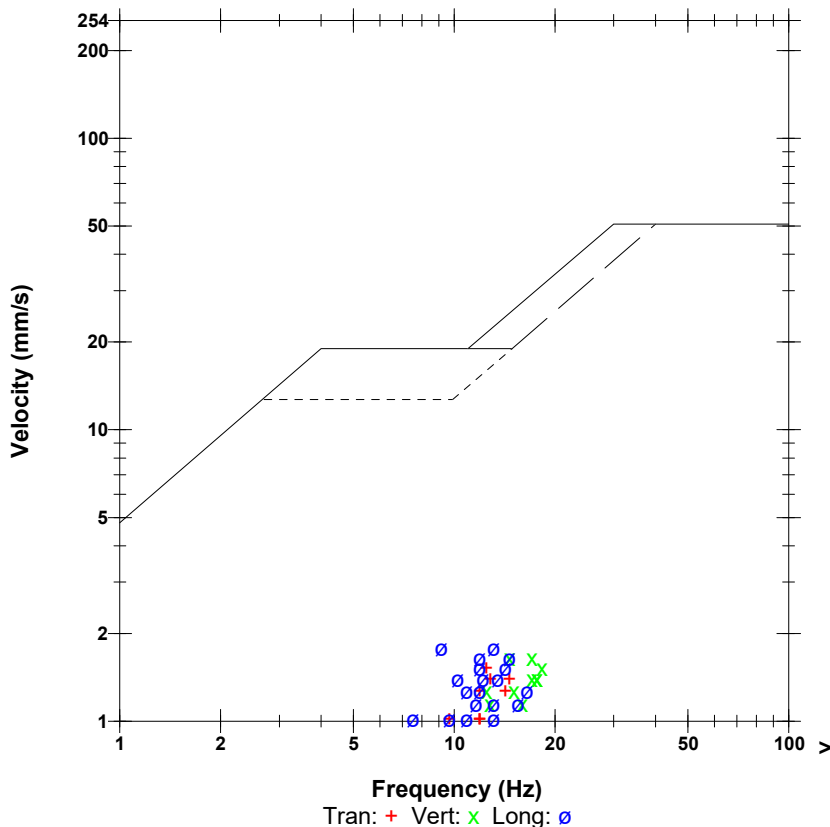
Extended Notes

Microphone Linear Weighting
PSPL 100.0 dB(L) at 2.604 sec
ZC Freq 7.5 Hz
Channel Test Passed (Freq = 20.1 Hz Amp = 532 mv)

	Tran	Vert	Long	
PPV	1.524	1.651	1.778	mm/s
ZC Freq	12	17	9.1	Hz
Time (Rel. to Trig)	1.069	0.805	0.781	sec
Peak Acceleration	0.027	0.027	0.040	g
Peak Displacement	0.019	0.018	0.024	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.8	7.5	7.2	Hz
Overswing Ratio	3.5	3.2	3.8	

Peak Vector Sum 2.265 mm/s at 1.151 sec

USBM RI8507 And OSMRE



Time Scale: 0.20 sec/div **Amplitude Scale:** Geo: 2.000 mm/s/div Mic: 10.000 pa.(L)/div
Trigger =

Sensor Check


Results Summary Report



Customer	Blakebrook Quarry	
Date of blast	04-04-2023	
Time of blast	11:58am	
Blast number	04	
Monitor Location	Location 2 [REDACTED] Keerrong Rd Blakebrook)	
Monitor name/ model details:	Micromate MONITOR 1	
Monitor Serial no	UM10341	
Time of recording/comments	Daylight saving adj corrections both auto & manual mean an incorrect time of 10.:58m was indicated on the monitor.	
Calibration date	02-06-2022	
Instrumentation used to measure the airblast overpressure and ground vibration levels meets the requirements of Australian Standard AS 2187.2-2006.		Y
Airblast overpressure result (dB)	88	
Ground vibration result (PPV)	0.914mm/s, 0.449, 0.749mm/s (PVS 0.941mm/s)	
Licence limits	Airblast overpressure - 115 dB Ground vibration (PPV) - 5mm/s	
Comments		

Monitor Location	Location 8 [REDACTED] Nimbin Rd Blakebrook)	
Monitor name/ model details:	Minimate Plus MONITOR 3	
Monitor Serial no	BE22005	
Time of recording/comments	Set on old day light saving time	
Calibration date	17-02-2023	
Instrumentation used to measure the airblast overpressure and ground vibration levels meets the requirements of Australian Standard AS 2187.2-2006.		Y
Airblast overpressure result (dB)	No Trigger	
Ground vibration result (PPV)	No Trigger	
EPL limits	Airblast overpressure - 115 dB Ground vibration (PPV) - 5mm/s	
Comments		

Monitor Location	Location 4 [REDACTED] Booerie Creek Road Booerie Creek)	
Monitor name/ model details:	Blastmate III MONITOR 4	
Monitor Serial no	BA17309	
Time of recording/comments	Time not adjusted back for end of daylight saving. Monitor showed incorrect time of 12:58pm	
Calibration date	19-01-2023	
Instrumentation used to measure the airblast overpressure and ground vibration levels meets the requirements of Australian Standard AS 2187.2-2006.		Y
Airblast overpressure result (dB)	100dB(L)	

Ground vibration result (PPV)	1.524, 1.651, 1.778mm/s (PVS 2.265mm/s)
EPL limits	Airblast overpressure - 115 dB Ground vibration (PPV) - 5mm/s
Comments	

Monitor Location	Additional residence –  Keerrong Rd	
Monitor name/ model details:	Micromate	MONITOR 2
Monitor Serial no	UM10342	
Time of recording/comments	Daylight saving adj corrections both auto & manual mean an incorrect time of 10.:58m was indicated on the monitor.	
Calibration date	03-06-2022	
Instrumentation used to measure the airblast overpressure and ground vibration levels meets the requirements of Australian Standard AS 2187.2-2006.		Y
Airblast overpressure result (dB)	104.4 dB(L)	
Ground vibration result (PPV)	1.545, 1.364, 3.421mm/s (PVS 3.688mm/s)	
EPL limits	Airblast overpressure - 115 dB Ground vibration (PPV) - 5mm/s	
Comments		

Name:		
Signature:		
Position:	Owner/Director	Date: 04-04-2023

Printed: April 4, 2023 (V 10.72 - 10.74) Event Report: Monitor Log - # BE22005-Compliance

Start Time	End Time	Status
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-----	-----	SERIAL NUMBER: BE22005
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Apr 4 /23 12:20:09		Start Monitoring Trigger Level: Geo: 0.510 mm/s
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Apr 4 /23 13:18:19	Apr 4 /23 13:18:20	Event recorded. (Keyboard Exit) Trigger Level Tran: 0.510 mm/s
--------------------	--------------------	--

Date/Time Tran at 11:11:30 May 2, 2023
Trigger Source Geo: 0.500 mm/s
Range Geo: 254.0 mm/s
Record Time 3.0 sec at 2048 sps
Operator/Setup: Operator/Default Micromate DIN.MMB

Serial Number UM10341 V 10-90GC Micromate DIN
Battery Level 3.8 Volts
Unit Calibration June 2, 2022 by Saros Int
File Name UM10341_20230502111130.IDFW

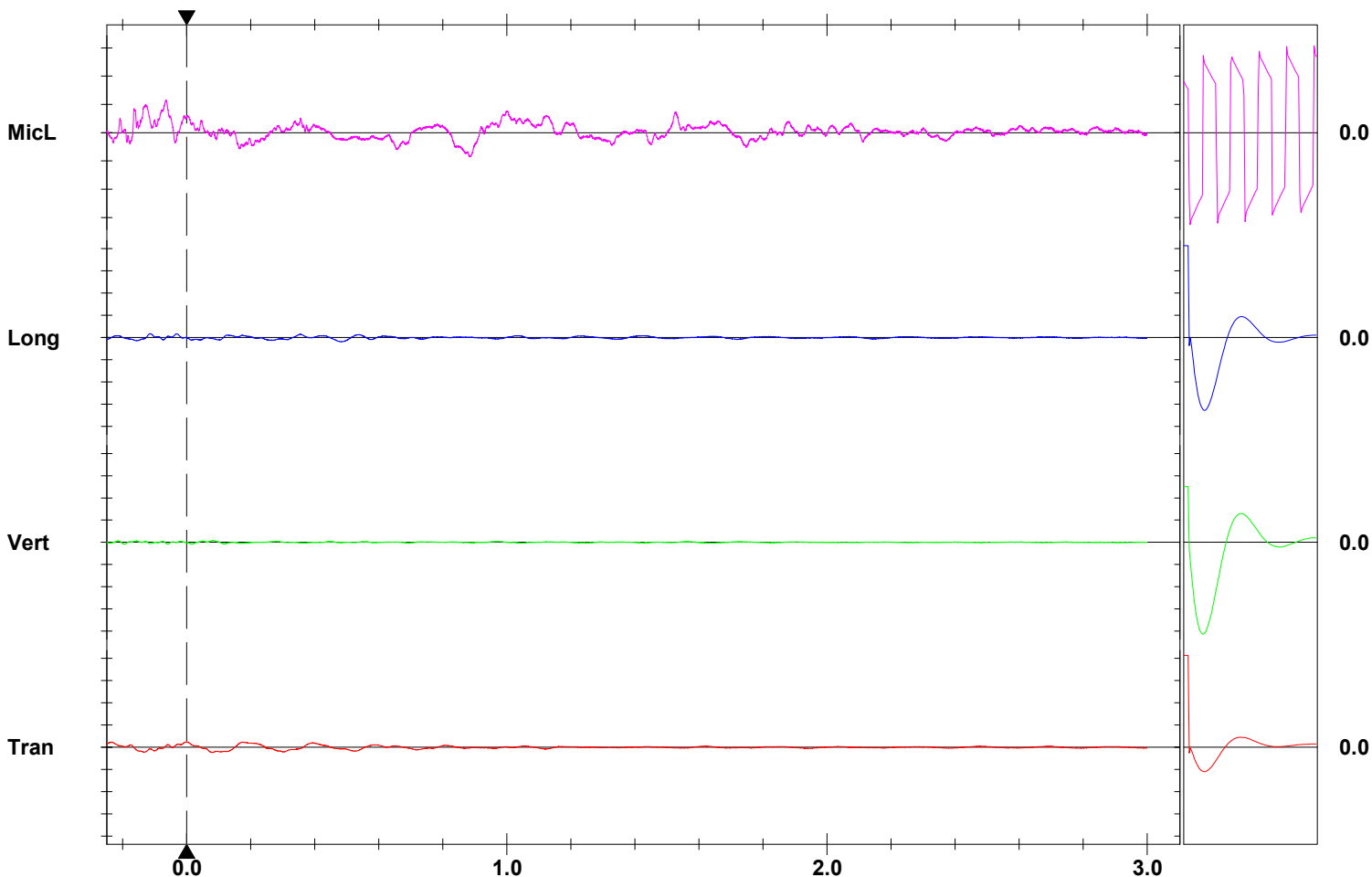
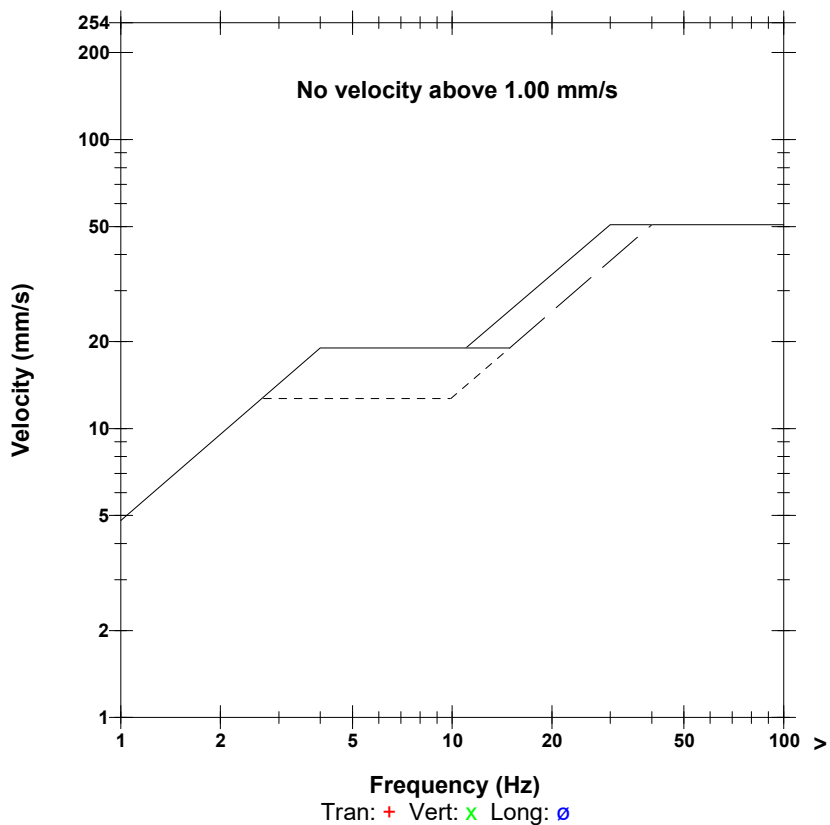
Notes: MP #2

Microphone Linear Weighting
PSPL 95.3 dB(L) at -0.066 sec
ZC Freq 3.9 Hz
Channel Test Passed (Freq = 20.5 Hz Amp = 1631 mv)

	Tran	Vert	Long	
PPV	0.497	0.181	0.386	mm/s
ZC Freq	5.9	26	7.6	Hz
Time (Rel. to Trig)	0.000	-0.196	0.480	sec
Peak Acceleration	0.012	0.010	0.012	g
Peak Displacement	0.016	0.002	0.008	mm
Sensor Check	Check	Passed	Check	
Frequency	7.7	7.5	7.3	Hz
Overswing Ratio	2310.0	3.2	3.4	

Peak Vector Sum 0.537 mm/s at 0.173 sec

USBM RI8507 And OSMRE



Date/Time Vert at 11:11:57 May 2, 2023
Trigger Source Geo: 0.510 mm/s
Range Geo: 254.0 mm/s
Record Time 1.0 sec at 1024 sps
Job Number: 1

Serial Number BE22005 V 10.72-8.17 MiniMate Plus
Battery Level 6.3 Volts
Unit Calibration February 17, 2023 by Saros Int.
File Name __TEMP.EVT

Notes: MP#8

Location:

Client:

User Name:

General:

Extended Notes

Microphone Linear Weighting

PSPL <88 dB(L)

ZC Freq >100 Hz

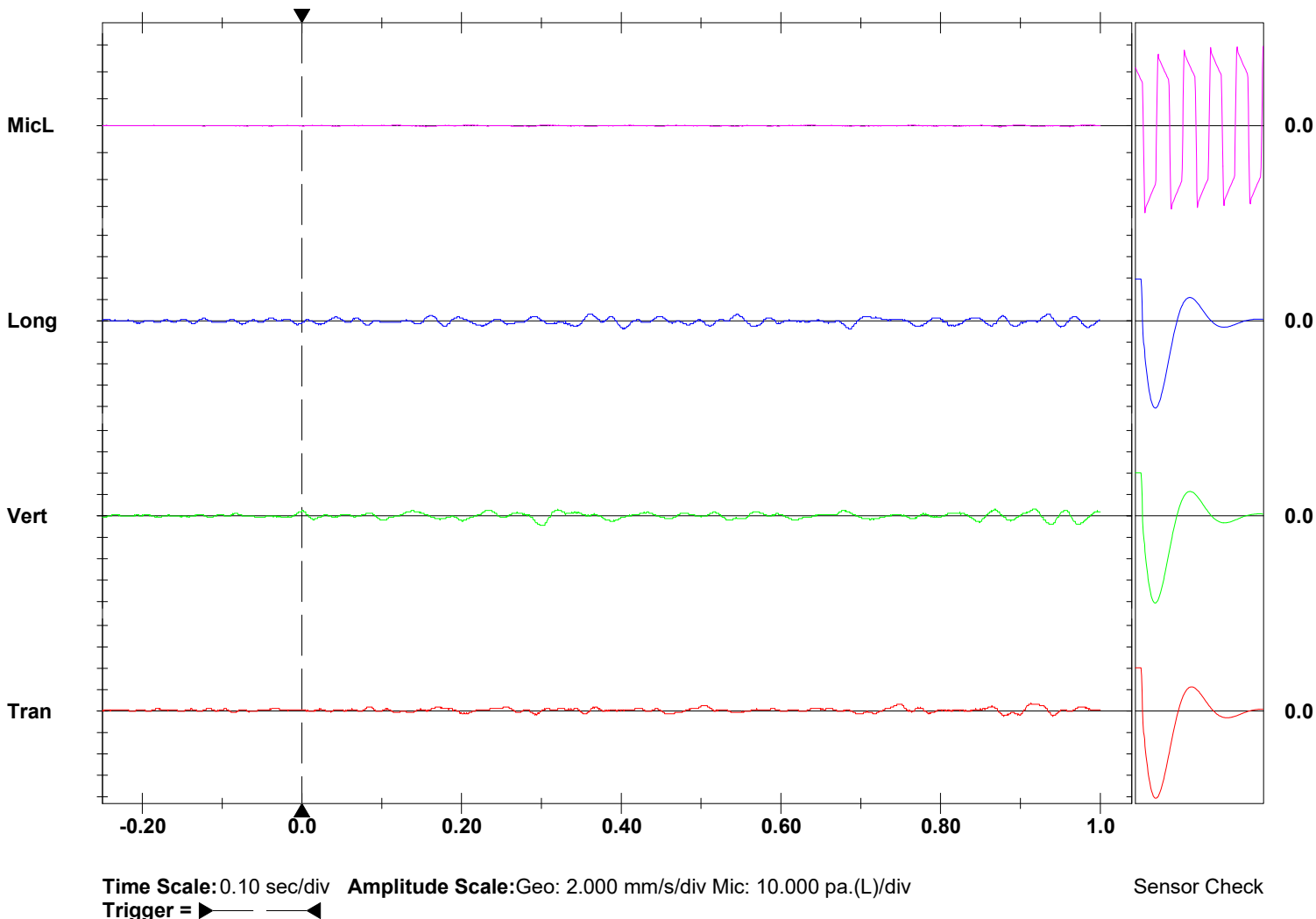
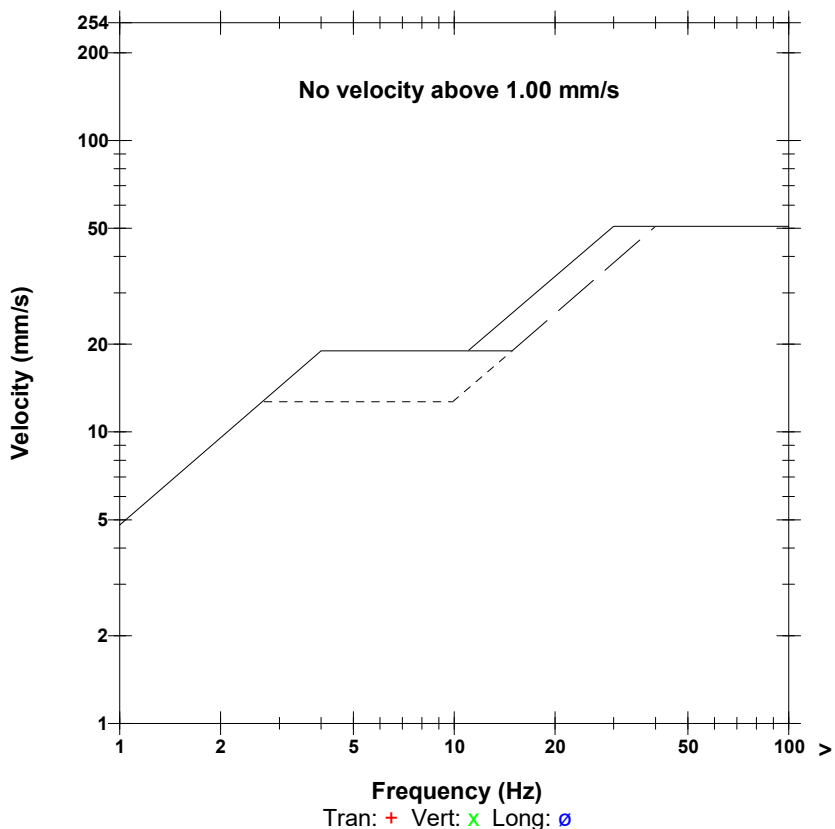
Channel Test Passed (Freq = 19.7 Hz Amp = 598 mv)

	Tran	Vert	Long	
PPV	0.762	0.889	0.762	mm/s
ZC Freq	18	23	28	Hz
Time (Rel. to Trig)	0.913	0.298	0.401	sec
Peak Acceleration	0.013	0.027	0.027	g
Peak Displacement	0.007	0.007	0.005	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.6	7.6	Hz
Overswing Ratio	3.6	3.6	3.8	

Peak Vector Sum 1.000 mm/s at 0.936 sec

N/A: Not Applicable

USBM RI8507 And OSMRE



Date/Time Vert at 11:11:54 May 2, 2023
Trigger Source Geo: 0.510 mm/s
Range Geo: 254.0 mm/s
Record Time 3.0 sec at 1024 sps

Serial Number BA17309 V 10.72-8.17 BlastMate III
Battery Level 6.1 Volts
Unit Calibration January 19, 2023 by Saros Int.
File Name __TEMP.EVT

Notes: MP#4

RON SOUTHON P/L
 General:

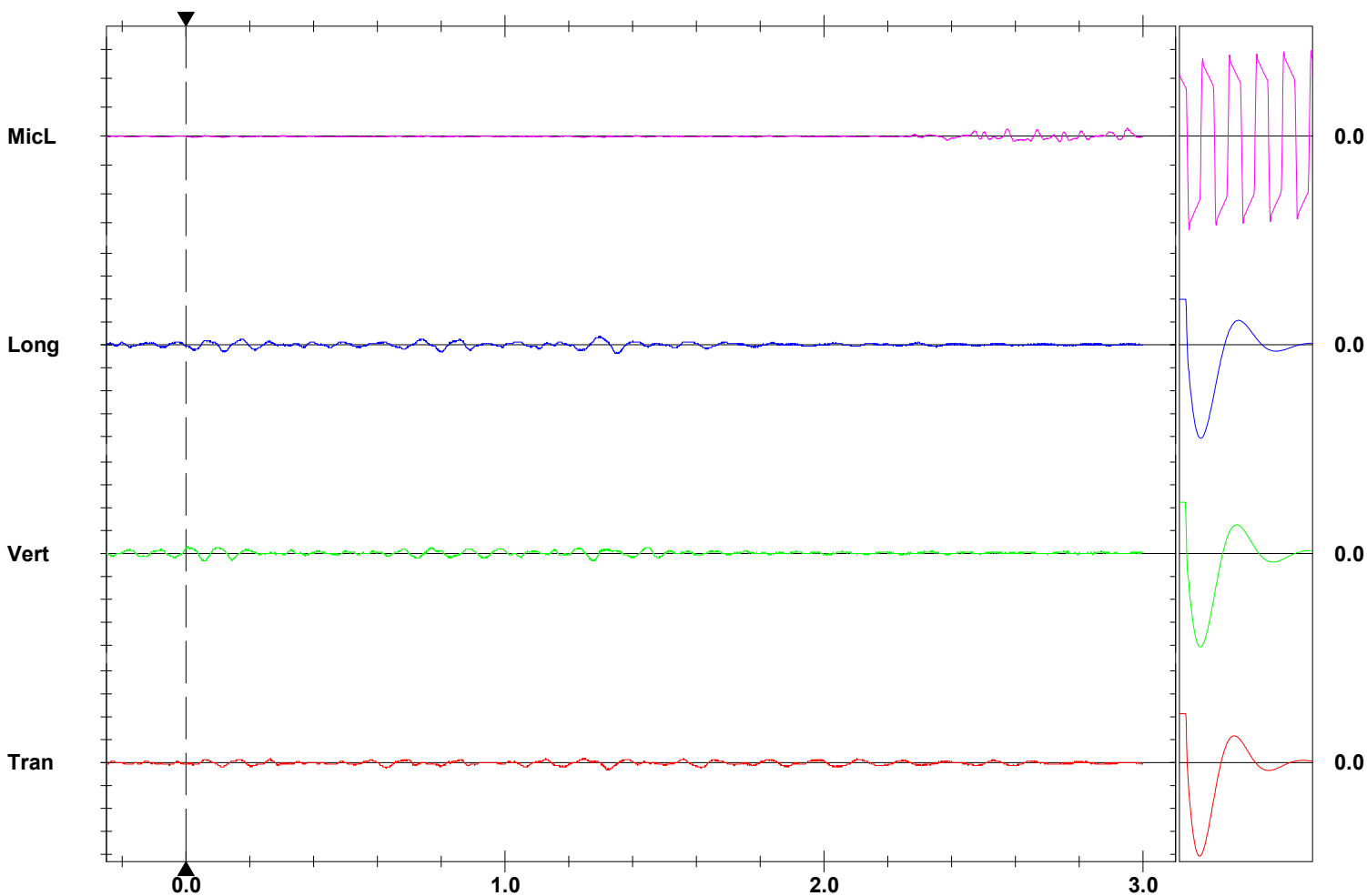
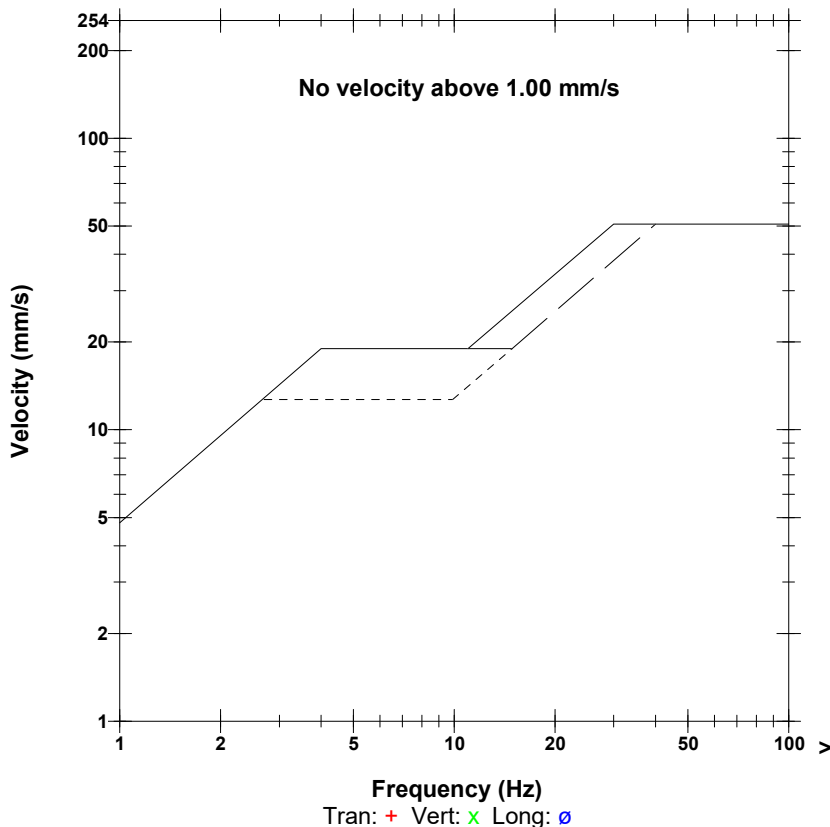
Extended Notes

Microphone Linear Weighting
PSPL 102.8 dB(L) at 2.950 sec
ZC Freq 16 Hz
Channel Test Passed (Freq = 20.1 Hz Amp = 494 mv)

	Tran	Vert	Long	
PPV	0.635	0.635	0.762	mm/s
ZC Freq	12	12	9.3	Hz
Time (Rel. to Trig)	1.317	0.005	1.293	sec
Peak Acceleration	0.027	0.027	0.027	g
Peak Displacement	0.009	0.008	0.013	mm
Sensor Check	Passed	Passed	Passed	
Frequency	8.1	7.6	7.2	Hz
Overswing Ratio	3.5	3.3	3.8	

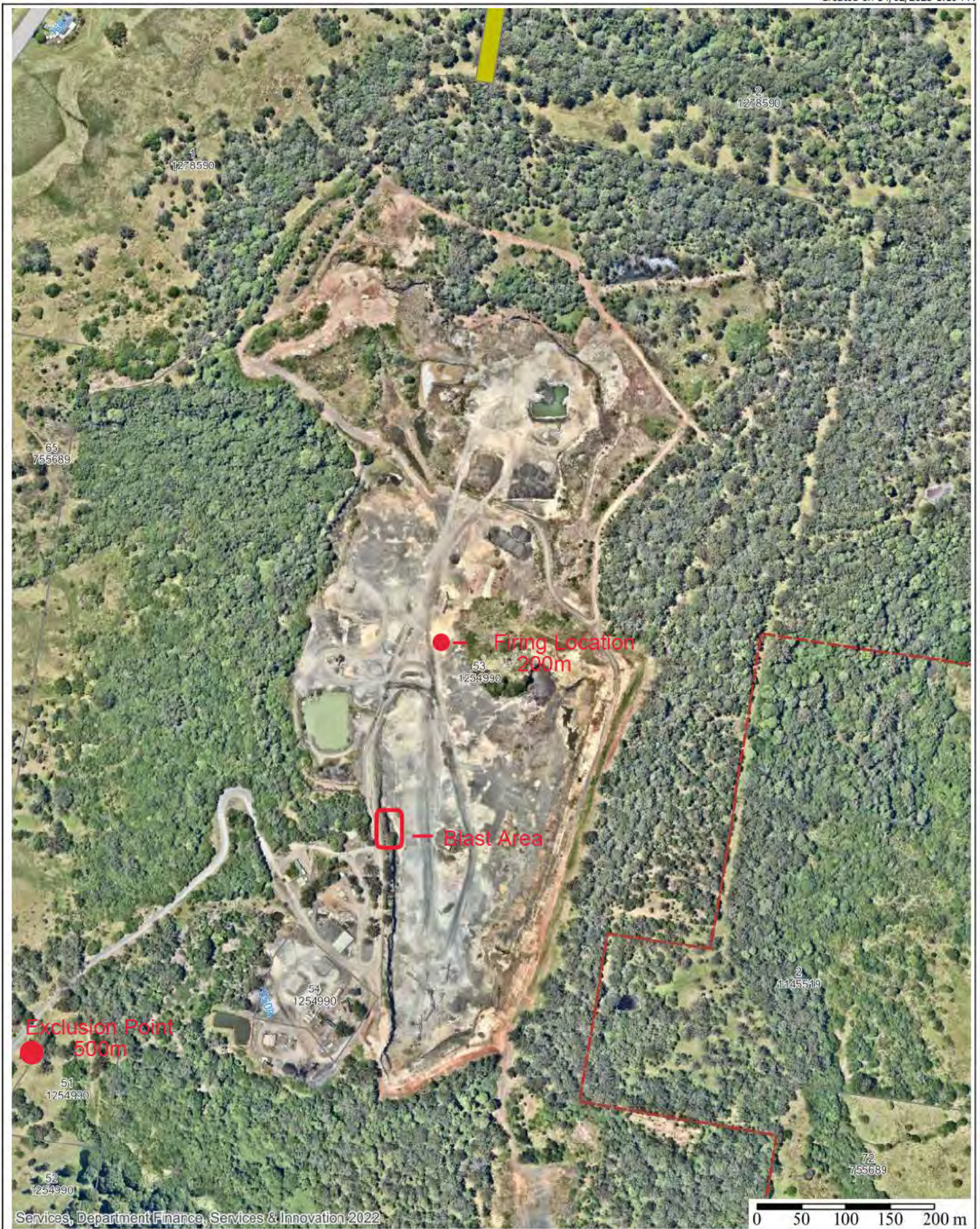
Peak Vector Sum 0.842 mm/s at 1.345 sec

USBM RI8507 And OSMRE



Time Scale: 0.20 sec/div **Amplitude Scale:** Geo: 2.000 mm/s/div Mic: 10.000 pa.(L)/div
Trigger =

Sensor Check



Projection: GDA2020 / MSA zone 56

Date: 14/02/2023 1:19 PM

Results Summary Report

Customer	Blakebrook Quarry		
Date of blast	2/5/23		
Time of blast	11:11am		
Blast number	5		
Monitor Location	Location 2 (Keerrong Rd Blakebrook)		
Monitor name/ model details:	INSTANTEL MICROMATE		
Monitor Serial no	UM 10341 V10-906-C		
Time of recording/comments	11:11am		
Calibration date	JUNE 2 2022		
Instrumentation used to measure the airblast overpressure and ground vibration levels meets the requirements of Australian Standard AS 2187.2-2006.			Y
Airblast overpressure result (dB)	95.3 DBL		
Ground vibration result (PPV)	0.537 mm/sec		
Licence limits	Airblast overpressure - 115 dB Ground vibration (PPV) - 5mm/s		
Comments	WITHIN LIMITS		

Monitor Location	Location 8 (Nimbin Rd Blakebrook)		
Monitor name/ model details:	INSTANTEL MINIMATE PLUS		
Monitor Serial no	BE 22005 V 10-72-8.17		
Time of recording/comments	11:11am		
Calibration date	17/2/23		
Instrumentation used to measure the airblast overpressure and ground vibration levels meets the requirements of Australian Standard AS 2187.2-2006.			Y
Airblast overpressure result (dB)	28.8 DBL		
Ground vibration result (PPV)	1.0 mm/sec		
EPL limits	Airblast overpressure - 115 dB Ground vibration (PPV) - 5mm/s		
Comments	WITHIN LIMITS		

Monitor Location	Location 4 (Boorie Creek Road Boorie Creek)		
Monitor name/ model details:	INSTANTEL BLASTMATE III		
Monitor Serial no	BA 17309 V 10-72-8.17		
Time of recording/comments	11:11am		
Calibration date	19/1/23		
Instrumentation used to measure the airblast overpressure and ground vibration levels meets the requirements of Australian Standard AS 2187.2-2006.			Y
Airblast overpressure result (dB)	102.8 DBL		
Ground vibration result (PPV)	0.842 mm/sec		

EPL limits	Airblast overpressure - 115 dB Ground vibration (PPV) - 5mm/s
Comments	

Monitor Location	Additional residence - [REDACTED] Keerrong Rd	
Monitor name/ model details:	INSTANTEL MINIMATE	
Monitor Serial no	UM10342	
Time of recording/comments	DID NOT TRIGGER AT BLAST TIME 11:11am.	
Calibration date	30/6/22	
Instrumentation used to measure the airblast overpressure and ground vibration levels meets the requirements of Australian Standard AS 2187.2-2006.		(Y)
Airblast overpressure result (dB)	DID NOT TRIGGER	
Ground vibration result (PPV)	DID NOT TRIGGER	
EPL limits	Airblast overpressure - 115 dB Ground vibration (PPV) - 5mm/s	
Comments	DID NOT TRIGGER	

Name:	[REDACTED]	
Signature:	[REDACTED]	
Position:	MANAGER	Date: 2/5/23

No Trigger Report Summary Report (if required)

Customer	Northern Rivers Quarry (Blakebrook Quarry)	
Date of blast	02-05-23	
Blast number	05	
Monitor Location	[REDACTED] Keenrong Rd, Blakebrook	
Monitor name/ model details:	Inteltek Minimate	
Monitor Serial no	UM10342	
Calibration date	03/06/22	
Instrumentation used to measure the airblast overpressure and ground vibration levels meets the requirements of Australian Standard AS 2187.2-2006.	Y / N	
Airblast overpressure result (dB)	Did not trigger at blast time 11.11am	
Ground vibration result (PPV)	Did not trigger	
EPL limits	Airblast overpressure - 115 dB Ground vibration (PPV) - 5mm/s	
Comments	i.e. Monitor was set to record ground vibration above xx mm/s - no event was recorded. This monitor report is compliant with EPL conditions and has been undertaken in accordance with AS 2187.2-2006	

Name:	[REDACTED]
Position:	Manager
Signature:	[REDACTED]
Date:	02-05-23

Printed: May 2, 2023 (V 10.72 - 10.74) Event Report: Monitor Log

Start Time	End Time	Status
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----- SERIAL NUMBER: UM10342

May 2 /23 10:43:33		Start Monitoring Waveform Geo: 0.127 mm/s
May 2 /23 11:34:30	May 2 /23 11:34:32	Event recorded. Trigger Level Long: 0.127 mm/s
May 2 /23 11:34:32	May 2 /23 11:34:32	Event recorded. (Keyboard Exit) Waveform Geo: 0.127 mm/s



Event Report

Date/Time Long at 10:06:11 October 26, 2023
Trigger Source Geo: 0.500 mm/s, Mic: 110.0 dB(L)
Range Geo: 254.0 mm/s
Record Time 3.0 sec at 2048 sps
Operator/Setup: Operator/Default Micromate DIN.MMB

Serial Number UM10341 V 10-90GC Micromate DIN
Battery Level 3.8 Volts
Unit Calibration May 22, 2023 by Saros Int
File Name UM10341_20231026100611.IDFW

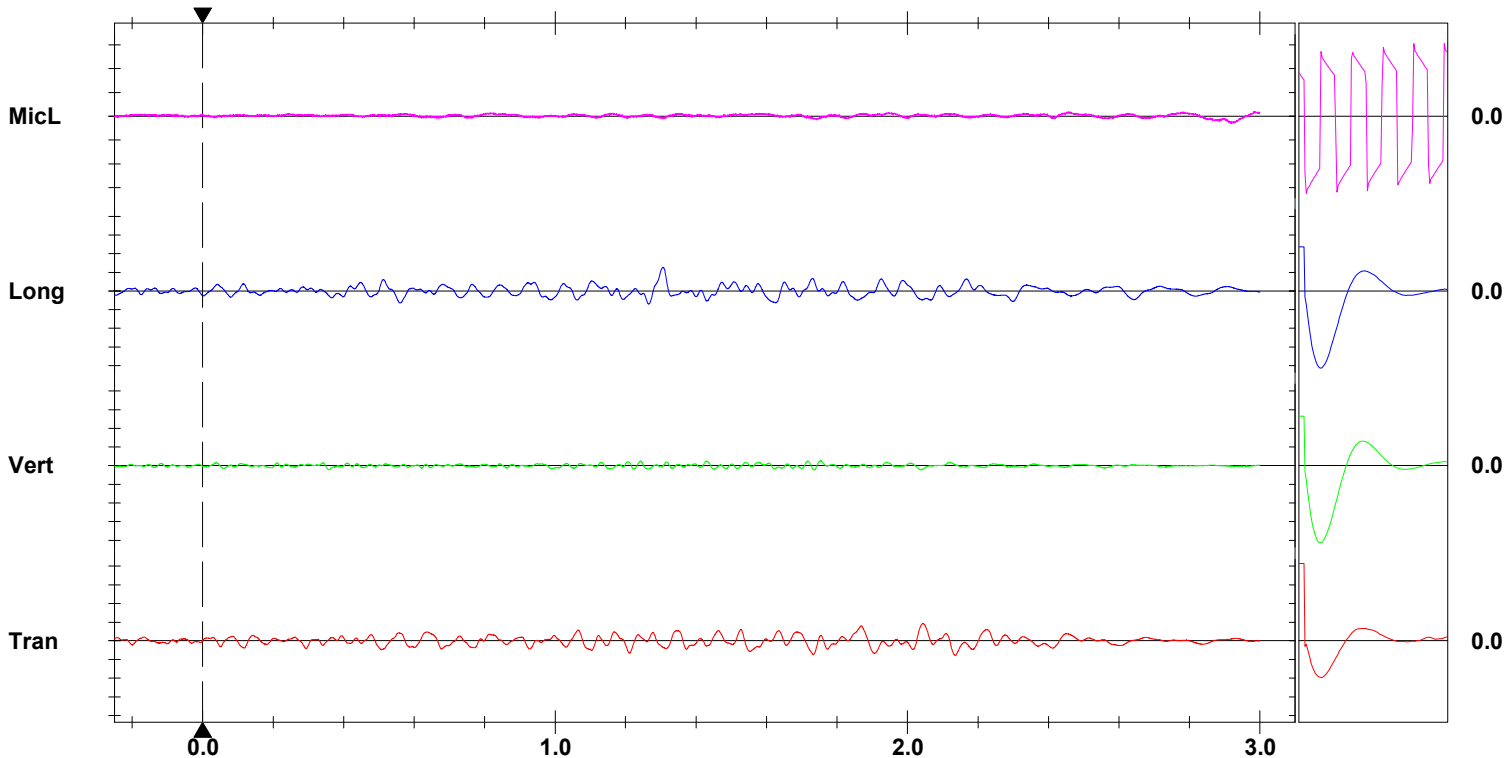
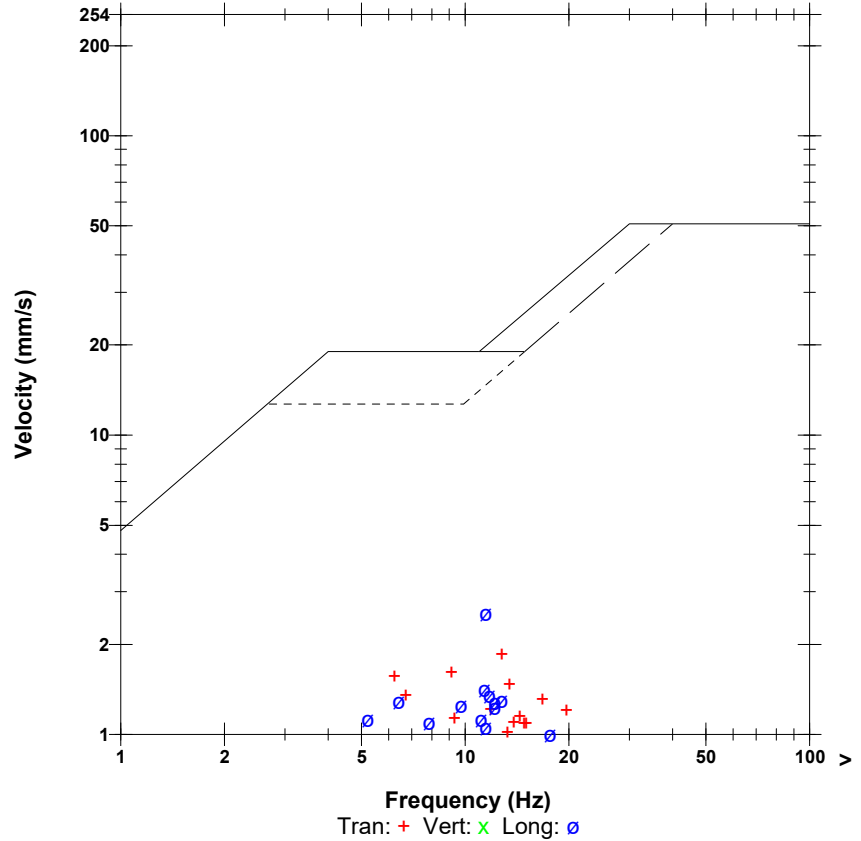
Notes MP#2

Microphone Linear Weighting
PSPL <88 dB(L)
ZC Freq 4.4 Hz
Channel Test Passed (Freq = 20.5 Hz Amp = 1658 mv)

	Tran	Vert	Long	
PPV	1.860	0.520	2.546	mm/s
ZC Freq	12.8	21	11.5	Hz
Time (Rel. to Trig)	2.044	1.754	1.306	sec
Peak Acceleration	0.025	0.016	0.026	g
Peak Displacement	0.029	0.005	0.030	mm
Sensor Check	Check	Passed	Passed	
Frequency	7.5	7.5	7.1	Hz
Overswing Ratio	2.9	3.1	3.8	

Peak Vector Sum 2.645 mm/s at 1.306 sec
N/A: Not Applicable

USBM RI8507 And OSMRE



Time Scale: 0.20 sec/div **Amplitude Scale:** Geo: 2.000 mm/s/div Mic: 1.000 pa.(L)/div
Trigger =

Sensor Check

Date/Time Tran at 10:05:43 October 26, 2023
Trigger Source Geo: 0.510 mm/s
Range Geo: 254.0 mm/s
Record Time 1.0 sec at 1024 sps
Job Number: 1

Serial Number BE22005 V 10.72-8.17 MiniMate Plus
Battery Level 6.2 Volts
Unit Calibration February 17, 2023 by Saros Int.
File Name __TEMP.EVT

Notes MP#8

Location:
 Client:
 User Name:
 General:

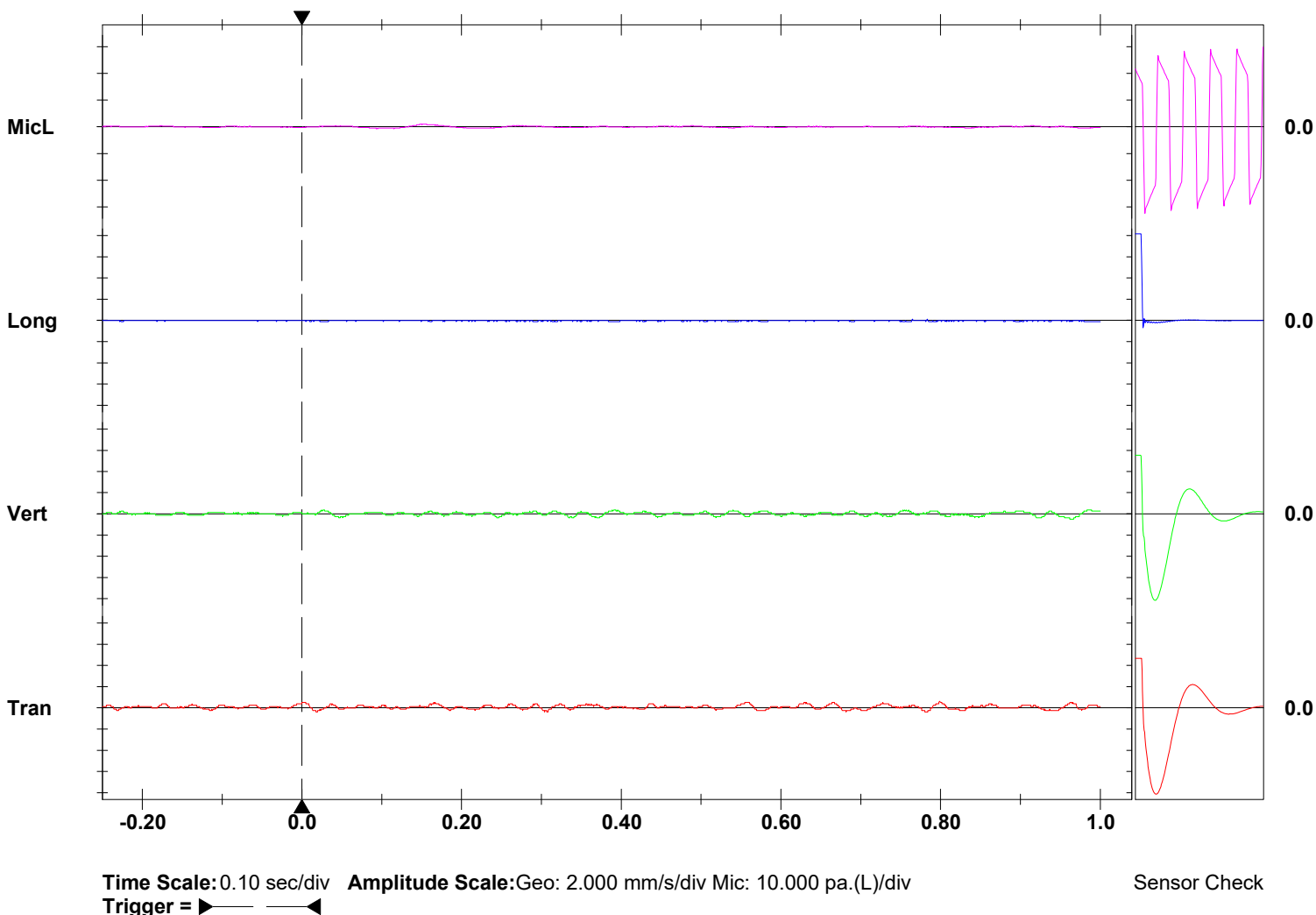
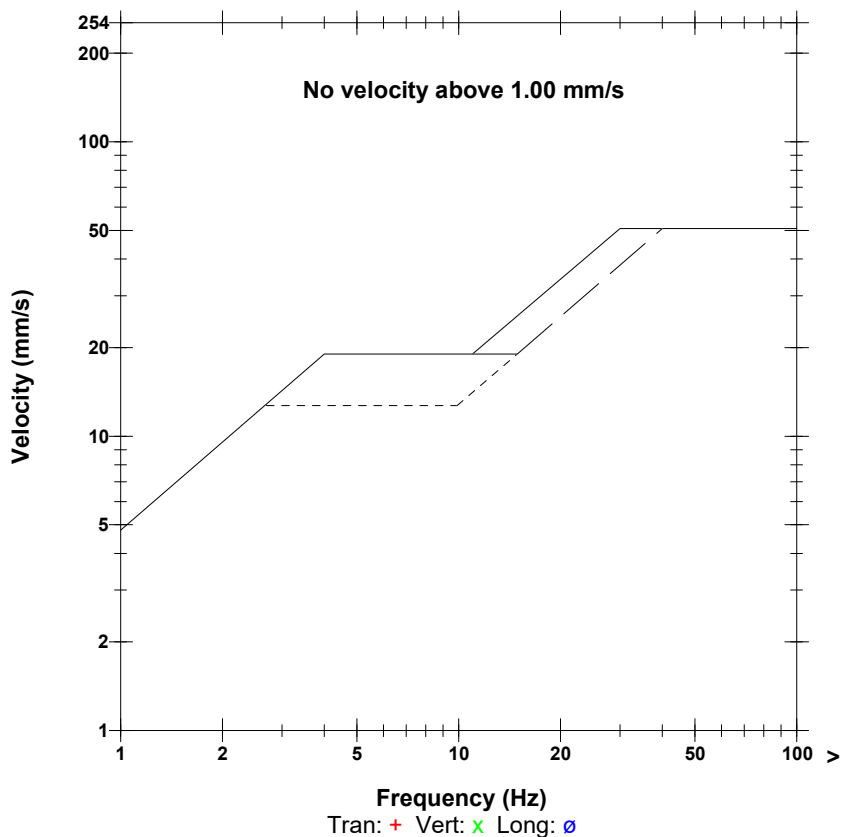
Extended Notes

Microphone Linear Weighting
PSPL 94.0 dB(L) at 0.147 sec
ZC Freq 12 Hz
Channel Test Passed (Freq = 19.7 Hz Amp = 562 mv)

	Tran	Vert	Long	
PPV	0.635	0.508	0.127	mm/s
ZC Freq	30	19	>100	Hz
Time (Rel. to Trig)	0.799	0.962	-0.229	sec
Peak Acceleration	0.027	0.013	0.013	g
Peak Displacement	0.004	0.004	0.000	mm
Sensor Check	Passed	Passed	Check	
Frequency	7.3	7.7	8.5	Hz
Overswing Ratio	3.7	3.5	5.0	

Peak Vector Sum 0.730 mm/s at 0.963 sec

USBM RI8507 And OSMRE





Event Report

Date/Time Long at 10:06:05 October 26, 2023
Trigger Source Geo: 0.500 mm/s, Mic: 110.0 dB(L)
Range Geo: 254.0 mm/s
Record Time 3.0 sec at 1024 sps
Operator/Setup: Operator/factory.MMB

Serial Number UM21716 V 10-90GC Micromate ISEE
Battery Level 3.8 Volts
Unit Calibration June 9, 2023 by InstanTel
File Name UM21716_20231026100605.IDFW

Notes MP#4

Location:

Client:

User Name:

General:

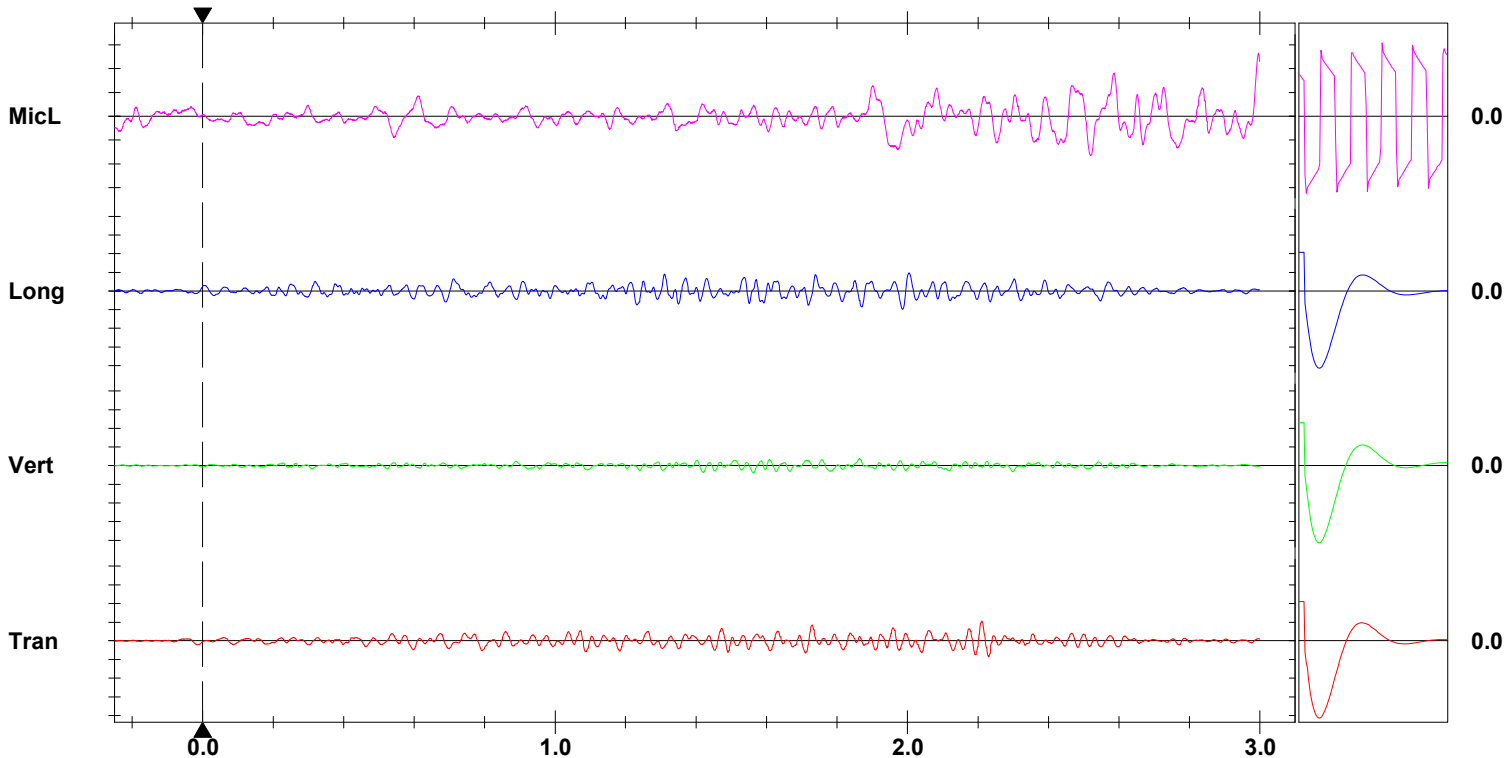
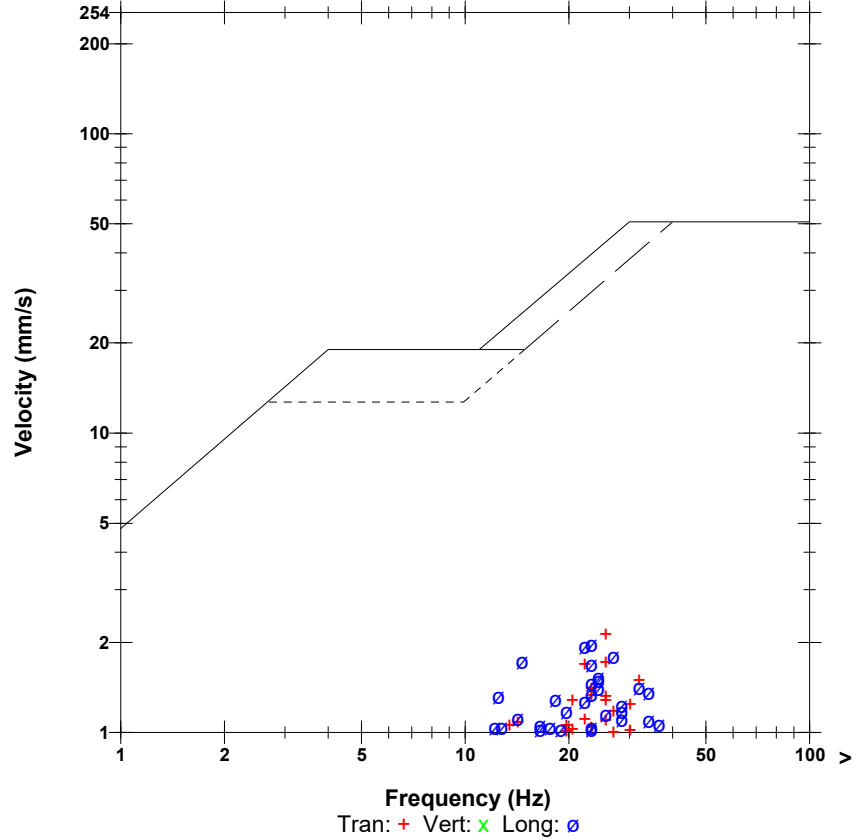
Microphone Linear Weighting
PSPL 102.5 dB(L) at 2.996 sec
ZC Freq N/A
Channel Test Passed (Freq = 20.5 Hz Amp = 1360 mv)

	Tran	Vert	Long	
PPV	2.128	0.780	1.970	mm/s
ZC Freq	26	22	23	Hz
Time (Rel. to Trig)	2.210	1.563	1.985	sec
Peak Acceleration	0.058	0.018	0.050	g
Peak Displacement	0.013	0.007	0.013	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.5	7.5	7.3	Hz
Overswing Ratio	4.3	3.7	4.8	

Peak Vector Sum 2.171 mm/s at 2.211 sec

N/A: Not Applicable

USBM RI8507 And OSMRE



Time Scale: 0.20 sec/div **Amplitude Scale:** Geo: 2.000 mm/s/div Mic: 1.000 pa.(L)/div
Trigger = ▶ ◀

Sensor Check

Start Time	End Time	Status
----- SERIAL NUMBER: UM10342		
Oct 26/23 09:34:50		Start Monitoring Waveform Geo: 0.500 mm/s Mic: 110.0 dB
Oct 26/23 09:34:55	Oct 26/23 09:34:58	Event recorded. Trigger Level Tran: 0.500 mm/s
Oct 26/23 09:34:58	Oct 26/23 09:35:01	Event recorded. Trigger Level Tran: 0.500 mm/s
Oct 26/23 09:35:01	Oct 26/23 09:35:04	Event recorded. Trigger Level Tran: 0.500 mm/s
Oct 26/23 09:35:04	Oct 26/23 10:32:52	Event recorded. (Keyboard Exit) Waveform Geo: 0.500 mm/s Mic: 110.0 dB

Results Summary Report

Customer	Blakebrook Quarry		
Date of blast	26/10/23		
Time of blast	10am		
Blast number	6		
Monitor Location	Location 2 [REDACTED] Keerrong Rd Blakebrook)		
Monitor name/ model details:	Instantel Micromate		
Monitor Serial no	UM10341		
Time of recording/comments	10-06 am		
Calibration date	22/05/2023		
Instrumentation used to measure the airblast overpressure and ground vibration levels meets the requirements of Australian Standard AS 2187.2-2006.			
(Y)			
Airblast overpressure result (dB)	188		
Ground vibration result (PPV)	2.645		
Licence limits	Airblast overpressure - 115 dB Ground vibration (PPV) - 5mm/s		
Comments			

Monitor Location	Location 8 [REDACTED] Nimbin Rd Blakebrook)		
Monitor name/ model details:	Instantel Minimate Plus		
Monitor Serial no	BE22005		
Time of recording/comments	10-05 am		
Calibration date	17-02-2023		
Instrumentation used to measure the airblast overpressure and ground vibration levels meets the requirements of Australian Standard AS 2187.2-2006.			
(Y)			
Airblast overpressure result (dB)	94.0		
Ground vibration result (PPV)	0.730		
EPL limits	Airblast overpressure - 115 dB Ground vibration (PPV) - 5mm/s		
Comments			

Monitor Location	Location 4 [REDACTED] Booerie Creek Road Booerie Creek)		
Monitor name/ model details:	Instantel Blastmate III Monitor 7		
Monitor Serial no	UM 21716		
Time of recording/comments	10-06 am		
Calibration date	09-06-2023		
Instrumentation used to measure the airblast overpressure and ground vibration levels meets the requirements of Australian Standard AS 2187.2-2006.			
(Y)			
Airblast overpressure result (dB)	102.5		
Ground vibration result (PPV)	2.171		

EPL limits	Airblast overpressure - 115 dB Ground vibration (PPV) - 5mm/s
Comments	

Monitor Location	Additional residence - [REDACTED] Keerrong Rd	No trigger
Monitor name/ model details:	Instantel Minimate	
Monitor Serial no	UM10342	
Time of recording/comments	—	
Calibration date	22-05-2023	
Instrumentation used to measure the airblast overpressure and ground vibration levels meets the requirements of Australian Standard AS 2187.2-2006.		(Y)
Airblast overpressure result (dB)	No trigger	
Ground vibration result (PPV)	No trigger	
EPL limits	Airblast overpressure - 115 dB Ground vibration (PPV) - 5mm/s	
Comments	Under 0.5mm/s & 110dBLS	

Name:	[REDACTED]	
Signature:	[REDACTED]	
Position:	Administration	Date: 26/10/2023

Figure 2: Noise & Blast Monitoring Locations Map

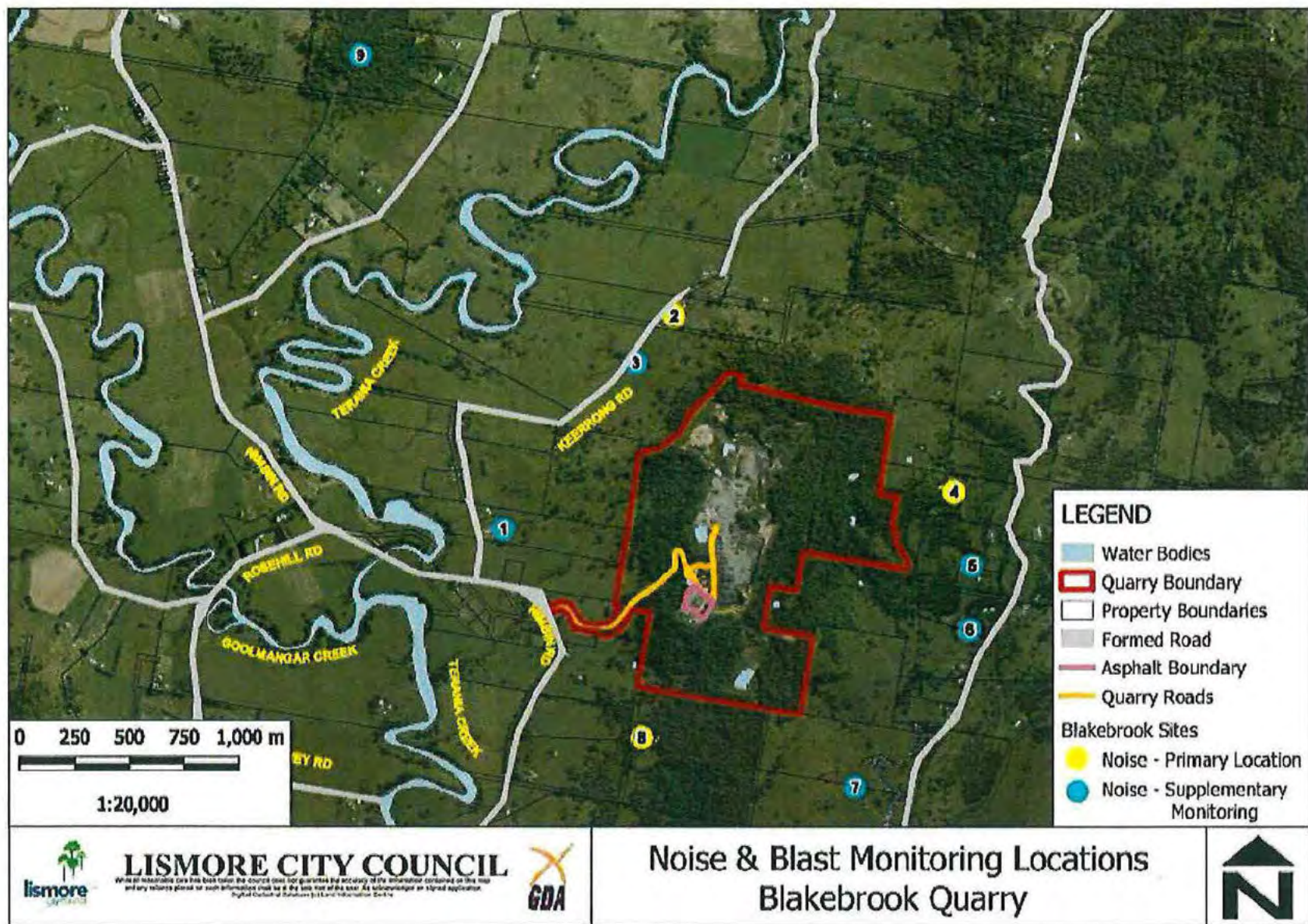


Table 2.1 Primary Receiver Locations	
Receiver	Street Address
2	█ Keerrong Rd Blakebrook
4	█ Booerie Creek Road Booerie Creek
8	█ Nimbin Rd Blakebrook



Appendix N

Complaints Register

Environmental Complaints Register



To be kept for at least 4 years	Method of complaint (phone, face to face)	Details of Complainant	Nature of Complaint	Action Taken	Reason for no Action (if applicable)	NCAR Report no:
2023						
01/01/2023 31/01/2023				Nil - No complaints received		
01/02/2023 28/02/2023				Nil - No complaints received		
16/03/2023	Phone call lodged via LCC CRM system	Local resident 2km from Quarry	Less than 24hrs notice of upcoming blast	Internal investigation		238
01/04/2023 30/04/2023				Nil - No complaints received		
01/05/2023 31/05/2023				Nil- No complaints received		
01/06/2023 01/06/2023				Nil - No complaints received		
01/07/2023 31/07/2023				Nil – No complaints received		
01/08/2023 31/08/2023				Nil- No complaints received		
01/09/2023 30/09/2023				Nil- No complaints received		
1/10/2023 31/10/2023				Nil- No complaints received		
01/11/2023 30/11/2023				Nil- No complaints received		
01/12/2023 31/12/2023				Nil – No complaints received		



Appendix O

Non-compliance 3 – Blast Notification



NON-COMPLIANCE REPORT

EPL3384

550 NIMBIN ROAD BLAKEBROOK

(Condition L5.3 - 24hr Blast Notifications)

Reporting Period:
(16 - 23 March)

EPA ref. 19669

March 2023

Non-Compliance Report

FOR

Blakebrook Quarry

AT

550 Nimbin Road
BLAKEBROOK NSW 2480

Lismore City Council

43 Oliver Avenue, Goonellabah NSW 2480
PO Box 23A, Lismore, 2480 | T [1300 878 387](tel:1300878387)
Email: council@lismore.nsw.gov.au | Website: www.lismore.nsw.gov.au

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ABN: 60 080 932 837

Document No	Issue	Description	Author	Approved by
ED23/22428	March 2023	Final		

Contents

SECTION 1 - INTRODUCTION	4
1.1 Background	4
1.2 Site Description	4
SECTION 2 – COMPLIANCE DETAILS	5
2.1 Licensing Requirements.....	5
2.2 Non-Compliance details	5
2.3 Findings and Mitigation	5



SECTION 1 - INTRODUCTION

1.1 Background

Blakebrook Quarry is operated by Northern Rivers Quarry (NRQ) which is a commercial entity owned by Lismore City Council. The Quarry is located at 550 Nimbin Road, Blakebrook, approximately seven (7) kilometres northwest of Lismore on Lot 53 DP 1254990 for Extraction Areas and Lot 54 DP 1254990 for Asphalt Plant an ancillary activity.

Blakebrook Quarry currently operates pursuant to the Minister's Conditions of Approval MP07-0020, dated 20 July 2021, otherwise known as the development approval. The Blakebrook Quarry presently holds an environmental protection licence (EPL3384) issued by the NSW Environmental Protection Authority (EPA), authorising extractive activities of up to 500,000 tonnes per annum, including asphalt production as an ancillary activity. Blakebrook Quarry excavates aggregate material for use on infrastructure development and maintenance with its primary product being basalt. This basalt is primarily utilised as a road base and supply for Asphalt production. The Blakebrook Quarry predominantly supplies products for community road maintenance within the local government area.

1.2 Site Description

The site occupies an area of approximately 128 ha (incorporating 45ha rezoned to C2 Environmental Conservation (gazetted on 18 December 2020), providing long term security for the biodiversity offset area. Surrounding land is used for agricultural and rural purposes. The location of the Quarry is as shown in Figure 1. Site Location

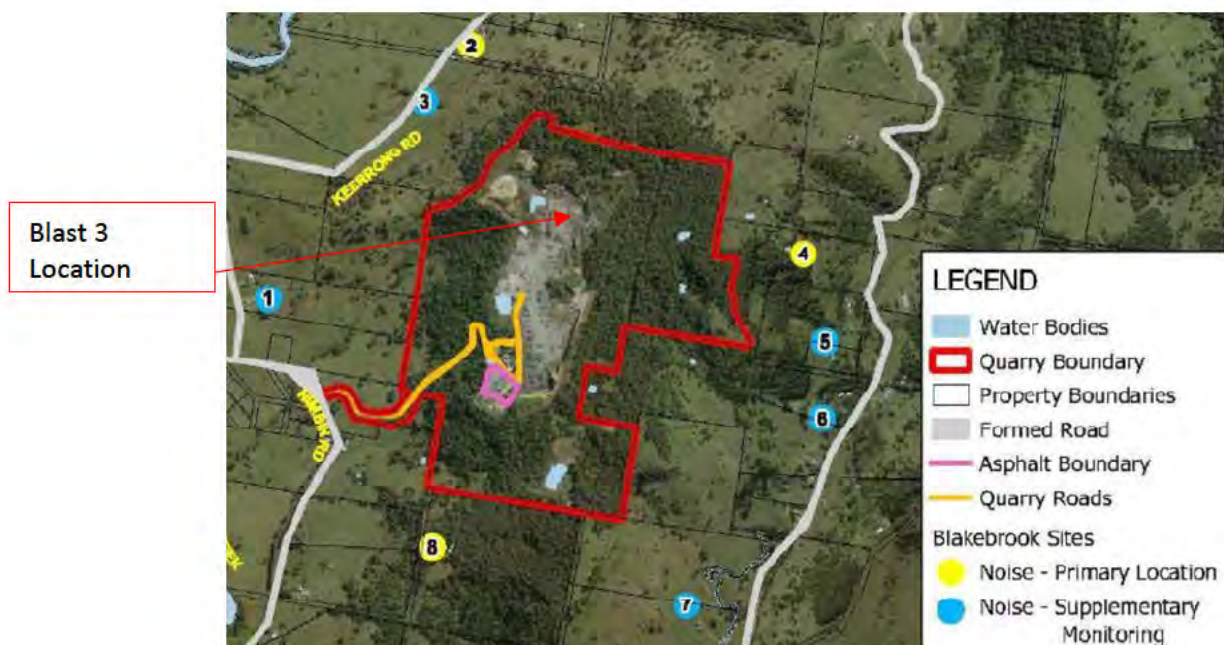


Figure 1. Site Location

SECTION 2 – COMPLIANCE DETAILS

2.1 Licensing Requirements

In accordance with EPL L5.3 all sensitive receivers are to be given at least 24 hours' notice when blasting is to be undertaken.

R2.2 The licensee must provide written details of the notification to the EPA within 7 days of the date on which they became aware of the incident.

2.2 Non-Compliance details


Following the blast that was executed on 16 March 2023 at 12:15pm. Council identified that less than 24 hours' notice was provided to sensitive receivers.

Sensitive receivers were contacted between (2:30pm-3:12pm) on 15 March 2023. However, the blast was executed at 12:15pm on 16 March 2023. Providing approximately 21-22 hours' notice.

Council self-reported this non-compliance to the EPA on 16 March 2023 (EPA ref. 19669)

2.3 Findings and Mitigation

Council is committed to its responsibility to comply with licence conditions. All relevant staff have been notified and briefed on the non-compliance findings and appropriate management response is underway. Including re-education of the project approval licence conditions and requirements.





Appendix P

Dust Deposition Gauge Results

RESULTS OF DUST ANALYSIS

3 samples supplied by Lismore City Council on 9/01/2023. Lab Job No. N6159.

Exposure Period 12/12/22 - 09/01/23

Samples submitted [REDACTED]. Your Job: PO 84432.

PO Box 23a LISMORE NSW 2480

Sample Site	EAL Code	Sample Comments	Diameter of Funnel (mm)	Sampling Days (days)	Sample Volume (L)	Deposit rate of Insoluble Solids		Deposit rate of:			
						Total Suspended Solids (SS _T)		Ash **	Combustible Matter **	Soluble Matter **	Total Solids **
						(g/m ² /month)	(mg/m ² /day)				
Method Reference						<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>
S23-0001-D1	N6159/1	fine org. matter	150	28	1.300	0.5	17	0.4	0.1	1.2	1.7
S23-0001-D2	N6159/2	fine org. matter, cloudy	150	28	0.790	0.9	31	0.5	0.4	1.2	2.2
S23-0001-D3	N6159/3	fine org. matter	150	28	1.380	1.7	58	1.5	0.2	1.5	3.3

METHODS REFERENCE:

a. Australian Standard AS 3580.10.1.8.2.2-2016 (1mm pre-sieving then using Whatman 42 Ashless filter)

NOTES:

1. .. No data/ information
2. Total Suspended Solids = Mass deposition rate of insoluble solids
3. Per Month calculations incorporate 'Sampling Days' hence per Month actually refers to number of days sampled.
4. All services undertaken by EAL are covered by the EAL Laboratory Services Terms and Conditions (refer scu.edu.au/eal or on request).
5. Results relate only to the samples tested.
6. ** NATA accreditation does not cover the performance of this service.
7. This report was issued on 12/01/2023.



with nata
ACCREDITATION
Accreditation No. 14960
Accredited for compliance
with ISO/IEC 17025 - Testing

RESULTS OF DUST ANALYSIS

3 samples supplied by Lismore City Council on 7/02/2023. Lab Job No. N7141.

Exposure Period: 09/01/23 - 06/02/23

Samples submitted: [REDACTED]. Your Job: Blakebrook Quarry.

PO Box 23a LISMORE NSW 2480

Sample Site	EAL Code	Sample Comments	Diameter of Funnel (mm)	Sampling Days (days)	Sample Volume (L)	Deposit rate of Insoluble Solids		Deposit rate of:			
						Total Suspended Solids (SS _T)		Ash ** (g/m ² /month)	Combustible Matter ** (g/m ² /month)	Soluble Matter ** (g/m ² /month)	Total Solids ** (g/m ² /month)
						(g/m ² /month)	(mg/m ² /day)				
Method Reference						a	a	a	a	a	a
S23-0033-D1	N7141/1	..	150	28	1.480	0.7	24	0.4	0.4	0.6	1.4
S23-0033-D2	N7141/2	fine org. matter, cloudy	150	28	1.690	4.8	159	1.1	3.7	1.3	6.1
S23-0033-D3	N7141/3	fine org. matter, cloudy	150	28	1.900	0.7	24	0.2	0.5	1.2	1.9

METHODS REFERENCE:

a. Australian Standard AS 3580.10.1.8.2.2-2016 (1mm pre-sieving then using Whatman 42 Ashless filter)

NOTES:

- .. No data/ information
- Total Suspended Solids = Mass deposition rate of insoluble solids
- Per Month calculations incorporate 'Sampling Days' hence per Month actually refers to number of days sampled.
- All services undertaken by EAL are covered by the EAL Laboratory Services Terms and Conditions (refer scu.edu.au/eal or on request).
- Results relate only to the samples tested.
- ** NATA accreditation does not cover the performance of this service.
- This report was issued on 10/02/2023.



RESULTS OF DUST JAR ANALYSIS

3 samples supplied by Lismore City Council on 7/03/2023. Lab Job No. N8309.

Exposure Period: 06/02/23 - 06/03/23

Samples submitted by [REDACTED]. Your Job: PO 84432.

PO Box 23a LISMORE NSW 2480

Sample Site	EAL Code	Sample Comments	Diameter of Funnel (mm)	Sampling Days (days)	Sample Volume (L)	Deposit rate of Insoluble Solids		Deposit rate of:			
						Total Suspended Solids (SSt)		Ash ** (g/m ² /month)	Combustible Matter ** (g/m ² /month)	Soluble Matter ** (g/m ² /month)	Total Solids ** (g/m ² /month)
						(g/m ² /month)	(mg/m ² /day)				
<i>Method Reference</i>						<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>
S23-0045-D1	N8309/1	fine org. matter	150	28	1.36	0.9	29	0.7	0.2	1.9	2.8
S22-0045-D2	N8309/2	fine org. matter	150	28	2.02	1.1	35	0.9	0.2	1.0	2.0
S22-0045-D3	N8309/3	fine org. matter	150	28	2.13	3.9	131	3.2	0.8	3.1	7.1

METHODS REFERENCE:

a. Australian Standard AS 3580.10.1.8.2.2-2016 (1mm pre-sieving then using Whatman 42 Ashless filter)

NOTES:

1. .. No data/ information
2. Total Suspended Solids = Mass deposition rate of insoluble solids
3. Per Month calculations incorporate 'Sampling Days' hence per Month actually refers to number of days sampled.
4. All services undertaken by EAL are covered by the EAL Laboratory Services Terms and Conditions (refer scu.edu.au/eal or on request).
5. Results relate only to the samples tested.
6. ** NATA accreditation does not cover the performance of this service.
7. This report was issued on 15/03/2023.



RESULTS OF DUST ANALYSIS

3 samples supplied by Lismore City Council on 3/04/2023. Lab Job No. N9349.

Exposure Period: 06/03/23 - 03/04/23

Samples submitted by [REDACTED]. Your Job: PO: 84432.

PO Box 23a LISMORE NSW 2480

Sample Site	EAL Code	Sample Comments	Diameter of Funnel (mm)	Sampling Days (days)	Sample Volume (L)	Deposit rate of Insoluble Solids		Deposit rate of:			
						Total Suspended Solids (SS _T)		Ash **	Combustible Matter **	Soluble Matter **	Total Solids **
						(g/m ² /month)	(mg/m ² /day)				
Method Reference						<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>
S23-0067-D1	N9349/1	..	150	28	1.100	0.7	22	0.3	0.3	0.6	1.2
S22-0067-D2	N9349/2	..	150	28	1.050	0.8	27	0.3	0.5	0.7	1.5
S22-0067-D3	N9349/3	fine org. matter, brown	150	28	0.840	4.8	160	1.8	3.0	6.4	11.2

METHODS REFERENCE:

a. Australian Standard AS 3580.10.1.8.2.2-2016 (1mm pre-sieving then using Whatman 42 Ashless filter)

NOTES:

1. .. No data/ information
2. Total Suspended Solids = Mass deposition rate of insoluble solids
3. Per Month calculations incorporate 'Sampling Days' hence per Month actually refers to number of days sampled.
4. All services undertaken by EAL are covered by the EAL Laboratory Services Terms and Conditions (refer scu.edu.au/eal or on request).
5. Results relate only to the samples tested.
6. ** NATA accreditation does not cover the performance of this service.
7. This report was issued on 17/04/2023.



RESULTS OF DUST ANALYSIS

3 samples supplied by Lismore City Council on 2/05/2023. Lab Job No. P0233.

Exposure Period: 03/04/23 - 01/05/23

Samples submitted by [REDACTED]. Your Job: PO 84432.

PO Box 23a LISMORE NSW 2480

Sample Site	EAL Code	Sample Comments	Diameter of Funnel (mm)	Sampling Days (days)	Sample Volume (L)	Deposit rate of Insoluble Solids		Deposit rate of:			
						Total Suspended Solids (SSt)		Ash **	Combustible Matter **	Soluble Matter **	Total Solids **
						(g/m ² /month)	(mg/m ² /day)				
<i>Method Reference</i>						<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>
S23-0095-D1	P0233/1	org. matter	150	28	1.500	0.6	21	0.6	0.0	1.4	2.0
S22-0095-D2	P0233/2	org. matter	150	28	1.500	0.2	7	0.2	0.0	1.5	1.7
S22-0095-D3	P0233/3	org. matter, cloudy	150	28	1.570	2.5	82	1.5	1.0	8.1	10.6

METHODS REFERENCE:

a. Australian Standard AS 3580.10.1.8.2.2-2016 (1mm pre-sieving then using Whatman 42 Ashless filter)

NOTES:

1. .. No data/ information
2. Total Suspended Solids = Mass deposition rate of insoluble solids
3. Per Month calculations incorporate 'Sampling Days' hence per Month actually refers to number of days sampled.
4. All services undertaken by EAL are covered by the EAL Laboratory Services Terms and Conditions (refer scu.edu.au/eal or on request).
5. Results relate only to the samples tested.
6. ** NATA accreditation does not cover the performance of this service.
7. This report was issued on 8/05/2023.



RESULTS OF DUST ANALYSIS

3 samples supplied by Lismore City Council on 31/05/2023. Lab Job No. P1336.

Exposure Period: 01/05/2023 - 29/05/2023

Samples submitted by [REDACTED]. Your Job: PO 84432 Blakebrook Quarry.

PO Box 23a LISMORE NSW 2480

Sample Site	EAL Code	Sample Comments	Diameter of Funnel (mm)	Sampling Days (days)	Sample Volume (L)	Deposit rate of Insoluble Solids		Deposit rate of:			
						Total Suspended Solids (SS _T)		Ash ** (g/m ² /month)	Combustible Matter ** (g/m ² /month)	Soluble Matter ** (g/m ² /month)	Total Solids ** (g/m ² /month)
						(g/m ² /month)	(mg/m ² /day)				
Method Reference						<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>
S23-0125-D1	P1336/1	..	150	28	1.880	0.3	10	0.2	0.1	0.4	0.7
S22-0125-D2	P1336/2	cloudy	150	28	1.750	0.5	15	0.3	0.2	0.5	1.0
S22-0125-D3	P1336/3	cloudy, yellow	150	28	1.610	2.8	92	0.8	2.0	1.5	4.3

METHODS REFERENCE:

a. Australian Standard AS 3580.10.1.8.2.2-2016 (1mm pre-sieving then using Whatman 42 Ashless filter)

NOTES:

1. .. No data/ information
2. Total Suspended Solids = Mass deposition rate of insoluble solids
3. Per Month calculations incorporate 'Sampling Days' hence per Month actually refers to number of days sampled.
4. All services undertaken by EAL are covered by the EAL Laboratory Services Terms and Conditions (refer scu.edu.au/eal or on request).
5. Results relate only to the samples tested.
6. ** NATA accreditation does not cover the performance of this service.
7. This report was issued on 7/06/2023.



RESULTS OF DUST ANALYSIS

3 samples supplied by Lismore City Council on 28/06/2023. Lab Job No. P2402.

Exposure Period: 29/05/2023 - 26/06/2023

Samples submitted by: [REDACTED]. Your Job: Blakebrook Quarry PO 84432 Dust.

PO Box 23a LISMORE NSW 2480

Sample Site	EAL Code	Sample Comments	Diameter of Funnel (mm)	Sampling Days (days)	Sample Volume (L)	Deposit rate of Insoluble Solids		Deposit rate of:			
						Total Suspended Solids (SSt)		Ash **	Combustible Matter **	Soluble Matter **	Total Solids **
						(g/m ² /month)	(mg/m ² /day)				
<i>Method Reference</i>						<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>
S23-0125-D1	P2402/1	wasp, algae, fine org. matter	150	28	0.240	0.3	11	0.1	0.3	2.2	2.5
S23-0125-D2	P2402/2	bugs	150	28	0.260	0.3	11	0.0	0.3	2.3	2.6
S23-0125-D3	P2402/3	fine org. matter	150	28	0.100	0.4	15	0.1	0.3	1.8	2.2

METHODS REFERENCE:

a. Australian Standard AS 3580.10.1.8.2.2-2016 (1mm pre-sieving then using Whatman 42 Ashless filter)

NOTES:

1. ... No data/ information
2. Total Suspended Solids = Mass deposition rate of insoluble solids
3. Per Month calculations incorporate 'Sampling Days' hence per Month actually refers to number of days sampled.
4. All services undertaken by EAL are covered by the EAL Laboratory Services Terms and Conditions (refer scu.edu.au/eal or on request).
5. Results relate only to the samples tested.
6. ** NATA accreditation does not cover the performance of this service.
7. This report was issued on 10/07/2023.



RESULTS OF DUST ANALYSIS

3 samples supplied by Lismore City Council on 25/07/2023. Lab Job No. P3389.

Exposure Period 26/06/2023 - 24/07/2023

Samples submitted by [REDACTED] Your Job: PO 84432 - Blakebrook Quarry.

PO Box 23a LISMORE NSW 2480

Sample Site	EAL Code	Sample Comments	Diameter of Funnel (mm)	Sampling Days (days)	Sample Volume (L)	Deposit rate of Insoluble Solids		Deposit rate of:			
						Total Suspended Solids (SSt)		Ash **	Combustible Matter **	Soluble Matter **	Total Solids **
						(g/m ² /month)	(mg/m ² /day)				
<i>Method Reference</i>						<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>
S23-0159-D1	P3389/1	algae, bug, org. matter	150	28	0.240	0.3	11	0.2	0.2	0.2	0.5
S22-0159-D2	P3389/2	org. matter	150	28	0.310	0.2	6	0.1	0.1	0.0	0.2
S22-0159-D3	P3389/3	fine org. matter, cloudy	150	28	0.310	1.2	42	0.7	0.5	1.0	2.2

METHODS REFERENCE:

a. Australian Standard AS 3580.10.1.8.2.2-2016 (1mm pre-sieving then using Whatman 42 Ashless filter)

NOTES:

1. ... No data/ information
2. Total Suspended Solids = Mass deposition rate of insoluble solids
3. Per Month calculations incorporate 'Sampling Days' hence per Month actually refers to number of days sampled.
4. All services undertaken by EAL are covered by the EAL Laboratory Services Terms and Conditions (refer scu.edu.au/eal or on request).
5. Results relate only to the samples tested.
6. ** NATA accreditation does not cover the performance of this service.
7. This report was issued on 28/07/2023.



NOTICE OF ACCREDITATION
ACCREDITATION
 Accreditation No. 14990
 Accredited for compliance
 with ISO/IEC 17025 - Testing

RESULTS OF DUST ANALYSIS

3 samples supplied by Lismore City Council on 22/08/2023. Lab Job No. P4399.

Exposure Period: 24/07/2023 - 21/08/2023

Samples submitted by [REDACTED]. Your Job: PO 101120 - TP 23/112 - Air Sampling Blakebrook FY.

PO Box 23a LISMORE NSW 2480

Sample Site	EAL Code	Sample Comments	Diameter of Funnel (mm)	Sampling Days (days)	Sample Volume (L)	Deposit rate of Insoluble Solids		Deposit rate of:			
						Total Suspended Solids (SSt)		Ash **	Combustible Matter **	Soluble Matter **	Total Solids **
						(g/m ² /month)	(mg/m ² /day)				
<i>Method Reference</i>						<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>
S23-0194-D1	P4399/1	fine org. matter, cloudy	150	28	0.310	0.8	26	0.6	0.2	0.5	1.3
S22-0194-D2	P4399/2	dead bug	150	28	0.280	0.1	4	0.1	0.0	0.3	0.4
S22-0194-D3	P4399/3	blade of grass, cloudy, yellow	150	28	0.120	1.2	39	0.7	0.4	0.8	2.0

METHODS REFERENCE:

a. Australian Standard AS 3580.10.1.8.2.2-2016 (1mm pre-sieving then using Whatman 42 Ashless filter)

NOTES:

1. ... No data/ information
2. Total Suspended Solids = Mass deposition rate of insoluble solids
3. Per Month calculations incorporate 'Sampling Days' hence per Month actually refers to number of days sampled.
4. All services undertaken by EAL are covered by the EAL Laboratory Services Terms and Conditions (refer scu.edu.au/eal or on request).
5. Results relate only to the samples tested.
6. ** NATA accreditation does not cover the performance of this service.
7. This report was re-issued on 29/08/2023 and replaces the report issued on 29/08/2023. Sample site ID's corrected.



RESULTS OF DUST ANALYSIS

3 samples supplied by Lismore City Council on 18/09/2023. Lab Job No. P5386.

Exposure Period: 21/08/23 - 18/09/23

Samples submitted by [REDACTED]. Your Job: PO 101120 - TP 23/112 - Air Sampling Blakebrook FY.

PO Box 23a LISMORE NSW 2480

Sample Site	EAL Code	Sample Comments	Diameter of Funnel (mm)	Sampling Days (days)	Sample Volume (L)	Deposit rate of Insoluble Solids		Deposit rate of:			
						Total Suspended Solids (SSt)		Ash **	Combustible Matter **	Soluble Matter **	Total Solids **
						(g/m ² /month)	(mg/m ² /day)				
<i>Method Reference</i>						<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>
S23-0204-D1	P5386/1	spider, fine org. matter	150	28	0.260	0.4	12	0.2	0.2	1.8	2.1
S23-0204-D2	P5386/2	ants, fine org. matter	150	28	0.380	0.3	10	0.2	0.1	0.2	0.5
S23-0204-D3	P5386/3	ants, algae, fine org. matter, cloudy, yellow	150	28	0.360	2.6	86	1.2	1.4	4.9	7.5

METHODS REFERENCE:

a. Australian Standard AS 3580.10.1.8.2.2-2016 (1mm pre-sieving then using Whatman 42 Ashless filter)

NOTES:

1. .. No data/ information
2. Total Suspended Solids = Mass deposition rate of insoluble solids
3. Per Month calculations incorporate 'Sampling Days' hence per Month actually refers to number of days sampled.
4. All services undertaken by EAL are covered by the EAL Laboratory Services Terms and Conditions (refer scu.edu.au/eal or on request).
5. Results relate only to the samples tested.
6. ** NATA accreditation does not cover the performance of this service.
7. This report was issued on 22/09/2023.



RESULTS OF DUST ANALYSIS

3 samples supplied by Lismore City Council on 17/10/2023. Lab Job No. P6443.

Exposure Period 18/09/2023 - 16/10/2023

Samples submitted by [REDACTED] Your Job: PO 84432 -Air Sampling Blakebrook FY23.

PO Box 23a LISMORE NSW 2480

Sample Site	EAL Code	Sample Comments	Diameter of Funnel (mm)	Sampling Days (days)	Sample Volume (L)	Deposit rate of Insoluble Solids		Deposit rate of:			
						Total Suspended Solids (SSt)		Ash **	Combustible Matter **	Soluble Matter **	Total Solids **
						(g/m ² /month)	(mg/m ² /day)				
Method Reference						a	a	a	a	a	a
S23-0223-D1	P6443/1	fine org. matter	150	28	0.180	0.7	23	0.6	0.1	0.2	0.9
S23-0223-D2	P6443/2	fine org. matter	150	28	0.290	0.8	26	0.4	0.3	0.7	1.5
S23-0223-D3	P6443/3	algae, fine org. matter, cloudy, yellow	150	28	0.220	20.7	689	10.3	10.4	6.2	26.8

METHODS REFERENCE:

a. Australian Standard AS 3580.10.1.8.2.2-2016 (1mm pre-sieving then using Whatman 42 Ashless filter)

NOTES:

1. ... No data/ information
2. Total Suspended Solids = Mass deposition rate of insoluble solids
3. Per Month calculations incorporate 'Sampling Days' hence per Month actually refers to number of days sampled.
4. All services undertaken by EAL are covered by the EAL Laboratory Services Terms and Conditions (refer scu.edu.au/eal or on request).
5. Results relate only to the samples tested.
6. ** NATA accreditation does not cover the performance of this service.
7. This report was issued on 26/10/2023.



RESULTS OF DUST ANALYSIS

3 samples supplied by Lismore City Council on 14/11/2023. Lab Job No. P7535.

Exposure Period: 16/10/2023 - 13/11/2023

Samples submitted by [REDACTED] Job: PO 101120-TP 23/112 -Air Sampling Blakebrook FY 23.

PO Box 23a LISMORE NSW 2480

Sample Site	EAL Code	Sample Comments	Diameter of Funnel (mm)	Sampling Days (days)	Sample Volume (L)	Deposit rate of Insoluble Solids		Deposit rate of:			
						Total Suspended Solids (SSt)		Ash **	Combustible Matter **	Soluble Matter **	Total Solids **
						(g/m ² /month)	(mg/m ² /day)				
<i>Method Reference</i>						<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>
S23 - 0253 - D1	P7535/1	org. matter	150	28	2.400	0.9	30	0.7	0.2	1.8	2.7
S23 - 0253 - D2	P7535/2	org. matter	150	28	2.240	0.4	15	0.3	0.2	2.0	2.5
S23 - 0253 - D3	P7535/3	large org. matter, cloudy, brown	150	28	2.110	5.2	174	1.6	3.6	25.8	31.0

METHODS REFERENCE:

a. Australian Standard AS 3580.10.1.8.2.2-2016 (1mm pre-sieving then using Whatman 42 Ashless filter)

NOTES:

1. .. No data/ information
2. Total Suspended Solids = Mass deposition rate of insoluble solids
3. Per Month calculations incorporate 'Sampling Days' hence per Month actually refers to number of days sampled.
4. All services undertaken by EAL are covered by the EAL Laboratory Services Terms and Conditions (refer scu.edu.au/eal or on request).
5. Results relate only to the samples tested.
6. ** NATA accreditation does not cover the performance of this service.
7. This report was issued on 17/11/2023.



RESULTS OF DUST JAR ANALYSIS

3 samples supplied by Lismore City Council on 11/12/2023. Lab Job No. P8545.

Exposure Period: 13/11/23 - 11/12/23

Samples submitted by [REDACTED] Your Job: PO 101120-TP 23/112 -Air Sampling Blakebrook FY 23.

PO Box 23a LISMORE NSW 2480

Sample Site	EAL Code	Sample Comments	Diameter of Funnel (mm)	Sampling Days (days)	Sample Volume (L)	Deposit rate of Insoluble Solids		Deposit rate of:			
						Total Suspended Solids (SS _T)		Ash **	Combustible Matter **	Soluble Matter **	Total Solids **
						(g/m ² /month)	(mg/m ² /day)				
Method Reference						a	a	a	a	a	a
S23-0271-D1	P8545/1	fine org. matter	150	28	0.950	0.5	17	0.2	0.3	0.6	1.2
S23-0271-D2	P8545/2	fine org. matter	150	28	0.970	0.7	24	0.1	0.6	0.8	1.5
S23-0271-D3	P8545/3	fine org. matter, cloudy, yellow	150	28	0.970	4.3	142	1.5	2.8	6.2	10.5

METHODS REFERENCE:

a. Australian Standard AS 3580.10.1.8.2.2-2016 (1mm pre-sieving then using Whatman 42 Ashless filter)

NOTES:

1. .. No data/ information
2. Total Suspended Solids = Mass deposition rate of insoluble solids
3. Per Month calculations incorporate 'Sampling Days' hence per Month actually refers to number of days sampled.
4. All services undertaken by EAL are covered by the EAL Laboratory Services Terms and Conditions (refer scu.edu.au/eal or on request).
5. Results relate only to the samples tested.
6. ** NATA accreditation does not cover the performance of this service.
7. This report was issued on 18/12/2023.



RESULTS OF DUST ANALYSIS

3 samples supplied by Lismore City Council on 8/01/2024. Lab Job No. P9232.

Exposure Period: 11/12/23 - 08/01/24

Samples submitted by [REDACTED]. Your Job: PO 101120-TP 23/112 - Air Sampling Blakebrook FY 23.

PO Box 23a LISMORE NSW 2480

Sample Site	EAL Code	Sample Comments	Diameter of Funnel (mm)	Sampling Days (days)	Sample Volume (L)	Deposit rate of Insoluble Solids		Deposit rate of:			
						Total Suspended Solids (SST)		Ash **	Combustible Matter **	Soluble Matter **	Total Solids **
						(g/m ² /month)	(mg/m ² /day)				
<i>Method Reference</i>						a	a	a	a	a	a
S24-0003-D1	P9232/1	large org. matter	150	28	3.570	1.4	46	1.0	0.4	2.2	3.6
S24-0003-D2	P9232/2	fine org. matter	150	28	3.100	1.0	35	0.8	0.2	1.8	2.9
S24-0003-D3	P9232/3	wasp, fine org. matter, cloudy	150	28	2.890	14.5	484	9.3	5.3	5.4	20.0

METHODS REFERENCE:

a. Australian Standard AS 3580.10.1.8.2.2-2016 (1 mm pre-sieving then using Whatman 42 Ashless filter)

NOTES:

1. .. No data/ information
2. Total Suspended Solids = Mass deposition rate of insoluble solids
3. Per Month calculations incorporate 'Sampling Days' hence per Month actually refers to number of days sampled.
4. All services undertaken by EAL are covered by the EAL Laboratory Services Terms and Conditions (refer scu.edu.au/eal or on request).
5. Results relate only to the samples tested.
6. ** NATA accreditation does not cover the performance of this service.
7. This report was issued on 16/01/2024.





Appendix Q

Non-compliance 4 – Dust Exceedance



INCIDENT REPORT

(DUST EXCEEDANCE)

550 NIMBIN ROAD
BLAKEBROOK

Reporting Period:

18 September 2023 – 16 October 2023

November 2023

Dust Exceedance Report

for

Blakebrook Quarry

at

**550 Nimbin Road
BLAKEBROOK NSW 2480**

Lismore City Council

43 Oliver Avenue, Goonellabah NSW 2480
PO Box 23A, Lismore, 2480 | T 02 6625 0500
Email: council@lismore.nsw.gov.au | Website: www.lismore.nsw.gov.au

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ABN: 60 080 932 837

Document No	Issue	Description	Author	Approved by
ED23/55183	1/11/2023	Final	████████	████████

Contents

SECTION 1 - INTRODUCTION.....	4
1.1 Background.....	4
1.2 Site Description.....	4
1.3 Licensing & Management Plan Requirements.....	5
SECTION 2 – NON-COMPLIANCE DETAILS	6
2.1 Non-conformance details	6
2.2 Dust Exceedance Notification	6
2.3 Investigation Findings	7
2.4 Mitigation Actions.....	9

SECTION 1 - INTRODUCTION

1.1 Background

Blakebrook Quarry is operated by Northern Rivers Quarry (NRQ) which is a commercial entity owned by Lismore City Council. The Quarry is located at 550 Nimbin Road, Blakebrook, approximately seven (7) kilometres northwest of Lismore on Lot 53 DP 1254990 for Extraction Areas and Lot 54 DP 1254990 for Asphalt Plant an ancillary activity.

Blakebrook Quarry currently operates pursuant to the Minister's Conditions of Approval MP07_0020, dated 20 July 2021, otherwise known as the development approval. Blakebrook Quarry presently holds an environmental protection licence (EPL 3384) issued by the NSW Environmental Protection Authority (EPA), authorising extractive activities of up to 500,000 tonnes per annum, including asphalt production as an ancillary activity. Blakebrook Quarry excavates aggregate material for use on infrastructure development and maintenance with its primary product being basalt. This basalt is primarily utilised as a road base and supply for Asphalt production. Blakebrook Quarry predominantly supplies products for community road maintenance within the local government area.

1.2 Site Description

The site occupies an area of approximately 128 ha (incorporating 45ha rezoned to C2 Environmental Conservation (gazetted on 18 December 2020), providing long term security for the biodiversity offset area. Surrounding land is used for agricultural and rural purposes. The location of the Quarry is as shown in Figure 1. Site Location.

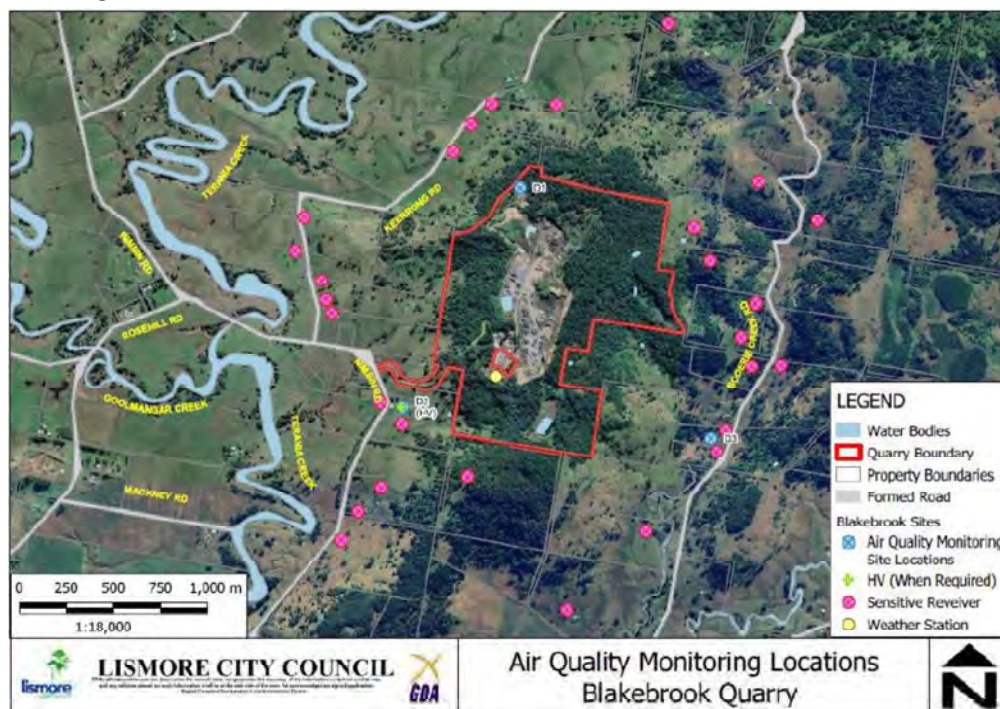


Figure 1. Site Location

1.3 Licensing & Management Plan Requirements

Blakebrook Quarry operates under the NSW EPL 3384 and Project Approval MP07_0020. Air Quality from Quarry and Asphalt plant operations at nearby residential receivers, is managed by the Air Quality Management Plan (AQMP v3.1) for Blakebrook Quarry.

EPL 3384: O3 Dust

- O3.1 The premises must be maintained in a condition which minimises or prevents the emission of dust from the premises.
- O3.2 Trucks entering and leaving the premises that are carrying loads must be covered at all times, except during loading and unloading.

MP07_0020 – Schedule 3, condition 10:

Air Quality Impact Assessment Criteria

10. The Proponent must ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the project do not cause exceedances of the criteria in Table 4 at any residence on privately-owned land.

Table 4: Air quality criteria

Pollutant	Averaging Period	Criterion	
Particulate matter < 10 µm (PM ₁₀)	Annual	a,d 25 µg/m ³	
Particulate matter < 10 µm (PM ₁₀)	24 hour	b 50 µg/m ³	
Total suspended particulates (TSP)	Annual	a,d 90 µg/m ³	
^c Deposited dust	Annual	b 2 g/m ² /month	a,d 4 g/m ² /month

Air Quality Management Plan – Monitoring requirements:

The approved AQMP v3.1 prescribes the following routine dust monitoring criteria.

Table 8.1 Summary of Monitoring Program

Site	Parameter	Averaging Period	Sampling Period	Sample Collection	Equipment
D1	Deposited Dust	1 Month	Continuous	Every 30 days (± 2 days)	Dust Depreciation Gauge
D2	Deposited Dust	1 Month	Continuous	Every 30 days (± 2 days)	Dust Depreciation Gauge
D3	Deposited Dust	1 Month	Continuous	Every 30 days (± 2 days)	Dust Depreciation Gauge

To assist in determining compliance with the impact assessment criteria in Table 8.4, assessment of the 'ash' component of the dust sample will also be undertaken. Due to the nature and composition of the hard rock resource, and the many pollutants that can make up 'insoluble solids', ash will be used as an indicator of quarry dust contribution. This will ensure that organic pollutants such as bird dropping, pollen, wind-blown vegetation and the like will not be confused with the inorganic dust contribution, of which, a proportion would be from the quarry operations.

SECTION 2 – NON-COMPLIANCE DETAILS

2.1 Non-conformance details

Blakebrook Quarry routine monthly dust monitoring results were issued by the laboratory on Thursday 26 October 2023. Results were immediately reviewed, and a non-conformance was identified at monitoring location D3 (monitoring period being 18 September 2023 to 16 October 2023) as outlined below.

RESULTS OF DUST ANALYSIS

3 samples supplied by Lismore City Council on 17/10/2023. Lab Job No. P6443.

Exposure Period 18/09/2023 - 16/10/2023

Samples submitted by [REDACTED] Your Job: PO 94432 -Air Sampling Blakebrook FY23.

PO Box 23a LISMORE NSW 2480

Sample Site	EAL Code	Sample Comments	Diameter of Funnel (mm)	Sampling Days (days)	Sample Volume (L)	Deposit rate of Insoluble Solids		Deposit rate of:			
						Total Suspended Solids (SS _T)		Ash ** (g/m ² /month)	Combustible Matter ** (g/m ³ /month)	Soluble Matter ** (g/m ³ /month)	Total Solids ** (g/m ³ /month)
						(g/m ² /month)	(mg/m ² /day)				
Method Reference						a	a	a	a	a	a
S23-0223-D1	P6443/1	fine org. matter	150	28	0.180	0.7	23	0.6	0.1	0.2	0.9
S23-0223-D2	P6443/2	fine org. matter	150	28	0.290	0.8	26	0.4	0.3	0.7	1.5
S23-0223-D3	P6443/3	algae, fine org. matter; cloudy, yellow	150	28	0.220	20.7	689	10.3	10.4	6.2	26.8

METHODS REFERENCE:

a. Australian Standard AS 3580.10.1.8.2.2-2016 (1mm pre-sieving then using Whatman 42 Ashless filter)

NOTES:

1. ... No data/ information
2. Total Suspended Solids = Mass deposition rate of insoluble solids
3. Per Month calculations incorporate 'Sampling Days' hence per Month actually refers to number of days sampled.
4. All services undertaken by EAL are covered by the EAL Laboratory Services Terms and Conditions (refer sou.edu.au/eal or on request).
5. Results relate only to the samples tested
6. ** NATA accreditation does not cover the performance of this service.
7. This report was issued on 26/10/2023.



Environmental Analysis Laboratory, Southern Cross University,
Tel. 02 6620 3678, website: sou.edu.au/eal

[REDACTED]
Laboratory Manager

2.2 Dust Exceedance Notification

Council reported the exceedance to the EPA Hotline 131 555 and DPE via the Major Projects Portal on Thursday 26 October 2023 as per Schedule 5, condition 9 and AQMP reporting requirements, details provided below.

MP07_0020 – Schedule 5, condition 9

REPORTING AND AUDITING

Non-Compliance Notification

9. Within seven days of becoming aware of a non-compliance, the Applicant must notify the Department of the non-compliance. The notification must be in writing via the Major Projects Website and identify the development (including the development application number and name), set out the condition of this consent that the development is non-compliant with, the way in which it does not comply and the reasons for the non-compliance (if known) and what actions have been, or will be, undertaken to address the non-compliance.

NON-COMPLIANCE REPORTING PROTOCOL

All non-compliance will be reported in accordance with the requirements of the CoA that relate to incident reporting. The CoA require that where there is a non-compliance with conditions, the DPE and relevant agencies are to be informed within 24 hours.

In addition, within seven days of notifying the DPE and other agencies a written report is to be provided to the DPE and other relevant agencies detailing the following:

- date, time and nature of the exceedance/incident;
- cause (or likely cause) of the exceedance/incident;
- describe what action has been taken to date; and
- describe the proposed measures to address the exceedance/incident.

Lismore City Council will meet the requirement of the DPE to address the cause or impact of any incident within the required period as defined by the DPE. Lismore City Council will maintain a register of accidents and incidents.

2.3 Investigation Findings

Council has investigated this exceedance in consultation with Quarry operational staff and have identified that during the exposure period a combination of contributing factors were likely responsible to have generated dust in the area.

Monitoring location D3 is situated on privately-owned property at [REDACTED] Boorie Creek Road, located approximately 1400 metres Southeast of the Quarry. Dust station D3 was recently relocated (within the privately owned property) to be situated closer to Boorie Creek Road, at the request of the current tenant due to safety concerns for Council staff regarding access to the property and dogs they have on the property.

Contributing factors were:

1. NNE winds during the monitoring period (**Figure 3**);
2. Exceedingly dry weather with rainfall for the monitoring period being < 24 mm;
3. Contaminated samples from bird droppings; and
4. The overall placement of the monitoring location, where it is situated adjacent to two (2) dirt roads which are frequently used by residents of Boorie Creek to access Lismore and the surrounding region.

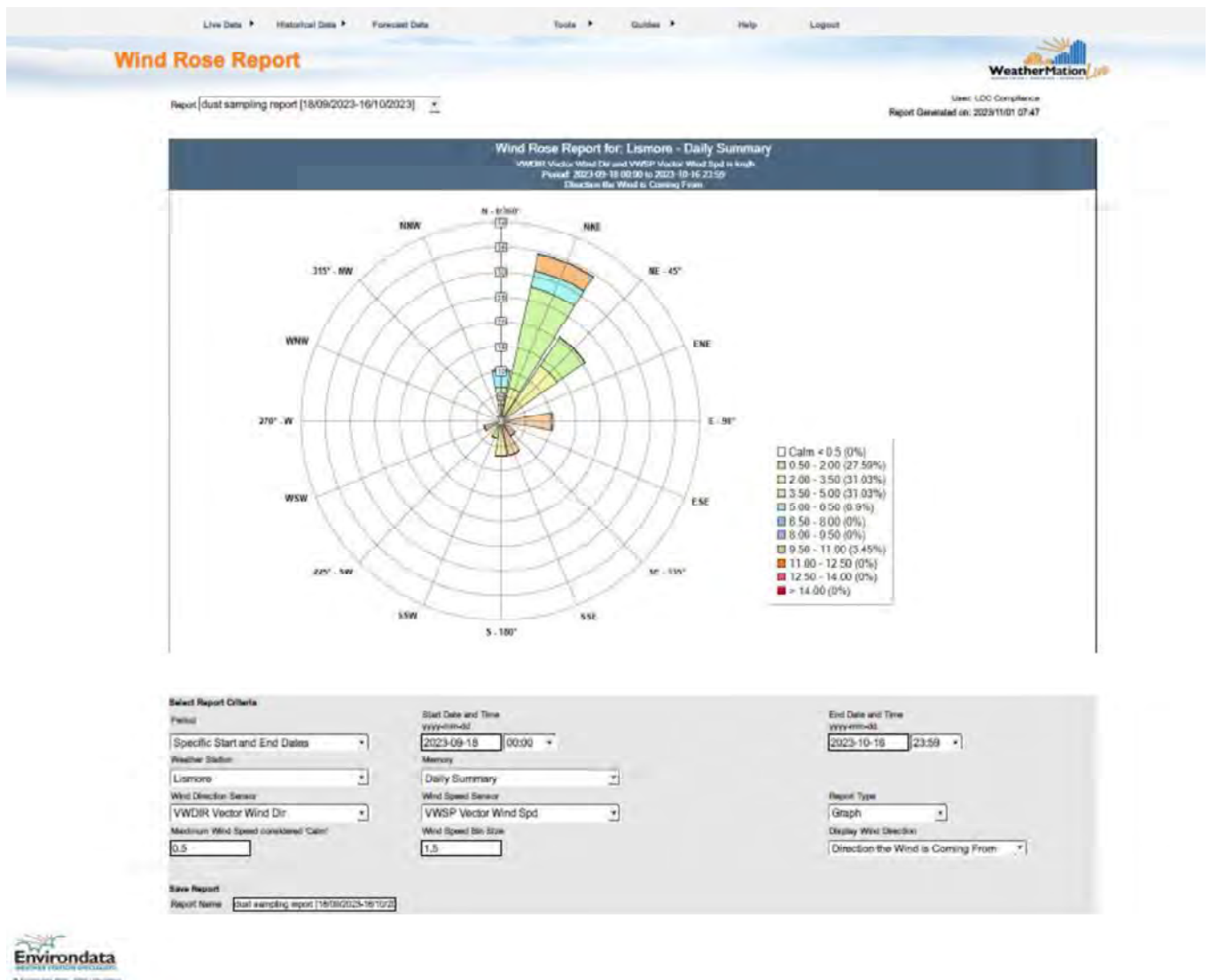


Figure 3. Winds from the reporting period. Predominately from the NNE

In addition, the quarry staff have identified a large amount of bird droppings that have contaminated the samples. (Figures 4 & 5).



Figure 4. Bird droppings contaminating sample.



Figure 5. Bird droppings contaminating sample.

Operational activity at the site has been minimal averaging 33 truck movements per day with all loads being covered, well within the allowable limit of 120 truck movements per day. There has been no blasting undertaken on the site during the reporting period, nor any changes to operating activities that are thought to have contributed to the exceedance. There have been no complaints received from the public or neighbours during this time.

2.4 Mitigation Actions

Operational staff have been notified of the dust monitoring exceedance for their awareness. Air quality mitigation actions are continuing on site as per normal operations, including daily dust suppression for crushing activities, watering down of haul roads and trafficable areas.

The seasonal weather pattern for the Far North Coast at this time of year is typically very dry, with traffic generated dust on local gravel roads being an indicator. Daily monitoring of weather conditions via the onsite weather station will continue.

As per MP07_0020, Schedule 4, condition 1(a) and (b), Council has written to the affected landowner to notify them of the exceedance and also provided the *Mine Dust and You Fact sheet*.



Appendix R

Non-compliance 5 – Dust Exceedance



NON-COMPLIANCE REPORT

DUST EXCEEDANCE

550 NIMBIN ROAD
BLAKEBROOK NSW 2480

Reporting Period:
11 December 2023 – 8 January 2024

Regulator references:
DPE - MP07_0020-PA-67
EPA - Ref. 26922

Dust Exceedance Report

for

Blakebrook Quarry

at

550 Nimbin Road
BLAKEBROOK NSW 2480

Lismore City Council

43 Oliver Avenue, Goonellabah NSW 2480
PO Box 23A, Lismore, 2480 | T [02 6625 0500](tel:0266250500)
Email: council@lismore.nsw.gov.au
Website: www.lismore.nsw.gov.au

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Document No	Issue	Description	Author	Approved by
ED24/3072	23/01/2024	Final	<div></div>	<div></div>

Contents

SECTION 1 - INTRODUCTION	4
1.1 Background	4
1.2 Site Description	4
1.3 Licensing & Management Plan Requirements	5
SECTION 2 – NON-COMPLIANCE DETAILS	6
2.1 Non-conformance details	6
2.2 Dust Exceedance Notification.....	6
2.3 Investigation Findings.....	6
2.4 Mitigation Actions	8

SECTION 1 - INTRODUCTION

1.1 Background

Blakebrook Quarry is operated by Northern Rivers Quarry (NRQ) which is a commercial entity owned by Lismore City Council. The Quarry is located at 550 Nimbin Road, Blakebrook, approximately seven (7) kilometres northwest of Lismore on Lot 53 DP 1254990 for Extraction Areas and Lot 54 DP 1254990 for Asphalt Plant an ancillary activity.

Blakebrook Quarry currently operates pursuant to the Minister's Conditions of Approval MP07_0020, dated 20 July 2021, otherwise known as the development approval. Blakebrook Quarry presently holds an environmental protection licence (EPL 3384) issued by the NSW Environmental Protection Authority (EPA), authorising extractive activities of up to 500,000 tonnes per annum, including asphalt production as an ancillary activity. Blakebrook Quarry excavates aggregate material for use on infrastructure development and maintenance with its primary product being basalt. This basalt is primarily utilised as a road base and supply for Asphalt production. Blakebrook Quarry predominantly supplies products for community road maintenance within the local government area.

1.2 Site Description

The site occupies an area of approximately 128 ha (incorporating 45ha rezoned to C2 Environmental Conservation (gazetted on 18 December 2020), providing long term security for the biodiversity offset area. Surrounding land is used for agricultural and rural purposes. The location of the Quarry is as shown in Figure 1. Site Location.

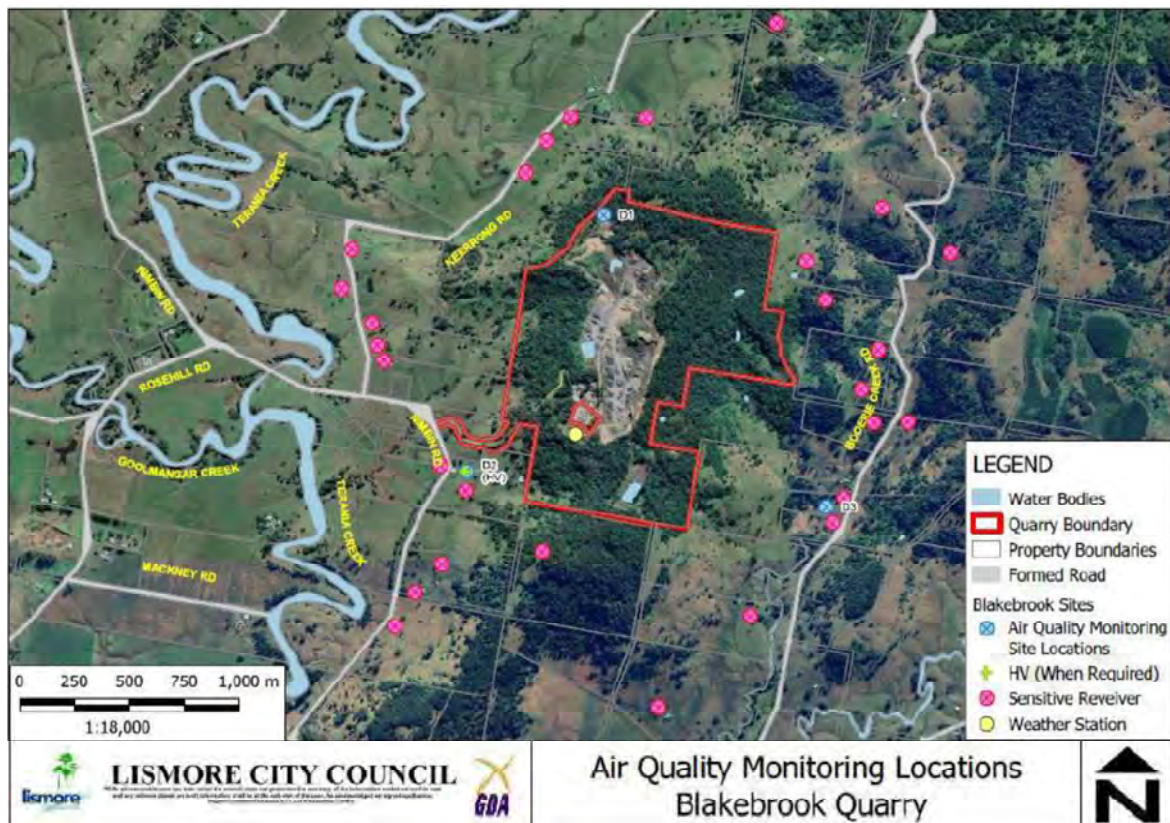


Figure 1. Site Location

1.3 Licensing & Management Plan Requirements

Blakebrook Quarry operates under the Project Approval MP07_0020 and NSW EPL 3384. Air Quality from Quarry and Asphalt plant operations at nearby residential receivers, is managed by the Air Quality Management Plan (AQMP v3.1) for Blakebrook Quarry.

MP07_0020 – Schedule 3, condition 10:

Air Quality Impact Assessment Criteria

10. The Proponent must ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the project do not cause exceedances of the criteria in Table 4 at any residence on privately-owned land.

Table 4: Air quality criteria

Pollutant	Averaging Period	Criterion	
Particulate matter < 10 µm (PM ₁₀)	Annual	a,d 25 µg/m ³	
Particulate matter < 10 µm (PM ₁₀)	24 hour	b 50 µg/m ³	
Total suspended particulates (TSP)	Annual	a,d 90 µg/m ³	
^c Deposited dust	Annual	b 2 g/m ² /month	a,d 4 g/m ² /month

EPL 3384: O3 Dust

- O3.1 The premises must be maintained in a condition which minimises or prevents the emission of dust from the premises.
- O3.2 Trucks entering and leaving the premises that are carrying loads must be covered at all times, except during loading and unloading.

Air Quality Management Plan – Monitoring requirements:

The approved AQMP v3.1 prescribes the following routine dust monitoring criteria.

Table 8.1 Summary of Monitoring Program

Site	Parameter	Averaging Period	Sampling Period	Sample Collection	Equipment
D1	Deposited Dust	1 Month	Continuous	Every 30 days (± 2 days)	Dust Depreciation Gauge
D2	Deposited Dust	1 Month	Continuous	Every 30 days (± 2 days)	Dust Depreciation Gauge
D3	Deposited Dust	1 Month	Continuous	Every 30 days (± 2 days)	Dust Depreciation Gauge

To assist in determining compliance with the impact assessment criteria in Table 8.4, assessment of 'ash' component of the dust sample will also be undertaken. Due to the nature and composition of the hard rock resource, and the many pollutants that can make up 'insoluble solids', ash will be used as an indicator of quarry dust contribution. This will ensure that organic pollutants such as bird droppings, pollen, wind-blown vegetation and the like will not be confused with the inorganic dust contribution of which, a proportion would be from the quarry operations.

SECTION 2 – NON-COMPLIANCE DETAILS

2.1 Non-conformance details

Blakebrook Quarry routine monthly dust monitoring results were issued by the laboratory on Tuesday 16 January 2024. A non-compliant dust result was identified at monitoring location D3 (monitoring period being 11 December 2023 to 8 January 2024) as outlined below.

RESULTS OF DUST ANALYSIS

3 samples supplied by Lismore City Council on 8/01/2024. Lab Job No. P9292.

Exposure Period: 11/12/23 - 08/01/24

Samples submitted to: [REDACTED] Your Job: PO 101120-TP 23/112-Air Sampling Blakebrook FY 23

PO Box 238 LISMORE NSW 2480

Sample Site	EAL Code	Sample Comments	Diameter of Funnel (mm)	Sampling Days (days)	Sample Volume (L)	Deposit rate of Insoluble Solids		Deposit rate of:			
						Total Suspended Solids (TSS)		Ash **	Combustible Matter **	Soluble Matter **	Total Solids **
						(g/m ² /month)	(mg/m ² /day)				
Method/Reference						a	a	a	a	a	a
S24-0003-D1	P0232/1	large org. matter	150	28	3.570	1.4	46	1.0	0.4	2.2	3.6
S24-0003-D2	P0232/2	fine org. matter	150	28	3.100	1.0	35	0.8	0.2	1.8	2.9
S24-0003-D3	P0232/3	wet, low org. matter; cloudy	150	28	2.890	14.5	464	9.3	5.3	5.4	20.0

METHODS REFERENCE

6. Australian standard AS 5580.18.1:2010 (1mm) pre-sieving then using whatman 42 Ashless filter)

NOTES

1. No data/ information
2. Total Suspended Solids = Mass deposition rate of insoluble solids
3. Per Month calculations incorporate Sampling Days/ hence per Month actually refers to number of days sampled
4. All services undertaken by EAL are covered by the EAL Laboratory Services Terms and Conditions (refer eal.scu.edu.au/eal on request)
5. Results relate only to the samples tested
6. ** NATA accreditation does not cover the performance of this service.
7. This report was issued on 16/01/2024



Environmental Analysis Laboratory, Southern Cross University,
Tel. 03 6620 3678, website: eal.scu.edu.au/eal



2.2 Dust Exceedance Notification

Council notified the Department via email as per Schedule 5 Condition 9 and EPA as per EPL 3384 condition R2.2 respectively.

MP07 0020 – Schedule 5, condition 9 – Non-compliance Notification:

9. Within seven days of becoming aware of a non-compliance, the Applicant must notify the Department of the non-compliance. The notification must be in writing via the Major Projects website and identify the development (including the development application number and name), set out the condition of this consent that the development is non-compliant with, the way in which it does not comply and the reasons for the non-compliance (if known) and what actions have been, or will be, undertaken to address the non-compliance.

EPL 3384 – R2 - Notification of Environmental Harm:

R2.2 The licensee must provide written details of the notification to the EPA within 7 days of the date on which they became aware of the incident.

2.3 Investigation Findings

Council has investigated this exceedance in consultation with Quarry operational staff and have identified that during the exposure period a combination of contributing factors were likely responsible for the exceedance.

Monitoring location D3 is situated on privately-owned property at [REDACTED] Booerie Creek Road, located approximately 1400 metres Southeast of the Quarry. Dust station D3 has been relocated (within the privately owned property) to be situated closer to Booerie Creek Road, at the request of the current tenant due to safety concerns for Council staff regarding access to the property and dogs they have on the property.

Seasonal weather patterns for the Far North Coast at this time of year is typically very hot with gusty conditions in the afternoon and intermittent rainfall, with traffic generated dust on local gravel roads being an indicator. These factors were experienced in the weeks leading into and during the monitoring period, likely having an impact on the results. In addition to this, the results identified a wasp and other organic matter that contaminated the sample. Notably the Quarry ceased operations and was closed during the Christmas period from 22 December 2023 to 2 January 2024.

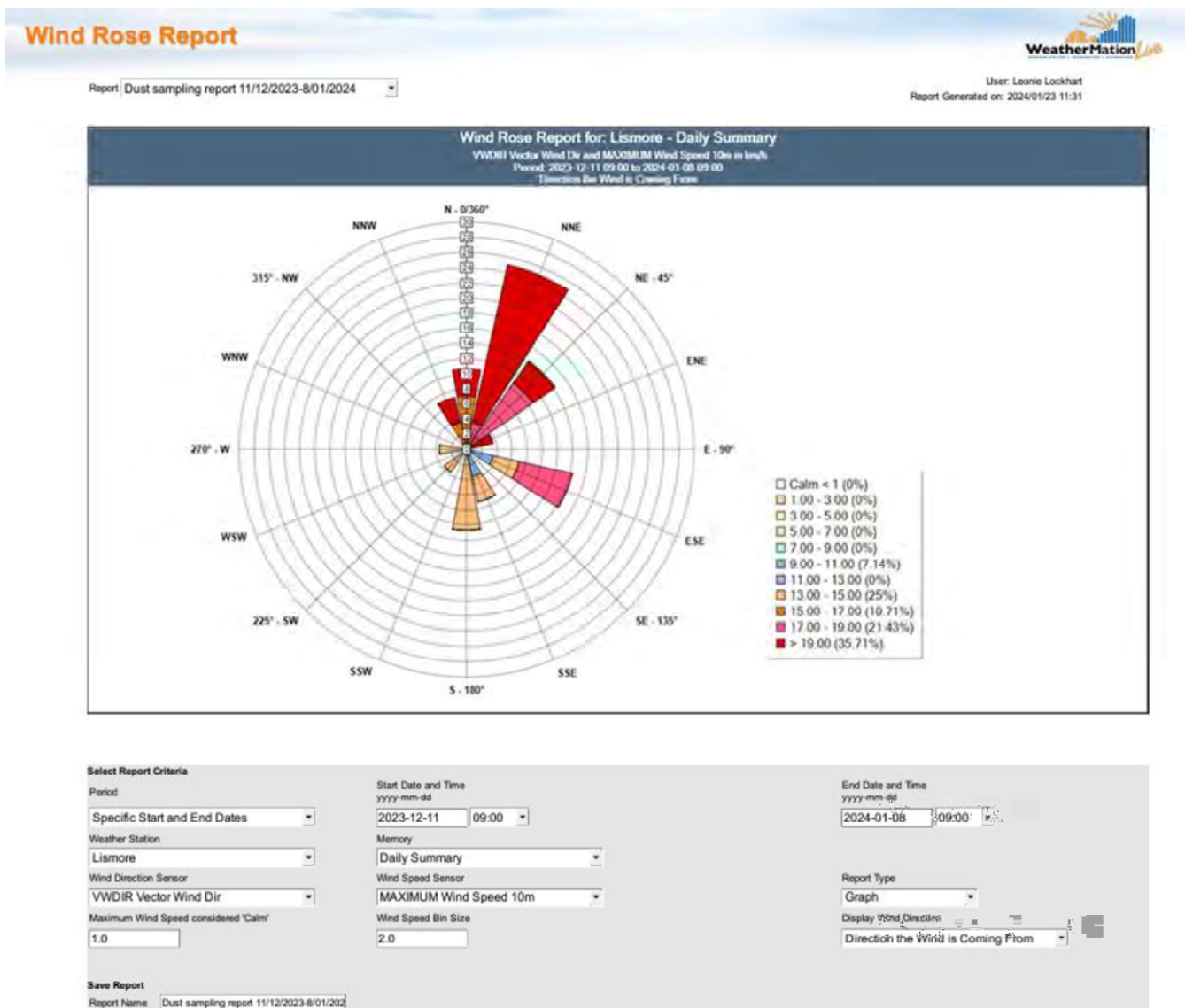


Figure 3. Winds from the reporting period. Predominately from the NNE

Operational activity at the site has been minimal averaging 13 truck movements per day with all loads being covered, and well within the allowable limit of 120 truck movements per day. There has been no blasting undertaken on the site during the reporting period, nor any changes to operating activities that are thought to have contributed to the exceedance. There have been no complaints received from the public or neighbours during this time.

2.4 Mitigation Actions

Operational staff have been notified of the dust monitoring exceedance for their awareness. Air quality mitigation actions are continuing on site as per normal operations, including daily dust suppression for crushing activities, watering down of haul roads and trafficable areas. Daily monitoring of weather conditions via the onsite weather station will continue.

As per MP07_0020 Schedule 4, condition 1(a) and (b), Council has written to the affected landowner to notify them of the exceedance and also provided the *Mine Dust and You Fact sheet*.



Appendix S

Weather Observations

Historical Reports



User: LCC Quamy

Report Generated on: 2023/02/14 13:35

Report **BQ - Monthly Weather Data**

Select Report Criteria

Period

Specific Start and End Dates

Weather Station(s)

Lismore

Report Type

Grid Report

Lower Guide

Value

Text

Colour

White

Start Date and Time

yyyy-mm-dd

2023-01-01 00:00

Memory

Display Summary

Graph Type

Bar

Upper Guide

Value

Text

Colour

White

End Date and Time

yyyy-mm-dd

2023-01-31 23:59

Sensor(s)

AVERAGE Air Temperature 10m, MAXIMUM Air Temperature 10m, MINIMUM Air Temperature 10m, S THETA Wind Direction 10m, STDEV Wind Speed 10m, TOTAL Rain Gauge

Summarize

Daily

☒ Auto Y-Axis Scale

Min Value

Max Value

Save Report

Report Name **BQ - Monthly Weather Data**

BQ - Monthly Weather Data

Date	Lismore AVERAGE Air Temperature 10m DegC	Lismore MAXIMUM Air Temperature 10m DegC	Lismore MINIMUM Air Temperature 10m DegC	Lismore S THETA Wind Direction 10m Degs	Lismore STDEV Wind Speed 10m km/h	Lismore TOTAL Rain Gauge mm
2023-01-01 09:00	21.6	26.2	17.7	94.8	3	0.8
2023-01-02 09:00	21.3	26.3	17.8	95.2	2.8	4.8
2023-01-03 09:00	21.7	27.1	18.5	91.6	2.5	0
2023-01-04 09:00	22.9	29.6	18.4	70.5	4	0
2023-01-05 09:00	23.6	31.5	19.6	90	4.8	62.2
2023-01-06 09:00	20.4	25.1	17.2	87.9	2.5	3.6
2023-01-07 09:00	20.2	23.7	17.3	66.9	2.8	0.2
2023-01-08 09:00	22.1	28.2	18.1	61.6	2.8	1.4
2023-01-09 09:00	21.5	26.2	18.1	94.8	2.8	0.4
2023-01-10 09:00	22.6	30.7	17.1	85.7	3	0
2023-01-11 09:00	22.7	29.2	18.4	66	3	0
2023-01-12 09:00	22.6	27.6	17.8	96.1	2.7	0
2023-01-13 09:00	22.1	28.3	16.4	82.6	3.2	0
2023-01-14 09:00	21.8	26.9	16.8	82.6	3.6	0
2023-01-15 09:00	21	24.3	17.7	92.5	2.9	0.2
2023-01-16 09:00	22.2	27.5	16.7	70.5	3.7	0
2023-01-17 09:00	22.9	28	18.4	82.3	3.1	0
2023-01-18 09:00	22	27.6	16.7	82.4	4	0.2
2023-01-19 09:00	22.1	27.8	17	85.9	3.6	0
2023-01-20 09:00	23.3	31.5	19	99.8	3.5	11.6
2023-01-21 09:00	19.5	23.6	16.4	60.3	2.7	4.8
2023-01-22 09:00	21	25.7	17.7	66.4	3.4	0.2
2023-01-23 09:00	22	26.6	17.9	71	3.7	0.2
2023-01-24 09:00	23.1	29.1	19	82.1	4.4	0.2
2023-01-25 09:00	23	30.1	19.5	83.8	3.8	8.6
2023-01-26 09:00	23.6	33.7	17.3	68	3	11.2
2023-01-27 09:00	26.4	35.4	21.8	51	2.8	0
2023-01-28 09:00	23.8	28.5	19.6	0	1.9	0
2023-01-29 09:00	25.3	32.1	20.8	0	4	0
2023-01-30 09:00	26.1	32	22.4	0	4.1	0
2023-01-31 09:00	24.2	30	21.6	0	4.1	16.8

Historical Reports



User: LCC Comp anca

Report Generated on: 2023/03/15 13:57

Report **BQ - Monthly Weather Data - February 2023**

Select Report Criteria

Period

Specific Start and End Dates

Weather Station(s)

Lismore

Report Type

Grid Report

Lower Guide

Value Text

Colour White

Start Date and Time

yyyy-mm-dd
2023-02-01 00:00

Memory

Display Summary

Graph Type

Bar

Upper Guide

Value Text

Colour White

End Date and Time

yyyy-mm-dd
2023-02-28 23:59

Sensor(s)

AVERAGE Air Temperature 10m, MAXIMUM Air Temperature 10m, MINIMUM Air Temperature 10m, S THETA Wind Direction 10m, STDEV Wind Speed 10m, TOTAL Rain Gauge

Summarize

Daily

☒ Auto Y-Axis Scale

Min Value Max Value

Save Report

Report Name **BQ - Monthly Weather Data - February 2023**

BQ - Monthly Weather Data - February 2023

Date	Lismore AVERAGE Air Temperature 10m DegC	Lismore MAXIMUM Air Temperature 10m DegC	Lismore MINIMUM Air Temperature 10m DegC	Lismore S THETA Wind Direction 10m Degs	Lismore STDEV Wind Speed 10m km/h	Lismore TOTAL Rain Gauge mm
2023-02-01 08:00	23.7	31.1	21	0	2.3	50.2
2023-02-02 08:00	24.8	29.8	21.8	0	2.3	0
2023-02-03 08:00	25.1	30.8	21.6	0	4.4	0
2023-02-04 08:00	29.6	35	25.6	0	4	0
2023-02-05 08:00	25	28.5	21.7	0	3.1	0
2023-02-06 08:00	23.9	29.9	18.4	0	3.5	0
2023-02-07 08:00	23.2	28.4	18.3	0	3.3	0
2023-02-08 08:00	22.5	29.5	17.8	0	2.7	0
2023-02-09 08:00	22.5	27.3	18	0	2.6	0.4
2023-02-10 08:00	21.4	28.1	16.9	0	2.8	0.2
2023-02-11 08:00	22.6	28.9	17.5	0	2.6	0
2023-02-12 08:00	24.2	31.4	18.4	0	2.3	0
2023-02-13 08:00	27.7	38.8	22.1	0	3.9	1
2023-02-14 08:00	23.1	27.7	20.5	0	3	13
2023-02-15 08:00	21.1	28.8	18.5	0	2.7	25.4
2023-02-16 08:00	20.5	25.8	15.9	0	2.7	0
2023-02-17 08:00	21.2	27.1	16	0	2.3	0.2
2023-02-18 08:00	22.2	28.5	16.7	0	2.8	0
2023-02-19 08:00	23.5	30.6	18.3	0	4	0
2023-02-20 08:00	23.4	29.2	18.8	0	3.4	0
2023-02-21 08:00	22.8	27.6	18.1	0	3.6	0.8
2023-02-22 08:00	21.4	25.8	17.9	0	2.3	3.4
2023-02-23 08:00	21.9	28.9	18.3	0	3.3	0.2
2023-02-24 08:00	19.8	28.9	17.4	0	3	20.8
2023-02-25 08:00	18.9	23	17	0	1.9	3.8
2023-02-26 08:00	20.7	26.6	15.9	0	2.2	0
2023-02-27 08:00	22.8	28.3	18.4	0	3.7	0.2
2023-02-28 08:00	24.6	31.9	19.9	0	3.4	0

Historical Reports



User: LCC Quamy

Report Generated on: 2023/05/17 10:54

Report **BQ - Monthly Weather Data**

Select Report Criteria

Period

Specific Start and End Dates

Weather Station(s)

Lismore

Report Type

Grid Report

Lower Guide

Value Text

Colour White

Start Date and Time

yyyy-mm-dd
2023-3-01 00:00

Memory

Display Summary

Graph Type

Bar

Upper Guide

Value Text

Colour White

End Date and Time

yyyy-mm-dd
2023-03-31 23:59

Sensor(s)

AVERAGE Air Temperature 10m, MAXIMUM Air Temperature 10m, MINIMUM Air Temperature 10m, S THETA Wind Direction on 10m, STDEV Wind Speed 10m, TOTAL Rain Gauge

Summarize

Daily

☒ Auto Y-Axis Scale

Min Value Max Value

Save Report

Report Name **BQ - Monthly Weather Data**

BQ - Monthly Weather Data

Date	Lismore AVERAGE Air Temperature 10m DegC	Lismore MAXIMUM Air Temperature 10m DegC	Lismore MINIMUM Air Temperature 10m DegC	Lismore S THETA Wind Direction 10m Degs	Lismore STDEV Wind Speed 10m km/h	Lismore TOTAL Rain Gauge mm
2023-03-01 09:00	23.8	28.8	20	0	3.6	0
2023-03-02 09:00	24.7	33	19.1	0	4.4	12.8
2023-03-03 09:00	21.3	24.5	18.5	0	1.6	75.8
2023-03-04 09:00	21.3	26.1	17.3	0	2.8	4.2
2023-03-05 09:00	20.9	26.4	17.3	0	3.2	1.2
2023-03-06 09:00	22.4	27.6	17.6	0	3.1	0.2
2023-03-07 09:00	24.8	31.2	20.5	0	2.9	0
2023-03-08 09:00	27.4	33.1	23.4	0	1.9	0
2023-03-09 09:00	26.9	29	24.1	0	1.8	0
2023-03-10 09:00	23.4	28.9	20.8	0	1.8	0
2023-03-11 09:00	22.9	26.7	20.7	0	2.6	0.4
2023-03-12 09:00	23.8	28.3	21.4	0	2.7	0.8
2023-03-13 09:00	22.3	27.7	20.5	0	2.1	17.6
2023-03-14 09:00	21.7	28.2	19.6	0	1.9	8.2
2023-03-15 09:00	23.3	28.9	19.6	0	1.7	0
2023-03-16 09:00	24.1	31.8	20.9	65.7	2.5	1.6
2023-03-17 09:00	26	33.1	21.6	74.6	2.8	0.2
2023-03-18 09:00	26.4	36.1	20.1	85.5	2.4	0
2023-03-19 09:00	24.4	32	20	89.5	3	0
2023-03-20 09:00	24.6	31.4	19.2	63.3	3.4	0
2023-03-21 09:00	23.9	31.1	19.8	90.8	2.6	0
2023-03-22 09:00	20.5	24.6	18.6	66.9	2.3	10.6
2023-03-23 09:00	21.5	24.6	18.7	95.8	1.6	0
2023-03-24 09:00	22	27.2	17.8	68.4	3.2	1.4
2023-03-25 09:00	22.9	29.6	16.1	96.3	2.3	0
2023-03-26 09:00	21.9	29.6	18.7	83.6	2.7	13.6
2023-03-27 09:00	21.4	27	18.2	96.2	1.4	0.2
2023-03-28 09:00	23.7	29.2	19.9	68.7	2.5	0.2
2023-03-29 09:00	24	30.2	19.5	98.6	1.6	0.2
2023-03-30 09:00	21	22.9	19.2	62.6	2.3	12.2
2023-03-31 09:00	21.8	28.1	14.6	66.8	1.5	0.2

Historical Reports



User: LCC Quarry

Report Generated on: 2023/05/17 10:55

Report **BQ - Monthly Weather Data**

Select Report Criteria

Period

Specific Start and End Dates

Weather Station(s)

Lismore

Report Type

Grid Report

Lower Guide

Value Text

Colour White

Start Date and Time

yyyy-mm-dd
2023-4-01 00:00

Memory

Display Summary

Graph Type

Bar

Upper Guide

Value Text

Colour White

End Date and Time

yyyy-mm-dd
2023-04-30 23:59

Sensor(s)

AVERAGE Air Temperature 10m, MAXIMUM Air Temperature 10m, MINIMUM Air Temperature 10m, S THETA Wind Direction 10m, STDEV Wind Speed 10m, TOTAL Rain Gauge

Summarize

Daily

☒ Auto Y-Axis Scale

Min Value Max Value

Save Report

Report Name **BQ - Monthly Weather Data**

BQ - Monthly Weather Data

Date	Lismore AVERAGE Air Temperature 10m DegC	Lismore MAXIMUM Air Temperature 10m DegC	Lismore MINIMUM Air Temperature 10m DegC	Lismore S THETA Wind Direction 10m Degs	Lismore STDEV Wind Speed 10m km/h	Lismore TOTAL Rain Gauge mm
2023-04-01 09:00	19.4	24.9	15.6	80.7	1.5	0
2023-04-02 09:00	18.4	23.2	13.6	81.5	1.1	0
2023-04-03 09:00	19.5	25.2	16.2	56.8	2.3	0
2023-04-04 09:00	18.2	23	16.6	67.3	1.8	17.8
2023-04-05 09:00	19.6	24.5	16.3	74.3	1.6	0.4
2023-04-06 09:00	20.5	27.3	16.3	70	2.1	0
2023-04-07 09:00	19.3	25	15.6	90.5	1.6	0
2023-04-08 09:00	21.3	25.7	18.9	65.2	2.9	3
2023-04-09 09:00	21.6	26.6	17.1	55.3	2.7	0.2
2023-04-10 09:00	20.4	26.1	14.8	62.8	2.5	0
2023-04-11 09:00	18.6	25.6	12.1	60.7	2.5	0
2023-04-12 09:00	17.8	25.2	11.6	77.5	1.8	0
2023-04-13 09:00	19.7	26.8	13.3	76.8	1.7	0
2023-04-14 09:00	18.9	26.2	13.6	78.3	1.7	0
2023-04-15 09:00	18.8	24.8	14.2	87.5	1.9	0
2023-04-16 09:00	20.7	25.9	16.5	79.9	3.8	0
2023-04-17 09:00	23.7	29.4	19.1	79.9	2	0
2023-04-18 09:00	19.5	24	15.8	55.3	2.3	0.6
2023-04-19 09:00	19	24.9	15.1	82.9	2.4	0.8
2023-04-20 09:00	19.3	25.7	15.1	57.4	2	0
2023-04-21 09:00	18.3	24.9	15.3	61.5	1.9	17.4
2023-04-22 09:00	16.4	19.9	14.6	50.4	1.7	12.6
2023-04-23 09:00	17.5	22.8	13.6	52.5	2	1
2023-04-24 09:00	18.2	23.7	15.2	64.9	3.1	13.4
2023-04-25 09:00	18.2	23.5	14.9	66.9	3.4	7
2023-04-26 09:00	17	21.9	15	66.7	1.8	3.6
2023-04-27 09:00	17.8	22.4	15.6	73.2	2.8	15.8
2023-04-28 09:00	17.7	22.5	16	72.6	1.3	8
2023-04-29 09:00	17.3	23.6	11.7	76.9	1.7	0.2
2023-04-30 09:00	19.2	23.9	14.8	78	2.5	2.2

Historical Reports



User: LCC Quarry

Report Generated on: 2023/06/06 10:53

Report **BQ - Monthly Weather Data**

Select Report Criteria

Period

Specific Start and End Dates

Weather Station(s)

Lismore

Report Type

Grid Report

Lower Guide

Value

Text

Colour

White

Start Date and Time

yyyy-mm-dd

2023-5-01 00:00

Memory

Display Summary

Graph Type

Bar

Upper Guide

Value

Text

Colour

White

End Date and Time

yyyy-mm-dd

2023-05-31 23:59

Sensor(s)

AVERAGE Air Temperature 10m, MAXIMUM Air Temperature 10m, MINIMUM Air Temperature 10m, S THETA Wind Direction 10m, STDEV Wind Speed 10m, TOTAL Rain Gauge

Summarize

Daily

☒ Auto Y-Axis Scale

Min Value

Max Value

Save Report

Report Name **BQ - Monthly Weather Data**

BQ - Monthly Weather Data

Date	Lismore AVERAGE Air Temperature 10m DegC	Lismore MAXIMUM Air Temperature 10m DegC	Lismore MINIMUM Air Temperature 10m DegC	Lismore S THETA Wind Direction 10m Degs	Lismore STDEV Wind Speed 10m km/h	Lismore TOTAL Rain Gauge mm
2023-05-01 09:00	18	23.9	12.7	69.2	1.5	0
2023-05-02 09:00	16.8	22.6	11.9	69.7	1.5	0
2023-05-03 09:00	17.6	22.7	13.7	66.4	1.4	0
2023-05-04 09:00	18.9	24.8	13.4	55.2	1.5	0
2023-05-05 09:00	18	24.3	13.2	89	2.1	0
2023-05-06 09:00	16.6	23.5	11.5	60.5	1.8	0
2023-05-07 09:00	19.1	24.6	15.3	71.3	3	0
2023-05-08 09:00	16.4	24.8	9.1	71.1	2.1	0
2023-05-09 09:00	13.8	20.8	8.5	59.3	1.8	0
2023-05-10 09:00	14.9	21.2	9.8	82.3	1.5	0
2023-05-11 09:00	15.9	21.3	12.6	74.9	2.1	0
2023-05-12 09:00	15.2	20.3	11.5	83.2	1.7	0.4
2023-05-13 09:00	15.1	21.4	10.5	86.4	1.4	1
2023-05-14 09:00	15.7	21.7	12.4	87.4	1.8	3.2
2023-05-15 09:00	15.4	20.1	13.8	77.3	1.5	16.4
2023-05-16 09:00	16.4	18.5	15	84.9	1.3	70.2
2023-05-17 09:00	14.6	16.2	13.8	49.5	1	10.6
2023-05-18 09:00	14.4	19.9	9.6	77.5	1.6	0.2
2023-05-19 09:00	13.6	20	8.5	77.8	1.4	0.2
2023-05-20 09:00	13.1	19.8	7.7	79.2	1	0
2023-05-21 09:00	14.7	20.9	9.5	73.3	1.4	0.2
2023-05-22 09:00	15	20.3	9.6	56.9	2.2	0
2023-05-23 09:00	13.6	20.8	7.6	75.6	1.3	0
2023-05-24 09:00	14.3	21.9	8.3	56.3	1.7	0
2023-05-25 09:00	14.8	21.9	3.8	62.8	2	0
2023-05-26 09:00	17.2	23.7	13.3	41.7	2	0.2
2023-05-27 09:00	16.5	23.4	11.2	64.4	2.4	0
2023-05-28 09:00	13.8	20.7	8.4	82.4	1	0
2023-05-29 09:00	14.5	21.2	8.6	68.4	1.6	0
2023-05-30 09:00	13.8	20.3	8.4	65.2	1.2	0
2023-05-31 09:00	14.4	21.3	9	47.7	1.3	0

Report: BQ - Monthly Weather Data

Weather Station: Lismore

Memory: Daily Summary

Period: Specific Start and End Dates

Report run on: 11/07/2023 8:30:00 AM

Site Name	Date	AVERAGE A	MAXIMUM	MINIMUM	S-THETA	W	STDEV	Win	TOTAL Rain
Lismore	01/06/2023 9:00	17.2	23	12.9	50.5	1.8		0	
Lismore	02/06/2023 9:00	16.6	24.1	10.3	74.5	1.6		0	
Lismore	03/06/2023 9:00	16.2	22.2	10.6	79.7	1.4		0	
Lismore	04/06/2023 9:00	17	23.2	12.7	86	2.1		0	
Lismore	05/06/2023 9:00	15.9	17.2	14.5	60.6	1.6		10.6	
Lismore	06/06/2023 9:00	15.1	19.2	13	74.8	2		0.8	
Lismore	07/06/2023 9:00	14.9	18.3	13.3	72.4	1.3		0.4	
Lismore	08/06/2023 9:00	14.9	20.3	10.4	82	1.1		0.2	
Lismore	09/06/2023 9:00	17.1	22.1	12.2	58.5	2.5		0	
Lismore	10/06/2023 9:00	14.5	21.5	8	64	1.3		0	
Lismore	11/06/2023 9:00	14.2	21.3	8.9	67.3	1.2		0	
Lismore	12/06/2023 9:00	14.6	21.9	8.4	73.2	1.7		0	
Lismore	13/06/2023 9:00	15.3	22.1	10.2	82.7	2.2		0.2	
Lismore	14/06/2023 9:00	17.1	23.1	11.8	53.9	2.1		0.2	
Lismore	15/06/2023 9:00	15	22.9	7.5	72.9	1.6		0	
Lismore	16/06/2023 9:00	11.9	19.5	6.1	71.5	1.2		0	
Lismore	17/06/2023 9:00	12.7	19.5	8.5	80.6	1.3		0	
Lismore	18/06/2023 9:00	13.5	20	7.9	61.8	1.7		0	
Lismore	19/06/2023 9:00	16.4	22.3	11.8	50.4	1.8		0	
Lismore	20/06/2023 9:00	14.8	21.1	9.1	69.9	1.5		0	
Lismore	21/06/2023 9:00	10.7	17.4	4.6	81.5	1.1		0	
Lismore	22/06/2023 9:00	11.2	18.2	6.3	80	1.1		0	
Lismore	23/06/2023 9:00	14.6	19.4	9.2	74.8	2.3		0.8	
Lismore	24/06/2023 9:00	16.5	22.4	10.4	72.8	2.7		0	
Lismore	25/06/2023 9:00	15.8	22.6	10	55	1.5		0	
Lismore	26/06/2023 9:00	19.3	27	12.2	73.4	2.1		0	
Lismore	27/06/2023 9:00	16.5	23.7	10.4	58.4	2		0	
Lismore	28/06/2023 9:00	14.2	20.6	9.9	74.5	1.6		0	
Lismore	29/06/2023 9:00	19.3	24.9	12.9	82.4	1.9		0	
Lismore	30/06/2023 9:00	13.4	20.4	6.5	91.9	1.5		0	

\END OF DATA

| Gauge - mm

Report: BQ - Monthly Weather Data

Weather Station: Lismore

Memory: Daily Summary

Period: Specific Start and End Dates

Report run on: 3/08/2023 11:22:16 AM

Site Name	Date	AVERAGE A	MAXIMUM	MINIMUM	S-THETA W	STDEV Win	TOTAL Rain
Lismore	01/07/2023 9:00	12.1	20	6.5	66.1	1.8	0
Lismore	02/07/2023 9:00	13.1	19.7	8.8	80.1	1.4	0
Lismore	03/07/2023 9:00	14.4	19.3	11.9	70.5	2.1	0.8
Lismore	04/07/2023 9:00	14.2	16.6	12.3	69	0.8	4.2
Lismore	05/07/2023 9:00	14.9	17.6	12.8	102.5	1.6	6.8
Lismore	06/07/2023 9:00	16.1	23.1	9.6	71.4	1.6	0
Lismore	07/07/2023 9:00	16.7	22.3	12.5	62.2	2.1	0
Lismore	08/07/2023 9:00	14.7	20.8	9.6	63.7	2.2	0
Lismore	09/07/2023 9:00	15	20.8	10.2	68.5	1.9	0
Lismore	10/07/2023 9:00	13.8	20.9	8.4	58.3	1.8	0
Lismore	11/07/2023 9:00	14.4	22	8.3	67.5	1.7	0
Lismore	12/07/2023 9:00	14.6	22.8	9.9	80.4	1.8	0
Lismore	13/07/2023 9:00	13.7	19.4	8.6	87.6	1.2	0
Lismore	14/07/2023 9:00	13.6	21.3	7.8	65.2	1.8	0.2
Lismore	15/07/2023 9:00	15.3	21.1	10.2	52.8	2.6	0
Lismore	16/07/2023 9:00	15.8	22.3	10.1	43.1	2.6	0
Lismore	17/07/2023 9:00	16	23.8	11.6	85.4	1.5	0
Lismore	18/07/2023 9:00	14.4	19.4	12.2	96.1	1.7	4.6
Lismore	19/07/2023 9:00	14.2	17.2	10.3	69.4	1.1	0.4
Lismore	20/07/2023 9:00	13.4	21.3	7.5	90.2	1.9	0
Lismore	21/07/2023 9:00	13.6	20.4	8.1	72.6	1.7	0.2
Lismore	22/07/2023 9:00	14.8	24.2	7.9	89.5	1.6	1.4
Lismore	23/07/2023 9:00	12.5	19.7	7	84.7	1.4	0
Lismore	24/07/2023 9:00	14	19.9	10.4	60.9	1.8	0.8
Lismore	25/07/2023 9:00	13.2	19.2	9.1	73.3	2.2	0.4
Lismore	26/07/2023 9:00	14.4	20	11.1	85.7	2.4	2.2
Lismore	27/07/2023 9:00	13.1	17.8	9	76	1.1	0.4
Lismore	28/07/2023 9:00	13.5	19.7	8.2	61.4	1.5	0
Lismore	29/07/2023 9:00	15.8	22	10.5	52.5	2.5	0
Lismore	30/07/2023 9:00	16.7	24.6	10.4	66.8	2.1	0
Lismore	31/07/2023 9:00	19.7	25	16.8	60	2.3	0

\END OF DATA

| Gauge - mm

Historical Reports



User: LCC Quamy

Report Generated on: 2023/09/07 11:24

Report **BQ - Monthly Weather Data**

Select Report Criteria

Period

Specific Start and End Dates

Weather Station(s)

Lismore

Report Type

Grid Report

Lower Guide

Value

Text

Colour

White

Start Date and Time

yyyy-mm-dd

2023-08-01

00:00

Memory

Day Summary

Graph Type

Bar

Upper Guide

Value

Text

Colour

White

End Date and Time

yyyy-mm-dd

2023-08-31

23:59

Sensor(s)

AVERAGE Air Temperature 10m, MAXIMUM Air Temperature 10m, MINIMUM Air Temperature 10m, S THETA Wind Direction on 10m, STDEV Wind Speed 10m, TOTAL Rain Gauge

Summarize

Daily

☒ Auto Y-Axis Scale

Min Value

Max Value

Save Report

Report Name **BQ - Monthly Weather Data**

BQ - Monthly Weather Data

Date	Lismore AVERAGE Air Temperature 10m DegC	Lismore MAXIMUM Air Temperature 10m DegC	Lismore MINIMUM Air Temperature 10m DegC	Lismore S THETA Wind Direction 10m Degs	Lismore STDEV Wind Speed 10m km/h	Lismore TOTAL Rain Gauge mm
2023-08-01 09:00	16.8	27.1	13.9	89	2.4	0
2023-08-02 09:00	17	24	12	87.6	2.3	0
2023-08-03 09:00	15	21.3	11.3	94.9	2.6	6.2
2023-08-04 09:00	14.3	19.3	10.6	98.1	1.8	0.4
2023-08-05 09:00	14.6	19.7	12.3	84.3	1.4	0.2
2023-08-06 09:00	14.1	20.2	9	66.2	1.9	0.2
2023-08-07 09:00	15.2	19.9	12.3	79.7	1.9	0.8
2023-08-08 09:00	13.8	19.9	11.5	60.4	2.1	8.2
2023-08-09 09:00	14	18.5	10.1	58	1.6	0.4
2023-08-10 09:00	13.5	20.5	8.2	76.7	1.8	0.2
2023-08-11 09:00	16.8	23	11.8	54.6	2.7	0
2023-08-12 09:00	17.4	26.4	12.6	77.9	2.9	0
2023-08-13 09:00	19.1	26.6	12.3	62.4	1.6	0
2023-08-14 09:00	17.4	25	12.2	85.2	3	0
2023-08-15 09:00	20.6	28.7	15.1	80.8	2.4	0
2023-08-16 09:00	15.9	21.6	12.7	78.3	2.4	4.4
2023-08-17 09:00	15.3	21.8	11	101	1.6	0.2
2023-08-18 09:00	16.5	23.5	13.8	85.1	2.4	0.6
2023-08-19 09:00	17.7	24.4	11.5	47.8	3.1	0
2023-08-20 09:00	14.8	20.7	9.1	67.7	1.6	0
2023-08-21 09:00	14.8	22.1	9.4	71.3	2.3	0
2023-08-22 09:00	17.1	23.8	11.7	66.4	3.4	0
2023-08-23 09:00	19.7	26.6	13.8	54.3	2.6	0
2023-08-24 09:00	19.9	28.3	13.6	56.6	2.4	0
2023-08-25 09:00	15.4	21.6	10.8	77.8	2.5	0
2023-08-26 09:00	14.8	22	9.1	85.9	2	0
2023-08-27 09:00	15.5	21.1	12.2	78.5	2.2	0
2023-08-28 09:00	16.1	21.6	12.4	90.3	2.2	0
2023-08-29 09:00	16	22.3	11.1	96.3	2.3	5
2023-08-30 09:00	16.8	23.4	11	87.4	3.4	0
2023-08-31 09:00	16.2	24.1	11.9	76.4	3.6	7.6

Historical Reports



User: LCC Quarry

Report Generated on: 2023/10/05 08:00

Report **BQ - Monthly Weather Data**

Select Report Criteria

Period

Specific Start and End Dates

Weather Station(s)

Lismore

Report Type

Grid Report

Lower Guide

Value

Text

Colour

White

Start Date and Time

yyyy-mm-dd

2023-09-01 00:00

Memory

Display Summary

Graph Type

Bar

Upper Guide

Value

Text

Colour

White

End Date and Time

yyyy-mm-dd

2023-09-30 23:59

Sensor(s)

AVERAGE Air Temperature 10m, MAXIMUM Air Temperature 10m, MINIMUM Air Temperature 10m, S THETA Wind Direction 10m, STDEV Wind Speed 10m, TOTAL Rain Gauge

Summarize

Daily

☒ Auto Y-Axis Scale

Min Value

Max Value

Save Report

Report Name **BQ - Monthly Weather Data**

BQ - Monthly Weather Data

Date	Lismore AVERAGE Air Temperature 10m DegC	Lismore MAXIMUM Air Temperature 10m DegC	Lismore MINIMUM Air Temperature 10m DegC	Lismore S THETA Wind Direction 10m Degs	Lismore STDEV Wind Speed 10m km/h	Lismore TOTAL Rain Gauge mm
2023-09-01 09:00	17.7	26	12.3	71.6	2.2	1.6
2023-09-02 09:00	17.7	25.6	12.1	76	2.5	0.2
2023-09-03 09:00	16.3	21.7	12.9	94.8	2.5	0
2023-09-04 09:00	17.8	24.5	14.3	97.5	3.9	2
2023-09-05 09:00	18.9	22.9	15	56.7	2.3	0.4
2023-09-06 09:00	23.3	29.7	17.8	89.2	3.2	0.4
2023-09-07 09:00	17.8	24.3	12.5	77.7	2.7	0
2023-09-08 09:00	21.1	27.9	16.1	67.9	3.7	0
2023-09-09 09:00	19.8	27.5	11.3	77.7	4.6	0
2023-09-10 09:00	14.6	23.1	8.3	83.3	2.4	0
2023-09-11 09:00	14.6	19.9	10.6	75.2	2.8	4.2
2023-09-12 09:00	13.2	17.3	9.7	91.8	1.8	1
2023-09-13 09:00	15.1	21.9	9.9	79.4	2.1	0.2
2023-09-14 09:00	16.2	24.7	9.8	83.6	2.5	0.8
2023-09-15 09:00	15.5	22.5	9.3	85.4	2.6	0.2
2023-09-16 09:00	16.3	23.3	10.1	84.7	2.9	0
2023-09-17 09:00	18.2	25.4	12.7	58.7	3.5	0
2023-09-18 09:00	19.5	28.6	12.8	67.5	3.3	0
2023-09-19 09:00	19.2	27.8	12.9	61.4	4.3	0
2023-09-20 09:00	18.6	25	13.5	53.8	4.6	0
2023-09-21 09:00	23.5	30.7	18.7	45.2	2.2	0
2023-09-22 09:00	22.3	35.5	16.3	66.2	3	0
2023-09-23 09:00	15.8	20.1	11.6	54.5	3.3	0.2
2023-09-24 09:00	15.6	22.1	12.5	64.6	3.1	2
2023-09-25 09:00	16.2	20	12.5	89.5	2.5	0
2023-09-26 09:00	17.1	24.4	11.1	84	3.6	0
2023-09-27 09:00	20.1	28.8	13.8	61.7	3.3	0
2023-09-28 09:00	23.7	31.7	18.5	87.4	3	0
2023-09-29 09:00	16.4	19.4	12.3	91.6	2.4	16.2
2023-09-30 09:00	19.5	26.7	14.3	62.9	3	0

Historical Reports



User: LCC Quarry

Report Generated on: 2023/11/10 09:01

Report **BQ - Monthly Weather Data**

Select Report Criteria

Period

Specific Start and End Dates

Weather Station(s)

Lismore

Report Type

Grid Report

Lower Guide

Value Text

Colour White

Start Date and Time

yyyy-mm-dd
2023-10-01 00:00

Memory

Day Summary

Graph Type

Bar

Upper Guide

Value Text

Colour White

End Date and Time

yyyy-mm-dd
2023-10-31 23:59

Sensor(s)

AVERAGE Air Temperature 10m, MAXIMUM Air Temperature 10m, MINIMUM Air Temperature 10m, S THETA Wind Direction 10m, STDEV Wind Speed 10m, TOTAL Rain Gauge

Summarize

Daily

☒ Auto Y-Axis Scale

Min Value Max Value

Save Report

Report Name **BQ - Monthly Weather Data**

BQ - Monthly Weather Data

Date	Lismore AVERAGE Air Temperature 10m DegC	Lismore MAXIMUM Air Temperature 10m DegC	Lismore MINIMUM Air Temperature 10m DegC	Lismore S THETA Wind Direction 10m Degs	Lismore STDEV Wind Speed 10m km/h	Lismore TOTAL Rain Gauge mm
2023-10-01 09:00	21.1	29	15.4	76.6	4.3	0
2023-10-02 09:00	21.7	29.9	15.2	46.6	3.6	0
2023-10-03 09:00	21.9	31.2	14.9	77.8	2.8	0
2023-10-04 09:00	21.4	28.1	16.1	46.6	4.1	0
2023-10-05 09:00	21.9	26	16	59	6.6	0
2023-10-06 09:00	20.3	28.7	15	61.1	2.5	0
2023-10-07 09:00	17.7	23	13.8	65.7	2.6	0.2
2023-10-08 09:00	15.6	20.4	12	55.6	3.1	3.2
2023-10-09 09:00	14.9	20	10.3	93.1	2.3	2.4
2023-10-10 09:00	17.5	22.9	12.2	72.6	3.9	0
2023-10-11 09:00	20.4	27	15.9	75.1	4.5	0
2023-10-12 09:00	20.2	27.3	14.2	63.8	4.6	0
2023-10-13 09:00	22.9	29.5	19	54.7	3.5	0
2023-10-14 09:00	20.2	28.4	14.2	85.4	4.1	0
2023-10-15 09:00	20.8	27.4	15.5	68.1	4.8	0
2023-10-16 09:00	24.4	31.2	20.2	82.9	4	0
2023-10-17 09:00	24.5	34.6	14.4	79.5	3.5	0
2023-10-18 09:00	16	24.5	14.1	54.9	3.8	0
2023-10-19 09:00	16.2	20.4	13.4	60.6	2.5	1.2
2023-10-20 09:00	16	23.7	14.1	81	2.5	0
2023-10-21 09:00	19.4	26.2	14.2	75.4	3.1	0
2023-10-22 09:00	21	27.7	16.4	68.8	4.9	0
2023-10-23 09:00	25.6	34.3	19.6	56.1	3.5	0
2023-10-24 09:00	25.4	33.9	21.3	94.3	4.3	0
2023-10-25 09:00	24.9	32.8	19.8	60.1	4.3	0
2023-10-26 09:00	27.2	37.1	20.2	62.1	3.6	0
2023-10-27 09:00	17.9	25.3	14	54.2	2.5	46.2
2023-10-28 09:00	13.7	16.7	12	52.7	1.9	36.8
2023-10-29 09:00	16.1	22	12.2	78.2	3	0.2
2023-10-30 09:00	17.1	22.1	12.2	58.7	4.2	0
2023-10-31 09:00	22.6	28.8	16.2	53.3	3.4	0

Historical Reports



User: LCC Quamy

Report Generated on: 2023/12/06 12:24

Report **BQ - Monthly Weather Data**

Select Report Criteria

Period

Specific Start and End Dates

Weather Station(s)

Lismore

Report Type

Grid Report

Lower Guide

Value Text

Colour White

Start Date and Time

yyyy-mm-dd
2023-11-01 00:00

Memory

Display Summary

Graph Type

Bar

Upper Guide

Value Text

Colour White

End Date and Time

yyyy-mm-dd
2023-11-30 23:59

Sensor(s)

AVERAGE Air Temperature 10m, MAXIMUM Air Temperature 10m, MINIMUM Air Temperature 10m, S THETA Wind Direction 10m, STDEV Wind Speed 10m, TOTAL Rain Gauge

Summarize

Daily

☒ Auto Y-Axis Scale

Min Value Max Value

Save Report

Report Name **BQ - Monthly Weather Data**

BQ - Monthly Weather Data

Date	Lismore AVERAGE Air Temperature 10m DegC	Lismore MAXIMUM Air Temperature 10m DegC	Lismore MINIMUM Air Temperature 10m DegC	Lismore S THETA Wind Direction 10m Degs	Lismore STDEV Wind Speed 10m km/h	Lismore TOTAL Rain Gauge mm
2023-11-01 09:00	25.8	34.8	18.5	64.4	3.2	0
2023-11-02 09:00	18.1	21.7	14.7	102.1	3	0
2023-11-03 09:00	18.6	24	13.6	61.8	3.5	0
2023-11-04 09:00	17.7	23.1	14.9	78.7	3.9	13.2
2023-11-05 09:00	18.9	23.9	16.2	84.7	4.8	14.6
2023-11-06 09:00	18.6	19.2	15.1	85.8	2.3	15.4
2023-11-07 09:00	16.2	19.8	13.7	83.3	1.8	3
2023-11-08 09:00	18.1	23.6	13.5	68.4	3.6	0
2023-11-09 09:00	19.7	24.1	15.3	62.7	4.6	0
2023-11-10 09:00	21	26.3	16.8	65.3	4.2	0
2023-11-11 09:00	17.1	24.3	13.7	88.3	3.8	18.4
2023-11-12 09:00	20.1	24.4	16.3	77.4	4.7	0
2023-11-13 09:00	23.1	28.4	18.9	57.8	3.1	0
2023-11-14 09:00	20.9	26.1	17.8	80.1	3.2	0
2023-11-15 09:00	22.2	28.5	18.4	71.3	4.9	0
2023-11-16 09:00	25.9	30.9	22.1	74.2	3	0
2023-11-17 09:00	25.5	35.4	20.8	99.8	3.6	2
2023-11-18 09:00	18.9	27.3	15.3	52.8	3.3	12.2
2023-11-19 09:00	18.3	23.9	13.1	87.3	2.8	0.2
2023-11-20 09:00	21.7	28.3	19.2	43.1	4.1	0
2023-11-21 09:00	17.9	21.6	16.2	70.4	5.2	17.6
2023-11-22 09:00	21.8	26.2	18.3	66.2	4.1	0.6
2023-11-23 09:00	21.8	26.1	16.1	54.9	3.7	0.2
2023-11-24 09:00	20.9	25.4	17.3	80	3.6	0.4
2023-11-25 09:00	21.3	26.2	17.2	62.6	3.8	0
2023-11-26 09:00	20.9	23.7	17.2	64.3	2.6	0
2023-11-27 09:00	23.4	28.3	19.3	75.2	2.8	1.8
2023-11-28 09:00	23	32.2	18.4	95.2	3.8	6.8
2023-11-29 09:00	20.3	24.7	18.4	82.5	1.8	16.2
2023-11-30 09:00	23.8	28	21	61.4	3.2	3.2

Historical Reports



User: LCC Quarry

Report Generated on: 2024/01/15 09:46

Report **BQ - Monthly Weather Data**

Select Report Criteria

Period

Specific Start and End Dates

Weather Station(s)

Lismore

Report Type

Grid Report

Lower Guide

Value

Text

Colour

White

Start Date and Time

yyyy-mm-dd

2023-12-01

00:00

Memory

Day Summary

Graph Type

Bar

Upper Guide

Value

Text

Colour

White

End Date and Time

yyyy-mm-dd

2023-12-31

23:59

Sensor(s)

AVERAGE Air Temperature 10m, MAXIMUM Air Temperature 10m, MINIMUM Air Temperature 10m, S THETA Wind Direction on 10m, STDEV Wind Speed 10m, TOTAL Rain Gauge

Summarize

Daily

☒ Auto Y-Axis Scale

Min Value

Max Value

Save Report

Report Name **BQ - Monthly Weather Data**

BQ - Monthly Weather Data

Date	Lismore AVERAGE Air Temperature 10m DegC	Lismore MAXIMUM Air Temperature 10m DegC	Lismore MINIMUM Air Temperature 10m DegC	Lismore S THETA Wind Direction 10m Degs	Lismore STDEV Wind Speed 10m km/h	Lismore TOTAL Rain Gauge mm
2023-12-01 09:00	27.6	32.3	22.6	73.1	2.3	0
2023-12-02 09:00	25.8	34.6	20.4	75.6	3.1	3.2
2023-12-03 09:00	24.8	32.8	19.7	64.6	3	0.2
2023-12-04 09:00	25.4	32.4	20.3	95.9	4.2	0
2023-12-05 09:00	22.8	28.2	19.3	69	3.1	0
2023-12-06 09:00	23.1	30.3	18.6	67.3	3.9	0
2023-12-07 09:00	25.9	34.6	20.9	97.1	3.6	0
2023-12-08 09:00	24.5	32.3	19.7	85.2	4.3	0
2023-12-09 09:00	24.7	30.5	19.6	69.4	3.8	0
2023-12-10 09:00	24.1	29.9	18.7	70.3	4.9	0
2023-12-11 09:00	23.3	28.6	17.8	76.6	4.5	0
2023-12-12 09:00	23.1	28.5	17	61	4.4	0
2023-12-13 09:00	23.3	28.6	18.1	83.3	3.5	0
2023-12-14 09:00	24.8	29.7	20.9	54	3.6	0
2023-12-15 09:00	27.6	36	21.3	83.7	3	0.6
2023-12-16 09:00	24.1	34.1	19.3	78.6	2.6	1.2
2023-12-17 09:00	27	34.2	17.7	70.1	3.5	16.6
2023-12-18 09:00	25.4	30.4	21.6	99.7	3.2	0
2023-12-19 09:00	26.3	32.1	21.4	50.2	4.6	0
2023-12-20 09:00	25.3	31.6	19.5	45	3.8	0
2023-12-21 09:00	23.6	30.5	20	86	4	1.8
2023-12-22 09:00	20.3	26	18	67.6	2	41.2
2023-12-23 09:00	19.5	21.5	15.7	85.6	1.6	0.6
2023-12-24 09:00	22	28.2	18.3	81.4	3.8	14
2023-12-25 09:00	20.9	26.3	15.1	97.6	4.6	8
2023-12-26 09:00	24.5	33.3	18.7	78.1	4.1	3.6
2023-12-27 09:00	26.3	33.8	19.6	57.8	3.4	14.6
2023-12-28 09:00	27.3	34.1	20.8	48.6	2.3	0
2023-12-29 09:00	29.3	35.7	23.9	69.8	2.4	0
2023-12-30 09:00	27.2	36.3	21.2	92.8	4.1	0
2023-12-31 09:00	24.6	31.1	19.5	79.4	3.9	0



Appendix T

2022 Annual Site Water Balance

PROJECT
**ANNUAL SURFACE WATER
BALANCE - 2022
BLAKEBROOK QUARRY
BLAKEBROOK
NEW SOUTH WALES**

PREPARED FOR
LISMORE CITY COUNCIL

DATE
MARCH 2023

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SYNOPSIS This report details water balance modelling for the 2022 annual return period for Blakebrook Quarry, Blakebrook, New South Wales.

REVISION HISTORY

REVISION #	DATE	EDITION BY	APPROVED BY
1	03/23	S. Porter	E. Holton

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SUMMARY

Lismore City Council (LCC) commissioned Gilbert & Sutherland to prepare a water balance report for Blakebrook Quarry for the 2022 calendar year annual reporting period.

This water balance report uses estimates of quarry pit areas, catchment areas, water storage volumes and water usage that were in place during the reporting period. The model was developed to represent operational procedures at the site during 2022 (to the degree that these practices could be quantified).

The 2022 Annual Water Balance demonstrates that during this period, rainfall captured and stored within the quarry catchment provided sufficient supply for all on-site (non-potable) water usage. Further to this, the combination of site usage and losses of stored water to seepage and evaporation meant that no controlled (pumped) discharges to the nominated legal points of discharge were required during the reporting period.

Recommendations are contained within this report to allow for further improvements in the reliability of water balance modelling completed for the Blakebrook Quarry. It is recommended that LCC review and implement these measures to allow improvements in future reporting periods.

CONTENTS

1	Introduction	6
2	Model description and structure	7
2.1	Model structure	7
2.1.1	North Pit.....	7
2.1.2	South Pit	8
2.1.3	South-western catchments (SB1 & SB2).....	8
3	Model inputs and assumptions	10
3.1	Model inputs	10
3.1.1	Climate data	10
3.1.2	Catchment areas	11
3.1.3	Storage volumes.....	12
3.1.4	Water usage – main dam & sediment basins	14
3.1.5	Water usage – storage tank	15
3.1.6	Controlled discharge from sedimentation basins	16
3.2	Water balance calculations	16
3.2.1	Runoff	16
3.2.2	Evaporation	17
3.2.3	Seepage	17
3.2.4	Initial conditions	17
4	Results	18
4.1	Climate data summary	18
4.2	Northern catchment	18
4.2.1	Northern catchment sedimentation basin	18
4.2.2	Main Dam water balance	19
4.2.3	Main Tank water balance	19
4.3	Southern catchment.....	20
4.3.1	Southern catchment – quarry pit	20
4.4	South-western catchments	20
4.4.1	South-western catchment – sedimentation basin SB1	21

4.4.2	South-western catchment – sedimentation basin SB2	21
4.4.3	Water truck usage	22
5	Conclusions	24
6	Attachment 1 – Drawings.....	25
7	Attachment 2 – Figures.....	26

1 Introduction

This annual water balance report has been prepared to represent operational procedures in place during the 2022 calendar year (herein referred to as 'the Annual Return reporting period' and/or 'the current reporting period').

Gilbert & Sutherland's (G&S) '*Soil and Water Management Plan, Blakebrook Quarry, Blakebrook, New South Wales*' prepared for Lismore City Council (LCC) and dated February 2019, and the corresponding '*Site Water Balance, Blakebrook Quarry, Blakebrook, New South Wales*', prepared by G&S in February 2019, included a number of recommendations to improve operational and recording procedures on site with

respect to water management. Those recommendations are progressively being implemented on site and where possible, site records have been used to quantify water movement around the site. Where full implementation of some of the recommendations is yet to be achieved, some of the previous modelling assumptions have again been adopted for the current reporting period.

This water balance report uses estimates of quarry pit areas, catchment areas, water storage volumes, seepage rates and water usage that were in place during the reporting period. The model was developed to represent operational procedures employed at the site during 2022 (to the degree that these practices could be quantified).

2 Model description and structure

A spreadsheet-based water balance model was developed to examine the water flows in, within and out of the quarry development. The model defines the day-to-day site runoff, water storage volumes, water uses and stormwater discharges from the site. This day-to-day evaluation was then used to assess water supply and estimate annual discharges from the site.

The water balance model addresses discharge across three identified legal points of discharge (LPD), as shown on Drawing No. 12177-009 (in Attachment 1). LPD1 is currently the only licensed discharge point from the quarry. LPD2 and LPD3 are existing natural discharge points which G&S' *'Soil and Water management plan, Blakebrook Quarry, Blakebrook, New South Wales'* prepared for LCC and dated February 2019 (the SWMP) proposed to also be included as licensed discharge points for current and future quarry operations.

2.1 Model structure

The water balance was developed using a spreadsheet model, adopting a daily time-step for estimation of rainfall, runoff, collection, reuse and discharge of water from the site. The model specifically and solely addresses surface water flows within the site and excludes any consideration of groundwater interaction (with the exception of an allowance for seepage out of water storages on the site). It also excludes all potable water usage and wastewater discharge from the site.

The model is comprised of three separate 'modules' which, in general, operate independently with respect to water management within the site. These three modules are based on the three defined catchment areas and corresponding sedimentation basins shown on Drawings No. 12177-009 (in Attachment 1). These catchment areas are:

- North Pit
- South Pit
- South-western catchment 1 (SB1)

- South-western catchment 2 (SB2).

A summary of the management of surface water within each of the modelled modules is described herein.

2.1.1 North Pit

The North Pit has the largest catchment area, occupying the majority of the site. Most site water uses rely on surface water collected within the North Pit. The North Pit contains a sedimentation basin (for treatment of runoff) and the main water storage dam. The main dam provides the primary water storage on the site and is used for filling of a water cart for dust-suppression within the site and also for topping up the water storage tank. The tank is a secondary water storage and is used to supply all other (non-potable) site uses.

Runoff from the undisturbed upslope areas within this catchment is intercepted by a clean water diversion drain and conveyed around the northern end of the pit to LPD2. This diverted clean water has been excluded from the water balance model.

Runoff from the pit and all remaining upslope areas draining into the pit is collected in a single sedimentation basin, currently located in the north-west of the pit. This sediment basin only has sufficient capacity internally to cater for nuisance events. In all larger events, it is intended that runoff that exceeds the basin capacity will temporarily pond over the floor of the pit until it is either lost to seepage or treated and discharged. The sediment basin itself operates as a wet basin due to seepage into the basin from the surrounding rock. This seepage into the basin has not been quantified and is not reflected in the modelling beyond an assumption that the storage it occupies is not available for collection of rainfall or runoff.

Following rainfall, water collected in the sediment basin is required to be tested and treated (to meet the required water quality targets) before being discharged. Discharge from the basin is pumped to the main dam for reuse within the site. When the dam reaches capacity, excess treated water is to be pumped out of the sediment basin directly to LPD1. The upper portion of the sediment basin (including its temporary expansion over the quarry

floor following rainfall) is not sealed or lined and, due to the fractured nature of the rock, there is substantial and rapid seepage out of the basin. Quarry Management has advised that typically, all ponded water is lost (to seepage and evaporation) within a few days following rain and pumping of excess water directly to the LPD is rarely required and was not undertaken during the reporting period. Accordingly, the modelling has made no allowance for pumped discharge to the LPD in the 2022 reporting period.

The main dam is isolated from directly receiving site runoff to ensure that a clean water supply is maintained on site whenever possible. The dam is topped up by treated water from the sediment basin. The water is used directly for filling of a water cart for dust suppression, and indirectly for all other non-potable site uses by topping up the water storage tank. The dam is not lined and seepage has been observed to occur when it is close to full, however it appears to hold water in its lower stages and did not empty in the absence of top-up during the drier periods of the reporting period.

The water storage tank is used to supply the asphalt plant, sprinklers (for dust suppression on the haul road) and for maintaining product moisture during processing.

2.1.2 South Pit

The South Pit has a significantly smaller catchment area and, at present, runoff from this catchment is not required for water supply purposes. Accordingly, the management of surface water runoff in this catchment is focused on treatment and discharge to meet the site's water quality targets.

Runoff from a small undisturbed upslope area within this catchment is intercepted by a clean water diversion drain and conveyed around the north-western side of the pit to an adjacent ephemeral gully. This diverted clean water has been excluded from the water balance model.

Initial excavation works for the South Pit commenced in late 2014 under a temporary approval to service a specific state government

project. These initial works have been completed and further excavation works for the South Pit are currently on hold. During the reporting period, there was no further excavation or blasting works in the South Pit.

For the current extent of excavation, the South Pit is designed to operate as a sedimentation basin for treatment of runoff from the pit and contributing catchment area shown on Drawing No. 12177-009. Earthworks have been undertaken to direct all runoff from the disturbed upstream catchment (including the access road) to the pit.

During the reporting period, the South Pit is operated as a wet basin. Following rainfall, water collected in the South Pit remained within the pit unless lost to natural processes (evaporation and seepage). There was no pumping to discharge of collected water and the pit did not fill up or overflow.

For future expansion of the South Pit excavation, a separate sediment basin will be constructed within the floor of the pit to treat surface runoff in a contained area during treatment, to minimise disturbance of quarry operations for the period following a rainfall event. Any overflow from the basin, during events exceeding its design capacity, will be contained within the pit until the water is treated and discharged.

Subject to future approval of the additional site discharge points, it is intended that in the future excess treated water be pumped directly out to LPD3, a natural discharge point for the pre-quarry landform that is more suitable in proximity to the South Pit than the current licensed discharge point.

2.1.3 South-western catchments (SB1 & SB2)

The southwestern catchments (SB1 and SB2) are located outside of the quarry pit catchment areas and (similar to the South Pit) do not contribute to the site's water supply requirements. Both catchments discharge to LPD1. The management of surface water runoff in these catchments is

focused on treatment and discharge to meet the site's water quality targets.

During the reporting period, all catchment runoff was directed as surface flow to the respective basins. The sedimentation basins have been sized based on the design rainfall event for the site (60.2 mm in 5 days). Runoff up to the design event is intended to be treated and pumped out of the basins within 5 days of each rainfall event. G&S has been advised that there was one controlled discharge to the LPD throughout the reporting period and occurred following a 5-day rainfall event from SB1 via a siphoning hose. It is understood that this was an operations

misunderstanding at the time and the regulator was notified of that release. There was no further controlled discharge to the LPD during the reporting period as substantial seepage (exfiltration) occurs from these basins following rainfall events, thus rapidly reducing the volume of stored water. We understand that some water was extracted from SB1 and used on site for dust suppression or transferred to the main dam to be retained for future use. As these basins are not contained within the pits, catchment runoff during rainfall exceeding the design event was allowed to overflow from the basins and discharge directly to LPD1 in accordance with the design.

3 Model inputs and assumptions

3.1 Model inputs

The water balance model was run for the 2022 Annual Return period. Operational procedures relating to water management during this period are depicted on Drawing No. 12177-009 in Attachment 1. The adopted assumptions for the modelling are described herein.

3.1.1 Climate data

A weather station is installed at the quarry site and was operational throughout the entire reporting period. Whilst daily rainfall totals from the weather station were recorded, upon review of the data, it appears there are large discrepancies in rainfall for the months of February, April and May when compared to official Bureau of Meteorology weather stations in close proximity to the quarry. The total annual rainfall recorded from the site's weather station for the 2022 reporting period was 4,235 mm compared with totals of 1,582 mm to 3,043 mm at the closest 4 (four) BoM stations.

Daily time-step rainfall data was also sourced from SILO Data Drill for the quarry site and compared with the site records and BoM stations. For the SILO data, the total annual rainfall depth for 2022 was 2,553 mm, which is less than the total recorded at the site but comparable to the average of the four closest BoM stations. As discrepancies in the onsite data set could not be verified as accurate, SILO data was utilised for the purpose of the water balance assessment for this reporting period.

SILO data for the period from 1 January 1889 to 31 December 2022 was obtained from the Queensland Government Department of Science, Information Technology and Innovation (DSITI). This was used to quantify long-term rainfall patterns and also to provide estimates of evaporation from the waterbodies across the site.

An analysis of the SILO Data Drill annual rainfall totals for 1889 to 2022 was undertaken and the resulting statistics are shown in Table 3.1.1.1 below for comparison to rainfall during the return period.

Table 3.1.1.1 Rainfall statistics

Statistic	Annual rainfall (mm) - 1889 to 2022
Mean	1,490
Minimum	585
Maximum	2,553
Percentile bands	
5 th percentile	908
10 th percentile	1,043
20 th percentile	1,135
Median (50 th percentile)	1,426
80 th percentile	1,845
90 th percentile	2,128
95 th percentile	2,242

Based on the above analysis, 2022 is identified as the wettest year on record (or 100th percentile) with respect to total rainfall.

Daily rainfall and pan evaporation from SILO drill data were adopted as inputs for the model. The monthly rainfall and pan evaporation totals for the reporting period 2022 are compared to long-term monthly averages in Table 3.1.1.2.

Table 3.1.1.2 Comparison of 2022 reporting period monthly rainfall and pan evaporation to long-term averages

Month	Rainfall (mm)			Pan evaporation (mm)	
	Long -term average SILO (1889-2022)	Reporting period - SILO (2022)	Reporting period - Site (2022)	Long -term average (1970-2022)	Reporting period (2022)
January	181.1	243.5	252.4	174.8	143.6
February	214.5	893.5	2014.2	139.5	123
March	214.4	546.5	514.4	131.7	124.9
April	138.8	109.7	240.6	102.2	89.6
May	117.9	220.8	522	78.8	63.8
June	109.5	15.1	25.4	66.0	69.8
July	77.1	75.2	165.6	75.5	66.3
August	58.2	21.8	32.2	102.2	91.7
September	48.9	138.1	162.6	129.5	114.7
October	83.6	189.6	210.2	154.4	134.6
November	102.6	18.8	10.6	164.4	201.8
December	143.8	80.4	85.2	179.8	200.5
Annual total	1490.5	2553	4235.4	1498.7	1424.3

The distribution of rainfall throughout the reporting period was variable with respect to long-term averages. A comparison of the 2022 SILO drill data to the long-term average SILO data indicates that rainfall in the months of April, June, July, August, November and December was below average, whilst rainfall in the remaining months with the exception of January were substantially higher.

Rainfall recorded at the site was typically higher than the drill data for the majority of the reporting period, though a lower rainfall total was recorded on site in March and November. Rainfall totals recorded on site in February, April and May were substantially higher than the SILO data for the corresponding period.

Pan evaporation records to inform the SILO drill data commenced in 1970. A comparison of the 2022 data indicates that pan evaporation was generally comparable to the long-term averages for the majority of 2022.

3.1.2 Catchment areas

Catchment areas included in the modelling are described in Table 3.1.2.1.

Table 3.1.2.1 Contributing catchment areas

Description	North Pit (ha)	Southern catchment (ha)	Catchment SB1 (ha)	Catchment SB2 (ha)
Areas included in model				
Catchment	37.107	3.746	0.449	1.818

Dam	0.292	-	-	-
Total	37.399	3.746	0.449	1.818
External catchment area (excluded from model)				
Undisturbed catchment	11.309	1.102	-	-

3.1.3 Storage volumes

The capacity of the main dam and storage tank were provided by Quarry Management and are shown in Table 3.1.3.1.

Table 3.1.3.1 Storage volumes

Water storage	Volume (ML)
Main Dam	30
Tank	0.2469

The sediment basins were modelled using a stage-area-storage relationship to represent the settling zone capacity within each basin. For the sediment basins in the North Pit and South-western Catchment 1, these relationships were derived from the supplied January 2018 ground survey completed by Newton Denny Chapmen (NDC).¹

The following assumptions were made for modelling purposes:

- The North Pit sedimentation basin is permanently wet due to seepage into the basin from the surrounding rock.
- Based on a review of available satellite imagery, it is estimated that, between rainfall events, the wet area of the basin is approximately 0.2 ha.
- A review of the basin survey returned a footprint of 0.202 ha at RL 101.9 metres Australian Height Datum (mAHD) and this was adopted as the 'bottom' of the settling zone within the basin. The surveyed storage below this level is considered as sediment storage capacity and has been excluded from the model.
- As the basin is only sized to cater for nuisance events, the modelled stage-storage relationship was extended above the top of the surveyed basin area (0.4 ha at RL102.8 mAHD) to represent temporary ponding over the quarry floor by assuming the quarry floor grades towards the basin at an average of 1 percent.

The modelled storage characteristics for the North Pit sedimentation basin are given in Table 3.1.3.2.

Table 3.1.3.2 North Pit sedimentation basin – modelled storage details (settling zone)

Elevation (mAHD)	Area (ha)	Volume (ML)
101.9	0.202	0.000
102.0	0.248	0.225
103.0	1.120	3.997
104.0	9.520	50.597
104.4	15.120	99.477

¹ Newton Denny Chapmen January 2018 drawing file entitled "18016 MJO Export.dwg".

Under current site conditions, the South Pit is utilised as a sediment basin for its contributing catchment. For modelling purposes, and based on the existing pit landform, it has been assumed to have vertical walls. The required sediment basin storage volume of 2.67 ML (settling zone capacity of 1.78ML plus sediment storage capacity of 0.89ML) is exceeded by the storage capacity of the pit and where necessary (in large rainfall events) the pit will fill above the required storage level. The modelled conditions for the South Pit sedimentation basin are given in Table 3.1.3.3 (following page).

Table 3.1.3.3 South Pit as sedimentation basin – modelled storage details (settling zone)

Depth (m)	Area (ha)	Volume (ML)
0	0.490	0.00
0.365	0.490	1.78
1.000	0.490	4.90
2.000	0.490	9.80
3.000	0.490	14.70
4.000	0.490	19.60
5.000	0.490	24.50

The sediment basin in catchment SB1 is a dry basin. Based on the sedimentation basin design principles, where half of the of the settling zone capacity is included as additional sediment storage capacity, it was assumed that one third of the surveyed capacity was set aside as the sediment storage zone and the upper two-thirds of the surveyed capacity was the available settling zone for inclusion in the model.

The modelled settling zone storage characteristics for the sedimentation basin in sub-catchment SB1 are given in Table 3.1.3.4.

Table 3.1.3.4 SB1 sedimentation basin – modelled storage details (settling zone)

Elevation (mAHD)	Area (ha)	Volume (ML)
115.4	0.0000	0.000
115.5	0.0158	0.015
116.0	0.0196	0.104
116.5	0.0232	0.211

Stage 1 construction of a new sediment basin in catchment SB2 was completed in early 2019. Stage 2 involves further expansion of the basin. G&S understands from information provided by LCC that finalisation of works was delayed due to the required relocation of fuel tank storage infrastructure and other operational matters. Ground survey of this basin has not yet been undertaken and as such, it has been assumed to be constructed in accordance with the conceptual design for the purpose of modelling. A ground survey will be completed once Stage 2 expansion is finalised.

The modelled settling zone storage characteristics for the sedimentation basin in sub-catchment SB2 are given in Table 3.1.3.5 (on the following page).

Table 3.1.3.5 SB2 sedimentation basin – modelled storage details (settling zone)

Depth (m)	Area (ha)	Volume (ML)
0	0.0865	0.000
0.5	0.0865	0.433
1.0	0.0865	0.865

3.1.4 Water usage – main dam & sediment basins

Water truck

A water truck is used for dust suppression throughout the site. Additionally, the truck is infrequently used to cart water between open water storages on site. Throughout the reporting period, water truck movements were logged on site. These included water use for dust suppression from the Main Dam and from sediment basin SB1, as well as transfer of water from sediment basin SB1 to the Main Dam. The logged data was compiled for input into the water balance model on a daily time step. A summary of the monthly volumes of water moved by the truck is provided in Table 3.1.4.1.

Table 3.1.4.1 Summary of water truck movements in the model – total volume per month

Month	Dust suppression (from main dam) (ML)	Dust suppression (from sediment basin SB1) (ML)	From sediment basin SB1 to Main Dam (ML)	From sediment basin SB1 to Main Water Tank (ML)	From sediment basin SB1 to Pugmill (ML)
January	0.0	0.1684	0.0	0.0	0.0
February	0.1000	0.2112	0.0	0.0	0.0
March	0.1584	0.2252	0.1232	0.0528	0.0
April	0.0704	0.2112	0.0	0.0	0.0
May	0.0528	0.0880	0.3168	0.0	0.0
June	0.4048	0.0000	0.0	0.0	0.0176
July	0.5280	0.0000	0.0	0.0	0.0
August	1.4608	0.0000	0.0	0.0	0.0
September	0.3155	0.0000	0.0	0.0	0.0
October	0.1408	0.2816	0.3520	0.0	0.0
November	0.7392	0.0704	0.0880	0.0	0.0
December	0.6512	0.1760	0.0	0.0	0.0
Total	4.6219	1.4320	0.8800	0.0528	0.0176

The water truck movements described in Table 3.1.4.1, were applied as water demands to the model. Where the modelled water available was less than the logged usage, only the available water (if any) was drawn from the water storage within the model.

3.1.5 Water usage – storage tank

Quarry Management has advised that the storage of the main water tank is 246.9 kL. The modelling trigger criteria used for the top-up of the water tank is when the storage of water drops below 60 kL which occurs generally once per week. Modelled water usage from the tank is described below.

It is noted that G&S' February 2019 'Soil and Water Management Plan, Blakebrook Quarry, Blakebrook, New South Wales' provided recommendations regarding recording water usage data on site, so the following estimates can be improved for future reporting purposes. This recommendation is again reiterated in the conclusions of this report as onsite recording would improve the reliability of water balance modelling for the site. It should also be noted that the assumptions below for the water tank usages are proposed to be reviewed in the next revision of the Site Water Balance in line with the latest water tank metre readings.

Haul road sprinklers

Sprinklers are located along the haul road for dust suppression during truck movements. Water for the sprinklers is sourced from the storage tank. Based on the assumptions listed in ERM's April 2011 Soil and Water Management Sub-Plan, whilst operating, the sprinklers use approximately 20 kL per day. This daily demand has been applied to the model for 6 days per week, excluding Sundays when the quarry is closed.

Asphalt plant

An on-site asphalt plant is located in the south-western catchment and sources its water from the storage tank. Estimated water usage for the plant was adopted from ERM's April 2011 Soil and Water Management Sub-Plan. When operating, the asphalt plant uses 0.2 kL/day. This demand is considered to be independent of climatic variables and has been applied to the model as a constant for the six days per week (excluding Sundays) when the plant is operating. The estimated annual plant water usage is thus 0.0616 ML.

Process/product water

Water is used to maintain moisture in the product during processing, at an average rate of four percent moisture (by weight) for all product exported from the site. This water is sourced from the storage tank.

Daily product export data for 2022 was supplied by Quarry Management and tallied to return a total production for the year of 178,095.49 tonnes. To represent periodic changes in production rates (ore product export rates), whilst recognising that the process/product water would not only be applied on the specific day that product is exported from the site, the product exported was totalled for each calendar month and then averaged across six-days per week (i.e. excluding Sundays) for that month (noting that no further adjustment was made for Public Holidays or holiday periods). The total monthly product export and assumed daily product water demand is given in Table 3.1.5.1.

Table 3.1.5.1 Product water demand adopted in the model

Month	Monthly production (tonnes)	No. of days (excl. Sundays)	Average daily product (tonnes)	Daily water demand (kL)
January	15124.68	26	581.7	23.3
February	11961.97	24	498.4	19.9
March	8630.80	27	319.7	12.8
April	20161.35	26	775.4	31.0
May	4488.61	26	172.6	6.9
June	19600.10	26	753.9	30.2

July	17400.17	26	669.2	26.8
August	15692.76	27	581.2	23.2
September	20020.45	26	770.0	30.8
October	18868.30	26	725.7	29.0
November	15049.25	26	578.8	23.2
December	11097.05	27	540.5	16.4

This demand has been applied to the model, six days per week (excluding Sundays) except where the rainfall exceeds pan evaporation, in which case no product moisture has been added in the model.

3.1.6 Controlled discharge from sedimentation basins

As noted above, it is a requirement of the license that rainfall runoff collected in the sedimentation basins (in the North Pit, South Pit and south-western catchment (SB1 and SB2)) be tested and treated (to meet the required water quality targets) before being discharged within five days.

LCC advised that there was one controlled discharge to the LPD throughout the reporting period and occurred following a 5-day rainfall event from SB1 via a siphoning hose. It is understood that this was an operations misunderstanding at the time and the regulator was notified of that release. Rapid seepage (exfiltration) was observed to occur from all water storages following rainfall, such that the available storage capacity was generally restored through natural processes (seepage and evaporation) within the required timeframe following the cessation of rainfall and pumping to the LPDs was not needed. The seepage rates in the modelling were adjusted to reflect this observation for the 2020 water balance report and have been maintained for 2022. The algorithms representing controlled discharge through pumping to the LPD's have thus been excluded from the modelling for the reporting period.

North Pit

For the North Pit, discharge from the basin was directed to the main dam (when capacity was available). When the dam was full, excess water (if any) was assumed to continue to be lost through seepage (at a rate of 480 mm/day) and evaporation from the daily average wet basin area.

3.2 Water balance calculations

3.2.1 Runoff

The volumetric runoff coefficient is defined as the proportion of rainfall that runs off as stormwater. Catchment runoff was calculated adopting the volumetric runoff coefficients from Table F2 of Appendix F of the *Managing Urban Stormwater: Soils and Construction, Volume 1, 4th edition, March 2004*, Landcom (the Blue Book). Based on the soil type the applicable values for the runoff coefficient are shown in Table 3.2.1.1.

Table 3.2.1.1 Volumetric runoff coefficients (Soil Hydrologic Group D)

Rainfall depth (mm)	Runoff coefficient (C _v)
< 20	0.39
20 – 25	0.50
25 – 30	0.56
30 – 40	0.64
40 – 50	0.69
50 – 60	0.74

60 – 80	0.79
> 80	0.84

Rainfall runoff calculations were undertaken for all dry catchment areas contributing to the sedimentation basins. For wet catchment areas (i.e. the main storage dam and the calculated daily wet area for each sedimentation basin), rainfall was applied directly to the water body in the model with no volumetric reduction for conversion to runoff.

3.2.2 Evaporation

Losses due to evaporation were applied to all open water storages on a daily basis, based on the estimated wet area. The main dam area was assumed as a constant, adopting the area in Table 3.1.2.1. Wet areas for each of the sedimentation basins were based on the stage-storage relationships described in Section 3.1.3. Evaporative losses from water bodies were calculated using a conversion factor of 0.7, applied to the pan evaporation data.

3.2.3 Seepage

Losses due to seepage were applied to all open water storages on a daily basis. For the sedimentation basins seepage was applied based on the estimated wet area. For the main dam area, seepage was assumed to occur through the walls of the dam when the storage depth was 5 metres or more. When the depth of stored water dropped below 5m, it was assumed no seepage occurred. Average daily wet areas for each of the sedimentation basins were based on the stage-storage relationships described in Section 3.1.3.

Seepage losses from water bodies were estimated based on rough site observations of how quickly water was lost following rainfall. The adopted seepage rates for losses from each water storage are shown in Table 3.2.3.1.

Table 3.2.3.1 Modelled seepage rates

Water storage	Seepage rate (mm/day)	Seepage applied to
North Pit sedimentation basin	480	Wet area
Main dam	20	Walls above 5m depth
South Pit/sedimentation basin	240	Walls – full depth
Southwestern sedimentation basins	240	Wet area

It has been noted that both the northern sedimentation basin and the main dam intercept local groundwater stores and as such do not dry out. Whilst it is evident that groundwater seepage into these water bodies is occurring, it has not been estimated or included in the modelling.

3.2.4 Initial conditions

For modelling purposes, the modelled storage volumes at the end of the previous reporting period (2020) were adopted as initial conditions and applied to the model at the commencement of the 2022 annual return period. These are:

- Main water storage dam: 30.13 ML
- Water storage tank: 0.12 ML
- North Pit sedimentation basin: 0.17ML
- South Pit: 1.52 ML
- South-western catchments sedimentation basin SB1: 0.048ML
- South-western catchments sedimentation basin SB2: 0.15ML

4 Results

4.1 Climate data summary

A summary of relevant climate data is provided in Table 4.1.1.

Table 4.1.1 Climate data analysis – 2022 return period

Parameter	Value
Total number of rainfall days	227
Total number of days exceeding 5-day design rainfall (60.2 mm) for previous 5 days	48
Number of events exceeding 5-day design rainfall (60.2 mm)	8
Duration of longest exceedance event ^a (days)	10
Total depth of largest event (mm in 5 days)	741.6

^a Duration of exceedance event is defined by number consecutive days that 5-day rainfall total exceeds 5-day design rainfall. Duration of exceedance may exclude (up to) the first to 4 days of rainfall event if 5-day design rainfall is not exceeded during those days.

4.2 Northern catchment

Based on the inputs and assumptions described above, the modelling results show that rainfall and runoff captured from the northern catchment alone provides sufficient inflow to the main dam to service all water demands within the quarry throughout the full range of modelled climatic conditions.

4.2.1 Northern catchment sedimentation basin

A summary of the annual water balance results for the Northern catchment sedimentation basin is presented in Table 4.2.1.1.

Table 4.2.1.1 Northern catchment sedimentation basin – 2022 return period

Parameter	Volume (ML)
Rainfall volume – total North Pit catchment area	954.8
Total basin inflow	624.9
Evaporative losses	3.9
Seepage losses	607.7
Discharge – pumped to main dam	13.5
Discharge to LPD1	0

A summary of the estimated sedimentation basin performance is provided in Table 4.2.1.2.

Table 4.2.1.2 Northern catchment sedimentation basin performance – 2022 return period

Parameter	Value
Total number of discharge days (to Main Dam)	22
Total number of days per year when basin contains water ^a	36
Maximum number of consecutive days where basin contains water	7
Average number of days to empty basin	2.3

^a Total number of days containing water has been calculated based on end-of-day volumes after all losses and discharges have been accounted for. The basin may be subject to wetting and drying more frequently during small events which are accounted for by losses and/or discharge within the daily time step.

The modelling indicates that the longest continuous period the basin contained water (above the standing water level) during the return period was 7 days. During that period, multiple back-to-back rainfall events occurred and the basin capacity was restored within 5 days following the cessation of rainfall.

4.2.2 Main Dam water balance

A summary of the water balance model results for the Main Dam is presented in Table 4.2.2.1.

Table 4.2.2.1 Northern catchment Main Dam – volume estimates for 2022 return period

Parameter	Volume (ML)
Dam inflow from direct rainfall	7.4
Dam inflow pumped from sediment basin	13.5
Dam inflow – water truck from basin SB1	0.2
Total dam inflow	21.2
Evaporative losses	2.9
Seepage losses	6.9
Total losses	9.8
Usage – water truck for dust suppression	4.6
Usage – main tank top-up for other site usage	11.4
Total usage	16.1
Minimum daily stored volume	22.7
Maximum daily stored volume	32.1
Average daily stored volume	27.9

Figure 1 (in Attachment 2) shows the estimated daily dam storage volumes for the entire model period.

Although controlled dam inflows (i.e. pumped discharge from the sediment basin) are restricted to occur only when the dam is below full storage level, direct rainfall onto the dam during large rainfall events results in the full-storage capacity being exceeded for a short time after such events. For the 2022 annual return period, it is estimated the maximum volume stored in the dam exceeded its capacity by 2.1 ML. This additional volume is generally accommodated within a bunded dam area around the dam to prevent mixing with ‘dirty’ quarry pit runoff. Quarry management has advised that observations from the February 2022 rainfall event indicated that the main dam overtopped into the adjacent quarry areas. Whilst there was overtopping of the dam bund, these waters remained within the site due to bunds forming the perimeter of the pit.

4.2.3 Main Tank water balance

A summary of the water balance results for the Main Tank is presented in Table 4.2.3.1.

Table 4.2.3.1 Northern catchment Main Tank – 2022 return period

Parameter	Volume (ML)
Tank inflow pumped from main dam (ML)	11.45
Usage – haul road sprinklers (ML)	6.23
Usage – asphalt plant (ML)	0.03

Usage – process/product water (ML)	5.10
Average daily stored volume (ML)	0.13

The attached Figure 2 shows the estimated daily storage volumes in the tank for the 2022 return period. Based on the stated water usage assumptions, the modelling suggests that throughout the modelling period the minimum water level in the rain tank prior to top-up was 0.01 ML.

4.3 Southern catchment

The southern catchment water balance was undertaken to estimate volumes of water stored within the south pit. Given that there were no quarry operations taking place within the South Pit catchment within the reporting period, no sedimentation basin was in operation, and any water collected in the South Pit remained stored in the pit or lost to evaporation and seepage.

4.3.1 Southern catchment – quarry pit

Under existing site conditions, and during the 2022 return period, the South Pit acts as a sump for collection and storage of runoff from the southern catchment. A summary of the annual water balance results for the South Pit (sedimentation basin) is presented in Table 4.3.1.1.

Quarry management has advised that observations from the February 2022 rainfall event indicated that the south pit overtopped into the adjacent quarry areas. Whilst there was overtopping of the pit, these waters remained within the site due to bunds forming the perimeter of the pit.

Table 4.3.1.1 Southern catchment quarry pit – 2022 return period

Parameter	Value
Rainfall volume – total South Pit catchment area (ML)	95.6
Total pit inflow (ML)	54.3
Evaporative losses (ML)	4.5
Seepage losses (ML)	63.8
Discharge to LPD1	0.0

A summary of the estimated sedimentation basin performance is provided in Table 4.3.1.2.

Table 4.3.1.2 South Pit/sedimentation basin performance – 2022 return period

Parameter	Value
Total number of days discharging to LPD	0
Total number of days per year when pit contains water ^a	340
Maximum volume of stored water (ML)	19.8
Maximum number of consecutive days where pit contains water	274
Average number of days to empty pit	62.4

^a Total number of days containing water has been calculated based on end-of-day volumes after all losses and discharges have been accounted for. The basin may be subject to wetting and drying more frequently during small events which are accounted for by losses and/or can be discharged immediately.

4.4 South-western catchments

The south-western catchment water balance has been undertaken to estimate catchment discharge volumes at LPD1. Collection and storage of water within this catchment is intended to be temporary only to satisfy

water quality treatment requirements. As these basins are not confined within the quarry pits, in rainfall events exceeding their design capacity, the basins will overtop and discharge directly to the receiving environment, leaving the site at LPD1. The modelled storage volume for the existing sedimentation basin SB1 is based on detailed ground survey. Basin SB2 Stage 1 was constructed in 2019 and detailed ground survey is yet to be undertaken. In the absence of survey data, and for modelling purposes, it has been assumed to be constructed in accordance with the conceptual design (as described in Section 3.1.3).

4.4.1 South-western catchment – sedimentation basin SB1

A summary of the annual water balance model results for the catchment SB1 sedimentation basin is presented in Table 4.4.1.1.

Table 4.4.1.1 Sedimentation basin SB1 – 2022 return period

Parameter	Volume (ML)
Rainfall volume – total SB1 catchment area (ML)	11.46
Total basin inflow (ML)	7.57
Export – water truck transport to Main Dam (ML) ^a	0.21
Usage – water truck for dust suppression (ML) ^a	0.27
Evaporative losses (ML)	0.04
Seepage losses (ML)	3.55
Overflow to LPD1	3.54

^a Note: modelled water truck movements differ from demands detailed in Section 3.1.4 as modelled water usage can only occur when the sediment basin contains water. Any logged usage when the basin was modelled to be empty has been excluded.

A summary of the estimated sedimentation basin performance is provided in Table 4.4.1.2.

Table 4.4.1.2 Sedimentation basin SB1 performance

Parameter	Value
Total number of days of overflow	8
Total number of days per year when pit contains water ^a	68
Maximum number of consecutive days where pit contains water	11
Average number of days to empty pit	3.0

^a Total number of days containing water has been calculated based on end-of-day volumes after all losses and discharges have been accounted for. The basin may be subject to wetting and drying more frequently during small events which are accounted for by losses and/or can be discharged immediately.

4.4.2 South-western catchment – sedimentation basin SB2

A summary of the annual water balance model results for the catchment SB2 sedimentation basin is presented in Table 4.4.2.1 (on the following page).

Table 4.4.2.1 Sedimentation basin SB2 – 2022 return period

Parameter	Volume (ML)
Rainfall volume – total SB2 catchment area (ML)	46.41
Total basin inflow (ML)	30.67
Evaporative losses (ML)	0.33
Seepage losses (ML)	15.91
Overflow to LPD1	14.58

A summary of the estimated sedimentation basin performance is provided in Table 4.4.2.2.

Table 4.4.2.2 Sedimentation basin SB2 performance

Parameter	Value
Total number of days of overflow	8
Total number of days per year when pit contains water ^a	61
Maximum number of consecutive days where pit contains water	11
Average number of days to empty pit	3.2

^a Total number of days containing water has been calculated based on end-of-day volumes after all losses and discharges have been accounted for. The basin may be subject to wetting and drying more frequently during small events which are accounted for by losses and/or can be discharged immediately.

4.4.3 Water truck usage

Records of water truck usage were kept on site during the 2022 return period and a summary of the logged usage was described in Section 3.1.4. The logged water truck movements comprised:

- Water used from the Main Dam for dust suppression.
- Water used from SB1 for dust suppression.
- Water transferred from SB1 to the Main Dam.
- Water transferred from SB1 to the Main Water Tank.
- Water transferred from SB1 to the Pugmill.

Modelling of the Main Dam indicated it always had sufficient water stored to supply the logged usage.

Modelling of SB1 (a dry sediment basin by design) indicated that based on the modelling assumptions, water was not always available (within the model) to meet the logged usage. When the modelled basin was dry, the logged usage was not always able to be met.

Table 4.4.3.1 provides a comparison of the logged usage and the usage that the model could accommodate.

Table 4.4.3.1 Comparison of logged and modelled water truck usage from sediment basin SB1

	Logged volume used (ML)	Modelled volume used (ML)
From sediment basin SB1 to Main Dam	0.8800	0.21
Dust suppression (from sediment basin SB1)	1.4320	0.27
From sediment basin SB1 to Main Water Tank	0.0528	0.0
From sediment basin SB1 to Pugmill	0.0176	0.0

As the recommendations of the SWMP are progressively implemented on site, and model inputs and assumptions are revised accordingly, differences between site records and model outcomes should be able to be reduced. It is also noted that the daily water truck usage log maintained on site was not always consistent in how it referenced the different water bodies on site and required us to make some assumptions regarding the intended records. Whilst improvements are evident since the previous reporting period the importance of consistent record keeping practices should remain an ongoing training focus for Quarry staff involved in water management.

A further review of the recorded site water truck records against advice we were provided about the frequency of water truck usage for dust suppression in previous years resulted in substantially lower water usage for dust suppression (than in previous years).

In previous years we were advised that:

- The water truck has as capacity of 17.6 kL.
- In warmer months, approximately 6-8 truck loads are currently used on site each day.
- In cooler months, approximately 2-4 truck loads are currently used on site each day.
- Following very light rainfall, a water truck use decision is made by visual observation of site conditions.
- During wet weather, the water truck is not used.

Applying these assumptions to the water balance modelling in 2019 resulted in an estimated total of 26.2ML of water used for dust suppression. Similarly to 2020, 2021 and 2022 was a wetter year and we would expect to see a small reduction in dust suppression requirements, the recorded total volume used for dust suppression (from all water bodies) of 6.1 ML is significantly lower than would have been anticipated based on previous advice. The 2022 reporting period was the third year of site records since Quarry Management introduced the use of a daily log of water truck movements. Ongoing use of this log will help to confirm and improve the accuracy of the water usage estimates in future years.

5 Conclusions

This report presents details of water balance modelling undertaken for the 2022 Annual Return period. It demonstrates that during this period, rainfall captured and stored within the quarry catchment provided sufficient supply for all on-site (non-potable) water usage.

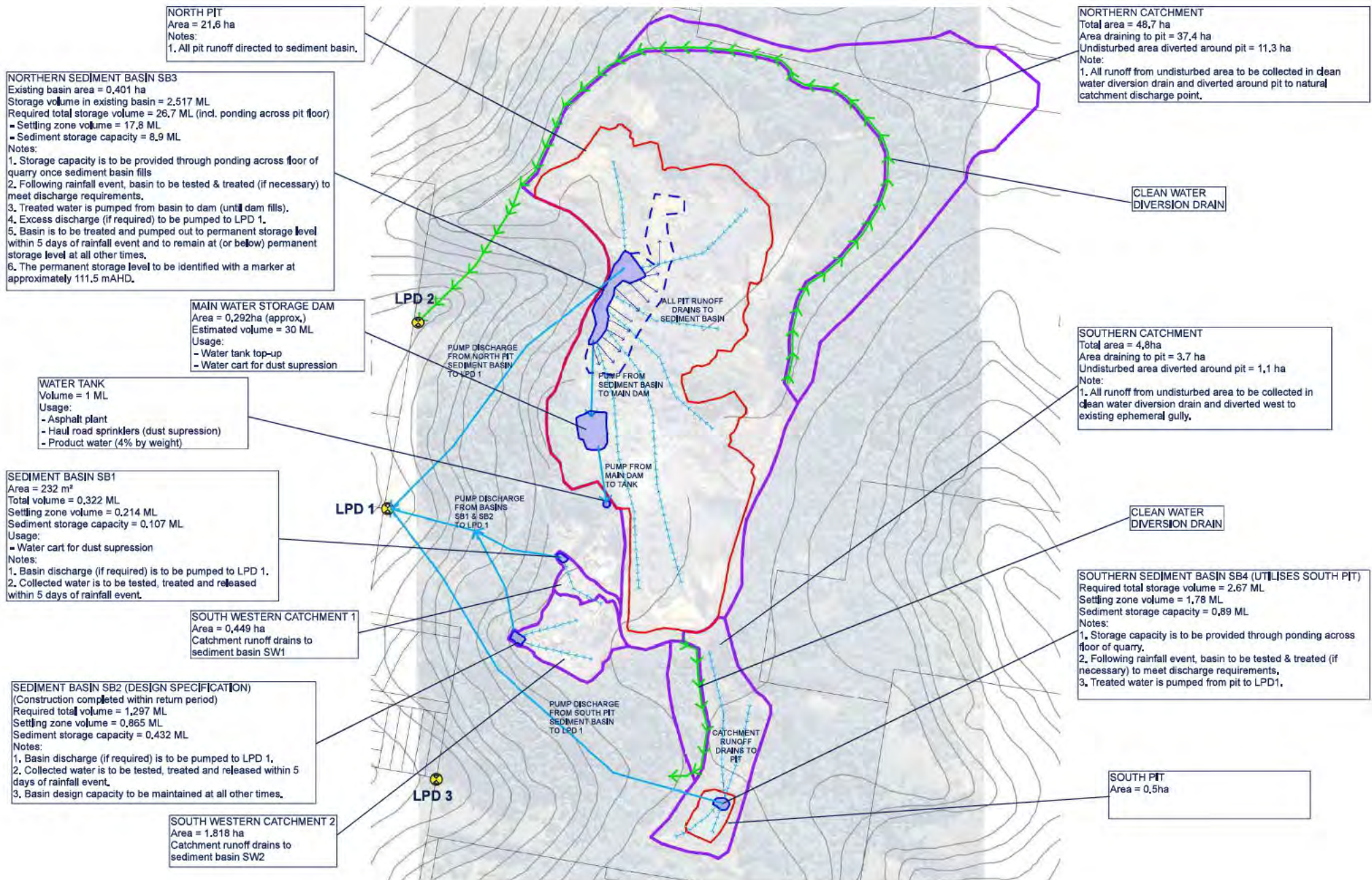
The water balance modelling exercise highlighted some differences between previous advice regarding site practices and site records for the current reporting period. To improve the water balance for future years, the following actions are recommended in addition to those contained in the SWMP:

- Ongoing training of quarry staff to consistently identify/name the various water bodies on site in the water truck usage log.
- Recording of days of zero water use (to remove uncertainty over whether records were kept on days with no recorded usage).

- Accurate record keeping of all water transfers and usage from all storages including the tank.
- Following completion of Stage 2, a detailed ground survey of the catchment draining to sediment basins SB1 and SB2 (including the sediment basins) to ensure that site runoff is being directed to the correct basin for treatment.
- Installation of water level markers in the main dam and the south pits sediment basin and regular records of all water levels (weekly during dry periods and daily following rainfall until capacity is restored) will assist in improving the reliability of water balance modelling for future reporting years.

Implementation of the above recommendations and detailed recording of all treatment and discharge events should ensure that future annual water balance reports can readily demonstrate that licence requirements continue to be met.

6 Attachment 1 – Drawings



7 Attachment 2 – Figures

Figure 1 - Main Dam water balance for 2022 annual return period

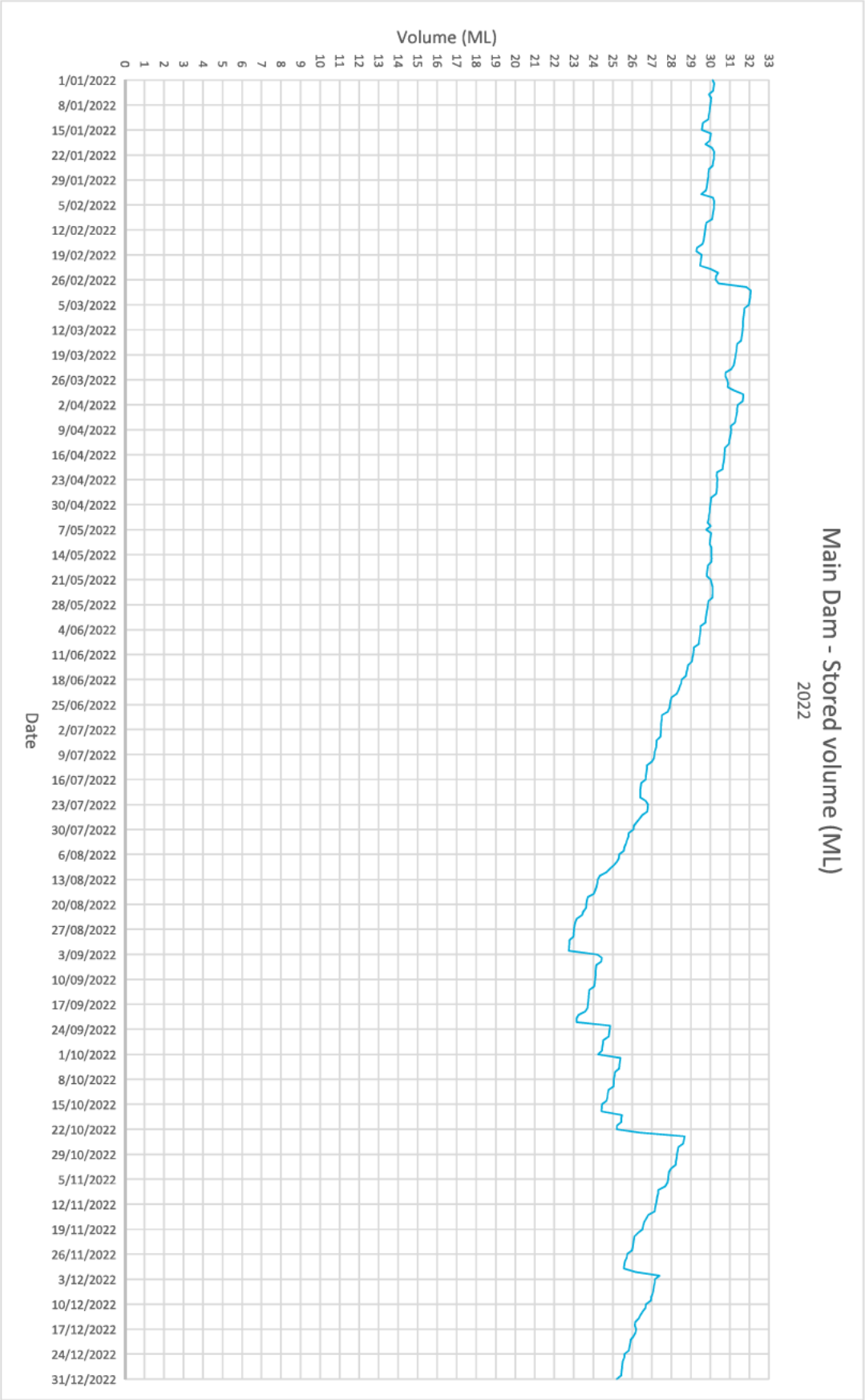
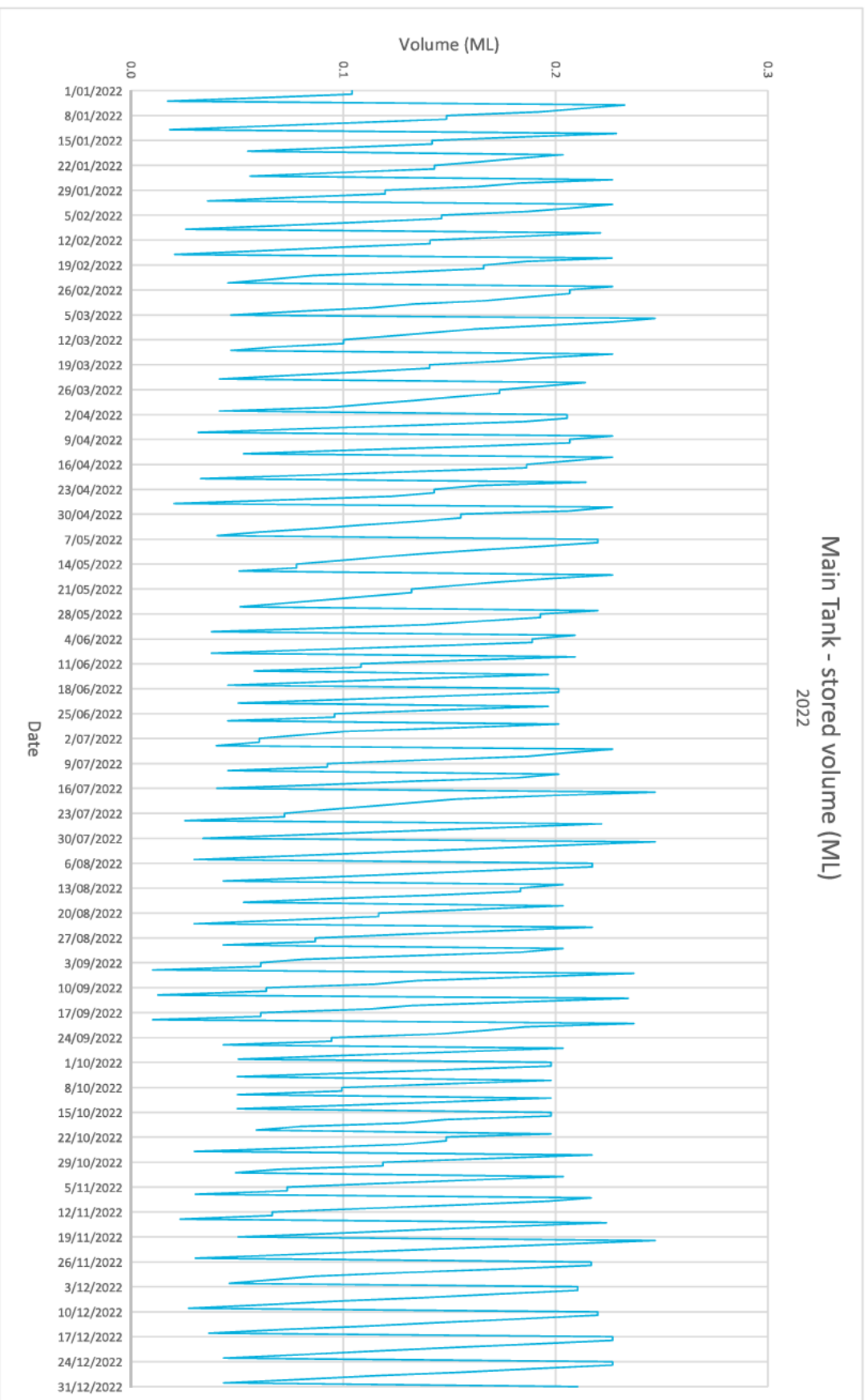


Figure 2 - Main Tank water balance for 2022 annual return period





Appendix U

Surface Water Monitoring Results

Friday 31st March 2023- Revision 1

Environmental Engineer & Director

To: [REDACTED]
Compliance Officer, Lismore City Council
Blakebrook Quarry Water Quality Sampling

mob: 0428-215-124
office: (02) 66-215-123
fax: (02) 66-218-123
ABN: 82 106 758 123

Re: Surface Water Quality Monitoring Results & Report for Blakebrook Quarry

Reporting period: 1st December 2022 to 1st March 2023

1.0 INTRODUCTION

Ecoteam is engaged to undertake quarterly surface water quality on behalf of Lismore City Council for the Blakebrook Quarry. This report presents results from the March 2023 sampling round.

2.0 PROJECT AIMS AND SAMPLING OBJECTIVES

The aim of the surface water monitoring program is to monitor surface water quality surrounding the Blakebrook Quarry site as per Northern Rivers Quarry - Blakebrook Quarry Monitoring Procedure (Surface Water) - Work Method Statement 3. The project objectives are to detect changes in water quality within surface water that may be a result of the Blakebrook Quarry activities.

3.0 SAMPLING LOCATIONS

Samples were collected from 4 of the 4 surface water sample sites. Sample codes and corresponding sampling locations are shown in **Table 1** and **Figure 1**.

Table 1. Quarterly surface water sampling sites, sample codes, and site information.

Location	Easting	Northing	Description
SW1	523693	6818008	Flow under Nimbin Road, downstream of LPD1 and LPD2
SW2	523124	6817955	Upstream of site, discharges in Terania Creek
SW3	523422	6817156	Downstream of site, discharges in Terania Creek
SW5	523807	6817669	Flow under Nimbin Road, downstream of LPD3

Appendix A - Sampling Locations in blue

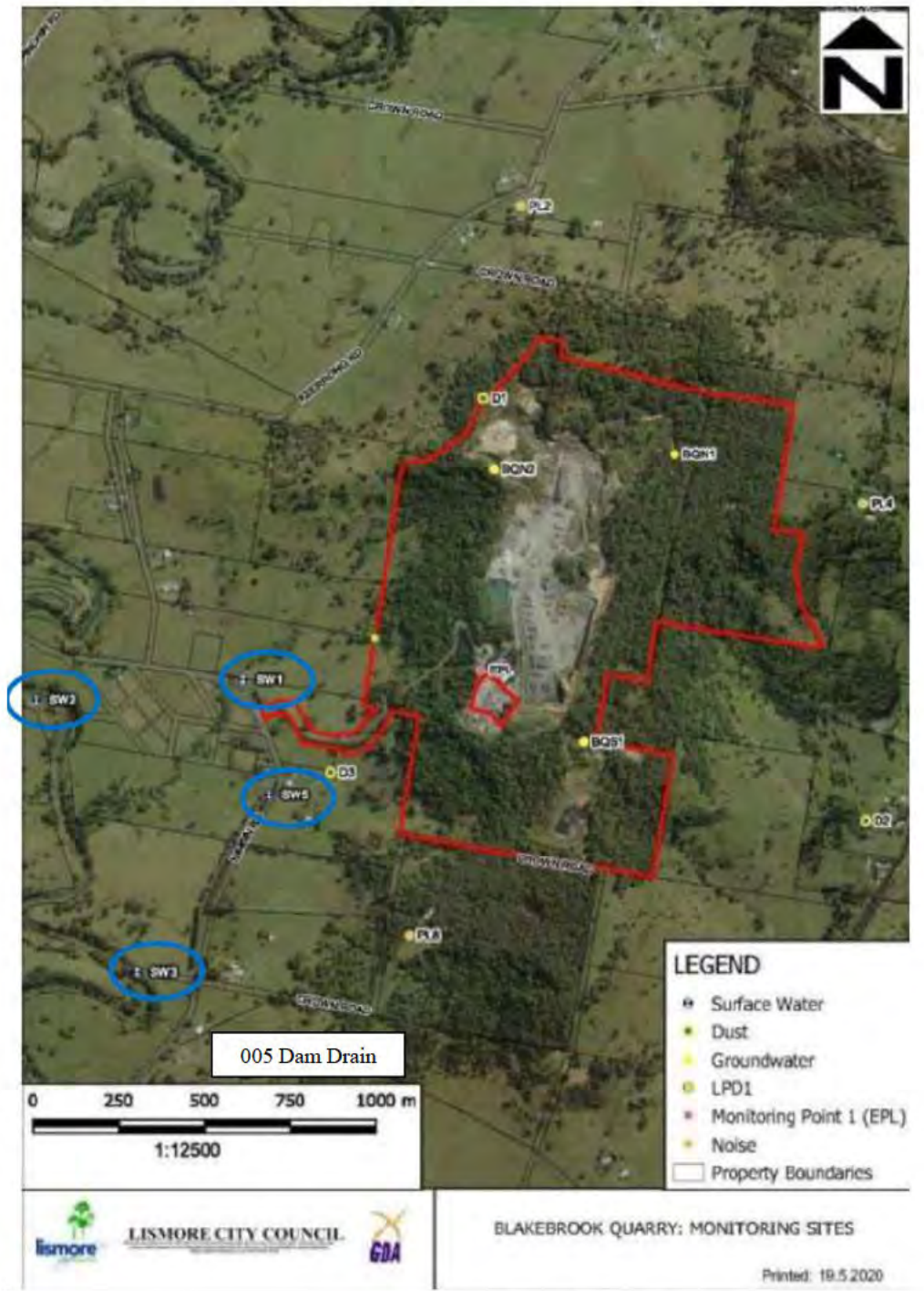


Figure 1. Map of monthly of surface water sampling sites (Source: Lismore City Council)

4.0 SAMPLING METHODOLOGY

Sampling was undertaken by [REDACTED] and [REDACTED] on Thursday 2nd March 2023. In situ, physico-chemical measurements were collected using an Aquatroll Water Quality Meter. Oil and Grease was visually assessed. The calibration certificate for the water quality meter is included as **Appendix C**. Sample collection methods and in-situ results are presented in **Appendix A (Table 2)**. A comparison of results to Trigger Values are presented in **Table 3**. Photographs of sample locations taken during sampling are presented in **Appendix B**.

Samples were stored on ice and dropped off at the Environmental Analysis Laboratory (EAL) in Lismore. Samples were not field filtered. A full list of analytes for the project are included in **Appendix D**.

5.0 RESULTS

5.1 Physico-chemical Results

In situ, physico-chemical sampling results are shown in **Appendix A (Table 2)**. A comparison of results to Trigger Values are presented in **Table 3**. Site SW5 was not sampled as there was no flow at the time of sampling. There were no surface sheens visible at any sites, therefore Oil and Grease was not present.

- pH inside the Trigger Value range at all sites.
- Visible oil and grease were not present at any site.

5.2 Laboratory Results

The chain of custody form is included in **Appendix E**. A full copy of the laboratory results is included as **Appendix F**. A comparison of results to Trigger Values are presented in **Table 3**.

- TSS was above the Trigger Value at Site SW1.

6.0 COMMENTS AND RECOMMENDATIONS

TSS was above the trigger values at Site SW1. TSS is usually high at this site. It is unlikely that changes are a result of impacts from the quarry site. No further investigation is warranted.

Kind regards,

[Redacted Signature]

Environmental Engineer & Director

[Redacted Name]

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APPENDIX A – Water Quality Result

Table 2. Results of physico-chemical parameters collected in situ at quarterly sampling.

Blakebrook Surface Water Sample Information				
Site name	SW1	SW2	SW3	SW5
Site Type	Downstream	Upstream	Downstream	Downstream
Date	02/03/23	02/03/23	02/03/23	02/03/23
Time	13:46	13:47	14:16	14:00
Sample Method	Grab Sample 300mm deep	Grab Sample 300mm deep	Grab Sample 300mm deep	Not sampled
Oil and Grease	Not Present	Not Present	Not Present	Not Present
Odour	Not Present	Not Present	Not Present	Not Present
Site/Water Observations	Low flow, low- moderately turbid.	Moderate flow, moderately turbid.	Moderate flow, moderately turbid.	Not flowing
Analyte	Water Quality Observations			
pH	7.95	6.74	6.88	
EC $\mu\text{S}/\text{cm}$	534.78	118.91	113.29	
DO (%)	77.13	87.23	82.34	
Temperature ($^{\circ}\text{C}$)	28.53	30.24	30.20	
ORP	90.93	158.65	180.44	
Turbidity	17.22	37.30	27.86	

Table 3. Results quarterly sampling compared to Trigger Values.

Blakebrook Quarry Surface Water Sampling			
Site Name	SW1	SW2	SW3
Sample date	02/03/23	02/03/23	02/03/23
Site Type	Downstream	Upstream	Downstream
Trigger Value comparison			
pH Trigger Value	6.5-8.5	6.5-8.5	6.5-8.5
pH -Sample Date-2/03/2023	7.95	6.74	6.88
Outside of range	No	No	No
TSS (mg/L) Trigger Value	50	50	50
TSS (mg/L) -Sample Date-2/03/2023	73	24	18
Above Trigger Value	Yes	No	No
Oil and Grease -Sample Date-2/03/2023- Present or absent	Absent	Absent	Absent

Notes: Results above/outside of Trigger Values have been highlighted

Appendix B - Site Photos



**Site SW1 –
Creek (Downstream)
(02/03/2023)**



**Site SW2 –
Leycester Creek (Upstream)
(02/03/2023)**



**Site SW3 -
Leycester Creek
(Downstream)
(02/03/2023)**



**Site SW5 -
Drain (Downstream)
No Flow
(02/03/2023)**

Appendix C - Calibration certificate for Water Quality Meter

Calibration Report

Instrument Aqua TROLL 500
Serial Number 757823
Created 21/11/2022

Sensor **Turbidity**
Serial Number 754060
Last Calibrated Factory Defaults

Sensor **RDO**
Serial Number 754373
Last Calibrated 10/07/2022

Calibration Details

Slope 1
Offset -0.10 mg/L

Pre Measurement

RDO Concentration 8.74 mg/L

Post Measurement

RDO Concentration 8.75 mg/L

Sensor **pH/ORP**
Serial Number 742301
Last Calibrated 21/11/2022

Calibration Details

Calibration Point 1

pH of Buffer 4.01 pH
pH mV 96.0 mV
Temperature 29.11 °C

Pre Measurement

pH 4.22 pH
pH mV 96.0 mV

Post Measurement

pH 4.01 pH
pH mV 97.4 mV

Calibration Point 2

pH of Buffer 6.99 pH
pH mV -71.3 mV
Temperature 30.21 °C

Pre Measurement

pH 7.11 pH
pH mV -71.6 mV

Post Measurement

pH 6.99 pH
pH mV -72.6 mV

Slope and Offset 1

Slope -56.17 mV/pH
Offset -71.9 mV

ORP

ORP Solution Zobell's
Offset 55.0 mV
Temperature 30.27 °C
Pre Measurement 167.7 mV
Post Measurement 222.2 mV

Sensor **Conductivity**
Serial Number 756927
Last Calibrated 10/07/2022

Calibration Details

TDS Conversion Factor (ppm) 0.65
Cell Constant 0.873
Reference Temperature 20.00 °C

Appendix D. Full List of Sampling Analytes

Field


- pH
- Electrical Conductivity (EC)
- Dissolved Oxygen (DO)
- Temperature
- Oxidation Reduction Potential
- Oil and Grease
- Turbidity

Laboratory

- Nitrate
- Nitrite
- Phosphate
- Ammonium
- Total suspended Solids (TSS)

Appendix E - Chain of Custody Form

CHAIN OF CUSTODY

 <p>eal Environmental Analysis Laboratory Southern Cross University</p> <p>PO Box 157 (Military Road) LISMORE NSW 2480 P 02 6620 3678 F 02 6620 3957 eal@scu.edu.au, www.scu.edu.au/eal</p>	Submitting Client Details Quote Id: EALQ5821 Job Ref: SMC010-Blakebrook WQ- Surface Water- SEPT20 Company Name: Ecoteam Contact Person: [REDACTED] Phone: 66215123 Mobile: 0428215124 Fax: [REDACTED] Email: [REDACTED] Postal Address: 13 Ewing Street, Lismore	Billing Client Details ABN: [REDACTED] Company Name: Ecoteam Contact Person: [REDACTED] Phone: 02 66215123 Mobile: 0428215124 Fax: [REDACTED] Email: [REDACTED] Postal Address: 13 Ewing Street, Lismore
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This section will be destroyed after being processed. Only Complete CVV number if you are supplying the original hardcopy to EAL.

Payment Method:

- ☐ Purchase Order
☐ Cheque
☐ Invoice (prior approval required)
☐ Credit Card Mastercard / Visa No: _____ / _____ / _____

Exp. Date: _____ Name on Card: _____ CVV: _____

Relinquished By: [REDACTED]	Date: 2/3/23	Signed: [Signature]
Preservation: None / Ice / Ice bricks / Acidified / Filtered / Other: _____		
Received By: [REDACTED]	Date: 2/3/23	[REDACTED]
Condition on receipt: Ambient / Cool / Frozen / Other: _____		

Comments:

Marketing Survey - where did you find us?

- ☐ Word of mouth ☐ Magazine ☐ Google search ☒ Other

Lab Sample No.	Sample ID	Sample Depth	Sampling Date	Your Client	Crop ID	Sample Type (e.g. water, leaf, soil)	SV	Nutrient SW-PA									
	SW1	300				Water	X	X									
	SW2	300				Water	X	X									
	SW3	300				Water	X	X									

EAL Chain of Custody
Issue: V1.1 27/09/2016

EAL Project Reference: N 8175

water x 3

QFORM 4.2
Page 1 of 2

Appendix F. Full Laboratory Results

RESULTS OF WATER ANALYSIS

3 samples supplied by Ecoteam on 2/03/2023. Lab Job No. N8175.

Samples submitted by [REDACTED]. Your Job: SMC-Blakebrook WQ- Surface Water- Sept 20

13 Ewing Street LISMORE NSW 2480

Parameter	Methods reference	Sample 1	Sample 2	Sample 3
		SW1	SW2	SW3
	<i>Job No.</i>	<i>N8175/1</i>	<i>N8175/2</i>	<i>N8175/3</i>
Total Suspended Solids (mg/L)	GFC equiv. filter - APHA 2540-D	73	24	18
Phosphate (mg/L P)	APHA 4500 P-G	0.019	0.037	0.036
Nitrate (mg/L N)	APHA 4500 NO ₃ ⁻ -F	<0.005	0.106	0.101
Nitrite (mg/L N)	APHA 4500 NO ₂ ⁻ -I	<0.005	<0.005	<0.005
Ammonia (mg/L N)	APHA 4500 NH ₃ -H	0.090	0.104	0.071

Notes:

- 1 mg/L (milligram per litre) = 1 ppm (part per million) = 1000 µg/L (micrograms per litre) = 1000 ppb (part per billion).
- Analysis performed according to APHA (2017) 'Standard Methods for the Examination of Water & Wastewater', 23rd Edition, except where stated otherwise.
- Analysis conducted between sample arrival date and reporting date.
- ** NATA accreditation does not cover the performance of this service.
- ... Denotes not requested.
- This report is not to be reproduced except in full.
- All services undertaken by EAL are covered by the EAL Laboratory Services Terms and Conditions (refer scu.edu.au/eal or on request).
- Results relate only to the samples tested.
- This report was issued on 9/03/2023.



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with ISO/IEC 17025 - Testing

Tuesday 4th July 2023

Environmental Engineer & Director

To: [REDACTED]
Compliance Officer, Lismore City Council
Blakebrook Quarry Water Quality Sampling

mob: 0428-215-124
office: (02) 66-215-123
fax: (02) 66-218-123
ABN: 82 106 758 123

Re: Surface Water Quality Monitoring Results & Report for Blakebrook Quarry

Reporting period: 1st March 2023 to 1st June 2023

1.0 INTRODUCTION

Ecoteam is engaged to undertake quarterly surface water quality on behalf of Lismore City Council for the Blakebrook Quarry. This report presents results from the June 2023 sampling round.

2.0 PROJECT AIMS AND SAMPLING OBJECTIVES

The aim of the surface water monitoring program is to monitor surface water quality surrounding the Blakebrook Quarry site as per Northern Rivers Quarry - Blakebrook Quarry Monitoring Procedure (Surface Water) - Work Method Statement 3. The project objectives are to detect changes in water quality within surface water that may be a result of the Blakebrook Quarry activities.

3.0 SAMPLING LOCATIONS

Samples were collected from 4 of the 4 surface water sample sites. Sample codes and corresponding sampling locations are shown in **Table 1** and **Figure 1**.

Table 1. Quarterly surface water sampling sites, sample codes, and site information.

Location	Easting	Northing	Description
SW1	523693	6818008	Flow under Nimbin Road, downstream of LPD1 and LPD2
SW2	523124	6817955	Upstream of site, discharges in Terania Creek
SW3	523422	6817156	Downstream of site, discharges in Terania Creek
SW5	523807	6817669	Flow under Nimbin Road, downstream of LPD3

Appendix A - Sampling Locations in blue

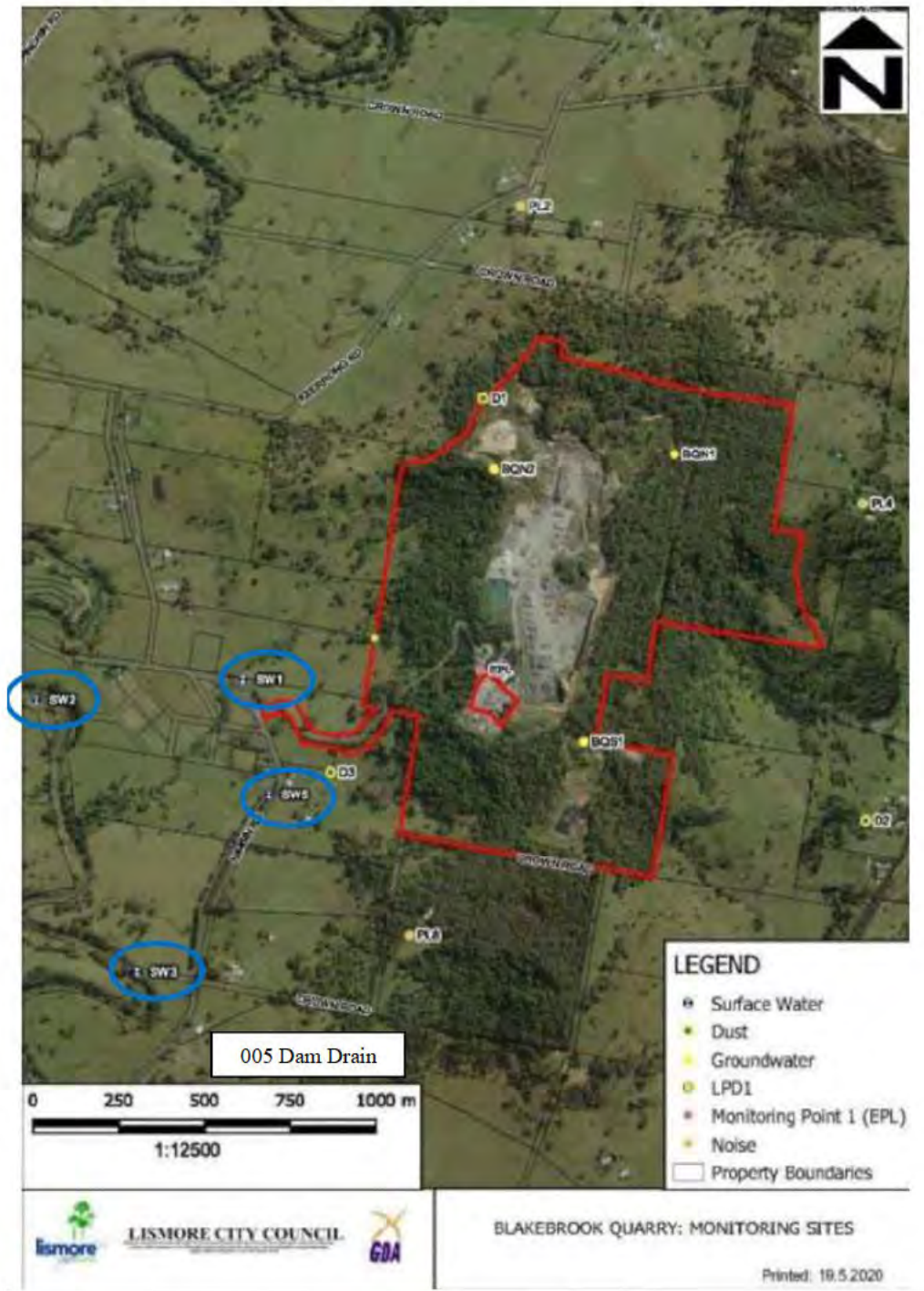


Figure 1. Map of monthly of surface water sampling sites (Source: Lismore City Council)

4.0 SAMPLING METHODOLOGY

Sampling was undertaken by [REDACTED] and [REDACTED] on Tuesday 6th June 2023. In situ, physico-chemical measurements were collected using an Aquatroll Water Quality Meter. Oil and Grease was visually assessed. The calibration certificate for the water quality meter is included as **Appendix C**. Sample collection methods and in-situ results are presented in **Appendix A (Table 2)**. A comparison of results to Trigger Values are presented in **Table 3**. Photographs of sample locations taken during sampling are presented in **Appendix B**.

Samples were stored on ice and dropped off at the Environmental Analysis Laboratory (EAL) in Lismore. Samples were not field filtered. A full list of analytes for the project are included in **Appendix D**.

5.0 RESULTS

5.1 Physico-chemical Results

In situ, physico-chemical sampling results are shown in **Appendix A (Table 2)**. A comparison of results to Trigger Values are presented in **Table 3**. Site SW5 was not sampled as there was no flow at the time of sampling. There were no surface sheens visible at any sites, therefore Oil and Grease was not present.

- pH inside the Trigger Value range at all sites.
- Visible oil and grease were not present at any site.

5.2 Laboratory Results

The chain of custody form is included in **Appendix E**. A full copy of the laboratory results is included as **Appendix F**. A comparison of results to Trigger Values are presented in **Table 3**.

- TSS was below the Trigger Value at all sites.

6.0 COMMENTS AND RECOMMENDATIONS

All parameters were within/below the Trigger Values at all sites.

Kind regards,

[Redacted Signature]

Environmental Engineer & Director

[Redacted Name]

mob: 0428-215-124

office: (02) 66-215-123

fax: (02) 66-218-123

ABN: 82 106 758 123

APPENDIX A – Water Quality Result

Table 2. Results of physico-chemical parameters collected in situ at quarterly sampling.

Blakebrook Surface Water Sample Information				
Site name	SW1	SW2	SW3	SW5
Site Type	Downstream	Upstream	Downstream	Downstream
Date	06/06/23	06/06/23	06/06/23	06/06/23
Time	14:25	14:52	15:30	15:15
Sample Method	Grab Sample 300mm deep	Grab Sample 300mm deep	Grab Sample 300mm deep	Not sampled
Oil and Grease	Not Present	Not Present	Not Present	Not Present
Odour	Not Present	Not Present	Not Present	Not Present
Site/Water Observations	Low flow, low turbidity.	Low-moderate flow, moderate turbidity .	Low-moderate flow, moderate turbidity .	Not flowing
Analyte	Water Quality Observations			
pH	7.34	8.32	8.04	
EC $\mu\text{S}/\text{cm}$	574.57	122.06	127.39	
DO (%)	77.32	95.28	93.13	
Temperature ($^{\circ}\text{C}$)	17.81	17.07	17.01	
ORP	17.74	65.09	127.52	
Turbidity	5.89	19.4	19.1	

Table 3. Results quarterly sampling compared to Trigger Values.

Blakebrook Quarry Surface Water Sampling			
Site Name	SW1	SW2	SW3
Sample date	06/06/23	06/06/23	06/06/23
Site Type	Downstream	Upstream	Downstream
Trigger Value comparison			
pH Trigger Value	6.5-8.5	6.5-8.5	6.5-8.5
pH -Sample Date-06/06/2023	7.34	8.32	8.04
Outside of range	No	No	No
TSS (mg/L) Trigger Value	50	50	50
TSS (mg/L) -Sample Date-06/06/2023	4	17	13
Above Trigger Value	No	No	No
Oil and Grease -Sample Date-06/06/2023- Present or absent	Absent	Absent	Absent

Notes: Results above/outside of Trigger Values have been highlighted

Appendix B - Site Photos



**Site SW1 –
Creek (Downstream)
(06/06/2023)**



**ite SW2 –
Leycester Creek (Upstream)
(06/06/2023)**



**Site SW3 -
Leycester Creek
(Downstream)
(06/06/2023)**



**Site SW5 -
Drain (Downstream)
No Flow
(06/06/2023)**

Appendix C - Calibration certificate for Water Quality Meter

Calibration Report

Instrument Aqua TROLL 500
Serial Number 757823
Created 21/11/2022

Sensor **Turbidity**
Serial Number 754060
Last Calibrated Factory Defaults

Sensor **RDO**
Serial Number 754373
Last Calibrated 10/07/2022

Calibration Details

Slope 1
Offset -0.10 mg/L

Pre Measurement

RDO Concentration 8.74 mg/L

Post Measurement

RDO Concentration 8.75 mg/L

Sensor **pH/ORP**
Serial Number 742301
Last Calibrated 21/11/2022

Calibration Details

Calibration Point 1

pH of Buffer 4.01 pH
pH mV 96.0 mV
Temperature 29.11 °C

Pre Measurement

pH 4.22 pH
pH mV 96.0 mV

Post Measurement

pH 4.01 pH
pH mV 97.4 mV

Calibration Point 2

pH of Buffer 6.99 pH
pH mV -71.3 mV
Temperature 30.21 °C

Pre Measurement

pH 7.11 pH
pH mV -71.6 mV

Post Measurement

pH 6.99 pH
pH mV -72.6 mV

Slope and Offset 1

Slope -56.17 mV/pH
Offset -71.9 mV

ORP

ORP Solution Zobell's
Offset 55.0 mV
Temperature 30.27 °C
Pre Measurement 167.7 mV
Post Measurement 222.2 mV

Sensor **Conductivity**
Serial Number 756927
Last Calibrated 10/07/2022

Calibration Details

TDS Conversion Factor (ppm) 0.65
Cell Constant 0.873
Reference Temperature 20.00 °C

Appendix D. Full List of Sampling Analytes

Field

- pH
- Electrical Conductivity (EC)
- Dissolved Oxygen (DO)
- Temperature
- Oxidation Reduction Potential
- Oil and Grease
- Turbidity

Laboratory

- Nitrate
- Nitrite
- Phosphate
- Ammonium
- Total suspended Solids (TSS)

Appendix E - Chain of Custody Form

CHAIN OF CUSTODY																					
<div style="display: flex; align-items: center;"> <div style="font-size: 4em; font-weight: bold; margin-right: 10px;">eal</div> <div> Environmental Analysis Laboratory <small>Southern Cross University</small> </div> </div> <p>PO Box 157 (Military Road) LISMORE NSW 2480 P 02 6620 3678 F 02 6620 3957 eal@scu.edu.au, www.scu.edu.au/eal</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Submitting Client Details</th> <th style="text-align: left;">Billing Client Details</th> </tr> <tr> <td>Quote Id: EALQ5821</td> <td>ABN:</td> </tr> <tr> <td>Job Ref. SMC010-Blakebrook WQ- Surface Water- JUNE23</td> <td>Company Name: Ecoteam</td> </tr> <tr> <td>Company Name: Ecoteam</td> <td>Contact Person: [REDACTED]</td> </tr> <tr> <td>Contact Person: [REDACTED]</td> <td>Phone: 02 66215123</td> </tr> <tr> <td>Phone: 66215123</td> <td>Mobile: 0428215124</td> </tr> <tr> <td>Mobile: 0428215124</td> <td>Fax:</td> </tr> <tr> <td>Fax:</td> <td>Email: [REDACTED]</td> </tr> <tr> <td>Email: [REDACTED]</td> <td>Postal Address: 13 Ewing Street, Lismore</td> </tr> <tr> <td>Postal Address: 13 Ewing Street, Lismore</td> <td></td> </tr> </table>	Submitting Client Details	Billing Client Details	Quote Id: EALQ5821	ABN:	Job Ref. SMC010-Blakebrook WQ- Surface Water- JUNE23	Company Name: Ecoteam	Company Name: Ecoteam	Contact Person: [REDACTED]	Contact Person: [REDACTED]	Phone: 02 66215123	Phone: 66215123	Mobile: 0428215124	Mobile: 0428215124	Fax:	Fax:	Email: [REDACTED]	Email: [REDACTED]	Postal Address: 13 Ewing Street, Lismore	Postal Address: 13 Ewing Street, Lismore	
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Contact Person: [REDACTED]	Phone: 02 66215123																				
Phone: 66215123	Mobile: 0428215124																				
Mobile: 0428215124	Fax:																				
Fax:	Email: [REDACTED]																				
Email: [REDACTED]	Postal Address: 13 Ewing Street, Lismore																				
Postal Address: 13 Ewing Street, Lismore																					

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Comments:

Marketing Survey – where did you find us?

- ☐ Word of mouth ☐ Magazine ☐ Google search ☐ Other

Relinquished By: [REDACTED]	Date: 6/6/23	Signed: L.R.
Preservation: None / Ice / Ice b [REDACTED] Acidified / Filtered / Other:		
Received By: [REDACTED]	Date: 7/6/23	Signed: [REDACTED]
Condition on receipt: Ambient / <u>Cool</u> / Frozen / Other:		

Lab Sample No.	Sample ID	Sample Depth	Sampling Date	Your Client	Crop ID	Sample Type (e.g. water, leaf, soil)	SW	Nutrient	SW-PA											
1	SW1	300				Water	X	X												
2	SW2	300				Water	X	X												
3	SW3	300				Water	X	X												

EAL Chain of Custody
Issue: V1.1 27/09/2016

EAL Project Reference:

P1615x3 WATER

QFORM 4.2
Page 1 of 2

Appendix F. Full Laboratory Results

RESULTS OF WATER ANALYSIS

3 samples supplied by Ecoteam on 7/06/2023. Lab Job No. P1615.

Samples submitted by [REDACTED] Your Job: SMC010-Blakebrook WQ- Surface Water -June 23

13 Ewing Street LISMORE NSW 2480

Parameter	Methods reference	Sample 1	Sample 2	Sample 3
		SW 1	SW 2	SW 3
	<i>Job No.</i>	<i>P1615/1</i>	<i>P1615/2</i>	<i>P1615/3</i>
Total Suspended Solids (mg/L)	GFC equiv. filter - APHA 2540-D	4	17	13
Phosphate (mg/L P)	APHA 4500 P-G	0.008	0.022	0.022
Nitrate (mg/L N)	APHA 4500 NO ₃ ⁻ -F	<0.005	0.100	0.102
Nitrite (mg/L N)	APHA 4500 NO ₂ ⁻ -I	<0.005	<0.005	<0.005
Ammonia (mg/L N)	APHA 4500 NH ₃ -H	0.018	0.024	0.021

Notes:

- 1 mg/L (milligram per litre) = 1 ppm (part per million) = 1000 µg/L (micrograms per litre) = 1000 ppb (part per billion).
- Analysis performed according to APHA (2017) 'Standard Methods for the Examination of Water & Wastewater', 23rd Edition, except where stated otherwise.
- Analysis conducted between sample arrival date and reporting date.
- ** NATA accreditation does not cover the performance of this service.
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- All services undertaken by EAL are covered by the EAL Laboratory Services Terms and Conditions (refer scu.edu.au/eal or on request).
- Results relate only to the samples tested.
- This report was issued on 20/06/2023.



Tuesday 19th September 2023

Environmental Engineer & Director

To: [REDACTED]
Compliance Officer, Lismore City Council
Blakebrook Quarry Water Quality Sampling

mob: 0428-215-124
office: (02) 66-215-123
fax: (02) 66-218-123
ABN: 82 106 758 123

Re: Surface Water Quality Monitoring Results & Report for Blakebrook Quarry

Reporting period: 1st June 2023 to 1st September 2023

1.0 INTRODUCTION

Ecoteam is engaged to undertake quarterly surface water quality on behalf of Lismore City Council for the Blakebrook Quarry. This report presents results from the September 2023 sampling round.

2.0 PROJECT AIMS AND SAMPLING OBJECTIVES

The aim of the surface water monitoring program is to monitor surface water quality surrounding the Blakebrook Quarry site as per Northern Rivers Quarry - Blakebrook Quarry Monitoring Procedure (Surface Water) - Work Method Statement 3. The project objectives are to detect changes in water quality within surface water that may be a result of the Blakebrook Quarry activities.

3.0 SAMPLING LOCATIONS

Samples were collected from 4 of the 4 surface water sample sites. Sample codes and corresponding sampling locations are shown in **Table 1** and **Figure 1**.

Table 1. Quarterly surface water sampling sites, sample codes, and site information.

Location	Easting	Northing	Description
SW1	523693	6818008	Flow under Nimbin Road, downstream of LPD1 and LPD2
SW2	523124	6817955	Upstream of site, discharges in Terania Creek
SW3	523422	6817156	Downstream of site, discharges in Terania Creek
SW5	523807	6817669	Flow under Nimbin Road, downstream of LPD3

Appendix A - Sampling Locations in blue

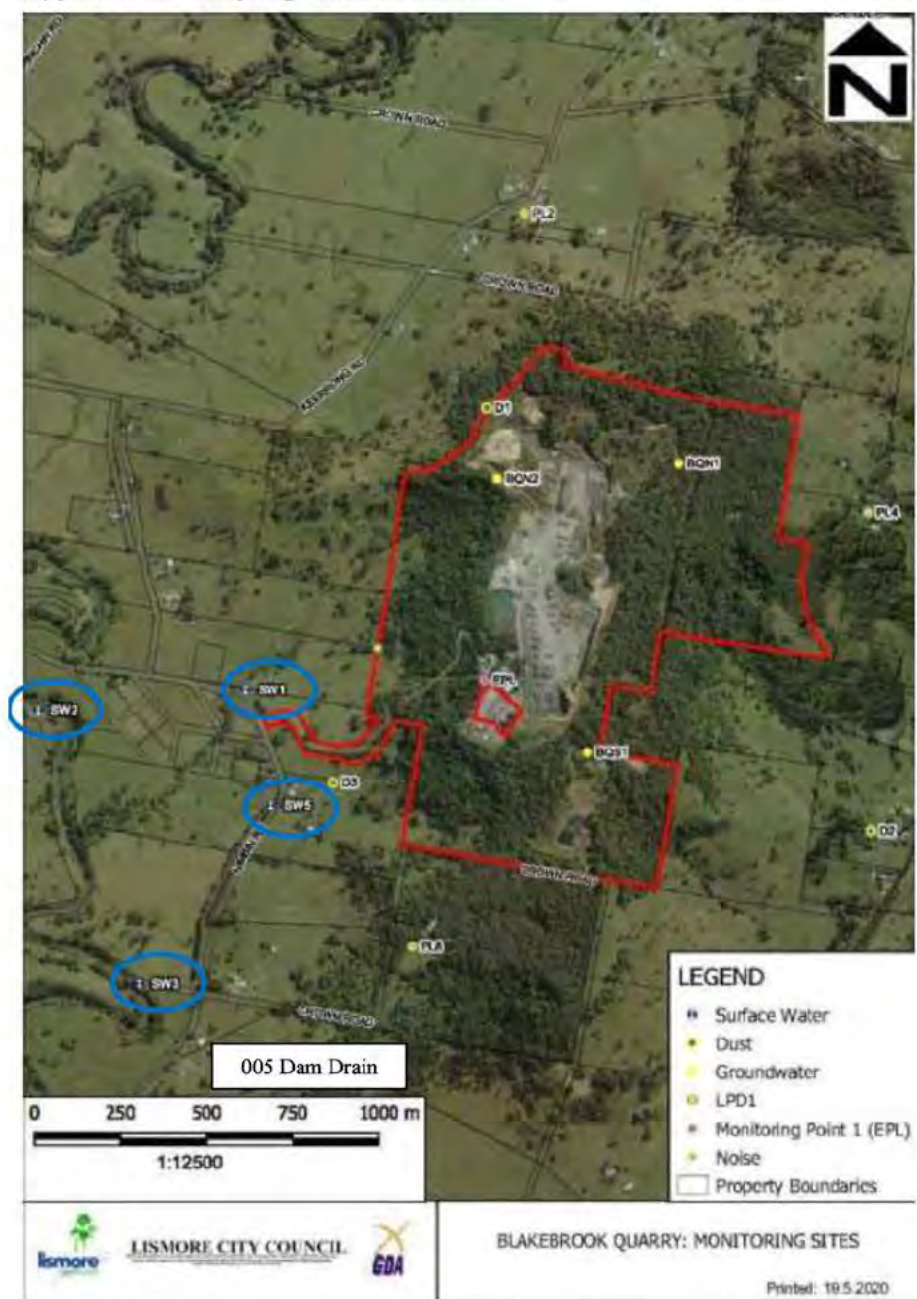


Figure 1. Map of monthly of surface water sampling sites (Source: Lismore City Council)

4.0 SAMPLING METHODOLOGY

Sampling was undertaken by [REDACTED] and [REDACTED] on Monday 4th September 2023. In situ, physico-chemical measurements were collected using an Aquatroll Water Quality Meter. Oil and Grease was visually assessed. The calibration certificate for the water quality meter is included as **Appendix C**. Sample collection methods and in-situ results are presented in **Appendix A (Table 2)**. A comparison of results to Trigger Values are presented in **Table 3**. Photographs of sample locations taken during sampling are presented in **Appendix B**.

Samples were stored on ice and dropped off at the Environmental Analysis Laboratory (EAL) in Lismore. Samples were not field filtered. A full list of analytes for the project are included in **Appendix D**.

5.0 RESULTS

5.1 Physico-chemical Results

In situ, physico-chemical sampling results are shown in **Appendix A (Table 2)**. A comparison of results to Trigger Values are presented in **Table 3**. Site SW5 was not sampled as there was no flow at the time of sampling. There were no surface sheens visible at any sites, therefore Oil and Grease was not present.

- pH inside the Trigger Value range at all sites.
- Visible oil and grease were not present at any site.

5.2 Laboratory Results

The chain of custody form is included in **Appendix E**. A full copy of the laboratory results is included as **Appendix F**. A comparison of results to Trigger Values are presented in **Table 3**.

- TSS was below the Trigger Value at all sites.

6.0 COMMENTS AND RECOMMENDATIONS

All parameters were within/below the Trigger Values at all sites.

Kind regards,

[Redacted Signature]

Environmental Engineer & Director

[Redacted Name]

mob: 0428-215-124

office: (02) 66-215-123

fax: (02) 66-218-123

ABN: 82 106 758 123

APPENDIX A – Water Quality Result

Table 2. Results of physico-chemical parameters collected in situ at quarterly sampling.

Blakebrook Surface Water Sample Information				
Site Name	SW1	SW2	SW3	SW5
Site Type	Downstream	Upstream	Downstream	Downstream
Date	04/09/23	04/09/23	04/09/23	04/09/23
Time	13:05	13:30	13:45	13:40
Sample Method	Grab Sample 300mm deep	Grab Sample 300mm deep	Grab Sample 300mm deep	Not sampled
Oil and Grease	Not Present	Not Present	Not Present	Not Present
Odour	Not Present	Not Present	Not Present	Not Present
Site/Water Observations	Low flow, low turbidity.	Low flow, moderate turbidity.	Low flow, moderate turbidity.	Not flowing
Analyte	Water Quality Observations			
pH	7.56	8.32	8.26	
EC $\mu\text{S}/\text{cm}$	803.89	186.55	197.09	
DO (%)	72.96	94.67	98.81	
Temperature ($^{\circ}\text{C}$)	19.47	19.01	19.60	
ORP	-1.60	49.81	97.27	
Turbidity	7.24	20.6	19.0	

Table 3. Results quarterly sampling compared to Trigger Values.

Blakebrook Quarry Surface Water Sampling			
Site Name	SW1	SW2	SW3
Sample date	04/09/23	04/09/23	04/09/23
Site Type	Downstream	Upstream	Downstream
Trigger Value comparison			
pH Trigger Value	6.5-8.5	6.5-8.5	6.5-8.5
pH -Sample Date-04/09/2023	7.56	8.32	8.26
Outside of range	No	No	No
TSS (mg/L) Trigger Value	50	50	50
TSS (mg/L) -Sample Date-04/09/2023	6	17	19
Above Trigger Value	No	No	No
Oil and Grease -Sample Date-06/06/2023- Present or absent	Absent	Absent	Absent

Notes: Results above/outside of Trigger Values have been highlighted

Appendix B - Site Photos



**Site SW1 –
Creek (Downstream)
(04/09/2023)**



**Site SW2 –
Leycester Creek (Upstream)
(04/09/2023)**



**Site SW3 -
Leycester Creek
(Downstream)
(04/09/2023)**



**Site SW5 -
Drain (Downstream)
No Flow
(04/09/2023)**

Appendix C - Calibration certificate for Water Quality Meter

Calibration Report

Instrument Aqua TROLL 500
Serial Number 757823
Created 21/11/2022

Sensor **Turbidity**
Serial Number 754060
Last Calibrated Factory Defaults

Sensor **RDO**
Serial Number 754373
Last Calibrated 10/07/2022

Calibration Details

Slope 1
Offset -0.10 mg/L

Pre Measurement

RDO Concentration 8.74 mg/L

Post Measurement

RDO Concentration 8.75 mg/L

Sensor **pH/ORP**
Serial Number 742301
Last Calibrated 21/11/2022

Calibration Details

Calibration Point 1

pH of Buffer 4.01 pH
pH mV 96.0 mV
Temperature 29.11 °C

Pre Measurement

pH 4.22 pH
pH mV 96.0 mV

Post Measurement

pH 4.01 pH
pH mV 97.4 mV

Calibration Point 2

pH of Buffer 6.99 pH
pH mV -71.3 mV
Temperature 30.21 °C

Pre Measurement

pH 7.11 pH
pH mV -71.6 mV

Post Measurement

pH 6.99 pH
pH mV -72.6 mV

Slope and Offset 1

Slope -56.17 mV/pH
Offset -71.9 mV

ORP

ORP Solution Zobell's
Offset 55.0 mV
Temperature 30.27 °C
Pre Measurement 167.7 mV
Post Measurement 222.2 mV

Sensor **Conductivity**
Serial Number 756927
Last Calibrated 10/07/2022

Calibration Details

TDS Conversion Factor (ppm) 0.65
Cell Constant 0.873
Reference Temperature 20.00 °C

Appendix D. Full List of Sampling Analytes

Field

- pH
- Electrical Conductivity (EC)
- Dissolved Oxygen (DO)
- Temperature
- Oxidation Reduction Potential
- Oil and Grease
- Turbidity

Laboratory

- Nitrate
- Nitrite
- Phosphate
- Ammonium
- Total suspended Solids (TSS)

Appendix E - Chain of Custody Form

CHAIN OF CUSTODY																																																																																																																					
<div style="display: flex; align-items: center;"> <div style="font-size: 2em; font-weight: bold; margin-right: 10px;">eal</div> <div> Environmental Analysis Laboratory <small>Southern Cross University</small> </div> </div> <p>PO Box 157 (Military Road) LISMORE NSW 2480 P 02 6620 3678 F 02 6620 3957 eal@scu.edu.au, www.scu.edu.au/eal</p>			Submitting Client Details Quote Id: EALQ5821 Job Ref: SMC010-Blakebrook WQ- Surface Water- SEPT23 Company Name: Ecoteam Contact Person: [REDACTED] Phone: 66215123 Mobile: 0428215124 Fax: Email: [REDACTED] Postal Address: 13 Ewing Street, Lismore				Billing Client Details ABN: Company Name: Ecoteam Contact Person: [REDACTED] Phone: 02 66215123 Mobile: 0428215124 Fax: Email: [REDACTED] Postal Address: 13 Ewing Street, Lismore																																																																																																														
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Payment Method: <input type="checkbox"/> Purchase Order <input type="checkbox"/> Cheque <input type="checkbox"/> Invoice (prior approval required) <input type="checkbox"/> Credit Card Mastercard / Visa No: _____ / _____ / _____ Exp. Date: _____ Name on Card: _____ CVV: _____				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Relinquished By: [REDACTED]</td> <td style="width: 20%;">Date: 4/9/23</td> <td style="width: 40%;">Signed: [Signature]</td> </tr> <tr> <td colspan="3">Preservation: No _____ Acidified / Filtered / Other: _____</td> </tr> <tr> <td>Received By: [Signature]</td> <td>Date: 4.9.23</td> <td>Time: 3pm</td> </tr> <tr> <td colspan="3">Condition on receipt: Ambient / <u>Cool</u> / Frozen / Other: _____</td> </tr> </table>			Relinquished By: [REDACTED]	Date: 4/9/23	Signed: [Signature]	Preservation: No _____ Acidified / Filtered / Other: _____			Received By: [Signature]	Date: 4.9.23	Time: 3pm	Condition on receipt: Ambient / <u>Cool</u> / Frozen / Other: _____																																																																																																					
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Comments: _____ _____ _____ _____ _____ Marketing Survey – where did you find us? <input type="checkbox"/> Word of mouth <input type="checkbox"/> Magazine <input type="checkbox"/> Google search <input type="checkbox"/> Other				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="10" style="text-align: center;">Sample Analysis Request</th> </tr> <tr> <th colspan="10" style="text-align: center;">Price List Code (e.g. SW-PACK-06)</th> </tr> <tr> <td rowspan="2" style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: 0.8em;">TSS- SWSING-003</td> <td rowspan="2" style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: 0.8em;">Nutrients- Dissolved- SW-PACK-020</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>						Sample Analysis Request										Price List Code (e.g. SW-PACK-06)										TSS- SWSING-003	Nutrients- Dissolved- SW-PACK-020																																																																																						
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EAL Chain of Custody
Issue: V1.1 27/09/2016

EAL Project Reference:

P 4894

3x water

QFORM 4.2
Page 1 of 2

Appendix F. Full Laboratory Results

RESULTS OF WATER ANALYSIS

3 samples supplied by Ecoteam on 4/09/2023. Lab Job No. P4894.

Samples submitted by [REDACTED]. Your Job: SMC010-Blakebrook WQ-Surface Water_SEPT23

13 Ewing Street LISMORE NSW 2480

Parameter	Methods reference	Sample 1	Sample 2	Sample 3
		SW1	SW2	SW3
	<i>Job No.</i>	<i>P4894/1</i>	<i>P4894/2</i>	<i>P4894/3</i>
Total Suspended Solids (mg/L)	GFC equiv. filter - APHA 2540-D	6	17	19
Phosphate (mg/L P)	APHA 4500 P-G	0.006	0.017	0.017
Nitrate (mg/L N)	APHA 4500 NO ₃ -F	<0.005	0.008	<0.005
Nitrite (mg/L N)	APHA 4500 NO ₂ -I	<0.005	<0.005	<0.005
Ammonia (mg/L N)	APHA 4500 NH ₃ -H	0.011	<0.005	0.008

Notes:

- 1 mg/L (milligram per litre) = 1 ppm (part per million) = 1000 µg/L (micrograms per litre) = 1000 ppb (part per billion).
- Analysis performed according to APHA (2017) 'Standard Methods for the Examination of Water & Wastewater', 23rd Edition, except where stated otherwise.
- Analysis conducted between sample arrival date and reporting date.
- ** NATA accreditation does not cover the performance of this service.
- ... Denotes not requested.
- This report is not to be reproduced except in full.
- All services undertaken by EAL are covered by the EAL Laboratory Services Terms and Conditions (refer scu.edu.au/eal or on request).
- Results relate only to the samples tested.
- This report was issued on 7/09/2023.



WORLD RECOGNISED
ACCREDITATION
Accreditation No. 14960
Accredited for compliance
with ISO/IEC 17025 - Testing

Tuesday 19th December 2023

Environmental Engineer & Director

To: [REDACTED]
Compliance Officer, Lismore City Council
Blakebrook Quarry Water Quality Sampling

mob: 0428-215-124
office: (02) 66-215-123
fax: (02) 66-218-123
ABN: 82 106 758 123

Re: Surface Water Quality Monitoring Results & Report for Blakebrook Quarry

Reporting period: 1st September 2023 to 1st December 2023

1.0 INTRODUCTION

Ecoteam is engaged to undertake quarterly surface water quality on behalf of Lismore City Council for the Blakebrook Quarry. This report presents results from the December 2023 sampling round.

2.0 PROJECT AIMS AND SAMPLING OBJECTIVES

The aim of the surface water monitoring program is to monitor surface water quality surrounding the Blakebrook Quarry site as per Northern Rivers Quarry - Blakebrook Quarry Monitoring Procedure (Surface Water) - Work Method Statement 3. The project objectives are to detect changes in water quality within surface water that may be a result of the Blakebrook Quarry activities.

3.0 SAMPLING LOCATIONS

Samples were collected from 3 of the 4 surface water sample sites. Sample codes and corresponding sampling locations are shown in **Table 1** and **Figure 1**.

Table 1. Quarterly surface water sampling sites, sample codes, and site information.

Location	Easting	Northing	Description
SW1	523693	6818008	Flow under Nimbin Road, downstream of LPD1 and LPD2
SW2	523124	6817955	Upstream of site, discharges in Terania Creek
SW3	523422	6817156	Downstream of site, discharges in Terania Creek
SW5	523807	6817669	Flow under Nimbin Road, downstream of LPD3

Appendix A - Sampling Locations in blue

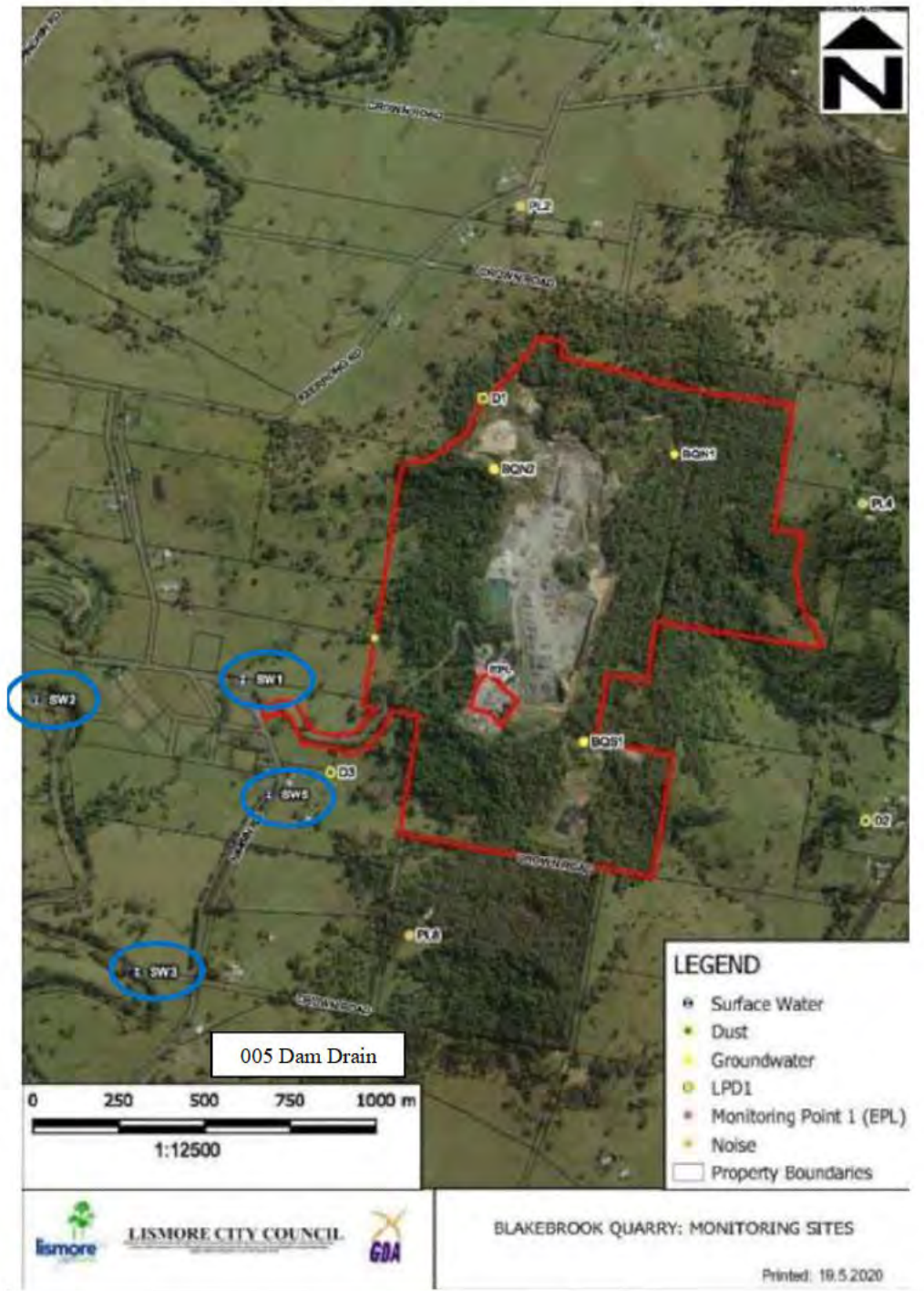


Figure 1. Map of monthly of surface water sampling sites (Source: Lismore City Council)

4.0 SAMPLING METHODOLOGY

Sampling was undertaken by [REDACTED] and [REDACTED] on Monday 4th December 2023. In situ, physico-chemical measurements were collected using an Aquatroll Water Quality Meter. Oil and Grease was visually assessed. The calibration certificate for the water quality meter is included as **Appendix C**. Sample collection methods and in-situ results are presented in **Appendix A (Table 2)**. A comparison of results to Trigger Values are presented in **Table 3**. Photographs of sample locations taken during sampling are presented in **Appendix B**.

Samples were stored on ice and dropped off at the Environmental Analysis Laboratory (EAL) in Lismore. Samples were not field filtered. A full list of analytes for the project are included in **Appendix D**.

5.0 RESULTS

5.1 Physico-chemical Results

In situ, physico-chemical sampling results are shown in **Appendix A (Table 2)**. A comparison of results to Trigger Values are presented in **Table 3**. Site SW5 was not sampled as there was no flow at the time of sampling. There were no surface sheens visible at any sites, therefore Oil and Grease was not present.

- pH inside the Trigger Value range at all sites.
- Visible oil and grease were not present at any site.

5.2 Laboratory Results

The chain of custody form is included in **Appendix E**. A full copy of the laboratory results is included as **Appendix F**. A comparison of results to Trigger Values are presented in **Table 3**.

- TSS was below the Trigger Value at all sites.

6.0 COMMENTS AND RECOMMENDATIONS

All parameters were within/below the Trigger Values at all sites.

Kind regards,

[Redacted Signature]

Environmental Engineer & Director

[Redacted Name]

mob: 0428-215-124

office: (02) 66-215-123

fax: (02) 66-218-123

ABN: 82 106 758 123

APPENDIX A – Water Quality Result

Table 2. Results of physico-chemical parameters collected in situ at quarterly sampling.

Blakebrook Surface Water Sample Information				
Site Name	SW1	SW2	SW3	SW5
Site Type	Downstream	Upstream	Downstream	Downstream
Date	04/12/23	04/12/23	04/12/23	04/12/23
Time	14:22	14:39	14:47	14:40
Sample Method	Grab Sample 300mm deep	Grab Sample 300mm deep	Grab Sample 300mm deep	Not sampled
Oil and Grease	Not Present	Not Present	Not Present	Not Present
Odour	Not Present	Not Present	Not Present	Not Present
Site/Water Observations	Low flow, low turbidity.	Low flow, moderate turbidity.	Low flow, moderate turbidity.	Not flowing
Analyte	Water Quality Observations			
pH	7.27	7.97	8.46	
EC $\mu\text{S}/\text{cm}$	584.00	175.74	193.92	
DO (%)	23.18	113.29	134.54	
Temperature ($^{\circ}\text{C}$)	25.12	29.83	30.57	
ORP	7.14	84.42	196.56	
Turbidity	10.21	29.1	30.3	

Table 3. Results quarterly sampling compared to Trigger Values.

Blakebrook Quarry Surface Water Sampling			
Site Name	SW1	SW2	SW3
Sample date	04/12/23	04/12/23	04/12/23
Site Type	Downstream	Upstream	Downstream
Trigger Value comparison			
pH Trigger Value	6.5-8.5	6.5-8.5	6.5-8.5
pH -Sample Date-04/12/2023	7.27	7.97	8.46
Outside of range	No	No	No
TSS (mg/L) Trigger Value	50	50	50
TSS (mg/L) -Sample Date-04/12/2023	14	19	19
Above Trigger Value	No	No	No
Oil and Grease -Sample Date-04/12/2023- Present or absent	Absent	Absent	Absent

Notes: Results above/outside of Trigger Values have been highlighted

Appendix B - Site Photos



**Site SW1 –
Creek (Downstream)
(04/12/2023)**



**Site SW2 –
Leycester Creek (Upstream)
(04/12/2023)**



**Site SW3 -
Leycester Creek
(Downstream)
(04/12/2023)**



**Site SW5 -
Drain (Downstream)
No Flow
(04/12/2023)**

Appendix C - Calibration certificate for Water Quality Meter

Calibration Report

Instrument Aqua TROLL 400
Serial Number 1008667
Created 19/12/2023

Serial Number 997760
Last Calibrated 12/12/2023

Calibration Details

Slope 1.0836252
Offset -0.00 mg/L

Calibration point 100%

Concentration 7.83 mg/L
Temperature 23.88 °C
Barometric Pressure 1,019.4 mbar

Serial Number 1008667
Last Calibrated 12/12/2023

Calibration Details

Cell Constant 0.905
Reference Temperature 25.00 °C
TDS Conversion Factor (ppm) 0.65

Serial Number 996085
Last Calibrated 12/12/2023

Calibration Details

Zero Offset -0.08 psi
Reference Depth 0.00 ft
Reference Offset 0.00 psi

Serial Number 22164
Last Calibrated 12/12/2023

Calibration Details

Total Calibration Points 2

Calibration Point 1

pH of Buffer 4.00 pH
pH mV 130.2 mV
Temperature 23.70 °C

Calibration Point 2

pH of Buffer 7.00 pH
pH mV -43.3 mV
Temperature 23.79 °C

Slope and Offset 1

Slope -57.85 mV/pH
Offset -43.3 mV

ORP

ORP Solution Zobell's
Offset 42.5 mV
Temperature 23.92 °C

Appendix D. Full List of Sampling Analytes

Field

- pH
- Electrical Conductivity (EC)
- Dissolved Oxygen (DO)
- Temperature
- Oxidation Reduction Potential
- Oil and Grease
- Turbidity

Laboratory

- Nitrate
- Nitrite
- Phosphate
- Ammonium
- Total suspended Solids (TSS)

Appendix E - Chain of Custody Form

CHAIN OF CUSTODY

<div style="text-align: center;">  <p>eal Environmental Analysis Laboratory Southern Cross University</p> </div> <p>PO Box 157 (Military Road) LISMORE NSW 2480 P 02 6620 3678 F 02 6620 3957 eal@scu.edu.au www.scu.edu.au/eal</p>	Submitting Client Details Quote Id: EALQ5821 Job Ref: SMC010-Blakebrook WQ- Surface Water- Company Name: Ecoteam Contact Person: [REDACTED] Phone: 66215123 Mobile: 0428215124 Fax: [REDACTED] Email: [REDACTED] Postal Address: 13 Ewing Street, Lismore	Billing Client Details ABN: [REDACTED] Company Name: Ecoteam Contact Person: [REDACTED] Phone: 02 66215123 Mobile: 0428215124 Fax: [REDACTED] Email: [REDACTED] Postal Address: 13 Ewing Street, Lismore
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This section will be destroyed after being processed. Only Complete CVV number if you are supplying the original hardcopy to EAL.

Date Signed

Payment Method:

- ☐ Purchase Order
☐ Cheque
☐ Invoice (prior approval required)
☐ Credit Card Mastercard / Visa No: _____ / _____ / _____

Exp. Date: _____ Name on Card: _____ CVV: _____

Comments:

Marketing Survey – where did you find us?

- ☐ Word of mouth ☐ Magazine ☐ Google search ☐ Other

Relinquished By: _____	Date: _____	Signed: _____
Preservation: <u>None</u> / Ice / Ice bricks / Acidified / Filtered / Other: _____		
Received By: <u>AM</u>	4/12	3:37pm
Condition on receipt: <u>Ambient</u> / Cool / Frozen / Other: _____		

Lab Sample No.	Sample ID	Sample Depth	Sampling Date	Your Client	Crop ID	Sample Type (e.g. water, leaf, soil)	TSS- SWSING-003	Nutrients- Dissolved- SW-PACK-020							
	SW1	300	04/12/23	23.3°C		Water	X	X							
	SW2	300	04/12/23	27.3°C		Water	X	X							
	SW3	300	04/12/23	28.8°C		Water	X	X							

EAL Chain of Custody
Issue: V1.1 27/09/2016

EAL Project Reference:

P8330 x 3 WATER

QFORM 4.2
Page 1 of 2

Appendix F. Full Laboratory Results

RESULTS OF WATER ANALYSIS

3 samples supplied by Ecoteam on 4/12/2023. Lab Job No. P8330.

Samples submitted by [REDACTED] Your Job: SMC010-Blakebrook WQ- Surface Water - DEC23

13 Ewing Street LISMORE NSW 2480

Parameter	Methods reference	Sample 1	Sample 2	Sample 3
		SW1	SW2	SW3
	Job No.	P8330/1	P8330/2	P8330/3
Total Suspended Solids (mg/L)	GFC equiv. filter - APHA 2540-D	14	19	19
Phosphate (mg/L P)	APHA 4500 P-G	0.019	0.053	0.052
Nitrate (mg/L N)	APHA 4500 NO ₃ ⁻ -F	0.025	0.024	<0.005
Nitrite (mg/L N)	APHA 4500 NO ₂ ⁻ -I	0.006	0.007	<0.005
Ammonia (mg/L N)	APHA 4500 NH ₃ -H	0.046	0.017	0.019

Notes:

- 1 mg/L (milligram per litre) = 1 ppm (part per million) = 1000 µg/L (micrograms per litre) = 1000 ppb (part per billion).
- Analysis performed according to APHA (2017) 'Standard Methods for the Examination of Water & Wastewater', 23rd Edition, except where stated otherwise.
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- Results relate only to the samples tested.
- This report was issued on 12/12/2023.



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ACCREDITATION

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Accredited for compliance
with ISO/IEC 17025 - Testing



Appendix V

Groundwater Monitoring Results

Site	Date	pH	Conductivity (EC) (uS/m)	Total Oils and Grease (mg/L)	Iron - Total (mg/L)	Lead - Total (mg/L)	Iron - Dissolved (mg/L)	Lead - Dissolved (mg/L)	C10-C16 Fraction (ug/L or ppb)	C16-C34 Fraction (ug/L or ppb)	C34-C40 Fraction (ug/L or ppb)	Benzene (ug/L or ppb)	Toluene (ug/L or ppb)	Ethylbenzene (ug/L or ppb)	m/p-Xylene (ug/L or ppb)	o-Xylene (ug/L or ppb)	Naphthalene (ug/L or ppb)	Sodium (mg/L)	Potassium (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Chloride (mg/L)	Sulfate (mg/L)
BQS1-S interim triggers																							
BQS1-S	2/03/2023	6.85	0.440	<2	4.724	0.004	0.0406	<0.001	<50	<100	<100	<0.5	<0.5	<0.5	<1	<0.5	<0.5	52.1	3.4	32.3	14.8	25.7	<9
BQS1-S	7/06/2023	6.68	0.281	<2	0.154	0.002	0.0092	<0.001	<50	<100	<100	<0.5	<0.5	<0.5	<1	<0.5	<0.5	42.4	3.6	18.4	6.4	24.3	<9
BQS1-S	4/09/2023	6.83	0.220	<2	0.759	0.002	<0.005	<0.001	<60	<500	<500	<0.5	<0.5	<0.5	<1	<0.5	<0.5	40.5	3.3	16.8	6.4	20.5	<9
BQS1-S	4/12/2023	6.66	0.300	4.0	0.443	0.002	<0.005	<0.001	<50	<100	<100	<0.5	<0.5	<0.5	<1	<0.5	<0.5	37.2	3.0	17.9	6.2	21.8	10.1
BQS1-I interim triggers																							
BQS1-I	2/03/2023	8.00	1.275	<2	0.128	0.002	0.011	<0.001	<50	<100	<100	<0.5	<0.5	<0.5	<1	<0.5	<0.5	257.5	5.0	26.7	5.2	289.2	11.4
BQS1-I	7/06/2023	7.94	1.256	<2	0.055	<0.001	0.0151	<0.001	<50	<100	<100	<0.5	<0.5	<0.5	<1	<0.5	<0.5	269.0	5.4	28.6	5.4	308.4	10.5
BQS1-I	4/09/2023	8.00	1.020	<2	0.100	0.001	0.0169	<0.001	<60	<500	<500	<0.5	<0.5	<0.5	<1	<0.5	<0.5	267.9	5.0	25.7	5.2	325.0	10.1
BQS1-I	4/12/2023	8.10	1.239	6.4	0.057	<0.001	0.008	<0.001	<50	<100	<100	<0.5	<0.5	<0.5	<1	<0.5	<0.5	241.1	4.5	25.7	4.5	304.4	11.8
BQS1-D interim triggers																							
BQS1-D	2/03/2023	7.74	1.684	2.5	0.237	0.005	0.026	0.001	170	140	<100	<0.5	<0.5	<0.5	<1	<0.5	<0.5	338.4	3.9	13.0	1.9	480.4	35.1
BQS1-D	7/06/2023	7.605	1.682	4.8	0.060	<0.001	0.0054	<0.001	<50	<100	<100	<0.5	<0.5	<0.5	<1	<0.5	<0.5	375.1	4.0	14.2	1.9	492.9	31.3
BQS1-D	4/09/2023	8.07	1.320	6.5	0.225	0.001	0.0098	<0.001	<60	<500	<500	<0.5	<0.5	<0.5	<1	<0.5	<0.5	365.2	4.0	12.7	1.9	474.3	31.4
BQS1-D	4/12/2023	8.06	1.710	5.6	0.043	<0.001	<0.005	<0.001	<50	<100	<100	<0.5	<0.5	<0.5	<1	<0.5	<0.5	324.0	3.5	12.9	1.7	465.0	39.8
BQN1-S interim triggers																							
BQN1-S	2/03/2023	7.06	0.997	2.8	2.136	0.001	0.254	<0.001	<50	<100	<100	<0.5	<0.5	<0.5	<1	<0.5	<0.5	173.5	3.8	27.0	18.4	217.1	11.7
BQN1-S	7/06/2023	6.91	0.909	4.2	2.457	0.004	0.0651	<0.001	<50	<100	<100	<0.5	<0.5	<0.5	<1	<0.5	<0.5	186.9	4.4	31.2	19.6	237.2	<9
BQN1-S	4/09/2023	7.10	0.850	7.6	2.260	<0.001	0.8565	<0.001	<60	<500	<500	<0.5	<0.5	<0.5	<1	<0.5	<0.5	178.0	3.9	28.2	19.4	239.0	9.9
BQN1-S	4/12/2023	7.21	1.023	7.9	1.815	<0.001	0.499	<0.001	<50	<100	<100	<0.5	<0.5	<0.5	<1	<0.5	<0.5	165.5	3.6	29.0	18.4	290.6	13.7
BQN1-I interim triggers																							
BQN1-I	2/03/2023	8.70	1.741	2.2	21.491	0.018	0.015	<0.001	<50	<100	<100	<0.5	<0.5	<0.5	<1	<0.5	<0.5	337.0	7.0	179.5	26.2	530.7	24.1
BQN1-I	7/06/2023	10.38	1.509	5.0	1.133	0.008	<0.005	<0.001	<50	<100	<100	<0.5	<0.5	<0.5	<1	<0.5	<0.5	341.4	8.5	75.8	8.6	549.0	22.6
BQN1-I	4/09/2023	11.27	1.520	4.3	0.606	0.004	0.005	<0.001	<60	<500	<500	<0.5	<0.5	<0.5	<1	<0.5	<0.5	311.6	8.9	55.4	3.3	502.7	21.3
BQN1-I	4/12/2023	11.34	1.846	8.1	0.221	0.002	<0.005	<0.001	<50	<100	<100	<0.5	<0.5	<0.5	<1	<0.5	<0.5	281.9	8.6	67.3	3.0	472.6	24.4
BQN1-D interim triggers																							
BQN1-D	2/03/2023	8.05	1.365	<2	2.179	0.003	<0.005	<0.001	<50	<100	<100	<0.5	<0.5	<0.5	<1	<0.5	<0.5	283.6	2.6	10.1	1.8	317.2	65.0
BQN1-D	7/06/2023	8.44	1.222	7.2	1.469	0.003	<0.005	<0.001	<50	<100	<100	<0.5	<0.5	<0.5	<1	<0.5	<0.5	276.2	3.0	11.4	2.0	317.5	52.4
BQN1-D	4/09/2023	8.52	1.000	4.0	0.483	0.004	0.009	<0.001	<60	<500	<500	<0.5	<0.5	<0.5	<1	<0.5	<0.5	270.6	2.1	7.8	0.9	323.0	46.5
BQN1-D	4/12/2023	8.54	1.278	7.7	0.625	<0.001	<0.005	<0.001	<50	<100	<100	<0.5	<0.5	<0.5	<1	<0.5	<0.5	252.9	2.1	8.7	0.9	312.8	56.8
BQN2-S interim triggers																							
BQN2-S	2/03/2023	10.30	0.925	<2	0.330	0.007	<0.005	<0.001	<50	<100	<100	<0.5	<0.5	<0.5	<1	<0.5	<0.5	180.7	6.6	37.8	6.0	227.3	25.2
BQN2-S	7/06/2023	10.26	0.932	3.8	0.277	0.002	<0.005	<0.001	<50	670	<100	<0.5	<0.5	<0.5	<1	<0.5	<0.5	189.4	6.9	26.7	3.9	259.0	22.8
BQN2-S	4/09/2023	9.00	0.910	4.9	0.244	0.001	0.007	<0.001	<60	<500	<500	<0.5	<0.5	<0.5	<1	<0.5	<0.5	222.7	6.8	23.6	5.3	292.5	26.1
BQN2-S	4/12/2023	9.74	0.976	5.1	0.232	0.001	<0.005	<0.001	<50	<100	<100	<0.5	<0.5	<0.5	<1	<0.5	<0.5	172.3	5.7	21.2	3.4	248.4	26.0

BQN2-I interim triggers	8.67	1.200	6.9	0.301	0.002																		
BQN2-I	2/03/2023	7,13	0,394	<2	0,171	0.005	<0,005	<0,001	<50	<100	<100	<0,5	<0,5	<0,5	<1	<0,5	<0,5	64,4	3,9	17,6	7,5	49,0	12,3
BQN2-I	7/06/2023	7,59	0,470	<2	0,039	<0,001	<0,005	<0,001	<50	<100	<100	<0,5	<0,5	<0,5	<1	<0,5	<0,5	86,0	5,5	30,1	8,8	71,2	13,2
BQN2-I	4/09/2023	7,53	0,390	3,2	0,142	0.003	<0,005	<0,001	<60	<500	<500	<0,5	<0,5	<0,5	<1	<0,5	<0,5	79,6	4,5	22,2	9,7	70,8	12,6
BQN2-I	4/12/2023	7,72	0,553	5,1	0,078	0,002	<0,005	<0,001	<50	<100	<100	<0,5	<0,5	<0,5	<1	<0,5	<0,5	76,3	4,6	33,1	8,9	74,7	17,3
BQN2-D - interim triggers	8.85	1.014	4.0	3.904	0.005																		
BQN2-D	2/03/2023	8,72	0,849	<2	0,104	0.007	<0,005	<0,001	<50	<100	<100	<0,5	<0,5	<0,5	<1	<0,5	<0,5	219,4	2,0	3,2	0,5	103,3	20,9
BQN2-D	7/06/2023	8,72	0,862	4,4	0,132	0,004	0,0082	<0,001	77	780	<100	<0,5	<0,5	<0,5	<1	<0,5	<0,5	234,0	2,9	3,6	0,5	106,8	19,2
BQN2-D	4/09/2023	8,89	0,690	3,1	0,185	0,003	<0,005	<0,001	<60	<500	<500	<0,5	<0,5	<0,5	<1	<0,5	<0,5	221,5	2,0	3,3	0,5	111,0	20,4
BQN2-D	4/12/2023	8,78	0,888	7,0	0,088	0,003	<0,005	<0,001	<50	<100	<100	<0,5	<0,5	<0,5	<1	<0,5	<0,5	206,2	1,9	3,4	0,5	108,8	23,1

Friday 31st March 2023 -Revision 2

Environmental Engineer &
Director

To: [REDACTED]
Compliance Officer, Lismore City Council Blakebrook
Quarry Water Quality Sampling

lise@ecoteam.com.au
mob: 0428-215-124
office: (02) 66-215-123
fax: (02) 66-218-123
ABN: 82 106 758 123

Re: Groundwater Quality Monitoring Results & Report for Blakebrook Quarry
Reporting period: 1st December 2022 to 1st March 2023

1.0 INTRODUCTION

Ecoteam is engaged to undertake quarterly groundwater quality and water level monitoring on behalf of Lismore City Council for the Blakebrook Quarry, Blakebrook, NSW. This report presents results from the March 2023 sampling round.

2.0 PROJECT AIMS AND SAMPLING OBJECTIVES

The aim of the groundwater monitoring is to monitor groundwater quality and water levels at the Blakebrook Quarry site as per Northern Rivers Quarry - Blakebrook Quarry Monitoring Procedure (Groundwater) -Work Method Statement 2. The project objectives are to detect any potential changes in water quality or water levels within groundwater wells which may be a result of the Blakebrook Quarry activities, to calibrate the level meters, and assess the functioning of water level meters at the site.

3.0 SAMPLING LOCATIONS

Water samples and level data were collected from all 9 groundwater bores. Sample codes and corresponding sampling locations are shown in **Table 1** and **Figure 1**.

Table 1. Quarterly groundwater sampling sites, sample codes and well information

Bore ID	RN (NOW)	Easting	Northing	Completion date	TD (mBGL)	Water strike (mBGL)	Casing Depth (mBGL)	Screened (mBGL)	SWL (mBGL)
Northern Two Clusters of Monitoring Bores (re. BQN1A, BQN1B, BQN2A, BQN2B, NOW & Cook p4 (2016))									
BQN1-B (BQN1-S)	GW307 323	524993.7	6818662.9	25/7/13	30	15 - 19	30	12 - 21	4.5
BQN1-A (BQN1-I)	GW307 322	524757.0	6818728.0	26/7/13	60	52 - 60	48	48 - 60	42.5
BQN1-D		524994	6818654.5	29/8/16	115	56 - 63; 99 - 109	115	97 - 109	?
BQN2-B (BQN2-S)	GW307 325	524437.7	6818619	28/7/13	42	28 - 38	42	30 - 42	28.5
BQN2-A (BQN2-S)	GW307 324	524436.7	6818615.5	27/7/13	60	52 - 60	60	51 - 60	31.3
BQN2-D		524447.5	6818616.5	29/8/16	133	19 - 24; 44 - 46.5; 112 - 117	133	109 - 121	
Southern Cluster of Monitoring Bores (re. Form A - particulars of completed work, 25/08/16 & GS letter 27/07/17)									
Bore ID	RN (NOW)	Easting	Northing	Completion date	TD (mBGL)	Water strike (mBGL)	Casing Depth (mBGL)	Screened (mBGL)	SWL (mBGL)
BQS1-S		524684.5	6817848.6	25/8/16	55	38 - 43	55	40 - 52	30
BQS1-I		524681.5	6817842.8	24/8/16	73	34 - 39; 64 - 70	73	58 - 70	30
BQS1-D		524678	6817837.2	23/8/16	102.7	34 - 39; 64 - 72; 95 - 99	102.7	87.7 - 99.7	30



Figure 1. Map of monthly groundwater sampling sites (Source: Lismore City Council).

4.0 SAMPLING METHODOLOGY

Sampling was undertaken by [REDACTED] and [REDACTED] on Thursday 2nd March 2023. In situ, physico-chemical measurements were collected using an Aquatroll Water Quality Meter and level information was downloaded using the Vu-Situ APP and Wireless TROLL Com instrument and cable connector. Samples collection methods and in-situ results are presented in **Appendix A (Table 2)**. A comparison of results to Trigger Values are presented in **Table 3**. The calibration certificate for the water quality meter is included as **Appendix B**.

Samples were stored on ice and dropped off at the Environmental Analysis Laboratory (EAL) in Lismore. Samples were not field filtered. A full list of analytes for the project are included in **Appendix C**.

5.0 RESULTS

5.1 Physico-chemical Results

In situ, physico-chemical sampling results are shown in **Appendix A (Table 2)**. A comparison of results to Trigger Values are presented in **Table 3**.

- pH was above the Trigger Values at BQN1A.

- Electrical Conductivity (EC) was outside of the 20% Trigger Value range at BQN2A and BQS1I.

5.2 Laboratory Results

The chain of custody form is included in **Appendix D**. A full copy of the laboratory results is included as **Appendix E**. A comparison of results to Trigger Values are presented in **Table 3**.

- Total oils and grease were below the Trigger Values at all sites.
- Total iron was above the Trigger Values at Sites BQS1S and BQN1A.
- Total lead was above the Trigger Values at BQS1S, BQN1B, BQN1A, BQN2B, BQN2A and BQN2D.
- TRH was detected at Sites BQS1S, BQS1I and BQS1D. A silica clean-up which removes natural sources of TRH was performed. 160 mg/L of Total TRH was detected in BQS1D following the silica gel clean up.
- BTEX was below the adopted Trigger Values at all sites.

5.3 Well Level Results

Well level results for the past three months and the last seven years are presented in **Appendix F**.

- Groundwater levels have risen in the North 2 shallow well, North 2 intermediate well and North 2 deep well (BQN2-B, BQN2-A, BQN2-D).
- Groundwater levels have fallen in the North 1 shallow well, South intermediate well and North 2 deep well (BQN1-B, BQS1-I, BQN2-D).
- Groundwater levels have remained consistent in the North 1 intermediate, North 1 deep well and South deep well (BQN1-A, BQN1-D, BQS1-D).
- Battery levels in all water level meters remain above 50%.
- All level meters appear to be functioning adequately.
- All level meters have been upgraded and calibrated.

6.0 COMMENTS AND RECOMMENDATIONS

EC was above the Trigger Values at BQN2A and BQS1I. Total lead was above the Trigger value at all sites. EC and lead can be variable due to climate conditions such as rainfall. It is unlikely that changes are a result of impacts from the quarry site. No further investigation is warranted. TRH has been identified as being present from natural sources at BQS1S and BQS1I and from natural and unknown sources at the BQS1D. The levels are very low and unlikely to cause environmental impacts. Further monitoring is recommended.

Kind regards,

[REDACTED]

Environmental Engineer & Director

[REDACTED]

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office: (02) 66-215-123

fax: (02) 66-218-123

ABN: 82 106 758 123

APPENDIX A- Physicochemical and sample Information

Table 2. Results of physico-chemical parameters collected in situ at quarterly sampling.

Sample Information	Blakebrook Quarry Groundwater Well Sampling Information								
	SOUTH			NORTH 1			NORTH 2		
Site Name	BQS1S	BQS1I	BQS1D	BQN1B	BQN1A	BQN1D	BQN2B	BQN2A	BQN2D
Well Type	Shallow	Intermediate	Deep	Shallow	Intermediate	Deep	Shallow	Intermediate	Deep
Date	02/03/23	02/03/23	02/03/23	02/03/23	02/03/23	02/03/23	02/03/23	02/03/23	02/03/23
Time	10:41 AM	10:05 AM	10:00 AM	12:05 PM	12:50 PM	12:00 PM	8:20 AM	8:30 AM	9:10 AM
Recorded Depth 1	28.97	45.14	80.20	4.56	46.30	100.06	29.07	29.94	87.35
Recorded Depth 2	29.33	45.92	80.20	5.10	46.00	100.10	29.40	30.85	87.42
Level Meter Calibrated	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Battery Level	56%	55%	56%	56%	55%	55%	56%	56%	56%
Memory Level	84%	84%	84%	84%	84%	84%	84%	84%	84%
Sample Method	Bottom filling Bailer from screen zone	Bottom filling Bailer from screen zone	Hydro sleeve Bailer from screen zone	12-volt submersible pump	Bottom filling Bailer from screen zone	Hydro sleeve Bailer from screen zone	Bottom filling Bailer from screen zone	Bottom filling Bailer from screen zone	Hydro sleeve Bailer from screen zone
Odour	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present
Site/Water Observations	Slightly turbid	Clear, some particles	Clear water	Clear water	Clear water	Clear, some particles	Milky colour	Clear water	Clear, some particles
Fresh Water WQOs	Water Quality Observations								
pH	6.85	8.00	7.74	7.06	8.70	8.05	10.30	7.13	8.72
EC dS/m	0.440	1.28	1.68	0.997	1.74	1.37	0.925	0.394	0.849
DO (%)	30.76	53.84	68.84	5.80	37.38	45.73	51.39	80.66	37.36
Temperature (°C)	26.72	26.24	26.68	25.26	27.28	27.99	26.54	25.62	26.46
ORP	45.1	35.9	161.4	-59.0	103.3	70.0	114.1	158.4	172.9

Table 3. Results quarterly sampling compared to Trigger Values.

Sample Information	Blakebrook Quarry Groundwater Well Sampling								
	SOUTH			NORTH 1			NORTH 2		
Site Name	BQS1S	BQS1I	BQS1D	BQN1B	BQN1A	BQN1D	BQN2B	BQN2A	BQN2D
Well Type	Shallow	Intermediate	Deep	Shallow	Intermediate	Deep	Shallow	Intermediate	Deep
Sample date	02/03/23	02/03/23	02/03/23	02/03/23	02/03/23	02/03/23	02/03/23	02/03/23	02/03/23
Trigger Value comparison	Trigger Value comparison								
pH Trigger Value	7.12	8.12	8.30	7.18	11.34	9.10	11.07	8.67	8.85
pH (Sample Date-2/03/2023)	6.84	7.98	7.42	7.53	10.95	8.02	10.21	8.18	8.81
Outside of 20% range	No	No	No	No	Yes	No	No	No	No
EC (dS/m) Trigger Value	0.512	1.624	1.829	1.171	2.082	1.44	1.138	1.2	1.014
EC (dS/m) (Sample Date-2/03/2023)	0.440	1.28	1.68	0.997	1.74	1.37	0.925	0.394	0.849
Outside of 20% range	No	Yes	No	No	No	No	No	Yes	No
Total oils and grease (mg/L) Trigger Value	10.8	21	14.2	4.1	9	4.4	3.6	6.9	4
TOG (mg/L) (Sample Date-2/03/2023)	<2	<2	2	3	2	<2	<2	<2	<2
Above Trigger Value	No	No	No	No	No	No	No	No	No
Iron- Total (mg/L) Trigger Value	1.829	4.977	6.58	2.162	1.972	97.645	0.579	0.301	3.904
Iron (mg/L) (Sample Date-2/03/2023)	4.72	0.128	0.237	2.136	21.5	2.18	0.330	0.171	0.104
Above Trigger Value	Yes	No	No	No	Yes	No	No	No	No
Lead- Total (mg/L) Trigger Value	0.001	0.005	0.009	0.001	0.018	0.008	0.004	0.002	0.005
Lead (Sample Date-2/03/2023)	0.004	0.002	0.005	0.001	0.018	0.003	0.007	0.005	0.007
Above Trigger Value	Yes	No	No	Yes	Yes	No	Yes	Yes	Yes
TRH -Total (mg/L) (Sample Date-2/03/2023)	160								
Present or absent	Present-natural origins	Present-natural origins	Present	Absent	Absent	Absent	Absent	Absent	Absent
BTEX (Sample Date-2/03/2023)									
Present or absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent

Notes: Results above/outside of Trigger Values have been highlighted

Appendix B - Calibration certificate for Water Quality Meter

Calibration Report

Instrument Aqua TROLL 500
Serial Number 757823
Created 21/11/2022

Sensor **Turbidity**
Serial Number 754060
Last Calibrated Factory Defaults

Sensor **RDO**
Serial Number 754373
Last Calibrated 10/07/2022

Calibration Details

Slope 1
Offset -0.10 mg/L

Pre Measurement

RDO Concentration 8.74 mg/L

Post Measurement

RDO Concentration 8.75 mg/L

Sensor **pH/ORP**
Serial Number 742301
Last Calibrated 21/11/2022

Calibration Details

Calibration Point 1

pH of Buffer 4.01 pH
pH mV 96.0 mV
Temperature 29.11 °C

Pre Measurement

pH 4.22 pH
pH mV 96.0 mV

Post Measurement

pH 4.01 pH
pH mV 97.4 mV

Calibration Point 2

pH of Buffer 6.99 pH
pH mV -71.3 mV
Temperature 30.21 °C

Pre Measurement

pH 7.11 pH
pH mV -71.6 mV

Post Measurement

pH 6.99 pH
pH mV -72.6 mV

Slope and Offset 1

Slope -56.17 mV/pH
Offset -71.9 mV

ORP

ORP Solution Zobell's
Offset 55.0 mV
Temperature 30.27 °C
Pre Measurement 167.7 mV
Post Measurement 222.2 mV

Sensor **Conductivity**
Serial Number 756927
Last Calibrated 10/07/2022

Calibration Details

TDS Conversion Factor (ppm) 0.65
Cell Constant 0.873
Reference Temperature 20.00 °C

Appendix C - Full List of Sampling Analytes

Field

- pH
- Electrical Conductivity (EC)
- Dissolved Oxygen (DO)
- Temperature
- Oxidation Reduction Potential

Laboratory

- Total Petroleum Hydrocarbons (TPH,) C10-C40
- Benzene, Toluene, Ethylbenzene Xylene (BTEX)
- Total iron
- Total lead
- Dissolved iron
- Dissolved lead
- Total oils and grease -Hexane Extractable
- Major ions (Sulfate, Chloride)
- Major cations (Calcium, Magnesium, sodium, potassium)

Appendix D - Chain of Custody Form

Environmental Analysis Laboratory Southern Cross University PO Box 157 (Military Road) LISMORE NSW 2480 P| 02 6620 3678 F| 02 6620 3957 eal@scu.edu.au, www.scu.edu.au/eal	CHAIN OF CUSTODY	
	Submitting Client Details Quote Id: EALQ5821 Job Ref: SMC010-Blakebrook WQ- Groundwater- SEPT20 Company Name: Ecoteam Contact Person: [REDACTED] Phone: 86215123 Mobile: 0428215124 Fax: Email: [REDACTED] Postal Address: 13 Ewing Street, Lismore	Billing Client Details ABN: Company Name: Ecoteam Contact Person: [REDACTED] Phone: 02 66215123 Mobile: 0428215124 Fax: Email: [REDACTED] Postal Address: 13 Ewing Street, Lismore

This section will be destroyed after being processed. Only Complete CVV number if you are supplying the original hardcopy to EAL.

Payment Method:

- ☐ Purchase Order
☐ Cheque
☐ Invoice (prior approval required)
☐ Credit Card Mastercard / Visa No: _____ / _____ / _____

Exp. Date: _____ Name on Card: _____ CVV: _____

Comments:

DO NOT TEST FOR Ph or EC

Perform a silica gel clean-up for sample which have TRH above the LOR

Marketing Survey - where did you find us?

- ☐ Word of mouth ☐ Magazine ☐ Google search ☐ Other

Relinquished By: [REDACTED]	Date: 2/3/23	Signed: [REDACTED]
Preservation: None / Ice / Ice bricks / Acidified / Filtered / Other: _____		
Received By: [REDACTED]	Date: 2/3/23	Signed: [REDACTED]
Condition on receipt: Ambient / <u>Cool</u> / Frozen / Other: _____		

Sample Analysis Request											
Price List Code (e.g. SW-PACK-06)											
Salt Suite- (no pH or EC) SW-PACK-014	TPH and BTEX SW-PACK-042	TOG SW-SING-001	Dissolved Iron SW-SING103	Dissolved Lead SW-SING103	Total Available Iron SW-SING-104	Total Available Lead SW-SING-104	Silica Gel Clean up for TRH	SW-PREP-003			
X	X	X	X	X	X	X	Hold				
X	X	X	X	X	X	X	Hold				
X	X	X	X	X	X	X	Hold				
X	X	X	X	X	X	X	Hold				
X	X	X	X	X	X	X	Hold				
X	X	X	X	X	X	X	Hold				

Lab Sample No.	Sample ID	Sample Depth	Sampling Date	Your Client	Crop ID	Sample Type (e.g. water, leaf, soil)	Salt Suite- (no pH or EC) SW-PACK-014	TPH and BTEX SW-PACK-042	TOG SW-SING-001	Dissolved Iron SW-SING103	Dissolved Lead SW-SING103	Total Available Iron SW-SING-104	Total Available Lead SW-SING-104	Silica Gel Clean up for TRH	SW-PREP-003
1	BQN1-B					Water	X	X	X	X	X	X	X	Hold	
2	BQN1-A					Water	X	X	X	X	X	X	X	Hold	
	BQN1-D					Water	X	X	X	X	X	X	X	Hold	
3	BQN2-B					Water	X	X	X	X	X	X	X	Hold	
4	BQN2-A					Water	X	X	X	X	X	X	X	Hold	
5	BQN2-D					Water	X	X	X	X	X	X	X	Hold	

EAL Chain of Custody
Issue: V1.1 27/09/2016

EAL Project Reference:

N817A

water x 8

QFORM 4.2
Page 1 of 2

5

CHAIN OF CUSTODY

Comments:

DO NOT TEST FOR Ph or EC

Perform a silica gel clean-up for sample which have TRH above the LOR

Marketing Survey – where did you find us?

☐ Word of mouth ☐ Magazine ☐ Google search ☐ Other

[illegible]

Tab through for extra lines

CHAIN OF CUSTODY

eal **Environmental Analysis Laboratory**
Southern Cross University

PO Box 157 (Military Road)
LISMORE NSW 2480
P| 02 6620 3678 F| 02 6620 3957
eal@scu.edu.au, www.scu.edu.au/eal

Submitting Client Details

Quote Id: EALQ5821
Job Ref: SMC010-Blakebrook WQ- Groundwater- SEPT20
Company Name: Ecoteam
Contact Person: [REDACTED]
Phone: 66215123
Mobile: 0428215124
Fax:
Email: [REDACTED]
Postal Address: 13 Ewing Street, Lismore

Billing Client Details

ABN:
Company Name: Ecoteam
Contact Person: [REDACTED]
Phone: 02 66215123
Mobile: 0428215124
Fax:
Email: [REDACTED]
Postal Address: 13 Ewing Street, Lismore

This section will be destroyed after being processed. Only Complete CVV number if you are supplying the original hardcopy to EAL.

Payment Method:

- ☐ Purchase Order
☐ Cheque
☐ Invoice (prior approval required)
☐ Credit Card Mastercard / Visa No: _____

Exp. Date: _____ Name on Card: _____ CVV: _____

Comments:

DO NOT TEST FOR Ph or EC

Perform a silica gel clean-up for sample [REDACTED] you have to have the LOR

Marketing Survey - where did you find us?

- ☐ Word of mouth ☐ Magazine ☐ Google search ☐ Other

Relinquished By: [REDACTED] 2/3/23 [REDACTED]
Preservation: None / Ice / Ice bricks / Acidified / Filtered / Other:
Received By: [REDACTED] 2/3/23 [REDACTED]
Condition on receipt: Ambient / Cool / Frozen / Other:

Sample Analysis Request

Price List Code (e.g. SW-PACK-06)

Salt Suite- (no pH or EC) SW-PACK-014	TPH and BTEX SW-PACK-042	TOC SW-SING-001	Dissolved Iron SW-SING-103	Dissolved Lead SW-SING-103	Total Available Iron SW-SING-104	Total Available Lead SW-SING-104	Silica Gel Clean up for TRH SW-PACK-003
X	X	X	X	X	X	X	Hold
X	X	X	X	X	X	X	Hold
X	X	X	X	X	X	X	Hold
X	X	X	X	X	X	X	Hold
X	X	X	X	X	X	X	Hold
X	X	X	X	X	X	X	Hold

Lab Sample No.	Sample ID	Sample Depth	Sampling Date	Your Client	Crop ID	Sample Type (e.g. water, leaf, soil)
1	BQN1-B					Water
2	BQN1-A					Water
3	BQN1-D					Water
4	BQN2-B					Water
5	BQN2-A					Water
6	BQN2-D					Water

Chain of Custody
27/09/2016

EAL Project Reference:

QFORM 4.2
Page 1 of 2

Appendix E - Full Laboratory Results

RESULTS OF WATER ANALYSIS

9 samples supplied by Ecoteam on 2/03/2023. Lab Job No. N8174 and N8596.
Samples submitted by [REDACTED]. Your Job: SMC010-Blakebrook WQ- Groundwater- Sept20
13 Elveng Street LISMORE NSW 2480

Parameter	Methods reference	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Sample 7	Sample 8	Sample 9
		BQN1-B	BQN1-A	BQN2-B	BQN2-A	BQN2-D	BQS1-S	BQS1-I	BQS1-D	BQN1-D
	Job No.	N8174/1	N8174/2	N8174/3	N8174/4	N8174/5	N8174/6	N8174/7	N8174/8	N8596/1
pH	APHA 4500-H ⁺ -B	7.06	8.70	10.30	7.13	8.72	6.85	8.00	7.74	8.05
Conductivity (EC) (dS/m)	APHA 2510-B	0.997	1.74	0.925	0.394	0.849	0.440	1.28	1.68	1.37
Total Dissolved Salts (mg/L)	** Calculation using EC x 680	678	1,184	629	268	577	299	867	1,145	928
Bicarbonate (Alkalinity) (mg/L CaCO ₃ equivalent)	** Total Alkalinity - APHA 2320	233	250	109	135	342	239	230	111	136
Water Hardness (mg/L CaCO ₃ equivalent)	** Using Ca and Mg calculation	143	556	119	75	10	142	88	40	33
Total Oils and Grease (mg/L)	APHA 5520-D (hexane extractable)	3	2	<2	<2	<2	<2	<2	2	<2
Sodium (mg/L)	APHA 3125 ICPMS ^{10m 182}	173.5	337	181	64.4	219	52.1	258	338	283.6
Potassium (mg/L)	APHA 3125 ICPMS ^{10m 182}	3.8	7.01	6.58	3.95	2.01	3.44	5.05	3.91	2.6
Calcium (mg/L)	APHA 3125 ICPMS ^{10m 182}	27.0	180	37.8	17.6	3.24	32.3	26.7	13.0	10.1
Magnesium (mg/L)	APHA 3125 ICPMS ^{10m 182}	18.4	26.2	5.96	7.52	0.49	14.8	5.18	1.87	1.8
Sodium Absorption Ratio (SAR)	** By calculation	6.3	6.2	7.2	3.2	30.0	1.9	11.9	23.2	21.5
Chloride (mg/L)	APHA 3125 ICPMS ^{10m 182}	217	531	227	49	103	26	289	480	317
Sulfate (mg/L SO ₄ ²⁻)	APHA 3125 ICPMS ^{10m 182}	12	24	25	12	21	<9	11	35	65
Chloride/Sulfate Ratio	** Calculation	18.5	22.1	9.0	4.0	4.9	..	25.3	13.7	4.9
Iron (mg/L)	Total Available - APHA 3125 ICPMS ^{10m 182}	2.136	21.5	0.330	0.171	0.104	4.72	0.128	0.237	2.18
Lead (mg/L)	Total Available - APHA 3125 ICPMS ^{10m 182}	0.001	0.018	0.007	0.005	0.007	0.004	0.002	0.005	0.003
Iron (mg/L)	Dissolved - APHA 3125 ICPMS ^{10m 182}	0.254	0.015	<0.005	<0.005	<0.005	0.041	0.011	0.026	<0.005
Lead (mg/L)	Dissolved - APHA 3125 ICPMS ^{10m 182}	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001
BTEX										
Benzene (µg/L)	Subcontracted: SGS report SE 244252	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene (µg/L)	Subcontracted: SGS report SE 244252	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene (µg/L)	Subcontracted: SGS report SE 244252	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
m,p-xylene (µg/L)	Subcontracted: SGS report SE 244252	<1	<1	<1	<1	<1	<1	<1	<1	<1
o-xylene (µg/L)	Subcontracted: SGS report SE 244252	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Xylenes (µg/L)	Subcontracted: SGS report SE 244252	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
Total BTEX (µg/L)	Subcontracted: SGS report SE 244252	<3	<3	<3	<3	<3	<3	<3	<3	<3
Naphthalene (VOC) (µg/L)	Subcontracted: SGS report SE 244252	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Recoverable Hydrocarbons (TRH)										
TRH C6-C9 (µg/L)	Subcontracted: SGS report SE 244252	<40	<40	<40	<40	<40	<40	<40	<40	<40
Benzene (F9) (µg/L)	Subcontracted: SGS report SE 244252	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TRH C6-C10 (µg/L)	Subcontracted: SGS report SE 244252	<50	<50	<50	<50	<50	<50	<50	<50	<50
TRH C6-C10 minus BTEX (F1) (µg/L)	Subcontracted: SGS report SE 244252	<50	<50	<50	<50	<50	<50	<50	<50	<50
LLTRH C10-C14 (µg/L)	Subcontracted: SGS report SE 244252	<50	<50	<50	<50	<50	<50	<50	160	<50
LLTRH C15-C28 (µg/L)	Subcontracted: SGS report SE 244252	<100	<100	<100	<100	<100	<100	<100	<100	<100
LLTRH C29-C36 (µg/L)	Subcontracted: SGS report SE 244252	<50	<50	<50	<50	<50	<50	<50	68	<50
LLTRH >C10-C16 (µg/L)	Subcontracted: SGS report SE 244252	<50	<50	<50	<50	<50	<50	<50	170	<50
LLTRH >C16-C34 (F3) (µg/L)	Subcontracted: SGS report SE 244252	<100	<100	<100	<100	<100	<100	<100	140	<100
LLTRH >C34-C40 (F4) (µg/L)	Subcontracted: SGS report SE 244252	<100	<100	<100	<100	<100	<100	<100	<100	<100
TRH Sum C10-C36 (µg/L)	Subcontracted: SGS report SE 244252	<100	<100	<100	<100	<100	110	100	320	<100
LLTRH C37-C40 (µg/L)	Subcontracted: SGS report SE 244252	<100	<100	<100	<100	<100	<100	<100	<100	<100
Total Recoverable Hydrocarbons In Silica Gel (TRH)										
TRH C10-C14-Silica (µg/L)	Subcontracted: SGS report SE 244252	..	..	..	..	..	<50	<50	<50	..
TRH C15-C28-Silica (µg/L)	Subcontracted: SGS report SE 244252	..	..	..	..	..	<100	<100	<100	..
TRH C29-C36-Silica (µg/L)	Subcontracted: SGS report SE 244252	..	..	..	..	..	<50	<50	92	..
TRH C37-C40-Silica (µg/L)	Subcontracted: SGS report SE 244252	..	..	..	..	..	<50	<50	<50	..
TRH >C10-C16-Silica (µg/L)	Subcontracted: SGS report SE 244252	..	..	..	..	..	<60	<60	<60	..
TRH >C16-C34-Silica (µg/L)	Subcontracted: SGS report SE 244252	..	..	..	..	..	<500	<500	<500	..
TRH >C34-C40-Silica (µg/L)	Subcontracted: SGS report SE 244252	..	..	..	..	..	<500	<500	<500	..
TRH Sum C10-C40-Silica (µg/L)	Subcontracted: SGS report SE 244252	..	..	..	..	..	<125	<125	160	..

Notes:

1. Total metals - samples digested with nitric acid. Total available (acid soluble/ extractable) metals - samples acidified with nitric acid to pH <2;
Dissolved metals - samples filtered through 0.45µm cellulose acetate and then acidified with nitric acid prior to analysis
2. Metals and salts analysed by Inductively Coupled Plasma - Mass Spectrometry (ICP-MS).
3. 1 mg/L (milligram per litre) = 1 ppm (part per million) = 1000 µg/L (micrograms per litre) = 1000 ppb (part per billion).
4. For conductivity 1 dS/m = 1 mS/cm = 1000 µS/cm.
5. Analysis performed according to APHA (2017) 'Standard Methods for the Examination of Water & Wastewater', 23rd Edition, except where stated otherwise.
6. Analysis conducted between sample arrival date and reporting date.
7. ** NATA accreditation does not cover the performance of this service.
8. ... Denotes not requested.
9. This report is not to be reproduced except in full.
10. All services undertaken by EAL are covered by the EAL Laboratory Services Terms and Conditions (refer scu.edu.au/eal or on request).
11. Results relate only to the samples tested.
12. This report was issued on 27/03/2023.



Appendix F - Hydrographs



Blakebrook Quarry- Groundwater Monitoring

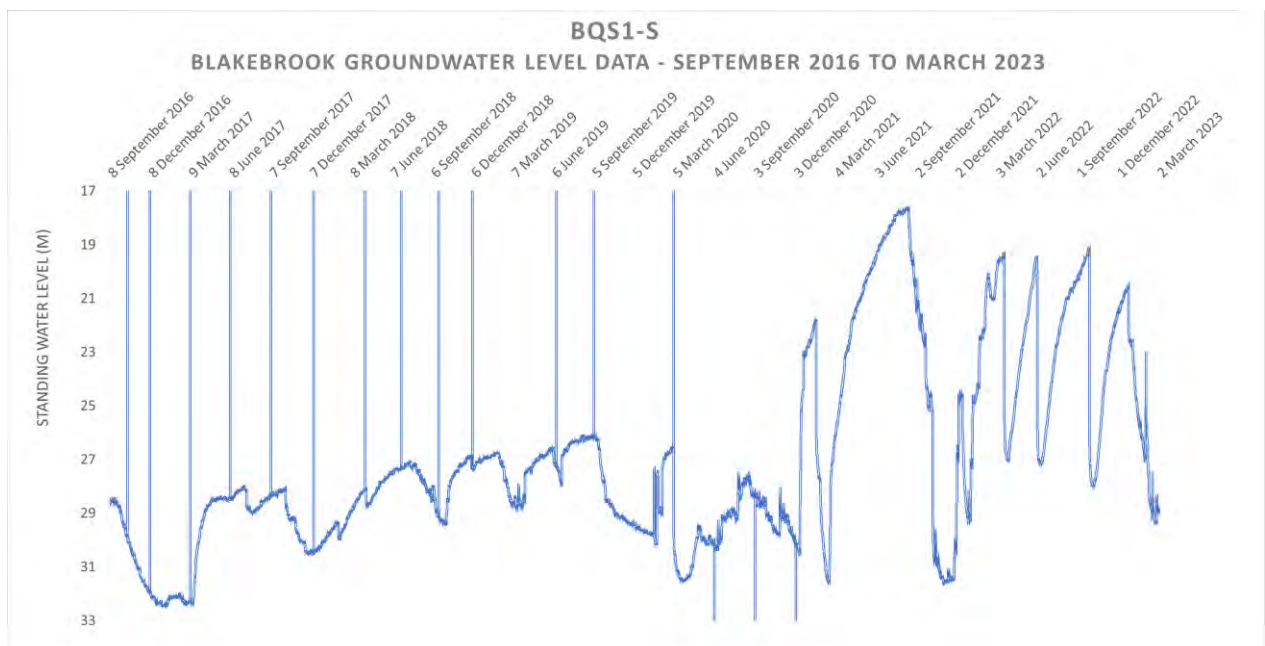
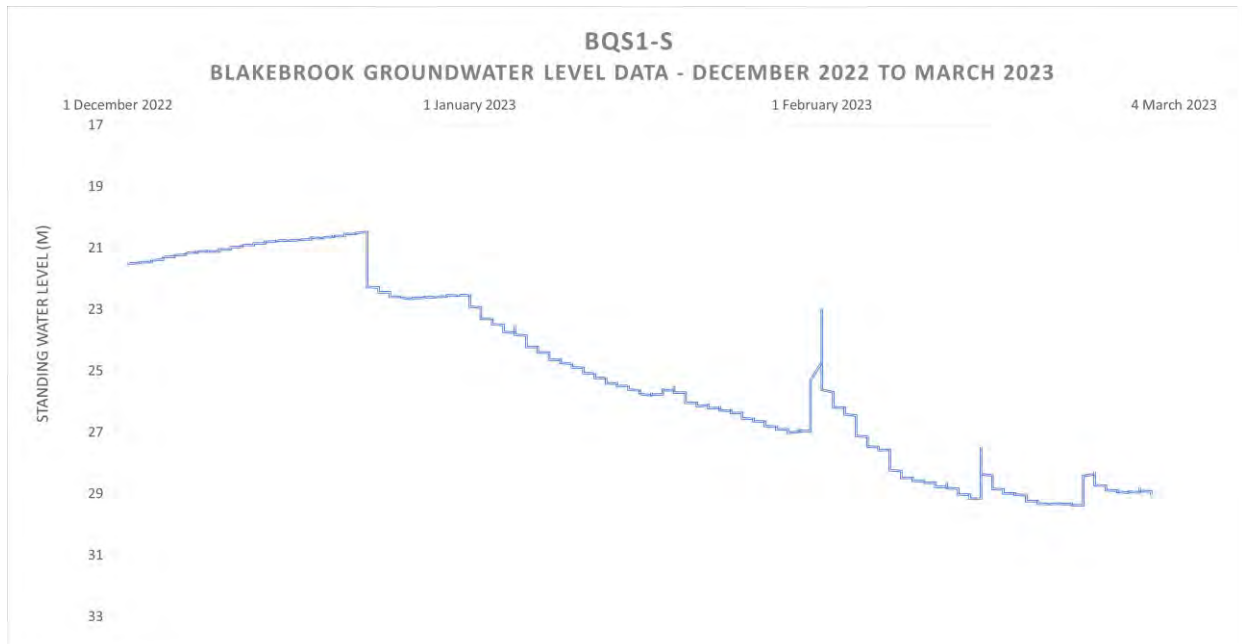
Groundwater Hydrographs

March 2023

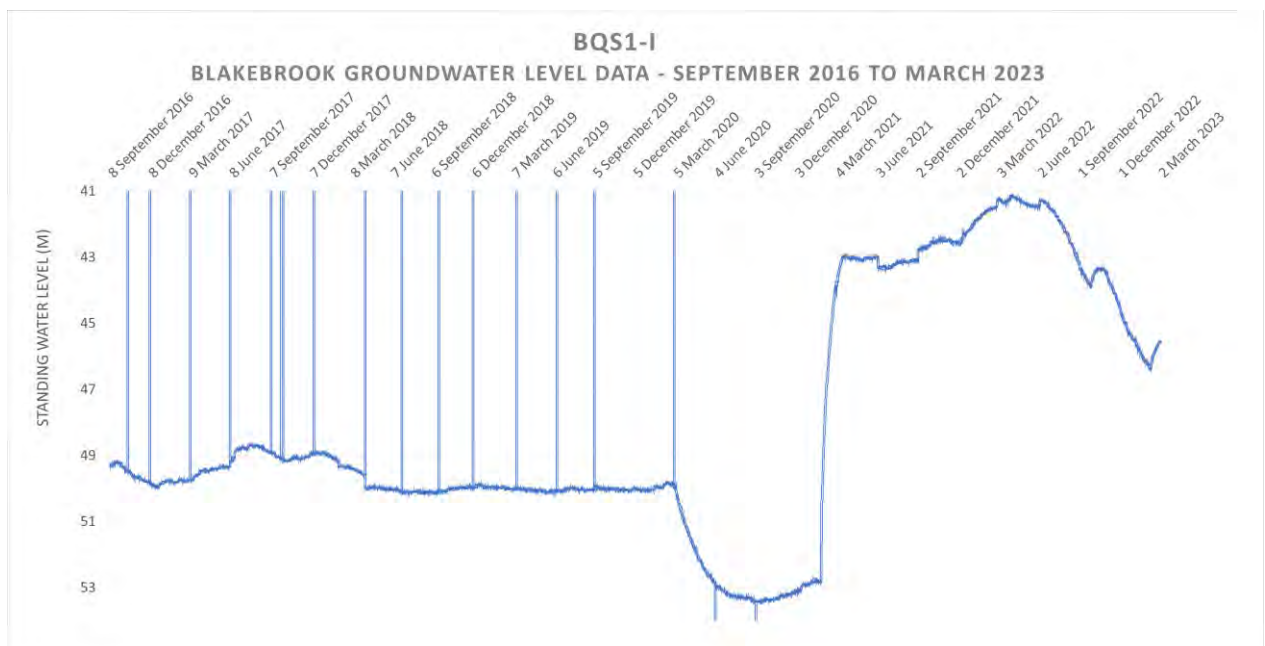
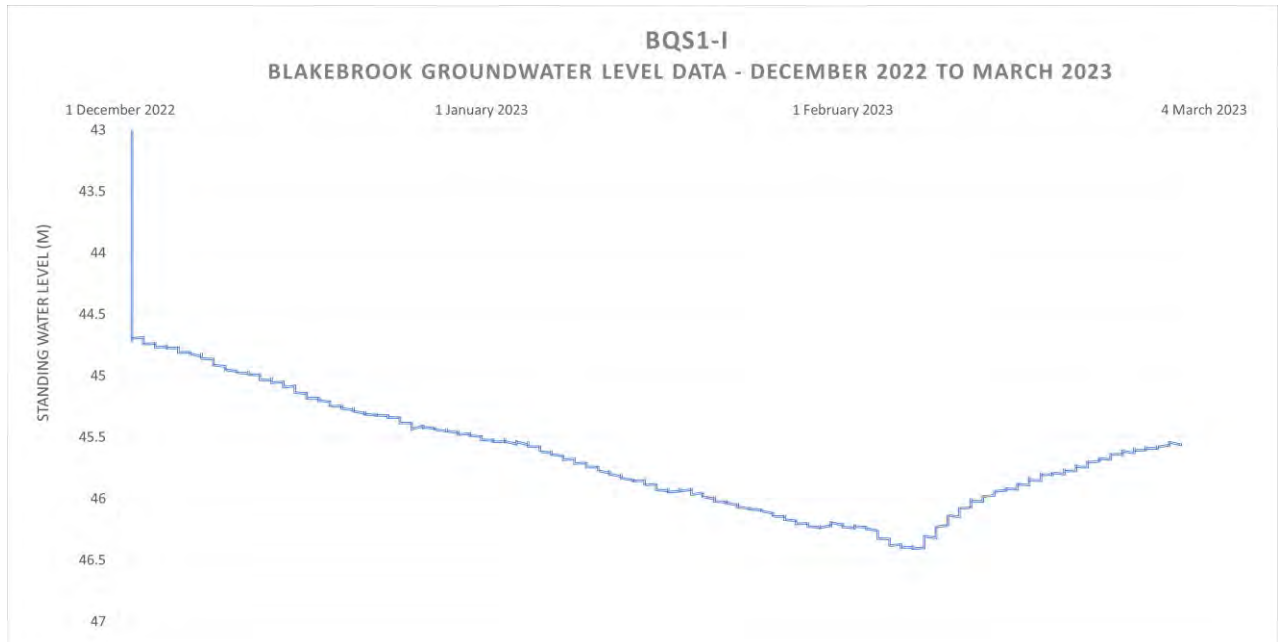


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Blakebrook Groundwater Wells – SOUTH 1 BQS1- S (Shallow)

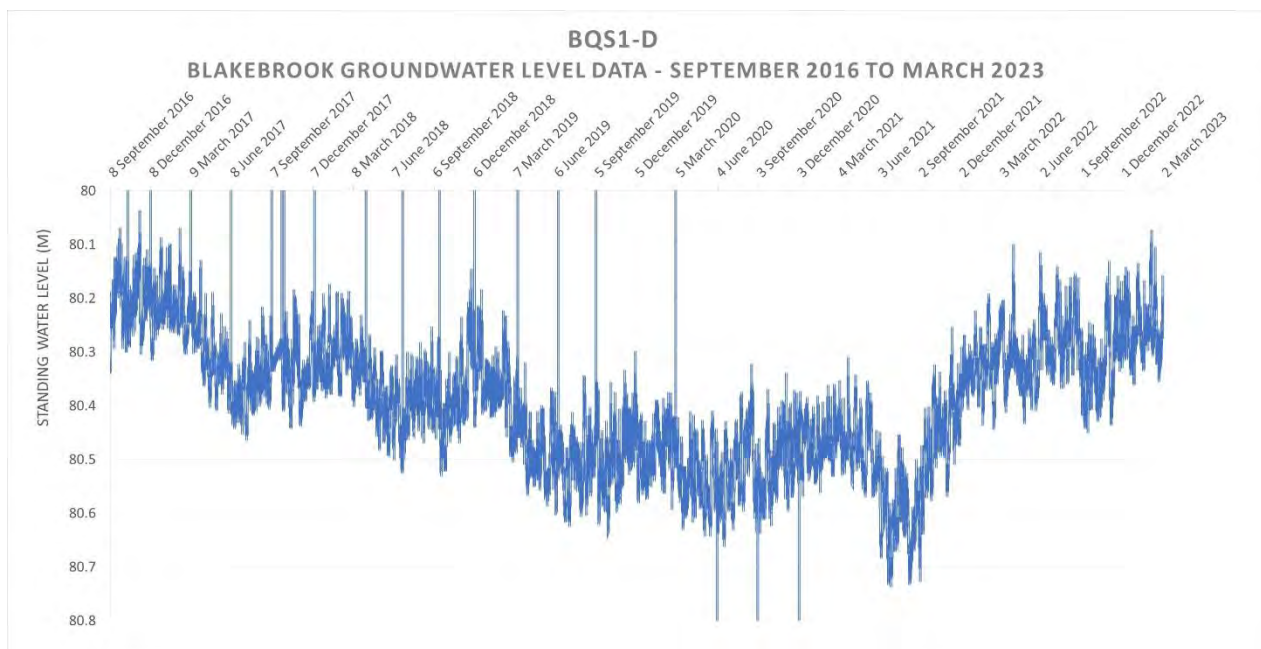
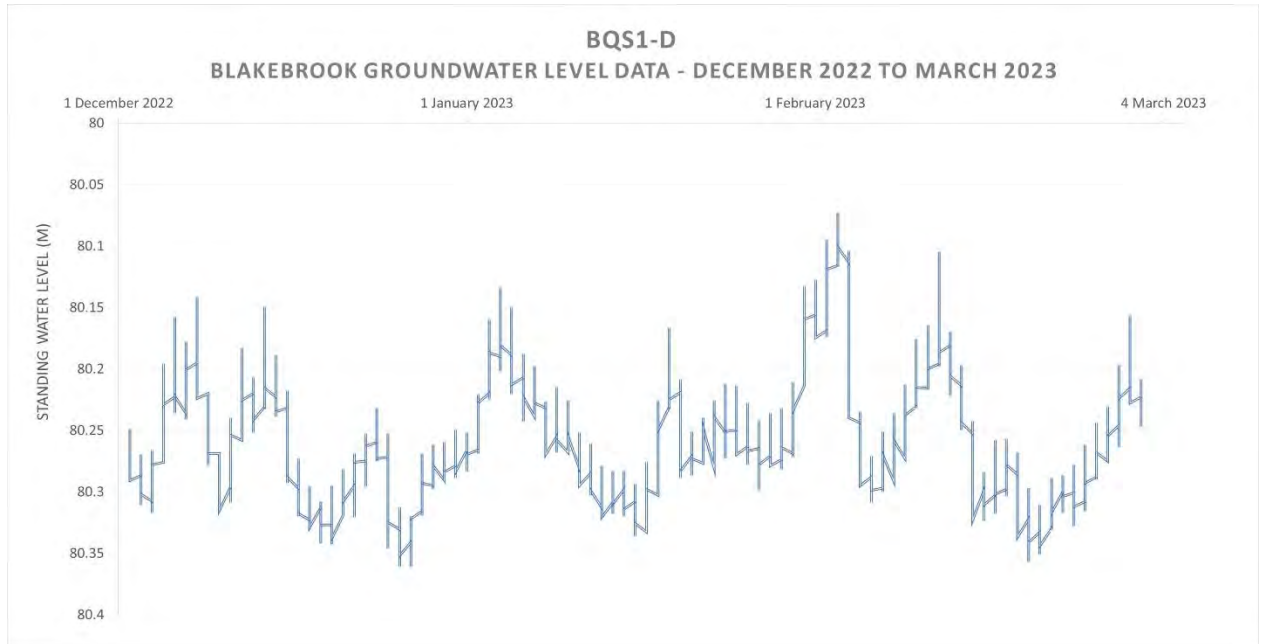


Blakebrook Groundwater Wells – SOUTH 1 BSQS1- I (Intermediate)



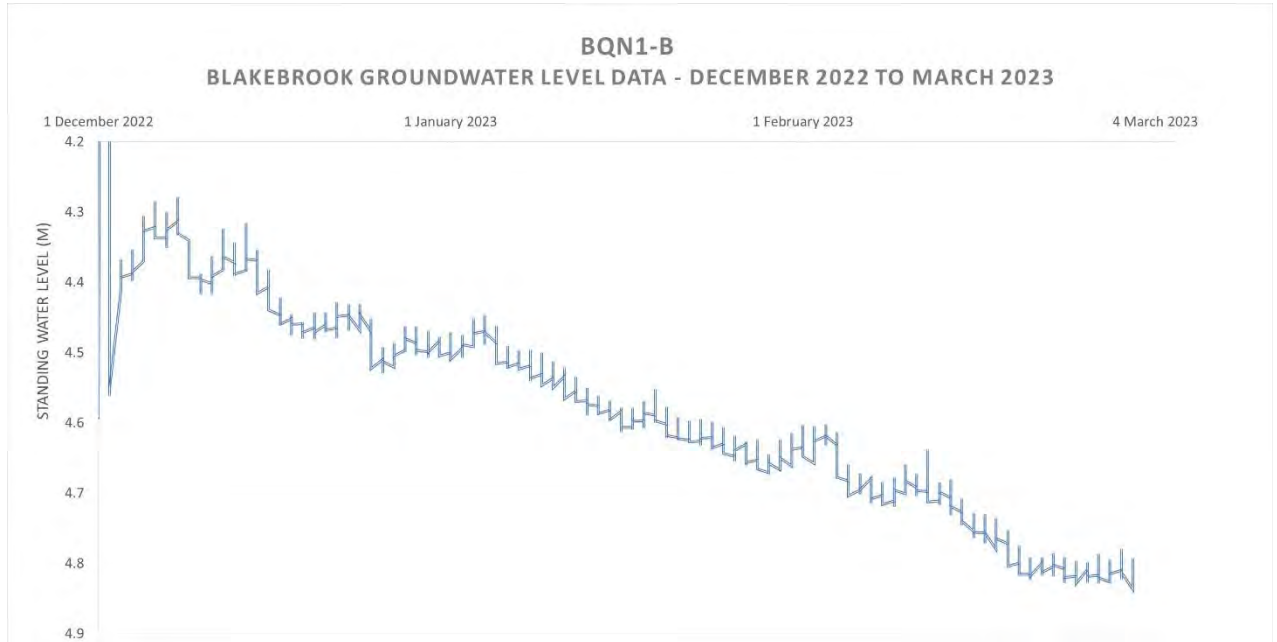
Blakebrook Groundwater Wells -SOUTH 1

BQS1- D (Deep)



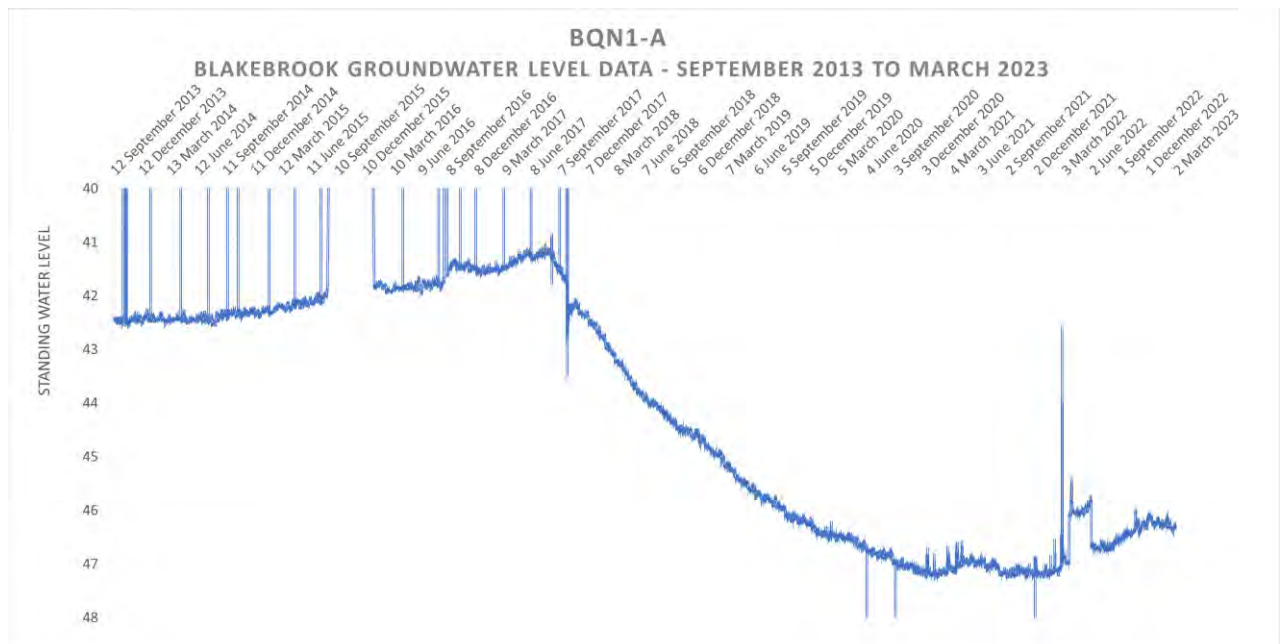
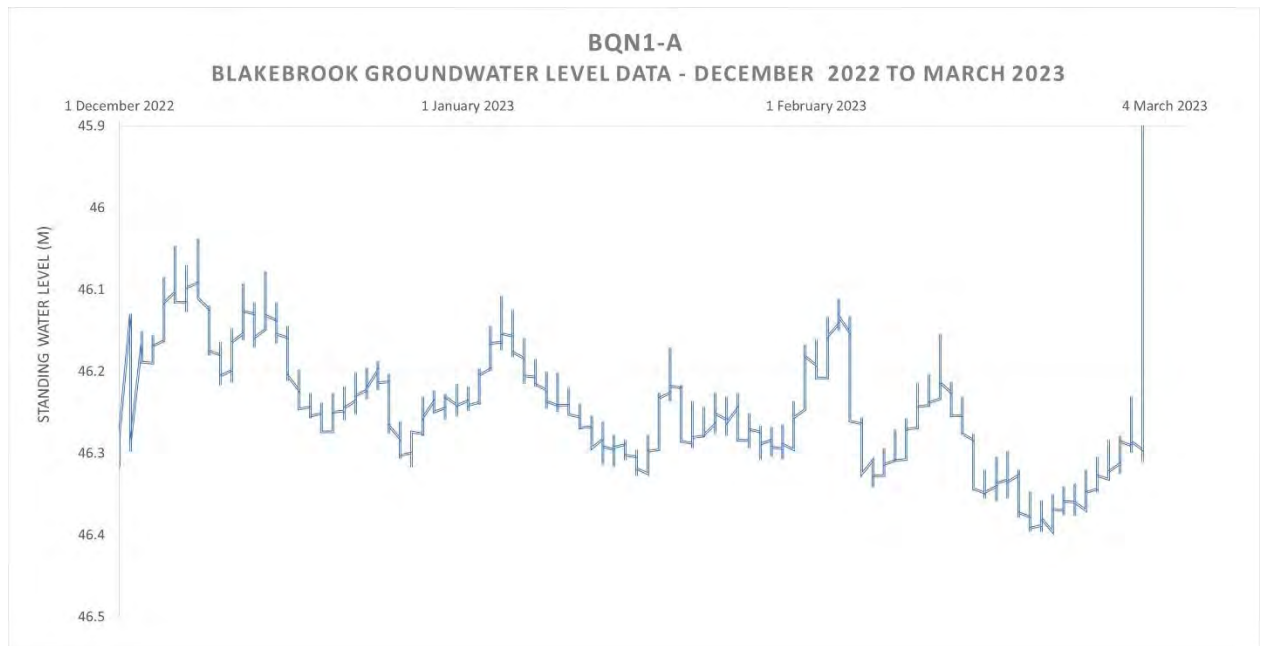
Blakebrook Groundwater Wells -NORTH 1

BQN1- B (Shallow)

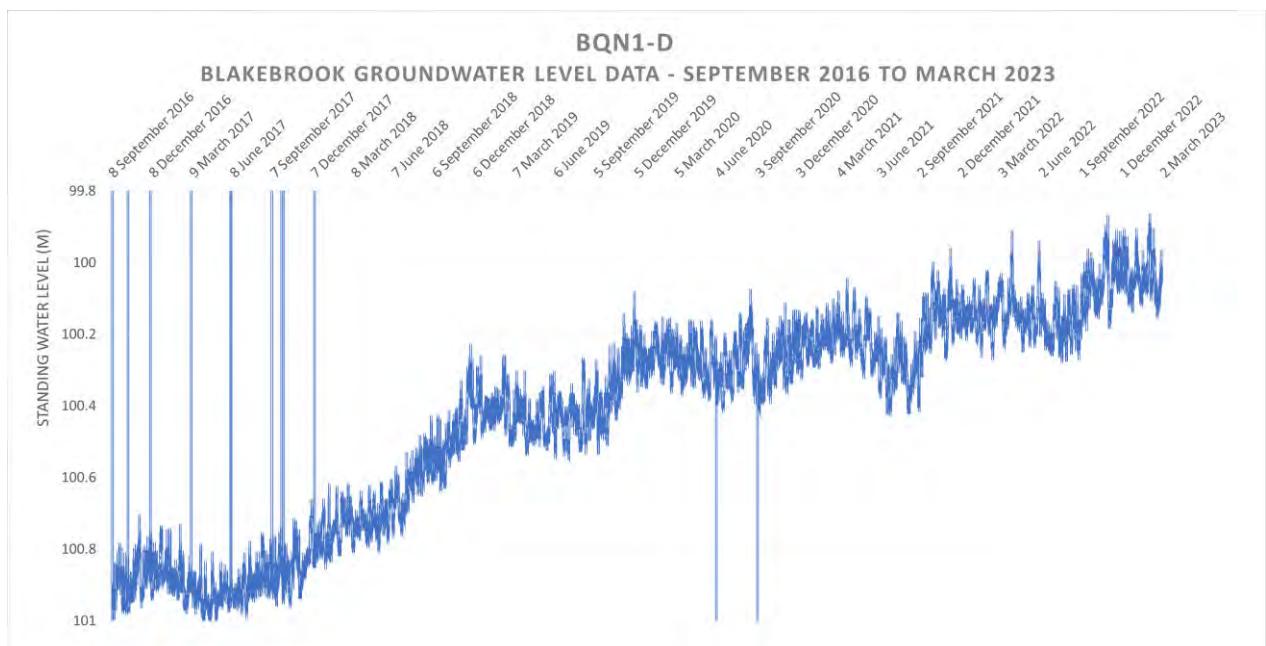
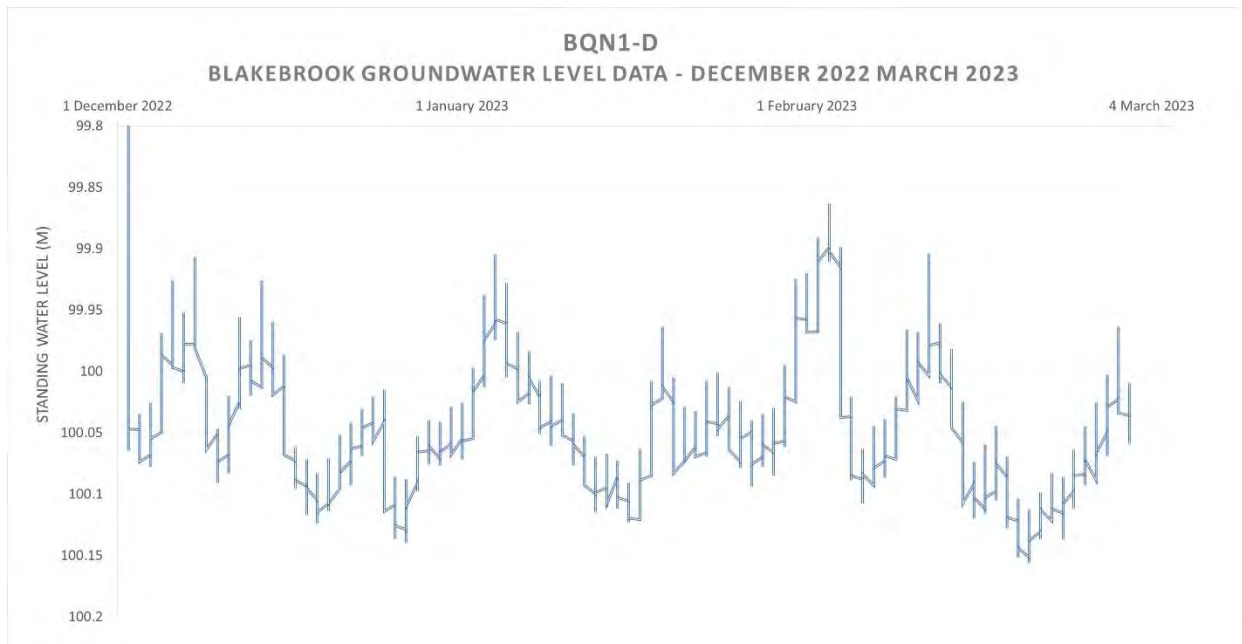


Blakebrook Groundwater Wells -NORTH 1

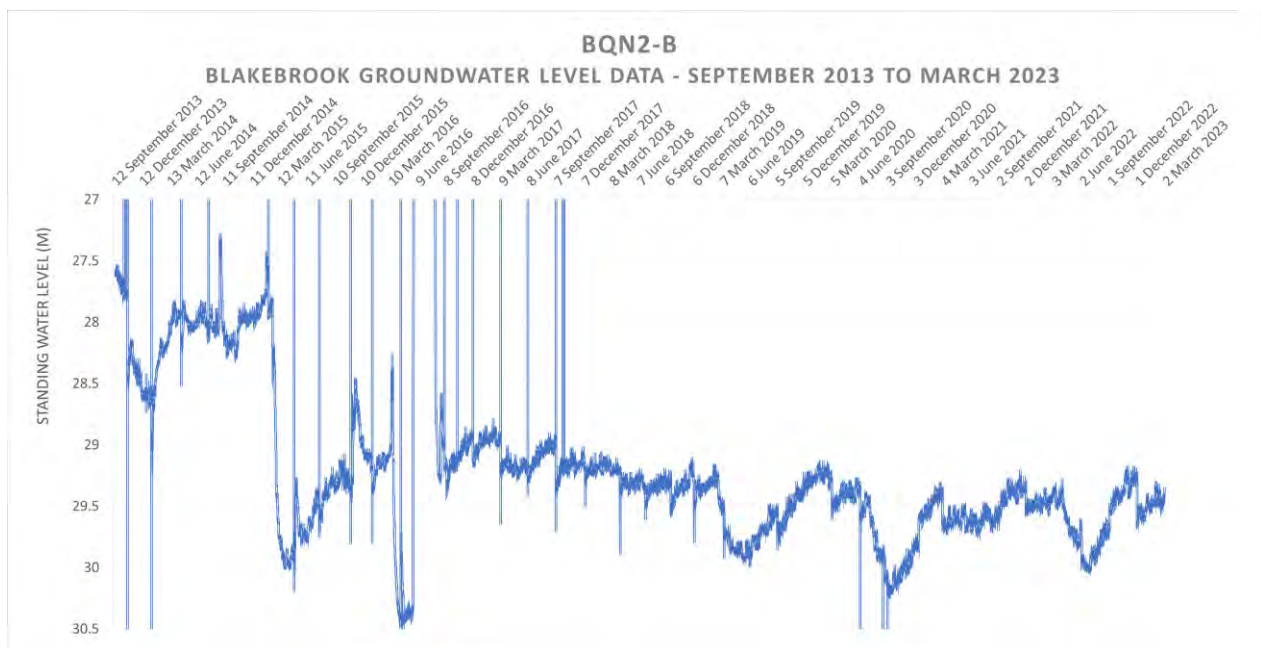
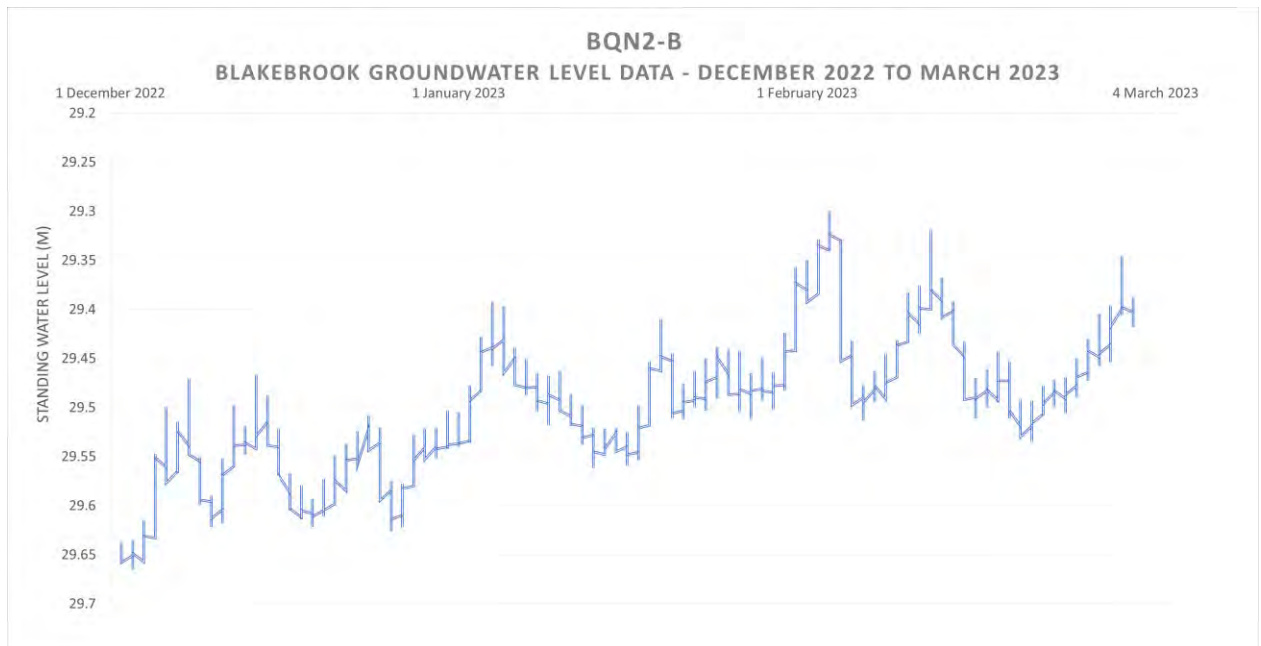
BQN1- A (Intermediate)



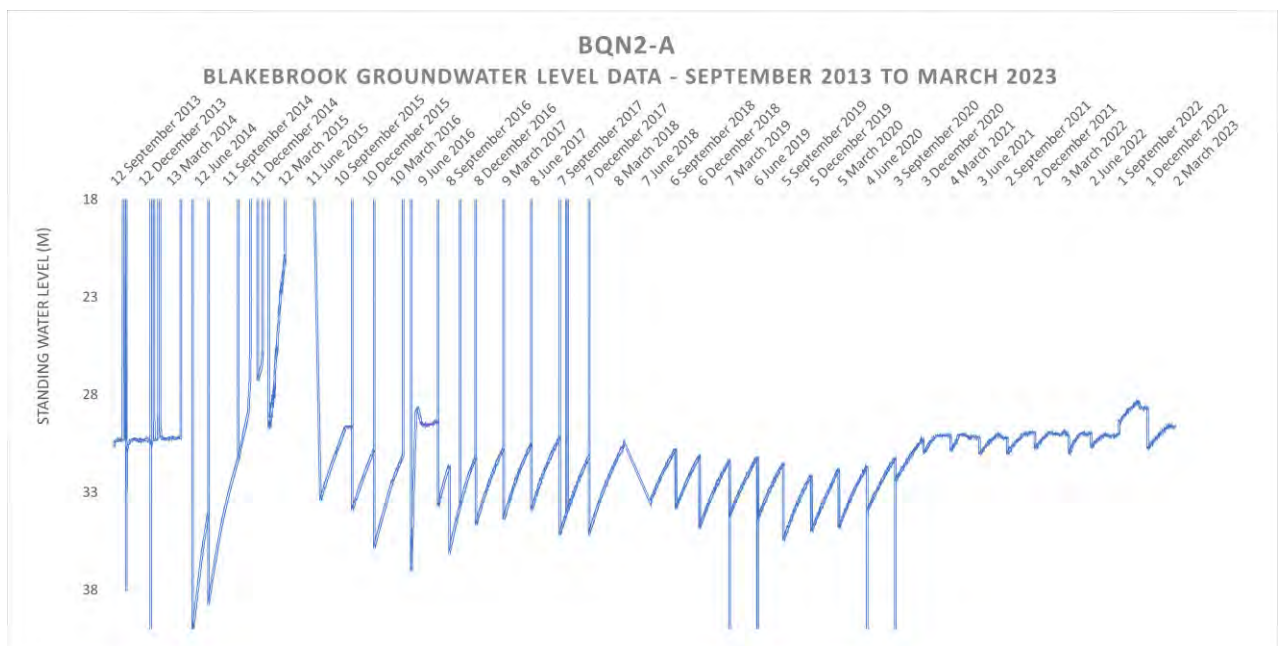
Blakebrook Groundwater Wells -NORTH 1 BQN1- D (Deep)



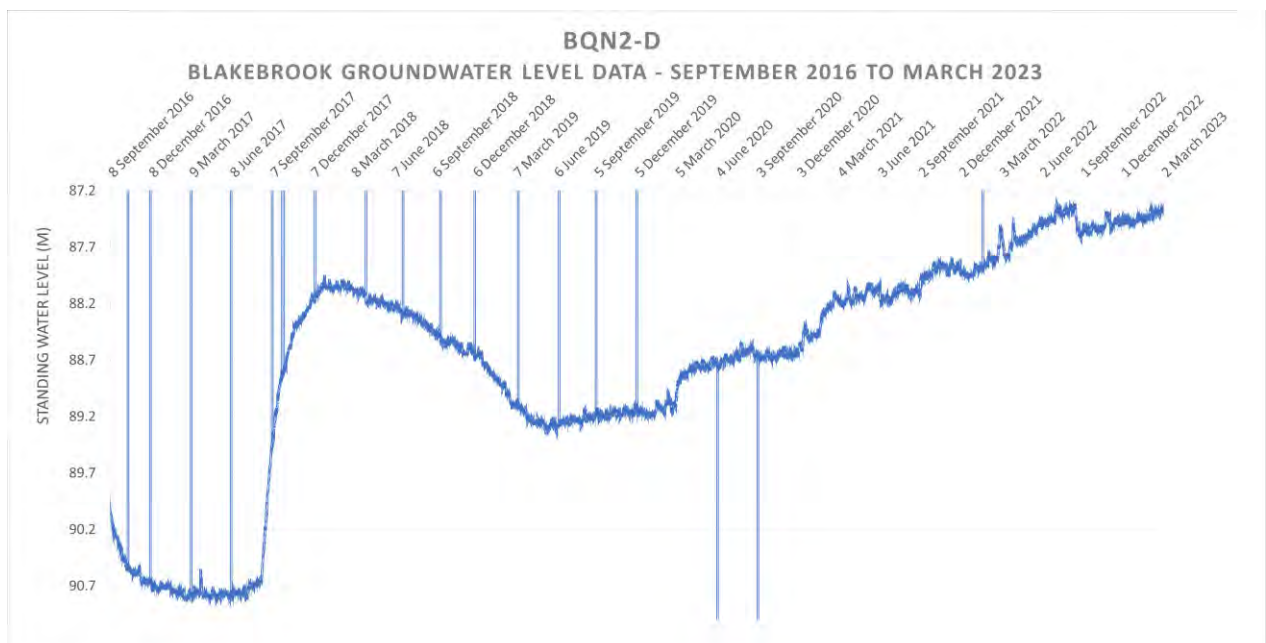
Blakebrook Groundwater Wells -NORTH 2 BQN2- B (Shallow)



Blakebrook Groundwater Wells -NORTH 2 BQN2- A (Intermediate)



Blakebrook Groundwater Wells -NORTH 2 BQN2- D (Deep)



Friday 22nd September 2023 -R2

Environmental Engineer &
Director

To: [REDACTED]
Compliance Officer, Lismore City Council
Blakebrook Quarry Water Quality Sampling

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Re: Groundwater Quality Monitoring Results & Report for Blakebrook Quarry

Reporting period: 1st March 2023 to 1st June 2023

1.0 INTRODUCTION

Ecoteam is engaged to undertake quarterly groundwater quality and water level monitoring on behalf of Lismore City Council for the Blakebrook Quarry, Blakebrook, NSW. This report presents results from the June 2023 sampling round.

2.0 PROJECT AIMS AND SAMPLING OBJECTIVES

The aim of the groundwater monitoring is to monitor groundwater quality and water levels at the Blakebrook Quarry site as per Northern Rivers Quarry - Blakebrook Quarry Monitoring Procedure (Groundwater) -Work Method Statement 2. The project objectives are to detect any potential changes in water quality or water levels within groundwater wells which may be a result of the Blakebrook Quarry activities, to calibrate the level meters, and assess the functioning of water level meters at the site.

3.0 SAMPLING LOCATIONS

Water samples and level data were collected from all 9 groundwater bores. Sample codes and corresponding sampling locations are shown in **Table 1** and **Figure 1**.

Table 1. Quarterly groundwater sampling sites, sample codes and well information

Bore ID	RN (NOW)	Easting	Northing	Completion date	TD (mBGL)	Water strike (mBGL)	Casing Depth (mBGL)	Screened (mBGL)	SWL (mBGL)
Northern Two Clusters of Monitoring Bores (re. BQN1A, BQN1B, BQN2A, BQN2B, NOW & Cook p4 (2016))									
BQN1-B (BQN1-S)	GW307 323	524993.7	6818662.9	25/7/13	30	15 - 19	30	12 - 21	4.5
BQN1-A (BQN1-I)	GW307 322	524757.0	6818728.0	26/7/13	60	52 - 60	48	48 - 60	42.5
BQN1-D		524994	6818654.5	29/8/16	115	56 - 63; 99 - 109	115	97 - 109	?
BQN2-B (BQN2-S)	GW307 325	524437.7	6818619	28/7/13	42	28 - 38	42	30 - 42	28.5
BQN2-A (BQN2-S)	GW307 324	524436.7	6818615.5	27/7/13	60	52 - 60	60	51 - 60	31.3
BQN2-D		524447.5	6818616.5	29/8/16	133	19 - 24; 44 - 46.5; 112 - 117	133	109 - 121	
Southern Cluster of Monitoring Bores (re. Form A - particulars of completed work, 25/08/16 & GS letter 27/07/17)									
Bore ID	RN (NOW)	Easting	Northing	Completion date	TD (mBGL)	Water strike (mBGL)	Casing Depth (mBGL)	Screened (mBGL)	SWL (mBGL)
BQS1-S		524684.5	6817848.6	25/8/16	55	38 - 43	55	40 - 52	30
BQS1-I		524681.5	6817842.8	24/8/16	73	34 - 39; 64 - 70	73	58 - 70	30
BQS1-D		524678	6817837.2	23/8/16	102.7	34 - 39; 64 - 72; 95 - 99	102.7	87.7 - 99.7	30



Figure 1. Map of monthly groundwater sampling sites (Source: Lismore City Council).

4.0 SAMPLING METHODOLOGY

Sampling was undertaken by [REDACTED] and [REDACTED] on Tuesday 6th June 2023. In situ, physico-chemical measurements were collected using an Aquatroll Water Quality Meter and level information was downloaded using the Vu-Situ APP and Wireless TROLL Com instrument and cable connector. Samples collection methods and in-situ results are presented in **Appendix A (Table 2)**. A comparison of results to Trigger Values are presented in **Table 3**. The calibration certificate for the water quality meter is included as **Appendix B**.

Samples were stored on ice and dropped off at the Environmental Analysis Laboratory (EAL) in Lismore. Samples were not field filtered. A full list of analytes for the project are included in **Appendix C**.

5.0 RESULTS

5.1 Physico-chemical Results

In situ, physico-chemical sampling results are shown in **Appendix A (Table 2)**. A comparison of results to Trigger Values are presented in **Table 3**.

- pH was inside the Trigger Values range at all sites.
- Electrical Conductivity (EC) was outside of the 20% Trigger Value range at all sites.

5.2 Laboratory Results

The chain of custody form is included in **Appendix D**. A full copy of the laboratory results is included as **Appendix E**. A comparison of results to Trigger Values are presented in **Table 3**.

- Total oils and grease were above the Trigger Values at BQN1D, BQN2B and BQN2D.
- Total iron was above the Trigger Values at BQN1B.
- Total lead was above the Trigger Values at BQS1S, BQS1I, BQS1D and BQN1B
- TRH was detected at Sites BQN1B and BQN1D. A silica clean-up which removes natural sources of TRH was performed. TRH was not detected follow Silica Gel clean up suggesting the source is natural origins.
- BTEX was below the adopted Trigger Values at all sites.

5.3 Well Level Results

Well level results for the past three months and the last seven years are presented in **Appendix F**.

- Groundwater levels have risen in the South shallow well, North 1 intermediate well and North 2 intermediate well (BQS1-I, BQN1-A, BQN2-A)
- Groundwater levels have fallen in the South intermediate well, South deep well, North 1 shallow well, North 1 deep well, North 2 shallow well, and North 2 deep well (BQS1-I, BQS1-D, BQN1-B, BQN1-D, BQN2-B, BQN2-D).
- Battery levels in all water level meters remain above 50%.
- All level meters appear to be functioning adequately.
- All level meters have been upgraded and calibrated.

6.0 COMMENTS AND RECOMMENDATIONS

EC was above the Trigger Values at all sites. Total lead and total iron were above the Trigger value at some sites. EC and metals can be variable due to climate conditions such as rainfall. It is unlikely that changes are a result of impacts from the quarry site. No further investigation is warranted. TRH has been identified as being present from natural sources at BQN1B and BQN1D. The levels are very low and unlikely to cause environmental impacts. Further monitoring is recommended.

Kind regards,

[REDACTED]

Environmental Engineer & Director

[REDACTED]

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APPENDIX A- Physicochemical and sample Information

Table 2. Results of physico-chemical parameters collected in situ at quarterly sampling.

Sample Information	Blakebrook Quarry Groundwater Well Sampling Information								
	SOUTH			NORTH 1			NORTH 2		
Site Name	BQS1S	BQS1I	BQS1D	BQN1B	BQN1A	BQN1D	BQN2B	BQN2A	BQN2D
Well Type	Shallow	Intermediate	Deep	Shallow	Intermediate	Deep	Shallow	Intermediate	Deep
Date	06/06/23	06/06/23	06/06/23	06/06/23	06/06/23	06/06/23	06/06/23	06/06/23	06/06/23
Time	1:00 PM	1:05 PM	1:25 PM	11:00 AM	11:05 AM	11:00 AM	9:30 AM	10:00 AM	9:30 AM
Recorded Depth 1	25.32	46.63	80.34	5.04	46.00	100.02	29.18	30.15	87.60
Recorded Depth 2	25.72	47.06	80.32	5.70	46.05	100.02	29.55	30.15	87.70
Level Meter Calibrated	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Battery Level	54%	54%	54%	54%	54%	54%	54%	54%	54%
Memory Level	84%	84%	84%	80%	84%	84%	84%	87%	81%
Sample Method	Bottom filling Bailer from screen zone	Bottom filling Bailer from screen zone	Hydro sleeve Bailer from screen zone	12-volt submersible pump	Bottom filling Bailer from screen zone	Hydro sleeve Bailer from screen zone	Bottom filling Bailer from screen zone	Bottom filling Bailer from screen zone	Hydro sleeve Bailer from screen zone
Odour	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present
Site/Water Observations	Clear	Clear, some particles	Clear, large particles	Milky colour	Milky colour	Clear	Clear	Clear	Clear, some particles
Fresh Water WQOs	Water Quality Observations								
pH	6.95	7.90	7.89	7.09	10.68	8.84	10.22	8.03	8.91
EC dS/m	0.23	1.05	1.40	0.88	1.47	1.00	0.89	0.44	0.75
DO (%)	97.48	60.82	51.44	8.91	75.49	74.01	62.18	60.12	53.66
Temperature (°C)	19.10	19.24	19.89	20.48	20.31	19.96	18.10	19.4	19.79
ORP	119.8	66.8	-84.4	-6.3	23.1	49.1	58.3	56.1	52.3

Table 3. Results quarterly sampling compared to Trigger Values.

Sample Information	Blakebrook Quarry Groundwater Well Sampling								
	SOUTH			NORTH 1			NORTH 2		
Site Name	BQS1S	BQS1I	BQS1D	BQN1B	BQN1A	BQN1D	BQN2B	BQN2A	BQN2D
Well Type	Shallow	Intermediate	Deep	Shallow	Intermediate	Deep	Shallow	Intermediate	Deep
Sample date	06/06/23	06/06/23	06/06/23	06/06/23	06/06/23	06/06/23	06/06/23	06/06/23	06/06/23
Trigger Value comparison	Trigger Value comparison								
pH Trigger Value	7.12	8.12	8.30	7.18	11.34	9.10	11.07	8.67	8.85
pH (Sample Date-06/06/23)	6.95	7.90	7.89	7.09	10.68	8.84	10.22	8.03	8.91
Outside of 20% range	No	No	No	No	No	No	No	No	No
EC (dS/m) Trigger Value	0.512	1.624	1.829	1.171	2.082	1.44	1.138	1.2	1.014
EC (dS/m) (Sample Date-06/06/23)	0.23	1.05	1.40	0.88	1.47	1.00	0.89	0.44	0.75
Outside of 20% range	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Total oils and grease (mg/L) Trigger Value	10.8	21	14.2	4.1	9	4.4	3.6	6.9	4
TOG (mg/L) (Sample Date-06/06/23)	<2	<2	5	4	5	7	4	<2	4
Above Trigger Value	No	No	No	No	No	Yes	Yes	No	Yes
Iron- Total (mg/L) Trigger Value	1.829	4.977	6.58	2.162	1.972	97.645	0.579	0.301	3.904
Iron (mg/L) (Sample Date-06/06/23)	0.154	0.055	0.060	2.46	1.13	1.47	0.277	0.039	0.132
Above Trigger Value	No	No	No	Yes	No	No	No	No	No
Lead- Total (mg/L) Trigger Value	0.001	0.005	0.009	0.001	0.018	0.008	0.004	0.002	0.005
Lead (Sample Date-06/06/23)	0.002	<0.001	<0.001	0.004	0.008	0.003	0.002	<0.001	0.004
Above Trigger Value	Yes	Yes	Yes	Yes	No	No	No	No	No
TRH -Total (mg/L) (Sample Date-06/06/23))	Absent	Absent	Absent	Present-natural origins	Absent	Present-natural origins	Absent	Absent	Absent
Present or absent									
BTEX (Sample Date-06/06/23)	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
Present or absent									

Notes: Results above/outside of Trigger Values have been highlighted

Appendix B - Calibration certificate for Water Quality Meter

Calibration Report

Instrument Aqua TROLL 500
Serial Number 757823
Created 21/11/2022

Sensor **Turbidity**
Serial Number 754060
Last Calibrated Factory Defaults

Sensor **RDO**
Serial Number 754373
Last Calibrated 10/07/2022

Calibration Details

Slope 1
Offset -0.10 mg/L

Pre Measurement

RDO Concentration 8.74 mg/L

Post Measurement

RDO Concentration 8.75 mg/L

Sensor **pH/ORP**
Serial Number 742301
Last Calibrated 21/11/2022

Calibration Details

Calibration Point 1

pH of Buffer 4.01 pH
pH mV 96.0 mV
Temperature 29.11 °C

Pre Measurement

pH 4.22 pH
pH mV 96.0 mV

Post Measurement

pH 4.01 pH
pH mV 97.4 mV

Calibration Point 2

pH of Buffer 6.99 pH
pH mV -71.3 mV
Temperature 30.21 °C

Pre Measurement

pH 7.11 pH
pH mV -71.6 mV

Post Measurement

pH 6.99 pH
pH mV -72.6 mV

Slope and Offset 1

Slope -56.17 mV/pH
Offset -71.9 mV

ORP

ORP Solution Zobell's
Offset 55.0 mV
Temperature 30.27 °C
Pre Measurement 167.7 mV
Post Measurement 222.2 mV

Sensor **Conductivity**
Serial Number 756927
Last Calibrated 10/07/2022

Calibration Details

TDS Conversion Factor (ppm) 0.65
Cell Constant 0.873
Reference Temperature 20.00 °C

Appendix C - Full List of Sampling Analytes

Field

- pH
- Electrical Conductivity (EC)
- Dissolved Oxygen (DO)
- Temperature
- Oxidation Reduction Potential

Laboratory

- Total Petroleum Hydrocarbons (TPH,) C10-C40
- Benzene, Toluene, Ethylbenzene Xylene (BTEX)
- Total iron
- Total lead
- Dissolved iron
- Dissolved lead
- Total oils and grease -Hexane Extractable
- Major ions (Sulfate, Chloride)
- Major cations (Calcium, Magnesium, sodium, potassium)

Appendix D - Chain of Custody Form

CHAIN OF CUSTODY

Environmental Analysis Laboratory Southern Cross University PO Box 157 (Military Road) LISMORE NSW 2480 P| 02 6620 3678 F| 02 6620 3957 eal@scu.edu.au, www.scu.edu.au/eal	Submitting Client Details Quote Id: EALQ5821 Job Ref: SMC010-Blakebrook WQ- Groundwater- JUNE23 Company Name: Ecoteam Contact Person: [REDACTED] Phone: 66215123 Mobile: 0428215124 Fax: [REDACTED] Email: [REDACTED] Postal Address: 13 Ewing Street, Lismore	Billing Client Details AEN: [REDACTED] Company Name: Ecoteam Contact Person: [REDACTED] Phone: 02 66215123 Mobile: 0428215124 Fax: [REDACTED] Email: [REDACTED] Postal Address: 13 Ewing Street, Lismore
---	--	---

This section will be destroyed after being processed. Only Complete CVV number if you are supplying the original hardcopy to EAL.

Payment Method:

- ☐ Purchase Order
☐ Cheque
☐ Invoice (prior approval required)
☐ Credit Card Mastercard / Visa No: _____

Exp. Date: _____ Name on Card: _____ CVV: _____

Comments:

DO NOT TEST FOR Ph or EC

Perform a silica gel clean-up for sample which have TRH above the LOR

Marketing Survey – where did you find us?

- ☐ Word of mouth ☐ Magazine ☐ Google search ☐ Other

Relinquished [REDACTED]	Date: 6/6/23	Signed: [REDACTED]
Preservation: None / Ice / Ice bricks / Acidified / Filtered / Other: _____		
Received By: [REDACTED]	Date: 6.6.23	Signature: [REDACTED]
Condition on receipt: Ambient / <u>Cool</u> / Frozen / Other: _____		

Sample Analysis Request

Price List Code (e.g. SW-PACK-05)

Salt Suite- (no pH or EC) SW-PACK-014	TPH and BTEX SW-PACK-042	TOG On SW-SING-80+	Dissolved Iron SW-SING103	Dissolved Lead SW-SING103	Total Available Iron SW-SING-104	Total Available Lead SW-SING-104	Silica Gel Clean up for TRH
X	X	X	X	X	X	X	Hold
X	X	X	X	X	X	X	Hold
X	X	X	X	X	X	X	Hold
X	X	X	X	X	X	X	Hold
X	X	X	X	X	X	X	Hold
X	X	X	X	X	X	X	Hold

Lab Sample No.	Sample ID	Sample Depth	Sampling Date	Your Client	Crop ID	Sample Type (e.g. water, leaf, soil)
1	BQN1-B		6/6/23			Water
2	BQN1-A		6/6/23			Water
3	BQN1-D		6/6/23			Water
4	BQN2-B		6/6/23			Water
5	BQN2-A		6/6/23			Water
6	BQN2-D		6/6/23			Water

EAL Chain of Custody
Issue: V1.1 27/09/2016

EAL Project Reference: P1618 x9 WATER.

QFOF
Page

CHAIN OF CUSTODY

Comments:

DO NOT TEST FOR Ph or EC

Perform a silica gel clean-up for sample which have TRH above the LOR

Marketing Survey – where did you find us?

☐ Word of mouth ☐ Magazine ☐ Google search ☐ Other

Sample Analysis Request

Price List Code (e.g. SW-PACK-06)

[illegible]

Tab through for extra lines

Appendix E - Full Laboratory Results

RESULTS OF WATER ANALYSIS

9 samples supplied by Eos team on 7/09/2023. Lab Job No. P1818.

Samples submitted by [REDACTED] Your Job: SMC010-Balebrook WQ - Groundwater June 23

13 Data Sheet (SMD001) Job 438

Parameter	Methods reference	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Sample 7	Sample 8	Sample 9
		BQW1-B	BQW1-A	BQW1-D	BQW2-B	BQW2-A	BQW2-D	BQS1-S	BQS1-I	BQS1-D
	Job No.	P18181	P18182	P18183	P18184	P18185	P18186	P18187	P18188	P18189
Bicarbonate (Alkalinity) (mg/L CaCO ₃ equivalent)	** Total Alkalinity - APHA 2005	237	139	127	100	168	328	124	199	122
Water Hardness (mg/L CaCO ₃ equivalent)	** Using Ca and Mg calculation	158	225	37	83	111	11	72	94	43
Total Oil and Grease (mg/L)	APHA 3520-D (hexane extractable)	4	5	7	4	<2	4	<2	<2	5
Sodium (mg/L)	APHA 3125 ICPMS TM 182	187	341	276	189	86.0	234	42.4	269	375
Potassium (mg/L)	APHA 3125 ICPMS TM 182	4.40	8.49	2.99	6.88	5.52	2.91	3.59	5.42	4.01
Calcium (mg/L)	APHA 3125 ICPMS TM 182	31.2	75.8	11.4	26.7	30.1	3.63	18.4	28.6	14.2
Magnesium (mg/L)	APHA 3125 ICPMS TM 182	19.6	8.60	1.97	3.92	8.79	0.54	6.36	5.36	1.86
Sodium Absorption Ratio (SAR)	** By calculation	6.5	9.9	19.9	9.0	3.5	30.2	2.2	12.1	24.8
Chloride (mg/L)	APHA 3125 ICPMS TM 182	237	549	318	259	71	107	24	308	493
Sulfate (mg/L SO ₄ ²⁻)	APHA 3125 ICPMS TM 182	<9	23	52	13	13	19	<9	11	31
Chloride/Sulfate Ratio	** Calculation	...	24.3	6.1	11.4	5.4	5.6	...	29.4	15.7
Iron (mg/L)	Total Available - APHA 3125 ICPMS TM 182	2.46	1.13	1.47	0.277	0.039	0.132	0.154	0.055	0.060
Lead (mg/L)	Total Available - APHA 3125 ICPMS TM 182	0.004	0.008	0.003	0.002	<0.001	0.004	0.002	<0.001	<0.001
Iron (mg/L)	Dissolved - APHA 3125 ICPMS TM 182	0.065	<0.005	<0.005	<0.005	<0.005	0.008	0.009	0.015	0.005
Lead (mg/L)	Dissolved - APHA 3125 ICPMS TM 182	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
BTEX										
Benzene (µg/L)	Subcontracted: SGS report SE 249128	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene (µg/L)	Subcontracted: SGS report SE 249128	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene (µg/L)	Subcontracted: SGS report SE 249128	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
m,p-xylene (µg/L)	Subcontracted: SGS report SE 249128	<1	<1	<1	<1	<1	<1	<1	<1	<1
o-xylene (µg/L)	Subcontracted: SGS report SE 249128	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Xylenes (µg/L)	Subcontracted: SGS report SE 249128	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
Total BTEX (µg/L)	Subcontracted: SGS report SE 249128	<3	<3	<3	<3	<3	<3	<3	<3	<3
Naphthalene (VOC) (µg/L)	Subcontracted: SGS report SE 249128	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Recoverable Hydrocarbons (TRH)										
TRH C4-C9 (µg/L)	Subcontracted: SGS report SE 249128	<40	<40	<40	<40	<40	<40	<40	<40	<40
Benzene (F) (µg/L)	Subcontracted: SGS report SE 249128	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TRH C8-C10 (µg/L)	Subcontracted: SGS report SE 249128	<50	<50	<50	<50	<50	<50	<50	<50	<50
TRH C8-C10 minus BTEX (F) (µg/L)	Subcontracted: SGS report SE 249128	<50	<50	<50	<50	<50	<50	<50	<50	<50
LLTRH C16-C14 (µg/L)	Subcontracted: SGS report SE 249128 and SE 250148	<50	<50	<50	<50	<50	<50	<50	<50	<50
LLTRH C18-C16 (µg/L)	Subcontracted: SGS report SE 249128 and SE 250148	<100	<100	<100	<100	<100	<100	<100	<100	<100
LLTRH C20-C18 (µg/L)	Subcontracted: SGS report SE 249128 and SE 250148	<50	<50	<50	<50	<50	<50	<50	<50	<50
LLTRH C16-C14 (µg/L)	Subcontracted: SGS report SE 249128 and SE 250148	<50	<50	<50	<50	<50	<50	<50	<50	<50
LLTRH C18-C16 (F) (µg/L)	Subcontracted: SGS report SE 249128 and SE 250148	<100	<100	<100	<100	<100	<100	<100	<100	<100
LLTRH C20-C18 (F) (µg/L)	Subcontracted: SGS report SE 249128 and SE 250148	<100	<100	<100	<100	<100	<100	<100	<100	<100
TRH Sum C16-C14 (µg/L)	Subcontracted: SGS report SE 249128 and SE 250148	<100	<100	<100	<100	<100	<100	<100	<100	<100
LLTRH C20-C18 (µg/L)	Subcontracted: SGS report SE 249128 and SE 250148	<100	<100	<100	<100	<100	<100	<100	<100	<100
Total Recoverable Hydrocarbons (TRH) in Silica Gel										
TRH C16-C14-Silica (µg/L)	Subcontracted: SGS report SE 249128	...	...	...	<50	...	<50	...	...	...
TRH C16-C18-Silica (µg/L)	Subcontracted: SGS report SE 249128	...	...	...	<200	...	<200	...	...	...
TRH C18-C20-Silica (µg/L)	Subcontracted: SGS report SE 249128	...	...	...	<200	...	<200	...	...	...
TRH C20-C24-Silica (µg/L)	Subcontracted: SGS report SE 249128	...	...	...	<200	...	<200	...	...	...
TRH C24-C28-Silica (µg/L)	Subcontracted: SGS report SE 249128	...	...	...	<60	...	<60	...	...	...
TRH C16-C14-Silica (µg/L)	Subcontracted: SGS report SE 249128	...	...	...	<500	...	<500	...	...	...
TRH C16-C18-Silica (µg/L)	Subcontracted: SGS report SE 249128	...	...	...	<500	...	<500	...	...	...
TRH Sum C16-C14-Silica (µg/L)	Subcontracted: SGS report SE 249128	...	...	...	<450	...	<450	...	...	...
TRH Sum C16-C18-Silica (µg/L)	Subcontracted: SGS report SE 249128	...	...	...	<650	...	<650	...	...	...

Notes

1. Total metals - samples digested with nitric acid, Total available (acid soluble/ extractable) metals - samples acidified with nitric acid to pH <2.
Dissolved metals - samples filtered through 0.45µm cellulose acetate and then acidified with nitric acid prior to analysis.
2. Metals and salts analyzed by Inductively Coupled Plasma - Mass Spectrometry (ICP-MS).
3. 1 mg/L (milligram per litre) = 1 ppm (part per million) = 1000 µg/L (micrograms per litre) = 1000 ppb (part per billion).
4. For conductivity 1 dS/m = 1 ms/cm = 1000 µS/cm.
5. Analysis performed according to APHA (2017) 'Standard Methods for the Examination of Water & Wastewater', 23rd Edition, except where stated otherwise.
6. Analysis conducted between sample arrival date and reporting date.
7. ** NATA accreditation does not cover the performance of this service.
8. ... Denotes not requested.
9. This report is not to be reproduced except in full.
10. All services undertaken by EAL are covered by the EAL Laboratory Services Terms and Conditions (refer scu.edu.au/eal or on request).
11. Results relate only to the samples tested.
12. This report was updated on 07/07/2023 and replaces the draft report issued on 04/07/2023. TRH results for sample number 5 are now included.



Appendix F - Hydrographs



Blakebrook Quarry- Groundwater Monitoring

Groundwater Hydrographs

June 2023



13 Ewing Street, LISMORE NSW
2480 Australia

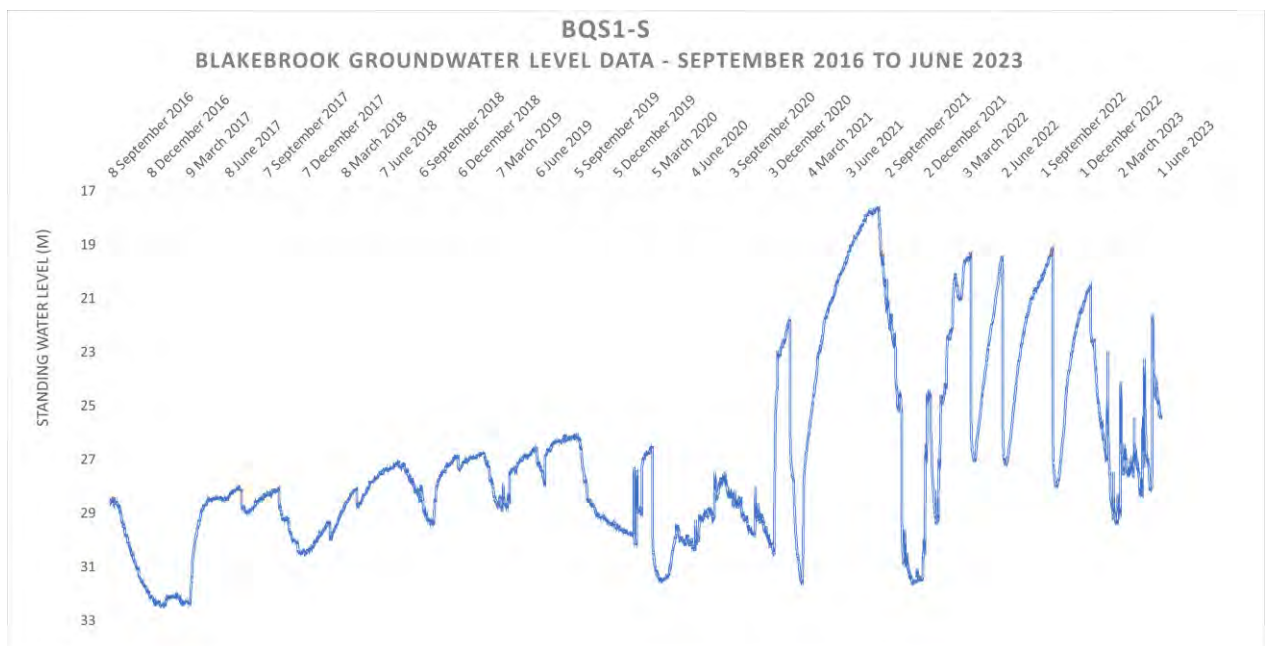
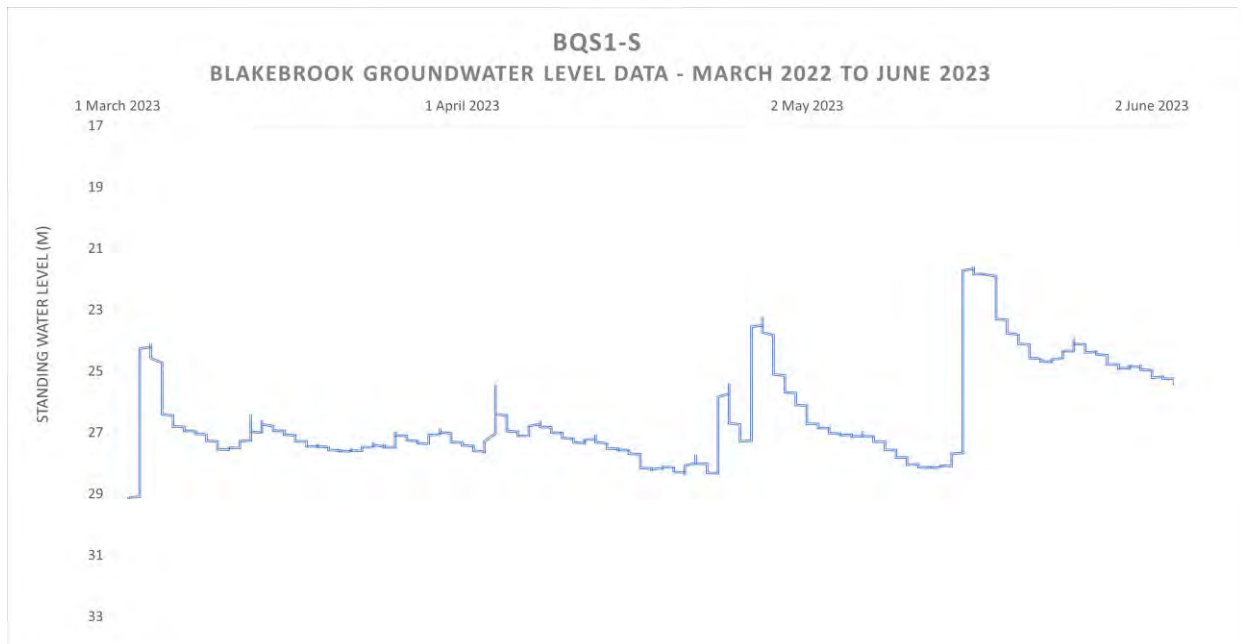
Phone: (02) 6621 5123 Fax:

(02) 6621 8123 Email:

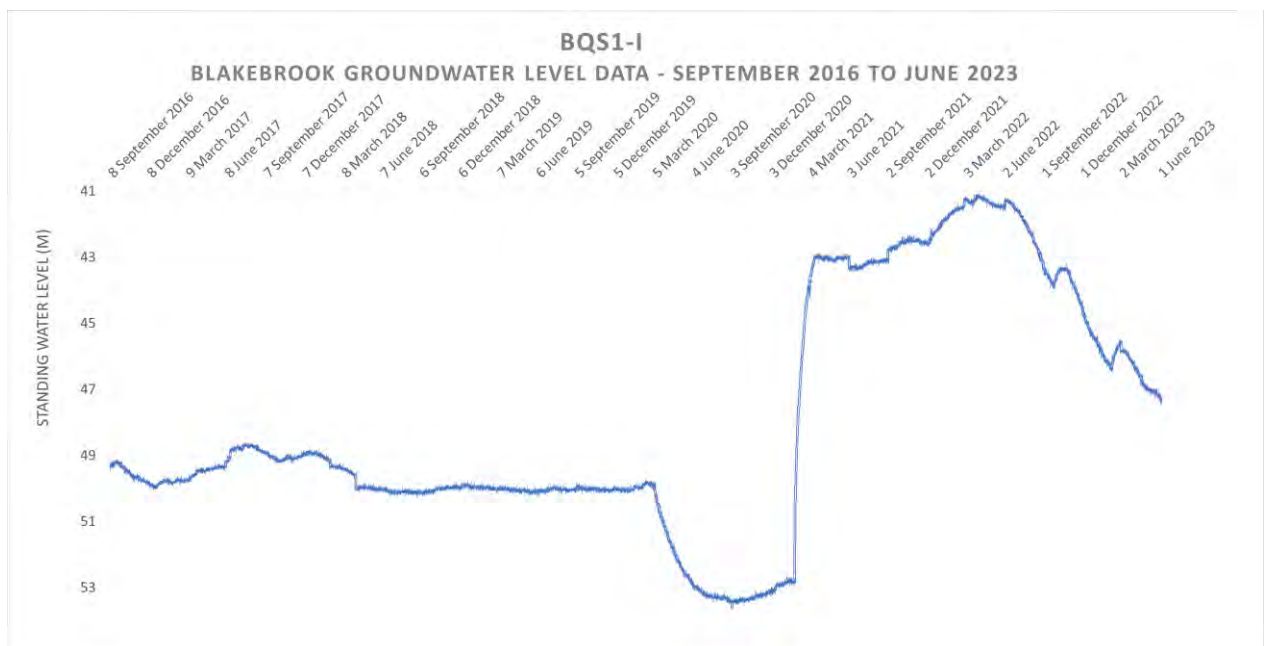
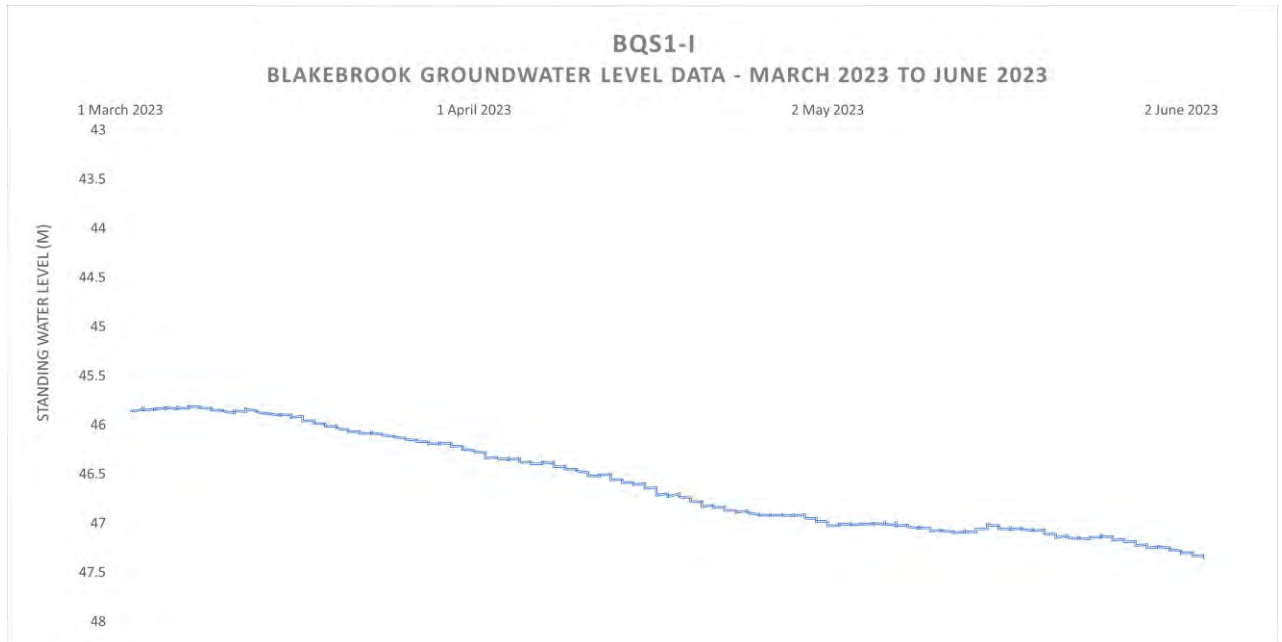
info@ecoteam.com.au Web:

www.ecoteam.com.au

Blakebrook Groundwater Wells – SOUTH 1 BQS1- S (Shallow)

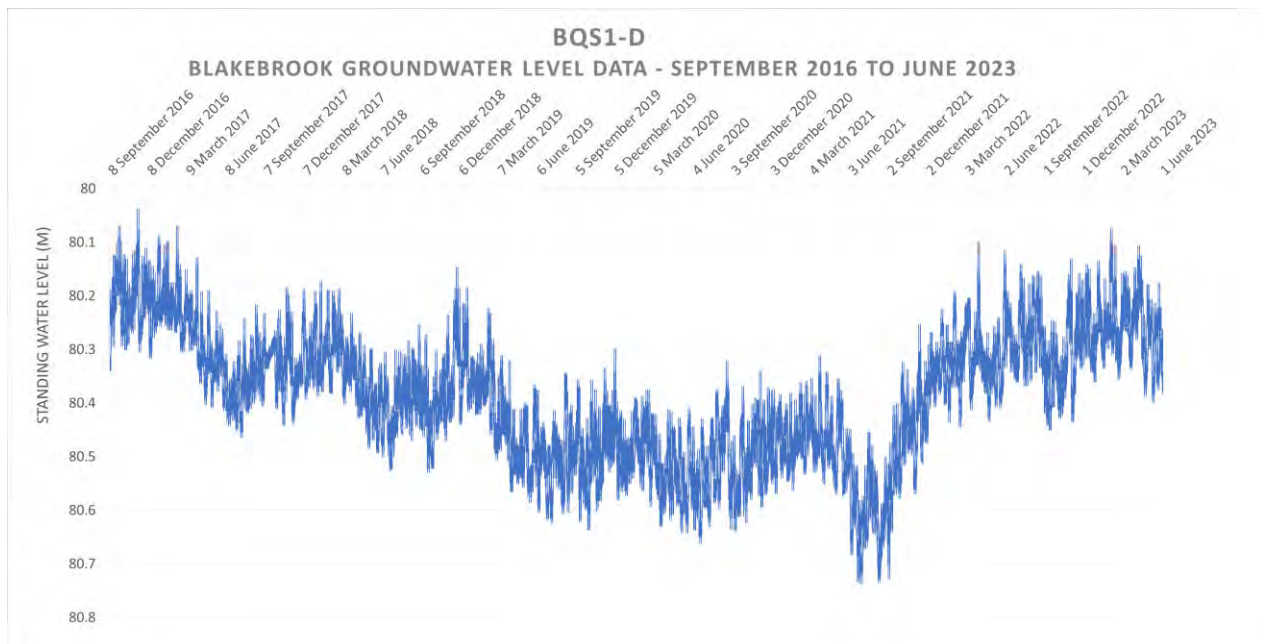
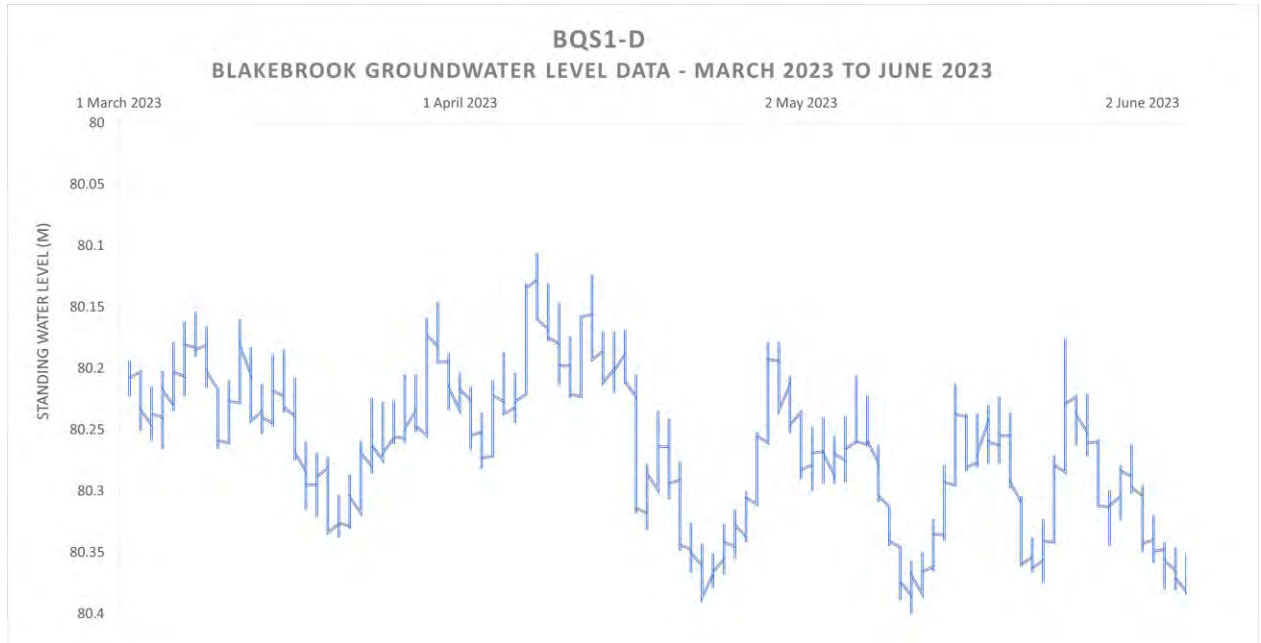


Blakebrook Groundwater Wells – SOUTH 1 BSQS1- I (Intermediate)



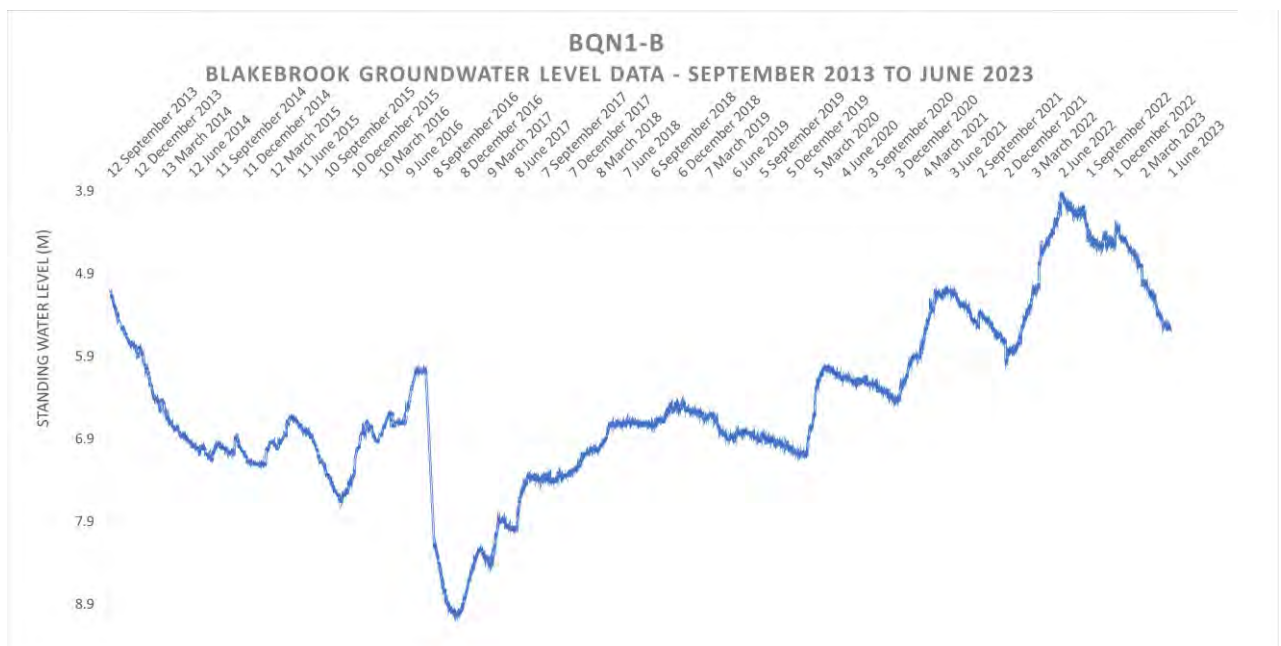
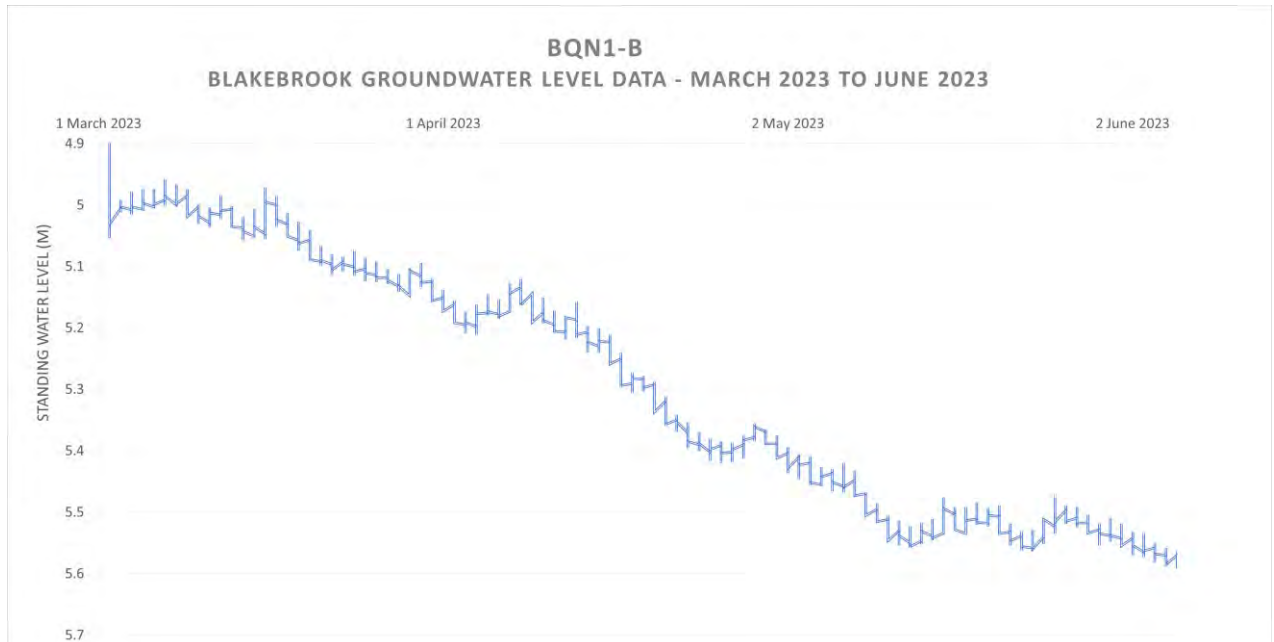
Blakebrook Groundwater Wells -SOUTH 1

BQS1- D (Deep)

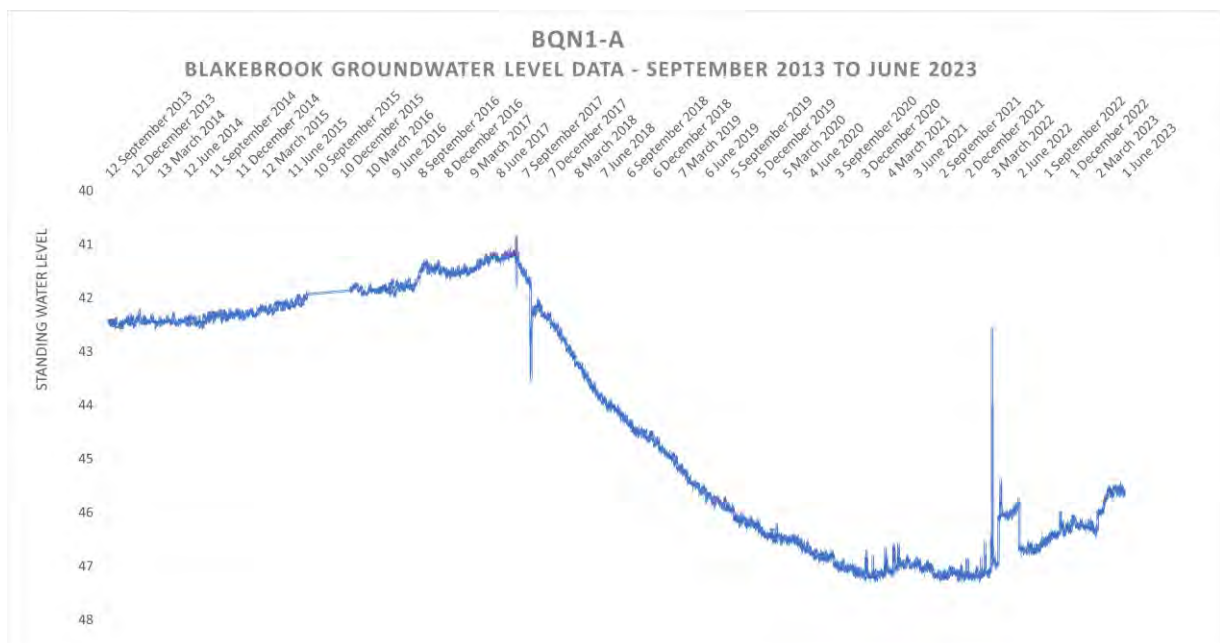
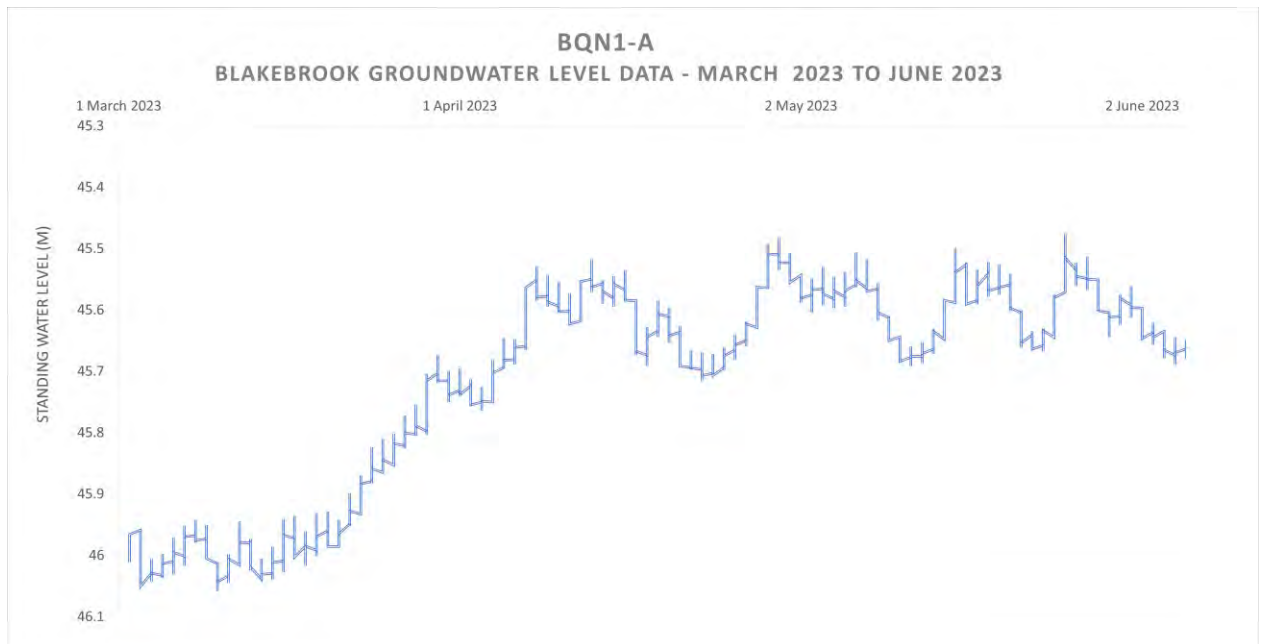


Blakebrook Groundwater Wells -NORTH 1

BQN1- B (Shallow)

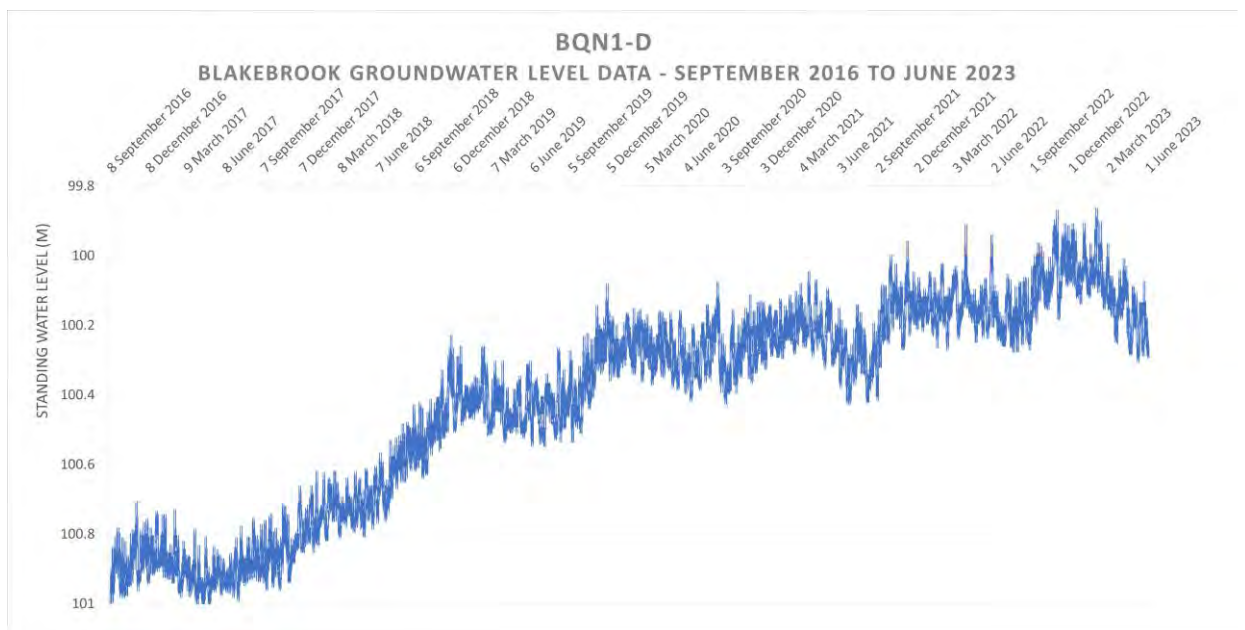
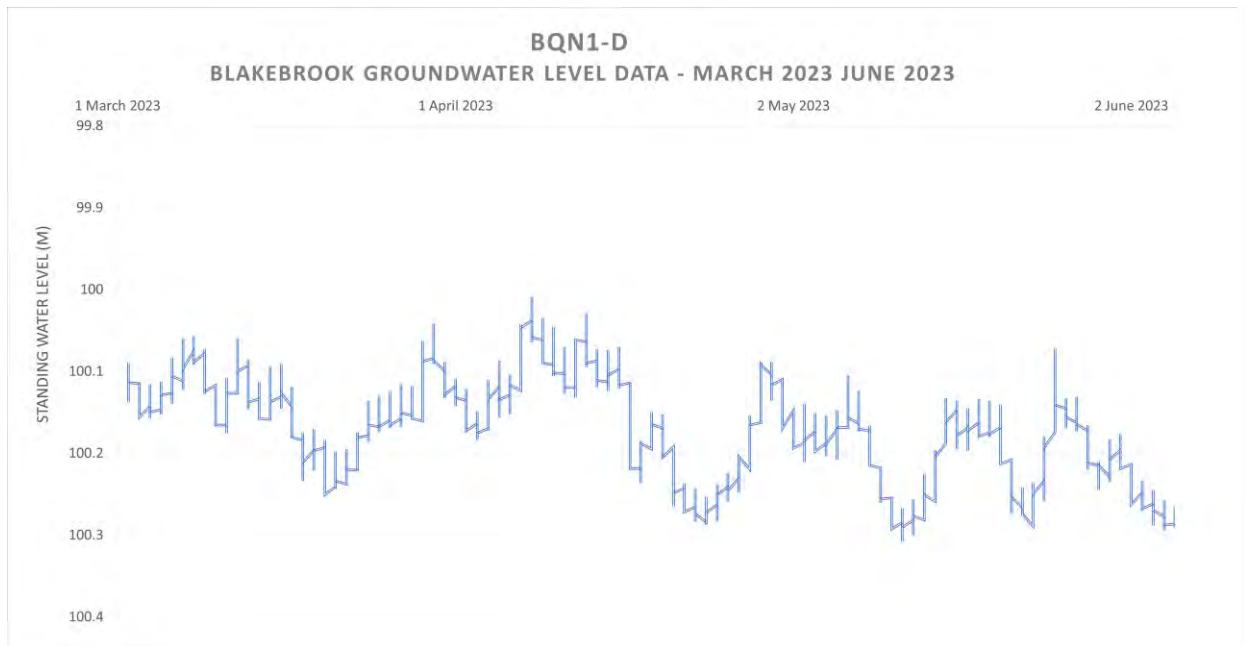


Blakebrook Groundwater Wells -NORTH 1 BQN1- A (Intermediate)

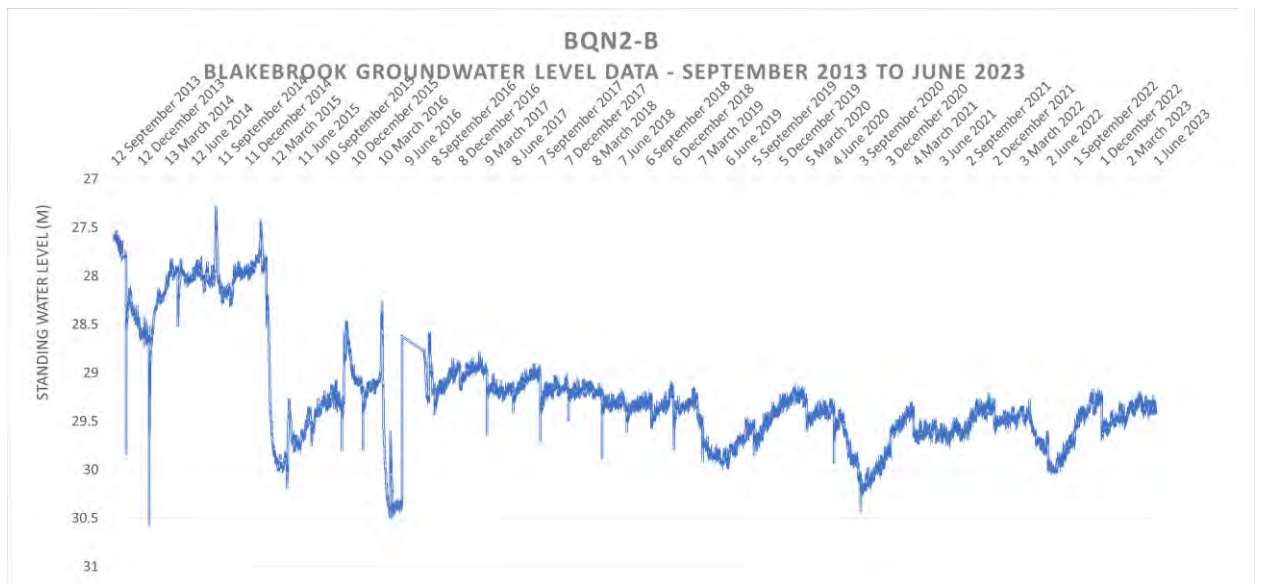
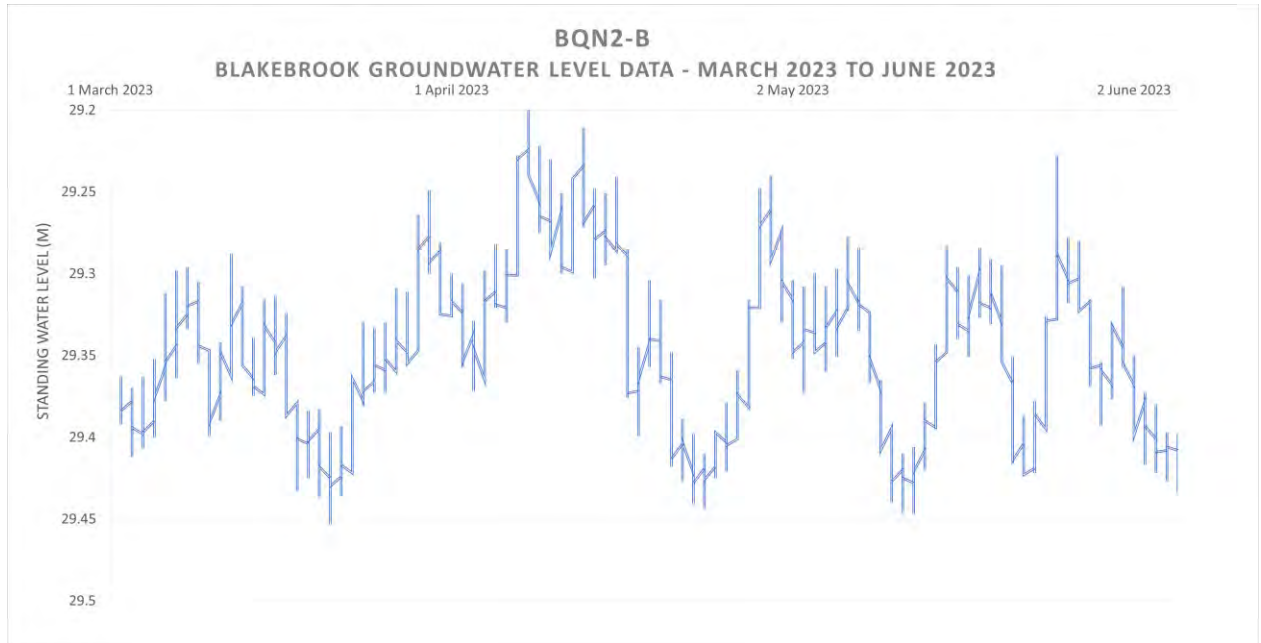


Blakebrook Groundwater Wells -NORTH 1

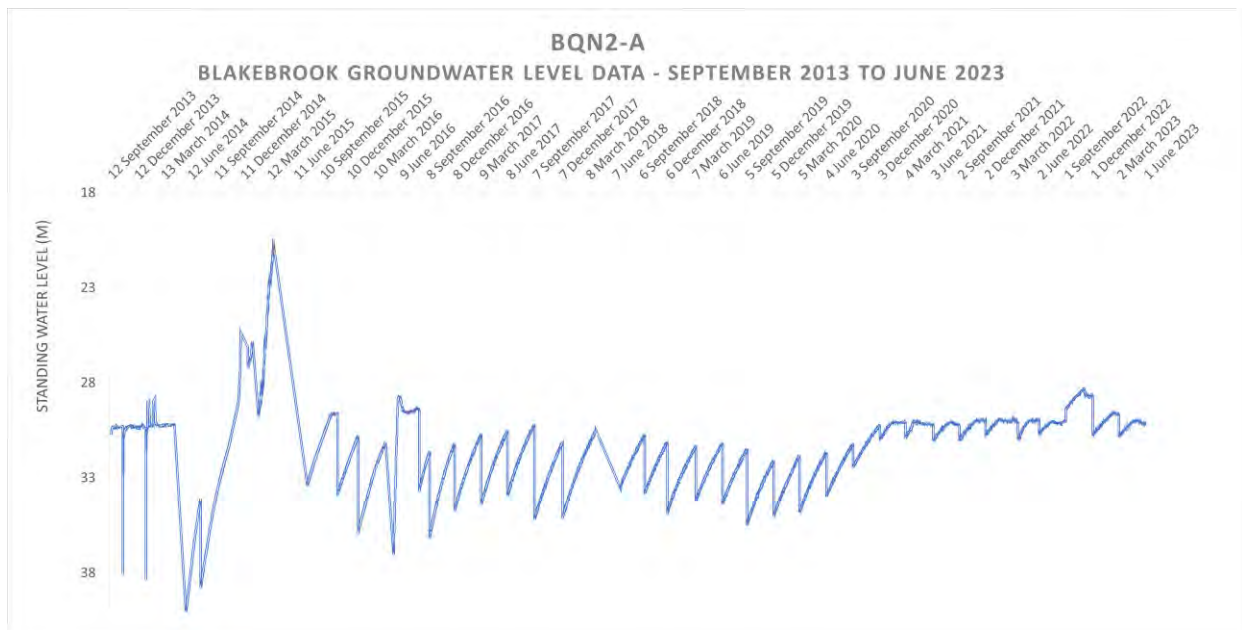
BQN1- D (Deep)



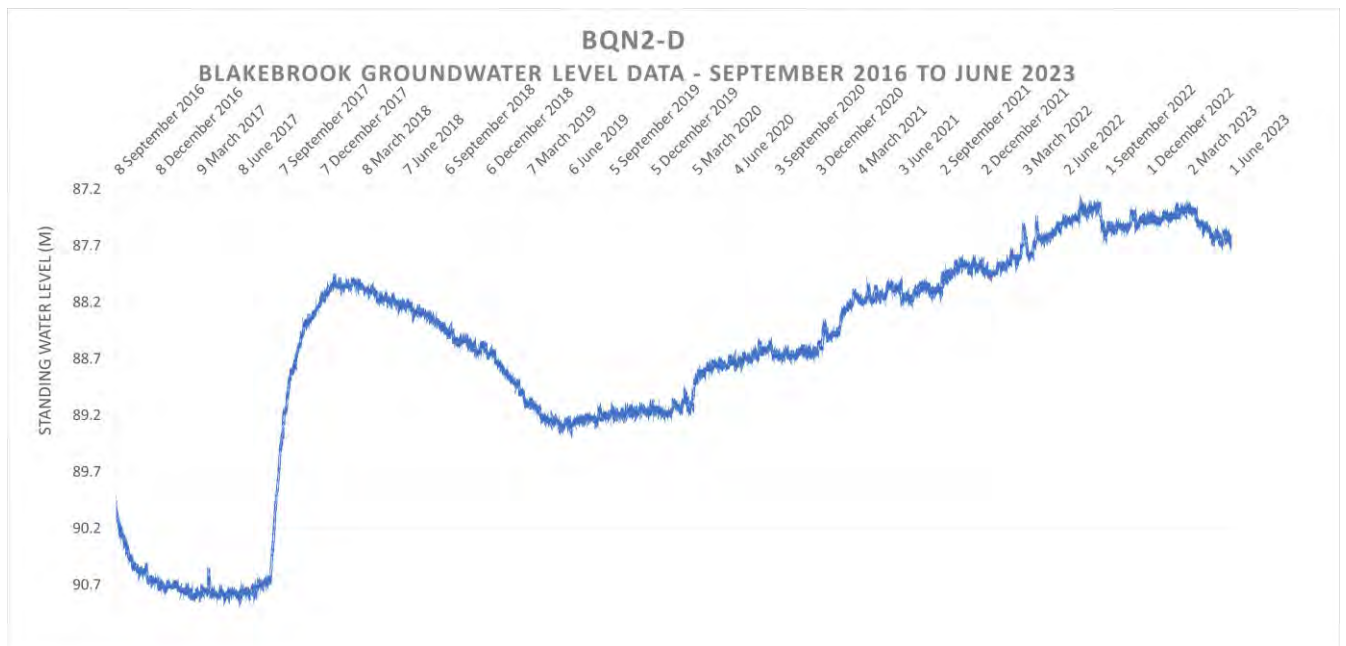
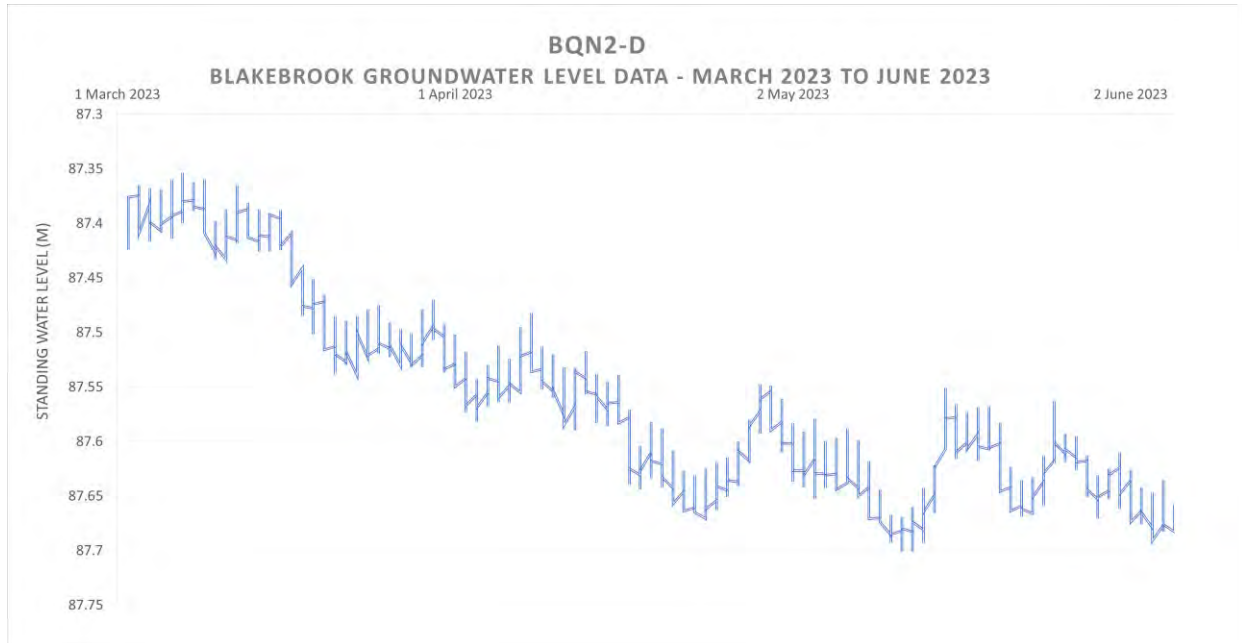
Blakebrook Groundwater Wells -NORTH 2 BQN2- B (Shallow)



Blakebrook Groundwater Wells -NORTH 2 BQN2- A (Intermediate)



Blakebrook Groundwater Wells -NORTH 2 BQN2- D (Deep)



Thursday 21st September 2023 R1

To: [REDACTED]
 Compliance Officer, Lismore City Council
 Blakebrook Quarry Water Quality Sampling

[REDACTED]
 Environmental Engineer &
 Director
 lise@ecoteam.com.au
 mob: 0428-215-124
 office: (02) 66-215-123
 fax: (02) 66-218-123
 ABN: 82 106 758 123

Re: Groundwater Quality Monitoring Results & Report for Blakebrook Quarry

Reporting period: 1st June 2023 to 1st September 2023

1.0 INTRODUCTION

Ecoteam is engaged to undertake quarterly groundwater quality and water level monitoring on behalf of Lismore City Council for the Blakebrook Quarry, Blakebrook, NSW. This report presents results from the September 2023 sampling round.

2.0 PROJECT AIMS AND SAMPLING OBJECTIVES

The aim of the groundwater monitoring is to monitor groundwater quality and water levels at the Blakebrook Quarry site as per Northern Rivers Quarry - Blakebrook Quarry Monitoring Procedure (Groundwater) -Work Method Statement 2. The project objectives are to detect any potential changes in water quality or water levels within groundwater wells which may be a result of the Blakebrook Quarry activities, to calibrate the level meters, and assess the functioning of water level meters at the site.

3.0 SAMPLING LOCATIONS

Water samples and level data were collected from all 9 groundwater bores. Sample codes and corresponding sampling locations are shown in **Table 1** and **Figure 1**.

Table 1. Quarterly groundwater sampling sites, sample codes and well information

Bore ID	RN (NOW)	Easting	Northing	Completion date	TD (mBGL)	Water strike (mBGL)	Casing Depth (mBGL)	Screened (mBGL)	SWL (mBGL)
Northern Two Clusters of Monitoring Bores (re. BQN1A, BQN1B, BQN2A, BQN2B, NOW & Cook p4 (2016))									
BQN1-B (BQN1-S)	GW307 323	524993.7	6818662.9	25/7/13	30	15 - 19	30	12 - 21	4.5
BQN1-A (BQN1-I)	GW307 322	524757.0	6818728.0	26/7/13	60	52 - 60	48	48 - 60	42.5
BQN1-D		524994	6818654.5	29/8/16	115	56 - 63; 99 - 109	115	97 - 109	?
BQN2-B (BQN2-S)	GW307 325	524437.7	6818619	28/7/13	42	28 - 38	42	30 - 42	28.5
BQN2-A (BQN2-S)	GW307 324	524436.7	6818615.5	27/7/13	60	52 - 60	60	51 - 60	31.3
BQN2-D		524447.5	6818616.5	29/8/16	133	19 - 24; 44 - 46.5; 112 - 117	133	109 - 121	
Southern Cluster of Monitoring Bores (re. Form A - particulars of completed work, 25/08/16 & GS letter 27/07/17)									
Bore ID	RN (NOW)	Easting	Northing	Completion date	TD (mBGL)	Water strike (mBGL)	Casing Depth (mBGL)	Screened (mBGL)	SWL (mBGL)
BQS1-S		524684.5	6817848.6	25/8/16	55	38 - 43	55	40 - 52	30
BQS1-I		524681.5	6817842.8	24/8/16	73	34 - 39; 64 - 70	73	58 - 70	30
BQS1-D		524678	6817837.2	23/8/16	102.7	34 - 39; 64 - 72; 95 - 99	102.7	87.7 - 99.7	30



Figure 1. Map of monthly groundwater sampling sites (Source: Lismore City Council).

4.0 SAMPLING METHODOLOGY

Sampling was undertaken by [REDACTED] and [REDACTED] on Monday 4th September 2023. In situ, physico-chemical measurements were collected using an Aquatroll Water Quality Meter and level information was downloaded using the Vu-Situ APP and Wireless TROLL Com instrument and cable connector. Samples collection methods and in-situ results are presented in **Appendix A (Table 2)**. A comparison of results to Trigger Values are presented in **Table 3**. The calibration certificate for the water quality meter is included as **Appendix B**.

Samples were stored on ice and dropped off at the Environmental Analysis Laboratory (EAL) in Lismore. Samples were not field filtered. A full list of analytes for the project are included in **Appendix C**.

5.0 RESULTS

5.1 Physico-chemical Results

In situ, physico-chemical sampling results are shown in **Appendix A (Table 2)**. A comparison of results to Trigger Values are presented in **Table 3**.

- pH was inside the Trigger Values range at all sites.
- Electrical Conductivity (EC) was outside of the 20% Trigger Value range at all sites.

5.2 Laboratory Results

The chain of custody form is included in **Appendix D**. A full copy of the laboratory results is included as **Appendix E**. A comparison of results to Trigger Values are presented in **Table 3**.

- Total oils and grease were above the Trigger Values at BQN1B and BQN2B.
- Total iron was above the Trigger Values at BQN1B.
- Total lead was above the Trigger Values at BQS1S, BQN1B and BQN2A.
- TRH was detected at Sites BQS1I, BQN1D and BQN2A. A silica clean-up which removes natural sources of TRH was performed last sampling round (June). TRH was not detected follow Silica Gel clean in the June sampling suggesting the source is natural origins.
- BTEX was below the adopted Trigger Values at all sites.

5.3 Well Level Results

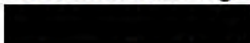
Well level results for the past three months and the last seven years are presented in **Appendix F**.

- Groundwater levels have risen in the South deep well, North 1 deep well and all North 2 wells (BQS1-D, BQN1-D, BQN2-B, BQN2-A, BQN2-D).
- Groundwater levels have fallen in the South shallow and intermediate well and North 1 shallow well (BQS1-S, BQS1-I, BQN1-B).
- Groundwater levels have remained the same in the North 1 intermediate well (BQN1-A).
- Battery levels in all water level meters remain above 50%.
- All level meters appear to be functioning adequately.
- All level meters have been upgraded and calibrated.

6.0 COMMENTS AND RECOMMENDATIONS

EC was above the Trigger Values at all sites. Total lead and total iron were above the Trigger value at some sites. EC and metals can be variable due to climate conditions such as rainfall. It is unlikely that changes are a result of impacts from the quarry site. No further investigation is warranted. TRH has been identified as being present at BQS1I, BQN1D and BQN2A. The levels are very low and unlikely to cause environmental impacts. Further monitoring and silica gel clean up if TRH is detected is recommended.

Kind regards,


Environmental Engineer & Director


mob: 0428-215-124

office: (02) 66-215-123

fax: (02) 66-218-123

ABN: 82 106 758 123

APPENDIX A- Physicochemical and sample Information

Table 2. Results of physico-chemical parameters collected in situ at quarterly sampling.

Sample Information	Blakebrook Quarry Groundwater Well Sampling Information								
	SOUTH			NORTH 1			NORTH 2		
Site Name	BQS1S	BQS1I	BQS1D	BQN1B	BQN1A	BQN1D	BQN2B	BQN2A	BQN2D
Well Type	Shallow	Intermediate	Deep	Shallow	Intermediate	Deep	Shallow	Intermediate	Deep
Date	04/09/23	04/09/23	04/09/23	04/09/23	04/09/23	04/09/23	04/09/23	04/09/23	04/09/23
Time	10:20 AM	9:50 AM	9:40 AM	11:10 AM	12:10 PM	11:10 AM	8:50 AM	8:20 AM	8:15 AM
Recorded Depth 1	30.72	48.10	80.20	7.72	45.96	100.11	29.12	30.10	87.50
Recorded Depth 2	31.13	48.66	80.25	7.70	45.97	100.11	29.48	31.02	87.57
Level Meter Calibrated	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Battery Level	53%	53%	53%	53%	53%	53%	53%	53%	53%
Memory Level	81%	84%	81%	81%	84%	75%	84%	87%	78%
Sample Method	Bottom filling Bailer from screen zone	Bottom filling Bailer from screen zone	Hydro sleeve Bailer from screen zone	12-volt submersible pump	Bottom filling Bailer from screen zone	Hydro sleeve Bailer from screen zone	Bottom filling Bailer from screen zone	Bottom filling Bailer from screen zone	Hydro sleeve Bailer from screen zone
Odour	Not Present	Not Present	Present-Sulfur	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present
Site/Water Observations	Clear	Clear	Clear, large particles	Clear	Milky colour	Clear	Clear	Clear	Clear, some particles
Fresh Water WQOs	Water Quality Observations								
pH	6.83	8.00	8.07	7.10	11.27	8.52	9.00	7.53	8.89
EC dS/m	0.22	1.02	1.32	0.85	1.52	1.00	0.91	0.39	0.69
DO (%)	51.77	65.09	48.01	6.18	73.91	75.56	65.06	80.05	58.21
Temperature (°C)	19.52	19.59	20.00	20.44	20.39	20.71	18.83	19.28	19.49
ORP	63.58	-28.64	-115.5	-33.4	4.00	-79.3	55.99	70.01	48.18

Table 3. Results quarterly sampling compared to Trigger Values.

Sample Information	Blakebrook Quarry Groundwater Well Sampling								
	SOUTH			NORTH 1			NORTH 2		
Site Name	BQS1S	BQS1I	BQS1D	BQN1B	BQN1A	BQN1D	BQN2B	BQN2A	BQN2D
Well Type	Shallow	Intermediate	Deep	Shallow	Intermediate	Deep	Shallow	Intermediate	Deep
Sample date	04/09/23	04/09/23	04/09/23	04/09/23	04/09/23	04/09/23	04/09/23	04/09/23	04/09/23
Trigger Value comparison	Trigger Value comparison								
pH Trigger Value	7.12	8.12	8.30	7.18	11.34	9.10	11.07	8.67	8.85
pH (Sample Date-4/09/2023)	6.83	8	8.07	7.1	11.27	8.52	9	7.53	8.89
Outside of 20% range	No	No	No	No	No	No	No	No	No
EC (dS/m) Trigger Value	0.512	1.624	1.829	1.171	2.082	1.44	1.138	1.2	1.014
EC (dS/m) (Sample Date-4/09/2023)	0.22	1.02	1.32	0.85	1.52	1	0.91	0.39	0.69
Outside of 20% range	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Total oils and grease (mg/L) Trigger Value	10.8	21	14.2	4.1	9	4.4	3.6	6.9	4
TOG (mg/L) (Sample Date-4/09/2023)	<2	<2	6.5	7.6	4.3	4.0	4.9	3.2	3.1
Above Trigger Value	No	No	No	Yes	No	No	Yes	No	No
Iron- Total (mg/L) Trigger Value	1.829	4.977	6.58	2.162	1.972	97.645	0.579	0.301	3.904
Iron (mg/L) (Sample Date-4/09/2023)	0.759	0.100	0.225	2.26	0.606	0.483	0.244	0.142	0.185
Above Trigger Value	No	No	No	Yes	No	No	No	No	No
Lead- Total (mg/L) Trigger Value	0.001	0.005	0.009	0.001	0.018	0.008	0.004	0.002	0.005
Lead (Sample Date-4/09/2023)	0.002	0.001	0.001	<0.001	0.004	0.004	0.001	0.003	0.003
Above Trigger Value	Yes	No	No	Yes	No	No	No	Yes	No
TRH -Total (mg/L) (Sample Date-4/09/2023)									
Present or absent	Absent	Present	Absent	Absent	Absent	Present	Absent	Absent	Present
BTEX (Sample Date-4/09/2023)									
Present or absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent

Notes: Results above/outside of Trigger Values have been highlighted

Appendix B - Calibration certificate for Water Quality Meter

Calibration Report

Instrument Aqua TROLL 500
Serial Number 757823
Created 21/11/2022

Sensor **Turbidity**
Serial Number 754060
Last Calibrated Factory Defaults

Sensor **RDO**
Serial Number 754373
Last Calibrated 10/07/2022

Calibration Details

Slope 1
Offset -0.10 mg/L

Pre Measurement

RDO Concentration 8.74 mg/L

Post Measurement

RDO Concentration 8.75 mg/L

Sensor **pH/ORP**
Serial Number 742301
Last Calibrated 21/11/2022

Calibration Details

Calibration Point 1

pH of Buffer 4.01 pH
pH mV 96.0 mV
Temperature 29.11 °C

Pre Measurement

pH 4.22 pH
pH mV 96.0 mV

Post Measurement

pH 4.01 pH
pH mV 97.4 mV

Calibration Point 2

pH of Buffer 6.99 pH
pH mV -71.3 mV
Temperature 30.21 °C

Pre Measurement

pH 7.11 pH
pH mV -71.6 mV

Post Measurement

pH 6.99 pH
pH mV -72.6 mV

Slope and Offset 1

Slope -56.17 mV/pH
Offset -71.9 mV

ORP

ORP Solution Zobell's
Offset 55.0 mV
Temperature 30.27 °C
Pre Measurement 167.7 mV
Post Measurement 222.2 mV

Sensor **Conductivity**
Serial Number 756927
Last Calibrated 10/07/2022

Calibration Details

TDS Conversion Factor (ppm) 0.65
Cell Constant 0.873
Reference Temperature 20.00 °C

Appendix C - Full List of Sampling Analytes

Field

- pH
- Electrical Conductivity (EC)
- Dissolved Oxygen (DO)
- Temperature
- Oxidation Reduction Potential

Laboratory

- Total Petroleum Hydrocarbons (TPH,) C10-C40
- Benzene, Toluene, Ethylbenzene Xylene (BTEX)
- Total iron
- Total lead
- Dissolved iron
- Dissolved lead
- Total oils and grease -Hexane Extractable
- Major ions (Sulfate, Chloride)
- Major cations (Calcium, Magnesium, sodium, potassium)

Appendix D - Chain of Custody Form

CHAIN OF CUSTODY																					
<div style="text-align: center;"> <p>eal Environmental Analysis Laboratory Southern Cross University</p> </div> <p>PO Box 157 (Military Road) LISMORE NSW 2480 P 02 6620 3678 F 02 6620 3957 eal@scu.edu.au, www.scu.edu.au/eal</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Submitting Client Details</th> <th style="text-align: left;">Billing Client Details</th> </tr> <tr> <td>Quote Id: EALQ5621</td> <td>ABN:</td> </tr> <tr> <td>Job Ref: SMC010-Blakebrook WQ- Groundwater- SEPT23</td> <td>Company Name: Ecoteam</td> </tr> <tr> <td>Company Name: Ecoteam</td> <td>Contact Person: [REDACTED]</td> </tr> <tr> <td>Contact Person: [REDACTED]</td> <td>Phone: 02 66215123</td> </tr> <tr> <td>Phone: 66215123</td> <td>Mobile: 0428215124</td> </tr> <tr> <td>Mobile: 0428215124</td> <td>Fax:</td> </tr> <tr> <td>Fax:</td> <td>Email: [REDACTED]</td> </tr> <tr> <td>Email: [REDACTED]</td> <td>Postal Address: 13 Ewing Street, Lismore</td> </tr> <tr> <td>Postal Address: 13 Ewing Street, Lismore</td> <td></td> </tr> </table>	Submitting Client Details	Billing Client Details	Quote Id: EALQ5621	ABN:	Job Ref: SMC010-Blakebrook WQ- Groundwater- SEPT23	Company Name: Ecoteam	Company Name: Ecoteam	Contact Person: [REDACTED]	Contact Person: [REDACTED]	Phone: 02 66215123	Phone: 66215123	Mobile: 0428215124	Mobile: 0428215124	Fax:	Fax:	Email: [REDACTED]	Email: [REDACTED]	Postal Address: 13 Ewing Street, Lismore	Postal Address: 13 Ewing Street, Lismore	
Submitting Client Details	Billing Client Details																				
Quote Id: EALQ5621	ABN:																				
Job Ref: SMC010-Blakebrook WQ- Groundwater- SEPT23	Company Name: Ecoteam																				
Company Name: Ecoteam	Contact Person: [REDACTED]																				
Contact Person: [REDACTED]	Phone: 02 66215123																				
Phone: 66215123	Mobile: 0428215124																				
Mobile: 0428215124	Fax:																				
Fax:	Email: [REDACTED]																				
Email: [REDACTED]	Postal Address: 13 Ewing Street, Lismore																				
Postal Address: 13 Ewing Street, Lismore																					

This section will be destroyed after being processed. Only Complete CVV number if you are supplying the original hardcopy to EAL.

Payment Method:

- ☐ Purchase Order
☐ Cheque
☐ Invoice (prior approval required)
☐ Credit Card Mastercard / Visa No: _____

Exp. Date: _____ Name on Card: _____ CVV: _____

Comments:

DO NOT TEST FOR Ph or EC

Perform a silica gel clean-up for sample which have TRH above the LOR

Marketing Survey – where did you find us?

- ☐ Word of mouth ☐ Magazine ☐ Google search ☐ Other

Relinquished By: [REDACTED]	Date: 4/9/23	Signed: [REDACTED]
Preservation: None / Ice / Ice Slush / Refrigerated / Filtered / Other:		
Received By: [REDACTED]	Date: 4-9-23	Signed: 3-11
Condition on receipt: Ambient / Cool / Frozen / Other:		

Sample Analysis Request

Price List Code (e.g. SW-PACK-06)

Lab Sample No.	Sample ID	Sample Depth	Sampling Date	Your Client	Crop ID	Sample Type (e.g. water, leaf, soil)	Salt-Sulphate (no pH or EC) SW-PACK-014	TPH and BTEX SW-PACK-042	TOG SW-SING-001	Dissolved Iron SW-SING-103	Dissolved Lead SW-SING-103	Total Available Iron SW-SING-104	Total Available Lead SW-SING-104	Silica Gel Clean up for TRH	
1	BQN1-B		4/9/23		19'	Water	x	x	x	x	x	x	x	Hold	
2	BQN1-A				20'	Water	x	x	x	x	x	x	x	Hold	
3	BQN1-D				16.5'	Water	x	x	x	x	x	x	x	Hold	
4	BQN2-B				17'	Water	x	x	x	x	x	x	x	Hold	
5	BQN2-A				17.5'	Water	x	x	x	x	x	x	x	Hold	
6	BQN2-D		✓		16.5'	Water	x	x	x	x	x	x	x	Hold	

EAL Chain of Custody
Issue: V1.1 27/09/2016

EAL Project Reference:

P4895 . . 9x water

QFORM 4.2
Page 1 of 2

CHAIN OF CUSTODY

Comments:

DO NOT TEST FOR Ph or EC

Perform a silica gel clean-up for sample which have TRH above the LOR

Marketing Survey – where did you find us?

☐ Word of mouth ☐ Magazine ☐ Google search ☐ Other

[illegible]

Tab through for extra lines

Appendix E - Full Laboratory Results

RESULTS OF WATER ANALYSIS

9 samples supplied by Ecoteam on 4/09/2023. Lab Job No. P4895.
 Samples submitted by [REDACTED], Your Job: SMC010-Blakebrook WQ-Groundwater_SEPT23
 13 Ewing Street USMORÉ NSW 2480

Parameter	Methods reference	Sample 1 BQN1-B	Sample 2 BQN1-A	Sample 3 BQN1-D	Sample 4 BQN2-B	Sample 5 BQN2-A	Sample 6 BQN2-D	Sample 7 BQS1-S	Sample 8 BQS1-I	Sample 9 BQS1-D
	Job No.	P4895/1	P4895/2	P4895/3	P4895/4	P4895/5	P4895/6	P4895/7	P4895/8	P4895/9
Total Alkalinity (mg/L CaCO ₃ equivalent)	** Total Alkalinity - APHA 2320	245	170	183	180	182	339	145	238	159
Water Hardness (mg/L CaCO ₃ equivalent)	** Using Ca and Mg calculation	150	152	23	81	95	10	88	85	40
Total Oils and Grease (mg/L)	APHA 5520-D (hexane extractable)	7.6	4.3	4.0	4.9	3.2	3.1	<2	<2	6.5
Sodium (mg/L)	APHA 3125 ICPMS ^{9,10,12}	178	312	271	223	78.8	221	40.5	288	385
Potassium (mg/L)	APHA 3125 ICPMS ^{9,10,12}	3.9	8.9	2.1	6.8	4.5	2.0	3.3	5.0	4.0
Calcium (mg/L)	APHA 3125 ICPMS ^{9,10,12}	28.2	56.4	7.8	23.6	22.2	3.3	16.8	25.7	12.7
Magnesium (mg/L)	APHA 3125 ICPMS ^{9,10,12}	19.4	3.3	0.9	5.3	9.7	0.5	6.4	5.2	1.9
Sodium Absorption Ratio (SAR)	** By calculation	6.3	11.0	24.4	10.8	3.5	30.2	2.1	12.6	25.2
Chloride (mg/L)	APHA 3125 ICPMS ^{9,10,12}	239	503	323	293	71	111	21	325	474
Sulfate (mg/L SO ₄ ²⁻)	APHA 3125 ICPMS ^{9,10,12}	10	21	47	26	13	20	<9	10	31
Chloride/Sulfate Ratio	** Calculation	24.1	23.6	6.9	11.2	5.6	5.4	..	32.2	15.1
Iron (mg/L)	Total Available - APHA 3125 ICPMS ^{9,10,12}	2.26	0.806	0.483	0.244	0.142	0.185	0.759	0.100	0.225
Lead (mg/L)	Total Available - APHA 3125 ICPMS ^{9,10,12}	<0.001	0.004	0.004	0.001	0.003	0.003	0.002	0.001	0.001
Iron (mg/L)	Dissolved - APHA 3125 ICPMS ^{9,10,12}	0.856	0.005	0.009	0.007	<0.005	<0.005	<0.005	0.017	0.010
Lead (mg/L)	Dissolved - APHA 3125 ICPMS ^{9,10,12}	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
BTEX										
Benzene (µg/L)	Subcontracted: SGG report SE 253461	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene (µg/L)	Subcontracted: SGG report SE 253461	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene (µg/L)	Subcontracted: SGG report SE 253461	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
m,p-xylene (µg/L)	Subcontracted: SGG report SE 253461	<1	<1	<1	<1	<1	<1	<1	<1	<1
o-xylene (µg/L)	Subcontracted: SGG report SE 253461	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Xylenes (µg/L)	Subcontracted: SGG report SE 253461	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
Total BTEX (µg/L)	Subcontracted: SGG report SE 253461	<3	<3	<3	<3	<3	<3	<3	<3	<3
Naphthalene (VOC) (µg/L)	Subcontracted: SGG report SE 253461	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Recoverable Hydrocarbons (TRH)										
TRH C8-C9 (µg/L)	Subcontracted: SGG report SE 253461	<40	<40	260	<40	<40	45	<40	140	<40
Benzene (F8) (µg/L)	Subcontracted: SGG report SE 253461	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TRH C8-C10 (µg/L)	Subcontracted: SGG report SE 253461	<50	<50	300	<50	<50	52	<50	160	<50
TRH C8-C10 minus BTEX (F1) (µg/L)	Subcontracted: SGG report SE 253461	<50	<50	300	<50	<50	52	<50	160	<50
TRH C10-C14 (µg/L)	Subcontracted: SGG report SE 253461	<50	<50	<50	<50	<50	<50	<50	<50	<50
TRH C16-C28 (µg/L)	Subcontracted: SGG report SE 253461	<200	<200	<200	<200	<200	<200	<200	450	<200
TRH C29-C38 (µg/L)	Subcontracted: SGG report SE 253461	<200	<200	<200	<200	<200	<200	<200	<200	<200
TRH C37-C40 (µg/L)	Subcontracted: SGG report SE 253461	<200	<200	<200	<200	<200	<200	<200	<200	<200
TRH >C10-C18 (µg/L)	Subcontracted: SGG report SE 253461	<80	<80	<80	<80	<80	<80	<80	<80	<80
TRH >C10-C18 - Naphthalene (F2) (µg/L)	Subcontracted: SGG report SE 253461	<80	<80	<80	<80	<80	<80	<80	<80	<80
TRH >C18-C34 (F3) (µg/L)	Subcontracted: SGG report SE 253461	<500	<500	<500	<500	<500	<500	<500	<500	<500
TRH >C34-C40 (F4) (µg/L)	Subcontracted: SGG report SE 253461	<500	<500	<500	<500	<500	<500	<500	<500	<500
TRH C10-C40 (µg/L)	Subcontracted: SGG report SE 253461	<320	<320	<320	<320	<320	<320	<320	480	<320

Notes:

1. Total metals - samples digested with nitric acid; Total available (acid soluble/ extractable) metals - samples acidified with nitric acid to pH <2;
 Dissolved metals - samples filtered through 0.45µm cellulose acetate and then acidified with nitric acid prior to analysis
2. Metals and salts analysed by Inductively Coupled Plasma - Mass Spectrometry (ICP-MS).
3. 1 mg/L (milligram per litre) = 1 ppm (part per million) = 1000 µg/L (micrograms per litre) = 1000 ppb (part per billion).
4. For conductivity 1 dS/m = 1 mS/cm = 1000 µS/cm.
5. Analysis performed according to APHA (2017) 'Standard Methods for the Examination of Water & Wastewater', 23rd Edition, except where stated otherwise.
6. Analysis conducted between sample arrival date and reporting date.
7. ** NATA accreditation does not cover the performance of this service.
8. .. Denotes not requested.
9. This report is not to be reproduced except in full.
10. All services undertaken by EAL are covered by the EAL Laboratory Services Terms and Conditions (refer sou.edu.au/eal or on request).
11. Results relate only to the samples tested.
12. This report was issued on 18/09/2023.



Appendix F - Hydrographs



Blakebrook Quarry- Groundwater Monitoring

Groundwater Hydrographs

September 2023



13 Ewing Street, LISMORE
NSW 2480 Australia

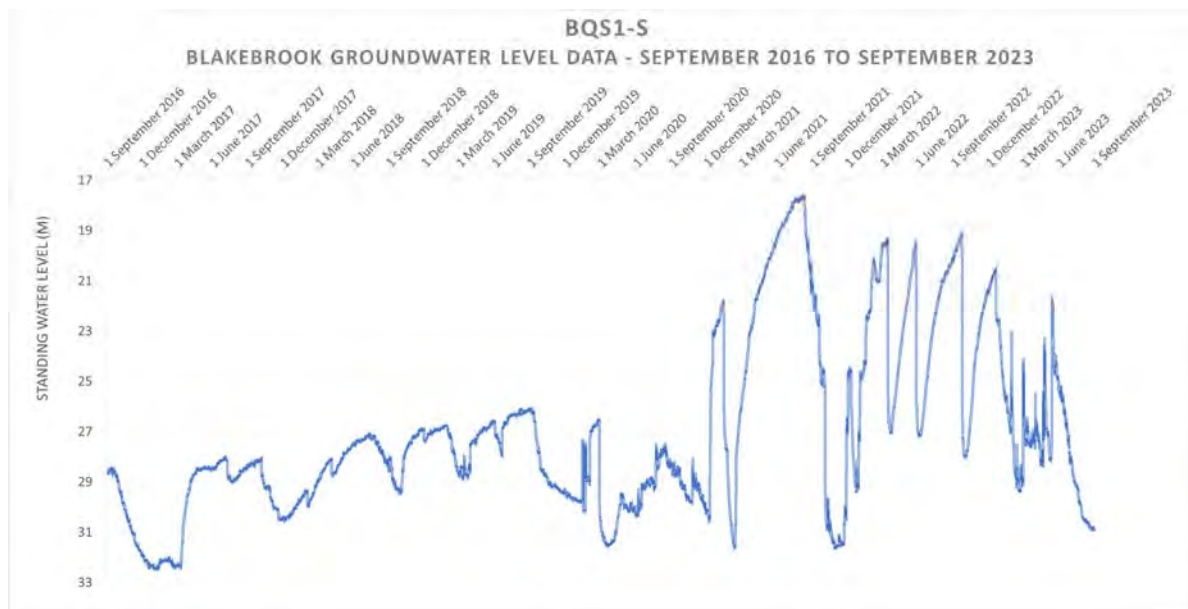
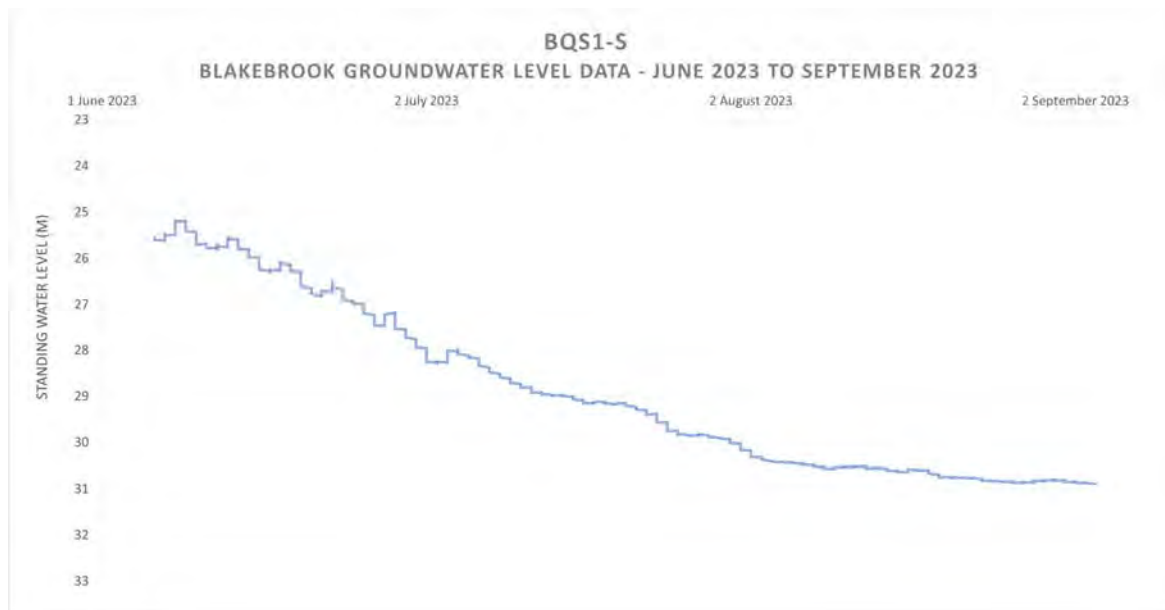
Phone: (02) 6621 5123

Fax: (02) 6621 8123

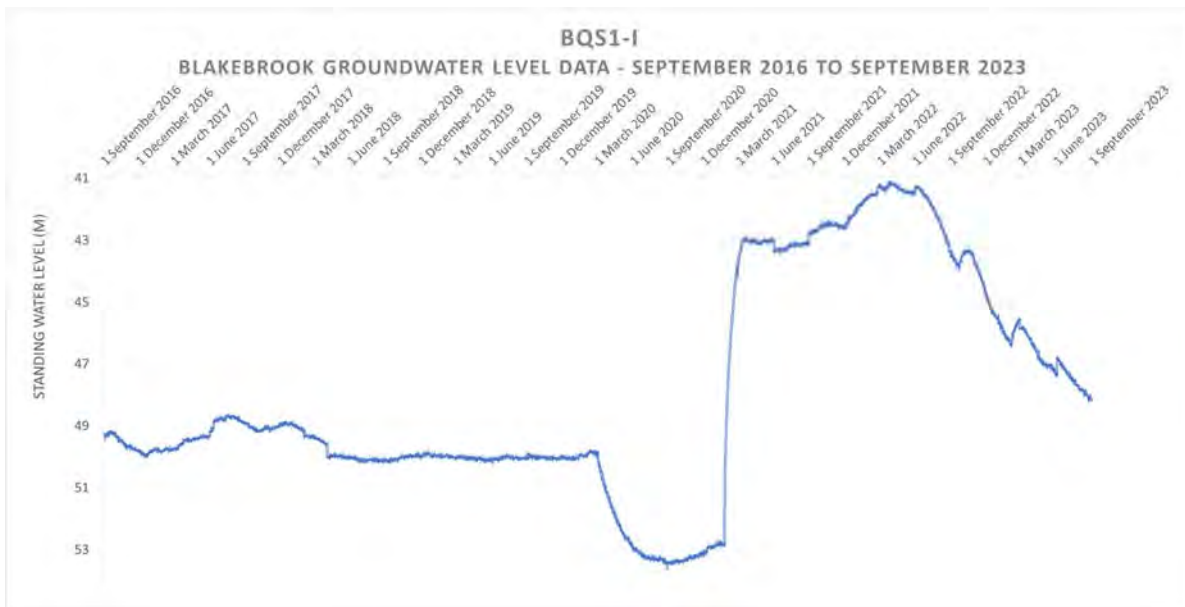
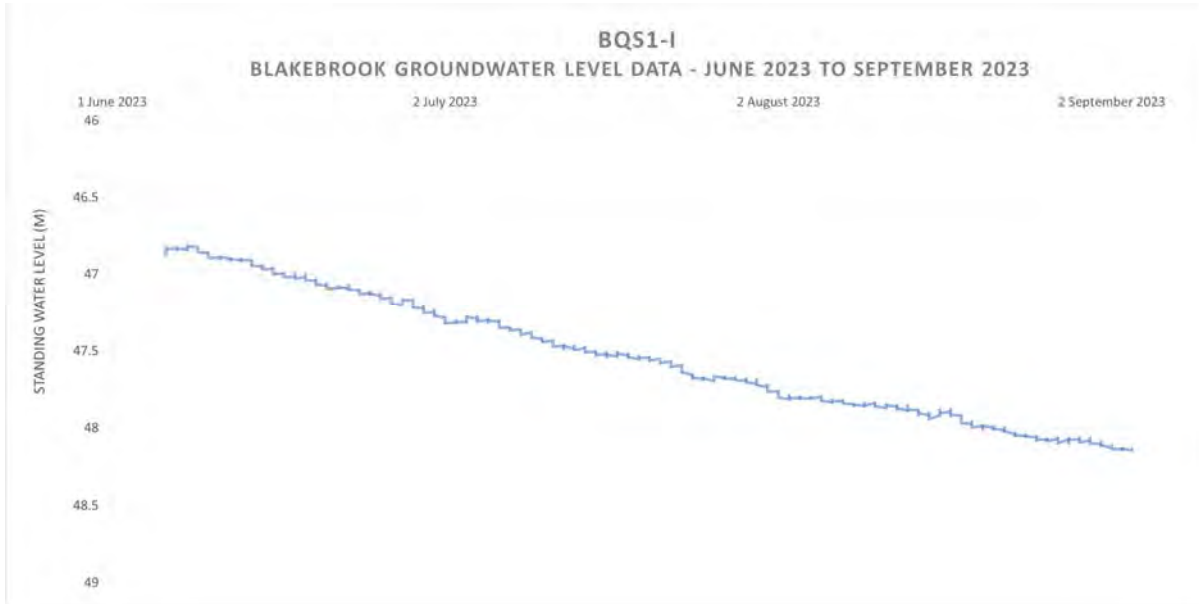
Email: info@ecoteam.com.au

Web: www.ecoteam.com.au

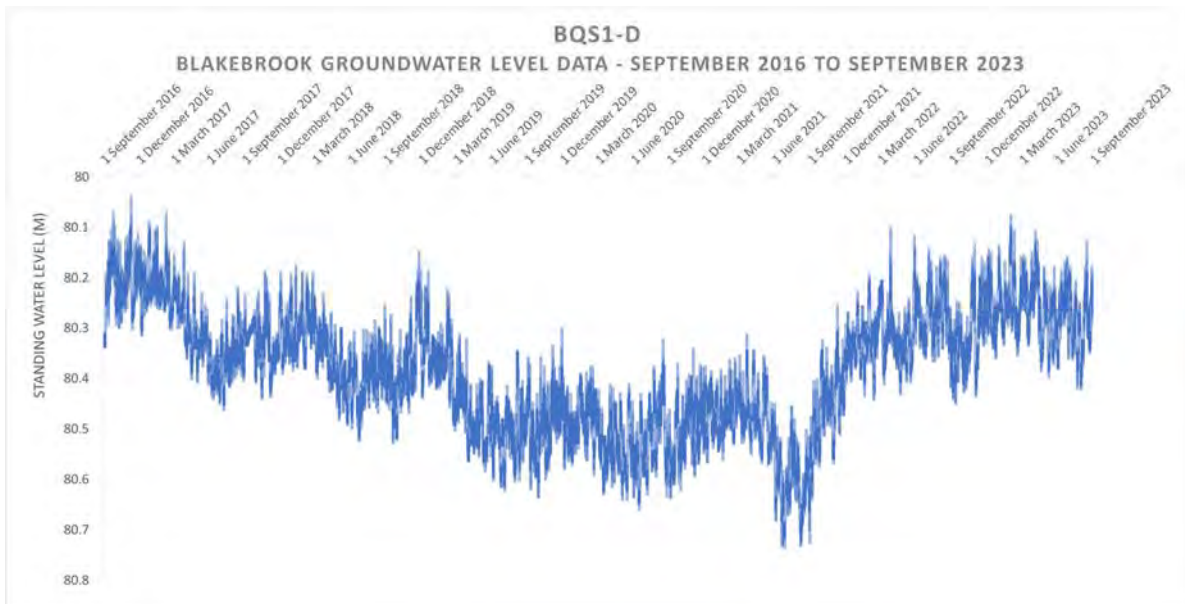
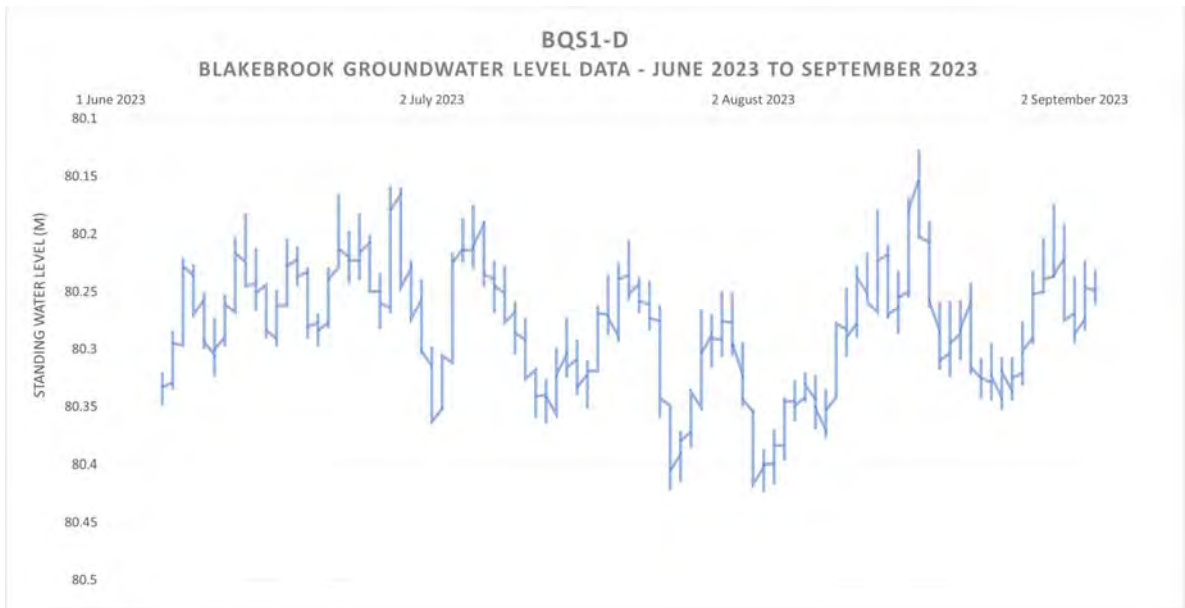
Blakebrook Groundwater Wells – SOUTH 1 BQS1- S (Shallow)



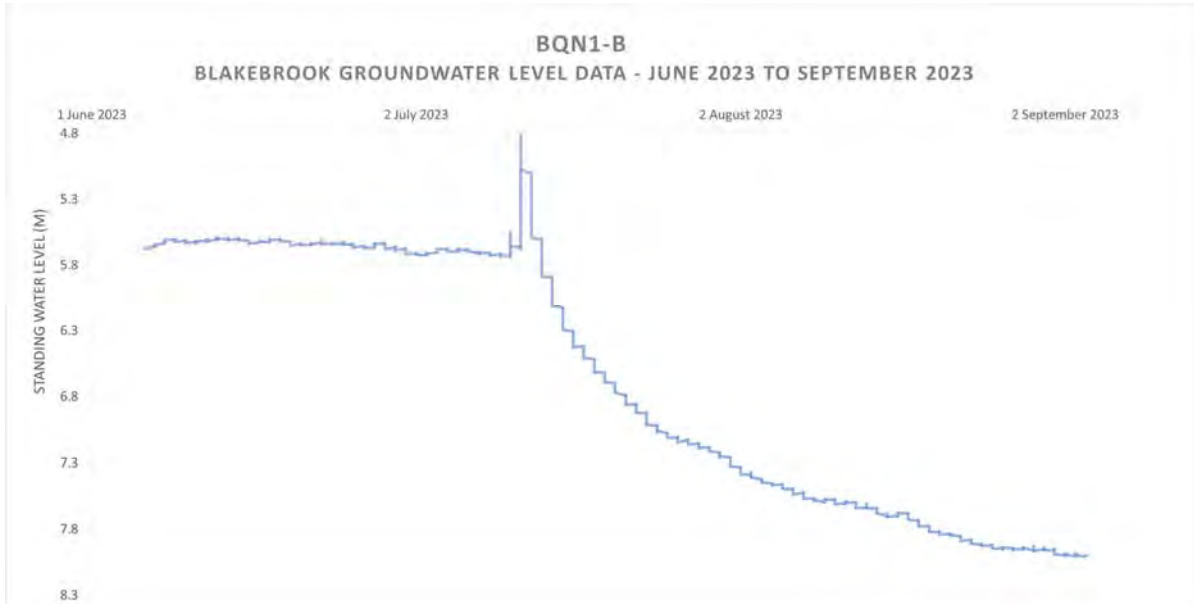
Blakebrook Groundwater Wells – SOUTH 1 BSQS1- I (Intermediate)



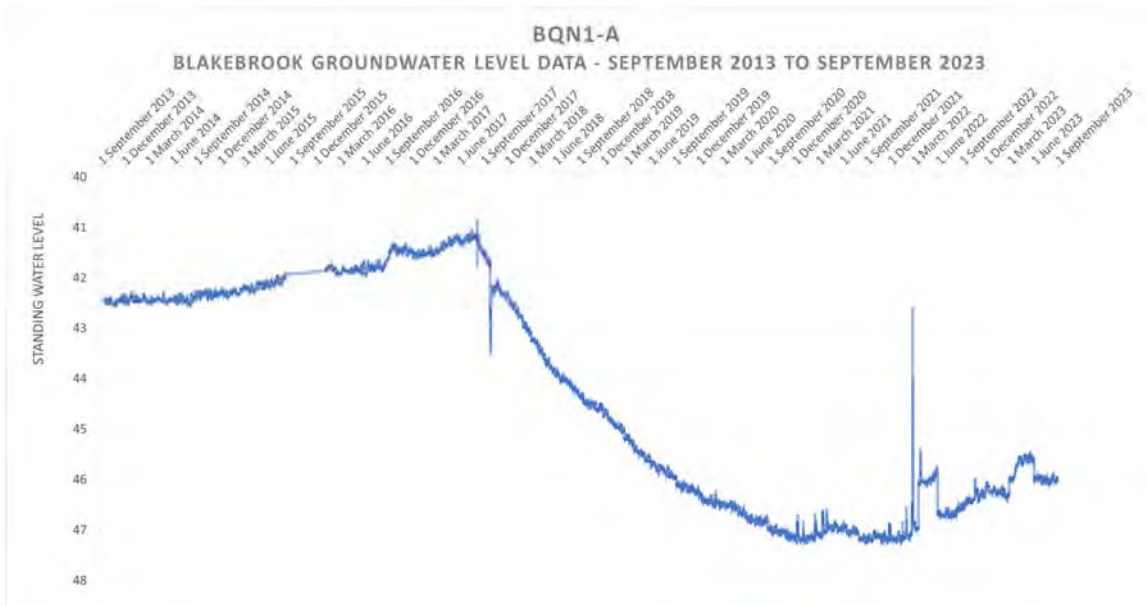
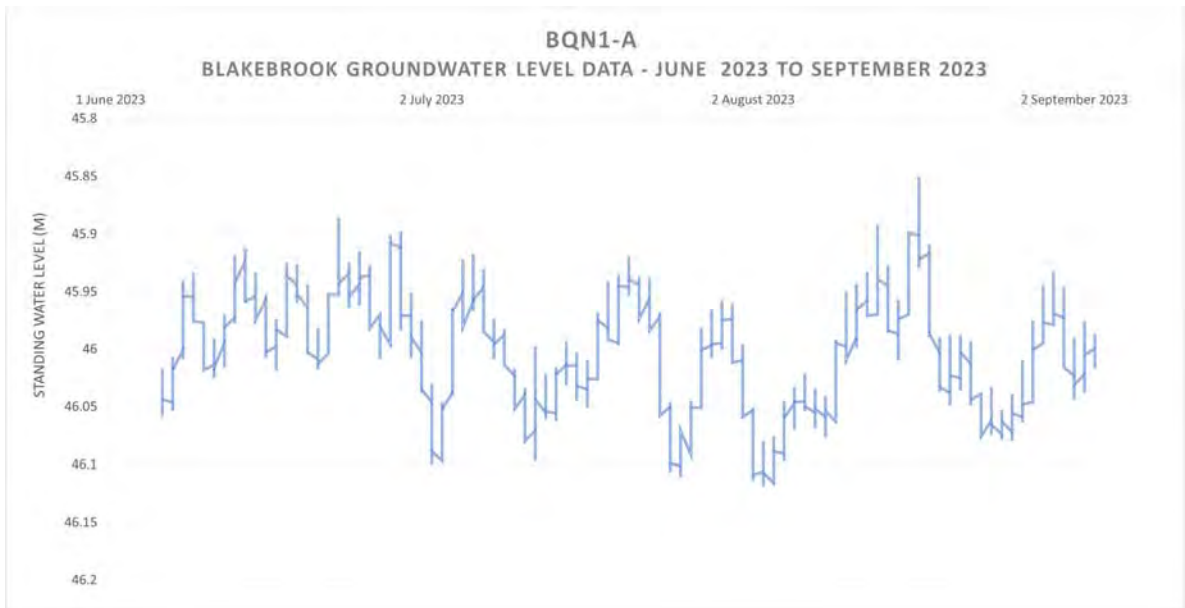
Blakebrook Groundwater Wells -SOUTH 1 BQS1- D (Deep)



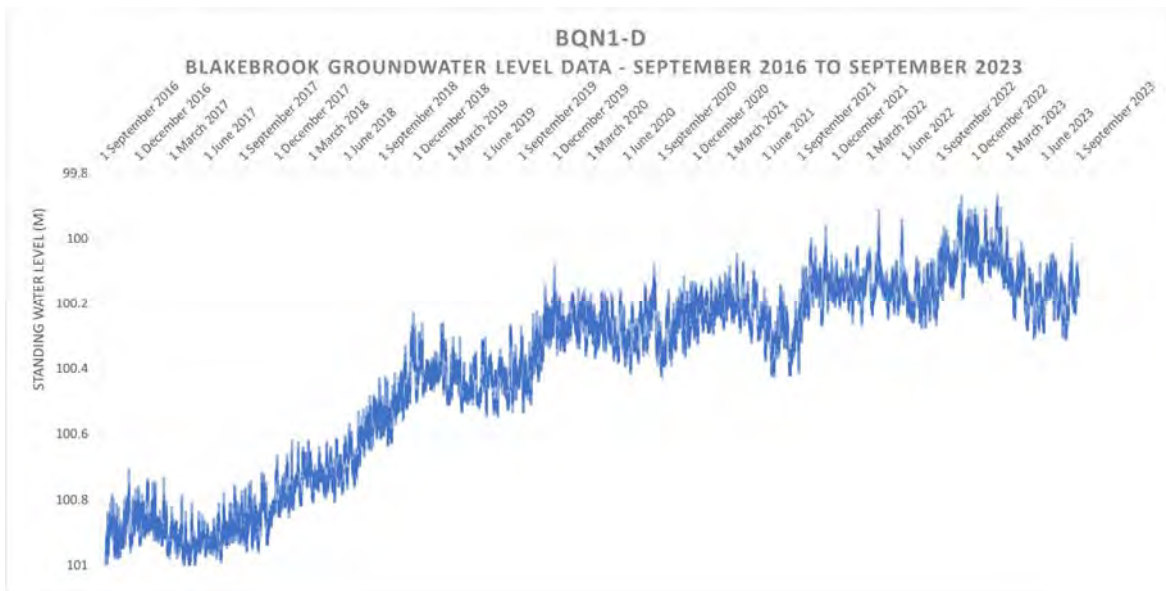
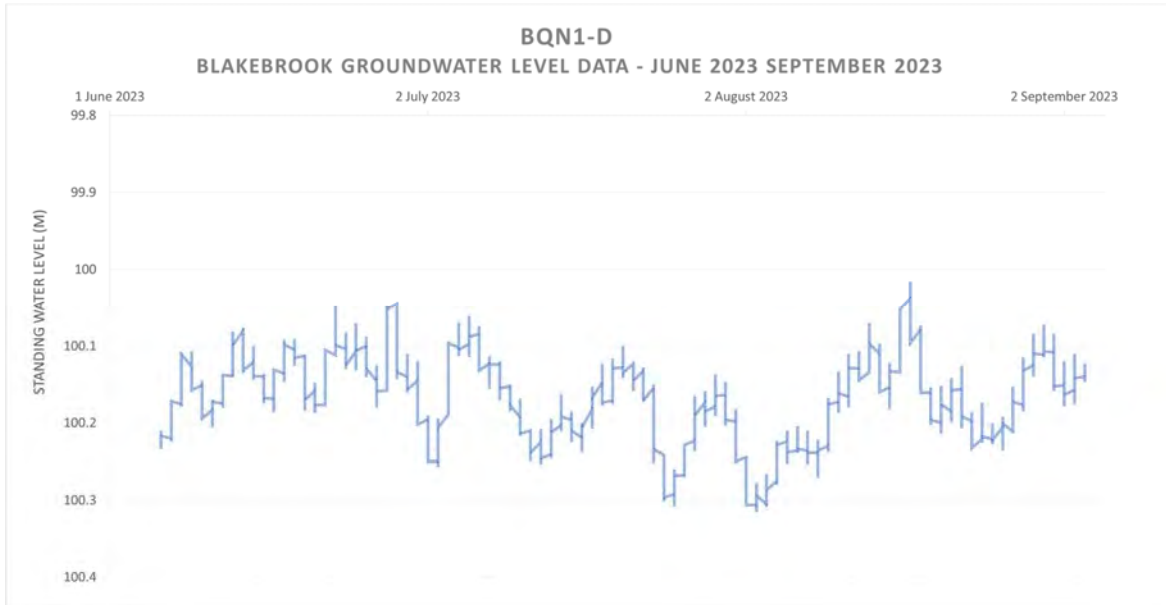
Blakebrook Groundwater Wells -NORTH 1 BQN1- B (Shallow)



Blakebrook Groundwater Wells -NORTH 1 BQN1- A (Intermediate)



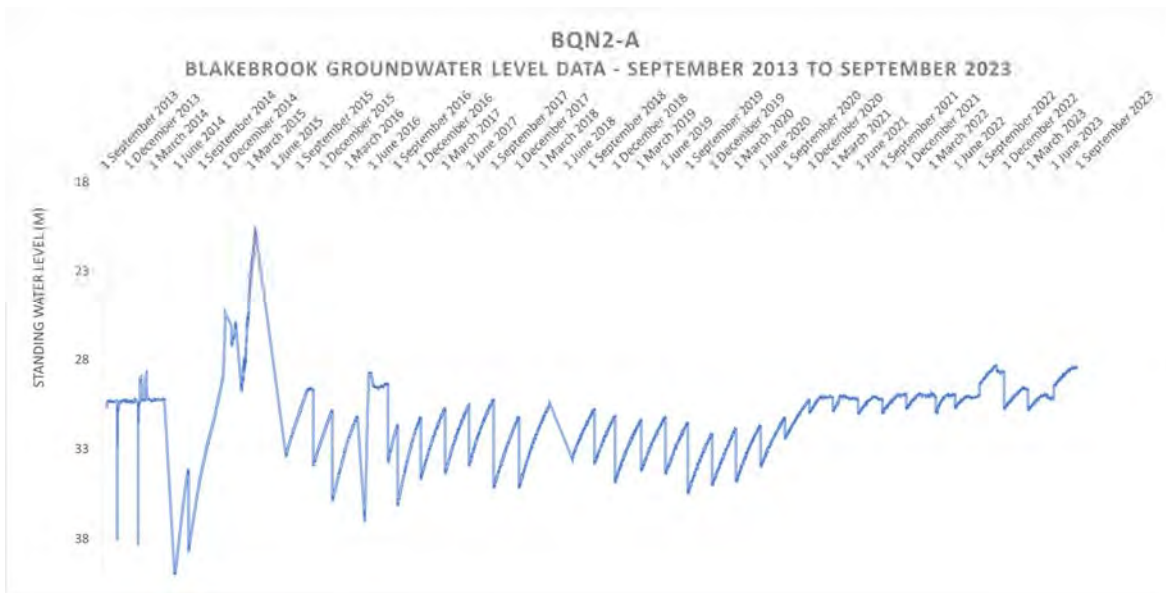
Blakebrook Groundwater Wells -NORTH 1 BQN1- D (Deep)



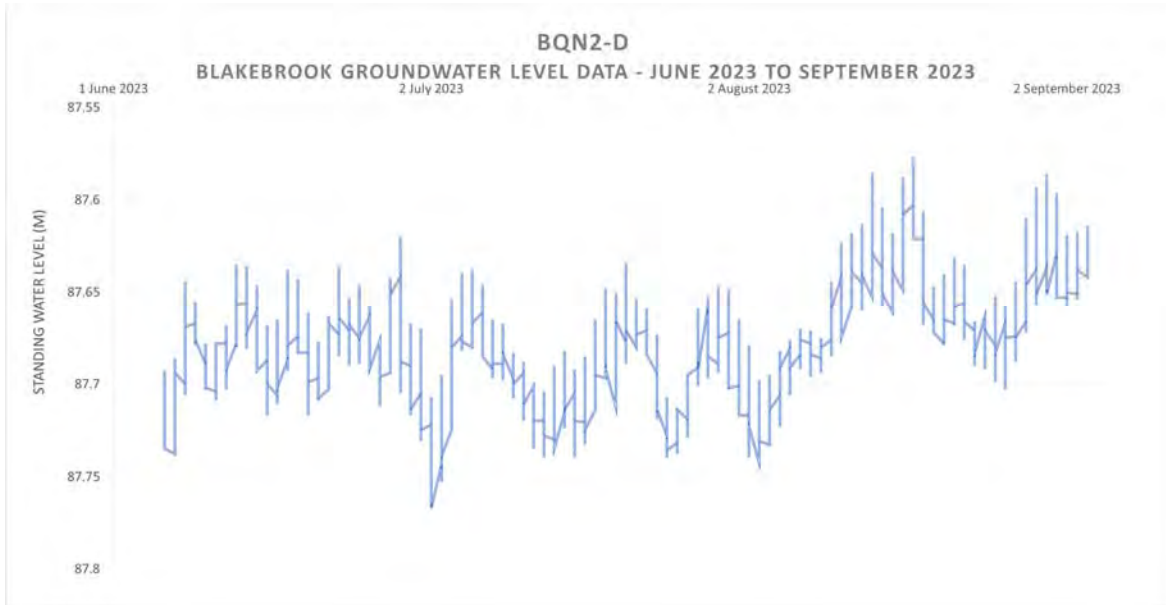
Blakebrook Groundwater Wells -NORTH 2 BQN2- B (Shallow)



Blakebrook Groundwater Wells -NORTH 2 BQN2- A (Intermediate)



Blakebrook Groundwater Wells -NORTH 2 BQN2- D (Deep)



Tuesday 19th December 2023 R1

Environmental Engineer &
Director

To: [REDACTED]
Compliance Officer, Lismore City Council
Blakebrook Quarry Water Quality
Sampling

lise@ecoteam.com.au
mob: 0428-215-124
office: (02) 66-215-123
fax: (02) 66-218-123
ABN: 82 106 758 123

Re: Groundwater Quality Monitoring Results & Report for Blakebrook Quarry
Reporting period: 1st September 2023 to 1st December 2023

1.0 INTRODUCTION

Ecoteam is engaged to undertake quarterly groundwater quality and water level monitoring on behalf of Lismore City Council for the Blakebrook Quarry, Blakebrook, NSW. This report presents results from the December 2023 sampling round.

2.0 PROJECT AIMS AND SAMPLING OBJECTIVES

The aim of the groundwater monitoring is to monitor groundwater quality and water levels at the Blakebrook Quarry site as per Northern Rivers Quarry - Blakebrook Quarry Monitoring Procedure (Groundwater) -Work Method Statement 2. The project objectives are to detect any potential changes in water quality or water levels within groundwater wells which may be a result of the Blakebrook Quarry activities, to calibrate the level meters, and assess the functioning of water level meters at the site.

3.0 SAMPLING LOCATIONS

Water samples and level data were collected from all 9 groundwater bores. Sample codes and corresponding sampling locations are shown in Table 1 and Figure 1.

Table 1. Quarterly groundwater sampling sites, sample codes and well information

Bore ID	RN (NOW)	Easting	Northing	Completion date	TD (mBGL)	Water strike (mBGL)	Casing Depth (mBGL)	Screened (mBGL)	SWL (mBGL)
Northern Two Clusters of Monitoring Bores (re. BQN1A, BQN1B, BQN2A, BQN2B, NOW & Cook p4 (2016))									
BQN1-B (BQN1-S)	GW307 323	524993.7	6818662.9	25/7/13	30	15 - 19	30	12 - 21	4.5
BQN1-A (BQN1-I)	GW307 322	524757.0	6818728.0	26/7/13	60	52 - 60	48	48 - 60	42.5
BQN1-D		524994	6818654.5	29/8/16	115	56 - 63; 99 - 109	115	97 - 109	?
BQN2-B (BQN2-S)	GW307 325	524437.7	6818619	28/7/13	42	28 - 38	42	30 - 42	28.5
BQN2-A (BQN2-S)	GW307 324	524436.7	6818615.5	27/7/13	60	52 - 60	60	51 - 60	31.3
BQN2-D		524447.5	6818616.5	29/8/16	133	19 - 24; 44 - 46.5; 112 - 117	133	109 - 121	
Southern Cluster of Monitoring Bores (re. Form A - particulars of completed work, 25/08/16 & GS letter 27/07/17)									
Bore ID	RN (NOW)	Easting	Northing	Completion date	TD (mBGL)	Water strike (mBGL)	Casing Depth (mBGL)	Screened (mBGL)	SWL (mBGL)
BQS1-S		524684.5	6817848.6	25/8/16	55	38 - 43	55	40 - 52	30
BQS1-I		524681.5	6817842.8	24/8/16	73	34 - 39; 64 - 70	73	58 - 70	30
BQS1-D		524678	6817837.2	23/8/16	102.7	34 - 39; 64 - 72; 95 - 99	102.7	87.7 - 99.7	30



Figure 1. Map of monthly groundwater sampling sites (Source: Lismore City Council).

4.0 SAMPLING METHODOLOGY

Sampling was undertaken by [REDACTED] and [REDACTED] on Monday 4th December 2023. In situ, physico-chemical measurements were collected using an Aquatroll Water Quality Meter and level information was downloaded using the Vu-Situ APP and Wireless TROLL Com instrument and cable connector. Samples collection methods and in-situ results are presented in **Appendix A (Table 2)**. A comparison of results to Trigger Values are presented in **Table 3**. The calibration certificate for the water quality meter is included as **Appendix B**.

Samples were stored on ice and dropped off at the Environmental Analysis Laboratory (EAL) in Lismore.

Samples were not field filtered. A full list of analytes for the project are included in Appendix C.

5.0 RESULTS

5.1 Physico-chemical Results

In situ, physico-chemical sampling results are shown in **Appendix A (Table 2)**. A comparison of results to Trigger Values are presented in **Table 3**.

- pH was inside the Trigger Values range at all sites.
- Electrical Conductivity (EC) was outside of the 20% Trigger Value range at all sites.

5.2 Laboratory Results

The chain of custody form is included in **Appendix D**. A full copy of the laboratory results is included as **Appendix E**. A comparison of results to Trigger Values are presented in **Table 3**.

- Total oils and grease were above the Trigger Values at BQN1B, BQN1D, BQN2B and BQN2D.
- Total iron was below the Trigger Values at all sites.
- Total lead was above the Trigger Values at BQS1S.
- TRH was not detected at any site.

- BTEX was not detected at any site.

5.3 Well Level Results

Well level results for the past three months and the last seven years are presented in **Appendix F**.

- Groundwater levels have risen in the South shallow and deep wells, North 1 deep well and all North shallow and intermediate wells (BQS1-S, BQS1-D, BQN1-D, BQN2-B and BQN2-A).
- Groundwater levels have fallen in the South intermediate well and North 1 shallow and intermediate wells (BQS1-I, BQN1-B and BQN1-A).
- Groundwater levels have remained the same in the North 1 deep well (BQN2-D).
- Battery levels in all water level meters remain above 50%.
- All level meters appear to be functioning adequately.
- All level meters have been upgraded and calibrated.

6.0 COMMENTS AND RECOMMENDATIONS

EC was outside of the Trigger Values at all sites. Total lead was above the Trigger value at one site. EC and metals can be variable due to climate conditions such as rainfall. It is unlikely that changes are a result of impacts from the quarry site. No further investigation is warranted.

Kind regards,


Environmental Engineer & Director


Mob: 0428-215-124
office: (02) 66-215-123
fax: (02) 66-218-123
ABN: 82 106 758 123

APPENDIX A- Physicochemical and sample Information

Table 2. Results of physico-chemical parameters collected in situ at quarterly sampling.

Sample Information	Blakebrook Quarry Groundwater Well Sampling Information								
	SOUTH			NORTH 1			NORTH 2		
Site Name	BQS1S	BQS1I	BQS1D	BQN1B	BQN1A	BQN1D	BQN2B	BQN2A	BQN2D
Well Type	Shallow	Intermediate	Deep	Shallow	Intermediate	Deep	Shallow	Intermediate	Deep
Date	04/12/23	04/12/23	04/12/23	04/12/23	04/12/23	04/12/23	04/12/23	04/12/23	04/12/23
Time	10:30	10:30	11:05	11:40	11:50	12:15	9:15	9:54	9:15
Recorded Depth 1	30.64	48.42	80.10	8.22	46.07	100.06	29.09	29.88	87.50
Recorded Depth 2	30.99	49.00	80.00	8.02	46.01	100.06	29.45	30.90	87.55
Level Meter Calibrated	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Battery Level	51%	51%	51%	52%	51%	51%	52%	52%	52%
Memory Level	78%	78%	78%	78%	81%	81%	84%	84%	84%
Sample Method	Bottom filling Bailer from screen zone	Bottom filling Bailer from screen zone	Hydro sleeve Bailer from screen zone	12-volt submersible pump	Bottom filling Bailer from screen zone	Hydro sleeve Bailer from screen zone	Bottom filling Bailer from screen zone	Bottom filling Bailer from screen zone	Hydro sleeve Bailer from screen zone
Odour	Not Present	Not Present	Present-Sulfur	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present
Site/Water Observations	Clear	Clear	Clear, large particles	Clear	Clear	Clear	Clear	Clear	Clear, some particles
Fresh Water WQOs	Water Quality Observations								
pH	6.57	7.65	8.07	6.96	11.10	8.19	9.50	7.59	8.90
EC dS/m	0.25	1.05	1.37	0.82	1.58	1.04	0.79	0.44	0.73
DO (%)	57.14	54.54	36.68	8.79	81.29	52.40	47.61	66.82	98.54
Temperature (°C)	24.07	23.51	24.67	20.59	24.26	23.03	24.66	23.71	23.94
ORP	107.88	65.79	-49.41	-31.40	21.46	39.04	51.74	45.24	57.8

Table 3. Results quarterly sampling compared to Trigger Values.

Sample Information	Blakebrook Quarry Groundwater Well Sampling								
	SOUTH			NORTH 1			NORTH 2		
Site Name	BQS1S	BQS1I	BQS1D	BQN1B	BQN1A	BQN1D	BQN2B	BQN2A	BQN2D
Well Type	Shallow	Intermediate	Deep	Shallow	Intermediate	Deep	Shallow	Intermediate	Deep
Sample date	04/12/23	04/09/23	04/09/23	04/09/23	04/09/23	04/09/23	04/09/23	04/09/23	04/09/23
Trigger Value comparison	Trigger Value comparison								
pH Trigger Value	7.12	8.12	8.30	7.18	11.34	9.10	11.07	8.67	8.85
pH (Sample Date-4/12/2023)	6.57	7.65	8.07	7.0	11.1	8.19	9.5	7.59	8.9
Outside of 20% range	No	No	No	No	No	No	No	No	No
EC (dS/m) Trigger Value	0.512	1.624	1.829	1.171	2.082	1.44	1.138	1.2	1.014
EC (dS/m) (Sample Date-4/12/2023)	0.25	1.05	1.37	0.82	1.58	1.04	0.79	0.44	0.73
Outside of 20% range	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Total oils and grease (mg/L) Trigger Value	10.8	21	14.2	4.1	9	4.4	3.6	6.9	4
TOG (mg/L) (Sample Date-4/12/2023)	4.00	6.43	5.57	7.86	8.14	7.71	5.14	5.14	7.00
Above Trigger Value	No	No	No	Yes	No	Yes	Yes	No	Yes
Iron- Total (mg/L) Trigger Value	1.829	4.977	6.58	2.162	1.972	97.645	0.579	0.301	3.904
Iron (mg/L) (Sample Date-4/12/2023)	0.443	0.057	0.043	1.82	0.221	0.625	0.232	0.078	0.088
Above Trigger Value	No	No	No	No	No	No	No	No	No
Lead- Total (mg/L) Trigger Value	0.001	0.005	0.009	0.001	0.018	0.008	0.004	0.002	0.005
Lead (Sample Date-4/12/2023)	0.002	<0.001	<0.001	<0.001	0.002	<0.001	0.001	0.002	0.003
Above Trigger Value	Yes	No	No	No	No	No	No	No	No
TRH -Total (mg/L) (Sample Date-4/12/2023)									
Present or absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
BTEX (Sample Date-4/12/2023)									
Present or absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent

Notes: Results above/outside of Trigger Values have been highlighted

Appendix B - Calibration certificate for Water Quality Meter

Calibration Report

Instrument Aqua TROLL 500
Serial Number 757823
Created 21/11/2022

Sensor **Turbidity**
Serial Number 754060
Last Calibrated Factory Defaults

Sensor **RDO**
Serial Number 754373
Last Calibrated 10/07/2022

Calibration Details

Slope 1
Offset -0.10 mg/L

Pre Measurement

RDO Concentration 8.74 mg/L

Post Measurement

RDO Concentration 8.75 mg/L

Sensor **pH/ORP**
Serial Number 742301
Last Calibrated 21/11/2022

Calibration Details

Calibration Point 1

pH of Buffer 4.01 pH
pH mV 96.0 mV
Temperature 29.11 °C

Pre Measurement

pH 4.22 pH
pH mV 96.0 mV

Post Measurement

pH 4.01 pH
pH mV 97.4 mV

Calibration Point 2

pH of Buffer 6.99 pH
pH mV -71.3 mV
Temperature 30.21 °C

Pre Measurement

pH 7.11 pH
pH mV -71.6 mV

Post Measurement

pH 6.99 pH
pH mV -72.6 mV

Slope and Offset 1

Slope -56.17 mV/pH
Offset -71.9 mV

ORP

ORP Solution Zobell's
Offset 55.0 mV
Temperature 30.27 °C
Pre Measurement 167.7 mV
Post Measurement 222.2 mV

Sensor **Conductivity**
Serial Number 756927
Last Calibrated 10/07/2022

Calibration Details

TDS Conversion Factor (ppm) 0.65
Cell Constant 0.873
Reference Temperature 20.00 °C

Appendix C - Full List of Sampling Analytes

Field

- pH
- Electrical Conductivity (EC)
- Dissolved Oxygen (DO)
- Temperature
- Oxidation Reduction Potential

Laboratory

- Total Petroleum Hydrocarbons (TPH,) C10-C40
- Benzene, Toluene, Ethylbenzene Xylene (BTEX)
- Total iron
- Total lead
- Dissolved iron
- Dissolved lead
- Total oils and grease -Hexane Extractable
- Major ions (Sulfate, Chloride)
- Major cations (Calcium, Magnesium, sodium, potassium)

Appendix D - Chain of Custody Form

<div style="display: flex; align-items: center;"> <div style="font-size: 4em; font-weight: bold; margin-right: 10px;">eal</div> <div> Environmental Analysis Laboratory <small>Southern Cross University</small> </div> </div> <p>PO Box 157 (Military Road) LISMORE NSW 2480 P| 02 6620 3678 F| 02 6620 3957 eal@scu.edu.au www.scu.edu.au/eal</p>	CHAIN OF CUSTODY	
	Submitting Client Details Quote Id: EALQ5821 Job Ref: SMC010-Blakabrook WQ- Groundwater- DEC23 Company Name: Ecoteam Contact Person: XXXXXXXXXX Phone: 66215123 Mobile: 0428215124 Fax: XXXXXXXXXX Email: XXXXXXXXXX Postal Address: 13 Ewing Street, Lismore	Billing Client Details ABN: XXXXXXXXXX Company Name: Ecoteam Contact Person: XXXXXXXXXX Phone: 02 66215123 Mobile: 0428215124 Fax: XXXXXXXXXX Email: XXXXXXXXXX Postal Address: 13 Ewing Street, Lismore

This section will be destroyed after being processed. Only Complete CVV number if you are supplying the original hardcopy to EAL.

Date Signed

Payment Method:

- ☐ Purchase Order
☐ Cheque
☐ Invoice (prior approval required)
☐ Credit Card Mastercard / Visa No: _____ / _____ / _____

Exp. Date: _____ Name on Card: _____ CVV: _____

Relinquished By: _____	Date: _____	Signed: _____
Preservation: None / <u>(Ice)</u> Ice bricks / Acidified / Filtered / Other: _____		
Received By: <u>AM</u>	<u>4/12</u>	<u>3:37pm</u>
Condition on receipt: Ambient / <u>(Cool)</u> Frozen / Other: _____		

Comments:

DO NOT TEST FOR Ph or EC

Perform a silica gel clean-up for sample which have TRH above the LOR

Marketing Survey – where did you find us?

- ☐ Word of mouth ☐ Magazine ☐ Google search ☐ Other

Sample Analysis Request

Price List Code (e.g. SW-PACK-06)

Lab Sample No.	Sample ID	Sample Depth	Sampling Date	Your Client	Crop ID	Sample Type (e.g. water, leaf, soil)	Salt Suite- (no pH or EC) SW-PACK-014	TPH and BTEX SW-PACK-042	TOG SW-SING-041	Dissolved Iron SW-SING-103	Dissolved Lead SW-SING-103	Total Available Iron SW-SING-104	Total Available Lead SW-SING-104	Silica Gel Clean up for TRH		
1	BQN1-B	18.3°C	04/12/23			Water	X	X	X	X	X	X	X	Hold		
2	BQN1-A	18.4°C	04/12/23			Water	X	X	X	X	X	X	X	Hold		
3	BQN1-D	20.9°C	04/12/23			Water	X	X	X	X	X	X	X	Hold		
4	BQN2-B	15.8°C	04/12/23			Water	X	X	X	X	X	X	X	Hold		
5	BQN2-A	15.8°C	04/12/23			Water	X	X	X	X	X	X	X	Hold		
6	BQN2-D	19.2°C	04/12/23			Water	X	X	X	X	X	X	X	Hold		

EAL Chain of Custody
Issue: V1.1 27/09/2016

EAL Project Reference:

P8331 x 9 WATER.

QFORM 4.2
Page 1 of 2

CHAIN OF CUSTODY

Comments:

DO NOT TEST FOR Ph or EC

Perform a silica gel clean-up for sample which have TRH above the LOR

Marketing Survey – where did you find us?

☐ Word of mouth ☐ Magazine ☐ Google search ☐ Other

Sample Analysis Request

Price List Code (e.g. SW-PACK-06)

[illegible]

Tab through for extra lines

Appendix E - Full Laboratory Results

RESULTS OF WATER ANALYSIS

9 samples supplied by Ecolam on 4/12/2023. Lab Job No. P6331.

Samples submitted by [REDACTED] Your Job: SMC010- Blakebrook WQ - Ground Water - DEC23

13 Ewing Street LISMORE NSW 2480

Parameter	Methods reference	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Sample 7	Sample 8	Sample 9
		BQN1-B	BQN1-A	BQN1-D	BQN2-B	BQN2-A	BQN2-D	BQS1-S	BQS1-I	BQS1-D
	Job No.	P6331/1	P6331/2	P6331/3	P6331/4	P6331/6	P6331/6	P6331/7	P6331/8	P6331/9
pH	APHA 4500-H ⁺ -8	7.21	11.3	8.54	9.74	7.72	8.78	6.66	8.10	8.06
Conductivity (EC) (µS/cm)	APHA 2510-B	1.02	1.85	1.28	0.976	0.553	0.888	0.300	1.24	1.71
Total Dissolved Solids (mg/L)	** Calculation using EC x 650	668	1,255	869	664	376	604	204	843	1,162
Total Alkalinity (mg/L CaCO ₃ equivalent)	** Total Alkalinity - APHA 2320	237	188	125	104	181	349	126	195	123
Water Hardness (mg/L CaCO ₃ equivalent)	** Using Ca and Mg calculation	148	181	25	87	119	10	70	83	39
Total Oils and Grease (mg/L)	APHA 5520-D (Residue extractable)	7.86	8.14	7.71	5.14	5.14	7.00	4.00	6.43	5.57
Sodium (mg/L)	APHA 3125 ICPMS TM 142	166	282	253	172	76.3	206	37.2	241	324
Potassium (mg/L)	APHA 3125 ICPMS TM 142	3.65	8.58	2.15	5.68	4.59	1.91	2.99	4.53	3.48
Calcium (mg/L)	APHA 3125 ICPMS TM 142	29.0	67.3	8.66	21.2	33.1	3.41	17.9	25.7	12.9
Magnesium (mg/L)	APHA 3125 ICPMS TM 142	18.4	3.02	0.938	3.37	8.85	0.475	6.24	4.50	1.67
Sodium Absorption Ratio (SAR)	** By calculation	5.9	9.1	21.8	9.2	3.0	27.7	1.9	11.5	22.5
Chloride (mg/L)	APHA 3125 ICPMS TM 142	291	473	313	248	74.7	109	21.8	304	465
Sulfate (mg/L SO ₄ ²⁻)	APHA 3125 ICPMS TM 142	14	24	57	26	17	23	10	12	40
Chloride/Sulfate Ratio	** Calculation	21.3	19.3	5.5	9.5	4.3	4.7	2.2	25.9	11.7
Iron (mg/L)	Total Available - APHA 3125 ICPMS TM 142	1.82	0.221	0.625	0.232	0.078	0.088	0.443	0.057	0.043
Lead (mg/L)	Total Available - APHA 3125 ICPMS TM 142	<0.001	0.002	<0.001	0.001	0.002	0.003	0.002	<0.001	<0.001
Iron (mg/L)	Dissolved - APHA 3125 ICPMS TM 142	0.499	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.008	<0.005
Lead (mg/L)	Dissolved - APHA 3125 ICPMS TM 142	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
BTEX										
Benzene (µg/L)	Subcontracted: S/GS report SE 257682	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene (µg/L)	Subcontracted: S/GS report SE 257682	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene (µg/L)	Subcontracted: S/GS report SE 257682	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
m,p-xylene (µg/L)	Subcontracted: S/GS report SE 257682	<1	<1	<1	<1	<1	<1	<1	<1	<1
o-xylene (µg/L)	Subcontracted: S/GS report SE 257682	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Xylenes (µg/L)	Subcontracted: S/GS report SE 257682	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
Total BTEX (µg/L)	Subcontracted: S/GS report SE 257682	<3	<3	<3	<3	<3	<3	<3	<3	<3
Naphthalene (VOC) (µg/L)	Subcontracted: S/GS report SE 257682	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Recoverable Hydrocarbons (TRH)										
TRH C8-C9 (µg/L)	Subcontracted: S/GS report SE 257682	<40	<40	<40	<40	<40	<40	<40	<40	<40
Benzene (F9) (µg/L)	Subcontracted: S/GS report SE 257682	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TRH C8-C10 (µg/L)	Subcontracted: S/GS report SE 257682	<50	<50	<50	<50	<50	<50	<50	<50	<50
TRH C8-C10 minus BTEX (F1) (µg/L)	Subcontracted: S/GS report SE 257682	<50	<50	<50	<50	<50	<50	<50	<50	<50
LLTRH C10-C14 (µg/L)	Subcontracted: S/GS report SE 257682	<50	<50	<50	<50	<50	<50	<50	<50	<50
LLTRH C15-C28 (µg/L)	Subcontracted: S/GS report SE 257682	<100	<100	<100	<100	<100	<100	<100	<100	<100
LLTRH C29-C38 (µg/L)	Subcontracted: S/GS report SE 257682	<50	<50	<50	<50	<50	<50	<50	<50	<50
LLTRH >C10-C18 (µg/L)	Subcontracted: S/GS report SE 257682	<50	<50	<50	<50	<50	<50	<50	<50	<50
LLTRH >C14-C24 (F3) (µg/L)	Subcontracted: S/GS report SE 257682	<100	<100	<100	<100	<100	<100	<100	<100	<100
LLTRH >C34-C40 (F4) (µg/L)	Subcontracted: S/GS report SE 257682	<100	<100	<100	<100	<100	<100	<100	<100	<100
TRH Sum C10-C38 (µg/L)	Subcontracted: S/GS report SE 257682	<100	<100	<100	<100	<100	<100	<100	<100	<100
LLTRH C37-C40 (µg/L)	Subcontracted: S/GS report SE 257682	<100	<100	<100	<100	<100	<100	<100	<100	<100

Notes:

1. Total metals - samples digested with nitric acid, Total available (acid soluble/ extractable) metals - samples acidified with nitric acid to pH <2;
Dissolved metals - samples filtered through 0.45µm cellulose acetate and then acidified with nitric acid prior to analysis
2. Metals and salts analysed by Inductively Coupled Plasma - Mass Spectrometry (ICP-MS).
3. 1 mg/L (milligram per litre) = 1 ppm (part per million) = 1000 µg/L (micrograms per litre) = 1000 ppb (part per billion).
4. For conductivity 1 dS/m = 1 mS/cm = 1000 µS/cm.
5. Analysis performed according to APHA (2017) 'Standard Methods for the Examination of Water & Wastewater', 23rd Edition, except where stated otherwise.
6. Analysis conducted between sample arrival date and reporting date.
7. ** NATA accreditation does not cover the performance of this service.
8. ... Denotes not requested.
9. This report is not to be reproduced except in full.
10. All services undertaken by EAL are covered by the EAL Laboratory Services Terms and Conditions (refer sou.edu.au/eal or on request).
11. Results relate only to the samples tested.
12. This report was issued on 15/12/2023.



Appendix F - Hydrographs



Blakebrook Quarry- Groundwater Monitoring

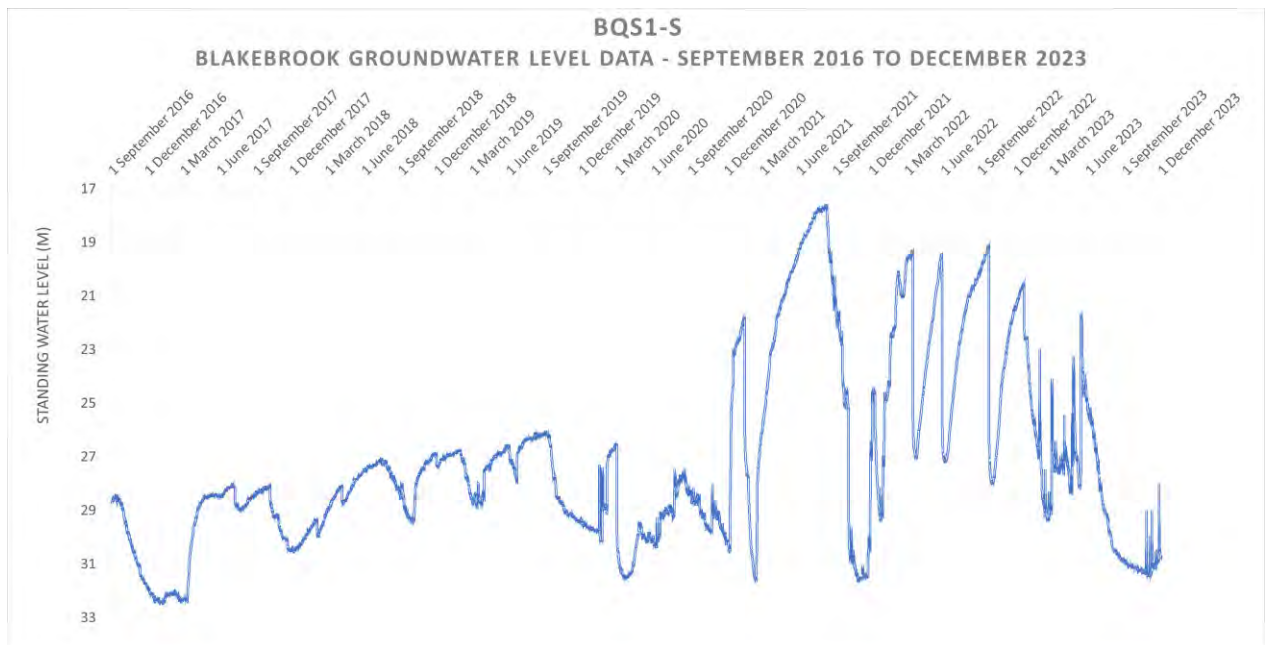
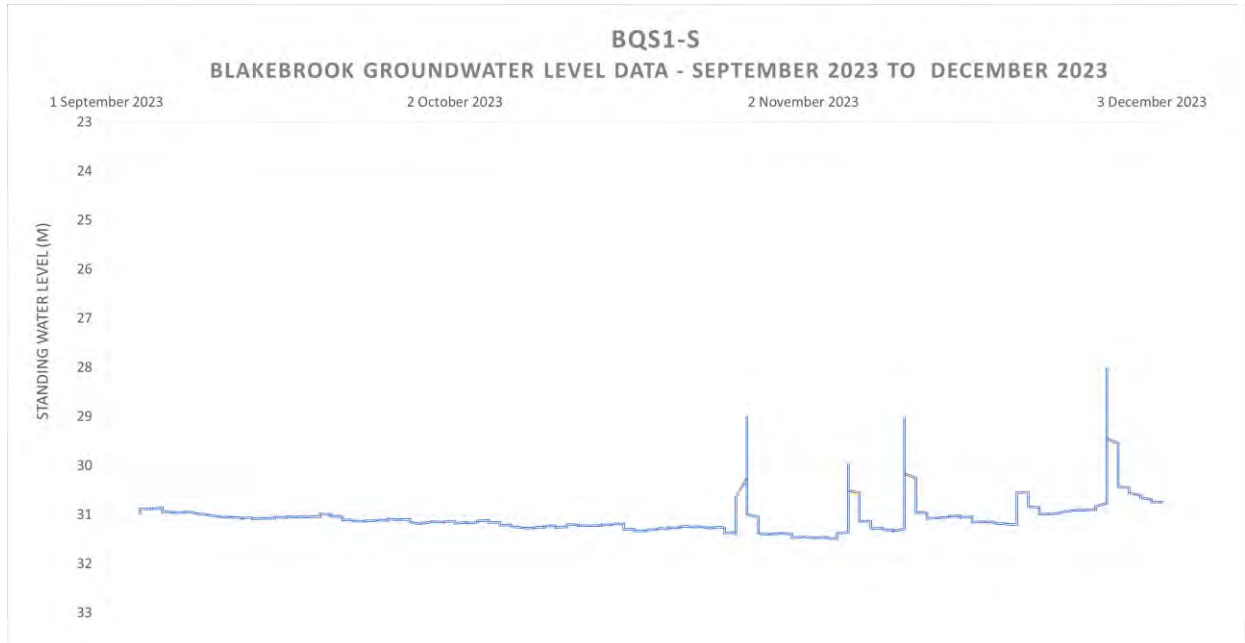
Groundwater Hydrographs

December 2023

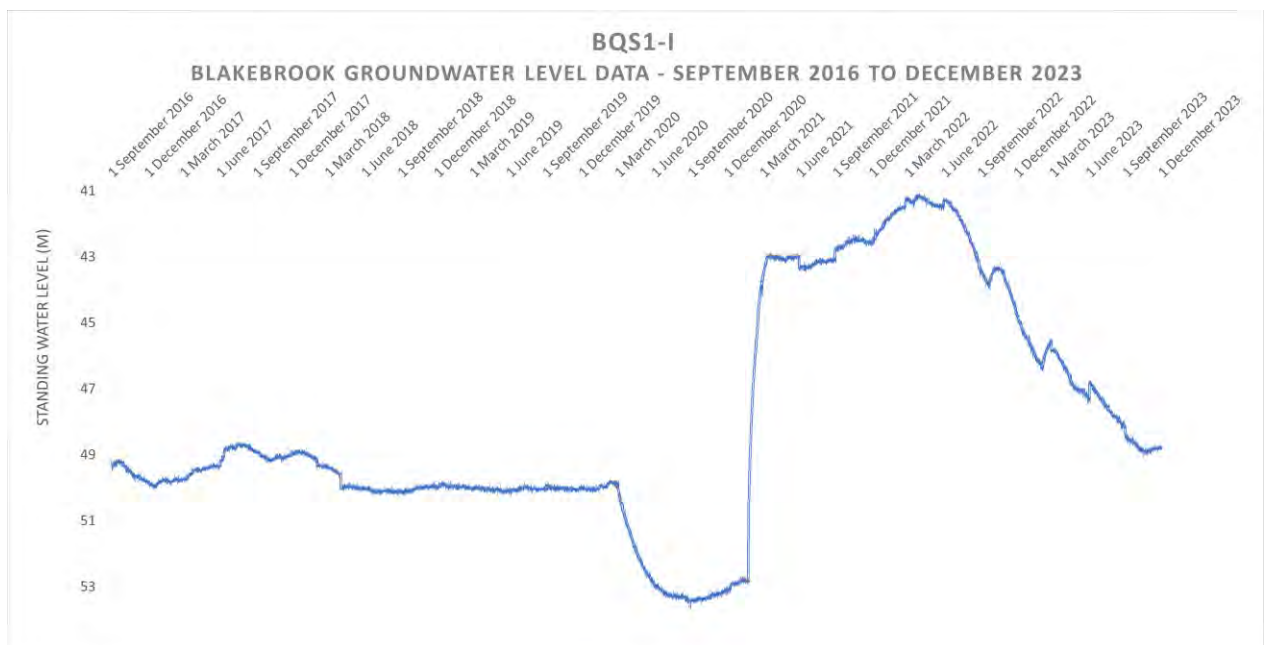


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info@ecoteam.com.au Web:
www.ecoteam.com.au

Blakebrook Groundwater Wells – SOUTH 1 BQS1- S (Shallow)

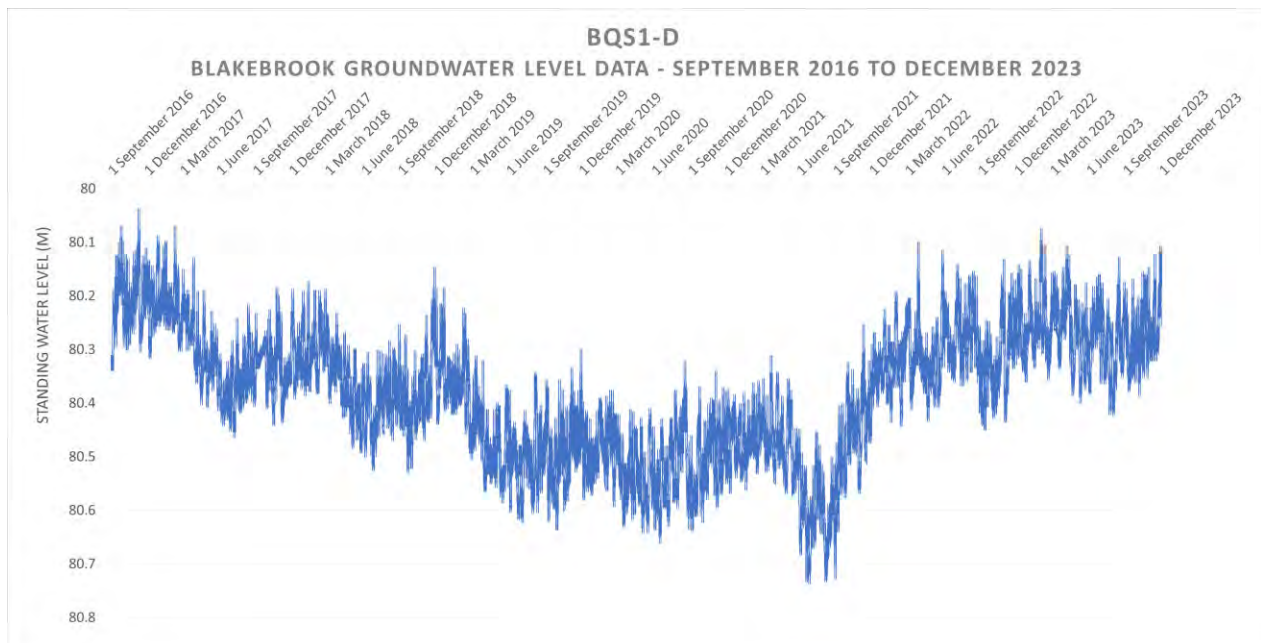
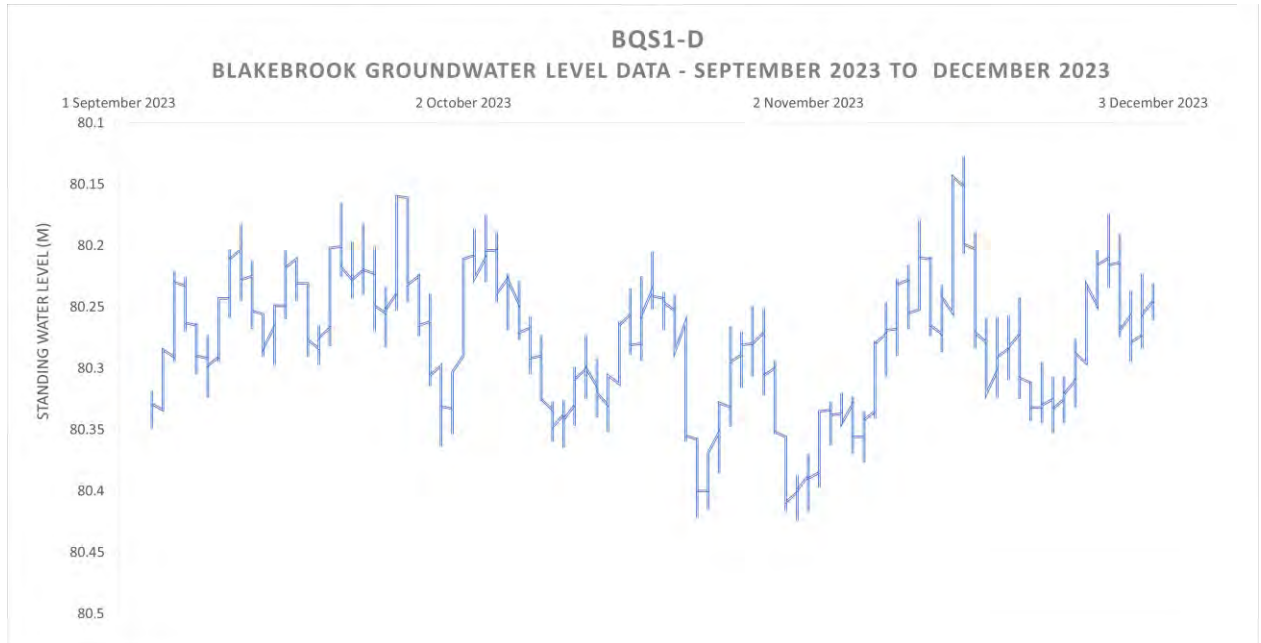


Blakebrook Groundwater Wells – SOUTH 1 BSQS1- I (Intermediate)



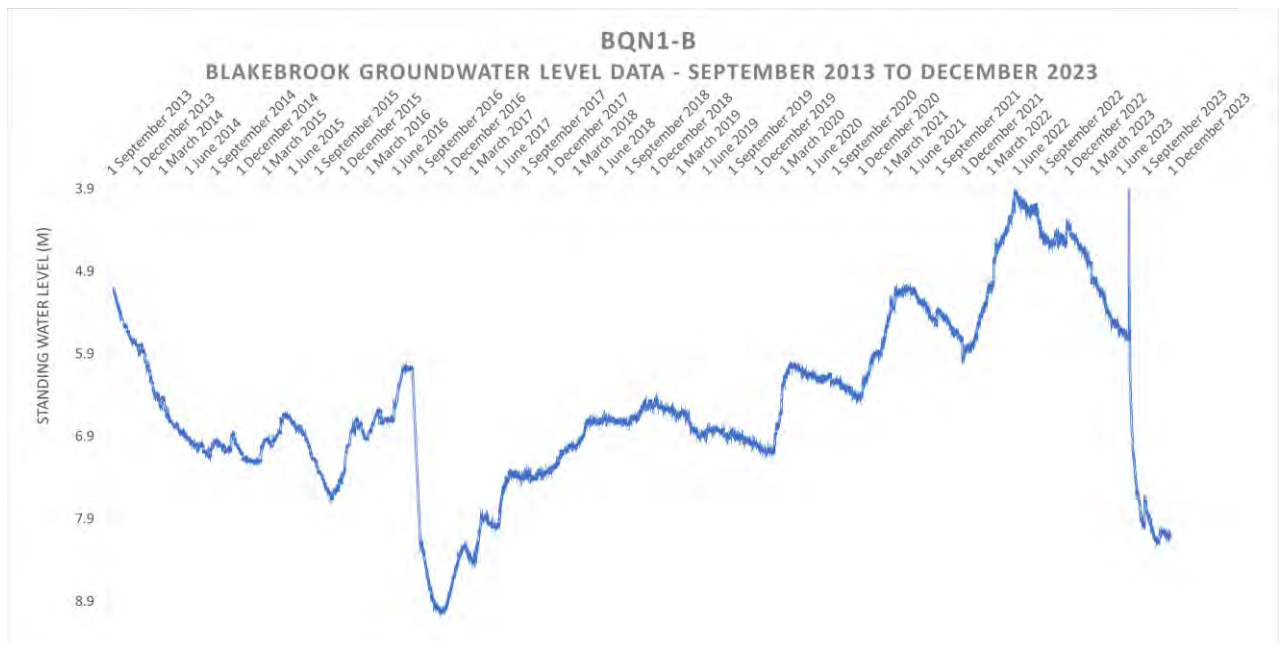
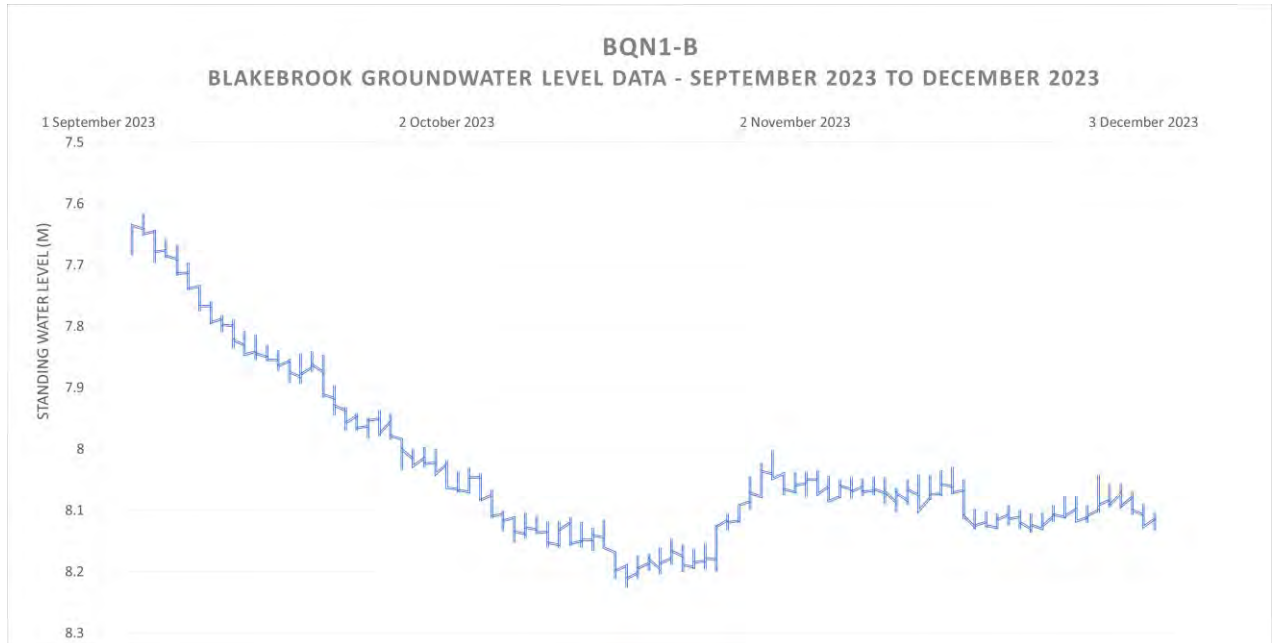
Blakebrook Groundwater Wells -SOUTH 1

BQS1- D (Deep)



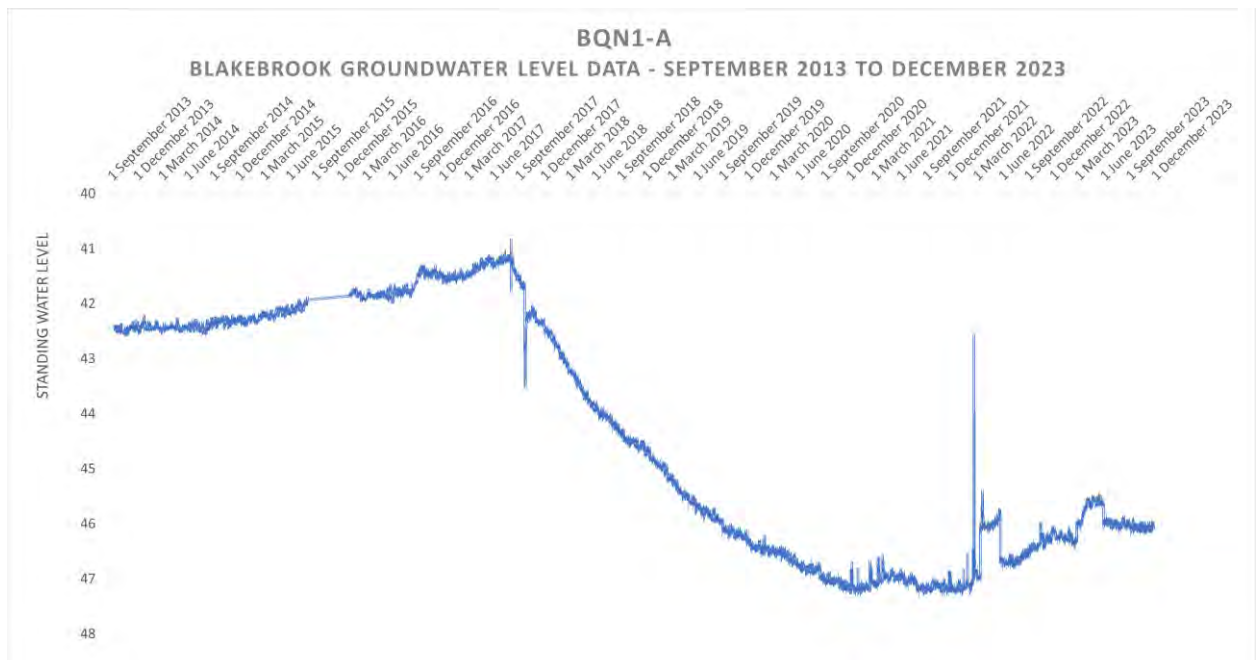
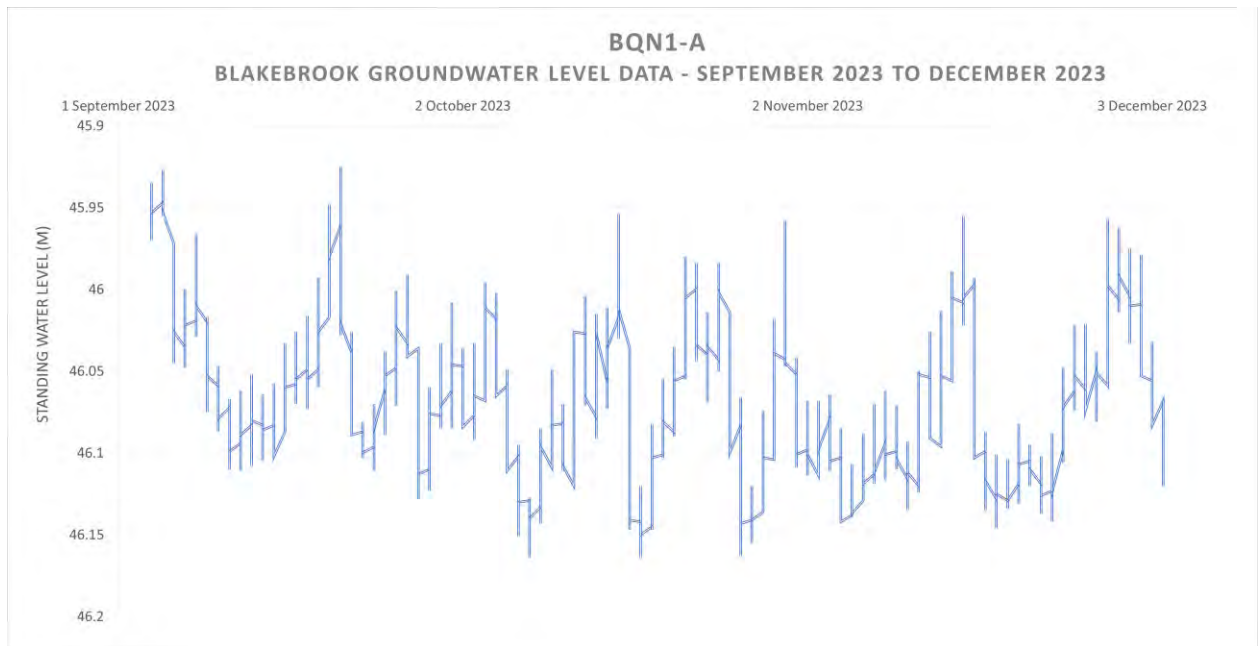
Blakebrook Groundwater Wells -NORTH 1

BQN1- B (Shallow)



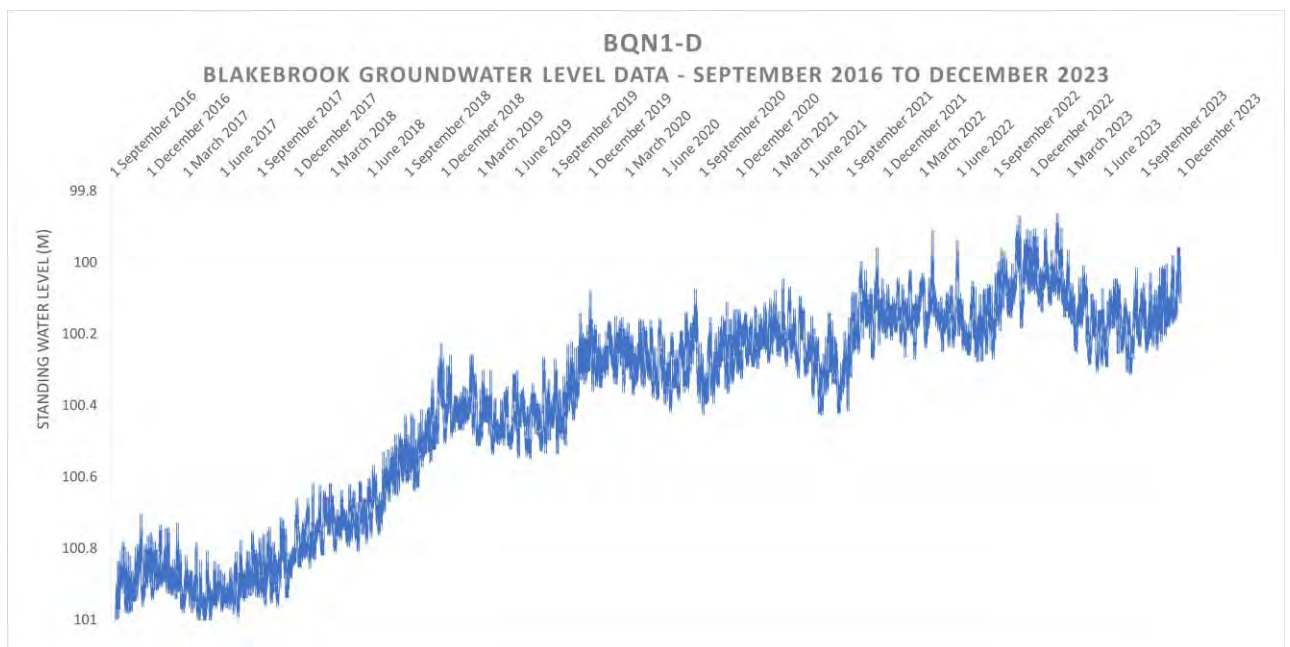
Blakebrook Groundwater Wells -NORTH 1

BQN1- A (Intermediate)

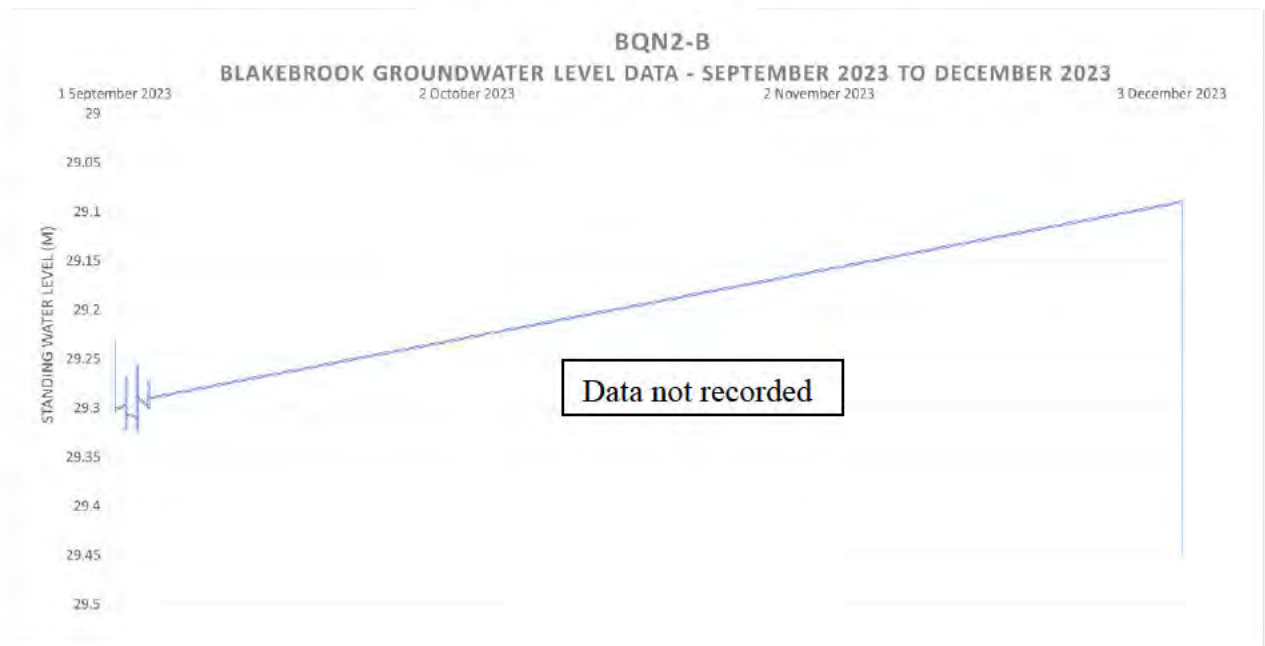


Blakebrook Groundwater Wells -NORTH 1

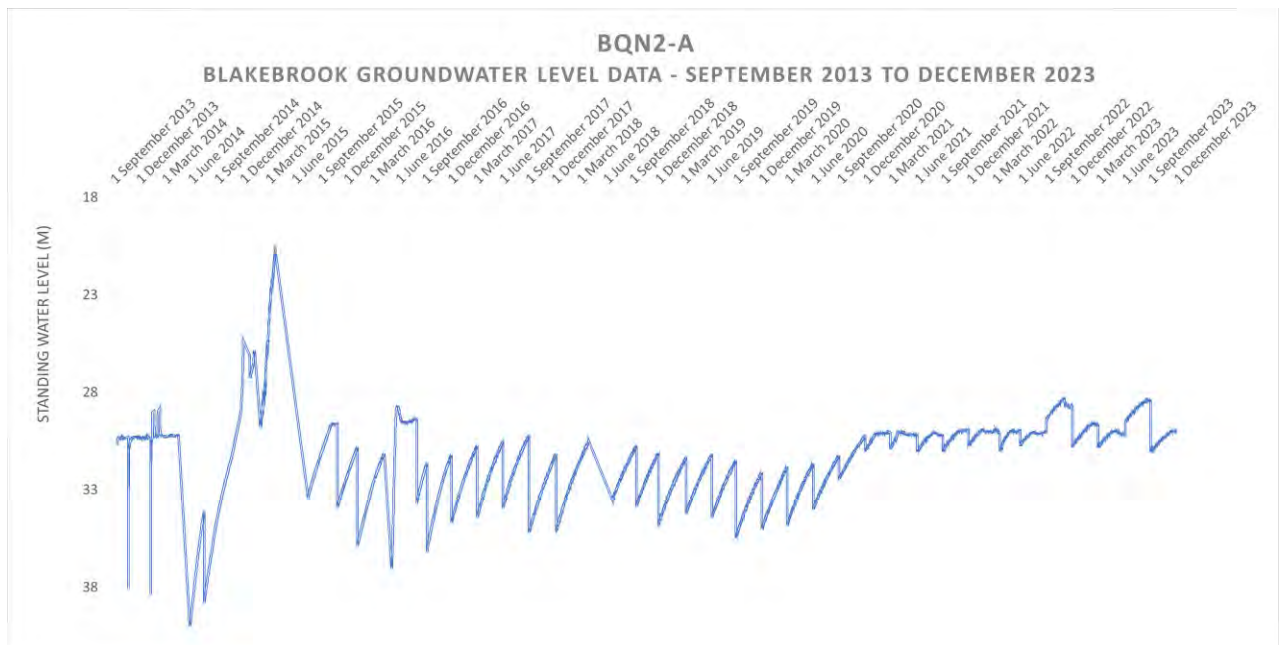
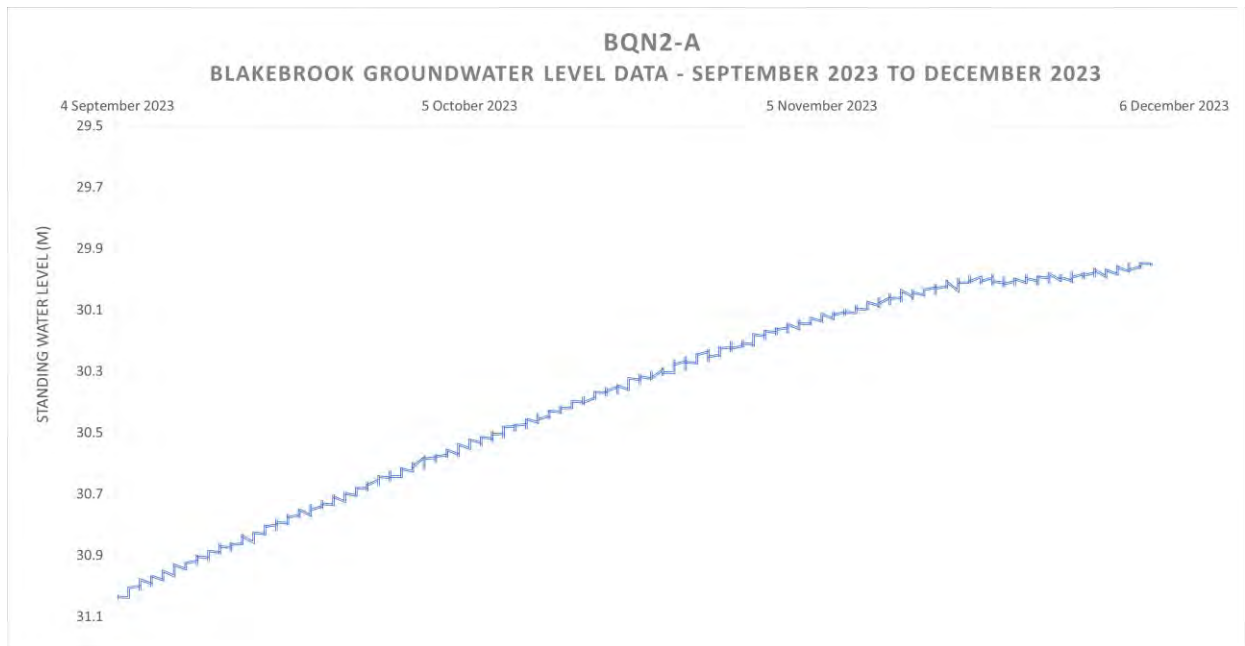
BQN1- D (Deep)



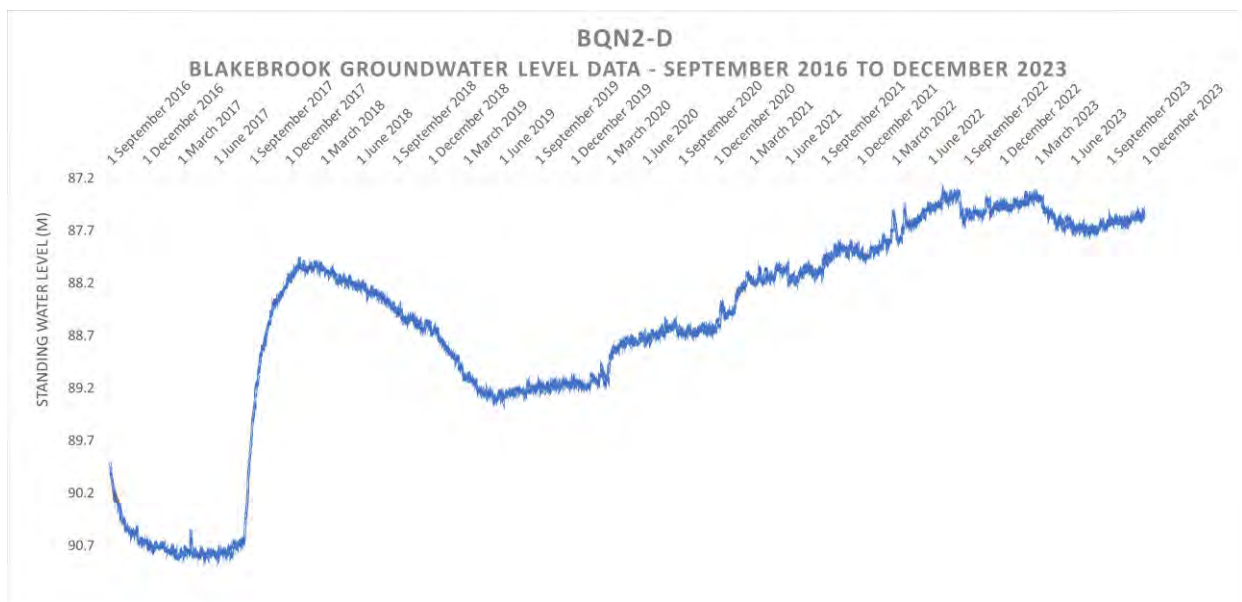
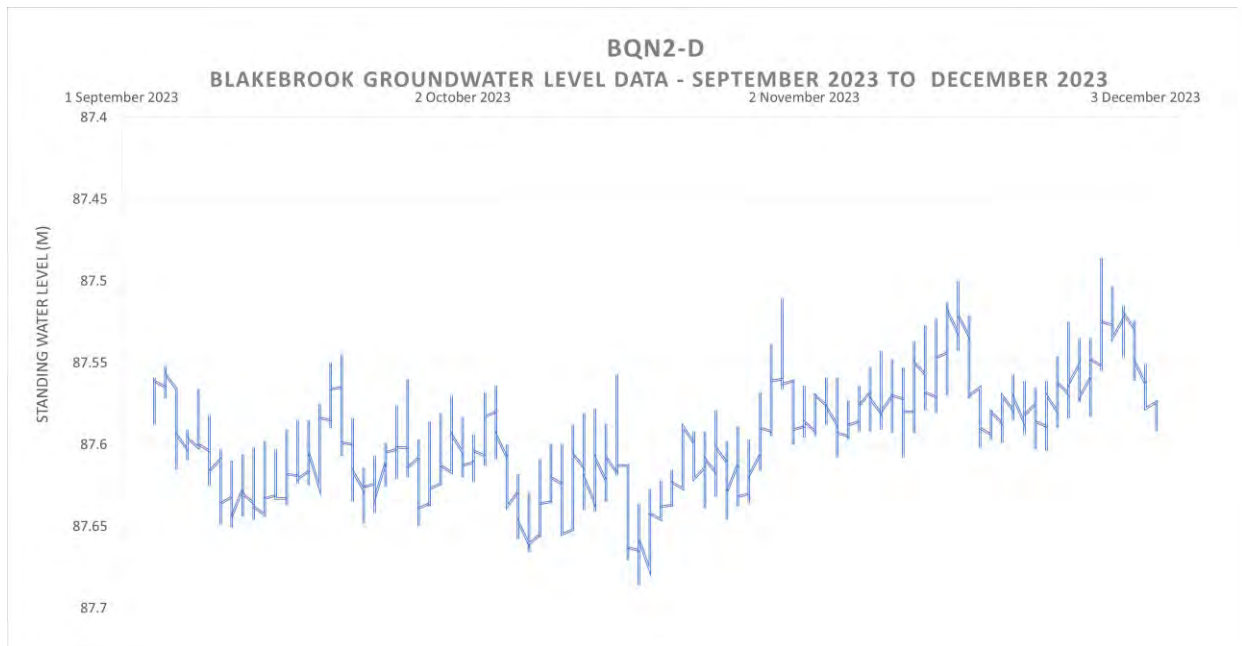
Blakebrook Groundwater Wells -NORTH 2 BQN2- B (Shallow)



Blakebrook Groundwater Wells -NORTH 2 BQN2- A (Intermediate)



Blakebrook Groundwater Wells -NORTH 2 BQN2- D (Deep)





Appendix W

Non-compliance 6 – Groundwater Exceedances



Our ref: ED24/3450

Your ref: MP07_0020

Contact: Lismore City Council

25 January 2024

Department of Planning and Environment (DPE)
Planning and Assessment
(Via Major Projects Portal)

Dear DPE

RE: Groundwater Trigger Exceedances Notification – MP07_0020 Blakebrook Quarry Project

In accordance with Schedule 5 Condition 9, Lismore City Council (Council) would like to report the following minor groundwater exceedances associated with Schedule 3 Condition 19 (iii) – Soil and Water Management Plan.

(iii) Groundwater Management Plan that includes:

- *a provision that requires the Proponent to obtain appropriate water licence(s) to cover the volume of any unforeseen groundwater inflows into the quarry from the quarry face or floor; and*
- *a monitoring program to manage potential impacts, if any, on any alluvium and associated surface water source near the proposed extraction area that includes:*
 - *identification of a methodology for determining threshold water level criteria;*
 - *contingency measures in the event of a breach of thresholds; and*
 - *a program to regularly report on monitoring.*

Following the analysis of groundwater monitoring results (annual grouped review) for Blakebrook Quarry, Council has identified several minor SWMP interim trigger limit exceedances for pH, Total oils and grease, Iron and Lead. Results are illustrated in Attachment 1. *Blakebrook Quarry Groundwater Results (December 2022 to December 2023).*

These interim groundwater trigger limits represent the 80th percentile values for each parameter based on the results/dataset available for each bore between 2016 to 2018. The SWMP states that an exceedance has a 20% probability per monitoring round (using this approach). As such, results from multiple monitoring events necessarily need to be reviewed as a group against the interim target to determine compliance or otherwise (i.e. one exceedance of the target is not necessarily an indication of non-compliance).

Council has identified several consecutive minor exceedances for the following groundwater monitoring bores:

- pH for BQN2-D
- Total oils & grease (mg/L) for BQN1-B, BQN1-D, BQN2-B
- Iron (mg/L) for BQN1-B
- Lead for BQN2-A & BQS1-S

The SWMP corrective action states that if the test results for any parameter fail to meet the water quality objectives or identification of a sudden and un-characteristic change in water levels are likely to be attributable to site activities, further investigations will be conducted.

As such, Council has engaged a consultant to further investigate these occurrences to determine any potential causes and impacts from Quarry operations.

This investigation will seek to ascertain if the incident/failure is an anomaly or if a sustained decline in groundwater quality is present. If a trend exists for declining groundwater quality, the likely cause(s) of contamination will be identified and addressed.

This report will be provided to DPE upon completion.

Should you require any further information, please do not hesitate to contact [REDACTED] on 02 6627 5615 [REDACTED]

Yours Faithfully,

[REDACTED]

[REDACTED]

Manager Operational Compliance
Lismore City Council

Enclosed
Attachment 1. Blakebrook Quarry Groundwater Analysis Results (December 2022 to December 2023)





Appendix X

2023 Groundwater Investigation

Monday 19th February 2023

**Environmental Engineer &
Director**

To: [REDACTED]
Manager of Operational Compliance, Lismore City Council
Re: Blakebrook Quarry Groundwater Quality Assessment

lise@ecoteam.com.au
mob: 0428-215-124
office: (02) 66-215-123
fax: (02) 66-218-123
ABN: 82 106 758 123

Groundwater Quality Monitoring Exceedances Assessment for Blakebrook Quarry
Assessment period: 1st March 2023 to 1st December 2023

1. Introduction

Ecoteam is engaged to assess exceedances within groundwater wells on behalf of Lismore City Council for the Blakebrook Quarry, Blakebrook, NSW. This report presents an analysis of results from March 2023 to December 2023 period with a comparison to prior results (2020-2023) and rainfall.

1.1. Aims and objectives

The aim of this report is to assess exceedance of groundwater analytes taken from the Blackbrook Quarry wells during 2023. The investigation will determine if the incident/failure is an anomaly or a consequence of a sustained decline in groundwater quality in response to quarry activities. If a trend exists for declining groundwater quality, the likely cause(s) of contamination will be identified and addressed.

Minor exceedances were observed for the following analytes:

- pH for BQN2-D
- Lead for BQN2-A & BQS1-S
- Iron (mg/L) for BQN1-B
- Total oils & grease (mg/L) for BQN1-B, BQN1-D, BQN2-B

2. Sampling Locations

Water samples and level data is collected quarterly from all 9 groundwater bores. Sample codes and corresponding sampling locations are shown in **Table 1** and **Figure 1**.

Table 1. Quarterly groundwater sampling sites, sample codes and well information.

Bore ID	RN (NOW)	Easting	Northing	Completion date	TD (mBGL)	Water strike (mBGL)	Casing Depth (mBGL)	Screened (mBGL)	SWL (mBGL)
Northern Two Clusters of Monitoring Bores (re. BQN1A, BQN1B, BQN2A, BQN2B, NOW & Cook p4 (2016))									
BQN1-B (BQN1-S)	GW307 323	524993.7	6818662.9	25/7/13	30	15 - 19	30	12 - 21	4.5
BQN1-A (BQN1-I)	GW307 322	524757.0	6818728.0	26/7/13	60	52 - 60	48	48 - 60	42.5
BQN1-D		524994	6818654.5	29/8/16	115	56 - 63; 99 - 109	115	97 - 109	N/A
BQN2-B (BQN2-S)	GW307 325	524437.7	6818619	28/7/13	42	28 - 38	42	30 - 42	28.5
BQN2-A (BQN2-S)	GW307 324	524436.7	6818615.5	27/7/13	60	52 - 60	60	51 - 60	31.3
BQN2-D		524447.5	6818616.5	29/8/16	133	19 - 24; 44 - 46.5; 112 - 117	133	109 - 121	
Southern Cluster of Monitoring Bores (re. Form A - particulars of completed work, 25/08/16 & GS letter 27/07/17)									
Bore ID	RN (NOW)	Easting	Northing	Completion date	TD (mBGL)	Water strike (mBGL)	Casing Depth (mBGL)	Screened (mBGL)	SWL (mBGL)
BQS1-S		524684.5	6817848.6	25/8/16	55	38 - 43	55	40 - 52	30
BQS1-I		524681.5	6817842.8	24/8/16	73	34 - 39; 64 - 70	73	58 - 70	30
BQS1-D		524678	6817837.2	23/8/16	102.7	34 - 39; 64 - 72; 95 - 99	102.7	87.7 - 99.7	30



Figure 1. Map of quarterly groundwater sampling sites (Source: Lismore City Council).

3. Rainfall

Rainfall was plotted from a nearby rainfall gauge at Tuncester (Leycester Creek-058201), which is situated approximately 3.2 km away from the site. Monthly rainfall at the site ranged from 11 mm during November 2020 to 861 mm during February 2022. The highest rainfall event occurred on 28th February 2022, when 437 mm fell in one day. The mean annual rainfall for the location is 1102 mm taken from the past 23 years. 2256 mm of rainfall was recorded in 2022 which is double the mean rainfall. This significant rainfall may have affected water parameters within the wells. **Figure 2** presents rainfall over the past 3.5 years (2020-2023).

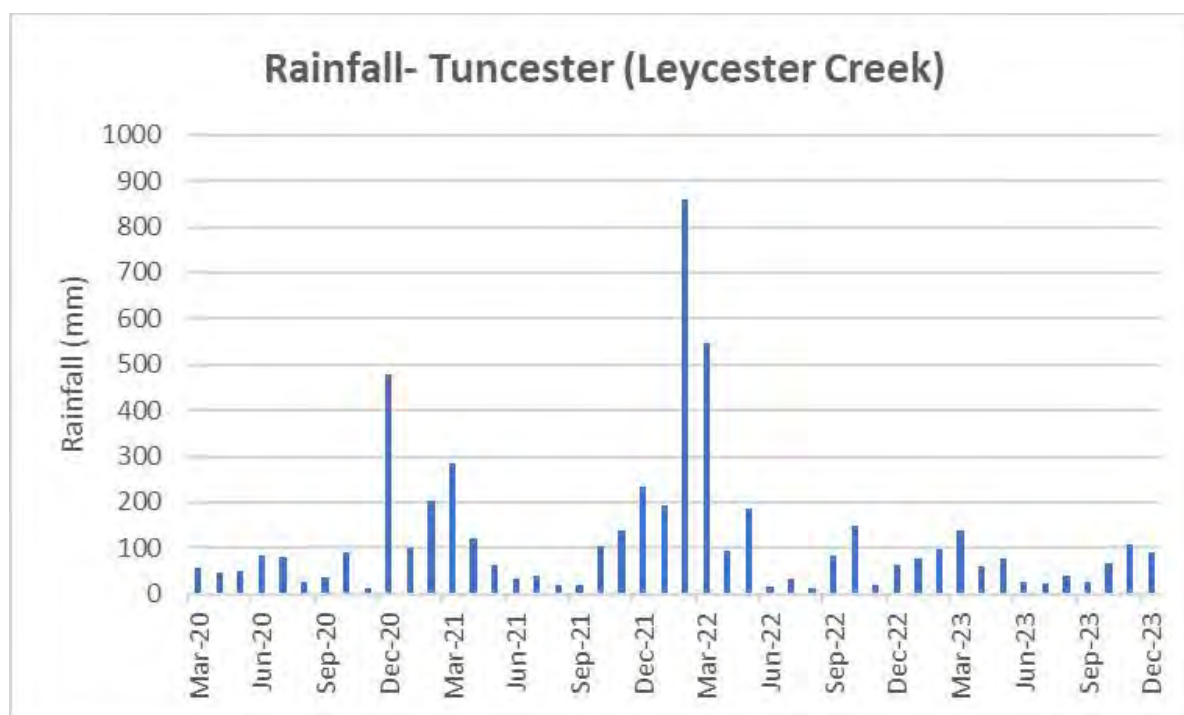


Figure 2. Rainfall at Tuncester (March 2020 to December 2023).

4. pH

pH within BQN2-D exceeded the 2016-2018 Trigger limits twice during 2023. pH is the measurement of the relative concentration of free hydrogen and hydroxyl ions in water and reflects acidity or alkalinity of water. pH has generally increased in BQN2-D since the 2022 flood. The primary source of natural alkalinity is from surrounding geology and bicarbonates. Weathering of basaltic rock and basaltic sediments can contribute to increased pH in groundwater. Following the February rain event, a crevasse was located adjacent to the BQN2-D well. This has now been sealed. This may have increased sediment loading into the groundwater. It is therefore likely that pH increases are from soil and environmental conditions and changes following the 2022 flood rather than any pollution incident/s.

Figure 3 presents pH in BQN2-D over the past 3.5 years and the high rainfall period exhibited during 2022.

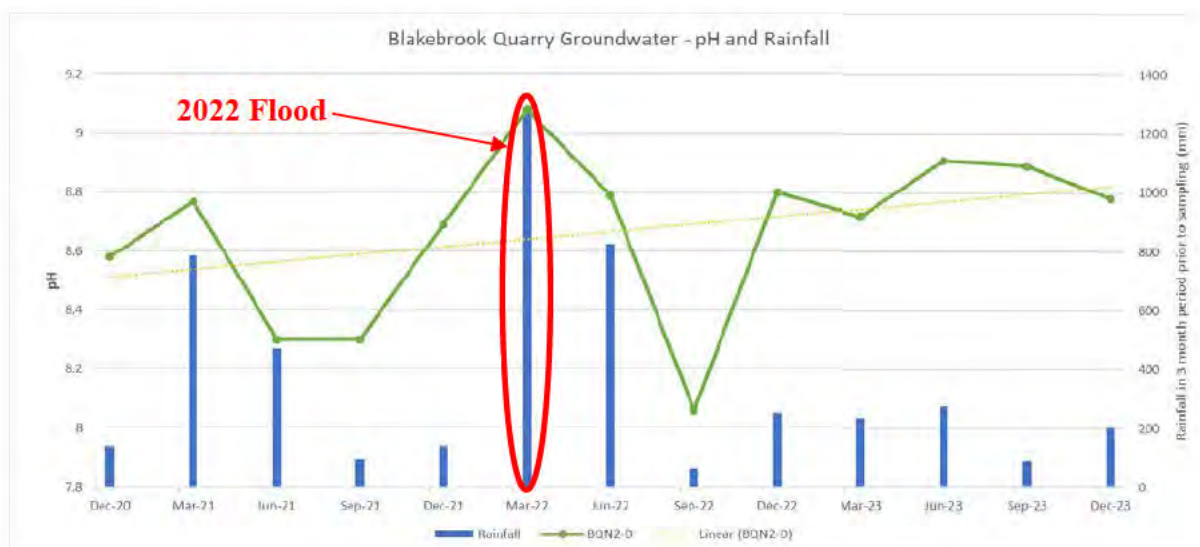


Figure 3. pH in BQN1-D over the past 3.5 years, showing linear trendline and 2022 flood.

5. Lead

Lead is naturally occurring in soil and rock. Usually in low concentrations. Particularly unweathered rock can be a source of naturally occurring lead. Lead may also present in groundwater wells from metal plumbing which can dissolve and form precipitates. Lead may then become soluble at pH between 6-8.

Lead was elevated in BQN2-A and BQS1-S in 2023 above the 2016-2018 trigger levels. During 2023 sampling, lead was found in dissolved lead form with a maximum concentration of 0.001 mg/L (one occasion). Generally, dissolved lead concentrations are below to Limit of Reporting (LOR) within wells at the site. Therefore, lead is present in a suspended form rather than a dissolved form. Lead was observed in BQN2-A and BQS1-S in 2023 as total lead ranging from <0.001 mg/L to 0.007 mg/L. It would be likely that lead is elevated from the natural soil. Soil samples taken at the Blakebrook Quarry by Ecoteam in 2017 had 7.4 - 9.6 mg/kg of natural lead. Lead has increased in these wells since the 2022 flood.

Figure 4 presents a comparison of lead in BQN2-A and BQS1-S over the past 3.5 years and 3 monthly rainfall prior to sampling.

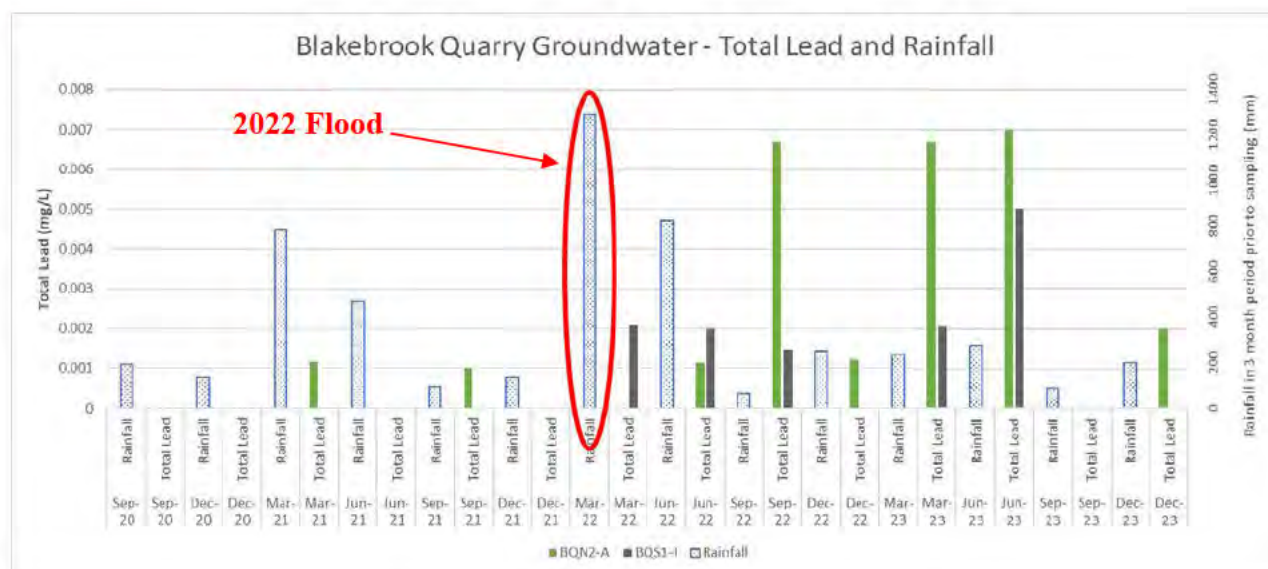


Figure 4. Total lead within BQN2-A and BQS1-S (2020-2023) compared to 3 monthly rainfall prior to sampling.

6. Iron

Iron is abundant in rocks and weathered sediments. Sediments provide iron minerals to groundwater through reductive dissolution of iron-containing oxides. It occurs naturally in groundwater. Natural iron-containing minerals can dissolve in water, release iron ions, and/or form iron complexes. Iron within sediment, plant debris and dissolved organic matter can be transported to groundwater through leaching and is generally supplied to the aquifer by surface precipitation. Iron is generally available in two states within groundwater Fe (II) and Fe(III). Fe (II) is more soluble.

Iron was elevated in BQN1-B in 2023 above the 2016-2018 trigger levels. Total iron ranged from 1.82 mg/L to 2.46 mg/L during 2023. Iron was found in dissolved iron form ranging from 0.254 mg/L to 0.856 mg/L BQN1-B. Therefore, iron is present mainly in a suspended form; however, some dissolved iron is present. It would be likely that iron is elevated due to environmental causes rather than a pollution event. Iron has increased in BQN1-B since the 2022 flood.

Figure 5 presents a comparison of iron in BQN1-B over the past 3.5 years and 3 monthly rainfall prior to sampling.

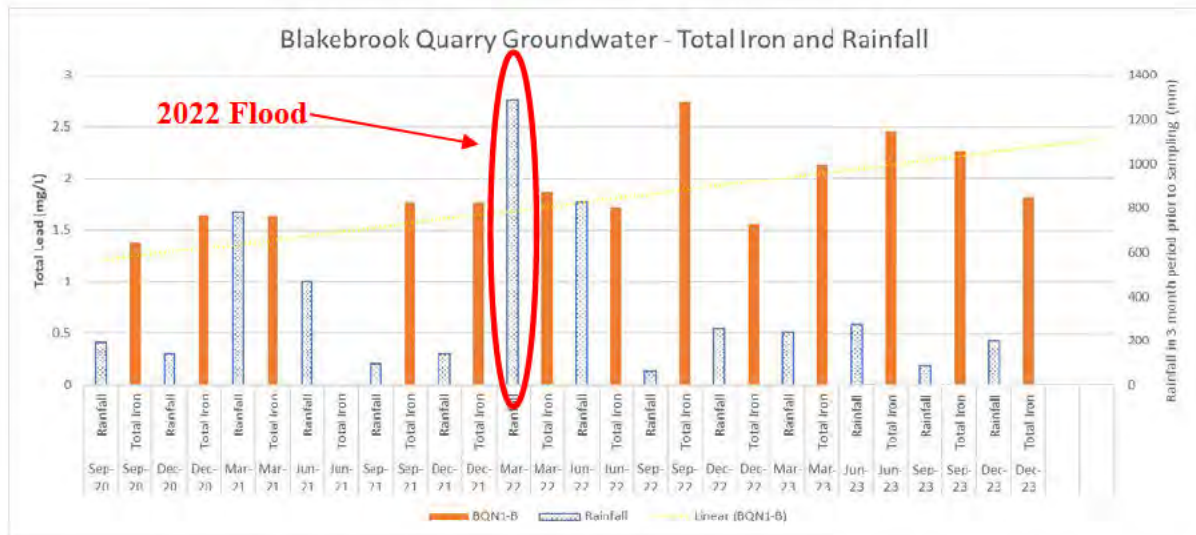


Figure 5. Total iron within BQN2-A (2020-2023) over the past 3.5 years, showing linear trendline and 2022 flood.

7. Total Oils and Grease

Total Oil and Grease (TOG) are materials that are extractable in n-hexane that do not evaporate at 70°C and can be weighed. They can include non-volatile hydrocarbons, waxes, greases, and other similar materials including hydrocarbons, vegetable oils, animal fats, waxes, soaps, greases, chlorophyll and related oily organic matter in aqueous phase. They can be either petrogenic or natural origin. In groundwater organic matter can seep into groundwater sources as particles and produce fatty acids which are measured in the detection of oil and grease.

TOG was detected in BQN1-B, BQN1-D, and BQN2-B above the 2016-2018 trigger levels in 2023. TOG ranged from <2 mg/L to 7.86 mg/L during 2023. Levels within wells were also elevated prior to the 2022 floods. TOG has been consistently elevated in the subject wells since June 2023. BTEXN was not present during sampling events. TRH was present in BQN2-D in June 2023 and BQN1-D in September 2023. A silica gel clean-up identified that TRH was of natural occurrence during the June 2023 sampling event. Elevated TOG could be a result of naturally occurrence similar to TRH or could be from other anthropogenic sources which are not tested in the groundwater. A bitumen plant is present at the site which produces PAH.

Silica gel clean up can be used to remove any discolouration in the samples, which represents polar compounds such as naturally occurring organic acids. Most natural oils and greases (e.g. vegetable oils, animal fats) are polar, and are excluded during a silica gel clean up analysis. Any remaining TOG is therefore from non-volatile, non-polar oils and greases of anthropogenic sources.

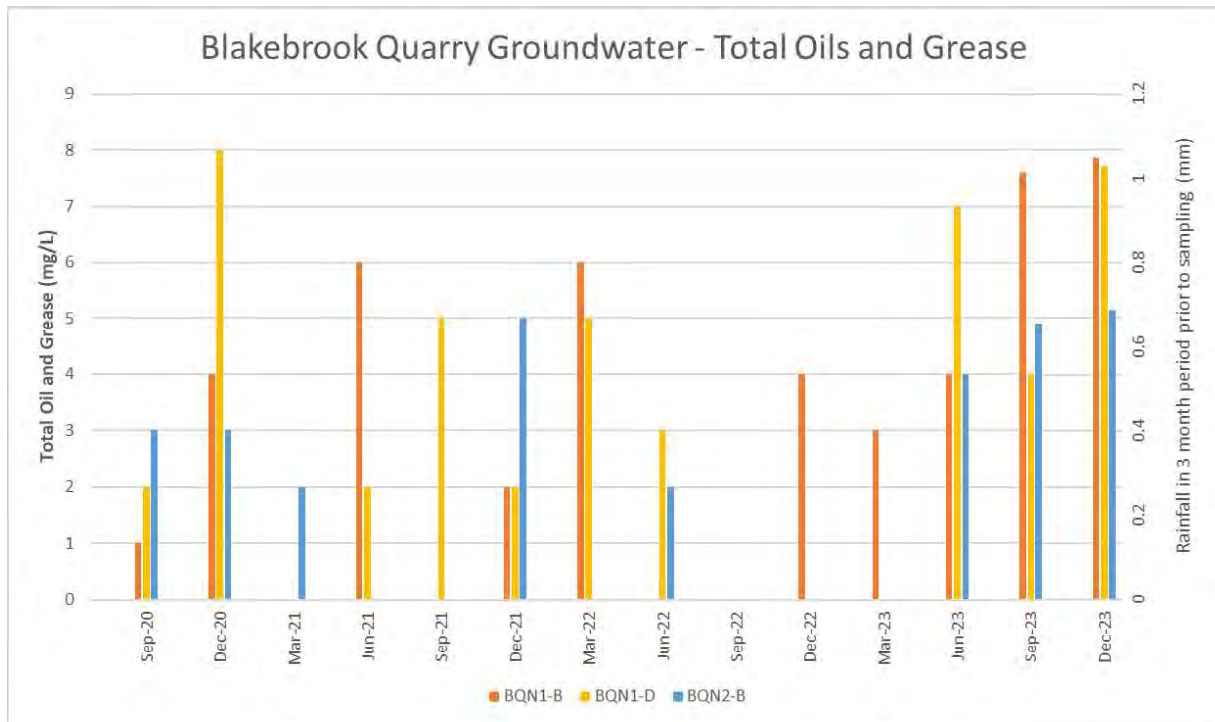


Figure 6. TOG within BQN1-B, BQN1-D, BQN2-B (2020-2023)

8. Summary and recommendations

PH, lead and iron are most likely of natural occurrence from increased weathering and sediment following the 2022 flood and high rainfall period. No further investigation is recommended for these parameters. TOG can be present from both natural and anthropogenic sources. It is recommended that, if TOG is identified above the trigger limits during the next round of sampling, that silica gel clean-up should be undertaken to ascertain if the source is of natural occurrence or pollution related.

Please contact me anytime to discuss this assessment further.

Kind regards,

Environmental Engineer & Director

mob: 0428-215-124
office: (02) 66-215-123
fax: (02) 66-218-123
ABN: 82 106 758 123



Appendix Y

2022 Groundwater Investigation

Wednesday 15th March 2023

To: [REDACTED]
Commercial Services Compliance Manager, Lismore City
Re: Blakebrook Quarry Groundwater Quality Assessment

**Environmental Engineer &
Director**

lise@ecoteam.com.au
mob: 0428-215-124
office: (02) 66-215-123
fax: (02) 66-218-123
ABN: 82 106 758 123

Groundwater Quality Monitoring Exceedances Assessment for Blakebrook Quarry
Assessment period: 1st September 2020 to 1st December 2022

1. Introduction

Ecoteam is engaged to assess exceedances within groundwater wells on behalf of Lismore City Council for the Blakebrook Quarry, Blakebrook, NSW. This report presents an analysis of results from September 2020 to December 2022 with a comparison to prior results and rainfall.

1.1. Aims and objectives

The aim of this report is to assess exceedance for the past 10 sampling rounds within groundwater results taken from the quarry site. The investigation will determine if the incident/failure is an anomaly or a consequence of a sustained decline in groundwater quality in response to quarry activities. If a trend exists for declining groundwater quality, the likely cause(s) of contamination will be identified and addressed.

2. Sampling Locations

Water samples and level data were collected from all 9 groundwater bores. Sample codes and corresponding sampling locations are shown in **Table 1** and **Figure 1**.

Table 1. Quarterly groundwater sampling sites, sample codes and well information.

Bore ID	RN (NOW)	Easting	Northing	Completion date	TD (mBGL)	Water strike (mBGL)	Casing Depth (mBGL)	Screened (mBGL)	SWL (mBGL)
Northern Two Clusters of Monitoring Bores (re. BQN1A, BQN1B, BQN2A, BQN2B, NOW & Cook p4 (2016))									
BQN1-B (BQN1-S)	GW307 323	524993.7	6818662.9	25/7/13	30	15 - 19	30	12 - 21	4.5
BQN1-A (BQN1-I)	GW307 322	524757.0	6818728.0	26/7/13	60	52 - 60	48	48 - 60	42.5
BQN1-D		524994	6818654.5	29/8/16	115	56 - 63; 99 - 109	115	97 - 109	?
BQN2-B (BQN2-S)	GW307 325	524437.7	6818619	28/7/13	42	28 - 38	42	30 - 42	28.5
BQN2-A (BQN2-S)	GW307 324	524436.7	6818615.5	27/7/13	60	52 - 60	60	51 - 60	31.3
BQN2-D		524447.5	6818616.5	29/8/16	133	19 - 24; 44 - 46.5; 112 - 117	133	109 - 121	
Southern Cluster of Monitoring Bores (re. Form A - particulars of completed work, 25/08/16 & GS letter 27/07/17)									
Bore ID	RN (NOW)	Easting	Northing	Completion date	TD (mBGL)	Water strike (mBGL)	Casing Depth (mBGL)	Screened (mBGL)	SWL (mBGL)
BQS1-S		524684.5	6817848.6	25/8/16	55	38 - 43	55	40 - 52	30
BQS1-I		524681.5	6817842.8	24/8/16	73	34 - 39; 64 - 70	73	58 - 70	30
BQS1-D		524678	6817837.2	23/8/16	102.7	34 - 39; 64 - 72; 95 - 99	102.7	87.7 - 99.7	30

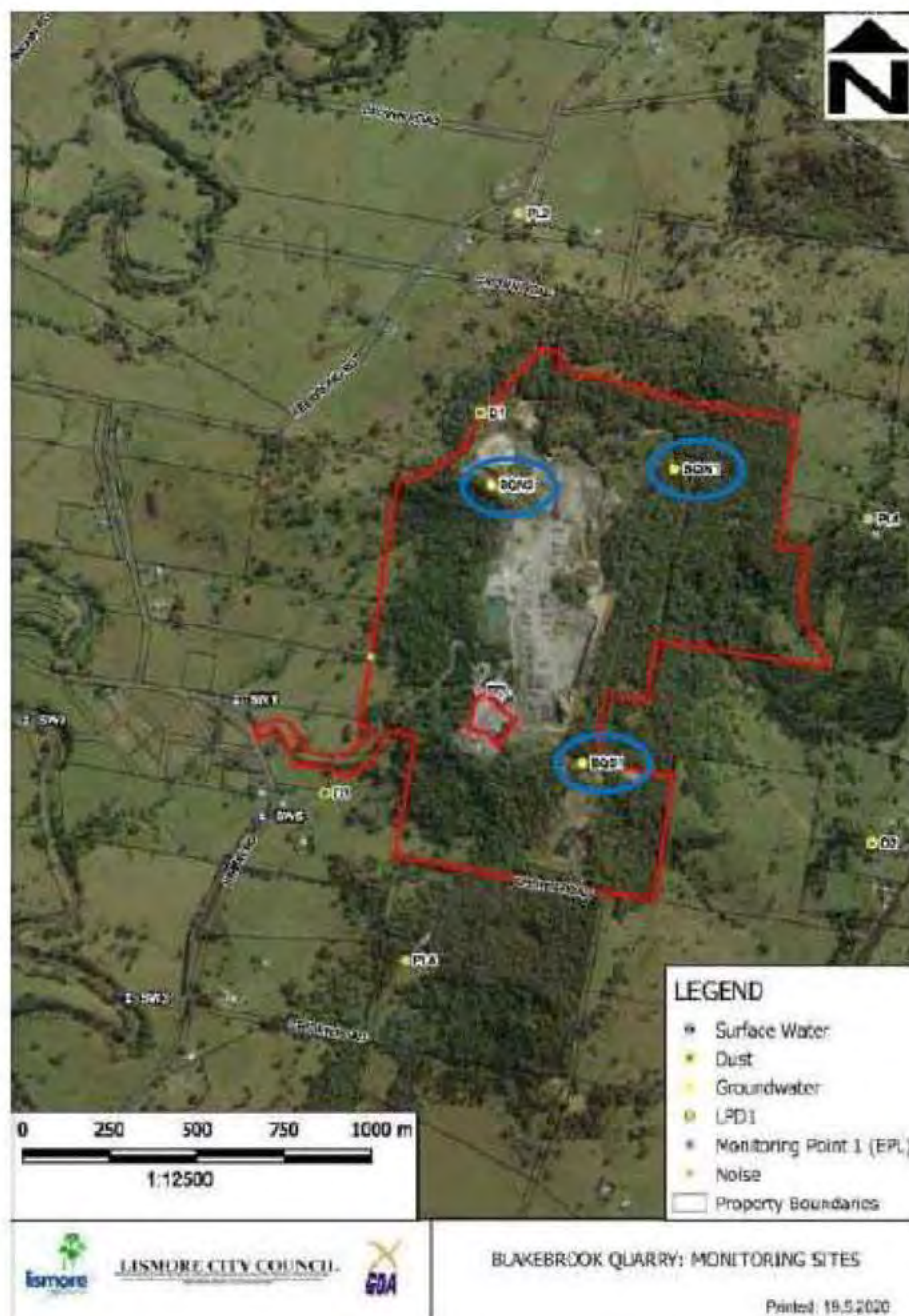


Figure 1. Map of quarterly groundwater sampling sites (Source: Lismore City Council).

3. Rainfall

Rainfall was plotted from a nearby rainfall gauge at Tuncester (Leycester Creek-058201), which is situated approximately 3.2 km away from the site. Monthly rainfall at the site ranged from 11 mm during November 2020 to 861 mm during February 2022. The highest rainfall event occurred on 28th February 2022, when 437 mm fell in one day. The past 2-year period

has had exceptionally high rainfall. The mean annual rainfall for the location is 1102 mm taken from the past 23 years. The last year (2022) received 2256 mm of rainfall which is double the mean rainfall. **Figure 2** presents rainfall over the past 3 years (2020-2022).

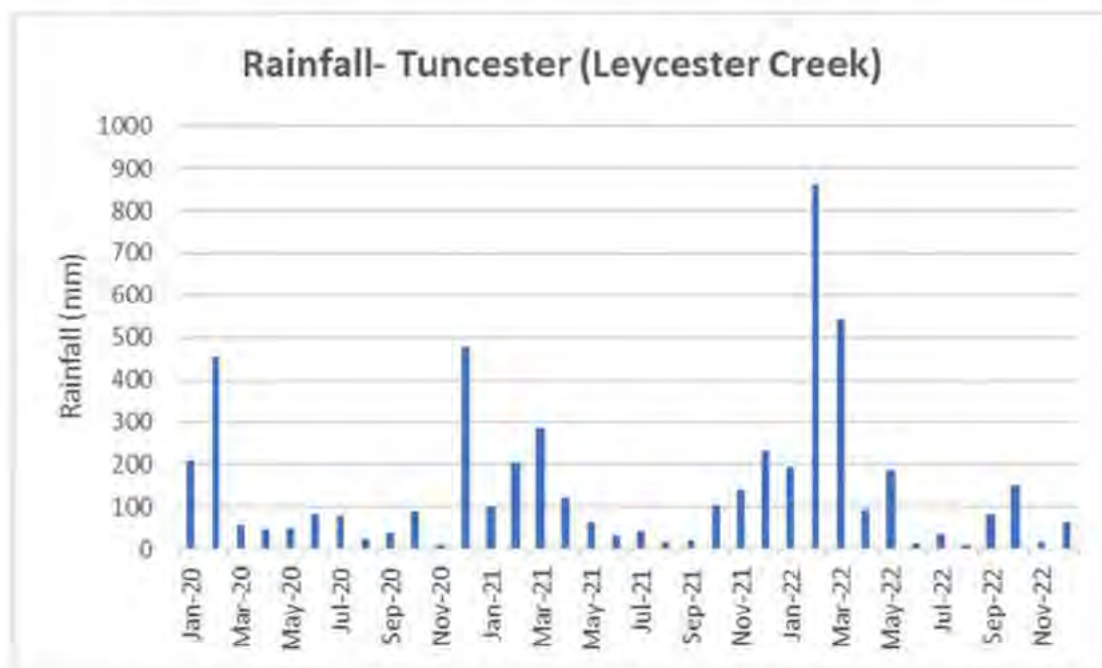


Figure 2. Rainfall at Tuncester (January 2020 to December 2022).

4. Electrical Conductivity

EC is the measurement of dissolved salts in water. Soil and rocks release ions into the water as they flow through them, increasing the salinity of groundwater. Dissolved salt concentration is dependent on the dilution of rainwater. Rainwater has almost zero conductivity. Rainwater recharges aquifers by infiltration through the soil and rocks. Therefore, EC within the groundwater wells is expected to change in relation to environmental conditions such as rainfall.

Table 2 presents a comparison of 80th percentile EC results within each of the groundwater wells conducted from sampling undertaken (2016 to 2018 and 2020 to 2022) and rainfall (2016 to 2018 and 2020 to 2022).

Table 2. 80th percentile EC (2016-2018 and 2020-2022) results within Blakebrook groundwater wells compared to rainfall.

Electrical Conductivity (µS/cm)	BQS1S	BQS1I	BQS1D	BQN1B	BQN1A	BQN1D	BQN2B	BQN2A	BQN2D	Rainfall (mm)
2016-2018	512	1624	1829	1171	2082	1440	1138	1200	1014	3411
2020-2022	327	1424	1728	1041	1976	1387	1141	672	914	5192

Electrical conductivity has decreased in all groundwater wells during the 2020-2022 period. An assessment of each well has been undertaken for the past 10 sampling rounds (2 ½ years). **Figure 3** presents a comparison of EC in each of the wells and 3 monthly prior rainfall prior to sampling.

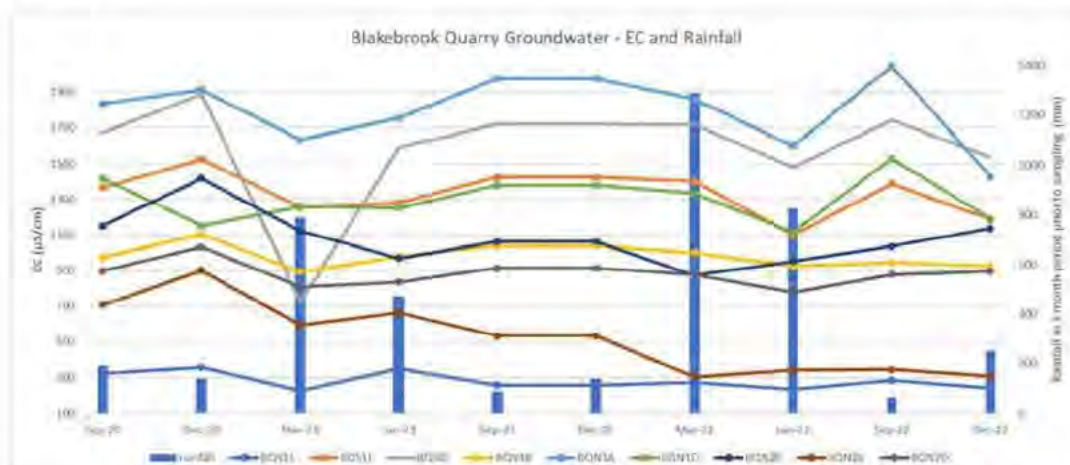


Figure 3. EC within Blakebrook groundwater wells (2020-2022) compared to 3 monthly rainfall prior to sampling.

EC within the wells is generally affected by prior rainfall. EC tends to increase slightly during dry times and reduce following periods of rainfall. Therefore, changes in EC are more likely a result of environmental conditions such as rainfall rather than any pollution incident.

5. Lead

Lead is naturally occurring in soil and rock. Usually in low concentrations. Particularly unweathered rock can be a source of naturally occurring lead. Lead may also present in groundwater wells from metal plumbing which can dissolve and form precipitates. Lead may then become soluble at pH between 6-8.

An assessment of each of the Blakebrook groundwater wells has been undertaken for the past 10 sampling rounds (2 ½ years). Lead was found in dissolved lead form with a maximum concentration of 0.001 mg/L in all wells. Generally dissolved lead is below the Limit of Reporting (LOR) within wells at the site. Therefore, lead is present in a suspended form rather than a dissolved form. Lead has been observed in total form (including suspended solids) ranging from 0.001 mg/L to 0.077 mg/L. The highest levels were found in wells BQN2-A, BQN2-B and BQN2-D at 0.077, 0.007 and 0.026 mg/kg total lead respectively. It would be likely that lead is elevated from the natural soil. Soil samples taken at the Blakebrook Quarry by Ecoteam in 2017 had 7.4-9.6 mg/kg of natural lead.

Table 3 presents a comparison of 80th percentile lead results within each of the groundwater wells conducted from sampling undertaken from 2016 to 2018 and 2020 to 2022. **Figure 3** presents a comparison of EC in each of the wells and 3 monthly rainfall prior to sampling.

Table 3. 80th percentile 3-year lead results (2016-2018 and 2020-2022) within Blakebrook groundwater wells.

Lead (mg/L)	BQS1S	BQS1I	BQSID	BQN1B	BQN1A	BQN1D	BQN2B	BQN2A	BQN2D
2016-2018	0.001	0.005	0.009	0.001	0.018	0.008	0.004	0.002	0.005
2020-2022	0.002	0.002	0.003	0.001	0.004	0.003	0.020	0.002	0.014

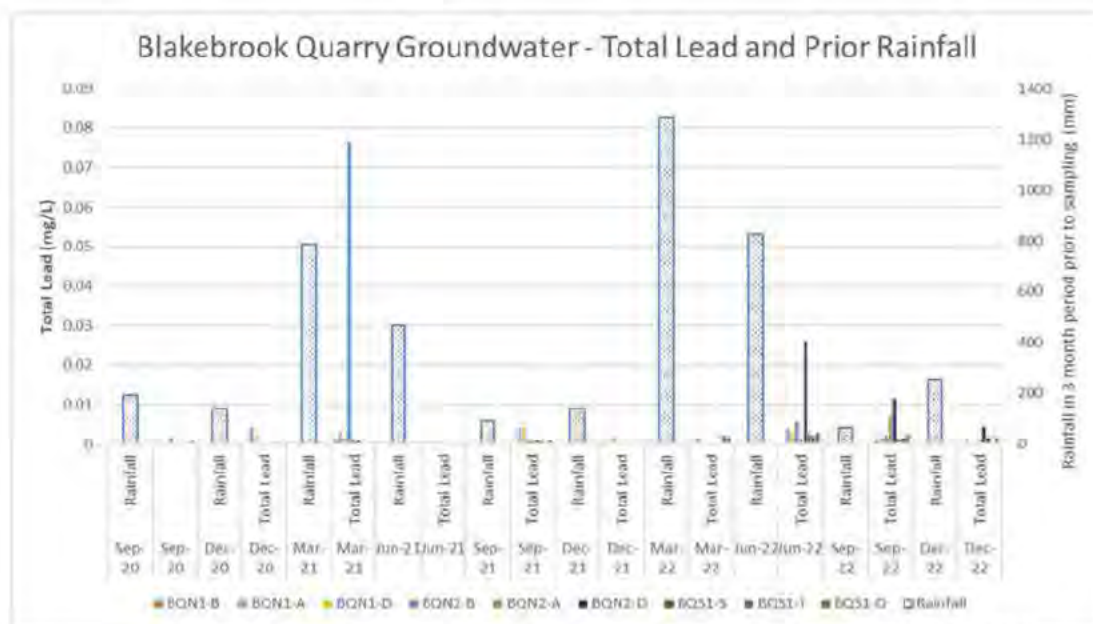


Figure 4. Total lead within Blakebrook groundwater wells (2020-2022) compared to 3 monthly rainfall prior to sampling.

Elevated levels of lead (greater than the 80th percentile 2016-2018 trigger levels) have been detected within the groundwater wells during the March 2021 sample period. Although rainfall was high in the three months prior to sampling, rainfall of 162 mm was also experienced in the 2 weeks prior to sampling. All wells experienced an increase in total lead following a wet period from January to June 2022. Higher concentration of total lead were detected in the BQN2 well cluster. Following the February rain event, a crevasse was located adjacent to the BQN2-D well. This has now been sealed. This may have increased sediment into the groundwater. It is therefore likely that lead is from soil and environmental conditions rather than any pollution incident/s.

Please contact me anytime to discuss this assessment further.

Kind regards,

[REDACTED]

Environmental Engineer & Director

[REDACTED]

mob: 0428-215-124

office: (02) 66-215-123

fax: (02) 66-218-123

ABN: 82 106 758 123



Appendix Z

Bush Regeneration Plan Monitoring Report

Blakebrook Quarry
Lot 53 & 54 DP 1254990 (previously Lot 201 DP 1227138)
Bush Regeneration Plan
Annual Monitoring Report Five (2023)



Young Eucalyptus sp. regenerating in Southern end of Zone e5 after Lantana removal

Prepared by:



Botanist

BPlSc (UNE); Bush Regeneration Cert 3&4

January 2024 Final

Lismore City Council acknowledges the people of the Bundjalung nation, traditional custodians of the land on which we work.

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Table of Contents

Introduction.....	4
Monitoring framework.....	4
Frequency of monitoring.....	4
Monitoring methods.....	4
Summary of work zone review 2023.....	5
Adaptive Management or 2024.....	6
Map of work zones, photo points and work zone status.....	7
Table 1 Status of current work zones December 2023.....	8
Work Zone Review 2023.....	9
Zone n2 (photo points n2a, n2b).....	9
Zone n3 (photo points n3a).....	13
Zone e5 (photo points e5a, e5b, e5c).....	15
Zone e1 (photo points e1a, e1b).....	20
Zone e2 (photo points e2a, e2b).....	23
Zone w4 (photo points w4a).....	26
Zone w1 (photo points w1a, w1b).....	29
Zone s1 (photo points s1a, s1b).....	32
Table 2 Additional species identified post BRP.....	35
References.....	38

Introduction

This Bush Regeneration Plan Monitoring Report is the fifth to report on the progress of bush regeneration activities at Blakebrook Quarry and covers the period January to December 2023 (Year Five).

Monitoring framework

The Bush Regeneration Plan (BRP) (Dawson, 2018) and Bush Regeneration Plan Monitoring Addendum (BRPMA) (Dawson, 2019) are contained within Annex B of the Biodiversity Offset Strategy (BOS) (ERM, 2018) which in turn is subject to the Blakebrook Quarry Biodiversity & Rehabilitation Management Plan (BRMP) (ERM, 2018a). The BOS requires the maintenance and monitoring of offset sites (including assisted regeneration) to be integrated into the wider schedule for rehabilitation works provided in Chapter 9, 11 and 13 of the BRMP (ERM, 2018).

Frequency of monitoring

As recommended in the BRPMA, reporting is to be conducted on a bi-annual basis for the first three years following commencement of regeneration works and then annually for the following seven years until the ten-year review. During preparation of the Year One report, it was determined that this was an excessive reporting requirement and that annual external reporting would be adequate. This was considered appropriate due to the ongoing extended dry season of 2020 and 2021. All external reporting for Blakebrook Quarry is to be approved by the Head of Roads & Quarry (ERM, 2018).

Monitoring methods

The BOS recommends that a suitably qualified professional be engaged to perform ongoing monitoring of bush regeneration activities against the performance indicators provided in Annex C (ERM, 2018).

Best practice requires adaptive management as a standard monitoring approach for any ecological restoration project (SERA, 2021). This is achieved by an independent and suitably qualified person routinely inspecting the site to determine whether restoration actions assessed against performance indicators are being achieved, using fixed photo points as evidence (SERA, 2021).

Photo points identified by GPS coordinates have been established in each zone prior to work commencing. Baseline photos were provided either by Eco Connections in July 2012 for the on-site work zones (which existed prior to the acquisition of an additional 45ha by council in 2017) or by F. Dawson in December 2018 for the off-site work zones within the 45ha acquired in 2017. Refer to the BRPMA. Comparison photos were taken in late December 2022, and for this report, December 2023.

Daily Work Records (DWRs) were collated from Roots Down Conservation Contractors and were used to assess the effectiveness of weed control techniques and rates of recruitment of native plant species (DWRs available on request). As stated in the BRPMA, monitoring reports will consist of comparison photos and a brief progress report based on the Key Performance Indicators (KPI's) summarised in Table 2 of the BRPMA (Dawson, 2019).

Summary of work zone review 2023

➤ Based on the methods outlined in the introduction, the author is of the opinion that to date all KPI's have been met and work continues to progress as planned and as detailed in the following review by work zone. The status of the current work zones is summarised in Table 1 and mapped in Figure 1.

➤ As outlined in Monitoring Report Four (refer Page 2) and in accordance with the BRP (Dawson, 2018), the focus in 2023 has consisted of:

- Ensuring that the maintenance of all zones worked to date is conducted in a planned and timely manner to prevent regression. Work comprised of regular spot sprays within the completed northern and eastern zones adjacent to the main pit (n2, n3, e1, e5) and zone w4 adjacent to the quarry access road. Zone 4 w4 is a challenging and labour-intensive zone with difficult terrain and vigorous exotic and native vines. Maintenance costs are minimised due to the proximity of the northern and eastern zones, as outlined in the BRP (Dawson 2018).
- Primary works in Core Koala Habitat (CEG,2006) zone e2. As at the end of December 2023, primary works in this 3.5ha zone are complete. Follow-up was conducted during year five and will continue.

➤ It was anticipated that by the end of Report Five (2023) the following would be achieved, and this has been the case:

- Regular maintenance of the completed northern and eastern zones adjacent to the main pit (n2, n3, e5, e1) and adjacent to the quarry access road (w4) to prevent regression.
- Regular follow-up of recently completed zone e2 to capture any missed weeds during primary works and target the first round of germinating weeds.
- Commencement of primary works in Core Koala Habitat (CEG,2006) zone w1, which was scheduled to commence in Year Six in the BRP (Dawson, 2018).
- Commencement of primary works in Connecting Koala Habitat (CEG,2006) zone s1, which was scheduled to commence in Year Six in the BRP (Dawson, 2018).

➤ The continued presence of koalas was confirmed by four sightings this year,. Without specific scientific monitoring for Koalas, the number of incidental sightings is not a reliable measure, and it is only assumed Koalas are still utilising the site in some way. Regeneration of primary koala food species Forest Red Gum (*Eucalyptus tereticornis*) and Tallowwood (*E. microcorys*) in addition to a suite of secondary species (*E. amplifolia*, *E. acmenoides*, *E. grandis*, *Lophostemon confertus*) post weed control, and targeting of selected rainforest pioneers is evident within the koala habitat zones (n2, n3, e5, e1, w1, e2).

➤ Therefore, it is recommended that a koala survey to monitor the population is undertaken in the future as recommended by the final five year Biolink Koala Monitoring Report Pg 4 (“We consider ongoing habitat rehabilitation works that include increasing the densities of the naturally occurring preferred koala food tree species Tallowwood and Forest Red Gum, as well as measures that could work over the longer-term to improve habitat/landscape connectivity as useful ongoing koala management measures. Ongoing monitoring of the population as undertaken over the time frame of this project also has much to contribute in terms of a long-term ecological monitoring program as well as informing community interest and/or debate on the impacts of quarrying activities on koalas generally.” Biolink (2016).

➤ Work additional to the activities outlined in the BRP is required from time to time, but no additional actions were requested during 2023.

Adaptive Management for 2024

➤ It is the author's opinion that the large area now treated should be the priority for follow up and maintenance treatments so as not to waste the regenerating volunteer plants occurring after the disturbance of primary weed control.

➤ Follow -up in zone e2. Special attention should be paid to the Eastern boundary where some Cats Claw Creeper was adjacent to the site. To prevent it spreading into e2 zone after treatment, more follow up is required.

➤ Commencement of primary work in Zone e3 could be undertaken once consolidation and fine tuning of high quality worked areas is well underway.

➤ Reconsider how much time and effort is put into Zone w4. Previous Koala sightings in this zone could indicate it has some habitat value, and it is worth persisting with to some degree, however, with many boulder piles, access road and power lines involved creating edge effects, expectations of healthy forest here may not be a realistic expectation. Monitoring photos do show some growth in pioneer species so continue to monitor this area and treat emerging weeds as necessary. Expectations of 5% weed cover may not stay consistently that low. The terrain in this area is extremely hazardous to work in on foot, with many boulders covered with vines.

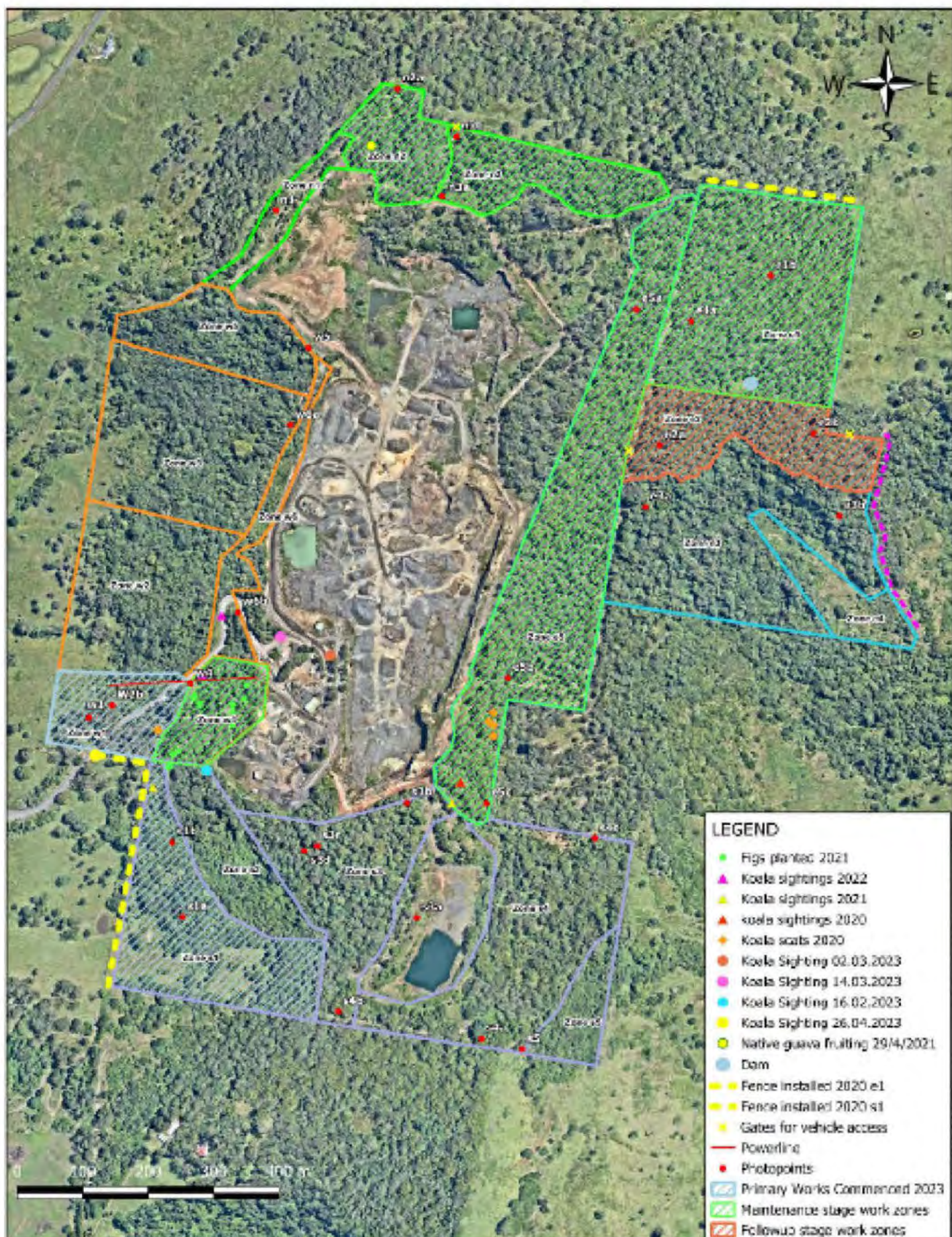


Table 1 Status of current work zones December 2023

P (primary), FU (follow-up), ANR (assisted natural regeneration), CKH (core koala habitat), DG (disturbed grassland), CF (closed forest), Onsite (workzones in the original offset area pre acquisition of the 45ha in 2017), offsite (workzones in the 45ha 2017 acquisition), BRP (Bush Regeneration Plan, Table 1)

Onsite (workzones in the original offset area pre acquisition of the 45ha in 2017), offsite (workzones in the 45ha 2017 acquisition), BRP (Bush Regeneration Plan, Table 1)													
Offset Area	Workzone name	Photopoints in work zone	Veg type	Strategy	Status or Priority	Start year per BRP	Completion year per BRP	Photopoints Report 4	Photopoints Report 5	Status @ 31/12/2023	Primary & follow-up work to do	Area (ha)	Note
Onsite	n2	n2a, n2b	CKH	ANR	Completed	2	End Yr 2 (completed ahead of schedule but see e5)	n2a, n2b	n2a, n2b	Primary work completed in 2019 apart from small area of follow-up (Lantana to overspray and delayed as conditions were too dry until early 2020. At maintenance stage.	-	2	
Onsite	n3	n3a	CKH	ANR	Completed	work started prior to BRP	n/a (completed prior to year 1)	n3a	n3a	Primary works completed. At maintenance stage	-	2.9	
Onsite	e5	e5a,e5b,e5c	CKH	ANR	Completed	1 (60% worked prior to BRP)	End Yr1 (completed behind schedule but see n2)	e5a, e5b, e5c	e5a, e5b, e5c	Primary and follow-up work completed mid-2020 after work moved to n2 in 2019 due to dry windy conditions. At maintenance stage.	-	6.2	
Offsite	e1	e1a, e1b	CKH	ANR	High	3	End Yr 4	e1a, e1b	e1a, e1b	Primary work completed Year 4. Follow-up continue into Year 5.	-	7.8	200m fencing and gate installed 2020
Offsite	e2	e2a, e2b	CKH	ANR	High	5	End of Yr5	e2a, e2b	e2a, e2b	Primary work completed Year 5. Follow-up continue into Year 6.	100% FU	3.5	fencing per BRP not necessary per LCC jan2022
Offsite	w4	w4	DG/CF	ANR	High	2	end of Yr2 (follow-up yr 3)	w4	w4	Primary works completed. At maintenance stage	-	1.7	
Offsite	s1	s1a, s1b	CKH linkage	ANR	Medium	6	end of yr 7	-	s1a, s1b	Primary work 1% completed from fence installation	99%P, 1&FU	5.7	360m fencing & gate installed 2020
Offsite	w1	w1a	CKH	ANR	High	6	end of yr 7	-	w1a	Primary work started December 2023	100%P	2.3ha	150m fencing to be installed west boundary

Work Zone Review 2023

Zone n2 (photo points n2a, n2b)

On-site zone	Area	Description & timing	Value	Objective	Performance Indicator	Actions
n2	2ha	Tall Open Forest – Tall Open Forest/Woodland, moderate condition <i>Primary & follow up complete year 1</i>	Core Koala Habitat	Enhance koala habitat by removing weeds in mid and ground stratum which prevent germination of natives, particularly Eucalypts	All strata 95% natives, Eucalypt species germinating	<ul style="list-style-type: none"> ➤ Weed control (working in lines from east to west from the eastern vehicle track adjacent to completed zone n3) Primary: clear around natives, hand weed/cut & paint/overspray Lantana, cut & paint/drill Privet & Camphor & Jacaranda, cut & paint/drill or spot spray Devil's Fig, Tobacco & exotic vines. Spot spray Crofton. Follow up: spot spray as required/to prevent seeding. ➤ Remove rainforest pioneers ➤ Slash vehicle trails

- As this zone is at maintenance stage, the focus of works during 2022 was ensuring that regular spot sprays were conducted in a planned and timely manner to prevent regression.
- KPI's are achieved with less than 1% weeds in the mid and upper strata and approximately 5% exotic grasses in the ground stratum (refer comparison and general photos below). The targeted removal of rainforest pioneers has resulted in an increase in eucalypt germination, particularly Tallowood and Forest Red Gum, both primary food species for the koala (refer general photos below).

Comparison photos zone n2a (Source [REDACTED], December 2023)



North



East



South



West

Comparison photos zone n2b (Source [REDACTED], December 2023)



North



East



South



West

General photos zone n2 (Source [REDACTED], December 2023)



N2 Lantana patch removed, natives regenerating



Eucalyptus regenerating

Zone n3 (photo points n3a)

On-site zone	Area	Description & timing	Value	Objective	Performance Indicator	Actions
n3	2ha	Tall Open Forest – Tall Open Forest/Woodland, moderate condition <i>Primary & follow up complete year 1</i>	Core Koala Habitat	Enhance koala habitat by removing weeds in mid and ground stratum which prevent germination of natives, particularly Eucalypts	All strata 95% natives, Eucalypt species germinating	<ul style="list-style-type: none"> ➤ Weed control (working in lines from east to west from the eastern vehicle track adjacent to completed zone n3) Primary: clear around natives, hand weed/cut & paint/overspray Lantana, cut & paint/drill Privet & Camphor & Jacaranda, cut & paint/drill or spot spray Devil's Fig, Tobacco & exotic vines. Spot spray Crofton. Follow up: spot spray as required/to prevent seeding. ➤ Remove rainforest pioneers ➤ Slash vehicle trails

- As this zone is at maintenance stage, the focus of works during 2023 was ensuring that regular spot sprays were conducted in a planned and timely manner to prevent regression.
- KPI's continue to be achieved into 2023 with less than 5% weeds in all strata apart from exotic grasses on the southern access track edge originating from the perimeter of the mine pit.
- Zone n3 comprises dense patches of native grasses Kangaroo Grass (*Themeda australis*), Blady Grass (*Imperata cylindrica*), Tall Sedge (*Carex appressa*) particularly along the southern boundary, previously dominated by exotic species.

Comparison photos zone n3a (Source [REDACTED], December 2023)



North



East



South



West

Zone e5 (photo points e5a, e5b, e5c)

On-site zone	Area	Description & timing	Value	Objective	Performance Indicator	Actions
e5	10.4ha	Tall Open Forest, moderate condition <i>Primary & follow up complete year 1</i>	Core Koala Habitat	Enhance koala habitat by removing weeds in mid and ground stratum which prevent germination of natives, particularly Eucalypts	All strata 95% natives, Eucalypt species germinating	<ul style="list-style-type: none"> ➤ Weed control (working in lines from west to east in a southerly direction): Primary: clear around natives, hand weed/cut & paint/overspray Lantana, cut & paint/drill Privet & Camphor, cut & paint/drill or spot spray Devil's Fig, Tobacco & exotic vines. Spot spray Mistflower & Paspalum. Follow up: spot spray as required/to prevent seeding. ➤ Remove rainforest pioneers in patches/adjacent to eucalypts to improve eucalypt recruitment. ➤ Slash vehicle trails

- Zone e5 is now at maintenance stage, hence the focus of works during 2023 was ensuring that regular spot sprays were conducted in a planned and timely manner to prevent regression. Comparison of current and baseline (2012) photo points confirm that KPI's are achieved with less than 5% weeds in all strata. Eucalypt regeneration (seedlings and saplings) was observed by the author throughout this zone (refer comparison and general photos below), with Kangaroo Grass and Blady Grass dominating the eastern boundary.
- A patch of the recently declared Threatened Species, Native Guava (*Rhodomyrtus psidioides*) was observed coppicing on the ground along the eastern boundary late in 2020 (refer Report Two) and these seedlings continue to grow. The lack of parent trees in the vicinity of this patch may indicate that the seedlings originate from birds perching on a large overhanging Tallowwood. This patch will be monitored by the regeneration crew.
- Die off of vegetation along perimeter track to be monitored and regular maintenance carried out to prevent weeds establishing in the zone

Comparison photos zone e5a (Source [REDACTED], December 2023)



North



East



South



West

Comparison photos zone e5b (Source [REDACTED], December 2023)



North



East



South



West

Comparison photos zone e5c (Source [REDACTED], December 2023)



North



East



South



West

General photos zone e5 (Source [REDACTED], December 2023)



E5 vegetation die off along eastern track



E5 vegetation die off along western track



E5 Tallowwood regeneration

Zone e1 (photo points e1a, e1b)

Off-site zone	Area	Description & timing	Value	Objective	Performance Indicator	Actions
e1	7.8ha	Tall Open Forest, good condition <i>Primary & follow up complete Year 3</i>	Core Koala Habitat	Enhance existing koala habitat by removing weeds in mid and ground stratum which prevent germination of natives, particularly Eucalypts	All strata 95% natives, Eucalypt species germinating	<ul style="list-style-type: none"> ➤ Weed control (working in lines from west to east in a southerly direction): Primary: clear around natives, hand weed/cut & paint/overspray Lantana, cut & paint/drill Privet & Camphor, cut & paint/drill or spot spray Devil's Fig, Tobacco & exotic vines. Spot spray Mistflower & Paspalum but ensure fringing native vegetation around dam is encouraged to prevent cane toad access. Follow up: spot spray as required/to prevent seeding ➤ Remove rainforest pioneers in patches/adjacent to eucalypts to improve eucalypt recruitment³ ➤ Replace existing gate on western boundary for improved access ➤ Install fencing and gate on northern boundary to exclude cattle (approx. 200m) just prior to commencement of work with wildlife friendly fencing ➤ Control minor scattered Lantana north of new fence as gesture of good will or liaise with landowner to ensure controlled ➤ Resolve adjoining landowner [REDACTED] cattle water access needs

- Zone e1 is now at maintenance stage, hence the focus of works during 2023 was ensuring that regular spot sprays were conducted in a planned and timely manner to prevent regression. Comparison of current and baseline (2012) photo points confirm that KPI's are achieved with less than 5% weeds in all strata.

Comparison photos zone e1a (Source [REDACTED], December 2023)



North



East



South



West

Comparison photos zone e1b (Source [REDACTED], December 2023)



North



East



South



West

Zone e2 (photo points e2a, e2b)

On-site zone	Area	Description & timing	Value	Objective	Performance Indicator	Actions
e2	3.5ha	Tall Open Forest, poor condition <i>Primary & follow up complete Year 4</i>	Core Koala Habitat	Enhance koala habitat by removing weeds in mid and ground stratum which prevent germination of natives, particularly Eucalypts	All strata 95% natives, Eucalypt species germinating	<ul style="list-style-type: none"> ➤ Weed control (working in lines from west to east in a southerly direction): Primary: clear around natives, hand weed/cut & paint/overspray Lantana, cut & paint/drill Privet & Camphor, cut & paint/drill or spot spray Devil's Fig, Tobacco & exotic vines. Spot spray Mistflower & Paspalum, including around Dam 1 but ensure fringing native vegetation is encouraged to prevent cane toad access. Follow up: spot spray as required/to prevent seeding particularly Lantana. ➤ Remove rainforest pioneers in patches/adjacent to eucalypts to improve eucalypt recruitment ➤ Install fencing and gate on eastern boundary track to exclude cattle (approx. 350m) just prior to commencement of work with wildlife friendly fencing ➤ Consent from eastern neighbour ([REDACTED] Boorie Creek Rd) for occasional vehicle access to zone via vehicle track has been granted if pre-arranged ➤ Off-site Lantana control to the east and north of the eastern boundary track (approx. 0.5ha) as resources allow

- Zone e2 has entered follow-up stage of works. Ongoing weed control will be needed to ensure weeds do not reestablish and a weed density less than 5% is maintained and the zone can be transitioned to maintenance.

Comparison photos zone e2a (Source [REDACTED], December 2023)



North



East



South



West

Comparison photos zone e2b (Source [REDACTED] December 2023)



North



East



South



West

Zone w4 (photo points w4a)

On-site zone	Area	Description & timing	Value	Objective	Performance Indicator	Actions
w4	1.7ha	Degraded rocky slope and powerlines above plateau of Closed Forest <i>Primary & follow up complete Year 2</i>	EEC TS	Restore EEC by treating weed infestations and prevent dispersal to other zones. Protect and expand TS	All strata 95% natives TS maintained and expanded	<ul style="list-style-type: none"> ➤ Weed control: (utilizing area under powerlines for access with general work direction north and south outwards. Zone w1 may provide access in parts). Primary: Flag and hand weed/cut & paint a buffer zone around TS. Arrowhead is entangled in Lantana below the top edge. Hand pull larger woody Coral Berry, spot spray smaller plants. Skirt the Balloon vine (spray regrowth), clear around natives, cut & paint/drill Privet, overspray Lantana. Consider use of splatter gun for Lantana on rocky slope from top edge. Overspray smaller Devil's Fig. Drill taller Devil's Fig. Follow up: spot spray as required/to prevent seeding particularly Coral Berry and Balloon Vine. Ensure powerlines slashed. ➤ Identify western and northern boundary with flagging tape

- Zone w4 is problematic and challenging with very rocky terrain, which is difficult to traverse. It contains powerlines above weed infestations not receiving any visits by the powerline maintenance crew and the threatened species Arrowhead Vine (*Tinospora tinosporoides*) tangled up in exotic vines. In addition, the bulk of this zone comprises a very steep slope of large, unstable boulders. Monitoring Report Two indicated that the principle of adaptive management may require plantings of supplementary figs to secure the boulders on the slope into the future. Approximately 20 Rusty Figs (*Ficus rubignosa*) were propagated by F. Dawson, from seed sourced from Firewheel Rainforest Nursery and planted in Autumn 2021 into a variety of rocky areas, on boulders and within drilled camphors and privets (Refer Figure 1). As indicated in the BRP (Dawson, 2018), this species also occurs on large boulders in zone w3. 90% success rate with Figs establishing
- This zone is approaching the KPI of less than 5% weeds in all strata apart from exotic grasses along the road edge due to its proximity to weed
- sources from adjacent unworked zones. Refer Table 2 for additional species identified in this zone.

Comparison photos zone w4a (Source [REDACTED], December 2023)



North



East



South



West

General photos w4 (Source [REDACTED], December 2023)



W4 regeneration under powerlines

Zone w1 (photo points w1a, w1b)

Off-site zone	Area	Description & timing	Value	Objective	Performance Indicator	Actions
w1	2.3ha	Tall Open Forest, moderate condition Primary & follow up complete Year 8	Core Koala Habitat TS	Enhance existing koala habitat by removing weeds in mid and ground stratum which prevent germination of natives, particularly Eucalypts. Expand koala habitat by excluding cattle and allowing Forest Red Gum and other natives to regenerate naturally. Protect and expand Thorny Pea.	All strata 95% natives, Eucalypt species germinating Cattle pasture replaced with natives particularly Forest Red Gum TS patches maintained and expanded	➤ Weed control (commencing from plateau at top of slope on eastern side of quarry access road working in lines from north to south in a westerly direction across road and downslope. Install fencing before crossing road): Primary: Flag and hand weed/cut & paint a buffer zone around TS. Clear around other natives (in particular skirting around FRG to allow access for koalas) to prepare for drilling with generator for larger camphor & privet. Hand weed/cut & paint/overspray Lantana, cut & paint/drill smaller Privet & Camphor, cut & paint/drill or spot spray Devil's Fig, Tobacco & Crofton. Spot spray weeds in cattle pasture area particularly those adjacent to regenerating FRG. Consider staking/guarding some of the FRG seedlings to assist with monitoring progress and prevent possible wallaby damage. Follow up: spot spray as required/to prevent seeding. ➤ Remove rainforest pioneers in patches/adjacent to eucalypts to improve eucalypt recruitment. ➤ Identify eastern and northern boundaries with flagging tape ➤ Ensure area below powerlines slashed (Devil's Fig infestation) ➤ Prior to works commencing on western side of quarry road, install wildlife friendly fencing and gate on western boundary to exclude cattle (approx. 150m) using existing fencing running W-E to section off ➤ Obtain consent for vehicle access to lower pastures from owner (██████████ Keerrong Rd) ➤ Off-site weed control west of boundary fencing as resources allow

- Primary work commenced in November 2023

Comparison photos zone w1a (Source [REDACTED], December 2023)



North



East



South



West

Comparison photos zone w1b (Source [REDACTED], December 2023)



North



East



South



West

Zone s1 (photo points s1a, s1b)

Off-site zone	Area	Description & timing	Value	Objective	Performance Indicator	Actions
s1	5.7ha	Tall Open Forest and Tall Open Forest/Woodland in moderate condition above degraded cattle pasture Primary & follow up complete Year 10	Koala habitat linkage TS	Enhance existing koala habitat by removing weeds in mid and ground stratum which prevent germination of natives, particularly Eucalypts. Expand koala habitat by excluding cattle and allowing food tree species to regenerate naturally and/or in-fill with scattered plantings of Primary KFT species. Protect and expand Thorny Pea	All strata 95% natives, Eucalypt species germinating Cattle pasture replaced with natives particularly eucalypts TS patches maintained and expanded	➤ Weed control (commence SE corner via quarry vehicle track leading to the south pit working in lines downslope in a westerly direction – repeat from NW corner); Primary: Flag and hand weed/cut & paint a buffer zone around TS. Clear around other natives to prepare for drilling with generator for larger camphor & privet. Hand weed/cut & paint/overspray Lantana, cut & paint/hand-drill smaller Privet & Camphor, spot spray Mistflower, Crofton & exotic grasses but ensure fringing native vegetation is encouraged around dam to prevent cane toad access. Basal bark Guava infestations. Follow up: spot spray as required/to prevent seeding ➤ Fence off/flag dangerous old mine shaft ➤ Install fencing/gate on western boundary to exclude cattle (approx. 360m) just prior to commencement of work. Consider using existing fencing running W-E to section off in stages. ➤ investigate potential access to west/south zone via western neighbour ➤ Identify eastern and northern boundaries with flagging tape ➤ Consider scattered in-fill plantings of koala food tree species if weed control does not result in eucalypt germination

- Restricted Primary work commenced in 2020 with the installation of a new boundary fence, in 2024 work will be expanded to encompass the whole zone

Comparison photos zone s1a (Source [REDACTED], December 2023)



North



East



South



West

Comparison photos zone s1b (Source [REDACTED], December 2023)



North



East



South



West

Table 2 Additional species identified post BRP

(source F. Dawson)

Zone w4, 2020	Family	Scientific name	Common name	TS
TREES & SHRUBS	Apocynaceae	<i>Carissa spinarum</i>	Carissa	
	Asteliaceae	<i>Cordyline spp.</i>	Palm Lily spp.	
	Atherospermataceae	<i>Daphnandra apetalata</i>	Socketwood	
	Cannabaceae	<i>Aphananthe philippinensis</i>	Rough leaved Elm	
	Cannabaceae	<i>Trema tomentosa</i>	Poison Peach	
	Ebenaceae	<i>Diospyros australis</i>	Black Plum	
	Ebenaceae	<i>Diospyros pentamera</i>	Myrtle Ebony	
	Fabaceae	<i>Parachidendron pruinosum</i>	Snow Wood	
	Fabaceae	<i>Pedleya acanthoclada</i>	Thorny Pea	y
	Lauraceae	<i>Cryptocarya laevigata</i>	Glossy laurel	
	Lauraceae	<i>Cryptocarya obovata</i>	Pepperberry	
	Lauraceae	<i>Endiandra muerelli sp.</i>	Green-leaved Rose Walnut	
	Lauraceae	<i>Endiandra pubens</i>	Hairy Walnut	
	Meliaceae	<i>Dysoxylum mollissimum</i>	Red Bean	
	Meliaceae	<i>Dysoxylum rufum</i>	Hairy Rosewood	
	Meliaceae	<i>Toona ciliata</i>	Red Cedar	
	Moraceae	<i>Ficus fraseri</i>	Sandpaper Fig	
	Moraceae	<i>Ficus rubignosa</i>	Rusty Fig	
	Moraceae	<i>Streblus brunonianus</i>	Whalebone	
	Pittosporaceae	<i>Pittosporum multiflorum</i>	Orange Thorn	
	Putranjivaceae	<i>Drypetes deplanchei</i>	Grey Boxwood	
	Rubiaceae	<i>Ixora beckleri</i>	Native Ixora	

Rutaceae	<i>Acronychia oblongifolia</i>	White Aspen
Rutaceae	<i>Citrus australasica</i>	Finger lime
Rutaceae	<i>Pentaceras australe</i>	Bastard Crow's Ash
Sapindaceae	<i>Diploglottis australis</i>	Native tamarind
Sapindaceae	<i>Elattostachys nervosa</i>	Green tamarind
Sapindaceae	<i>Harpullia pendula</i>	Tulipwood
Urticaceae	<i>Dendrocnide photinophylla</i>	Shiny-leaved Stinging Tree
Urticaceae	<i>Pipterus argenteus</i>	White Nettle

VINES

Apocynaceae	<i>Hoya australis</i>	Native Hoya
Apocynaceae	<i>Parsonsia straminea</i>	Common Silkpod Vine
Arecaceae	<i>Calamus muelleri</i>	Lawyer Vine
Aristolochiaceae	<i>Aristolochia praevenosa</i>	Birdwing Butterfly Vine
Bignoniaceae	<i>Pandorea pandorana</i>	Wonga Vine
Fabaceae	<i>Austrosteenisia sp.</i>	Blood Vine
Fabaceae	<i>Derris involuta</i>	Native Derris
Flagellariaceae	<i>Flagellaria indica</i>	Whip Vine
Menispermaceae	<i>Sarcopetalum harveyanum</i>	Pearl Vine
Menispermaceae	<i>Tinospora tinosporoides</i>	Arrow-head Vine
Vitaceae	<i>Cissus hypoglauca</i>	Five-leaved Water Vine
Vitaceae	<i>Cissus antartica</i>	Water Vine

Zone e1, 2021	Family	Scientific name	Common name	TS
TREES & SHRUBS	Rutaceae	<i>Acronychia baeuerlenii</i>	Byron Bay Acronychia	
HERBS	Acanthaceae	<i>Brunoniella australis</i>	Blue Trumpet	
	Asparagaceae	<i>Thysanotus tuberosus</i>	Common Fringe Lily	
	Convolvulaceae	<i>Polymeria calycina</i>	Slender Bindweed	
	Lamiaceae	<i>Ajuga australis</i>	Austral Bugle	
	Violaceae	<i>Viola betonicifolia</i>	Showy Violet	

References

Conacher Environmental Group (CEG). (2006). Blakebrook Quarry: Koala Plan of Management. Lismore, NSW

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ERM. (2018). Blakebrook Quarry Biodiversity Offset Strategy.

Standards Reference Group SERA. (2021). National Standards for the Practice of Ecological Restoration in Australia Edition 2.2. Society for Ecological Restoration Australasia.

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Appendix AA

CCC Meeting Minutes

Present: Chairperson, Head of COO – Shared Services, Acting Head of Roads and Quarry, Quarry Operations Coordinator, Acting Compliance Coordinator, Compliance Officer, Compliance Support Officer
Resident 1, Neighbour 7

Apologies: Manager Operational Compliance, Neighbour 1

WELCOME

The meeting was opened at 4.02pm by the Chairperson and all members welcomed. Chairperson informed members of updated Community Consultative Committee Guidelines (June 2023) and requirement for members to complete the Declaration of Interest form and Code of Conduct.

PREVIOUS MINUTES

Overview of previous meeting and minutes were accepted as being true and correct.

BUSINESS ARISING FROM PREVIOUS MEETING

Extraordinary meeting was held 16/02/2023 to address concerns held over from 01/12/2022 CCC meeting.

Nimbin roadworks material – Acting Head of Roads and Quarry advised the committee there is a nominal amount of material remaining.

Additional Vibration Monitoring [REDACTED] Keerrong Road completed. Resident 1 asked who requested the monitoring, with Quarry Operations Coordinator advising it was at the Resident's request.

Domesticated dog roaming management, Council to liaise with LCC Rangers – committee was informed LCC Rangers have no jurisdiction over wild dogs. If landholders capture or can immediately report roaming domestic dogs to LCC then Rangers can attend site and assist within reason (operating hours).

Complaints Register – Council has specified reference to 31/5/2022 blast on online complaints register.

Koala data request for resident has been completed.

BUSINESS ARISING FROM EXTRAORDINARY MEETING 16/2/2023

Property investigation Report [REDACTED] submitted to DPE 28/02/2023 – The matter has been closed out by DPE. Council continues to closely monitor contractor performance. Resident 1 advised the committee she has many questions to ask in relation to this and will be happy to wait to discuss at the end of the meeting.

Council webpage has been updated to a new platform and is now more user friendly.

CORRESPONDENCE

Condolence letter (April 2023) was sent to [REDACTED] and family on the sad passing of [REDACTED].

GENERAL BUSINESS

Council organisational restructure

Head of COO Shared Services introduced himself and Head of Roads and Quarry, followed by a brief explanation of the Council restructure that has just been implemented. Shared Services is a broad unit in which Quarry and Compliance overlap.

Production and material demand

Acting Head of Roads and Quarry advises business continues as usual. Product for flood recovery is slow. The Quarry has been very busy all year trying to meet the quality and tonnage demands for the LGA road network and has been providing good results. Production is based on supply and demand.

Blasting

Five (5) blasts in 2023. Good results for product and monitoring results were all within limits.

Asphalt Lease

Acting Head of Roads and Quarry advises negotiations continue between parties. Hopefully to be finalised early next year.

Environmental Monitoring

An update was provided by the Acting Compliance Coordinator advising that:

- Dust monitoring in October at one location had an exceedance due to environmental contaminants and seasonally dry weather. Council self-reported to EPA and DPA – no further action required, and the matter has been closed out.
- Noise monitoring is undertaken twice per year during Winter and Summer (instead of annually). An exceedance was noted during winter – resulting in additional supplementary monitoring (undertaken in August 2023). Report was sent to the landowner, DPE and EPA – no further action required, and the matter has been closed out.
- A slight elevation in groundwater results in 2022 due to environmental conditions relating to excessive rainfall. An exceedance of water quality trigger limits does not constitute a non-conformance as there is a 20% buffer of target limits each monitoring round. Results are assessed over 3 consecutive monitoring rounds to determine compliance with limits. Council self-reported to EPA and DPA, no further action required, and the matter has been closed out.

Site Maintenance

- Wild dog baiting commenced between a few neighbours and is running from September 2023 to March 2024. A third round of baits have been laid at the Quarry to date. Results from other landowners is not known.
- Bushland regeneration - the Quarry has different work zones which are managed on a month-by-month basis by a Bush Regen contractor. Works continue and are on schedule.

Inspection & Audits

- Onsite visit from DPE in March 2023. No major concerns raised with the site, reminder to stay on top of weed control. Onsite visit from EPA in May 2023. No major concerns raised – reminder to update signage at the sed basin. Onsite visit from Resources Regulator in June 2023. Quarry Operations Coordinator advising it was a desktop audit and site inspection. There were two

technical documents that were requested to be reviewed and updated. This has been completed and the reports submitted to the Resources Regulator. Council is waiting on their response.

Complaints

- One complaint was received from a resident in March 2023 as less than 24 hours' notice was given prior to a blast. Council self-reported to EPA and DPA – no further action required, and the matter has been closed out. An Official Caution letter was issued by DPE to Council.

Integrated Management System (IMS)

- IMS was recently audited in October for Quality, Safety and Environmental ISO Standards. The Quarry has been recertified for the next 3 years, with a pleasing overall result of 3 observations and 4 minor non-conformances involving administrative actions.

Annual Environmental Monitoring Report 2022 (AEMR)

- This is an annual, high level compliance review of all licence conditions. A total of seven (7) non compliances occurred throughout the year, with five (5) non compliances being actioned and closed out during 2022. The 2022 AEMR noted a high level of compliance with all conditions and records, and was submitted to DPE March 2023, and subsequently accepted.

ADDITIONAL BUSINESS:

The Chairman opened the meeting for any other matters or concerns to be raised. Resident 1 asked the Chairman if he is required to provide an annual report to DPE. The Chairman advised this is undertaken through the AEMR process, where he is contacted by auditors to provide commentary surrounding any issues within the CCC and regarding its effectiveness for the community.

Resident 1 raised other items not considered connected with the Consultative Committee, as such the CCC meeting was closed at 4:45pm.

The Chairman moved on from the meeting to allow Resident 1 to discuss concerns, which are summarised below:

- the validity of blast monitoring reporting and querying the blast design process relating to weather conditions
- the level of redaction within documents that are sent to Regulators.
- how reported damage to Council has been treated over time.
- dispute with the Property Investigation Report and integrity of Consultant's data.
- how members of the community can voice their concerns to Council.
- to raise the issues of blast property damage as one of the property owners that have been affected.

This additional meeting closed at 5.45 pm and minutes are attached as an addendum.

Meetings are scheduled annually.

ACTION	ACTION OUTCOME	BY WHOM & WHEN
CCC Guidelines – June 2023	Council to distribute June 2023 CCC Guidelines with minutes	Council – 21/12/2023

Present: Chairperson, Head of COO Shared Services, Acting Head of Roads and Quarry, Quarry Operations Coordinator, Acting Compliance Coordinator, Compliance Officer, Compliance Support Officer

Apologies: Resident 1, Neighbour 7
Manager Operational Compliance, Neighbour 1

Time 4.45pm

Addendum minutes following CCC meeting: Concerns raised from Resident 1.

Chairman asked the Committee if there were additional concerns to discuss:

Resident 1 noted that they had a number of items to go through relating to:

- the validity of blast monitoring reporting and querying the blast design process relating to weather conditions
- the level of redaction within documents that are sent to Regulators
- how reported damage to Council has been treated over time
- dispute with the Property Investigation Report and integrity of consultants data
- how members of the community can voice their concerns to Council
- to raise the issues of blast property damage as one of the property owners that have been affected

Resident 1 spoke at great lengths to describe in detail all of their concerns and was provided a considerable amount of time to discuss. They raised questions to staff in attendance throughout these discussions. Some responses from staff were able to be given at the time, however reference to audit reports, correspondence to DPE and EPA and consultant reports without the documents being available at the time of the meeting restricted a comprehensive response being provided.

Resident 1 questioned the validity of blasting equipment and reports, questioned the selection of consultants used, stated her disagreement with auditors comments within reports to the DPE, also alleging the accuracy of a Property Investigation Report to the DPE “was wrong”. Resident 1 stated they disagreed with the Property Investigation Report and asked if Council had seen their feedback. Acting Compliance Coordinator made comment that DPE did not provide the feedback to Council, only that Council was notified the matter had been closed out by DPE. Resident 1 spoke about the blasting and asked the Quarry Operations Coordinator if they were able to change the design of a blast and if consideration is given to soil saturation in the local area prior to a blast. The response was that the blast contractor is the only one able to determine blast design and appropriate weather conditions etc.

Resident 1 questioned the redaction in the AEMR 2022 attachment – Complaints Register, stating that their name and Resident 2 names were listed, while other names throughout the document were redacted. An explanation was provided by Acting Compliance Coordinator that redacting names and addresses was not a requirement and was undertaken as a matter of courtesy to neighbours as this is a smaller community as opposed to larger State Projects (eg: Sydney). Also dedicated monitoring locations were identified in operational documents and reports and have a

dedicated identifier for that address. Additional monitoring locations (as requested at Resident 1 and Resident 2 property's) did not have any other identifier (ie: location number). It was noted that DPE and EPA have asked on numerous occasions why Council are redacting information, as the Quarry documents are to mirror the records they hold to ensure transparency of the document in its entirety. Acting Compliance Coordinator took on notice and committed to have a look at the AEMR 2022 report and get back in touch with Resident 1.

Resident 1 stated there were neighbours in the vicinity that had concerns regarding Council yet were afraid of making a complaint. Resident 1 referred to a situation in 2008 where they stated Council covered the cost of alleged damages to their home and in more recent years, some other residents homes. Resident 1 produced a photocopy of photo's of ceiling and walls, stating this was from another residence however there were no details or dates to ascertain when the photo's were taken or if the residence is in the vicinity of Blakebrook. The comments regarding financial settlement being provided by Council were rebutted by staff in attendance and stated that it is inappropriate for this to occur. The Acting Compliance Coordinator outlined there is a high level of transparency on Council and due diligence needs to be followed regarding any complaint of property damage. This process was followed for the Property Investigation process and the Report found that no damage had been caused by blasting, with the matter being closed out by DPE.

Resident 1 queried the complaints process for Council. Acting Compliance Coordinator replied the Quarry web page lists the phone number for Council if a resident is wanting to provide feedback (positive or negative) on an issue. This was updated earlier in 2023 following Council's web page upgrade, where Quarry information and documents were repositioned (as suggested from the Extra Ordinary meeting in February 2023) to allow the web page to be more user friendly.

The Chairman spoke generally about the Quarry needing to operate within the community and the services it provides for the LGA as a whole. Also recognising Councils requirements in using various contractors that it can be hard to determine levels of quality and service through the procurement/tender process alone. The Quarry Operations Coordinator agreed with that statement, with Head of Roads and Quarry saying the tender process is being reviewed.

The Chairman summarised his thoughts on the concerns that had been raised (as listed above) and reiterated the scope of the CCC is not a decision-making body but to allow discussion on issues, therefore did not feel the CCC forum was able to resolve anything for Resident 1. The Chairman suggested it might be better to follow up the issues with Council. Resident 1 responded that they believed Council would not continue with an avenue for communication.

The Chairman called the meeting to a close at 5.45pm.

ACTION	ACTION OUTCOME	BY WHOM & WHEN
Review AEMR 2022 Complaints Register appendix regarding redacted information	Resident names listed on Complaints Register redacted. Resident 1 contacted by phone and email to discuss and provide updated outcome. AEMR 2022 on Council website updated	Council – 10/12/2023 Completed

Appendix BB

Access to information

Information to be provided on LCC website as per Schedule 5 Condition 14

Schedule 5 Condition 14 Description	Available on LCC Website 03/03/2023?
(Reference) Document Title	
<i>the documents listed in condition 2(a) of Schedule 2;</i>	
Environmental Assessment ¹	Y
Environmental Assessment (Mod 1) ²	Y
<i>current statutory approvals for the project;</i>	
Part 3A Approval No.07_0020 (Mod 3)	Y
EPA Licence 3384	Y
<i>all approved strategies, plans and programs required under the conditions of this approval;</i>	
(Sch 3.Cond. 5) Noise Management Plan	Y
(Sch. 3 Cond. 9) Blast Management Plan	Y
(Sch. 3 Cond. 9) Mine Safety Management Plan	Y
(Sch. 3 Cond. 12) Air Quality Management Plan	Y
(Sch. 3 Cond. 19) Soil and Water Management Plan	Y
(Sch. 3 Cond. 19) Groundwater Monitoring and Management Sub Plan	Y
(Sch. 3 Cond. 19) Pollution Response Management Plan	Y
(Sch. 3 Cond. 23) Traffic Management Plan	Y
(Sch. 3 Cond. 24) Aboriginal Heritage Management Plan	Y
(Sch. 3 Cond. 28) Biodiversity and Rehabilitation Management Plan	Y
(Sch. 3 Cond. 28) Biodiversity Strategy	Y
(Sch. 5 – Cond. 1) Environmental Management Strategy	Y
<i>a comprehensive summary of the monitoring results of the project, reported in accordance with the specifications in any conditions of this approval, or any approved plans and programs;</i>	
Blast Reports – 2023	Y
Noise Monitoring Reports – 2023	Y
Dust Monitoring Summary Results – 2023	Y
Ground Water Monitoring Results – 2023	Y
Surface Water Monitoring Results – 2023	Y
Water Discharge Report – 2023	N
<i>a complaints register, updated monthly;</i>	Y
<i>the annual reviews of the project;</i>	
Annual Environmental Monitoring Report 2012	Y
Annual Environmental Monitoring Report 2013	Y
Annual Environmental Monitoring Report 2014	Y
Annual Environmental Monitoring Report 2015	Y
Annual Environmental Monitoring Report 2016	Y



Schedule 5 Condition 14 Description	Available on LCC Website 03/03/2023?
<i>(Reference) Document Title</i>	
Annual Environmental Monitoring Report 2017	Y
Annual Environmental Monitoring Report 2018	Y
Annual Environmental Monitoring Report 2019	Y
Annual Environmental Monitoring Report 2020	Y
Annual Environmental Monitoring Report 2021	Y
Annual Environmental Monitoring Report 2022	Y
<i>any independent environmental audit as described in condition 12;</i>	Y
<i>the Proponent's response to the recommendations in any audit;</i>	Y
<i>any other matter required by the Secretary; and</i>	
Truck Dispatch Times	Y
Community Consultative Committee meeting minutes	Y
(b) keep this information up-to-date, to the satisfaction of the Secretary.	

¹ *Blakebrook Quarry Expansion, Environmental Assessment Report, Final Report*, January 2009, and the Proponent's response to submissions titled *Blakebrook Quarry Expansion, Response to Submissions, Final Report*, August 2009

² Environmental Assessment titled *Blakebrook Quarry Modification Application*, August 2017