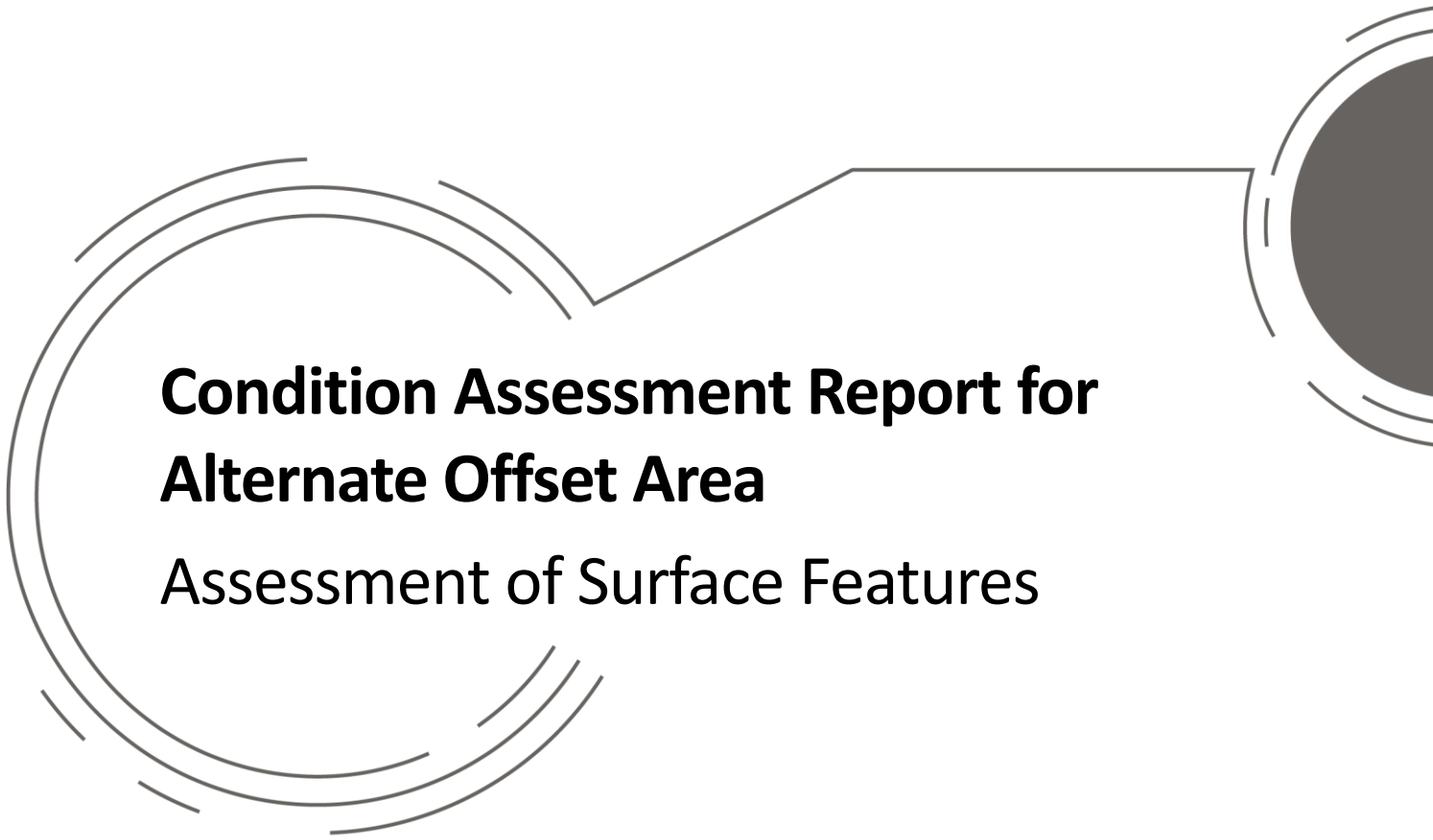


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# Condition Assessment Report for Alternate Offset Area

## Assessment of Surface Features

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## Executive Summary

The Ulan Coal Mine Pty Limited (UCMPL) Project Approval (PA) 08\_0184 (as modified) and Federal EPBC approval (EPBC 2009/5252), granted in 2010 are subject to conditions requiring biodiversity offset areas to compensate for impacts from the project to be secured in perpetuity. EPBC 2009/5252 also requires that if (UCMPL) are unable to secure the offset areas relevant to EPBC 2009/5252, UCMPL must submit an alternative offset proposal, for the Ministers approval by 30 January 2021.

All offsets have been secured in perpetuity, with the exception of the 10 hectare portion of BCA – Area 2 (privately owned portion of Brokenback Conservation Area), for which UCMPL were unable to reach agreement with the land owner, due to the complex and far reaching requirements that are now understood as expectations of such agreements.

UCMPL have proposed an alternative offset to BCA – Area 2, hereafter referred to as the ‘Alternative Offset Area’.

UCMPL engaged Eco Logical Australia Pty Ltd (ELA) to complete a suitability assessment of the proposed Alternative Offset Area as a suitable replacement for the privately owned portion of BCA – Area 2. ELA’s assessment includes vegetation community, fauna, cliff line habitat validation and subsidence related impacts as a result of historical longwall mining activities by UCMPL underneath the proposed Alternate Offset Area.

This suitability assessment was commissioned in order that UCMPL can seek agreement from the Federal Department of Agriculture, Water and Environment for the Alternative Offset Area, and then apply to NSW Department of Planning, Infrastructure and Environment to modify PA 08\_0184, to allow for use of the proposed Alternative Offset Area.

As a component of the suitability assessment, UCMPL have prepared this *Condition Assessment Report for the Alternate Offset Area* (this Report). This Report provides a consolidation of recorded subsidence impacts within the proposed Alternate Offset Area with regards to both cliff lines and flow lines to demonstrate the suitability of the proposed area. This Report also presents the results of subsidence monitoring assessments completed by UCMPL specialist subsidence engineer (SCT Operations Pty Ltd) for LWW3, LWW4 and LW5.

# 1. Introduction

Ulan Coal Mines Pty Limited (UCMPL) are proposing an Alternative Offset Area, to replace the privately owned portion of Brokenback Conservation Area - Area 2 (BCA - Area 2) (**Figure 1**).

The proposed Alternative Offset Area has been previously directly undermined by UCMPL in 2016 and 2017, by two longwalls LWW3<sup>1</sup> and LWW4<sup>1</sup> respectively. Secondary extraction of LWW3 commenced in May 2016 and was completed in July 2017. Secondary extraction of LWW4 commenced in September 2017 and was completed in December 2018. No further mining directly under the proposed Alternative Offset Area has occurred since LWW4.

Longwall mining immediately adjacent to the southern boundary of the Alternative Offset Area occurred in December 2018, with the commencement of LW5<sup>2</sup> secondary extraction.

UCMPL have engaged Eco Logical Australia Pty Ltd (ELA) to complete a suitability assessment of the proposed Alternative Offset Area as a suitable replacement for the privately owned portion of BCA – Area 2. This assessment includes vegetation community, fauna, cliff line habitat validation and subsidence related impacts as a result of historical longwall mining activities undertaken by UCMPL.

To assist ELA with their assessment of the proposed Alternative Offset Area, UCMPL have prepared this *Condition Assessment Report for the Alternate Offset Area* (this Report). This Report provides a consolidation of recorded subsidence impacts within the proposed alternate offset area with regards to both cliff lines and flow lines. This Report also presents the results of the end of longwall panel assessments completed by UCMPL specialist subsidence engineer, SCT Operations Pty Ltd (SCT) for LWW3, LWW4 and LW5 (**Section 8**).

UCMPL undertake pre-mining and post mining monitoring of surface features above each approved longwall mining areas for both the Ulan West Underground Mine (Ulan West) and Ulan Underground Mine (UUG) as required by their respective Extraction Plan<sup>3</sup> (**Figure 2**). Photographic monitoring of surface features is a key requirement in the Extraction Plan to qualitatively assess for subsidence related impacts.

## 1.1 Regulatory Requirements

The UCMPL Project Approval (PA) 08\_0184 (as modified) and Federal EPBC approval (EPBC 2009/5252), granted in 2010 are subject to conditions requiring biodiversity offset areas to compensate for impacts from the project to be secured in perpetuity. EPBC 2009/5252 also requires that if (UCMPL) are unable to secure the offset areas relevant to EPBC 2009/5252, UCMPL must submit an alternative offset proposal, for the Ministers approval by 30 January 2021. The following offset areas were proposed to compensate for impacts to biodiversity from the project:

- Spring Gully Cliffline Management Area
- Brokenback Conservation Area (BCA)– inclusive of BCA – Area 1 (UCMPL owned), BCA – Area 2 (privately owned) and Brokenback Conservation Reserve- Area 3 (located on Crown Land)
- Bobadeen Vegetation Offset Area and Bobadeen East Corridor, and
- Hihett Road Acacia ausfeldii (Ausfeld’s Wattle) Management Area.

<sup>1</sup> Extraction of LWW3 and LWW4 undertaken by Ulan Underground Mine (UUG)

<sup>2</sup> Extraction of LW5 undertaken by Ulan West Mine (Ulan West)

<sup>3</sup> Preparation of an Extraction Plan as required by PA08\_0184 Schedule 3, Condition 26

The offsets are secured in perpetuity, with the exception of the 10 hectare portion of BCA – Area 2 (privately owned portion of Brokenback CA), for which UCMPL were unable to reach agreement with the land owner, due to the complex and far reaching requirements that are now understood as expectations of such agreements. UCMPL have proposed an alternative offset to BCA – Area 2, hereafter referred to as the ‘Alternative Offset Area’. This assessment was commissioned in order that UCMPL can seek agreement of the Federal Department of Agriculture, Water and Environment for the Alternative offset area, and then apply to modify PA 08\_0184 to allow for use of the proposed Alternative offset area.

## 2. Purpose

UCMPL have prepared this *Condition Assessment Report for the Alternate Offset Area* (this Report) of recorded subsidence impacts within the proposed alternate offset area of cliff lines and flow lines as recorded by UCMPL during pre-mining and post mining inspections.

The pre-mining inspections by UCMPL for LWW3, LWW4 and LW5 occurred on the 6/04/2016, 25/05/2017 and 30/10/2018 respectively.

Post mining inspections by UCMPL for LWW3 occurred 22/12/2016, 17/10/2017 and 6/01/2021. Post mining inspections by UCMPL for LWW4 occurred 25/10/2018 and 6/01/2021. Post mining inspections by UCMPL for LW5 occurred 06/02/2020 and 7/01/2021.

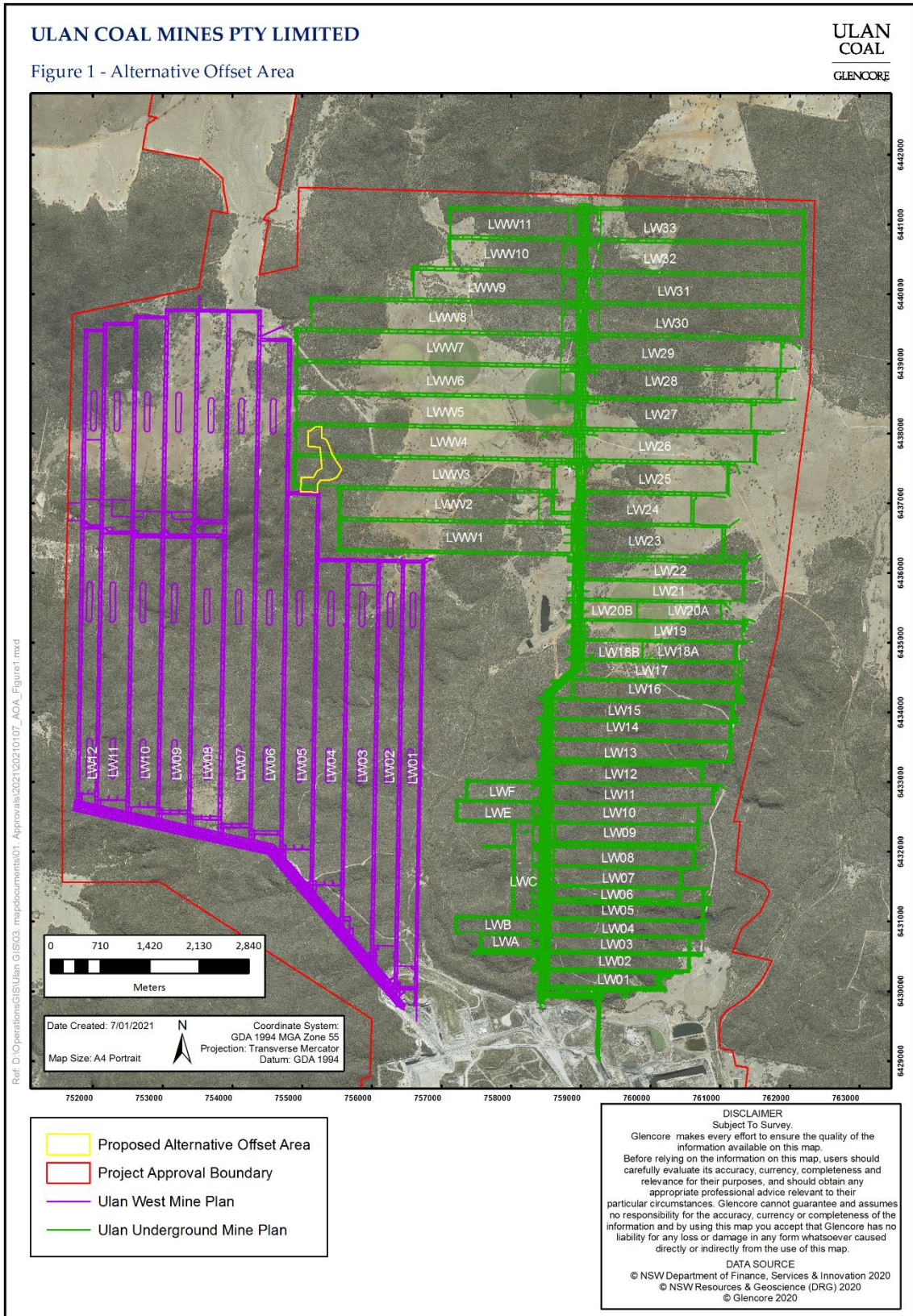
The purpose of this Report is to demonstrate the suitability of the proposed Alternate Offset Area, in particular the habitable features of cliff lines and stability of flow lines, given this area has been previously undermined by longwall mining activities.

## 3. Scope

The scope of this Report applies to the those cliff lines<sup>4</sup> and flow lines identified for monitoring in each Extraction Plan, within the proposed Alternate Offset Area above those portions of land previously mined by longwall panels LWW3, LWW4 and LW5.

<sup>4</sup> As identified by the Extraction Plan as generally greater than 10m in height

Figure 1 Location of Alternate Offset Area



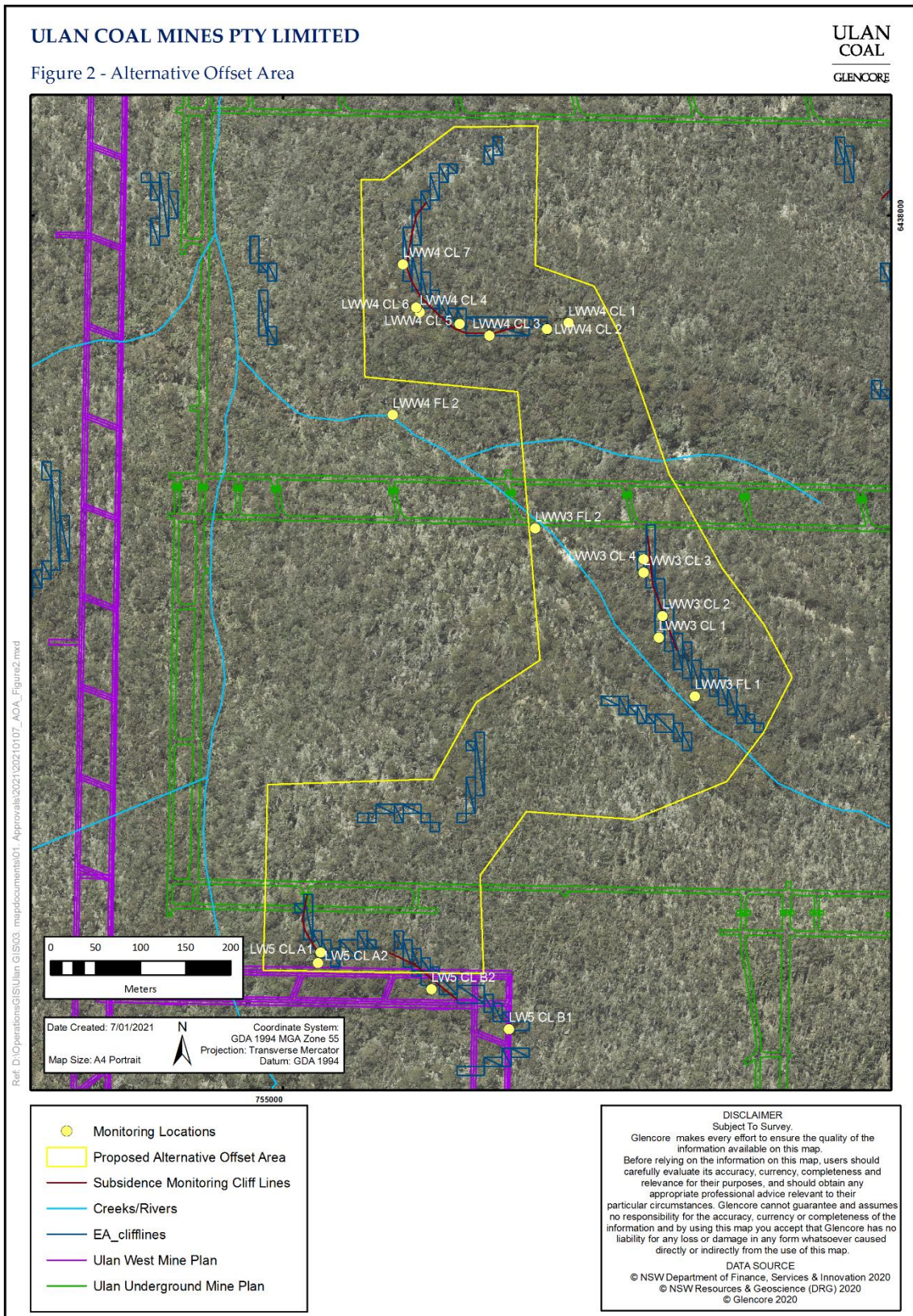
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Figure 2 – Cliff Line & Flow Line Subsidence Monitoring Locations



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## 4. Cliff Lines LWW3

### 4.1 Cliff Lines (LWW3 – Site 1)



Number: ULNCX-1862890609-3

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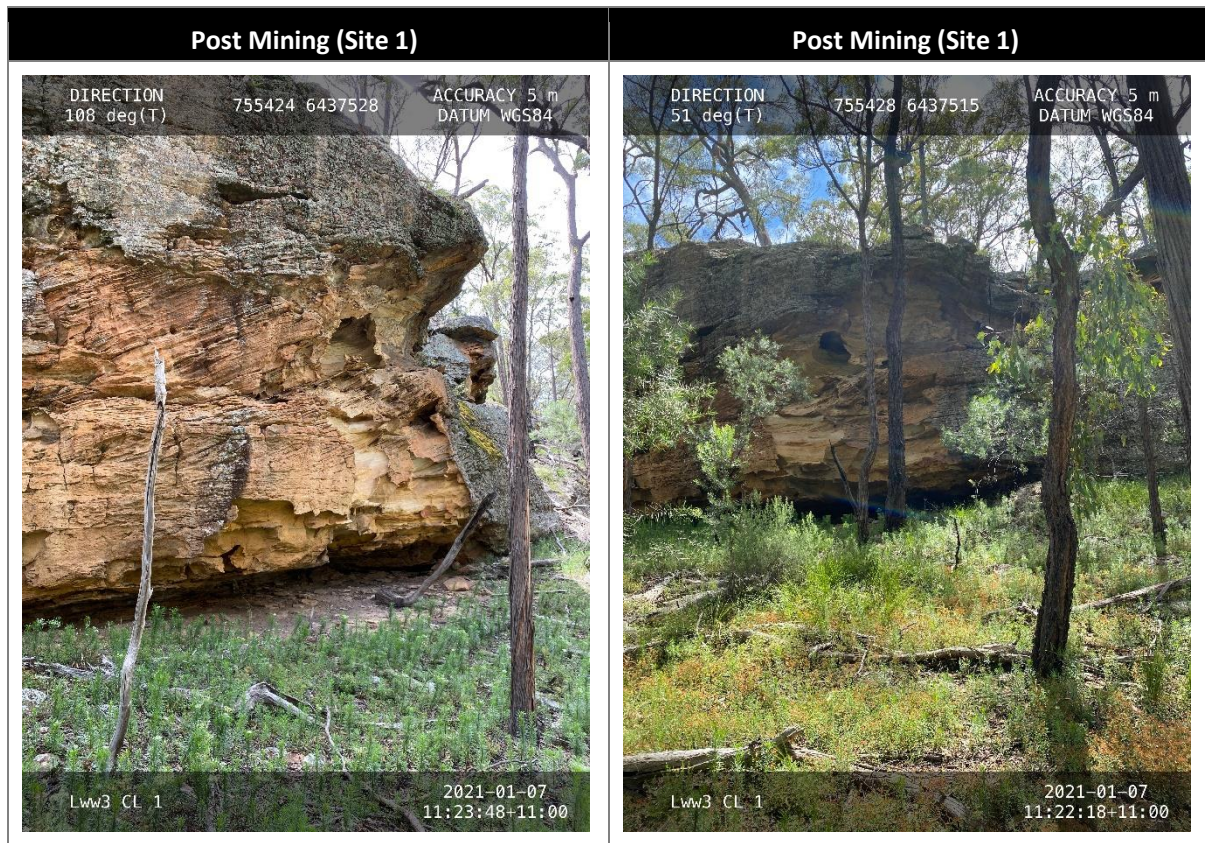
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Version: [Document Version (Office)]

Review: [Planned Review Date]

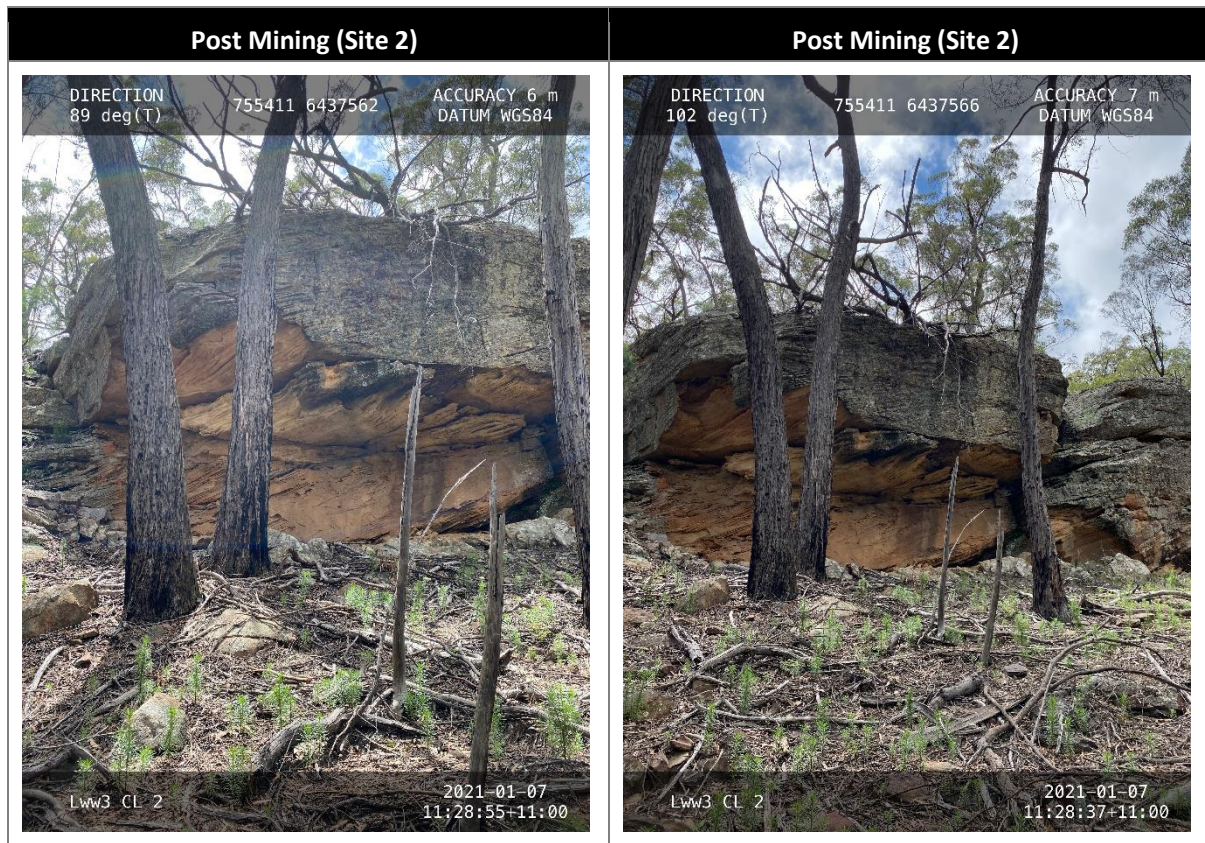
Page 9 of 53



**Notes:** No perceptible change (as a result of subsidence) from pre-mining condition noted at the time of the post mining inspections.

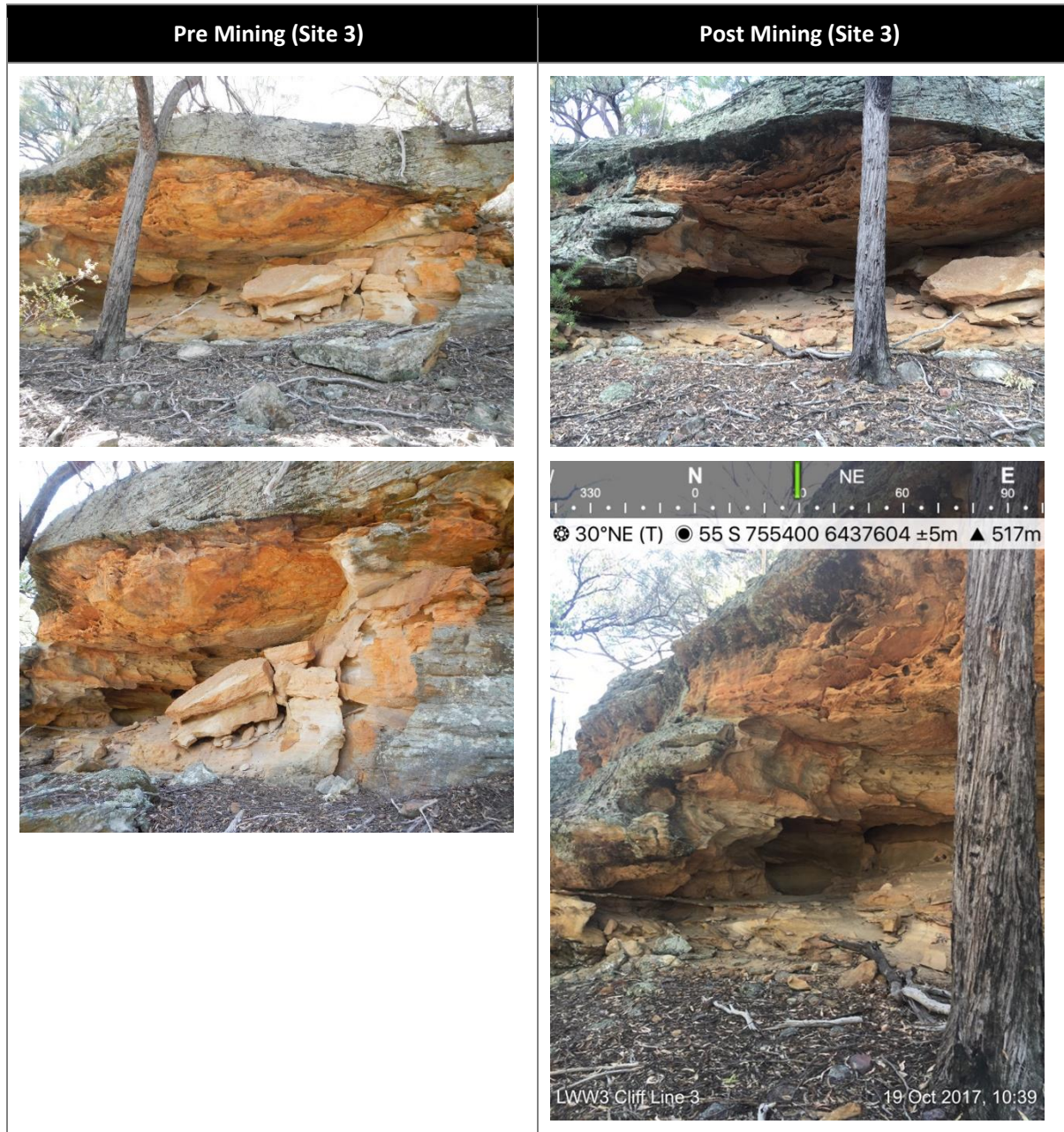
## 4.2 Cliff Lines (LWW3 – Site 2)

Pre Mining (Site 2)	Post Mining (Site 2)
<p>Photos Not Available</p>	 <p>LWW3 Cliff Line 24</p> <p>19 Oct 2017, 10:47</p>



**Notes:** No perceptible change (as a result of subsidence) from pre-mining condition noted at the time of the post mining inspections.

### 4.3 Cliff Lines (LWW3 – Site 3)





**Notes:** No perceptible change (as a result of subsidence) from pre-mining condition noted at the time of the post mining inspections.

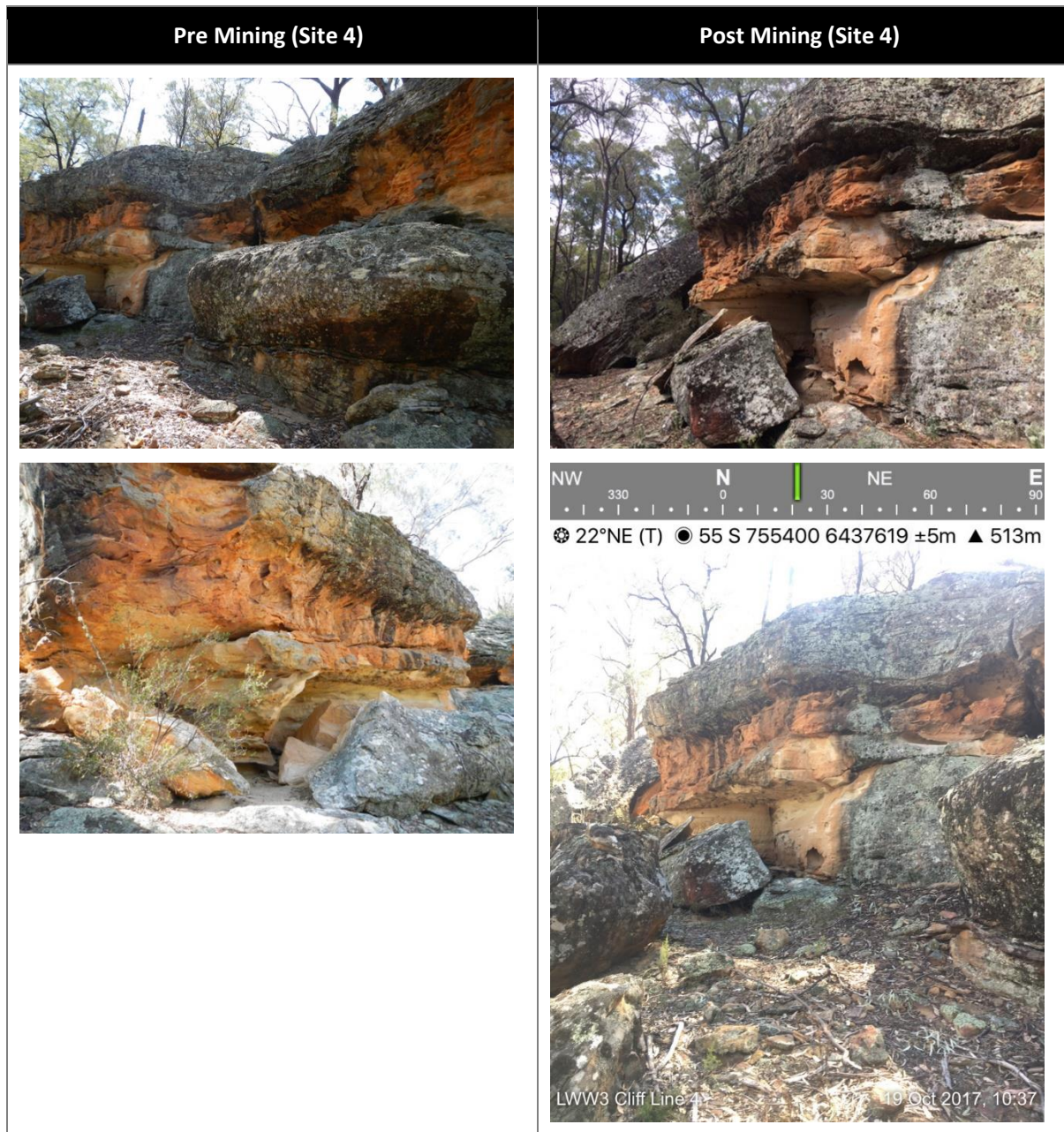
**Number:** ULNCX-1862890609-3

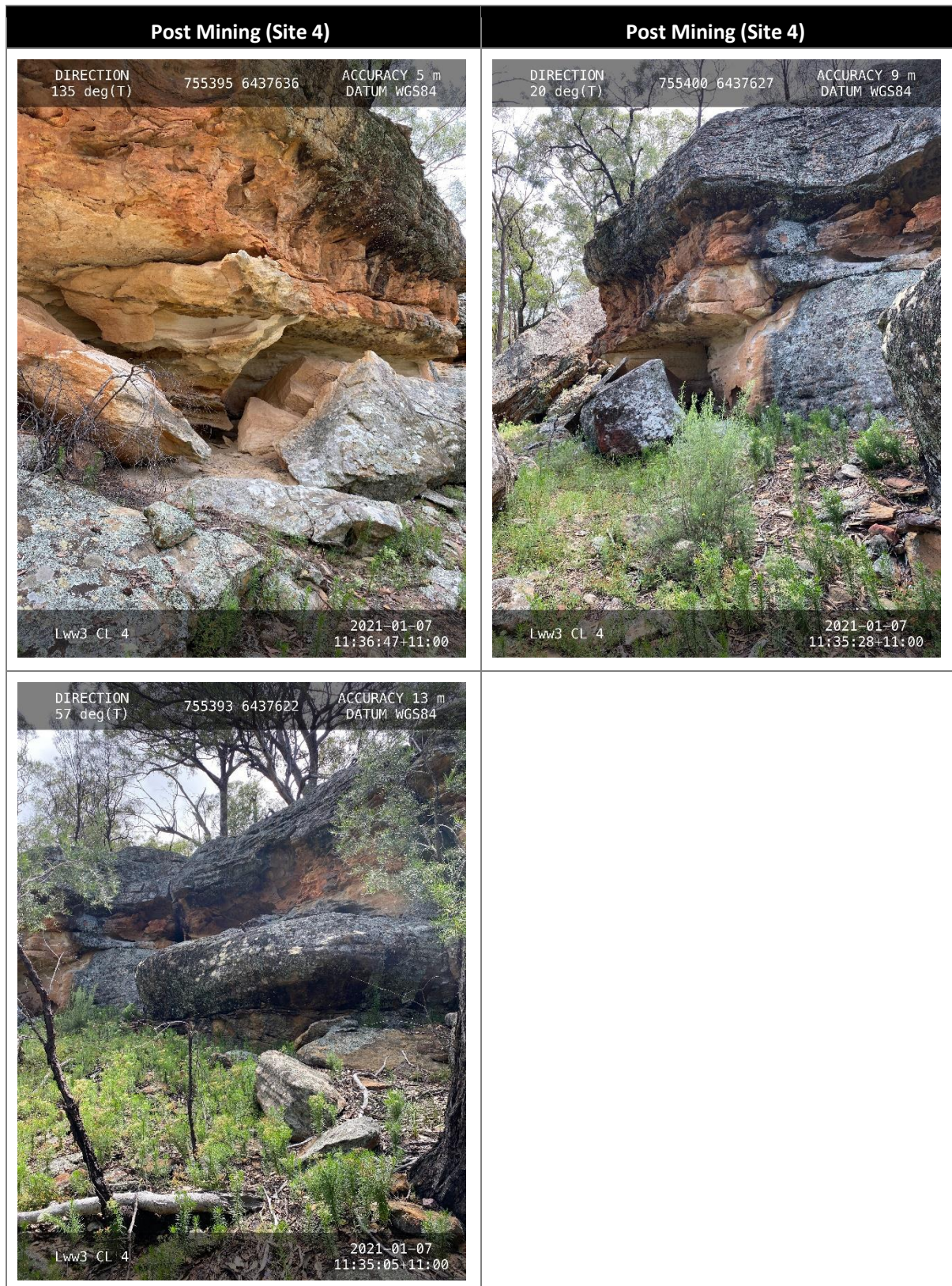
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## 4.4 Cliff Lines (LWW3 – Site 4)





**Notes:** No perceptible change (as a result of subsidence) from pre-mining condition noted at the time of the post mining inspections.

**Number:** ULNCX-1862890609-3

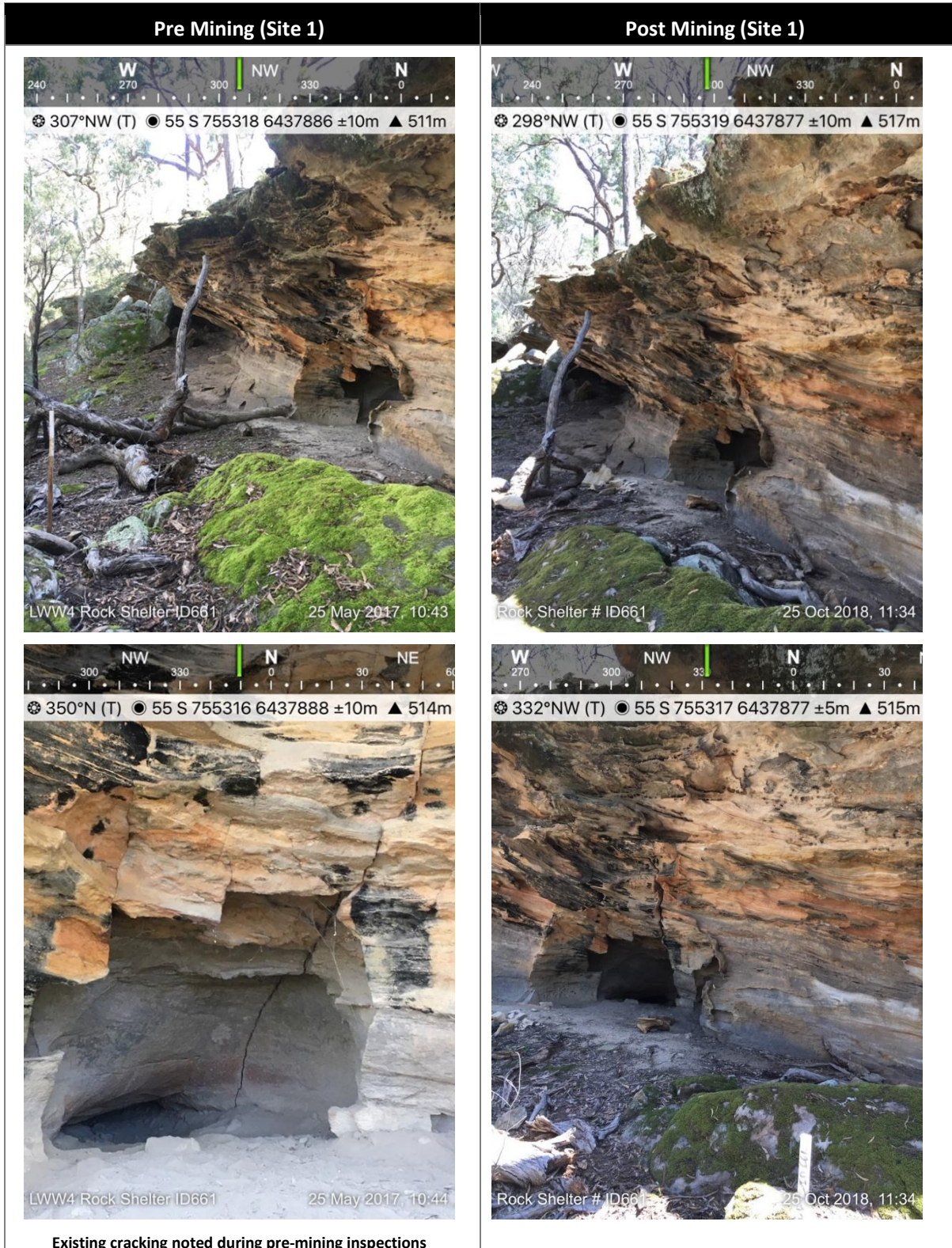
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## 5. Cliff Lines LWW4

### 5.1 Cliff Lines (LWW4 – Site 1)

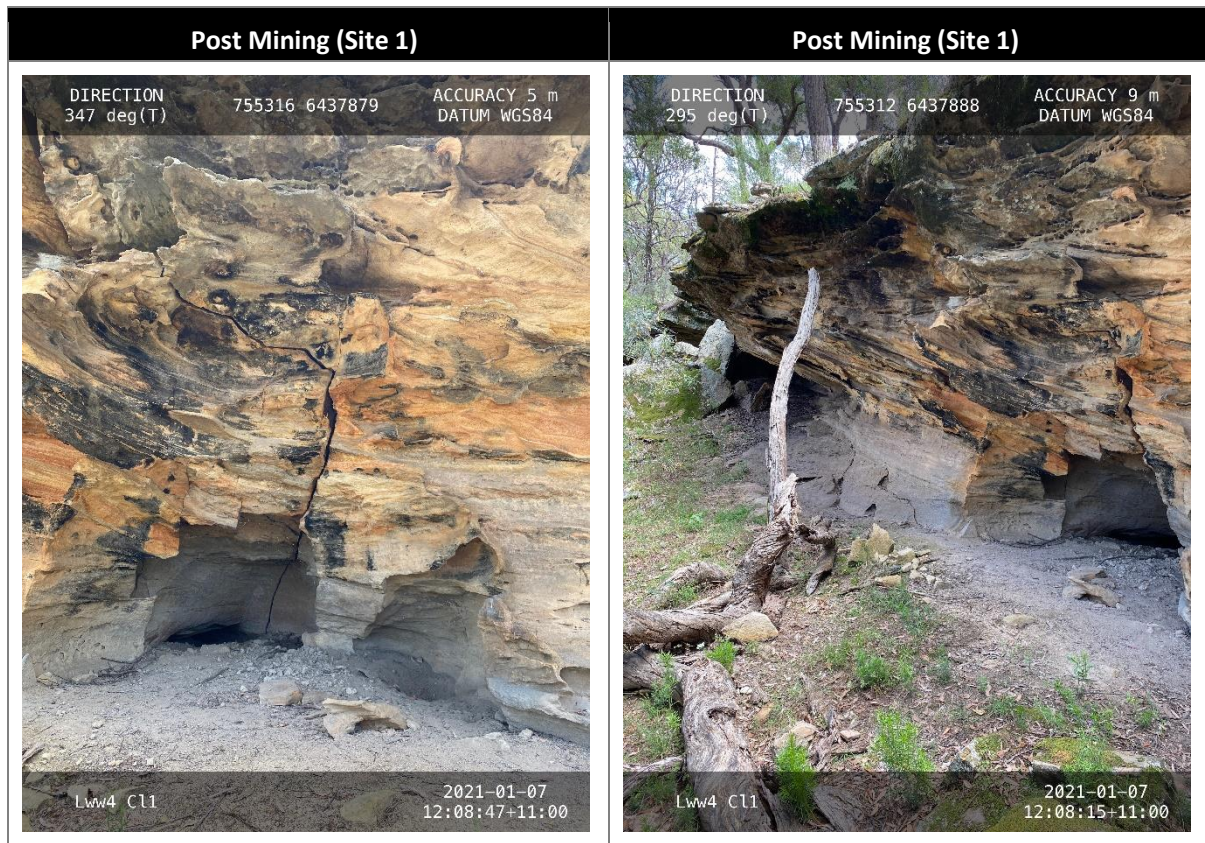


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Version: [Document Version (Office)]      Review: [Planned Review Date]



**Notes:** Isolated minor rock fall and existing crack widened (as a result of subsidence) was first recorded in October 2018. No further impacts as previously recorded were perceptible during the most recent post mining inspection in January 2021.

## 5.2 Cliff Lines (LWW4 – Site 2)



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Version: [Document Version (Office)]      Review: [Planned Review Date]



**Notes:** Isolated minor rock fall (as a result of subsidence) was first recorded in October 2018. No further impacts as previously recorded were perceptible during the most recent post mining inspection in January 2021. No perceptible change to the existing cracking first noted during the pre-mining inspection back in May 2017.

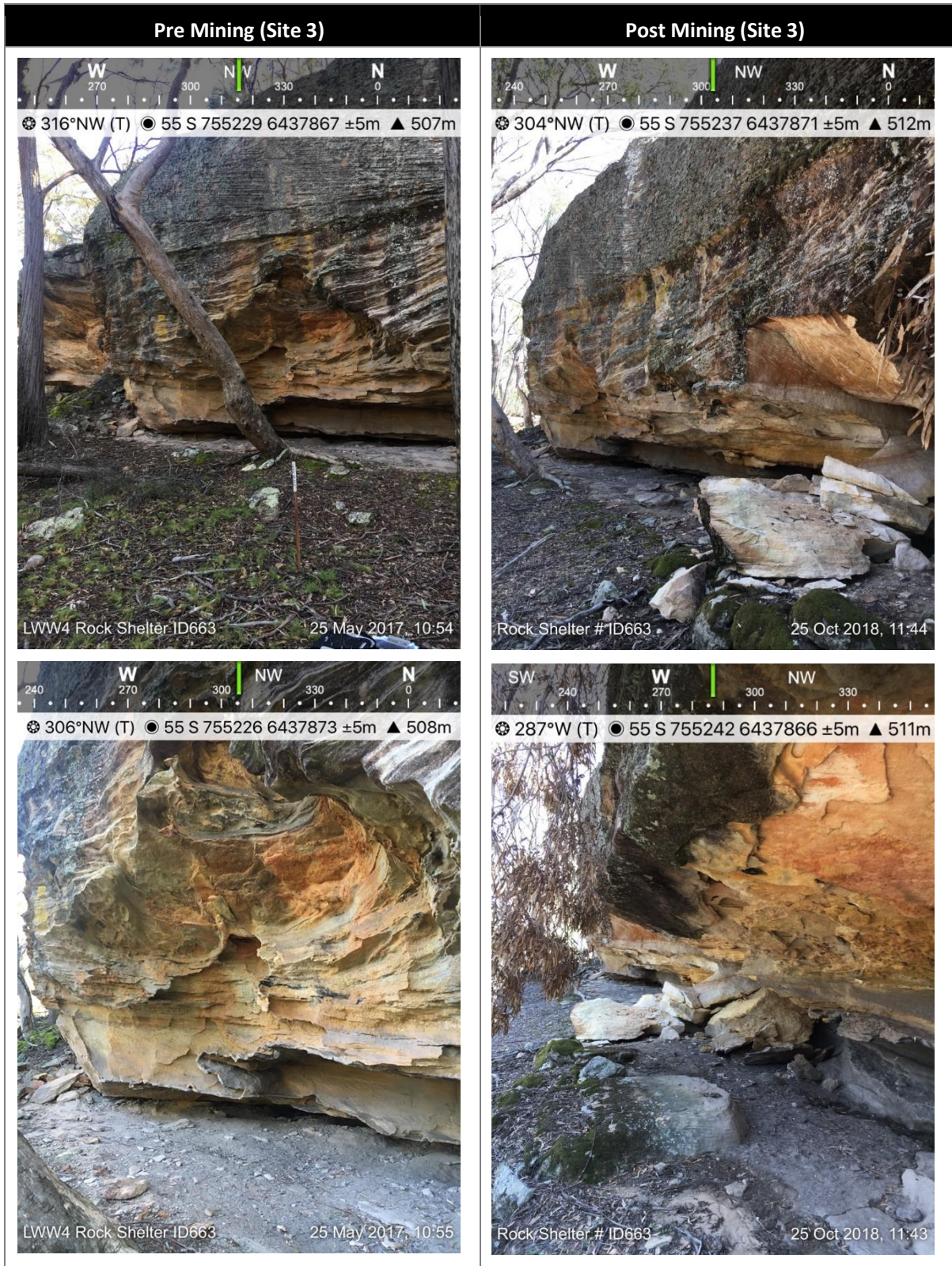
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### 5.3 Cliff Lines (LWW4 – Site 3)

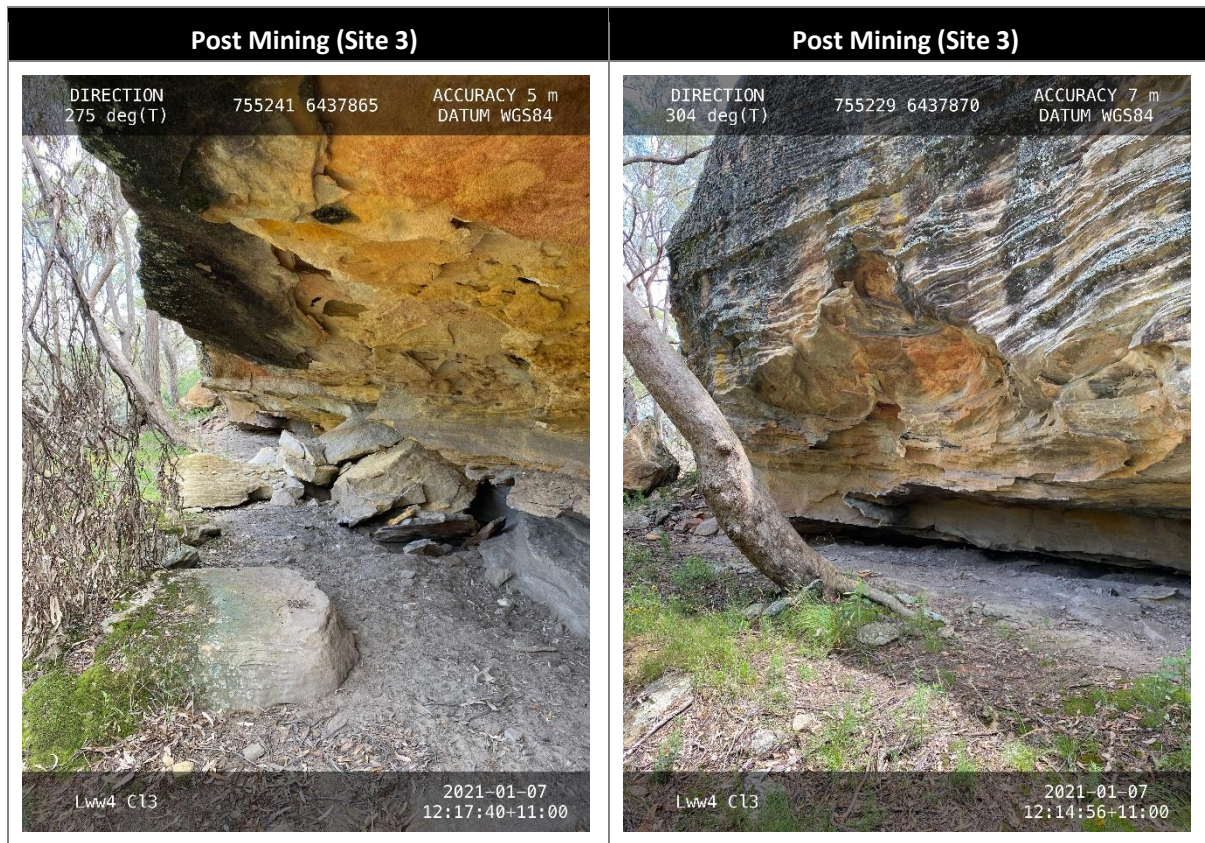


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**Notes:** Rock falls measuring approximately 7-8m in total length and cracking across the face of the cliff feature (as a result of subsidence) was first recorded in October 2018. No further impacts were recorded during the most recent post mining inspection in January 2021.

## 5.4 Cliff Lines (LWW4 – Site 4)



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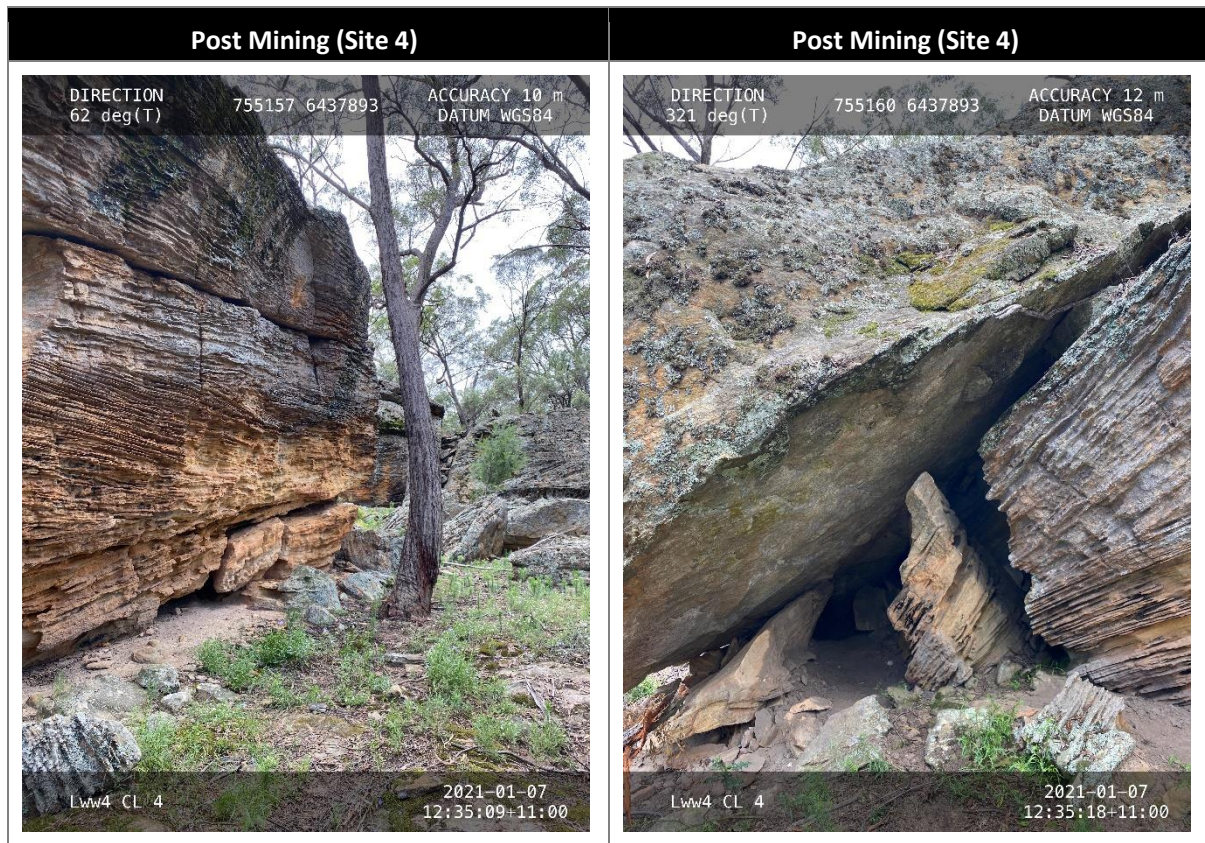
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Version: [Document Version (Office)]

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**Notes:** No perceptible change (as a result of subsidence) from pre-mining condition noted at the time of the post mining inspections.

## 5.5 Cliff Lines (LWW4 – Site 5)



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Version: [Document Version (Office)]      Review: [Planned Review Date]



**Notes:** Minor isolated rock falls (as a result of subsidence) outside of overhang noted from pre-mining condition was first recorded in October 2018. The appearance of additional small rock material, likely to have fallen since 2018 was noted during the most recent post mining inspection in January 2021.

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## 5.6 Cliff Lines (LWW4 – Site 6)

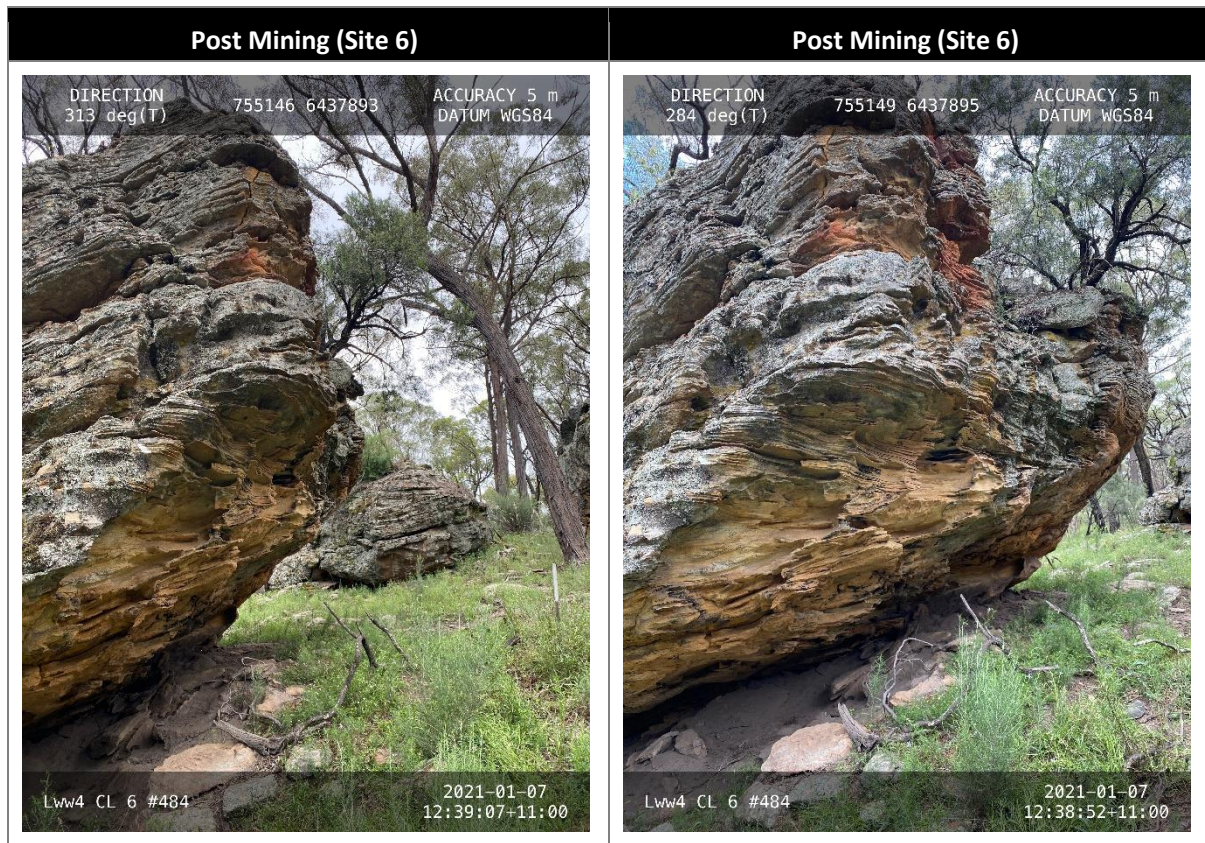


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Status: [Document Status (Office)]      Effective: [Effective Date]

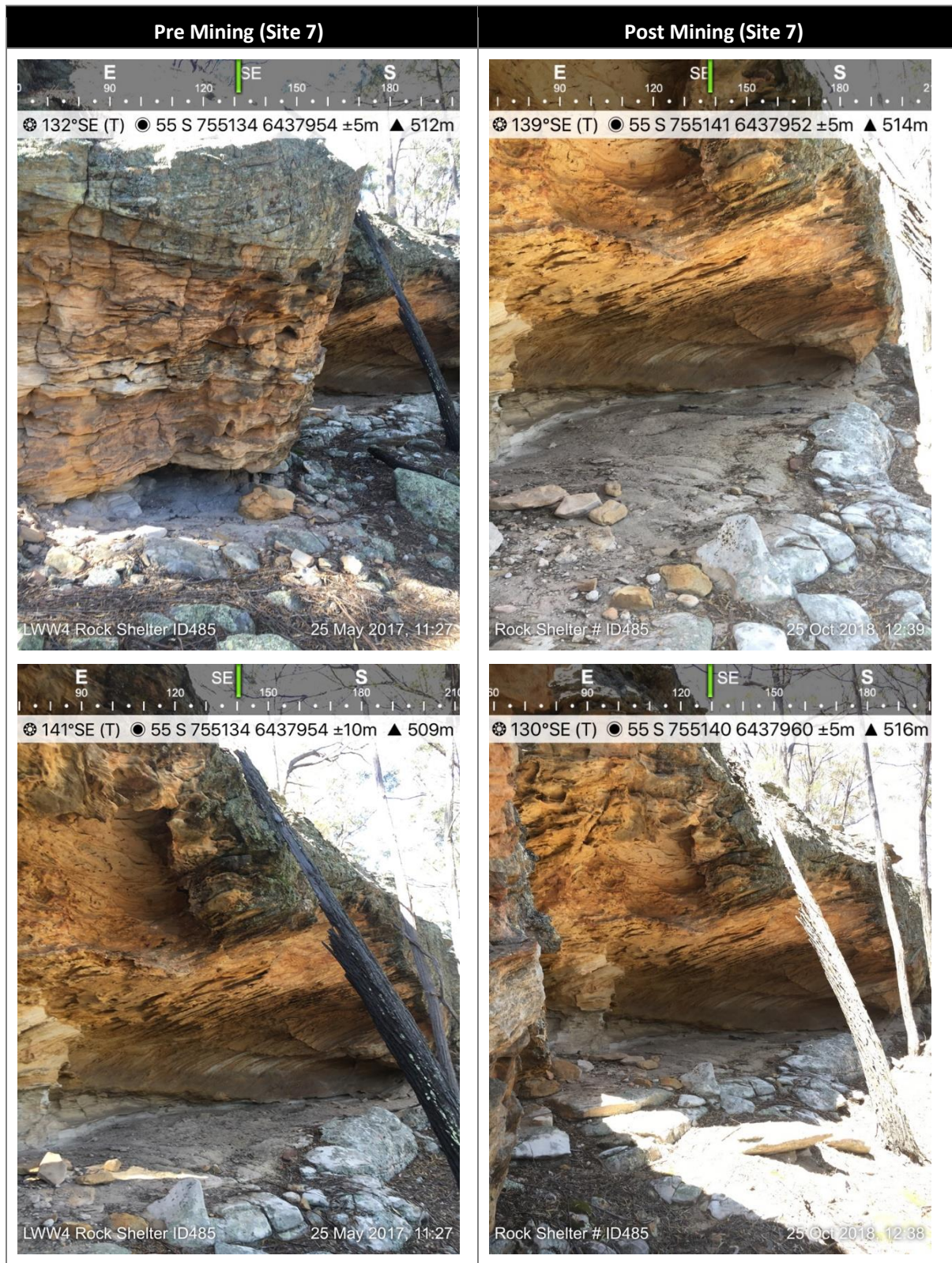
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Version: [Document Version (Office)]      Review: [Planned Review Date]



**Notes:** No perceptible change (as a result of subsidence) from pre-mining condition noted at the time of the post mining inspections.

## 5.7 Cliff Lines (LWW4 – Site 7)

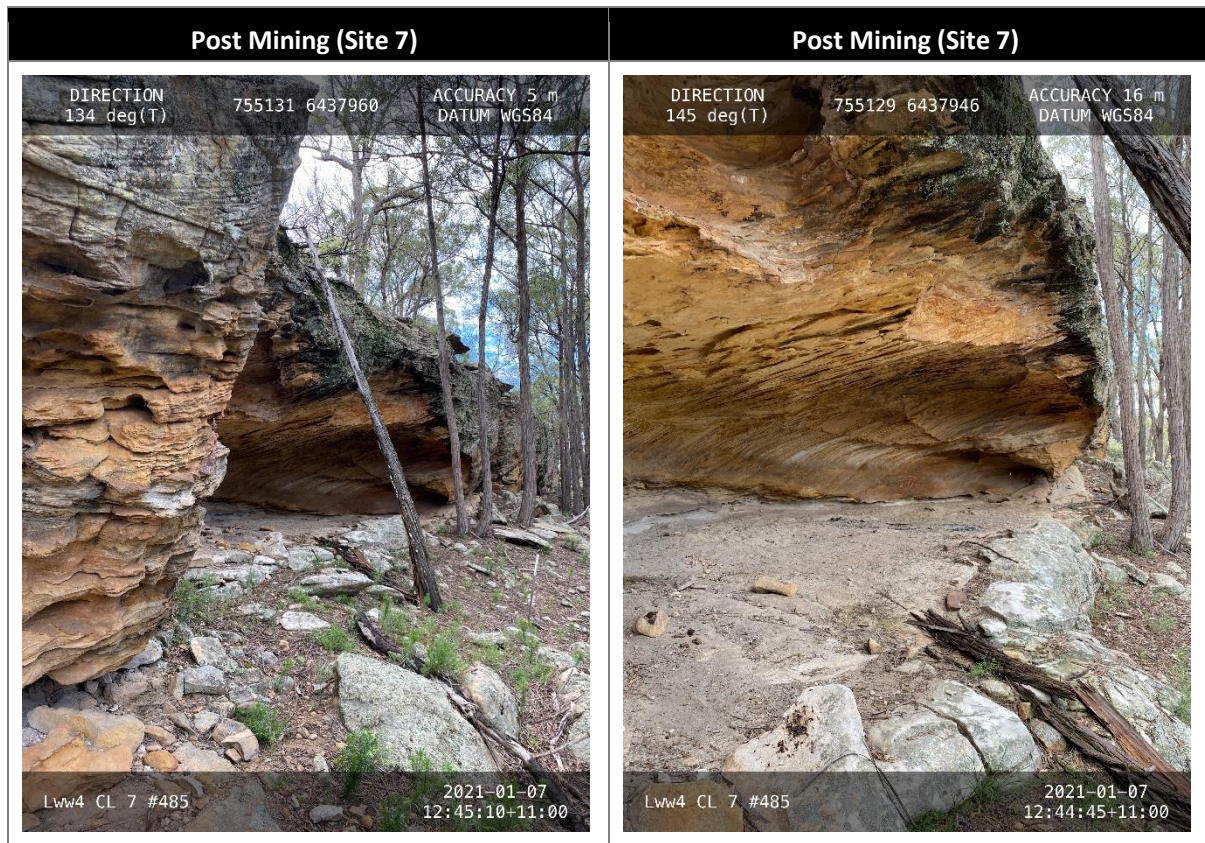


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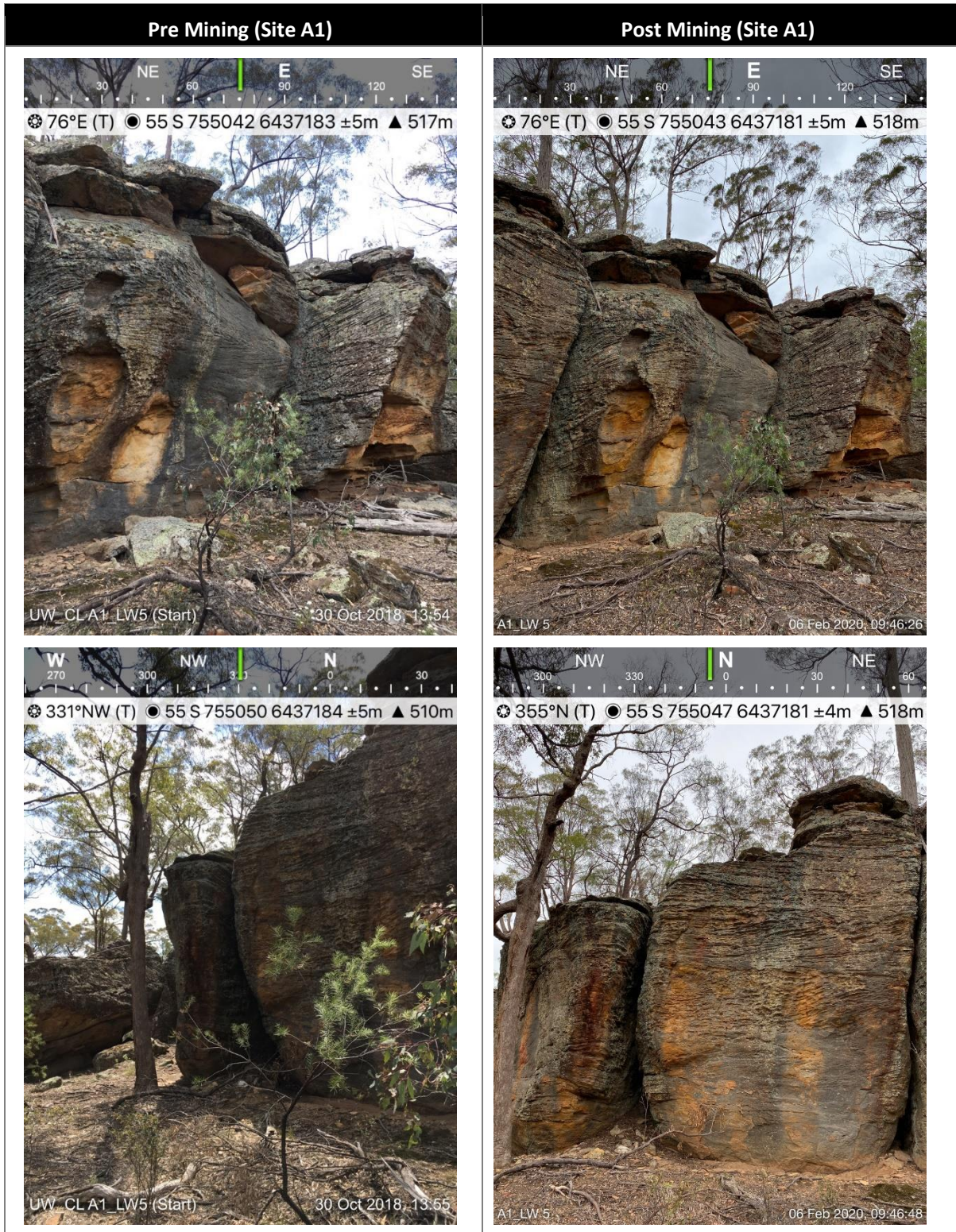
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**Notes:** No perceptible change (as a result of subsidence) from pre-mining condition noted at the time of the post mining inspections.

## 6. Cliff Lines LW5

### 6.1 Cliff Lines (LW5 – Site A1)

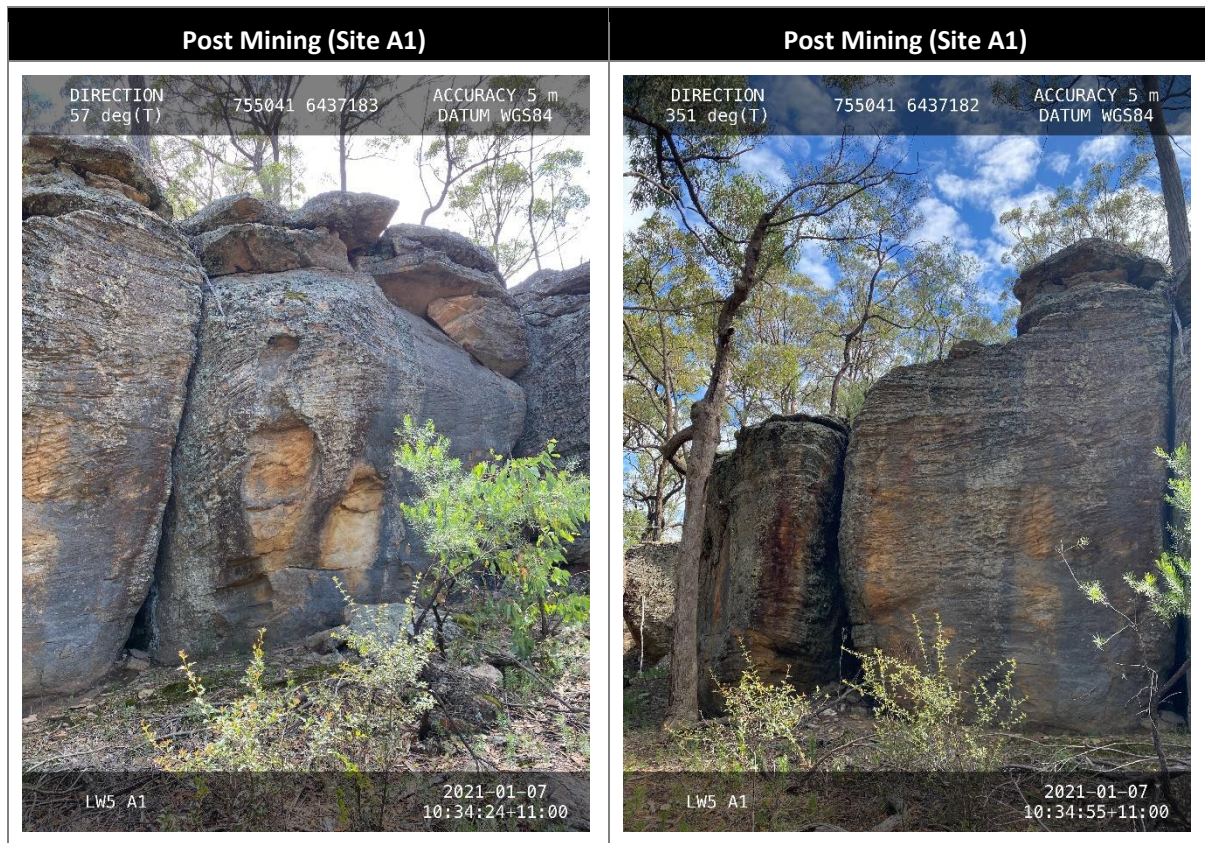


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Owner: [Owner (Office)]

Version: [Document Version (Office)]      Review: [Planned Review Date]



**Notes:** No perceptible change (as a result of subsidence) from pre-mining condition noted at the time of the post mining inspections.

## 6.2 Cliff Lines (LW5 – Site A2)

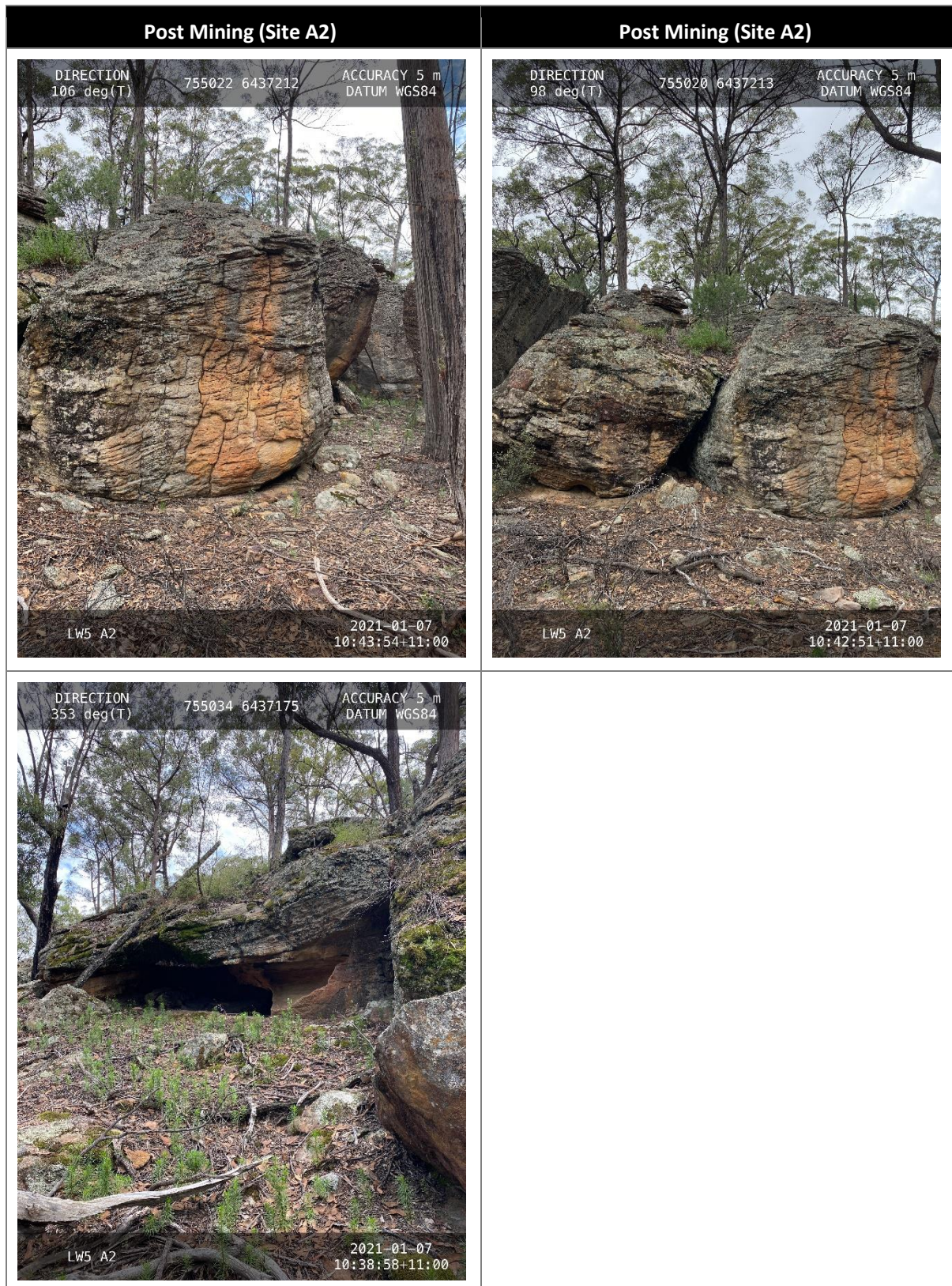


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Status: [Document Status (Office)]      Effective: [Effective Date]

Owner: [Owner (Office)]

Version: [Document Version (Office)]      Review: [Planned Review Date]



**Notes:** No perceptible change (as a result of subsidence) from pre-mining condition noted at the time of the post mining inspections.

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**Version:** [Document Version (Office)] **Review:** [Planned Review Date]

### 6.3 Cliff Lines (LW5 – Site B1)



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**Notes:** No perceptible change (as a result of subsidence) from pre-mining condition noted at the time of the post mining inspections.

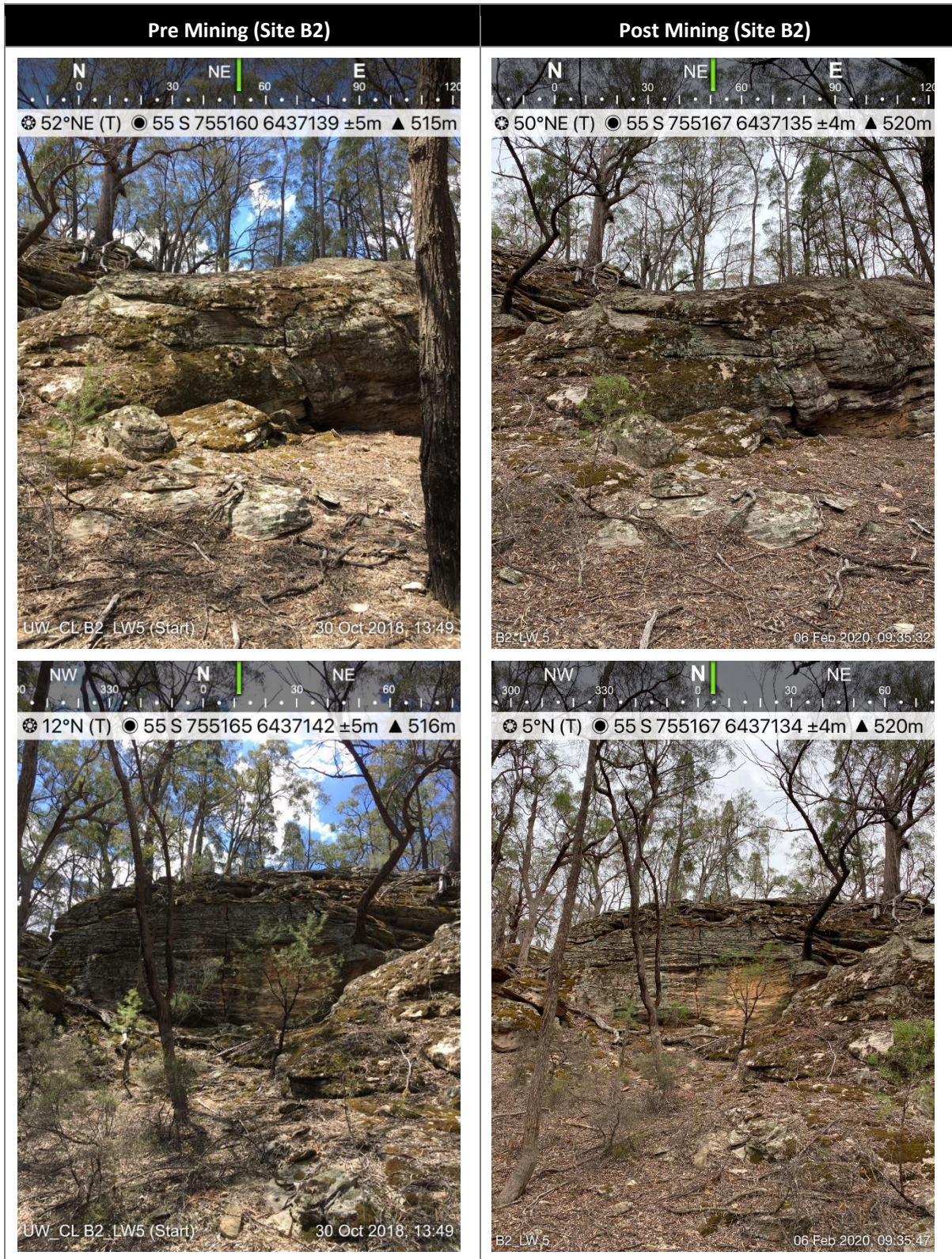
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**Status:** [Document Status (Office)] **Effective:** [Effective Date]

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**Version:** [Document Version (Office)] **Review:** [Planned Review Date]

## 6.4 Cliff Lines (LW5 – Site B2)



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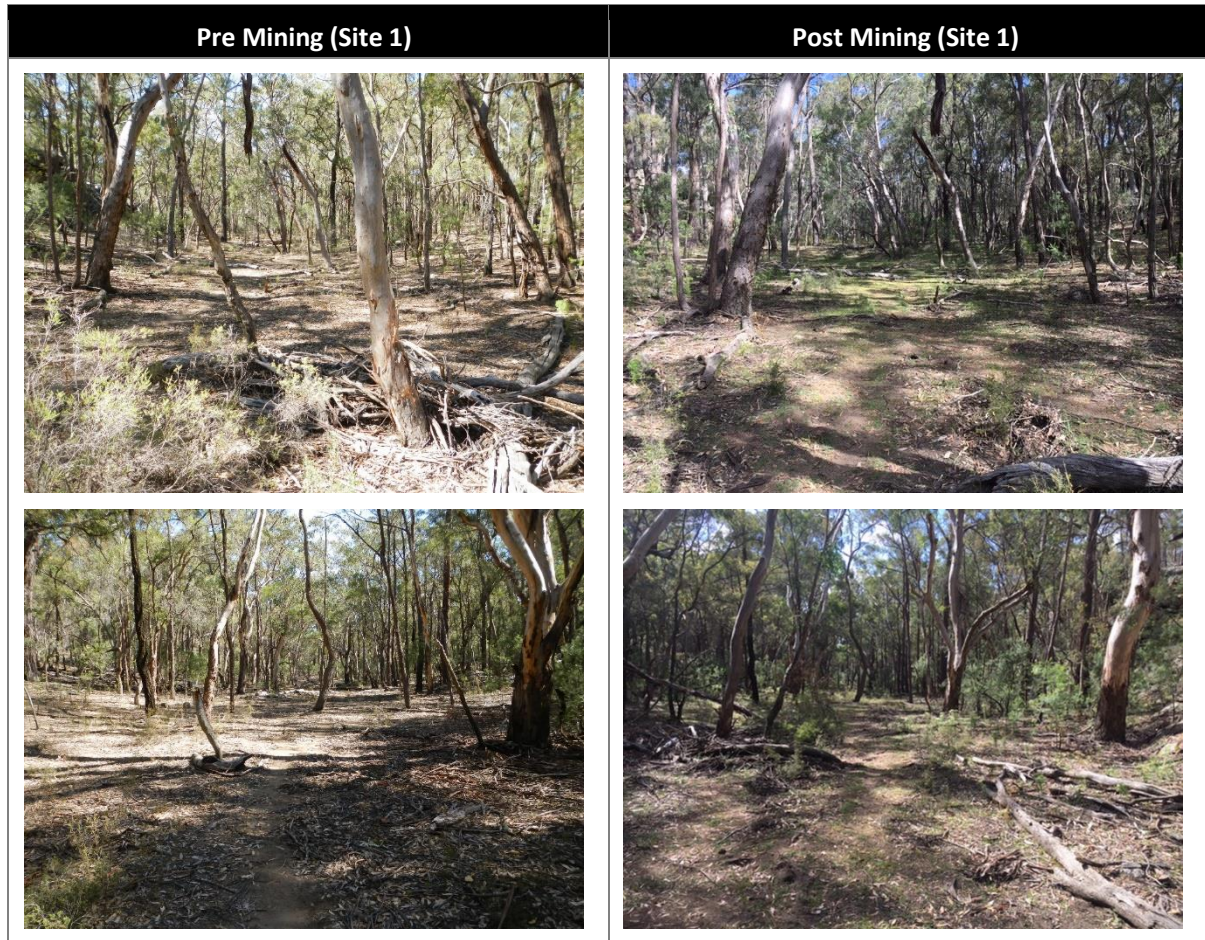
Version: [Document Version (Office)]      Review: [Planned Review Date]



**Notes:** No perceptible change (as a result of subsidence) from pre-mining condition noted at the time of the post mining inspections.

## 7. Flow Lines

### 7.1 Flow Line (LWW3 – Site 1)





**Notes:** No perceptible change from pre-mining condition (as a result of subsidence) was noted at the time of the post mining inspections. The flow line during the most recent inspection in January 2021 exemplified the above average annual rainfall recorded for 2020 (Table 1), with an increased groundcover when compared to previous years. Several significant rainfall events were recorded during 2020 as evident by the change in flood debris throughout the flow line.

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## 7.2 Flow Line (LWW3 – Site 2)



Number: ULNCX-1862890609-3

Status: [Document Status (Office)]      Effective: [Effective Date]

Owner: [Owner (Office)]

Version: [Document Version (Office)]      Review: [Planned Review Date]



**Notes:** No perceptible change from pre-mining condition (as a result of subsidence) was noted at the time of the post mining inspections. The flow line during the most recent inspection in January 2021 exemplified the above average annual rainfall recorded for 2020 (**Table 1**), with an increased groundcover when compared to previous years. Several significant rainfall events were recorded during 2020 as evident by the change in flood debris throughout the flow line.

### 7.3 Flow Line (LWW4 – Site 2)



Number: ULNCX-1862890609-3

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**Notes:** No perceptible change from pre-mining condition (as a result of subsidence) was noted at the time of the post mining inspections. The flow line during the most recent inspection in January 2021 exemplified the above average annual rainfall recorded for 2020 (**Table 1**), with an increased groundcover when compared to previous years. Several significant rainfall events were recorded during 2020 as evident by the change in flood debris throughout the flow line.

## 7.4 Flow Line (LWW4 – Site 3)



Number: ULNCX-1862890609-3

Status: [Document Status (Office)]      Effective: [Effective Date]

Owner: [Owner (Office)]

Version: [Document Version (Office)]      Review: [Planned Review Date]



**Notes:** No perceptible change from pre-mining condition (as a result of subsidence) was noted at the time of the post mining inspections. The flow line during the most recent inspection in January 2021 exemplified the above average annual rainfall recorded for 2020 (**Table 1**), with increased groundcover and dense vegetation when compared to previous years. Several significant rainfall events were recorded during 2020 as evident by the large amount of flood debris throughout the flow line. The existing dam, although undermined, appeared to be holding water and at near capacity.

## 8. Subsidence Assessments

### 8.1 SCT Subsidence Report

UCMPL commissioned SCT Operations Pty Ltd (SCT) to summarise the subsidence impacts within the proposed alternative offset area based on the findings of previous inspections. SCT Operations Pty Ltd (SCT) concluded that:

- *the measured subsidence from the mining of LWW3 and LWW4 are consistent with experience elsewhere at UUG and UW and consistent with predicted subsidence.*
- *Physical subsidence impacts observed at the time of post mining inspections were generally minor in nature and imperceptible over large parts of the panel footprint.*

For the complete report by SCT please refer to **Appendix A**.

### 8.2 Summary of Observed Impacts

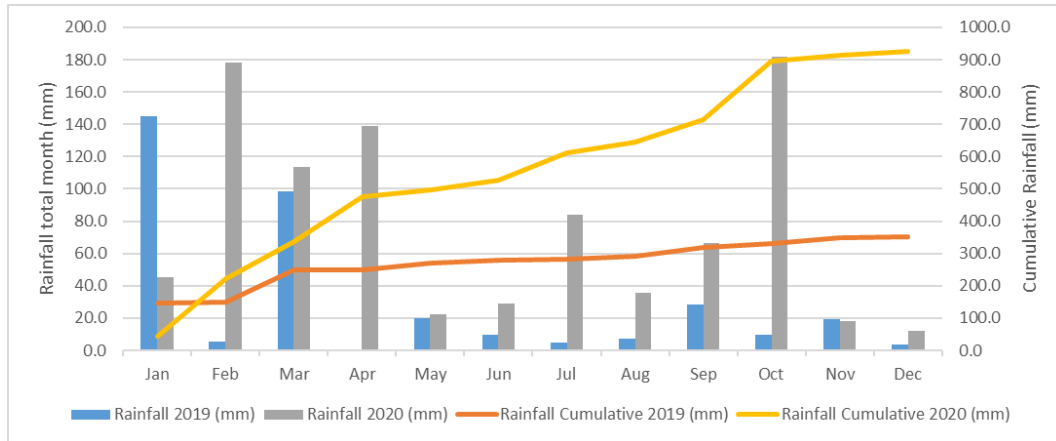
The results from UCMPL's subsidence monitoring of cliff lines and flow lines (**Section 4** to **Section 7**) within the proposed Alternate Offset Area indicate the overall effects from subsidence on these surface features have been relatively minor and well within the expected ranged of predicted impacts (**Section 8.1**). A summary of the monitoring undertaken between 2016 and 2021 include:

- There was no perceptible change as a result of subsidence to the cliff lines monitored above LWW3.
- There were isolated rock falls and minor cracking recorded at Site 1, Site 2, Site 3 and Site 5 above LWW4.
  - With the exception of the rock fall at Site 3 of approximately 7-8m total in length, other rock falls noted at Site 1, Site 2 and Site 5 were very minor and isolated.
  - Ongoing impacts from subsidence was particularly minor and only identified at Site 5 above LWW4 with the appearance of several additional small rock falls within nearly three years of post-mining.
- There was no perceptible change as a result of subsidence to the cliff lines monitored adjacent to LW5; and
- There was no perceptible change as a result of subsidence to the flow lines monitored above LWW3 and LWW4.

Significant rainfall events have the potential to contribute to erosion of the surface material across the area above undermined longwalls panels into subsidence cracks. The effects of erosion from heavy rainfall events can potentially develop erosion holes along flow lines.

In 2020, the Ulan region experienced significant rainfall events throughout the year (**Table 1**). Post mining inspections of the Alternate Offset Area, particularly monitoring of the flow lines has not identified any form of erosion and/or stability issues caused by subsidence. Continued monitoring of flow lines indicates no perceptible change as a result of subsidence.

*Table 1 Annual Rainfall for 2019 and 2020*



Rainfall data provided by UCMPL's meteorological station

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## 9. Conclusion

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The purpose of this Report is to demonstrate the suitability of the proposed Alternate Offset Area, in particular the habitable features of cliff lines and stability of flow lines, given this area has been previously undermined by longwall mining activities.

The results from UCMPL's subsidence monitoring of cliff lines and flow lines (**Section 4 to Section 7**) with the proposed Alternate Offset Area indicate the overall effects from subsidence on these surface features have been relatively minor and well within the expected ranged of predicted impacts (**Section 8.0**).

Ongoing impacts from subsidence was particularly minor and only identified at Site 5 above LWW4 with the appearance of several additional small rock falls within almost 2.5 years post mining of this longwall.

Subsidence movements within the proposal alternative offset area are effectively complete with no further subsidence impacts expected. Therefore, UCMPL believe the proposed Alternate Offset Area provides for a suitable alternative for BCA-Area 2.

## 10. Document Information

### 10.1 Reference Information

Title
<i>Ulan Underground: Longwall W3 End of Panel Subsidence Report – ULA4728 (SCT, 16 October 2017)</i>
<i>Ulan Underground Mine: Longwall W4 End of Panel Subsidence Report (SCT, March 2019)</i>
<i>Ulan West Mine: 2019 Annual Review of Subsidence Monitoring (SCT, March 2020).</i>
<i>Subsidence Assessment for Alternative Offset Area (SCT, January 2021).</i>

Table 10-1 – Reference information

### 10.2 Change Information

Version	Date	Change Details
1.0	06/01/2021	Original version

# Appendix A - SCT Report

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**Number:** ULNCX-1862890609-3

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