



Monthly Report on Filled/Unfilled Stopes and Seismic Monitoring

August 2026

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1 INTRODUCTION

Hauraki District Council Land Use Consent 202.2018 (Project Martha) requires monthly reporting of void and stope volumes, seismic and rock movement monitoring and reporting relating to safeguards around proximities to historic workings (Condition 75). Additionally, Condition 75 requires reporting of the volume of fill used to fill historic unfilled voids.

Hauraki District Council Land Use Consents 202.2012 (Correnso) and 202.2016 (SUPA) have similar requirements for reporting stope volumes and filled stopes, and for seismic and rock movement monitoring. No stoping has occurred in Correnso/SUPA since January 2023 (refer to earlier monthly reports for previous Correnso/SUPA data). Some small-scale narrow vein mining has started in Correnso using the cut and fill method.

This report is for the period August 2026 and must be submitted to HDC no later than 10 working days after the end of the calendar month covered.

Refer to Appendix A for full transcripts of the relevant consent conditions.

2 FILLED/UNFILLED STOPES (MARTHA UNDERGROUND)

The main mining methods used in Martha Underground are a combination of Modified Avoca Narrow Vein Stopping and Transverse Remnant Stope Mining, along with limited floor benching and overhand cut and fill mining. Table 1 uses survey data for the scanned void volume (m³) as the defining measure of volumes for voids and backfill. Where a void is partially filled, an estimate is given of the percentage filled at the end of the month. The volumes are reported for each stope so the state of the voids can be tracked monthly. As a void is created (by stope blasting, mining historic backfill or encountering historic voids), bogged and scanned, the status would appear as 'Open' with the relevant void volume, and once a void is backfilled, the status changes to 'Filled' and will be removed from the table after one month.

At the end of August 150,140m³ of stopes were open in Martha Underground. This is calculated using the totals from Table 1 (Scanned Void – Total Fill Volume EOM).



Table 1: Filled/Unfilled Stopes

Month	Stope	Stope Type	Mining method	Fill Type	Status	Scanned Void (m ³)	*Monthly Fill Vol (m ³)	*Total Fill Vol EOM (m ³)	Notes
TBD	EDW-012-FDR-5-01-4,6,10	Historic Fill			Failed Material	TBC	0	0	1
TBD	EDW-015-FDR-3-20	Historic Fill			Failed Material	20858	0	0	2
TBD	EMW-009-FDR-3-10-P1	Historic Stope	TRS		Failed Material	TBC	0	0	3
Nov-24	RYE-019-ODR-4-P4	Virgin	MAS	RF	Open	TBC	0	0	4
Feb-25	EMP-010-FDR-1-06-P1	Historic Fill	TRS		Failed Material	TBC	0	0	5
Feb-25	EMW-010-FDR-3-24-P1	Historic Fill	TRS		Failed Material	TBC	0	0	6
Jun-25	EMP-017-FDR-3-08-P1	Historic Stope	TRS	CRF	Failed Material	TBC	0	0	7
Jul-25	EMW-011-FDR-2-07-P1	Historic Stope	TRS	CRF	Failed Material	57822	0	28333	8
Jul-25	EMW-015-FDR-2-07-P1	Historic Stope	TRS		Failed Material	TBC	0	0	9
Aug-25	EDW-016-ACC-P1	Virgin	TS	CRF	Filling (68%)	19009	0	12926	10
Nov-25	EMW-013-FDR-2-17 P1	Historic Stope	TRS	Mixture	Filling (80%)	9460	0	7568	11
Nov-25	EMW-010-FDR-3-14-P1	Historic Stope	TRS	CRF	Filling (95%)	2595	0	2465	12
Dec-25	EMW-014-FDR-5-12-P1	Historic Stope	TRS	CRF	Bogging	610	0	0	
Dec-25	EMP-013-FDR-1-06-P1	Historic Stope	TRS		Failed Material	1960	0	0	13
Mar-26	EMW-007-FDR-3-24-P1	Historic Fill	TRS	CRF	Filling (35%)	12015	0	4205	14
Apr-26	EDW-021-FDR-8-01-2-P1	Historic Stope	TRS	CRF	Filling (90%)	104980	0	94482	15
Apr-26	EMP-021-FDR-2-01-P1	Historic Fill	TRS	CRF	Bogging	7240	0	0	16
Apr-26	EMW-018-FDR-3-02-P1	Historic Fill	TRS	CRF	Bogging	18515	0	0	17
Jun-26	EMW-010-FDR-3-14-P2	Historic Stope	TRS	CRF	Bogging	880	0	0	
Jul-26	EDW-017-FDR-1-03-2-05-10-P1	Virgin	TRS	CRF	Filling (3%)	4040	121	121	18
Jul-26	EDW-022-ODR-6-P2	Virgin	MAS	CRF	Filled (Aug)	4400	4400	4400	
Jul-26	EDW-010-ODR-10-02-7-02-1-P1	Virgin	MAS	RF	Filled (Aug)	1850	1850	1850	
Jul-26	EDW-014-ODR-6-05-1-P1	Historic Stope	TRS	CRF	Bogging	22310	0	0	19
Jul-26	EMW-008-FDR-3-24-P1	Historic Stope	TRS	CRF	Bogging	450	0	0	20
Jul-26	EMW-015-FDR-2-00-P1	Historic Stope	TRS	CRF	Bogging	950	0	0	21
Jul-26	EDW-019-FDR-4-01-10-P1	Virgin	TRS	CRF	Bogging	3078	0	0	22
Aug-26	EDW-010-ODR-10-02-7-02-1-P2	Virgin	MAS	RF	Filling	5550	0	0	23



Month	Stope	Stope Type	Mining method	Fill Type	Status	Scanned Void (m³)	*Monthly Fill Vol (m³)	*Total Fill Vol EOM (m³)	Notes
Aug-26	EDW-016-ODR-4-P1	Virgin	MAS	RF	Bogging	2590	0	0	24
Aug-26	EMP-011-FDR-2-13-P1	Virgin	MAS	CRF	Bogging	1233	0	0	25
Aug-26	EMW-012-FDR-2-11-P1	Virgin	MAS	CRF	Bogging	2006	0	0	26
Aug-26	RYE-019-ODR-3-P10	Virgin	MAS	RF	Bogging	2090	0	0	27
TOTALS						306,491	6,371	156,351	

* Monthly and End of Month fill volumes are calculated using the estimated percentage filled and the scanned void volume. The percentage filled is estimated by visual inspection. Therefore, fill volumes are approximate only.

Notes:

- Void not open due to historic crown failed and bogging on hold until crown stabilisation complete and void created.
- Void not open due to historic workings keep filling void, bogging on hold until crown stabilisation complete and void created.
- Resumed work on recovery in June 25. Historical fill to bog after spiling works complete on EMW-008.
- Only half of panel mined and will be filled once panel complete. Second half of panel planned once flat backing completed on rye-016.
- Choked off with failed material. Spiling works underway on emp-008.
- Choked off with failed material. Works have resumed to treat this void, starting from emw-007.
- Choked off with failed material. Currently on hold for further devt works on emp-014 and emp-015
- All drawpoints on EMW-011 and EMW-010 are now choked off. Stope has failed and daylighted through to the pit wall, but is now choked off in the pit wall as well
- Choked off with failed material. On hold. Partial scan only before failure (675m³)
- Crf filling commenced feb-26 from edw-015 level. Filled to EDW-015 but open above
- Crf complete. Rf remaining to do
- 5% remaining to be filled. Requires probing to determine void left
- Self-caved with historic fill
- Crf completed to emw-006 only. Rest of void up to pit will require cement slurry filling via the pit walls. Unfilled void is 7,865m³
- Crf completed to edw-017 level. Rest of void will be filled at a later date.
- Historic fill bogging
- Historic fill bogging
- CFR ongoing
- Crown mining ongoing
- Unable to get a decent CMS yet
- Bogging ongoing
- Toe recovery
- CMS done. To backfill
- Bridged. Recovery drilling
- Mining ongoing
- Mining ongoing
- Mining ongoing

3 SEISMIC & GEOTECHNICAL MONITORING

3.1 Underground Seismic Monitoring System

The purpose of the seismic system is to monitor seismic rock mass response to mining activity in and around active mining areas. The current seismic system is able to record events at least as small as ML -3.0 in the identified critical areas. The agreed critical magnitude is ML -0.5.

Anomalous seismic behaviour of the closure pillar that must be reported to the HDC is defined as:

- Event magnitudes exceeding ML -0.5.
- An increase in released seismic energy that does not subside after two weeks.

Underground seismic sensor locations, coordinates and sensor details are highlighted in Table 2, Figure 1 and Figure 2.

Table 2: Seismic sensor locations and details

Name	East	North	RL	Type	Location
S2	396513.4	643183.4	798.9	Uni-axial	823 COR SP1
S6	396397.3	643275.1	831.2	Uni-axial	844 SP
S7	396484.8	643260.4	940.7	Uni-axial	942 COR ACC
S9	396422.8	643249.3	883.9	Tri-axial	882 COR DEC
S10	396494.3	643130.9	932.7	Uni-axial	972 RAD
S21	395321.9	642792.6	951.3	Uni-axial	EDW 007 SAC
S22	396039.3	643121.9	917.7	Tri-axial	920 EMP DEC ACC
S23	395618.9	642743.9	887.5	Tri-axial	ROW 11 DEC/INC
S24	395903.4	642787.0	917.3	Uni-axial	REX ACC SP3
S25	395721.0	642944.2	782.5	Tri-axial	800 SP5
S26	395528.3	642859.5	792.8	Tri-axial	EDW 800 - RB DOWN

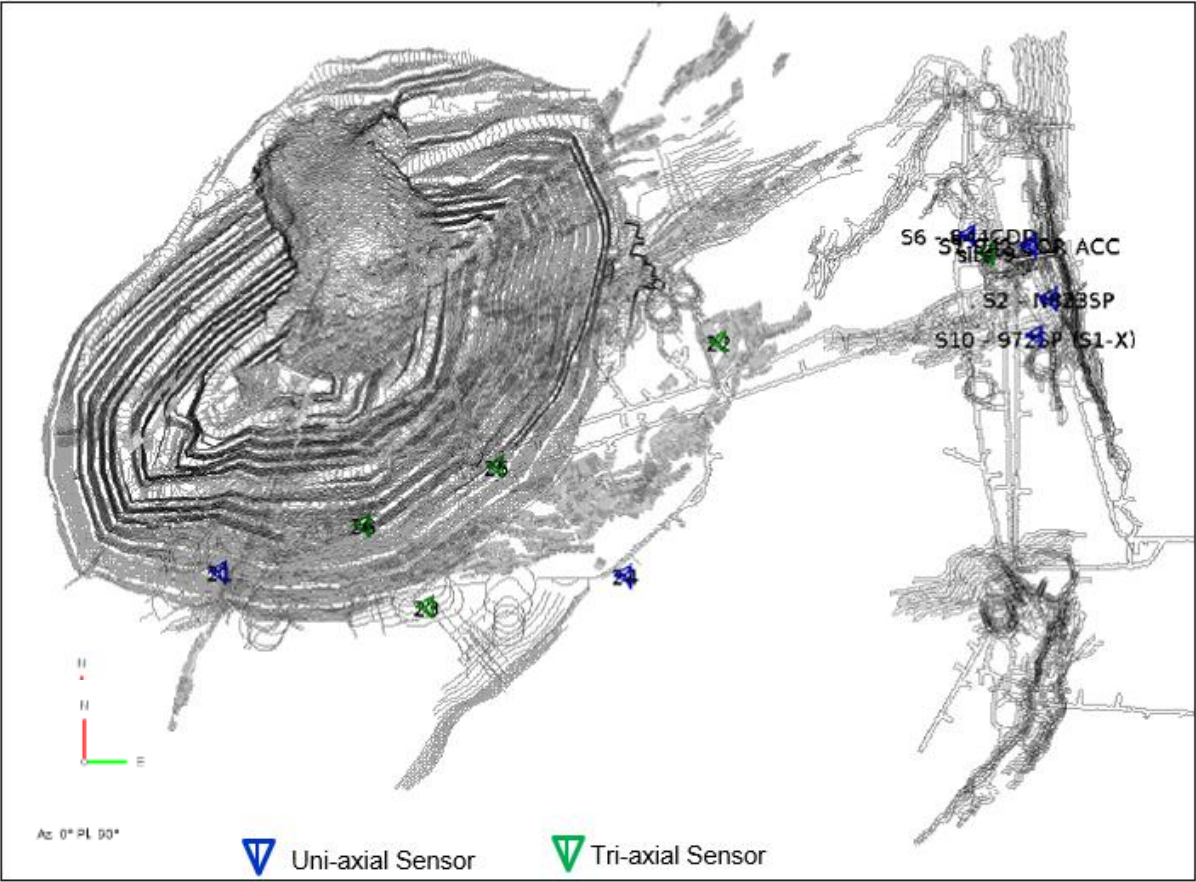


Figure 1: Plan view micro-seismic sensor locations.

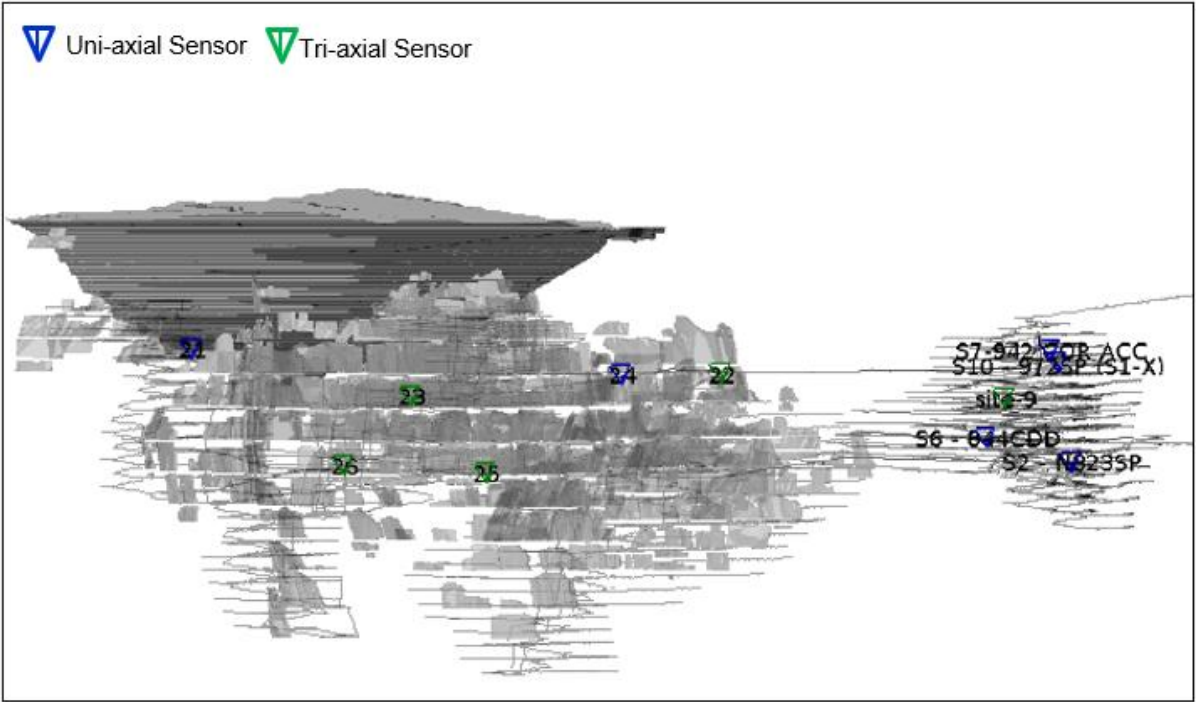


Figure 2: Section view north showing distribution and location of sensors.

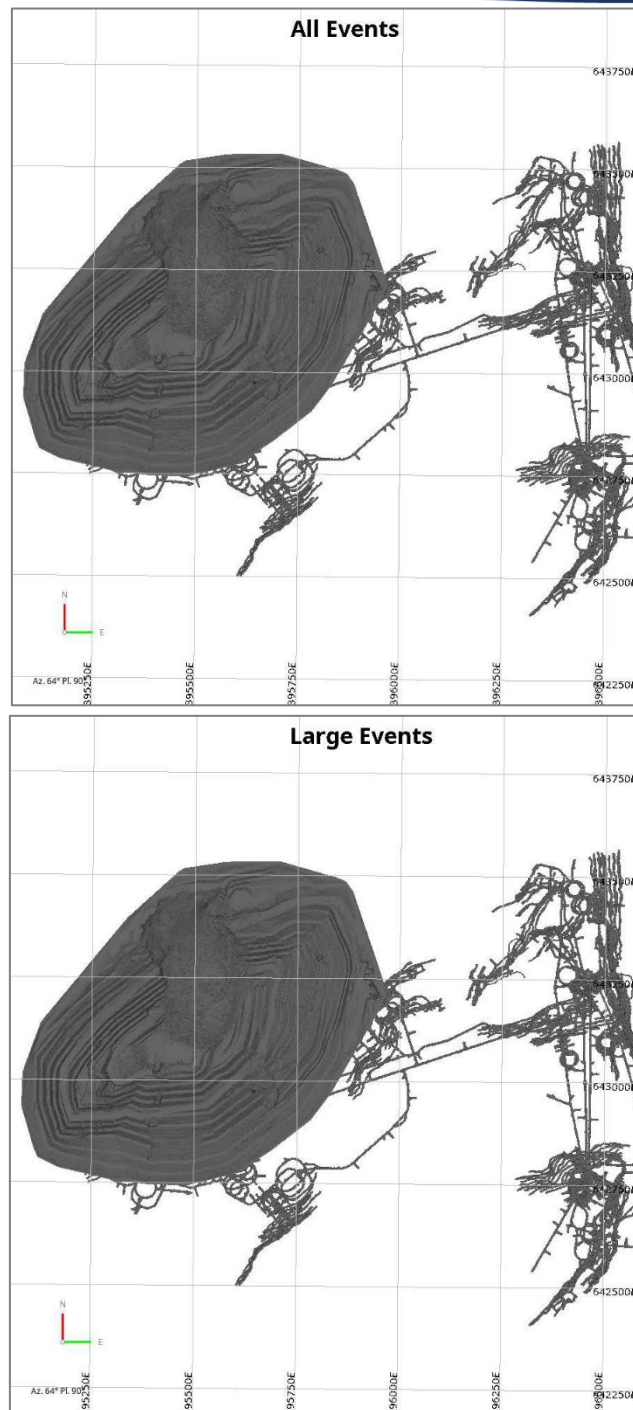


Figure 3: Plan View, Top: Normal (Location and Source) & $mL \geq -3.0$ & number of accepted triggers ≥ 3 , Bottom: Listing of events $m > -0.5$ during August 2026.

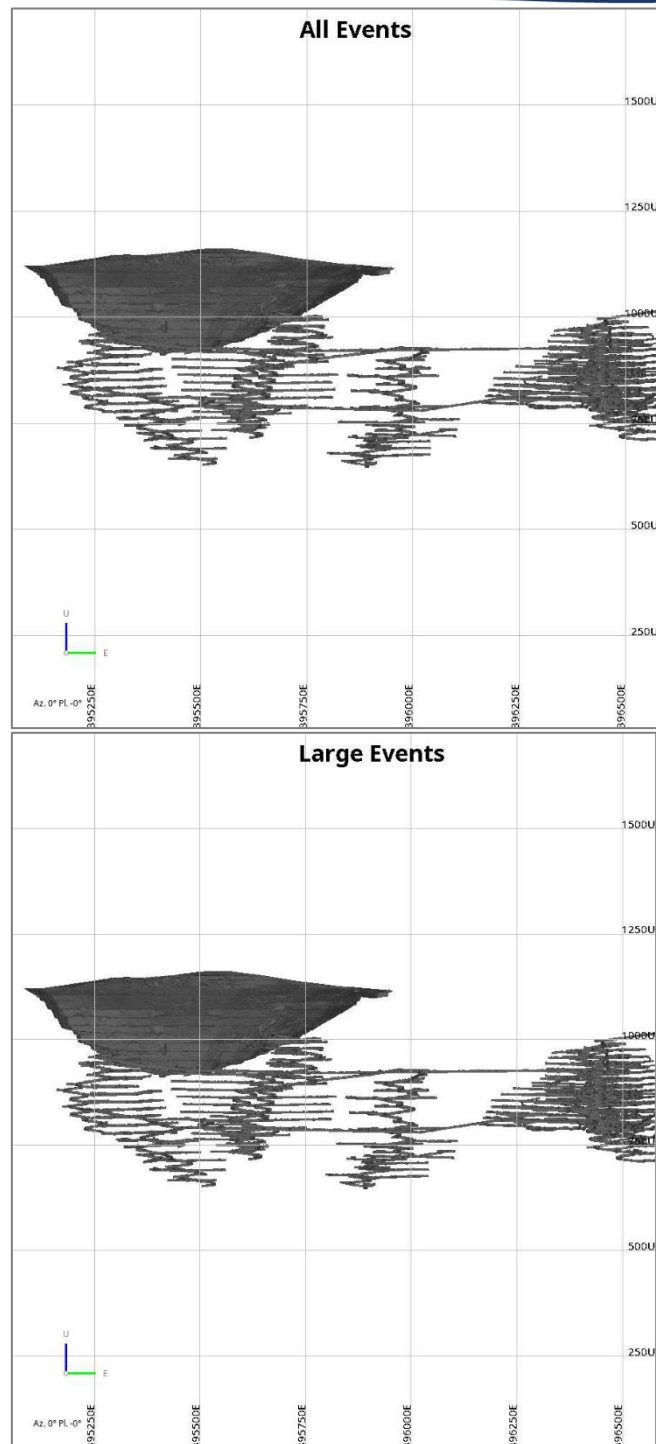


Figure 4: Looking North, Top: Normal (Location and Source) & $mL \geq -3.0$ & number of accepted triggers ≥ 3 , Bottom: Listing of events $m > -0.5$ during August 2026.

3.2 Results

No genuine seismic events were recorded this month.

Number of expert processed events: total (20), normal (0), rejected (1), blasts (19), other (0)

3.2.1 Seismologist Comments

System health was generally good, with the only timing issue occurring at site IMS4 on 17 August. Several sites (2, 6, 7, 10 and 25) appear to be disconnected and should either be repaired or decommissioned.

Recommend arranging a regular online catch-up meeting to discuss the seismic system's performance, recorded seismicity, and the results presented in the report. This is acknowledged by the geotechnical department and will schedule a regular catch up with IMSeismology team.

3.2.2 Interpretation and/or mitigation required

The location of blasts shows a high degree of scatter. This likely reflects a high degree of uncertainty in hypocentre location due to an inaccurate velocity model. It is recommended that an adaptive apparent velocity (AAV) model be calibrated for Waihi to improve the event locations and classification of blasts.

3 Month Event History vs Cumulative Potency is summarised below in Figure 5.

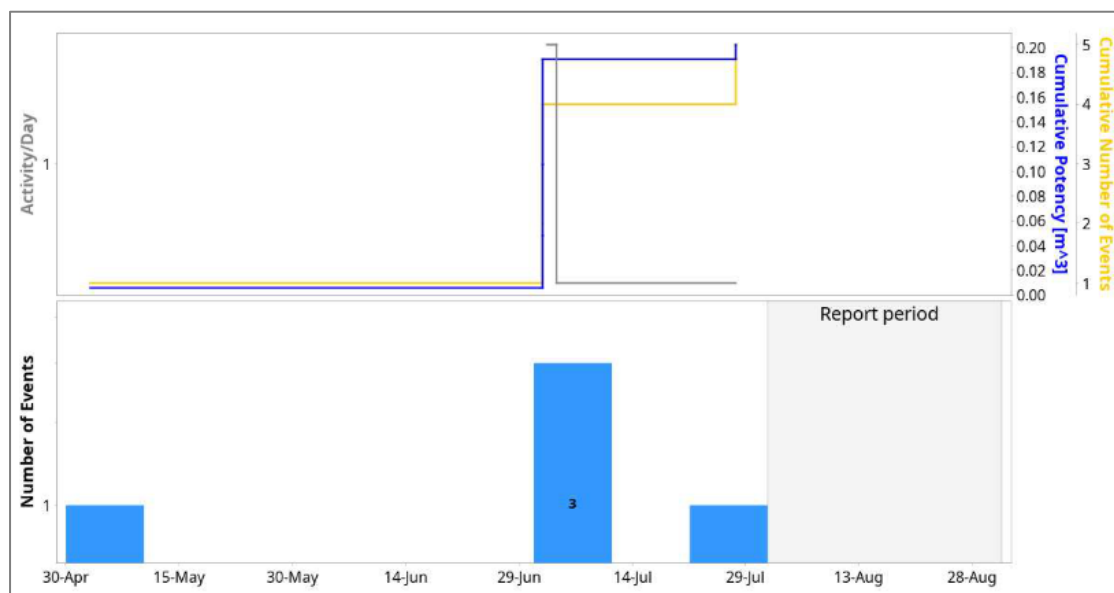


Figure 5: 3 Month Event History vs Cumulative Potency.

3.3 Extensometer Monitoring

Three extensometers installed from the surface above the REX mining area monitor crown stability and deformation. Extensometer collar locations are shown in Figures 6, 7 & 8 below.



Figure 6: Extensometer Collar Location Plan.

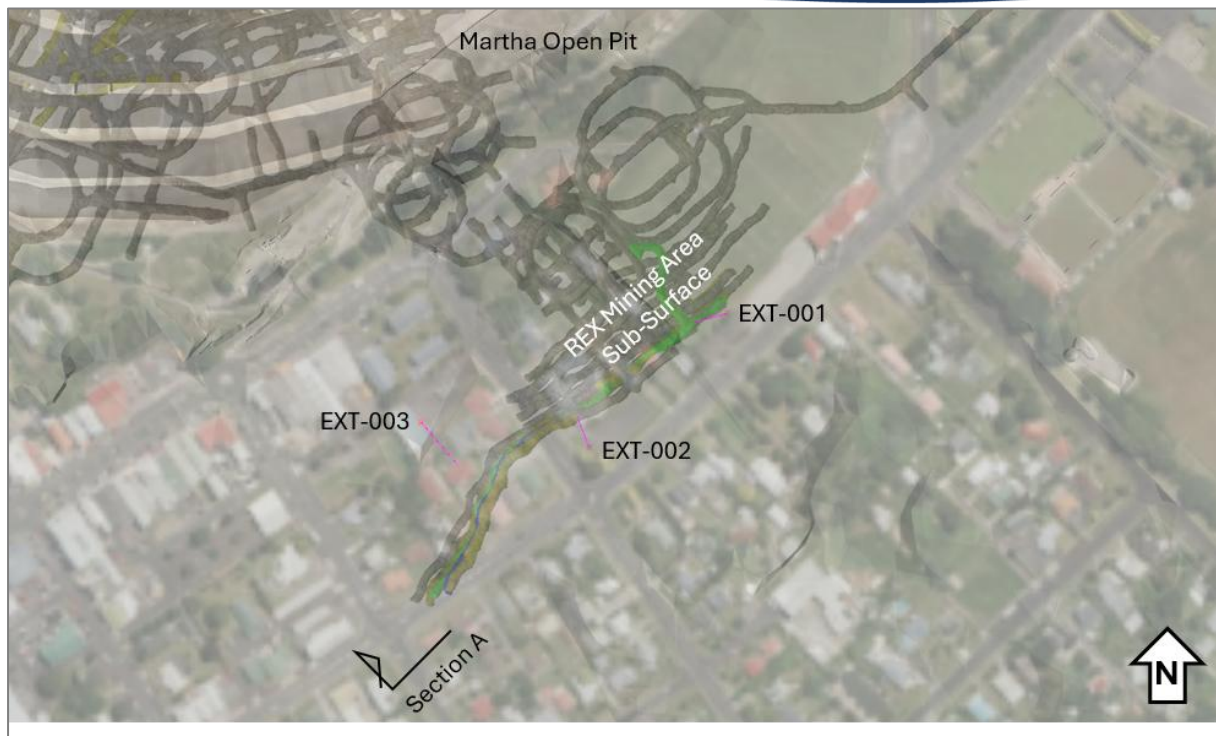


Figure 7: Extensometer Location Plan – spatial relationship to REX underground mining area.

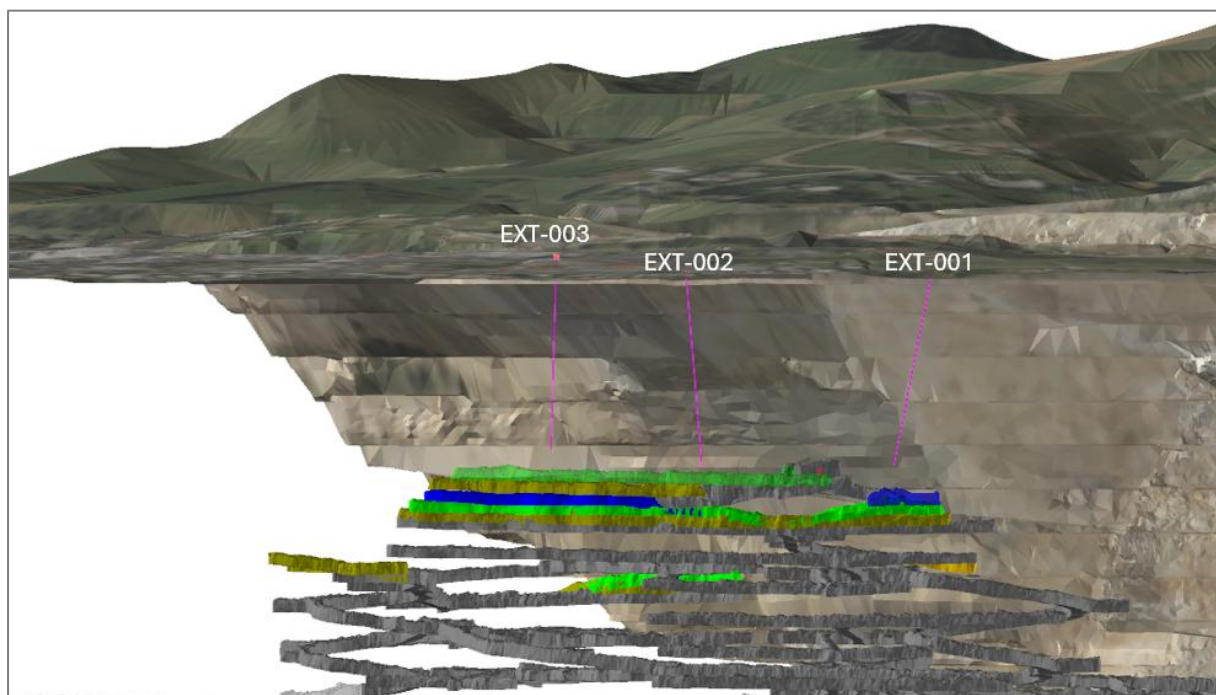


Figure 8: Cross-Section A View North – highlighting REX extensometers.

3.3.1 Extensometer Results & Data

Figure 9 summarises the extensometer monitoring results recorded between June and August 2026. Overall, displacement levels remain low and are consistent with the expected ground response to nearby mining activities. The most notable movement was recorded at the 90 mbGL anchor of EXT-002, which showed approximately 0.4 mm displacement between May and mid-June before stabilising for the remainder of the monitoring period. Given the depth of the anchor and its proximity to active mining areas, this movement is considered a localised mining-induced response rather than an indication of broader ground instability.

The remaining anchors have remained stable throughout the monitoring period, with only minor fluctuations recorded and no evidence of progressive deformation propagating towards surface. Based on the current monitoring data, ground conditions remain stable and continue to perform within expectations. Ongoing monitoring will continue to confirm stability as mining progresses.

It should be noted that EXT-003 data was unavailable during the reporting period due to a system outage. The issue has been reported to Geotechnics and is currently being investigated.

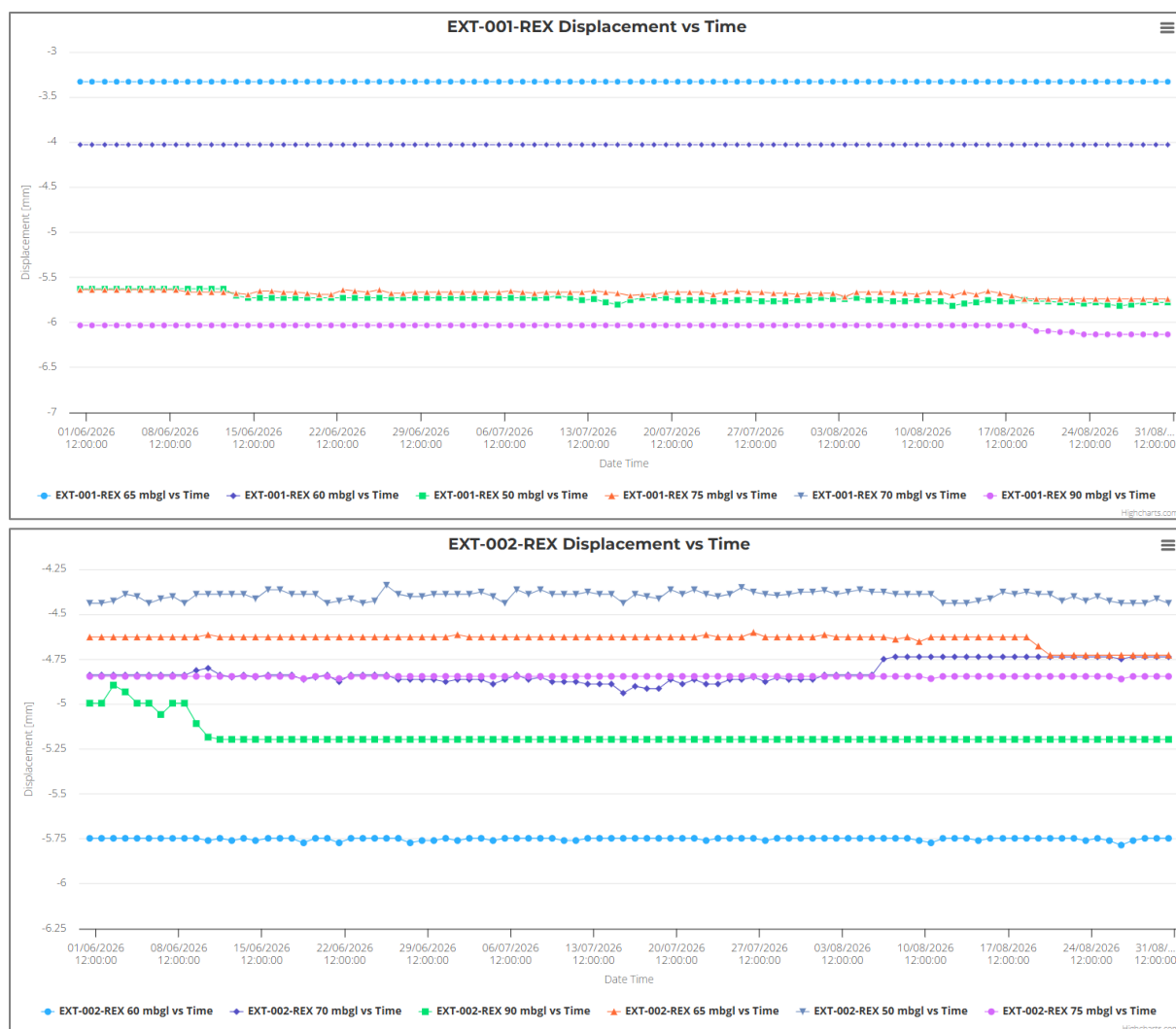


Figure 9: Displacement vs Time for REX Extensometers June - August 2026.

3.4 Slough Meter Monitoring

Slough meters have been installed in the REX and Correnso in underground areas to monitor the stability of remaining pillars adjacent to historical voids. Monitoring results to date show no measurable movement or change, indicating stable ground conditions over the reporting period.

3.5 Short Term Operational Monitoring

Various visual indicator type monitoring devices are installed as and when required to monitor short term mining scenarios. These indicator devices include but are not limited to 'Clock-its', 'Rock-its', 'Bucket' indicator instruments.

Short term devices are primarily installed where modern development traverses historical drives and voids to allow monitoring of pillars and void crowns for short term operational safety in relation to potential void propagation prior to production being completed.

There has been no significant change in these visual indicator devices.

3.6 Stand-Off Distances

As per the Underground Void Management Plan (VMP), a stand-off distance from proposed stoping to the Martha open pit is to be maintained at a minimum of 40m.

During the reporting month, the required stand-off distance was maintained, this includes the 20m stand-off to the milking cow zone.

4 PROBE DRILLING

4.1 SUPA Consent RC-202.2016 c.20a

Probe drilling for Correnso/SUPA is now complete.

4.2 Probe Drilling for the Month (Project Martha)

Reporting of probe drilling meters is not required by Project Martha Consent RC-202.2018 but is reported here for continuity. Total probe drilling for August 2026: 2,478m.

5 DEFINITIONS

Term	Definition
Stope Code e.g. EDW-016-FDR-7-20	'Vein' - 'Mining level' - 'Stope type' - 'Stope length progression'
Vein EDW RYE EMW REX	Edward Royal East Empire West Rex
Mining Level	Sequential stoping levels (increasing with depth)
Stope Type ODR FDR CFR	Ore Drive Fill Drive Cut Fill Ramp
Mining Method MAS TS TRS	Modified Avoca Stoping Transverse Stoping Transverse Remnant Stoping
Fill Type CRF RF	Cemented Rock Fill Rock Fill
Other Acronyms TBD TBC N/A CALs	To Be Determined To Be Confirmed Not Applicable Cavity Auto-Scanning Laser System (CALs) Void Scanner

APPENDIX A CONSENT CONDITIONS

HDC LAND USE CONSENT No. RC-202.2012 (Correnso)

- 26 Reporting on Filled/Unfilled Stopes and Seismic Monitoring
- a) The consent holder shall report to the Council on a monthly basis on the total stope volume and volume of fill stopes for that month for each mining method employed namely: cut and fill area, transverse stope area: and all Avoca areas combined. The report shall be in a form acceptable to the Council and the data shall be for the situation at the 20th day of the reporting month. The report shall be delivered on or before the end of the calendar month covered.
 - b) The consent holder shall report to the Council on a monthly basis detailing any anomalous results from the seismic monitoring and rock movement monitoring required by Condition 23. The report shall be delivered on or before the end of the calendar month covered.

HDC LAND USE CONSENT No. RC-202.2016 (SUPA)

- 20 Reporting on Filled/Unfilled Stopes and Seismic Monitoring
- a) The consent holder shall report to the Council on a monthly basis on the total stope volume and volume of filled stopes for that month for each mining method employed. This shall include volume of voids created, the volume of fill in voids that have been created and the volume of fill in surveyed unfilled historic voids. each stope mined during the month where adjacent to an unfilled historic stope void. The report shall be delivered on or before no later than 10 working days after the end of the calendar month covered.
 - b) The consent holder shall report to the Council on a monthly basis detailing any anomalous results from the seismic monitoring and rock movement monitoring required by Condition 23. The report shall be delivered on or before the end of the calendar month covered.

HDC LAND USE CONSENT No. RC-202.2018 (Project Martha)

- 75 The consent holder shall report to the Council on a monthly basis on the total stope volume and volume of filled stopes for that month for each mining method employed. This shall include the volume of voids created, the volume of fill in voids that have been created and the volume of fill in surveyed unfilled historic voids (including the volume of fill up to 30 m below the toe of the Phase 4 Cutback). The report shall be in a form acceptable to the Council and the data shall be for the situation as at the 20th day of the reporting month. The report shall be delivered no later than 10 working days after the end of the calendar month covered.

The consent holder shall report to the Council on a monthly basis detailing any anomalous results from the seismic monitoring and rock movement monitoring required by Condition 71. The report shall also report against the stand-off distances specified within the Void Management Plan required by Condition 72 (where applicable). The report shall be delivered no later than 10 working days after the end of the calendar month covered.

Note: Mining statistics are already recorded on a calendar month basis. For practicality and consistency, it was agreed that the reporting above would be for monitoring during the calendar months and the situation at the end of the month.