Federation Mining

Stakeholder Liaison Committee Meeting

4th December 2024



Attendees



The Stakeholder Liaison Committee was established during recent Resource Consent amendments to allow for regular and formal interaction between affected parties for the duration of the consent.

The following organisations will be represented and invited to participate:

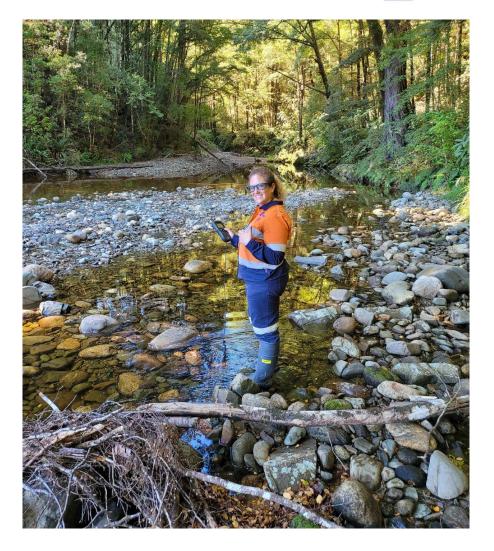
- Federation Mining
- West Coast Regional Council
- Buller District Council
- Te Rūnanga o Ngāti Waewae
- Department of Conservation
- Mine Waste Management (Advisory function)



Meeting Agenda

FEDERATION MINING

- Introductions
- Action Items from previous meeting
- Presentations
 - Site update
 - Consent matters
 - Monitoring results
 - Mine Waste Management report
- Confirm follow up actions, Q&A



Action Items From Previous Meeting



- Include rainfall data moving forward in meeting papers
- TARPs to be implemented
- Snapshot of any community concerns and mitigations to be shared next meeting
- Monitoring & sampling of WRS during civil works for process plant construction
- Paul Weber to provide progress report on Geochem review next meeting



Snowy River Mine Updates

- Employment for over 70 people onsite, 60% reside on the West Coast.
- Over 10,000m of safe decline development has been completed across the twin declines.
- The Birthday Reef was intercepted in Feb 2024. Ore continues to be extracted from the reef.
- Panel A resource drilling program completed in December with a total of 16,000m completed. Panel B is currently underway.
- Over 50 million litres dewatered from the Blackwater workings.
- The sale between OceanaGold and Federation was completed in June 24 with Federation now the owners of the Snowy River asset.
- Construction of the processing plant base underway with full construction planned in second quarter of 2025 while funding arrangements are finalised.





Resource Model Summary



	Reserve	Indicated Resource	Inferred Resource
Tonnes (t)	368,220	224,000	796,000
Grade (g/t)	10.8	24.6	24.0
Ounces	128,229	177,000	608,000

- 2023 drilling program totalled 72 drill holes for 16,000m, extending 230m below Blackwater Mine historical workings (focussed on Panel A)
- Panel A 177K oz Indicated Resource, 23K oz Inferred Resource (average drill spacing 50m)
- Panel B 585K oz Inferred Resource
- (drilling demonstrates 900m extending additional 530m below Panel A)
- PFS generated 128koz of JORC Reserves
- 12% increase in Mineral Resource Estimate (MRE) from 2014 OceanaGold PEA Inferred Resource estimate 940kt
 @ 23 g/t for 695koz

Snowy River Mine Process Plant Update





Process Plant Update

- Process plan base under construction.
- Engineering is well advanced through partners Stantec engineering.
- The plant will occupy 10,000m2 of already disturbed land.



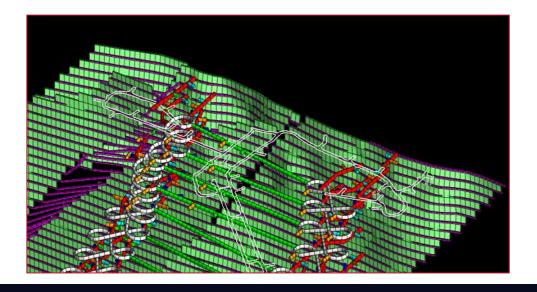


- Planning a consent amendment to allow some toll treatment offsite
- Some ore treated with cyanidation and detoxified in circuit.
- Seeking necessary licences for cyanide and radioactive measuring device for the mill.

Proposed Development Plan & Timetable

2024	Updated Mineral Resource Model					
	Dewatering of historic workings					
	Feasibility Study					
	Decision to Mine					
	Ore Development H2 2024					
2025	UG ore development & stoping					
	Mill Construction					
	Pastefill plant and distribution system					
	Production ~60koz – 65koz Au p.a.					
	~10 – 12 year mine life based on business case					
	First gold planned early 2026					





Drone Image





Environment



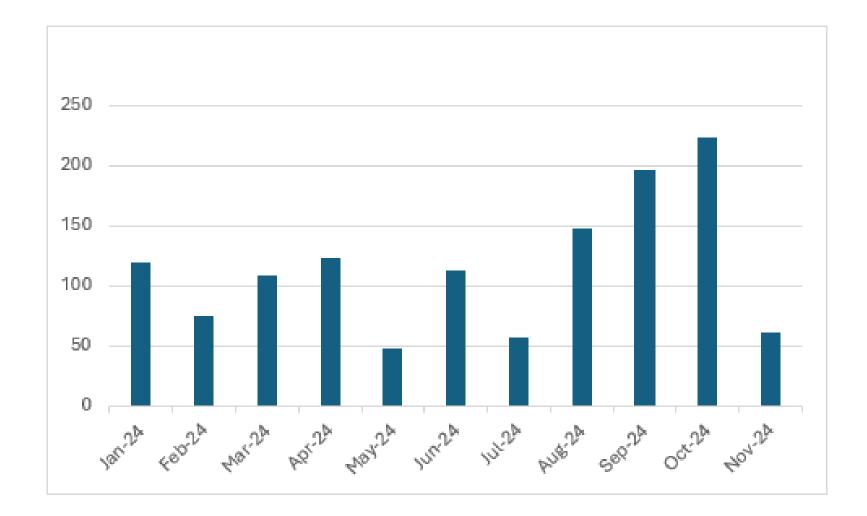
- Growing team Mark Brown, Megan Wiliams joining Cas Hutt on the Site Sustainability Team
- Performance and regulatory monitoring continues.
- Emissions data tracked by an external provider, Greenbase. Scope 1 & 2 emissions reported.
- Weed management, baiting and recycling remains the same.
- Low carbon intensity with estimated 0.03 tonnes of GHG emissions per ounce.
- 0.56 tCO2e per metre advanced.

	FY21	FY22	FY23	FY24
Scope 1	418 tCO2e	1,107 tCO2e	1,649 tCO2e	1,704 tCO2e
Scope 2	16 tCO2e	72 tCO2e	89 tCO2e	118 tCO2e
Total Emissions	436 TCO2e	1,179 tCO2e	1,737 tCO2e	1,822 tCO2e



Site Rainfall Data





Social Responsibility / Community



The community in which we operate continue to be of great importance with Federation proudly providing sponsorship or participation at the below events during 2024.

- Community engagement sessions at Greymouth, Westport and Reefton
- Greymouth Christmas event
- Quartzopolous Marathon
- Ikamatua Civil Defence
- Minerals West Coast
- Reefton Bowling Club
- Reefton Trotting Club
- Reefton Accommodation project
- State Highway Upgrade work near Snowy River Road



Resource Consent Matters



- Updated Bond assessment with WCRC.
- Current cash bond is \$670,205.
- Waste Rock Stack footprint growth to design size planned for 2025.
- Power line and electrical infrastructure upgrade consenting in progress.
- State Highway intersection upgrade Late 2024. (next slide)
- Strong focus on water treatment, further enhancements will be needed.
- Water inlet from river will need replacement.
- Geochem review post drill program in progress
- Bat survey planned with DoC
- Communication challenges with some sensors

- Community concern recorded in relation to traffic movement on Snowy River Road. Themes of feedback include:-
 - Traffic speed
 - Traffic noise
 - Vehicle behaviour
- Range of mitigations in place including speed monitoring, inductions, warning signs, communication with key suppliers, CCTV monitoring, vehicle monitoring, engagement with Council and Police.

Resource Consent Changes



- Primary purpose of proposed change is to allow for toll treatment of sulphide ore offsite
- Change to Regional and District Consent necessary
 - Regional Change to Condition 130 in relation to placement of 50% of process waste underground
 - District Additional provision for heavy vehicle movements in daily schedule with restrictions on evenings, weekends & school bus times
 - Pre lodgement meetings completed
 - Affected party dialogue underway
 - Submission of application planned prior to Christmas 2024

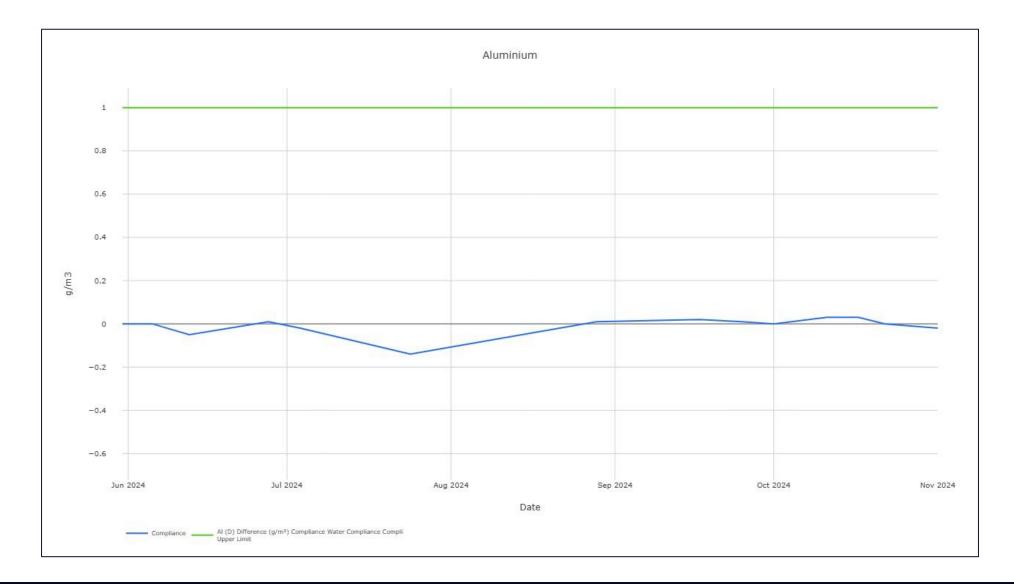
State Highway Upgrade

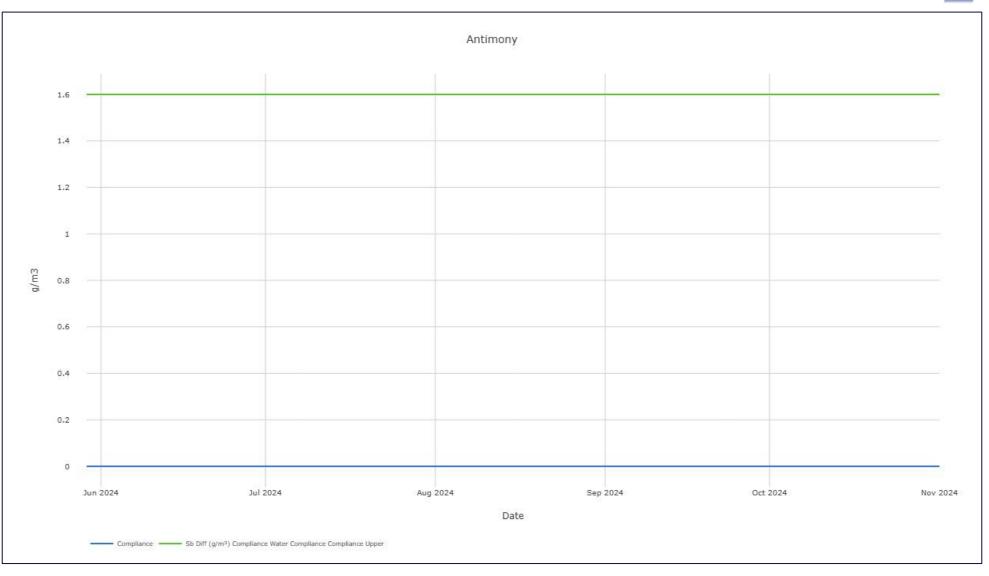


- Engineering progressing on track
- Safety in design workshop completed and submitted to regulator for review
- Road works in the schedule for late January 2025
- Fence line to be relocated off road reserve and reinstated on boundary
- All necessary permits are in hand to do field work



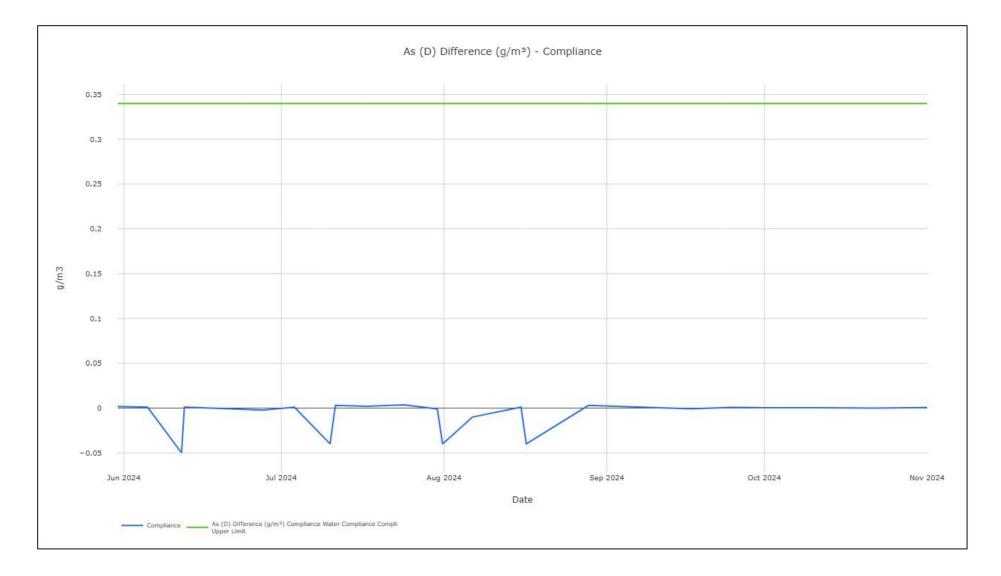




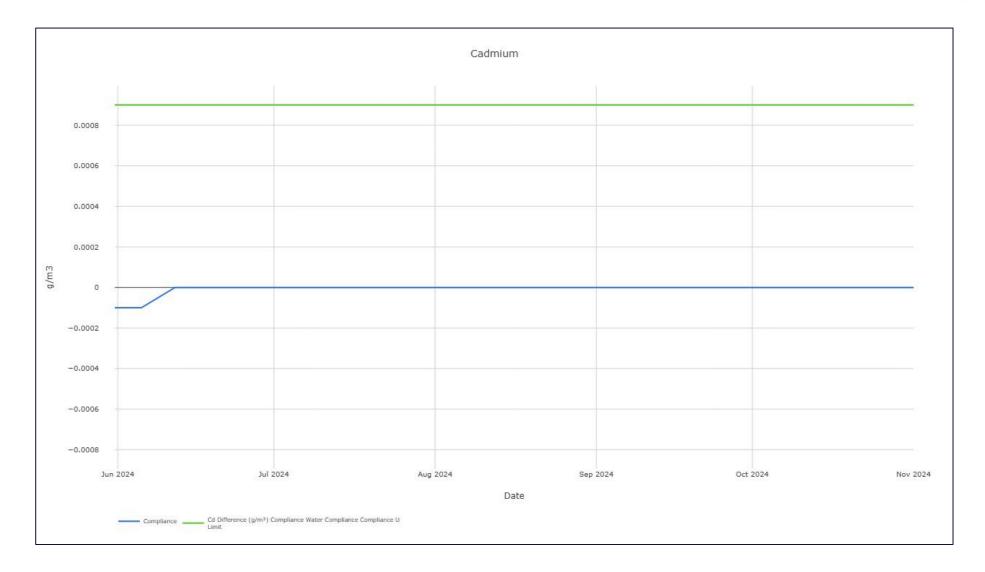


FEDERATION MINING

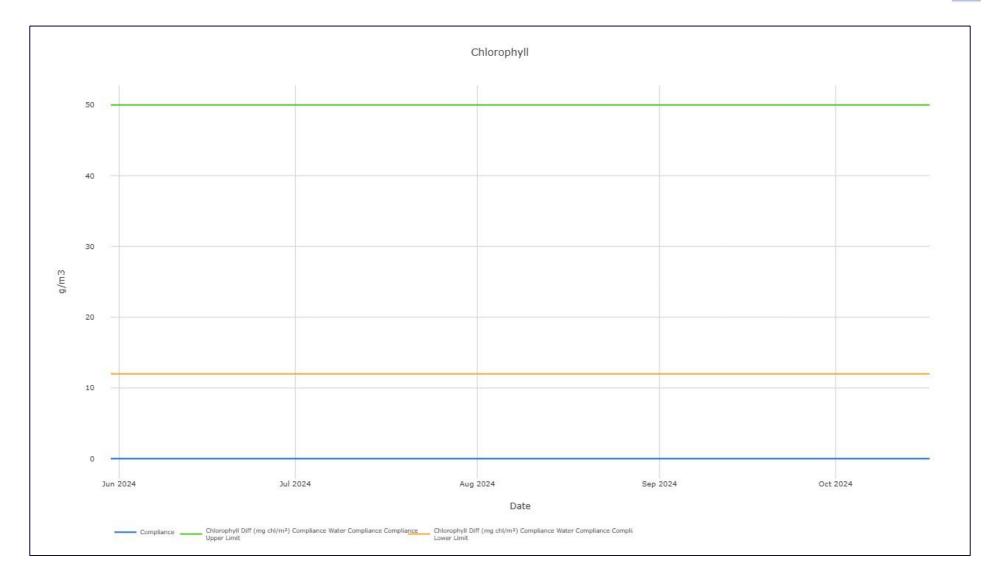




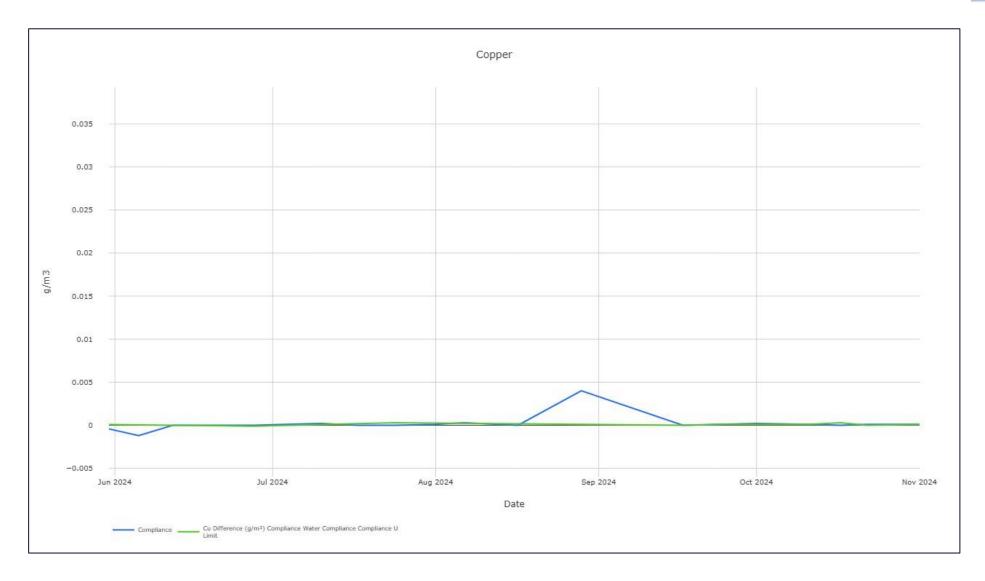


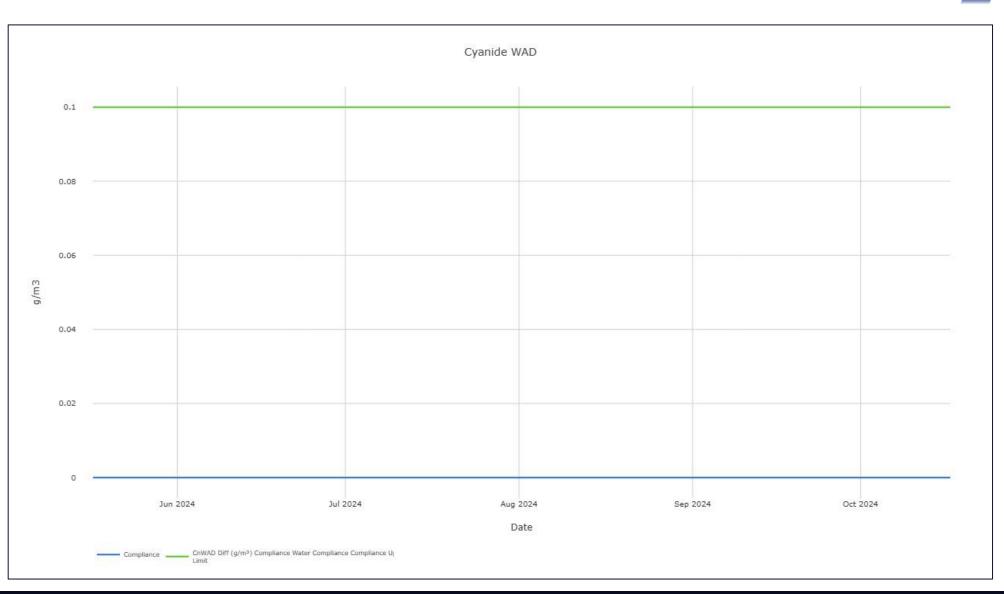






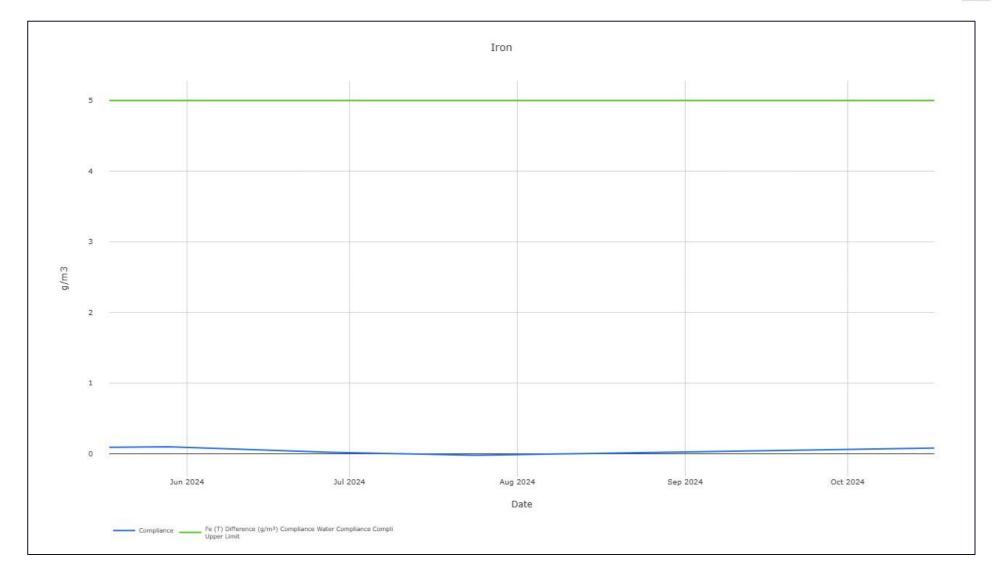


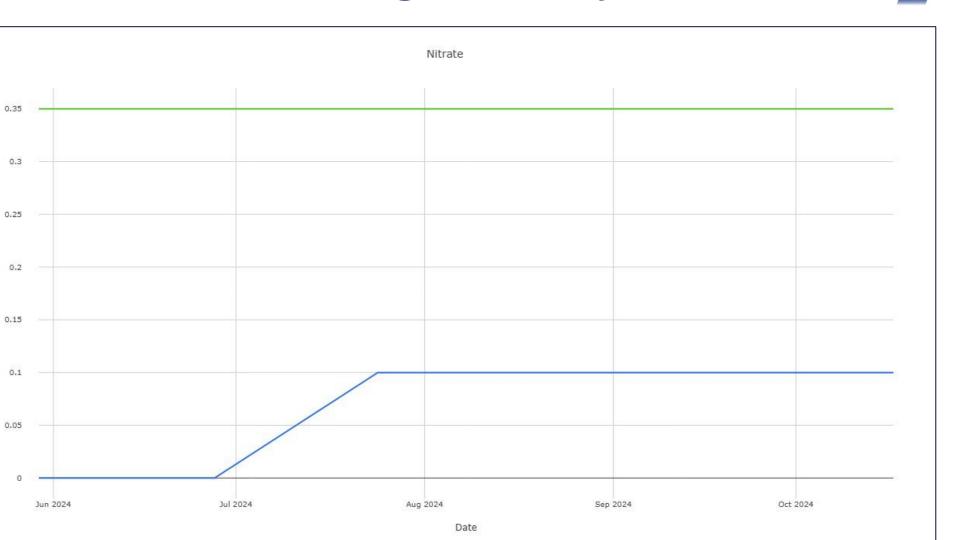




EDERATION MINING





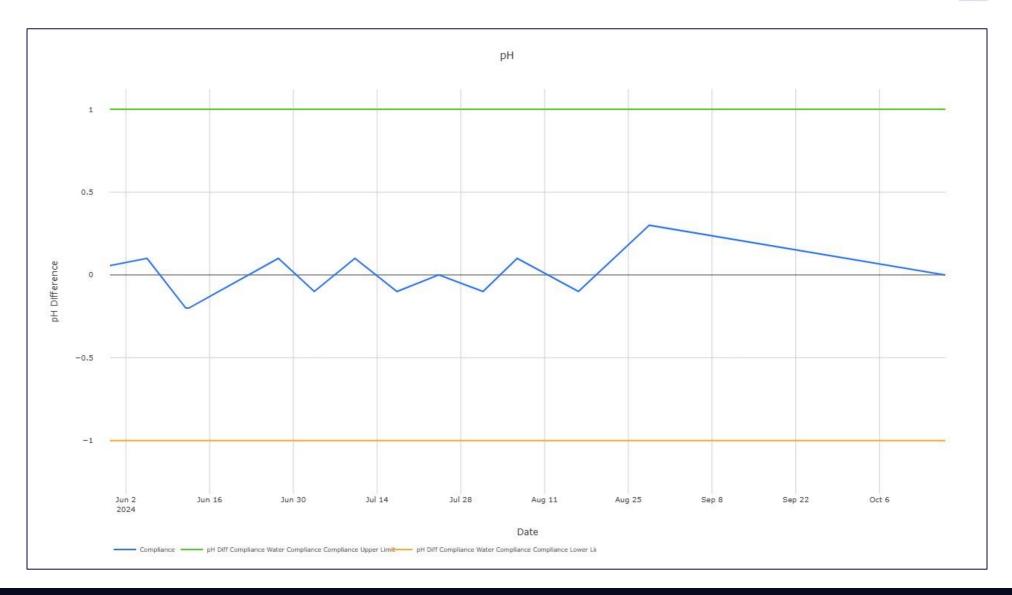


FEDERATION MINING

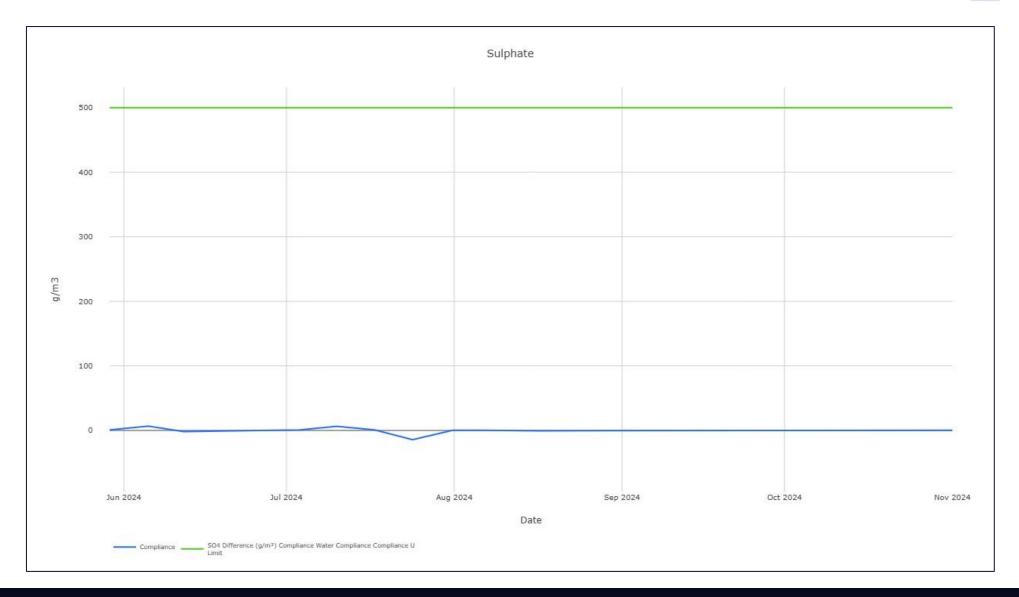
Compliance _____ NO3-N Difference (g/m³) Compliance Water Compliance Compli

g/m3

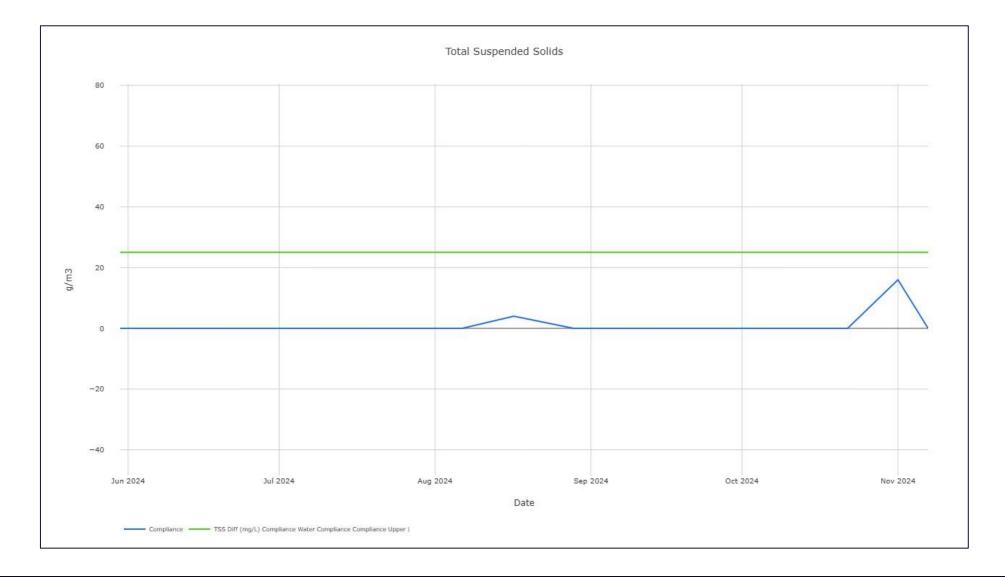












Mine Waste Management Advisory Report



Snowy River Mine

Advisory Group Update – December 2024



- J-NZ0300-007-PPT-RevA
- 4 December 2024





AGENDA

- 1. Geochemistry
- 2. Management Processes
- 3. Performance Monitoring

- MWM has been engaged by Federation to provide the following initial services:
- Column leach testing of materials (waste rock and tailings).
- Development of management processes for geochemistry data (Sample and Analysis Plan: SAP)
- Performance monitoring of groundwater (Review)

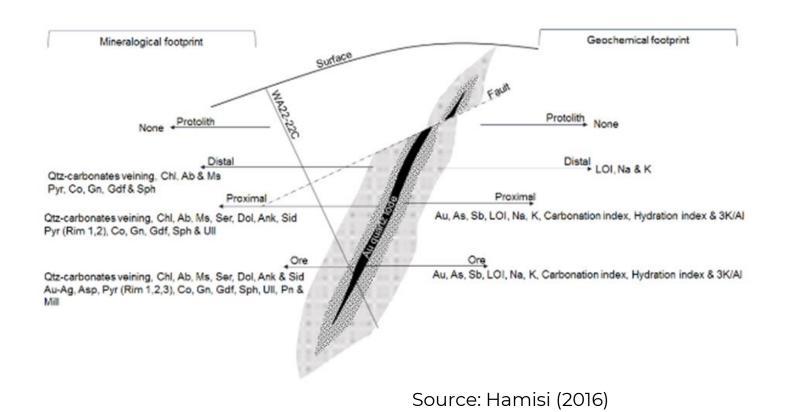




- BACKGROUND: CONSENT REQUIREMENTS:
 - Federation will develop a waste rock block model for the project to determine material quantities, including potentially arsenic generating materials (> 100 ppm As) and proximal materials (20-100 ppm As). Risks need to be understood for the mobility of As by column leach testing.
 - > 100 ppm waste rock (using pXRF);
 - 50 100 ppm waste rock (using pXRF); and
 - Low As materials < 20 ppm (control sample) and therefore representative of low As waste rock.
 - The purpose of this study is to provide additional information on waste rock materials to understand potential geoenvironmental source hazards.



- COLUMN TESTING:
- Three waste rock columns have been started.
- One tailings column will commence shortly (metallurgical test residues).

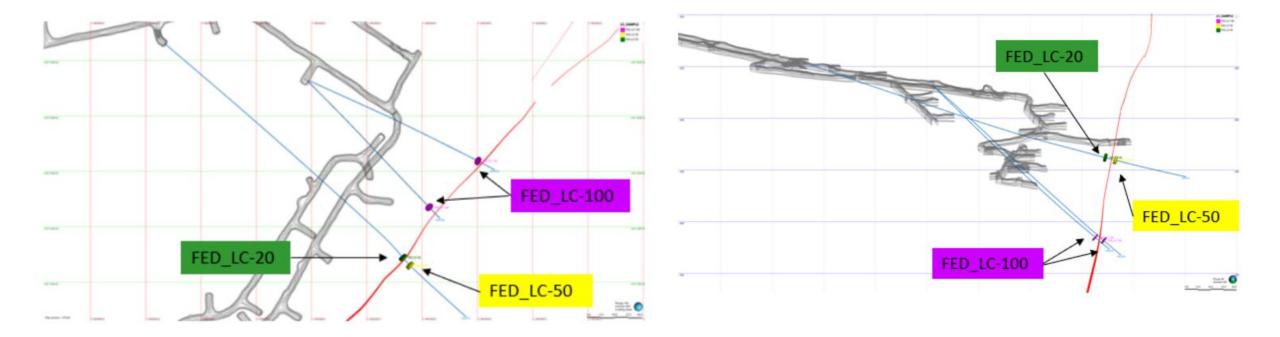








• SAMPLE SELECTION - WASTE ROCK COLUMNS:







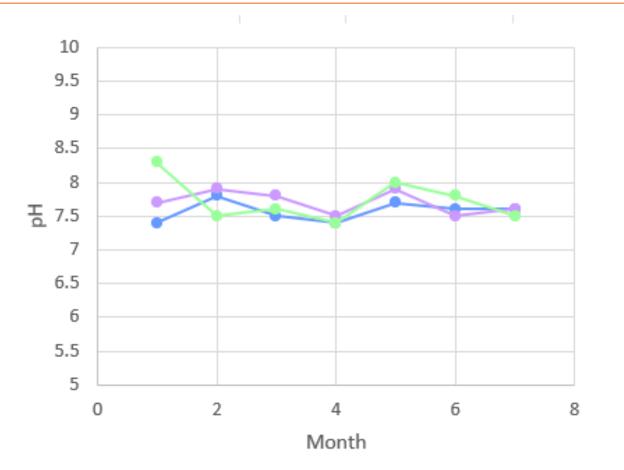
• ABA DATA – COLUMN SAMPLES:

COLUMN SAMPLE ID	As (mg/kg)	S (wt%)	C (wt%)	PASTE pH (1:2)	PASTE EC (1:2)	ANC	MPA	ΝΑΡΡ	NAG pH	NAG 7.0
FED_LC-20	19	0.076	0.57	8.9	240	30	2.3	-28	7	0
FED_LC-50	67.7	0.119	1.38	8.9	260	44	3.6	-41	7	0
FED_LC-100	141.7	0.189	0.73	8.9	270	47	5.8	-41	6.8	1





- COLUMN TESTING WASTE ROCK:
 - 7 months of data (columns to be run for 12 months)
 - Report due after 12 months of data (April / May 2025).







- COLUMN TESTING TAILINGS (METALLURGICAL WORK STILL IN PROGRESS):
- ABA testing and total metal content testing is proposed for the tailings including:
 - Feed
 - Rougher Tails
 - Detoxed Sulfide Tails
- Shake flask extraction to understand water quality from the materials (for modelling purposes).
- Column leach testing to understand longer term geochemical risks (~6-12 months).
- Review of met test results to understand water quality effects.





- SAMPLING AND ANALYSIS PLAN:
- Federation have requested that MWM develop a SAP to manage geochemistry data. This will address:
 - Sample collection and analysis for geochem samples (ore drives and WRS samples).
 - ABA, pXRF, Shake Flask
 - Water treatment sludge sampling and analysis.
 - Total digest and Shake flask
 - Database establishment and management process.
 - QAQC requirements
 - Reporting of data



GROUNDWATER



- GROUNDWATER QUALITY REVIEW:
 - Groundwater is monitored at six monitoring wells, with quarterly sampling events.
 - Standard sampling procedure developed and followed to ensure reliable data is collected.
 - Review initiated to:
 - Better understand spatial and temporal patterns of constituents of interest.
 - Determine level of influence from mine sources (if any).
 - Assess risk of Snowy River non-compliance.





General Business



• Open forum

Stay In Touch

Our Website

www.federationmining.com.au

Mailing List

info@federationmining.com.au

Community Contact Line 03 732 7028

Follow Federation Mining on LinkedIn & Facebook

Portal construction October 2020



