





Update

Description	Progress
VPA with BHCC	Finalised and implemented
Lead Monitoring and Education Program	Approved and implemented
Historic Heritage Management Plan	Feedback from BHCC received 15 April 2021, submitted to DPIE and NSW Heritage Council for consultation and review 20 April 2021.
Rehabilitation Strategy	Submitted to DPIE for review and consultation
Rehabilitation Management Plan	To be developed upon acceptance of RS
Air Quality Management Plan	Second audit undertaken March 2021 and submitted to DPIE
Mine Operating Plan (MOP)	MOPs are now modified to a Rehabilitation Management Plan (RMP) due for submission to Resource Regulator, May 2021
PBH Lead Program Contribution	2021 program actioned













Children under 5 are at the most risk of harm from lead.

2-4 Sulphide Street Broken Hill Ph: 8080 1100



With the reduction in production from Potosi we are currently assessing the potential to progress a MOD 3 application for the North Mine Development Consent with Department of Planning, Industry and Environment (DPIE).

Daily truck numbers from Potosi have reduced from average loads per day of 22.0 in 2018, 16.7 in 2019, 13.9 in 2020 to 11.2 in Q1 2021, a 49% reduction equating to 220,752t per annum variance over the period.

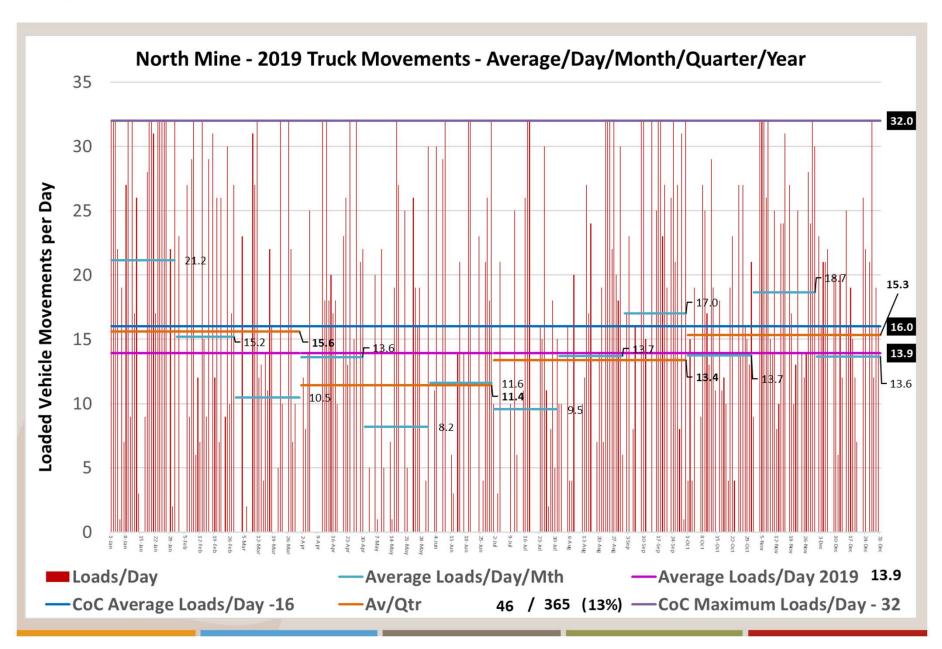
A MOD 3 would be looking at increasing trucking of ore from North Mine to Southern Operations with no material increase in truck numbers due to the reduction in Potosi trucking.

To this end, the North Mine Air Quality data is currently being reviewed by our consultants utilising actual data gathered in the time North Mine has been operating as opposed to the modeled data used in the EIS process. The Human Health Risk Assessment will be reevaluated on the back of the Air Quality review.

Potentially we will be able to increase loaded movements per day without any change in conditions.

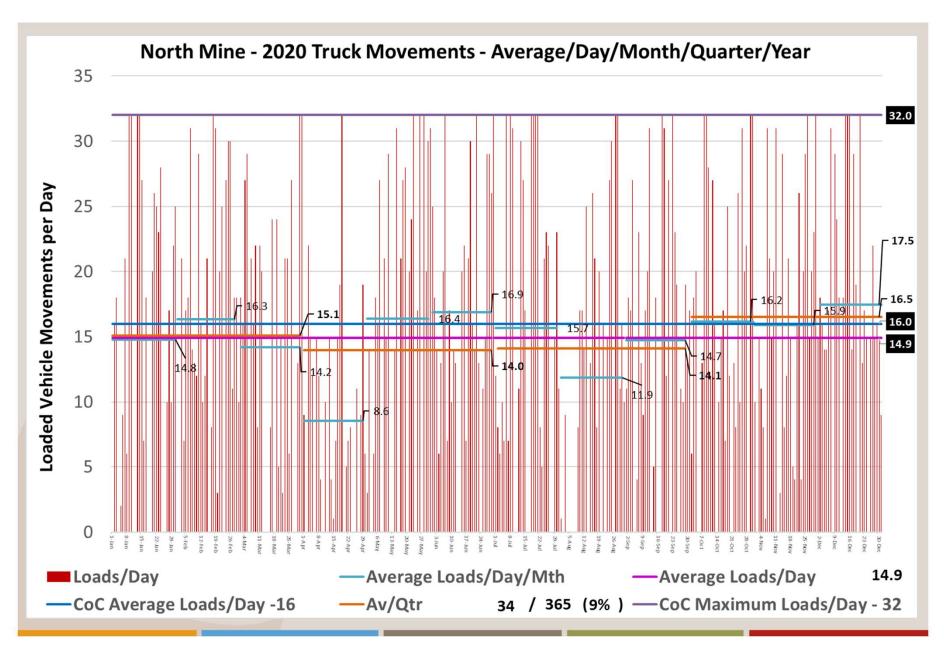


Truck Movements



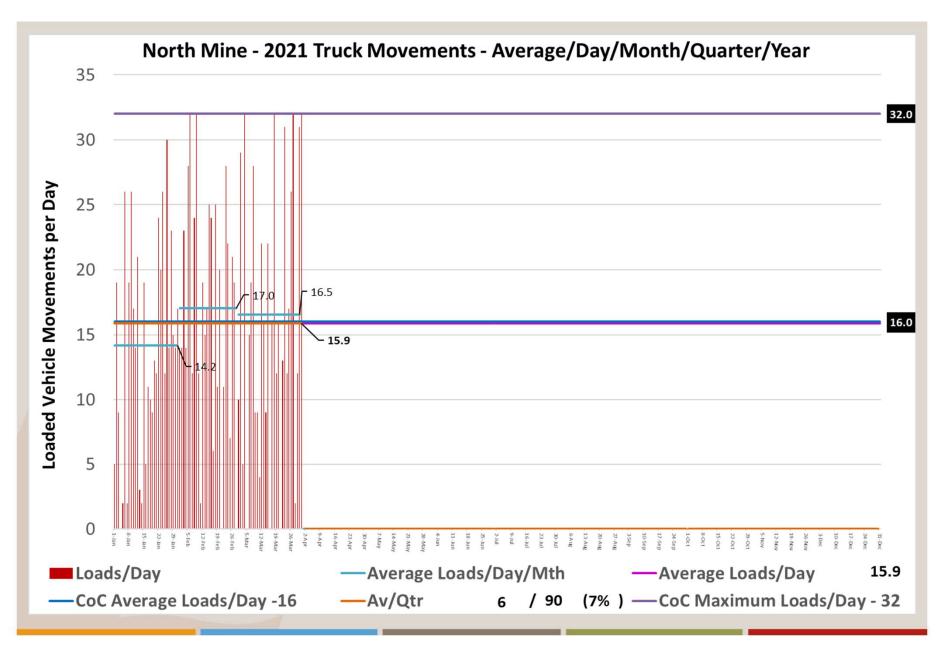


Truck Movements



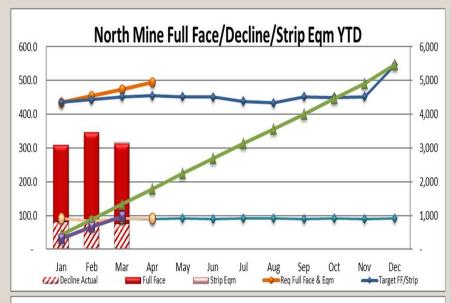


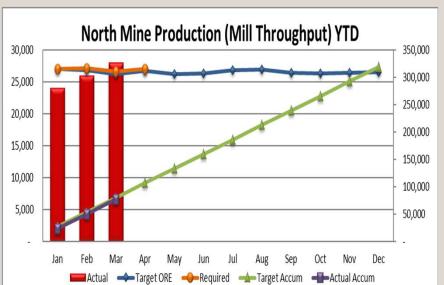
Truck Movements

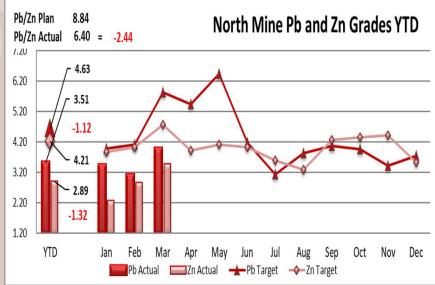


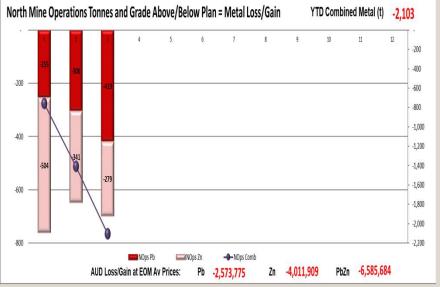












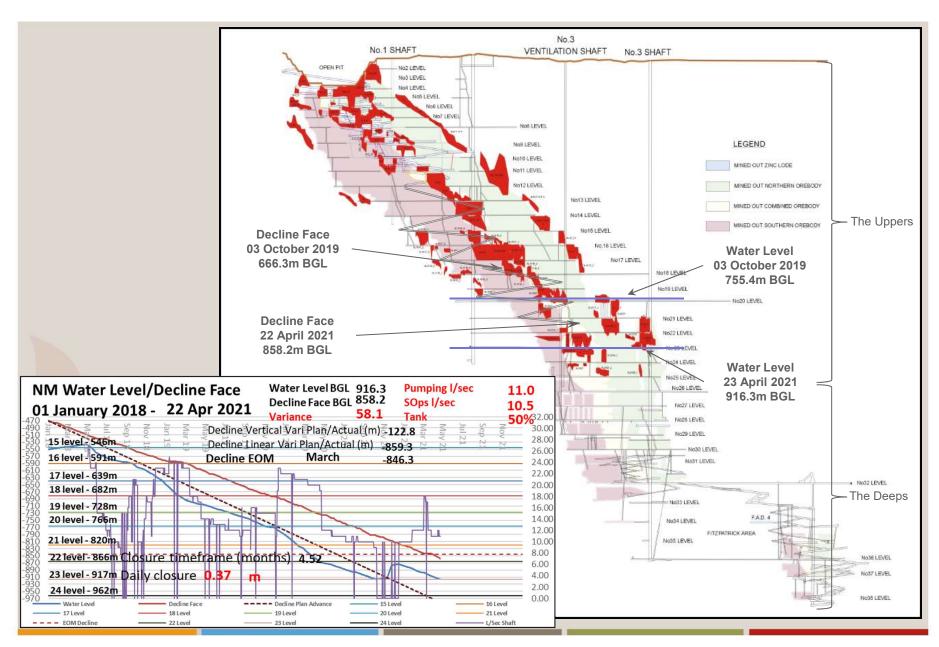


North Mine ROM





North Mine Water











North Mine Project - Community Concerns

Community complaints project to date:

Date	Via	Description	Response
03/10/17	MCC	Noise from trucking	Complaint registered
19/11/17	EPA	Noise from trucking	Instruction issued to workers, no trucking to surface after 19:00, and to limit in-pit tip so far as practicable on night shift
10/04/18	EPA	Noise from equipment	Identified that noise was from shift-start equipment tramming to ramp. Reiterated no trucking to surface after 19:00. Investigating fitment of "surface running" mode on trucks and loaders to limit output on the surface. Investigating having db reading boards displayed so workers can understand potential community impacts
20/04/18	EPA	Low drone noise	Noise monitoring in place, 4 level vent fans turned off to understand impact and if they are noise source.
01/02/19	BDT	Water leak	Plasson fitting split on raw water poly pipe, repaired.

How can community members contact Perilya?

- Mine Control Centre (08) 8088 8999 manned 24/7
- Mail PO Box 5001, Broken Hill NSW 2880
- Security Gate Southern Operations, Wentworth Road, Broken Hill



Next Three Months

Work to be undertaken in the next 3 months:

Description

Continue review work for MOD 3

Complete and submit RMP

Action any improvement items fro AQMP audit.

Continue mining operations

KPI	April	May	June
Ore (t)	26,753	26,161	26,252
Headgrade PbZn	9.36	10.54	8.19
Development (m)	439.5	436.7	436.2
Decline (m)	88.8	91.7	88.8



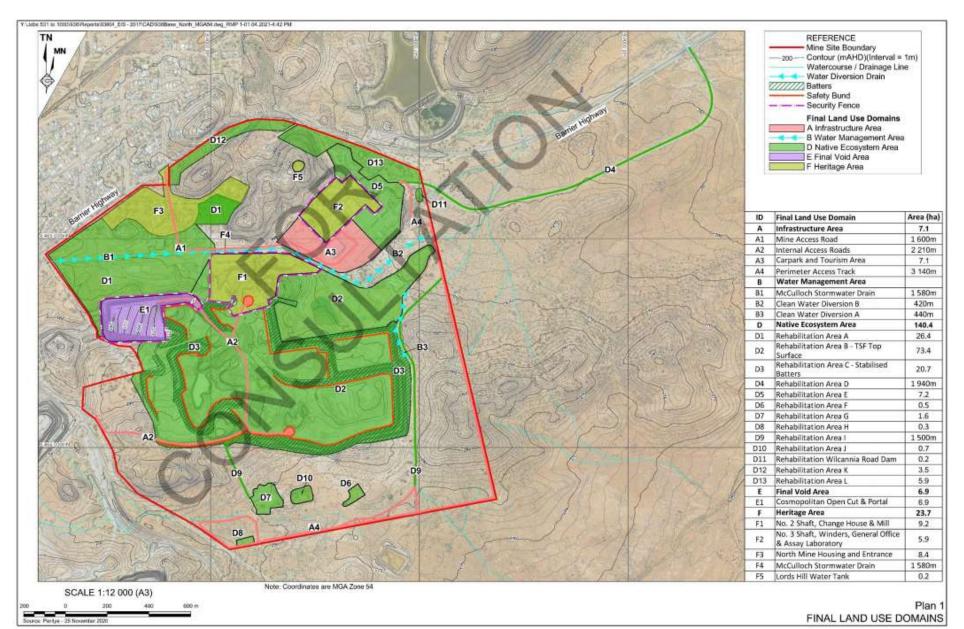






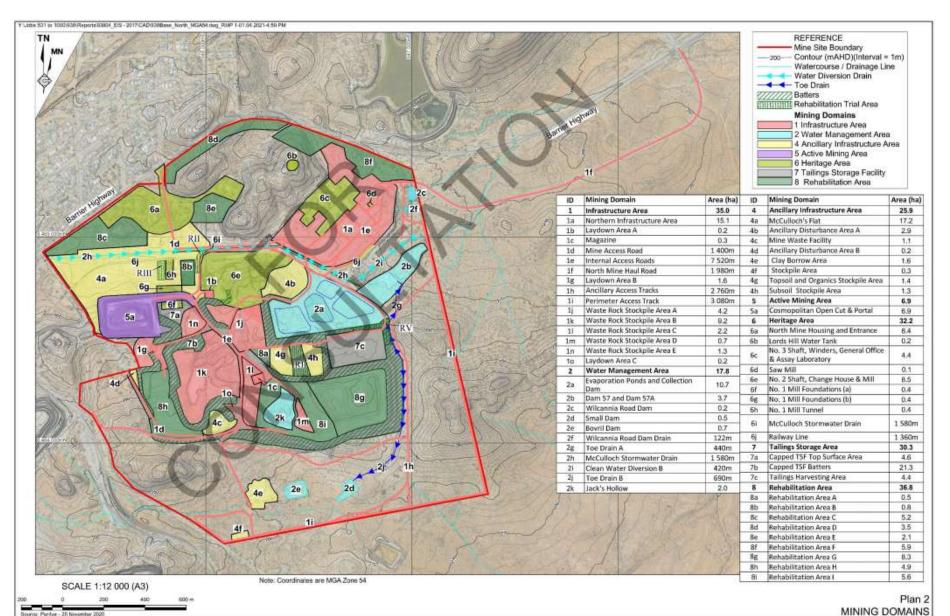


Final Land Use Domains - Plan 1





Mining Domains - Plan 2





Final Land Use Domain	Spatial Reference ¹	Mining Domain	Spatial Reference ²	Rehabilitation Objective	Indicator	Rehabilitation Completion Criteria	Page 1 of Validation Method						
Infrastructure Area	structure A Infrastructure Area, Waste		All infrastructure and services	Presence of infrastructure	All infrastructure removed unless specified to be retained in this Plan.	Single occurrence relinquishment inspection and report, including photographs, following							
Ancillary Infrastructure Area, Heritage Area, Tallings Storage Facility and Rehabilitation Area		use are removed.	Presence of services	All services disconnected unless required for the final land use.	decommissioning.								
			Road width (m)	Roads to be retained are no wider than: 4m where not required for public access; or 8m where roads are to be used for public access (i.e. two 4m lanes).									
					Presence of drill cores	All drill cores removed and taken to either an authorized storage location or a disposal location.	Receipt records from storage or disposal location.						
				Areas are free from contaminants and hazardous materials.	Contamination levels (concentration of key parameters)	Contamination levels are consistent with the target values specified under the Contaminated Site Assessment Procedure.	Single occurrence contamination assessment report prepared by a suitably qualified person in accordance with the Contaminated Site Assessment Procedure, with follow up validation testing to be undertaken if required.						
					Presence of hazardous materials	Hazardous materials managed in accordance with the Hazardous Materials Assessment Procedure.	Single occurrence hazardous materials audit undertaken in accordance with the Hazardous Materials Assessment Procedure, with follow up inspections to be undertaken if required.						
					Presence of waste	All rubbish and waste materials are removed from site or disposed of in areas designated within this Plan.	Single occurrence relinquishment inspection and report, including photographs, following decommissioning.						
				Publicly accessible areas and infrastructure are safe and suitable for use as part of the final land use. Retained infrastructure is safe, stable and non-polluting.						infrastructure are safe and suitable for use as part of the	Presence of safety bunds	Safety bunds are constructed to prevent public access to potentially hazardous landforms (e.g. batters) or sensitive rehabilitation areas.	Single occurrence relinquishment inspection and report, including photographs, following decommissioning.
						Structural integrity of infrastructure	Structural integrity of retained or constructed infrastructure accessible to the public is determined to be suitable and safe as part of the final land use.	Engineering report including photographs and risk assessment verifying that modes of failure are adequately addressed to minimise risks to public safety or the environment.					
					Presence of potential hazards (e.g. electrical, mechanical)	Potential hazards have been effectively isolated and secured.	Statement provided by suitably qualified contractor(s).						
					Presence of appropriate surface materials	All surface materials (i.e. waste rock and growth medium) used to construct surface infrastructure (e.g. safety bunds, retained roads) are considered appropriate for surface use in	Waste rock testing in accordance with the Waste Rock Characterisation Analysis Procedure prior to use for infrastructure construction.						
									accordance with the Waste Rock Characterisation Analysis Procedure and the Soil Characterisation Study.	Soil / growth medium testing in accordance with the Soil Characterisation Study prior to use for infrastructure construction.			
				Visual evidence of erosion	No active erosion observed.	Visual inspections undertaken on a quarterly basis until site relinquishment.							
							Visual inspections undertaken following significant rainfall events (i.e. ≥25mm within 24 hours).						
							Maintenance requirements (cost and frequency of works)	Maintenance levels for retained infrastructure (i.e. access tracks, safety bunds) are commensurate with maintenance requirements for similar structures in Broken Hill.	Annual report detailing infrastructure maintenance costs, including comparison against costs for similar maintenance works within Broken Hill, until relinquishment.				



Final Land Use Domain	Spatial Reference ¹	Mining Domain	Spatial Reference ²	Rehabilitation Objective	Indicator	Rehabilitation Completion Criteria	Validation Method								
Water Management	B Water Management Area	Water Management Area 2		All infrastructure and services not required for the final land	Presence of infrastructure	All infrastructure removed unless specified to be retained.	Single occurrence relinquishment inspection and report, including photographs, following								
Area		use are removed.	Presence of services	All services disconnected unless required for the final land use.	decommissioning.										
				Areas are free from contaminants and hazardous materials.	Contamination levels (concentration of key parameters)	Contamination levels are consistent with the target values specified under the Contaminated Site Assessment Procedure.	Single occurrence contamination assessment report prepared by a suitably qualified person in accordance with the Contaminated Site Assessment Procedure, with follow up validation testing to be undertaken if required.								
					Presence of hazardous materials	Hazardous materials managed in accordance with the Hazardous Materials Assessment Procedure.	Single occurrence hazardous materials audit undertaken in accordance with the Hazardous Materials Assessment Procedure, with follow up inspections to be undertaken if required.								
					Presence of waste	All rubbish and waste materials are removed from site or disposed of in areas designated within this Plan.	Single occurrence relinquishment inspection and report, including photographs, following decommissioning.								
			Retained water management structures are safe, stable and	Visual evidence of erosion	No active erosion is observed.	Visual inspections undertaken on a quarterly basis until site relinquishment.									
				provide for long-term water management.			Visual inspections undertaken following significant rainfall events (i.e. ≥25mm within 24 hours).								
										<	<		<	Maintenance requirements (cost and frequency of works)	Maintenance levels for retained water management infrastructure (i.e. sediment dams, water diversion drains, toe drains and creek diversions) are commensurate with maintenance requirements for similar structures in Broken Hill.
										Presence of stabilised spillways	Stabilised spillways are present at locations where water is discharged off site from water management structures.	Single occurrence relinquishment inspection and report, including photographs, following decommissioning.			
			3	,	ř	Retained water management structures are non-polluting.		Water quality (pH, EC, total suspended solids, major ions, dissolved metals and metalloids)	Water quality samples from sediment dams, water diversion drains and toe drains demonstrate water quality parameter levels within 10% of analogue site levels (or better) on three consecutive occasions.	Water quality testing undertaken on a campaign basis (i.e. following recorded flows in drainage system or captured in dams).					
							1	Water quality samples collected downstream of creek diversions and water diversion drains demonstrate water quality parameter levels within 10% of 'upstream' levels (or better) on three consecutive occasions.	Water quality testing undertaken on a campaign basis (i.e. following recorded flows in drainage system or captured in dams).						
Recreation Area	С	Ancillary Infrastructure Area	4,8	All infrastructure and services not required for the final land	Presence of infrastructure	All infrastructure removed unless specified to be retained.	Single occurrence relinquishment inspection and report, including photographs, following								
			ž	use are removed.	Presence of services	All services disconnected unless required for the final land use.	decommissioning.								
				Areas are free from contaminants and hazardous materials.	Contamination levels (concentration of key parameters)	Contamination levels are consistent with the target values specified under the Contaminated Site Assessment Procedure.	Single occurrence contamination assessment report prepared by a suitably qualified person in accordance with the Contaminated Site Assessment Procedure, with follow up validation testing to be undertaken if required.								
					8	Presence of hazardous materials	Hazardous materials managed in accordance with the Hazardous Materials Assessment Procedure.	Single occurrence hazardous materials audit undertaken in accordance with the Hazardous Materials Assessment Procedure, with follow up inspections to be undertaken if required.							



Draft Rehabilitation Objectives and Rehabilitation Completion Criteria - North Mine

Dans 2 of d

Final Land Use Domain	Spatial Reference ¹	Mining Domain	Spatial Reference ²	Rehabilitation Objective	Indicator	Rehabilitation Completion Criteria	Validation Method
Recreation Area (Cont'd)	С	Ancillary Infrastructure Area	4, 8	Areas are free from contaminants and hazardous materials.	Presence of waste	All rubbish and waste materials are removed from site or disposed of in areas designated within this Plan.	Single occurrence relinquishment inspection and report, including photographs, following decommissioning.
				Areas are safe and suitable for use as part of the final land use.	Structural integrity of infrastructure	Structural integrity of retained or constructed infrastructure accessible to the public is determined to be suitable and safe as part of the final land use.	Engineering report including photographs and risk assessment verifying that modes of failure are adequately addressed to minimise risks to public safety or the environment.
			:		Maintenance requirements (cost and frequency of works)	Maintenance levels for retained infrastructure (i.e. parking areas, sporting grounds, water features, buildings) are commensurate with maintenance requirements for similar structures in Broken Hill.	Annual report detailing infrastructure maintenance costs, including comparison against costs for similar maintenance works within Broken Hill, until relinquishment.
				Areas are accessible to the public and provide recreational value to the community as part of Broken Hill's parks system.	Ownership and management of recreational areas	Recreational areas are incorporated into Broken Hill City Council's parks system.	Confirmation from Broken Hill City Council that ongoing management and maintenance of recreational areas is the responsibility of Broken Hill City Council.
Native Ecosystem	D	Infrastructure Area, Water Management Area, Waste	1, 2, 3, 4, 5, 6, 7, 8	All infrastructure and services not required for the final land	Presence of infrastructure	All infrastructure removed unless specified to be retained.	Single occurrence relinquishment inspection and report, including photographs, following
Area	Rock Emplacement Area, Ancillary Infrastructure Area,		-1,0000	use are removed.	Presence of services	All services disconnected unless required for the final land use.	decommissioning.
		Area, Tailings Storage Facility and Rehabilitation Area	Storage	Areas are free from contaminants and hazardous materials.	Contamination levels (concentration of key parameters)	Contamination levels are consistent with the target values specified under the Contaminated Site Assessment Procedure,	Single occurrence contamination assessment report prepared by a suitably qualified person in accordance with the Contaminated Site Assessment Procedure, with follow up validation testing to be undertaken if required.
					Presence of hazardous materials	Hazardous materials managed in accordance with the Hazardous Materials Assessment Procedure.	Single occurrence hazardous materials audit undertaken in accordance with the Hazardous Materials Assessment Procedure, with follow up inspections to be undertaken if required.
					Presence of waste	All rubbish and waste materials are removed from site or disposed of in areas designated within this Ptan.	Single occurrence relinquishment inspection and report, including photographs, following decommissioning.
				Final landforms are safe, stable and non-polluting and residual waste materials are contained and/or encapsulated and do not pose any hazards or constraints for the final land use.	Presence of safety bunds	Safety bunds are constructed to prevent public access to potentially hazardous landforms (e.g. batters) or sensitive rehabilitation areas.	Single occurrence relinquishment inspection and report, including photographs, following decommissioning.
					Presence of appropriate surface materials	All surface materials (i.e. waste rock and growth medium) used to construct surface infrastructure (e.g. safety bunds, retained roads and final landform surfaces are considered appropriate for surface use in accordance with the Waste Rock Characterisation Analysis Procedure and the Soil Characterisation Study.	Waste rock testing in accordance with the Waste Rock Characterisation Analysis Procedure prior to use for infrastructure construction.
							Soil / growth medium testing in accordance with the Soil Characterisation Study prior to use for infrastructure construction.
					Landform design specifications	Quality assurance records verify that capping has been constructed in accordance with design specifications relevant to site risks and final land use.	As constructed surveys, quality assurance records for construction, inspection report prepared by a suitably qualified engineer, and geotechnical reports (where required).
						Waste rock emplacement and tailings storage facility top surfaces are profiled to create an undulating surface consisting of "run-off" and "run-on" zones to support store and release capping function.	Single occurrence relinquishment inspection and report, including photographs, following landform profiling and growth medium placement.



Final Land Use Domain	Spatial Reference ¹	Mining Domain	Spatial Reference ²	Rehabilitation Objective	Indicator	Rehabilitation Completion Criteria	Validation Method										
Native Ecosystem Area (Cont'd)	ative D Infrastructure Area, Water Management Area, Waste Rock Emplacement Area, Ancillary Infrastructure Area, Active Mining Area, Heritage Area, Tailings Storage Facility and Rehabilitation	7, 8 stable and non-polluting and	suspended solids, major	Surface water monitoring verifies adequate capping function (i.e. stabilisation, store and release cover).	Water quality testing undertaken on a campaign basis (i.e. following recorded flows in drainage system or captured in dams).												
			contained and/or encapsulated and do not pose any hazards or constraints for the final land use.	metalloids)	Surface water monitoring verifies adequate containment of waste materials and that seepage / leachate is not contributing to land or groundwater contamination.												
		Area				Groundwater monitoring verifies adequate capping function (i.e. stabilisation, store and release cover).	Groundwater quality sampling undertaken quarterly for a minimum of two years following the cessation of mining operations.										
						Groundwater monitoring verifies adequate containment of waste materials and that seepage / leachate is not contributing to land or groundwater contamination.											
					Visual evidence of erosion or landform instability	No evidence of active erosion or other landform instability (e.g. mass movement) that would	Visual inspections undertaken on a quarterly basis until site relinquishment.										
					100		require moderate or significant maintenance is observed.	Visual inspections undertaken following significant rainfall events (i.e. ≥25mm within 24 hours).									
				1	Biophysical process indices	Biophysical process indicators (stability index and infiltration index) are equivalent to or better than those recorded for relevant analogue site types (i.e. Northern Flats, Southern Flats or Rocky Ridges) ³ .	Ecosystem Function Analysis surveys undertaken within two years following rehabilitation, with subsequent surveys undertaken every three years until target values are achieved.										
				Ve bis looses	Vegetation communities and biophysical processes support long-term stability of established native ecosystem areas.	V b le		Growth medium depth	Growth medium development in accordance with outcomes of the Growth Medium Development Study in areas designated for Northern Flat, Southern Flat and Rocky Ridge ³ vegetation communities, as outlined in this Plan.	Visual inspections, including test pits and photographs demonstrating growth medium depth, growth medium treatment and key biophysical indicators in accordance with the Growth Medium Development Study.							
													biop long esta		Surface treatment	Growth medium applied to Waste Rock Emplacement batters is integrated into underlying waste rock material through contour ripping.	Visual inspections, including test pits and photographs demonstrating growth medium depth and integration, following growth medium application.
															biophysical processes si long-term stability of established native ecosy	biophysical processes support long-term stability of established native ecosystem	Vegetation community characteristics and biophysical process indices
										Plant survival and recruitment	Plant survival and recruitment are suitable for sustaining the target vegetation community type.						
					Grazing impacts (foliage cover (%) and plant mortality)	Grazing impacts within rehabilitated areas are equal to or less than those observed at analogue sites.											
					Presence of priority weed species (e.g. high threat, noxious, invasive, or weed of	Weed abundance within rehabilitated areas is equal to or less than that observed at analogue sites.	Annual weed inspections and reports, including photographs, detailing observed weed occurrence (species and extent) and										
					national significance) or excessive weed abundance	Priority weeds (e.g. Weeds of National Significance) are not present within rehabilitation areas.	control measures implemented, until relinquishment.										



Final Land Use Domain	Spatial Reference ¹	Mining Domain	Spatial Reference ²	Rehabilitation Objective	Indicator	Rehabilitation Completion Criteria	Validation Method								
Native Ecosystem Area (Cont'd)	D	Infrastructure Area, Water Management Area, Waste Rock Emplacement Area, Ancillary Infrastructure Area, Active Mining Area, Heritage Area, Tailings Storage Facility and Rehabilitation Area	1, 2, 3, 4, 5, 6, 7, 8	Risks to the community, environment and infrastructure have been addressed as part of rehabilitation.	Presence of bushfire controls	Appropriate bushfire hazard controls implemented, where required, on the advice from the NSW Rural Fire Service.	Single occurrence relinquishment inspection and report, including photographs, following decommissioning.								
Final Void Area	E	Active Mining Area	Active Mining Area	.5	Final void landforms are safe, stable and inaccessible.	Geotechnical stability of final void landforms	Geotechnical assessment determines that the retained void walls are not likely to actively erode or 'slip' to an extent requiring further earthworks.	Single occurrence geotechnical assessment and report prepared by a suitably qualified person following establishment of final landform, with follow up assessment to be undertaken in the event that further earthworks are required.							
					Presence of safety bunds around final voids	Safety bunds are present around the perimeter of final voids.	Single occurrence relinquishment inspection and report, including photographs, following								
					Presence of security fences around final voids	Security fences are present around the perimeter of final voids.	decommissioning.								
						1	Presence of capped and/or backfilled portals and shafts	Portals and shafts are sealed with concrete plugs and backfilled to prevent access.	Single occurrence relinquishment inspection and report, including photographs, following decline/shaft backfilling.						
			Final void landforms are non-polluting. Sufficient licence shares a held in the water source to account for final void water	< 1			Single occurrence relinquishment inspection and report, including photographs, following sealing.								
				contaminants and hazardous materials. Final void landforms are			co ma		r I	contaminants and hazardous materials. Final void landforms are	contaminants and hazare	contaminants and hazardous	Contamination levels (concentration of key parameters)	Contamination levels are consistent with the target values specified under the Contaminated Site Assessment Procedure.	Single occurrence contamination assessment report prepared by a suitably qualified person in accordance with the Contaminated Site Assessment Procedure, with follow up validation testing to be undertaken if required.
											Presence of hazardous materials	Hazardous materials managed in accordance with the Hazardous Materials Assessment Procedure.	Single occurrence hazardous materials audit undertaken in accordance with the Hazardous Materials Assessment Procedure, with follow up inspections to be undertaken if required.		
														57.00	
									Presence of appropriate surface materials	All surface materials (i.e. waste rock and growth medium) used to construct surface infrastructure (e.g. safety bunds, retained roads) are considered appropriate for surface use in	Waste rock testing in accordance with the Waste Rock Characterisation Analysis Procedure prior to use for infrastructure construction.				
							accordance with the Waste Rock Characterisation Analysis Procedure and the Soil Characterisation Study.	Soil / growth medium testing in accordance with the Soil Characterisation Study prior to use for infrastructure construction.							
					Groundwater quality (pH, TDS, dissolved metals and metalloids)	Groundwater quality monitoring results demonstrate parameter levels within 10% of baseline groundwater quality monitoring results over four consecutive monitoring periods for final voids containing permanent water bodies.	Groundwater quality sampling undertaken quarterly for a minimum of two years following the cessation of mining operations.								
				Sufficient licence shares are held in the water source to account for final void water take, where required.	Water approval / licence or advice from relevant government agency	Final void water take is appropriately accounted for.	Confirmation from relevant government agency that water approvals / licences have been granted or are not required.								



Final Land Use Domain	Spatial Reference ¹	Mining Domain	Spatial Reference ²	Rehabilitation Objective	Indicator	Rehabilitation Completion Criteria	Validation Method					
Heritage Area	F	Infrastructure Area, Ancillary Infrastructure Area, Heritage Area, Tailings Storage	1, 4, 6, 7, 8, 9	Heritage areas are safe and secure.	Presence of infrastructure	Security fences are constructed around the perimeters of designated heritage areas as specified in this Plan.	Single occurrence relinquishment inspection and report, including photographs, following decommissioning.					
		Facility, Rehabilitation Area and Residential Area	8	Areas are free from contaminants and hazardous materials.	Contamination levels (concentration of key parameters)	Contamination levels are consistent with the target values specified under the Contaminated Site Assessment Procedure.	Single occurrence contamination assessment report prepared by a suitably qualified person in accordance with the Contaminated Site Assessment Procedure, with follow up validation testing to be undertaken if required.					
						Presence of hazardous materials	Hazardous materials managed in accordance with the Hazardous Materials Assessment Procedure.	Single occurrence hazardous materials audit undertaken in accordance with the Hazardous Materials Assessment Procedure, with follow up inspections to be undertaken if required.				
				Heritage items are appropriately managed and preserved as part of the final landform. Heritage items are accessible as a resource for educational and tourism purposes.		Prese	Presence of waste	All rubbish and waste materials are removed from site or disposed of in areas designated within this Plan.	Single occurrence relinquishment inspection and report, including photographs, following decommissioning.			
							appro	a	appropriately managed and preserved as part of the final	Compliance with the Heritage Implementation Plan	All identified heritage items are managed in accordance with the relevant management categories outlined in the Heritage Implementation Plan, including:	Annual inspections and reports detailing management measures undertaken for ea- heritage item, including an assessment of compliance with any commitments made in
								1		archival recording and demolition; managed ruin with safety maintenance; conservation with cyclical maintenance; or	the Heritage Implementation Plan, until relinquishment.	
					Compliance with the Heritage Interpretation Plan	continued use. Infrastructure is retained and/or constructed as specified in this Plan to enable safe public access to heritage items and vantage points.	Single occurrence relinquishment inspection and report, including an assessment of compliance with any commitments made in					
						Infrastructure (e.g. information boards) is installed within publicly accessible areas, in accordance with the Heritage Interpretation Plan, to support the interpretation and appreciation of retained heritage items and mine-related landforms.	the Heritage Interpretation Plan, prior to opening the site for public access.					

Note 1: See Plan 1 Note 2: See Plan 2

Note 3: Preliminary Ecosystem Function Analysis assessments were undertaken in December 2020 across 21 monitoring sites, including 10 rehabilitation sites and 11 control (i.e. analogue) sites, established in the vicinity of the Southern Operations and North Mine sites. Future Ecosystem Function Analysis assessments will be expanded to identify key rehabilitation completion criteria benchmark values for dominant vegetation communities based on their landscape position and species composition (i.e. Southern Flats and Rocky Ridges).