

MOUNT PEAKE PROJECT: CONSOLIDATED COMMITMENTS TABLE

No.	COMMITMENT	PERFORMANCE INDICATOR	TIMEFRAME	LOCATION
COMPLIANCE AND REPORTING				
General				
1.	The Environmental Management Plan will be updated and modified prior to implementation of the Project.	<ul style="list-style-type: none"> Environmental Management Plan EMS/ Record keeping 	Pre-production	Draft EIS – App N Environmental MP p32
2.	The Environmental Management Plan and sub-Environmental Management Plans, including the environmental risk assessment, will be reviewed annually and updated, if required.	<ul style="list-style-type: none"> Environmental Management Plan Sub-Environmental Management Plans EMS/ Record keeping 	Construction/ Operations	Draft EIS – App N Environmental MP p24; p32
3.	The Environmental Manager will undertake regular site inspections to assess the Project risk.	<ul style="list-style-type: none"> Audits/ Inspections EMS/ Record keeping Ground Disturbance Permit system Environmental Management Plan 	Construction/ Operations	Draft EIS – App N Environmental MP p36
4.	<p>A Monthly report will be developed by the Environmental Manger throughout the construction and operation phase. The repot will include:</p> <ul style="list-style-type: none"> Assessment of compliance with Project approvals including NT EPA EIS Recommendations, DME Authorisation Approval Conditions and Sub-Management Plans Summary of sub-management plan monitoring data and objectives identifying non-conformances Environmental inspections and auditing results Non-conformance register status Complaints and Feedback register status Environmental performance details including: <ul style="list-style-type: none"> Fuel, water and electricity consumption No deliveries to site Hazardous substances and recyclable material transfers No burns at the landfill Chemicals utilised. 	<ul style="list-style-type: none"> Monthly reporting Audits/ Inspections EMS/ Record keeping Environmental Management Plan Grievance Management Procedure Complaints and Feedback Register Stakeholder Consultation Register 	Construction/ Operations	Draft EIS – App N Environmental MP p36
5.	Internal auditing will be undertaken by the Environmental Manager and/or suitably qualified representative. The audit will assess the implementation of each sub-environmental management plan and or/ EMP requirements.	<ul style="list-style-type: none"> Audits/ Inspections EMS/ Record keeping Environmental Management Plan Reporting 	Construction/ Operations	Draft EIS – App N Environmental MP p39

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	Frequency during construction will be quarterly and biannually during operations.			
6.	<p>Prior to the audit, a checklist will be developed that includes:</p> <ul style="list-style-type: none"> Mitigation / commitment being assessed Compliance with each mitigation measure/ commitment Corrective actions required and responsibility Risks associated with non-compliance Additional mitigation measures 	<ul style="list-style-type: none"> Audit checklist EMS/ Record keeping 	Construction/ Operations	Draft EIS – App N Environmental MP p40
HYDROLOGY				
Hydrocarbon and Hazardous Materials Management				
7.	Management of hazardous substances in accordance with the industry accepted standards (as written in a Hazardous Substances Management Plan).	<ul style="list-style-type: none"> Hazardous Substances Management Plan Mine Management Plan 	Construction/ Operations	Hazardous Substances Management Plan Mine Management Plan
8.	Manage disposal of wastes in accordance with the <i>Waste Management and Pollution Control Act</i> and waste management hierarchy.	<ul style="list-style-type: none"> Training /Inductions Record keeping Audits/ Inspections 	Construction / Operations	Draft EIS – Ch5 Environmental Risk Assessment p19
9.	Hydrocarbon transport will be in compliance with <i>the Dangerous Goods Code</i> . All vehicles will be registered.	<ul style="list-style-type: none"> Contractor agreements Audits/ Inspections 	Construction / Operations	Draft EIS – Ch5 Environmental Risk Assessment p11
10.	Spill clean-up procedures will be developed and implemented.	<ul style="list-style-type: none"> Spill procedures Training and inductions Audits/ Inspections EMS/ Record keeping 	Pre-production	Draft EIS - Ch5 Environmental Risk Assessment p30
11.	<p>A fuel inventory control system will be maintained including:</p> <ul style="list-style-type: none"> Product level measurements compared with dispenser meter readings, deliveries, removals and internal transfers. Reconciliation conducted fortnightly for each individual tank product is added to or removed. Inventory control computations of any loss or gain of product recorded and included with a monthly summary of cumulative losses or gains of product. 	<ul style="list-style-type: none"> EMS/ Record keeping Reporting 	Construction/ Operations	Draft EIS – App N Environmental MP p52
12.	A monthly hazardous substances inventory will be undertaken.	<ul style="list-style-type: none"> Inventory EMS/ Record keeping 	Construction/ Operations	Draft EIS – App N Environmental MP p52
13.	Maintain an inventory of chemicals onsite, Material Safety Data Sheets, spill kits and spill response procedures.	<ul style="list-style-type: none"> EMS/ Record keeping 	Construction / Operations	Draft EIS – Ch5 Environmental Risk Assessment p20

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14.	Diesel will be stored in self-bunded tanks	<ul style="list-style-type: none"> Hazardous Substances Management Plan Audits/ Inspections 	Construction/ Operations	Draft EIS - Ch2 Project Description p25; Ch5 Environmental Risk Assessment p11
15.	A Safety Data Sheets (SDSs) register will be maintained at storage locations and the Site Office. The register will be supplemented when new hazardous substances are brought to site.	<ul style="list-style-type: none"> Audits/ Inspections 	Construction/ Operations	Draft EIS – App N Environmental MP p52
16.	Lubricating oil will be stored in bulk container inside a bunded area with spill protection and recovery.	<ul style="list-style-type: none"> Bunds will meet required specifications for amount of stored liquid. Audits/ Inspections 	Construction / Operations	Draft EIS - Ch2 Project Description p25
17.	Waste hydrocarbons will be stored in a tank within a bunded area to be held for collection by a licensed contractor.	<ul style="list-style-type: none"> EMS/ Record keeping Audits/ Inspections Contractor Agreements Mine Management Plan 	Construction / Operations	Draft EIS - Ch2 Project Description p26; App N Environmental MP p51
18.	Hazardous substances to be stored in Chemical Storage Shed with internal bunding to collect spills and ventilation to prevent the build-up of fumes. These are used for drum storage of oil, petrol and similar materials.	<ul style="list-style-type: none"> Audits/ Inspections 	Construction/ Operations	Draft EIS – App N Environmental MP p51
19.	Fuel (diesel) storage tanks will be soluble skinned and self-bunded and meet environmental guidelines for the safe storage of bulk fuel (AS1692-2006 Steel Tanks for Flammable and combustible Liquids) and AS 1940:2004: The Storage and handling of combustible and flammable liquids.	<ul style="list-style-type: none"> Environmental Management Plan Audits/ Inspections 	Construction/ Operations	Draft EIS – App N Environmental MP p51
20.	Storage of Intermediate Bulk Containers at the landfill will not exceed 1,000 L at any one time.	<ul style="list-style-type: none"> Environmental Management Plan Audits/ Inspections 	Construction/ Operations	Draft EIS – App N Environmental MP p51
21.	Personnel will be trained in the appropriate handling of hazardous material and in clean-up procedures in the event of a spill.	<ul style="list-style-type: none"> Training/Inductions Spill kits in all vehicles and at workshops 	Construction / Operations	Draft EIS – Ch5 Environmental Risk Assessment – p11
22.	All mining equipment refuelled, serviced and repaired within designated areas outlined for such activity.	<ul style="list-style-type: none"> Training/ Inductions Audits/ Inspections 	Operations	Draft EIS - Ch5 Environmental Risk Assessment p30
23.	Regular inspections of storages, tanks and bulk containers and the integrity of bunded areas and containment systems.	<ul style="list-style-type: none"> Audits/ Inspections EMS/ Record keeping 	Construction / Operations	Draft EIS – Ch5 Environmental Risk Assessment p20
24.	Hazardous substances stored minimum of 10 m from surface water and 50 m from groundwater wells.	<ul style="list-style-type: none"> Audits/ Inspections Environmental Management Plan 	Construction/ Operations	Draft EIS – App N Environmental MP p51

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25.	All vehicles will carry appropriate equipment to respond to a hydrocarbon spill, including PPE.	<ul style="list-style-type: none"> Audits/ Inspections Training 	LOM	Draft EIS – Ch5 Environmental Assessment p11 Risk
26.	Spill kits will be located at all hazardous substance storage locations	<ul style="list-style-type: none"> Audits/ Inspections 	Construction/ Operations	Draft EIS – App N Environmental MP p54
27.	Monthly inspections of hazardous substance location to ensure spill kits are present/contain sufficient materials for potential spillages.	<ul style="list-style-type: none"> Audits/ Inspections EMS/ Record keeping 	Construction/ Operations	Draft EIS – App N Environmental MP p51
Potential for AMD in Mined/Stored Material				
28.	AMD will be managed in accordance with an AMD Management Plan	<ul style="list-style-type: none"> AMD Management Plan Audits/ Inspections 	Operations	Draft EIS – Ch5 Environmental Assessment – p19; p50 Risk
29.	The AMD MP will be revised annually until two years after closure of the pit. Any activity not previously authorised under the approved plan will be incorporated into a revised plan for review and approval by the appropriate authorities.	<ul style="list-style-type: none"> AMD Management Plan 	LOM	Supplement – App F AMD Assessment p26
30.	To improve confidence in data sets, additional sampling and analysis will be undertaken as detailed in the site procedure in the AMD Management Plan. The results will be used to validate AMD risk and management strategies in subsequent revisions of the document.	<ul style="list-style-type: none"> AMD Management Plan Monitoring results EMS/ Record keeping 	Pre-production	Draft EIS – App O AMD Assessment and MP p36
31.	Details of the waste rock management process will be further developed in the Mine Management Plan (MMP) which will be submitted at a later date.	<ul style="list-style-type: none"> Mine Management Plan AMD Management Plan Waste characterisation 	Pre-production	Supplement – App F AMD Assessment p2
32.	Pre-production testing for PAF will be undertaken.	<ul style="list-style-type: none"> AMD Management Plan Waste characterisation report EMS/ Record keeping 	Pre-production	Draft EIS - Ch2 Project Description p29
33.	The following would be monitored for AMD during mining: <ul style="list-style-type: none"> In-situ material scheduled for mining; Constructed landforms; being WRDs, the ROM Pad, ore stockpiles; Water (surface water and groundwater). 	<ul style="list-style-type: none"> AMD Management Plan EMS/ Record keeping 	Operations	Supplement – App F AMD Assessment p24
34.	Additional geochemical data collection will be carried out as part of the pre-production phase of the project. The sampling plan will be based on the assumption that, as a minimum S, Ca, Mg and As will be analysed as part of the standard AMD suite during any additional infill drilling and sampling. Additional metals (AL, Pb, Zn, Cu, Cr, Cd)	<ul style="list-style-type: none"> AMD Management Plan Mine Management Plan 	Pre-production	Supplement – App F AMD Assessment p24

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	should also be included, especially those identified as elevated within the groundwater).			
35.	The results of analyses and monitoring for PAF will be reviewed to develop a revised potential acidity assessment of the ore and waste.	<ul style="list-style-type: none"> Monitoring results AMD Management Plan 	Operations	Draft EIS - Ch2 Project Description p29
36.	A program of regular testing as part of ongoing grade control and regular updating of the AMD model will be undertaken (ongoing waste characterisation).	<ul style="list-style-type: none"> Annual reporting Monitoring results EMS/ Record keeping AMD Management Plan 	Operations	Draft EIS - Ch2 Project Description p29
37.	Selective handling / treatment of PAF material identified will occur (e.g. encapsulation and/or neutralisation).	<ul style="list-style-type: none"> Groundwater monitoring results Record keeping/ reporting AMD Management Plan 	Operations	Draft EIS - Ch5 Environmental Risk Assessment p19
38.	Identify suitable cover/capping/encapsulation material and testing for dispersion, exchangeable cation and general capping geotechnical parameters.	<ul style="list-style-type: none"> Mine Closure Plan EMS/ Record keeping AMD Management Plan 	Pre-production	Draft EIS - App O AMD Assessment and MP p36
39.	Conduct laboratory static NAG and NAPP testing including sulfate (or chromium reducible) sulphur.	<ul style="list-style-type: none"> Laboratory results EMS/ Record keeping AMD Management Plan 	Pre-production	Draft EIS - App O AMD Assessment and MP p36
40.	Kinetic NAG testing to confirm relative availability over time of acid-generating and neutralising capacity and to provide an indication of likely reaction times.	<ul style="list-style-type: none"> Laboratory results EMS/ Record keeping AMD Management Plan 	Pre-production	Draft EIS - App O AMD Assessment and MP p36
41.	Column and or barrel leach tests to commence to provide long term leachate generation information.	<ul style="list-style-type: none"> Test results EMS/ Record keeping AMD Management Plan 	Pre-production	Draft EIS - App O AMD Assessment and MP p36
42.	Additional metals (ICPMS scan) to be added to the leachate and groundwater suites to cover the full range of likely contaminants.	<ul style="list-style-type: none"> Monitoring results Water Management Plan AMD Management Plan 	Pre-production	Draft EIS - App O AMD Assessment and MP p36
43.	Additional metals to be added to laboratory and field XRF analyses to cover the range of potentially elevated or mobile metals.	<ul style="list-style-type: none"> Monitoring results Water Management Plan AMD Management Plan 	Pre-production	Draft EIS - App O AMD Assessment and MP p36
44.	Blasthole geochemical analysis to determine whether any material is PAF will be undertaken by having XRF analysis in an onsite laboratory or by handheld XRF with the appropriate calibrated range of analytes, level of reporting and resolution.	<ul style="list-style-type: none"> AMD Management Plan Mine Management Plan 	Pre-production	Supplement - App F AMD Assessment p24

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Borefield				
45.	Bore pumps will be powered by a powerline reticulating power from the mine site power station, thereby removing any requirement to store diesel at the borefield.	<ul style="list-style-type: none"> Borefield Management Plan 	Construction/ Operations	APM Supplement - Risk Assessment Table
46.	Determination of design criteria for elevated drill pads for protection of well casings and headworks, which are stable under saturated conditions and protected against likely flooding and erosion.	<ul style="list-style-type: none"> Water Management Plan Audits/ Inspections Borefield Management Plan 	Pre-production	Draft EIS – App F Groundwater and Surface Water Assessment Report p vi
GROUNDWATER				
General				
47.	Management of groundwater drawdown in accordance with a Water Management Plan and a Borefield Management Plan (to be produced).	<ul style="list-style-type: none"> Water Management Plan Borefield Management Plan 	Construction/ Operations	Water Management Plan Borefield Management Plan
48.	Make good agreement with the owners prior to the development of the borefield. This could involve deepening of the existing bore, lowering the pump setting, drilling another bore next to the existing bore, or supplying the required water demand from external sources.	<ul style="list-style-type: none"> Stakeholder consultation Baseline assessment data Borefield Management Plan 	Construction	Draft EIS – Ch5 Environmental Risk Assessment p17
49.	Dry stacking of tailings within the IWL. Recovery of water from tails to the process water pond.	<ul style="list-style-type: none"> Mine Management Plan 	Operation	Risk Assessment Table
50.	Appropriate IWL geotechnical design that considers potential rainfall events, and materials characteristics.	<ul style="list-style-type: none"> Mine Management Plan Audits/ Inspections 	Construction	Risk Assessment Table
51.	Exploration drill holes that may act as conduits with mine features will be rehabilitated.	<ul style="list-style-type: none"> Mine Closure Plan Progressive rehabilitation 	As required	Draft EIS – Ch5 Environmental Risk Assessment p18
52.	If significant impacts associated with lowering of the groundwater table are identified, mitigation options will be considered, including modification of the pumping regime to manage groundwater levels.	<ul style="list-style-type: none"> Monitoring Data Annual reporting Water Management Plan Borefield Management Plan 	Operations	Draft EIS - Ch 8 Biodiversity p14
53.	The Raw Water Dam and Process Water Dam will be lined with a synthetic membrane to prevent seepage.	<ul style="list-style-type: none"> Audits/ Inspections 	Construction / Operations	Draft EIS - Ch2 Project Description p23
54.	A groundwater monitoring system will be installed around the integrated waste rock landform/ processing area.	<ul style="list-style-type: none"> Audits/ Inspections Water Management Plan 	Construction	Draft EIS - Ch2 Project Description p34

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Assessment of Groundwater Impacts				
55.	Establish monitoring network to monitor groundwater levels and groundwater quality.	<ul style="list-style-type: none"> Monitoring results 	Monitoring network will be constructed in stages in parallel with production bores.	Draft EIS – Ch5 Environmental Risk Assessment p14; p17; Ch 7 – Water Resources p26
56.	A monitoring well will be located at each production bore and approximately 4 monitoring wells will be located between selected production bores. Monitoring bores will also be installed north and south of the borefield to assess the full range of impacts from pumping.	<ul style="list-style-type: none"> Audits/ Inspections Annual reporting Monitoring results 	Construction	Ch 7 – Water Resources p26
57.	Monitoring will occur of existing bores in regional locations outside of the modelled extent of drawdown as control bores.	<ul style="list-style-type: none"> Monitoring results Annual reporting Stakeholder agreements (pastoral bores) 	Construction/ Operations	Ch 7 – Water Resources p26
58.	A monitoring bore will be located adjacent to Mud Hut Swamp to monitor groundwater levels.	<ul style="list-style-type: none"> Monitoring results Annual reporting 	Construction/ Operations	APM Supplement – EIS Addendum Section 4.3.5
59.	Monitoring data will be assessed and summarised within the Water Management Plan and the Biodiversity Management Plan as required.	<ul style="list-style-type: none"> Water Management Plan Annual reporting 	Operations	Draft EIS – Ch5 Environmental Risk Assessment p18
60.	Comprehensive laboratory assessment of groundwater will occur on a biannual basis at a select number of locations for the following parameters: <ul style="list-style-type: none"> Total acidity and alkalinity Major ions and nutrients (CaCO₃, CO₃, HCO₃, CaCO₃, Ca, Mg, K, Na, Cl, Cn, SO₄, No₃) Total and dissolved metals: Al, As, B, Ba, Cd, Co, Cu, Fe, Li, Pb, P, Mn, Hg, Mo, Ni, Rb, Se, Sr, Ag, U and Zn Hydrocarbon screening 	<ul style="list-style-type: none"> Monitoring results Annual reporting EMS/ Record keeping 	Construction/ Operations	Draft EIS – App N Environmental MP p56
61.	Monitoring of abstraction volumes for all production bores will be undertaken with continuous flow monitors. Data will be collated and summarised on a monthly basis.	<ul style="list-style-type: none"> Monthly report EMS/ Record keeping 	Construction/ Operations	Draft EIS – App N Environmental MP p56
62.	Further predictive modelling will occur to confirm the extent of groundwater drawdown.	<ul style="list-style-type: none"> Water Management Plan Modelling report EMS/ Record keeping 	Pre-production	APM Supplement – EIS Addendum Appendix 3
63.	A baseline assessment of potentially impacted stock bores will be conducted.	<ul style="list-style-type: none"> Results of assessment EMS/ Record keeping Water Management Plan 	Pre-production	Draft EIS – Ch5 Environmental Risk Assessment p17

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64.	Traditional owners will be consulted regarding potential impacts of groundwater drawdown on vegetation.	<ul style="list-style-type: none"> Indigenous Community Engagement Strategy Water Management Plan 	Pre-construction	APM Supplement – EIS Addendum Section 2.1.3
Insufficient Groundwater Volume to Supply Project Needs.				
65.	Additional drilling of bores to confirm aquifer properties across the proposed borefield.	<ul style="list-style-type: none"> Water Management Plan Borefield Management Plan 	Pre-production	Draft EIS – Ch5 Environmental Risk Assessment p17
66.	Model re-runs to confirm yield and drawdown extent.	<ul style="list-style-type: none"> Water Management Plan Borefield Management Plan EIS/ Record keeping 	Pre-production	Draft EIS – Ch5 Environmental Risk Assessment p17
67.	Treated water from the Sewage Treatment Plant will be used for landscaping.	<ul style="list-style-type: none"> Water monitoring Annual reporting Water Management Plan 	Construction / Operations	Draft EIS – Ch5 Environmental Risk Assessment p51
SURFACE WATER				
General				
68.	An updated Drainage, Erosion and Sediment Control Plan will be produced when detailed mine site layouts are completed and this will be reviewed and approved by a Certified Professional in erosion and sediment control.	<ul style="list-style-type: none"> Drainage, Erosion and Sediment Control Plan EMS/ Record keeping 	Pre-production	Draft EIS – Ch 2 Project Description p34; APM Supplement - EIS Addendum S. 4.3.6
69.				
70.	Erosion and sediment control measures will be installed prior to construction.	<ul style="list-style-type: none"> Drainage, Erosion and Sediment Control Plan Audits/ Inspections 	Construction	Draft EIS – Ch 5 Environmental Risk Assessment p 20; APM Supplement - EIS Addendum Biodiversity MP, Table 4-4 to 4-10
71.	Dust suppression within the mine site will be contained to the mine site by bunds/levees and sediment ponds. Deposited salts will only be mobilised as far as sediment ponds/sumps	<ul style="list-style-type: none"> Water Management Plan Air and Dust Management Plan Audits/ Inspections 	Construction/ Operation	APM Supplement - EIS Addendum, section 4.3.5
72.	Water carts will ensure directional sprays contain water within banded areas to ensure no overspray of saline water to adjacent areas.	<ul style="list-style-type: none"> Water Management Plan Air and Dust Management Plan Audits/ Inspections 		APM Supplement - EIS Addendum, section 4.3.5
73.	A baseline water quality survey will be undertaken of the Mud Hut Swamp (following rainfall).	<ul style="list-style-type: none"> Water Management Plan 	Pre-production	APM Supplement - EIS Addendum Section 4.3.6

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74.	Erosion and sediment control measures, including drains, will be inspected regularly, particularly following rainfall events, to ensure their ongoing functionality.	<ul style="list-style-type: none"> • Drainage, Erosion and Sediment Control Plan • Audits/ Inspections 	Construction	APM Supplement - EIS Addendum Biodiversity MP, Table 4-4 to 4-10
75.	Runoff from disturbed and rehabilitated areas will be diverted into sediment ponds and not discharged directly into the natural system.	<ul style="list-style-type: none"> • Drainage, Erosion and Sediment Control Plan • Audits/ Inspections 	LOM	Draft EIS - Ch5 Environmental Risk Assessment p30; Ch 7 Water Resources p27;
76.	Sedimentation ponds will be sized following detailed design of the Project, and will be designed in accordance with appropriate standards.	<ul style="list-style-type: none"> • Drainage, Erosion and Sediment Control Plan • Audits/ Inspections 		Supplement – Ch4 Responses to Submissions on the Draft EIS p25
77.	Water retention ponds will be sized to capture an ARI Wet Season rainfall appropriate to their hazard category plus an appropriate freeboard allowance for sedimentation.	<ul style="list-style-type: none"> • Audit • Water Management Plan • Monitoring 	Operations	Draft EIS – Ch 5 Environmental Risk Assessment p21
78.	Water around the mine site will be monitored and re-used where possible, including for processing.	<ul style="list-style-type: none"> • Water balance • Water Management Plan • EMS/ Record keeping 	Operations	Draft EIS – Ch 5 Environmental Risk Assessment p21
79.	Drains and bunding will be installed around the base of stockpiles as required to retain runoff from the stockpiles and to prevent inflow of external drainage. Drains will be designed to recognise 1 in 100-year flow events and to keep velocities within acceptable design criteria.	<ul style="list-style-type: none"> • Audits/ Inspections 	Construction	Draft EIS – Ch 5 Environmental Risk Assessment p22; Ch7 Water Resources p27
80.	Rip-rap protection will be used on earthwork embankments adjacent to drainage channels.	<ul style="list-style-type: none"> • Audits/ Inspections • Erosion and Sediment Control Plan • Water Management Plan 	Construction	Draft EIS – Ch 5 Environmental Risk Assessment p21
81.	Stockpiles will be located away from natural drainage lines.	<ul style="list-style-type: none"> • Audits/ Inspections • Drainage, Erosion and Sediment Control Plan 	Construction/ Operations	Draft EIS - Ch5 Environmental Risk Assessment p30
82.	Adequate bunds will be constructed around sources of potential contamination to contain contaminated water in the event of heavy rainfall.	<ul style="list-style-type: none"> • Audits/ Inspections • EMS/ Record keeping 	Operations	Draft EIS - Ch5 Environmental Risk Assessment p30;
83.	Prior to mining commencing, water and sediment samples will be collected to establish baseline conditions.	<ul style="list-style-type: none"> • Sampling results • Water Management Plan • Drainage, Erosion and Sediment Control Plan • EMS/ Record keeping 	Pre-production	Draft EIS - Ch7 Water resources p9; p29
Assessment of Surface Water Impacts				
84.	During flow events, where access is possible, sampling of surface water will be undertaken at the following locations:	<ul style="list-style-type: none"> • Monitoring results • Water Management Plan 	Construction / Operations	Draft EIS – App N Environmental MP p56

No.	COMMITMENT	PERFORMANCE INDICATOR	TIMEFRAME	LOCATION
	<ul style="list-style-type: none"> Murray Creek – upstream Murray Creek – downstream Bloodwood Creek Hanson River – Borefield Hanson River – Highway Hanson River – downstream 	<ul style="list-style-type: none"> EMS/ Record keeping Annual reporting 		
85.	<p>Sampling will be undertaken on a daily basis during flow events at Murray Creek locations, Blood wood creek and Hanson River locations for the following for field parameters:</p> <ul style="list-style-type: none"> Water level and photographic record of event Temperature, pH, oxidation-reduction potential (ORP), electrical conductivity (EC), total dissolved solids (TDS), dissolved oxygen (DO) and turbidity. 	<ul style="list-style-type: none"> Monitoring results Water Management Plan EMS/ Record keeping Annual reporting 	Construction / Operations	Draft EIS – App N Environmental MP p57
86.	<p>Laboratory assessment will be undertaken on at least one occasion during each flow event at all locations and include the following parameters:</p> <ul style="list-style-type: none"> Total Suspended Solids (TSS) Total hardness (hardness as CaCO₃) Total acidity and alkalinity Major ions and nutrients (CaCO₃, CO₃, HCO₃, CaCO₃, Ca, Mg, K, Na, Cl, CN, SO₄, NO₃) Total and dissolved (0.45µm field filtered) metals: Al, As, B, Ba, Cd, Co, Cu, Fe, Li, Pb, P, Mn, Hg, Mo, Ni, Rb, Se, Sr, Ag, U and Zn. 	<ul style="list-style-type: none"> Monitoring results Water Management Plan EMS/ Record keeping Annual reporting 	Construction/ Operations	Draft EIS – App N Environmental MP p57
87.	<p>Sediment sampling at the surface water monitoring locations will be undertaken following the end of the wet season (nominally March). Analysis will include the following:</p> <ul style="list-style-type: none"> Particle Size Distribution (sieve and hydrometer) Electrical Conductivity and pH Total Organic Carbon Major ions (CaCO₃, CO₃, HCO₃, CaCO₃, Ca, Mg, K, Na, Cl, Cn, SO₄, NO₃) Metals Al, As, B, Ba, Cd, Co, Cu, Fe, Li, Pb, P, Mn, Hg, Mo, Ni, Rb, Se, Sr, Ag, u and Zn 	<ul style="list-style-type: none"> Monitoring results Water Management Plan EMS/ Record keeping Annual reporting 	Construction/ Operations	Draft EIS – App N Environmental MP p57
88.	<p>Water from various streams of the water circuit will be tested including the following locations:</p> <ul style="list-style-type: none"> Raw Water Tank – weekly field water quality and levels Process Water Dam – weekly field water quality 	<ul style="list-style-type: none"> Monitoring results Water Management Plan EMS/ Record keeping 	Construction/ Operations	Draft EIS – App N Environmental MP p57

No.	COMMITMENT	PERFORMANCE INDICATOR	TIMEFRAME	LOCATION
	<ul style="list-style-type: none"> Water Treatment Plant – weekly field water quality and E. Coli on a monthly basis Rock Dump Drainage <p>Comprehensive laboratory assessment, including assessment of Drinking water requirements will also be undertaken from the above locations on a biannual basis.</p>	<ul style="list-style-type: none"> Annual reporting 		
89.	Two surface water monitoring stations are due to be installed during 4 th quarter 2017 – Hanson River downstream of the haul/access road crossing and Murray Creek downstream of the mine site. The remainder of the sites are to be established in the wet season prior to commencement of construction. Basic stream or pool level monitoring sites with stream gauge points are to be installed	<ul style="list-style-type: none"> Water Management Plan 	Pre-production	APM Supplement - EIS Addendum, section 4.3.3
90.	The Surface Water Monitoring Sites will be fitted with a with all-in-one style sensors (incorporating a battery, data logger and basic sensors), requiring routine manual data downloads during site service visits. Data will be manually collected on a minimum quarterly basis. Instruments can be quickly installed at each site and readily relocated between sites if required.	<ul style="list-style-type: none"> Water Management Plan 	Construction/ Operation	APM Supplement - EIS Addendum, section 4.3.3
91.	Sensors will undertake continuous logging of water level and temperature. Manual quarterly monitoring will take pH, electrical conductivity (EC) and total dissolved solids (TDS) readings, when water is available. Additionally, a water sampling regime including soluble metals, ions and nutrients will be sampled at least annually from each established surface water sampling location dependent on flows. Baseline data will be established and used for comparison with ANZECC/ARMCANZ 2000 Australian Water Quality Guidelines for Fresh and Marine Waters, Livestock Use.	<ul style="list-style-type: none"> Water Management Plan 	Construction/ Operation	APM Supplement - EIS Addendum, section 4.3.3
92.	There will be a sediment pond at the north end of the IWL to contain any sediment transported in surface water around the outside of the IWL bund or the pit bund/levee. This sediment pond will be designed to provide an appropriate residence time to enable a significant proportion of solids to fall out of suspension. Water will then be released and make its way toward the Murray Creek. A surface water monitoring site will be constructed downstream of the outfall to monitor flow, salinity, sediment and other selected analytes.	<ul style="list-style-type: none"> Water Management Plan Mine Management Plan 	Construction	APM Supplement - EIS Addendum, section 4.3.4.2

No.	COMMITMENT	PERFORMANCE INDICATOR	TIMEFRAME	LOCATION
93.	Summary reporting of water monitoring will be completed at the end of each month during operations. An annual report will be compiled including all water monitoring data for the program.	<ul style="list-style-type: none"> Monthly report Annual report Water Management Plan 	Operations	Draft EIS – App N Environmental MP p57
Pit Flooding				
94.	Further surface water modelling adjacent to the pit will be conducted.	<ul style="list-style-type: none"> Water Management Plan Reporting EMS/ Record keeping 	Construction	Draft EIS – Ch5 Environmental Risk Assessment p22
95.	Pit flood protection bund designed and constructed adjacent to the pit to prevent any ingress of surface water flows to the extent of a 1 in 100 year, 72 hour Average Return Interval rain event.	<ul style="list-style-type: none"> Mine Management Plan Audits/ Inspections Water Management Plan 	Construction	APM Supplement - Risk Assessment Table; Draft EIS – Ch5 Environmental Risk Assessment p22
96.	The pit flood protection bund will be constructed so it does not impact on the sacred site to the north-east of the pit.	<ul style="list-style-type: none"> Mine Management Plan Audits/ Inspections 	Construction	APM Supplement – EIS Addendum Section 7.2.1
97.	Conduct regular inspections of bunds and maintenance as necessary.	<ul style="list-style-type: none"> Inspection schedule EMS/ Record keeping 	Operations	Draft EIS – Ch 5 Environmental Risk Assessment p22
Impacts to Surface Water– Integrated Waste Landform				
98.	Monitoring will be undertaken in accordance with a Surface Water Monitoring Plan.	<ul style="list-style-type: none"> Water Management Plan 	Operations	Draft EIS – Ch5 Environmental Risk Assessment p21
99.	Any non-benign material that is excavated during the mining process will be placed towards the centre of the Integrated Waste Landform (IWL), away from IWL edges, to reduce potential for erosion of the outer batters of the final IWL landform.	<ul style="list-style-type: none"> Drainage, Erosion and Sediment Control Plan Mine Management Plan AMD Management Plan 	Operation	APM Supplement - EIS Addendum
100.	Tailings material will not be dumped near the edges of the final IWL to prevent erosion of the outer batters.	<ul style="list-style-type: none"> Mine Management Plan 	Operation	APM Supplement - EIS Addendum
101.	The top of the IWL will be shaped for water to drain inwards therefore preventing run-off during operation	<ul style="list-style-type: none"> Mine Management Plan 	Operation/ Closure	APM Supplement - EIS Addendum Section 3.2.2.1
102.	WRD Stormwater drainage, erosion and sediment controls will be designed and constructed to minimise erosion and channel scour.	<ul style="list-style-type: none"> Audits/ Inspections Erosion monitoring Water Management Plan 	Operations	Draft EIS – Ch7 Project Description p30

No.	COMMITMENT	PERFORMANCE INDICATOR	TIMEFRAME	LOCATION
103.	Stormwater collected on waste rock dump benches will be conveyed to a surface water collection and sedimentation basin on the toe of the WRD.	<ul style="list-style-type: none"> • Audits/ Inspections • Erosion monitoring • Water Management Plan 	Operations	Draft EIS – Ch7 Water Resources p27
104.	WRD height limited to 40 m	<ul style="list-style-type: none"> • Audits/ Inspections 	Operations	Draft EIS – Ch5 Environmental Assessment p52 Risk
105.	Ongoing stabilisation and rehabilitation of embankments will occur.	<ul style="list-style-type: none"> • Erosion monitoring • Audits/ Inspections • Mine Closure Plan 	Operations	Draft EIS – Ch 5 Environmental Risk Assessment p 21
106.	Regular inspections and maintenance will be undertaken.	<ul style="list-style-type: none"> • Inspection schedule • Water Management Plan 	Operations	Draft EIS – Ch5 Environmental Risk Assessment p 21
Impacts to Surface Water– Sewage Treatment Plant				
107.	Untreatable solids will be collected and disposed of offsite by a licensed waste transporter.	<ul style="list-style-type: none"> • Contractor agreement • EMS/ Record keeping 	Operations	Draft EIS – Ch2 Project Description p25
108.	Brine from the Waste Treatment Plant used in the process plant.	<ul style="list-style-type: none"> • Audits/ Inspections • Water Management Plan 	Operations	Draft EIS – Ch 5 Environmental Risk Assessment p19
Impacts to Surface Water– Roads				
109.	Appropriate drains will be constructed adjacent to the haul/ access road.	<ul style="list-style-type: none"> • Audits/ inspections 	Construction	Draft EIS – Ch 2 Project Description p10
110.	Design culverts to slow the flow of water through them.	<ul style="list-style-type: none"> • Water Management Plan • Audits/ Inspections 	Construction	APM Supplement - Biodiversity MP, Table 4-5
111.	At-grade floodways will be constructed across the Hanson River, Murray Creek and some minor watercourses that bisect the haul/ access road. The floodways will overtop during most flood events. Detailed design of the floodway and the approaches will be based on site specific geophysical assessments.	<ul style="list-style-type: none"> • Audits/ Inspections • Water Management Plan 	Construction	Draft EIS – Ch 2 Project Description p12
112.	Appropriate containment and treatments measures (such as sedimentation ponds and gross pollutant traps) will be incorporated into the designs of waterway crossings.	<ul style="list-style-type: none"> • Audits/ Inspections • Water Management Plan • 	Construction	Supplement – Ch4 Response to Submissions on the Draft EIS p24
113.	Wood Duck Creek – TNG intends to install regularly spaced culverts along this section of road.	<ul style="list-style-type: none"> • Audits/ Inspections • Monitoring 	Construction	Draft EIS – Ch 7 Water Resources p12

No.	COMMITMENT	PERFORMANCE INDICATOR	TIMEFRAME	LOCATION
		<ul style="list-style-type: none"> Water Management Plan Drainage, Erosion and Sediment Control Plan 		
114.	Mulga shrublands connected to the alluvial plains to the east of Stuart Highway – Regularly spaced culverts will be installed to prevent the creation of sheetflow shadow zones downgradient of the haul/ access road.	<ul style="list-style-type: none"> Audits/ Inspections Monitoring Water Management Plan Drainage, Erosion and Sediment Control Plan 	Construction	Draft EIS – Ch7 Water Resources p13
115.	Where there is the potential for the Project to release water to the environment (e.g. from high level overflow from sediment basins, water storage ponds and the TSF), TNG will apply for a Waste Discharge Licence from the NT EPA.	<ul style="list-style-type: none"> Waste Discharge Licence Audits/ Inspections Drainage, Erosion and Sediment Control Plan 	Operations	Draft EIS – CH7 Water Resources p30
BIODIVERSITY				
General				
116.	Site induction will include details on the biodiversity values at the Project including Threatened flora and fauna, and how basic practices associated with mining can impact biodiversity.	<ul style="list-style-type: none"> Training/ Inductions Biodiversity Management Plan 	Construction/ Operation	APM Supplement - EIS Addendum Biodiversity MP, Table 4-4 to 4-10
Clearing of Native Vegetation				
117.	Clearing of the IWL will be staged to allow for progressive (~5 year) stages of operation.	<ul style="list-style-type: none"> Mine Management Plan 	Operation	EIS Addendum, section 3.2.2.2
118.	Select an alignment that minimizes, where practicable, disturbance to vegetation and habitat, with particular consideration given to minimizing impacts to Threatened species habitat.	<ul style="list-style-type: none"> Biodiversity Management Plan Ground Disturbance Procedures Audits/ Inspections 	Pre-production	APM Supplement - EIS Addendum Biodiversity MP, Table 4-4 to 4-10
119.	Monitor habitat clearing to ensure compliance with areas marked for clearing and no intrusion outside the clearing zone.	<ul style="list-style-type: none"> Clearing procedures Audits/ Inspections Ground Disturbance Permit system 	Construction/ Operations	Draft EIS - Ch5 Environmental Risk Assessment p35
120.	Clear vegetation areas progressively and incrementally as needed, rather than large-scale clearing in advance.	<ul style="list-style-type: none"> Biodiversity Management Plan Ground Disturbance Procedures 	Construction/ Operation	APM Supplement - EIS Addendum Biodiversity MP, Table 4-4 to 4-10
121.	A pre-clearance survey for Greater Bilby, Great Desert Skink and Brush-tailed Mulgara will be undertaken by a qualified ecologist in areas of optimal habitat no longer than one month prior to forecast clearing. Individuals located will be trapped and relocated.	<ul style="list-style-type: none"> Biodiversity Management Plan Ground Disturbance Procedures Greater Bilby Monitoring Program Brush-tailed Mulgara Monitoring Program 	Construction/ Operation	APM Supplement - EIS Addendum Biodiversity MP, Table 4-6, 4-8 and 4-9

No.	COMMITMENT	PERFORMANCE INDICATOR	TIMEFRAME	LOCATION
	Where individuals remain un-trapped in burrows clearing reduced to one traxcavator clearing progressively at night (no clearing during the day) in a buffer area of 250 m around the active burrow.	<ul style="list-style-type: none"> Great Desert Skink Monitoring Program 		
122.	Where clearing must occur for laydown, construction, logistics or accommodation, vegetation to be cleared should be selected from areas that are low lying with heavy clay soils.	<ul style="list-style-type: none"> Biodiversity Management Plan Ground Disturbance Procedures Greater Bilby Monitoring Program Brush-tailed Mulgara Monitoring Program Great Desert Skink Monitoring Program 	Construction/ Operation	APM Supplement - EIS Addendum Biodiversity MP, Table 4-6, 4-8 and 4-9
123.	Limit clearing to that which is absolutely necessary in areas that are within 500m straight line distance from rocky breakaways.	<ul style="list-style-type: none"> Biodiversity Management Plan Ground Disturbance Procedures Black-footed Rock Wallaby Monitoring Program 	Construction/ Operation	APM Supplement - EIS Addendum Biodiversity MP, Table 4-7
124.	Employ best management practices to maintain the quality of fragmented habitat and reduce edge effects	<ul style="list-style-type: none"> Biodiversity Management Plan Ground Disturbance Procedures 	Construction/ Operation	APM Supplement - EIS Addendum Biodiversity MP, Table 4-4 to 4-10
Threatened Fauna				
125.	Reduce attractiveness (to wildlife) of contaminated Water Ponds through the implementation of Best Practice Guidelines for Reducing Impacts of Tailings Storage Facilities on Avian Wildlife (DME 1998).	<ul style="list-style-type: none"> Audits/ Inspections 	Construction/ Operation	APM Supplement - EIS Addendum Biodiversity MP, Table 4-4 to 4-10
126.	If Greater Bilby, Great Desert Skink, Brush-tailed Mulgara burrows are located, they should be saturation trapped to capture individuals that can then be released adjacent but along a length of the construction corridor that has already been cleared. If active Great Desert Skink burrows are located	<ul style="list-style-type: none"> Biodiversity Management Plan Bilby Monitoring Program Mulgara Monitoring Program 	Construction/ Operation	APM Supplement - EIS Addendum Biodiversity MP, Table 4-6, 4-8 and 4-9
127.	If trapping of Bilby/Mulgara is unsuccessful, the rate of clearing should be reduced to one active traxcavator/dozer with clearing commencing after dark over the area where the burrows were located and within a radius of 250 m either side along the corridor. If active Great Desert Skink burrows are located and an individual is proven to be in residence the burrow must be excavated by a qualified ecologist.	<ul style="list-style-type: none"> Biodiversity Management Plan Bilby Monitoring Program Mulgara Monitoring Program 	Construction/ Operation	APM Supplement - EIS Addendum Biodiversity MP, Table 4-6, 4-8 and 4-9

No.	COMMITMENT	PERFORMANCE INDICATOR	TIMEFRAME	LOCATION
128.	TNG will commence occupancy modelling studies as detailed in the TNG Mount Peake Project Threatened Species Monitoring Programs with the Greater Bilby and Great Sweet Potato Monitoring Program to commence immediately (2018) and monitoring of Brush-tailed Mulgara, Black-footed Rock-wallaby and Great Desert Skink monitoring programs to commence upon record of direct evidence of occurrence of these taxa (i.e. sighting of an individual or road kill).	<ul style="list-style-type: none"> • Biodiversity Management Plan • Greater Bilby Monitoring Program • Great Desert Skink Monitoring Program • Black-footed Rock Wallaby Monitoring Program • Brush-tailed Mulgara Monitoring Program • Great Sweet Potato Monitoring Program 	Construction/ Operation	APM Supplement - EIS Addendum Biodiversity MP, Appendix B - F
129.	The establishment of additional monitoring transects to be incorporated into the monitoring programs wherever, along the haul road, the route has bisected significant tracts of optimal Greater Bilby or Brush-tailed Mulgara habitat. Where individuals are found to have recruited adjacent to construction, place warning signs to alert vehicles.	<ul style="list-style-type: none"> • Biodiversity Management Plan • Greater Bilby Monitoring Program • Brush-tailed Mulgara Monitoring Program • Great Desert Skink Monitoring Program 	Construction/ Operation	APM Supplement - EIS Addendum Biodiversity MP, Table 4-6, 4-8 and 4-9
130.	Implement the Threatened Species Monitoring Programs and commence the collection of data immediately, where appropriate, to enable the modelling of populations in the Project area, and to determine if, and to what extent, mine activities are influencing the local distributions of Threatened Species.	<ul style="list-style-type: none"> • Biodiversity Management Plan • Greater Bilby Monitoring Program • Great Desert Skink Monitoring Program • Black-footed Rock Wallaby Monitoring Program • Brush-tailed Mulgara Monitoring Program • Great Sweet Potato Monitoring Program 	Construction/ Operation	APM Supplement - EIS Addendum Biodiversity MP, Table 4-4 to 4-10
131.	Positioning the access alignment as close to the centre of the two ranges associated with Djilbari hills as possible to maximise the distance of the alignment from both elevated breakaways most likely to be occupied by Black-footed Rock-wallaby.	<ul style="list-style-type: none"> • Biodiversity Management Plan • Black-footed Rock Wallaby Monitoring Program 	Construction/ Operation	APM Supplement - EIS Addendum Biodiversity MP, Table 4-7
132.	Take borrow material from as far down foothills as is possible within the constraints of cost and engineering.	<ul style="list-style-type: none"> • Biodiversity Management Plan • Black-footed Rock Wallaby Monitoring Program • 	Construction/ Operation	APM Supplement - EIS Addendum Biodiversity MP, Table 4-7
133.	Motion-sensing camera surveys within habitats likely to be utilised by Black-footed Rock-wallaby. Focal areas would be along the base of the Djilbari Range and the range to the north-east of Djilbari Range and east of the Project area. Monitoring along the access road in the valley between the two ranges.	<ul style="list-style-type: none"> • Biodiversity Management Plan • Black-footed Rock Wallaby Monitoring Program 	Construction/ Operation	APM Supplement - EIS Addendum Biodiversity MP, Table 4-4 to 4-10

No.	COMMITMENT	PERFORMANCE INDICATOR	TIMEFRAME	LOCATION
Fauna Strikes Due to Vehicle Movement				
134.	Keep the proposed road network to a minimum and upgrade and utilise existing vehicle tracks. Ensure that all vehicles travel on these designated roads, and not on secondary or short-cut roads/tracks.	<ul style="list-style-type: none"> Traffic Management Plan 	Construction/ Operation	APM Supplement - EIS Addendum Biodiversity MP, Table 4-4 to 4-10
135.	Reduce speed limits along sections of road that pass through or near Threatened Species habitat, including foraging habitat.	<ul style="list-style-type: none"> Traffic Management Plan Biodiversity Management Plan 	Construction/ Operation	APM Supplement - EIS Addendum Biodiversity MP, Table 4-4 to 4-10
136.	Fit all haulage and light vehicles with noise emitting animal deterrents if devices are available that have been proven successful. Otherwise implement the trial of such devices.	<ul style="list-style-type: none"> Traffic Management Plan Biodiversity Management Plan 	Construction/ Operation	APM Supplement - EIS Addendum Biodiversity MP, Table 4-4 to 4-10
137.	Reduce vehicle speeds in areas determined to be optimal Greater Bilby foraging habitat as determined when the final alignment is defined.	<ul style="list-style-type: none"> Traffic Management Plan Greater Bilby Monitoring Program Biodiversity Management Plan 	Construction/ Operation	APM Supplement - EIS Addendum Biodiversity MP, Table 4-6
138.	Reduce vehicle speeds between sunset and sunrise, in areas of the access road that bisect the valley between the ranges.	<ul style="list-style-type: none"> Traffic Management Plan Black-footed Rock Wallaby Monitoring Program Biodiversity Management Plan 	Construction/ Operation	APM Supplement - EIS Addendum Biodiversity MP, Table 4-7
139.	Where individuals (Black-footed Rock-wallaby, Greater Bilby) are found to occupy refuge habitats adjacent the access road signs ("Black-footed Rock-wallaby Crossing" or "Greater Bilby Crossing") should be placed to slow traffic. The site Environmental Officer should place signs and then remove them after four nights without observation of individuals.	<ul style="list-style-type: none"> Traffic Management Plan Black-footed Rock Wallaby Monitoring Program Greater Bilby Monitoring Program Biodiversity Management Plan 	Construction/ Operation	APM Supplement - EIS Addendum Biodiversity MP, Table 4-6 and 4-7
140.	Minimise night-time traffic movement where practicable.	<ul style="list-style-type: none"> Traffic Management Plan Biodiversity Management Plan 	Construction/ Operation	APM Supplement - EIS Addendum Biodiversity MP, Table 4-4 to 4-10
Giant Sweet Potato				
141.	Monitoring the Giant Sweet Potato (GSP) population at reference points identified in the Biodiversity MP.	<ul style="list-style-type: none"> Biodiversity Management Plan Giant Sweet Potato report 	Construction/ Operation	APM Supplement - EIS Addendum Biodiversity MP, Table 4-10
142.	Commence monitoring as detailed in the TNG Mount Peake Project GSP Monitoring Program to monitor the impact of construction on the GSP.	<ul style="list-style-type: none"> Biodiversity Management Plan Giant Sweet Potato report 	Construction/ Operation	APM Supplement - EIS Addendum Biodiversity MP, Table 4-10

No.	COMMITMENT	PERFORMANCE INDICATOR	TIMEFRAME	LOCATION
143.	The establishment of additional monitoring transects wherever, along the haul road, the route has bisected significant tracts of optimal GSP habitat.	<ul style="list-style-type: none"> • Biodiversity Management Plan • Giant Sweet Potato report 	Construction/ Operation	APM Supplement - EIS Addendum Biodiversity MP, Table 4-10
144.	Floodways will be constructed at the lowest point across the area of occupancy of GSP to mitigate the impact of drainage shadow that could be caused by the use of drainage culverts.	<ul style="list-style-type: none"> • Biodiversity Management Plan • Giant Sweet Potato report 	Construction/ Operation	APM Supplement - EIS Addendum Biodiversity MP, Table 4-10
145.	The commencement of monitoring as detailed in the TNG Mount Peake Project GSP Monitoring Program to monitor the impact of construction on the GSP.	<ul style="list-style-type: none"> • Biodiversity Management Plan • Giant Sweet Potato report 	Construction/ Operation	APM Supplement - EIS Addendum Biodiversity MP, Table 4-10
146.	Increase frequency of dust suppression in the area where GSP are known to occur.	<ul style="list-style-type: none"> • Biodiversity Management Plan • Giant Sweet Potato report • Air and Dust Management Plan 	Construction/ Operation	APM Supplement - EIS Addendum Biodiversity MP, Table 4-10
147.	Investigate the use of soil binding material along the 16 km of habitat within which the GSP is known to occur	<ul style="list-style-type: none"> • Biodiversity Management Plan • Giant Sweet Potato report • Air and Dust Management Plan 	Construction/ Operation	APM Supplement - EIS Addendum Biodiversity MP, Table 4-10
148.	Creation of a number of small fire breaks through areas where the GSP population is known to occur to reduce the potential for a fire to impact the entire population.	<ul style="list-style-type: none"> • Biodiversity Management Plan • Giant Sweet Potato report • Fire Management Plan 	Construction/ Operation	APM Supplement - EIS Addendum Biodiversity MP, Table 4-10
149.	Monitor the response of GSP to small localized fires within the boundaries of the GSP, should these fires occur over the life of the project.	<ul style="list-style-type: none"> • Biodiversity Management Plan • Giant Sweet Potato report • Fire Management Plan 	Construction/ Operation	APM Supplement - EIS Addendum Biodiversity MP, Table 4-10
150.	Determine whether more GSP plants occur just outside the study area.	<ul style="list-style-type: none"> • Biodiversity Management Plan • Giant Sweet Potato report • 	Construction/ Operation	APM Supplement - EIS Addendum Biodiversity MP, Table 4-10
151.	Conduct more on-ground surveying and use Wilson et al (1990) vegetation mapping to further refine the potential habitat area and estimated population size of GSP.	<ul style="list-style-type: none"> • Biodiversity Management Plan • Giant Sweet Potato report • 	Construction/ Operation	APM Supplement - EIS Addendum Biodiversity MP, Table 4-10
152.	Map and determine the percentage of the local GSP plant population that are most likely to be lost from direct and indirect impacts of the proposed road construction once the final alignment is known. Presently only estimates of direct impact have been calculated.	<ul style="list-style-type: none"> • Biodiversity Management Plan • Giant Sweet Potato report • 	Construction/ Operation	APM Supplement - EIS Addendum Biodiversity MP, Table 4-10
153.	Model and map expected changes in surface water flow from the proposed road and how they may change the distribution of potential habitat.	<ul style="list-style-type: none"> • Biodiversity Management Plan • Giant Sweet Potato report • 	Construction/ Operation	APM Supplement - EIS Addendum Biodiversity MP, Table 4-10
154.	Determine whether cattle are grazing on the plants and if so, whether they are significantly impacting on plant reproduction.	<ul style="list-style-type: none"> • Biodiversity Management Plan • Giant Sweet Potato report • 	Construction/ Operation	APM Supplement - EIS Addendum Biodiversity MP, Table 4-10

No.	COMMITMENT	PERFORMANCE INDICATOR	TIMEFRAME	LOCATION
155.	Collect GPS seeds, particularly from plants likely to be impacted from the road construction, and conduct revegetation trials to offset loss of plants.	<ul style="list-style-type: none"> Biodiversity Management Plan Giant Sweet Potato report 	Pre-production	APM Supplement - EIS Addendum Biodiversity MP, Table 4-10
Increase in Feral Fauna Species				
156.	TNG will maintain a Fauna Sighting and Fatality register.	<ul style="list-style-type: none"> Fauna Sighting and Fatality register EMS/ Record keeping 	Construction/ Operations	APM Supplement - EIS Addendum Table 5.2 and 5.3
157.	Onsite garbage/waste held in a securely fenced compound (i.e. the fence will need to prevent the entry of cats, foxes and dingoes).	<ul style="list-style-type: none"> Audits/ Inspections 	Construction	APM Supplement - EIS Addendum Biodiversity MP, Table 4-4 to 4-10
158.	Restrict colonisation or access to putrescible waste by introduced vermin (<i>Rattus rattus</i> , <i>Mus musculus</i>), introduced predators (fox, cat) and native predators such as the dingo.	<ul style="list-style-type: none"> Biodiversity Management Plan Domestic and Industrial Waste Management Plan 	Construction/ Operation	APM Supplement - EIS Addendum Table 5.2
159.	Putrescible waste will be covered daily.	<ul style="list-style-type: none"> Non-mineralised Waste Management Plan Audits/ Inspections 	Construction/ Operations	Draft EIS - Ch5 Environmental Risk Assessment p36
160.	Establish baseline and subsequent comparative data on local population sizes of feral predators (cat, fox) and dingoes to inform control program. Undertake a motion sending camera survey prior to construction, using site occupancy as the measure of predator population size and extent.	<ul style="list-style-type: none"> Biodiversity Management Plan Survey report EMS/ Record keeping 	Pre-production	APM Supplement - EIS Addendum Table 5.2 and 5.3
161.	<p>Establish 30 baited camera stations that can be repeatedly used including:</p> <ul style="list-style-type: none"> 10 sites within 100m of proposed min activities (particularly around the landfill); 10 sites approximately 1 km from mine activities; and 10 sites more than 5 km from mine activities. <p>Cameras to be deployed for a minimum of 28 nights.</p>	<ul style="list-style-type: none"> EMS/ Record keeping Annual reporting Biodiversity Management Plan 	Operations - Annually	APM Supplement - EIS Addendum Table 5.2 and 5.3
162.	<p>If feral populations are seen to increase, baiting/ control will be undertaken.</p> <p>Cats/ foxes – action required if >10% increase in numbers of individuals detected across two surveys.</p> <p>Dingoes – action required if >50% increase in abundance across two surveys.</p>	<ul style="list-style-type: none"> Opportunistic monitoring EMS/ Record keeping Training/Inductions Biodiversity Management Plan Fauna Sighting and Fatality Register 	Operations	APM Supplement - EIS Addendum Table 5.2 and 5.3
163.	A range of cats/ foxes control methods will be trialled upon the outset of the Project to determine the most effective and efficient method. Possible methods include:	<ul style="list-style-type: none"> Biodiversity Management Plan EMS/ Record keeping 	Construction/ Operations	APM Supplement - EIS Addendum Table 5.2 and 5.3

No.	COMMITMENT	PERFORMANCE INDICATOR	TIMEFRAME	LOCATION
	<ul style="list-style-type: none"> Poisoned baiting; Trapping (e.g. cage trapping); Shooting; and Grooming traps 			
164.	Prior to control measures being used on a suspected rabbit warren, motion sensing cameras will be deployed at warren entrances for at least 30 days during the warmer months (October to March) to make certain that the burrows aren't used by any threatened fauna species. If any burrow is found to support a native threatened species then fumigation and warren ripping are not suitable. Other rabbit-control methods are to be established (e.g. trapping, shooting)	<ul style="list-style-type: none"> Biodiversity Management Plan Fauna Sighting and Fatality Register 	Construction/ Operations	APM Supplement - EIS Addendum Table 5.2 and 5.3
Increase in Weed Species or Weed Infestation				
165.	Management of weeds in the Project area in accordance with industry accepted weed control measures (presented in a Weed Management Plan).	<ul style="list-style-type: none"> Weed Management Plan 	LOM	APM Supplement - EIS Addendum Biodiversity MP, Table 4-4 to 4-10
166.	Environmental inductions for workforce all staff and contractor - includes weed hygiene measures and weed reporting requirements	<ul style="list-style-type: none"> Training/ Inductions 	Construction/ Operations	Draft EIS - Ch5 Environmental Risk Assessment p25
167.	Develop vehicle and equipment wash down procedures.	<ul style="list-style-type: none"> Weed Management Plan Training/ Inductions 	Construction/ Operations	Draft EIS - Ch5 Environmental Risk Assessment p25
168.	Implement strict vehicle hygiene protocols to prevent new weed incursion and spread, including a vehicle wash down facility onsite.	<ul style="list-style-type: none"> Weed Management Plan Training/ Inductions 	LOM	Draft EIS - Ch5 Environmental Risk Assessment p25; Supplement - Targeted Threatened Species Survey
169.	If works are being undertaken in an area known to contain classified weeds, plant/equipment and vehicles are to be washed prior to vacating the areas.	<ul style="list-style-type: none"> Weed Management Plan Weed mapping Log book 	Construction/ Operations	Draft EIS - App N Environmental MP p58
170.	Keep vehicles to established tracks and roads, and limit use off road.	<ul style="list-style-type: none"> Training/ Inductions Traffic Management Plan 	LOM	APM Supplement - EIS Addendum Biodiversity MP, Table 4-4 to 4-10
171.	Annual weed monitoring and mapping will be undertaken, particularly along transport routes.	<ul style="list-style-type: none"> Weed Management Plan Weed monitoring EMS/ Record keeping 	Construction/ Operations	Draft EIS - Ch5 Environmental Risk Assessment p43

No.	COMMITMENT	PERFORMANCE INDICATOR	TIMEFRAME	LOCATION
172.	Regular monitoring of the Project Area (including rehabilitated areas) and surrounding vegetation to identify new weed populations and monitor the effectiveness of weed control measures.	<ul style="list-style-type: none"> • Weed Management Plan • Weed monitoring • EMS/ Record keeping 	Construction/ Operations	Draft EIS – Ch5 Environmental Risk Assessment p43
173.	Weed control activities as required and in consultation/ partnership with local landowners as necessary.	<ul style="list-style-type: none"> • Weed Management Plan • Stakeholder Consultation Register • EMS/ Record keeping 	LOM	Draft EIS – Ch5 Environmental Risk Assessment p43
174.	Areas supporting existing weed infestations or vulnerable to weed infestation will be avoided where possible.	<ul style="list-style-type: none"> • Weed Management Plan • Weed mapping • EMS/ Record keeping 	Construction/ Operations	Draft EIS – Ch5 Environmental Risk Assessment p43
175.	Topsoil from weed affected areas stockpiled in a designated area with appropriate signage and bunded. Weed infested topsoil will be treated as required to eradicate weeds prior to re-spreading in rehabilitation areas.	<ul style="list-style-type: none"> • Weed Management Plan • Environmental Management Plan • Topsoil mapping • EMS/ Record keeping • Audits/ Inspections 	Construction/ Operations	Draft EIS – Ch5 Environmental Risk Assessment p43p17
176.	Imported fill will be certified weed free prior to being utilised at the Project.	<ul style="list-style-type: none"> • Environmental Management Plan • EMS/ Record keeping 	LOM	Draft EIS – App N Environmental MP p57
177.	Annual weed survey and control by an appropriately experienced and qualified botanist. This will include the Mine Site, Haul Road, Adnera Loadout Facility and exploration areas.	<ul style="list-style-type: none"> • Weed Management Plan • EMS/ Record keeping 	LOM	Draft EIS – App N Environmental MP p58
Impacts to Native Vegetation and Topsoil				
178.	Develop and implement Ground Disturbance Procedures which include areas not to be cleared (no-go areas)	<ul style="list-style-type: none"> • Ground Disturbance Procedures • Clearing Procedures 	Construction/ Operations	Draft EIS – Ch5 Environmental Risk Assessment p24 APM Supplement - EIS Addendum Biodiversity MP, Table 4-4 to 4-10
179.	Prior to clearing a Ground Disturbance Permit is required to be issued by the Environmental Manager.	<ul style="list-style-type: none"> • Ground Disturbance Procedures 	Pre-production	Draft EIS - App N Environmental MP p43 APM Supplement - EIS Addendum Biodiversity MP, Table 4-4 to 4-10
180.	Vegetation clearing will be minimised wherever practicable, including using areas which have been previously disturbed before areas that require native vegetation clearing where possible.	<ul style="list-style-type: none"> • Ground Disturbance Procedures 	Construction/ Operations	APM Supplement - EIS Addendum Biodiversity MP, Table 4-4 to 4-10
181.	Clearing of the IWL will be staged to allow for progressive (~5 year) stages of operation.	<ul style="list-style-type: none"> • Mine Management Plan 	Construction/ Operation	EIS Addendum, section 3.2.2.2

No.	COMMITMENT	PERFORMANCE INDICATOR	TIMEFRAME	LOCATION
182.	Select an alignment that minimizes, where practicable, disturbance to vegetation and habitat, with particular consideration given to minimizing impacts to threatened species habitat.	<ul style="list-style-type: none"> Biodiversity Management Plan Ground Disturbance Procedures Audits/ Inspections 	Construction/ Operation	APM Supplement - EIS Addendum Biodiversity MP, Table 4-4 to 4-10
183.	Avoid land clearing for construction during the Wet Season.	<ul style="list-style-type: none"> Ground Disturbance Procedures 	Construction/ Operations	Draft EIS – Ch5 Environmental Risk Assessment p24
184.	TNG will adhere to buffer widths recommended by the Northern Territory Land Clearing Guidelines where possible, with regard to riparian vegetation in drainage lines.	<ul style="list-style-type: none"> Ground Disturbance Procedures Training/ Inductions Audits/ Inspections 	Construction/ Operations	Draft EIS – Ch5 Environmental Risk Assessment p25
185.	Regular assessments of compliance against Ground Disturbance Permits will be undertaken.	<ul style="list-style-type: none"> Audits/ Inspections Ground Disturbance Procedures 	Construction/ Operations	Draft EIS - App N Environmental MP p44
186.	Reconciliation of topsoil stockpile quantity will occur.	<ul style="list-style-type: none"> Audits/ Inspections EMS/ Record keeping 	Operations/ Closure	Draft EIS – Ch5 Environmental Risk Assessment p53
187.	Conduct targeted threatened species searches in suitable habitat for Dwarf Desert Spike Rush (<i>Eleocharis papillosa</i>).	<ul style="list-style-type: none"> Survey results Biodiversity Management Plan 	Pre-production	Draft EIS – Ch 5 Environmental Risk Assessment p27
Groundwater Dependent Ecosystem Monitoring				
188.	Monitoring sites at varying distances from the centre of groundwater drawdown zone, as well as upstream and downstream of the zone. Monitor Leaf Water Potential, vegetation quadrats and multispectral analysis as per the BMP.	<ul style="list-style-type: none"> Monitoring results Biodiversity Management Plan 	Construction/ Operations	APM Supplement Biodiversity MP
189.	Establish a minimum of three monitoring sites at Mud Hut Swamp Monitor Leaf Water Potential, vegetation quadrats and multispectral analysis as per the BMP.	<ul style="list-style-type: none"> Monitoring results Biodiversity Management Plan 	Construction/ Operations	APM Supplement Biodiversity MP
AIR POLLUTION				
Dust				
190.	Moisture levels in concentrate and bulk loose construction materials will be maintained.	<ul style="list-style-type: none"> Air and Dust Management Plan Audits/ Inspections 	Operations	Draft EIS – App N Environmental MP p41; p43; p11; p20; App H p1; APM Supplement - EIS Addendum Biodiversity MP
191.	Chemicals are not proposed to be used for dust suppression.	<ul style="list-style-type: none"> Air and Dust Management Plan 	Construction/ Operation	APM Supplement - Risk Assessment Table

No.	COMMITMENT	PERFORMANCE INDICATOR	TIMEFRAME	LOCATION
192.	Investigate the use of soil binding material in areas of heavy traffic. It is possible to consider sealing roads in areas such as the workshop.	<ul style="list-style-type: none"> Air and Dust Management Plan 	Construction/ Operation	APM Supplement - EIS Addendum Biodiversity MP, Table 4-4 to 4-10
193.	Where necessary, stockpiles will be protected with erosion and sediment control structures and stabilised to prevent excessive wind erosion.	<ul style="list-style-type: none"> Audits/ Inspections Drainage, Erosion and Sediment Control Plan 	Operations	Draft EIS – Ch2 Project Description p9
194.	Vegetation and topsoil removal will be carried out shortly before the area is required for construction.	<ul style="list-style-type: none"> Clearing procedures Ground Disturbance Permit System Vegetation Clearing sub-plans Air and Dust Management Plan 	Construction/ Operations	Draft EIS – Ch2 Project Description p9
195.	Use water carts on roads, wet ore before crushing, use hooded crushers and enclosed HPGRs	<ul style="list-style-type: none"> Air and Dust Management Plan Audits/ Inspections 	Construction/ Operations	Draft EIS – Ch 5 Environmental Risk Assessment p26
196.	Vehicle speed limits will be applied to mine site roads.	<ul style="list-style-type: none"> Training/ Inductions Signage 	Operations	Draft EIS - Ch5 Environmental Risk Assessment p38
197.	Minimise hauling and vehicle travel in conditions when wind strength results in spatially extensive and heavy dust deposition in surrounding habitats.	<ul style="list-style-type: none"> Audits/ Inspections Training/ Inductions Air and Dust Management Plan 	LOM	APM Supplement - EIS Addendum Biodiversity MP
198.	Cover concentrate loads to prevent dust generation and product loss.	<ul style="list-style-type: none"> Contractor agreements Training/ Inductions Air and Dust Management Plan 	Operations	Draft EIS - Ch5 Environmental Risk Assessment p38
199.	Stabilisation of surface silt content through application of localised water sprays, or the use of appropriate chemical dust suppressants (suitable for roads which are traversed less frequently).	<ul style="list-style-type: none"> Air and Dust Management Plan 	Operations	Draft EIS – Ch9 Air and Greenhouse Gas Emissions p14
200.	Control of mechanically induced dust emissions (from clearing, excavation. Loading, dumping, filling and levelling activities) by application of water sprays.	<ul style="list-style-type: none"> Air and Dust Management Plan 	Operations	Draft EIS – Ch9 Air and Greenhouse Gas Emissions p14
201.	Awareness of operational areas more frequently exposed to higher winds and the predominant wind directions in these areas at various times of the year. Temporary wind barriers may be employed where necessary.	<ul style="list-style-type: none"> Air and Dust Management Plan Monitoring 	Operations	Draft EIS – Ch9 Air and Greenhouse Gas Emissions p14
202.	Review of daily weather updates from BoM or a private meteorology service provided to give warning of likely strong winds to assist with daily management of wind-blown dust from unconsolidated soil surfaces and material stockpiles.	<ul style="list-style-type: none"> Air and Dust Management Plan 	Operations	Draft EIS – Ch9 Air and Greenhouse Gas Emissions p14

No.	COMMITMENT	PERFORMANCE INDICATOR	TIMEFRAME	LOCATION
203.	All haulage vehicles are to have their loads covered while transporting material to or from the work area through off-site routes that may have sensitive receptors.	<ul style="list-style-type: none"> Contractor agreements Dust Management Plan 	Operations	Draft EIS – Ch9 Air and Greenhouse Gas Emissions p14
204.	Exposed stockpiles will either be covered and/or routinely sprayed with water.	<ul style="list-style-type: none"> Air and Dust Management Plan 	Construction/ Operations	Draft EIS - App N Environmental MP p41
205.	Product being removed from the Mine Site and placed at the Adnera Loadout Facility will be sprayed prior/during loading/unloading.	<ul style="list-style-type: none"> Air and Dust Management Plan 	Operations	Draft EIS - App N Environmental MP p41
206.	Offloading of waste and ore will be undertaken from minimum heights with water sprays utilised at high frequency dump locations (i.e. crushing screens).	<ul style="list-style-type: none"> Dust Management Plan 	Operations	Draft EIS - App N Environmental MP p41
Energy and Emissions				
207.	Operation and maintenance of power station in accordance with the design and emission criteria.	<ul style="list-style-type: none"> Audits/ Inspections 	Construction/ Operations	Draft EIS - Ch5 Environmental Risk Assessment p47
208.	The potential use of biodiesel blends will be considered.	<ul style="list-style-type: none"> Environmental Management Plan 	Pre-production	Draft EIS - Ch5 Environmental Risk Assessment p48
209.	The potential use of solar power and storage battery systems will be considered.	<ul style="list-style-type: none"> Environmental Management Plan 	Pre-production	Draft EIS - Ch5 Environmental Risk Assessment p48
210.	Energy auditing and reviews will be conducted.	<ul style="list-style-type: none"> Audits/ Inspections EMS/ Record keeping 	Construction/ Operations	Draft EIS - Ch5 Environmental Risk Assessment p48
211.	Emissions reporting will occur.	<ul style="list-style-type: none"> Annual reporting Environmental Management Plan 	Construction/ Operations	Draft EIS - Ch5 Environmental Risk Assessment p48
212.	Investigation during detailed project design and planning stage of the achievability of a reduction in the quantity of fuel consumed through the optimisation of operational activities and logistics and the use of more efficient plant and vehicles e.g. biodiesel blends.	<ul style="list-style-type: none"> Environmental Management Plan EMS/ Record keeping 	Pre-production	Draft EIS – Ch9 Air and Greenhouse Gas Emissions p14
213.	Greenhouse gas emissions will be monitored.	<ul style="list-style-type: none"> Monitoring EMS/ Record keeping 	Construction/ Operation	Draft EIS – Ch9 Air and Greenhouse Gas Emissions p15
214.	Undertake regular energy audits and reviews to identify energy efficiency improvement opportunities which may be implemented to progressively improve operations and subsequent energy efficiency.	<ul style="list-style-type: none"> Audits/ Inspections Mine Management Plan EMS/ Record keeping 	Construction/ Operations	Draft EIS – Ch9 Air and Greenhouse Gas Emissions p15
215.	Scope 1 and 2 emissions will be measured or estimated as part of the National Greenhouse and Energy Reporting Scheme, in line with the technical guidelines for measuring and reporting these emissions.	<ul style="list-style-type: none"> Monitoring EMS/ Record keeping Reporting Mine Management Plan 	Construction/ Operations	Draft EIS – Ch9 Air and Greenhouse Gas Emissions p15

No.	COMMITMENT	PERFORMANCE INDICATOR	TIMEFRAME	LOCATION
216.	Legislative measuring and reporting requirements will be used to assist in the identification of greenhouse gas reduction opportunities and track performance throughout the Project life.	<ul style="list-style-type: none"> • Mine Management Plan • Monitoring • EMS/ Record keeping 	LOM	Draft EIS – Ch9 Air and Greenhouse Gas Emissions p15
217.	Schedule and manage subcontractor to undertake annual testing of the power station stacks. Stack sampling is to comply with the Victorian EPA 'A Guide to the Sampling and Analysis of Air Emissions and Air Quality'.	<ul style="list-style-type: none"> • Contractor agreements • Environmental Management Plan • Annual reports 	Construction/ Operations	Draft EIS – App N Environmental MP p42
218.	Power station stack height to be a minimum of 9.37 m and have a radius of 0.229 m.	<ul style="list-style-type: none"> • Audits/ Inspections 	Construction	Draft EIS – App N Environmental MP (App B: Air and Dust MP p11)
Noise Pollution				
219.	Standard noise minimisation measures will be implemented.	<ul style="list-style-type: none"> • Air and Dust Management Plan 	Construction/ Operations	Draft EIS - Ch5 Environmental Risk Assessment p37
220.	Schedule all non-essential movement along the haul/ access road to take place during the day.	<ul style="list-style-type: none"> • Air and Dust Management Plan 	Construction/ Operation	APM Supplement - Biodiversity MP, Table 4-5, p33
221.	High impact noises will be limited to daylight hours only and avoided or minimised where possible.	<ul style="list-style-type: none"> • Air and Dust Management Plan • Blasting schedule 	Construction/ Operations	Draft EIS - Ch5 Environmental Risk Assessment p37; p49; Ch10 Noise and Vibration p13
222.	Blasting will be planned to occur during the middle of the day when background noise levels are higher than at other times of the day.	<ul style="list-style-type: none"> • Air and Dust Management Plan • Blasting schedule 	Operations	Draft EIS - Ch5 Environmental Risk Assessment p49
223.	Where monitoring or complaints indicate airblast overpressure or ground vibration levels exceed the environmental protection objectives, the following mitigation measures will be considered: <ul style="list-style-type: none"> • Reducing the maximum instantaneous charge (MIC) by using delays, reduced hole diameter and/or deck loading. • Changing the burden and spacing by altering the drilling pattern and/or delay layout, or altering the hole inclination; • Ensuring stemming depth and type is adequate; • Restricting blasts to favourable weather conditions. 	<ul style="list-style-type: none"> • Air and Dust Management Plan • Complaints register • Stakeholder consultation 	Operations	Draft EIS - Ch5 Environmental Risk Assessment p49
224.	Where practical, construction work will be kept within the working hours prescribed by the ICNG.	<ul style="list-style-type: none"> • Air and Dust Management Plan 	Operations	Draft EIS – Ch10 Noise and Vibrations p13
225.	Equipment used on site will be in good condition, working order and fit for purpose, with preference given to silenced equipment whenever possible.	<ul style="list-style-type: none"> • Equipment maintenance • Air and Dust Management Plan 	Operations	Draft EIS – Ch10 Noise and Vibrations p13

No.	COMMITMENT	PERFORMANCE INDICATOR	TIMEFRAME	LOCATION
226.	Equipment will be operated as intended by the manufacturer.	<ul style="list-style-type: none"> • Training/ Inductions 	Operations	Draft EIS – Ch10 Noise and Vibrations p13
227.	Preference will be given to broadband reversing alarms (audible movement alarms),	<ul style="list-style-type: none"> • Vehicle maintenance and manufacture 	Operations	Draft EIS – Ch10 Noise and Vibrations p13
228.	Fixed and mobile plant will be kept properly serviced and fitted with appropriate mufflers.	<ul style="list-style-type: none"> • Vehicle maintenance and manufacture 	Operations	Draft EIS – Ch10 Noise and Vibrations p13
229.	Where practical, machinery will be operated at low speed or power and will be switched off when not being used rather than left idling for prolonged periods.	<ul style="list-style-type: none"> • Training/ Inductions 	Operations	Draft EIS – Ch10 Noise and Vibrations p13
WASTE MANAGEMENT				
Reduction of Waste				
230.	Management of non-mineralised waste in accordance with the Domestic and Industrial Waste Management Plan.	<ul style="list-style-type: none"> • Domestic and Industrial Waste Management Plan 	LOM	APM Supplement - EIS Addendum Biodiversity MP, Table 4-4 to 4-10
231.	An on-site bioremediation facility will be established to treat hydrocarbon contaminated soil to levels that can be safely disposed to the site landfill or used in rehabilitation works.	<ul style="list-style-type: none"> • Bioremediation Facility • Domestic and Industrial Waste Management Plan 	Construction	Draft EIS – App M Conceptual MCP p6
232.	Separation of waste for recycling and recovery will occur.	<ul style="list-style-type: none"> • Audits/ Inspections • Domestic and Industrial Waste Management Plan 	Construction/ Operations	Draft EIS – Ch5 Environmental Risk Assessment p51
233.	Record waste types and volumes generated and transported offsite.	<ul style="list-style-type: none"> • EMS/ Record keeping • Domestic and Industrial Waste Management Plan 	Construction/ Operations	Draft EIS – Ch5 Environmental Risk Assessment p51
234.	Non-recyclable and inert waste will be disposed of in an onsite landfill.	<ul style="list-style-type: none"> • EMS/ Record keeping • Audits/ Inspections 	Construction/ Operations	Draft EIS – Ch16 Rehabilitation and Mine Closure p11; Ch5 Environmental Risk Assessment p19
235.	Actual waste volumes against forecasted waste volumes will be assessed.	<ul style="list-style-type: none"> • Audits/ Inspections • EMS/ Record keeping • Domestic and Industrial Waste Management Plan 	Construction/ Operations	Draft EIS – Ch14 Waste Management p6
236.	Metals such as steel and copper wire will be collected in designated areas prior to removal from site for recycling.	<ul style="list-style-type: none"> • Audits/ Inspections • Domestic and Industrial Waste Management Plan 	Construction/ Operations	Draft EIS – Ch14 Waste Management p4

No.	COMMITMENT	PERFORMANCE INDICATOR	TIMEFRAME	LOCATION
237.	Plastic pipe will be reused wherever possible.	<ul style="list-style-type: none"> • Audits/ Inspections • Domestic and Industrial Waste Management Plan 	Construction/ Operations	Draft EIS – Ch14 Waste Management p4
238.	Used tyres will be collected, stored outside of potential bushfire impact areas, and periodically dispatched to offsite recyclers or a re-tread facility.	<ul style="list-style-type: none"> • Audits/ Inspections • Domestic and Industrial Waste Management Plan • Fire Management Plan 	Construction/ Operations	Draft EIS – Ch14 Waste Management p4; App N Environmental MP p49
239.	Recyclable waste will be periodically delivered to various recycling facilities or end users as back loads on regular truck schedules, therefore not impacting traffic volumes.	<ul style="list-style-type: none"> • Domestic and Industrial Waste Management Plan • Traffic Management Plan 	Construction/ Operations	Draft EIS – Ch14 Waste Management p4
240.	Greenwaste, topsoil, packaging waste (including cardboard, timber, plastics and polystyrene foam), scrap metal and general maintenance wastes will be appropriately managed to prevent degradation of amenity, blocking of drainage lines and avoiding impediments to revegetation efforts.	<ul style="list-style-type: none"> • Audits/ Inspections • Domestic and Industrial Waste Management Plan 	Construction/ Operations	Draft EIS – Ch14 Waste Management p4
241.	A site wide inventory will be prepared for reclamation materials.	<ul style="list-style-type: none"> • EMS/ Record keeping • Inventory • Domestic and Industrial Waste Management Plan 	Construction/ Operations	Draft EIS – Ch14 Waste Management p4
242.	Concrete and other non-reactive, non-combustive, non-corrosive and non-hazardous demolition waste will be broken up and either placed in the WRD or buried in-place.	<ul style="list-style-type: none"> • EMS/ Record keeping • Audits/ Inspections • Domestic and Industrial Waste Management Plan 	LOM	Draft EIS – Ch14 Waste Management p5
243.	Solid waste disposal facilities will be maintained in a manner that would not attract wildlife.	<ul style="list-style-type: none"> • Biodiversity Management Plan • Domestic and Industrial Waste Management Plan • Audits/ Inspections 	Construction/ Operations	Draft EIS – Ch14 Waste Management p5
244.	Where inert industrial wastes cannot be practically or economically disposed of offsite, they will be co-disposed with other inert waste being disposed on site. Burial will be at least 2 m below the final surface. Any empty drums will be cleaned and flattened prior to burial.	<ul style="list-style-type: none"> • EMS/ Record keeping • Domestic and Industrial Waste Management Plan • Audits/ Inspections 	Construction/ Operations	Draft EIS – Ch14 Waste Management p5
245.	Waste outside of the landfill is to be situated in bins with lids secured.	<ul style="list-style-type: none"> • Audits/ Inspections • Domestic and Industrial Waste Management Plan 	Construction/ Operations	Draft EIS – App N Environmental MP p43

No.	COMMITMENT	PERFORMANCE INDICATOR	TIMEFRAME	LOCATION
246.	Controlled burns will be held regularly at the landfill within a designated firepit to control the amount of putrescible and windblown waste.	<ul style="list-style-type: none"> • EMS/ Record keeping • Domestic and Industrial Waste Management Plan • Fire Management Plan • Audits/ Inspections 	Construction/ Operations	Draft EIS – App N Environmental MP p49
247.	Hazardous wastes including chemical waste, paints, solvents, gas bottles, waste oil and batteries will be transferred to an appropriately licenced offsite facility for disposal.	<ul style="list-style-type: none"> • EMS/ Record keeping • Audits/ Inspections • Domestic and Industrial Waste Management Plan • Contractor agreements 	Construction/ Operations	Draft EIS – App N Environmental MP p49
248.	A litter sweep of the landfill will occur on a monthly interval to collect any windblown waste.	<ul style="list-style-type: none"> • Audits/ Inspections • EMS/ Record keeping • Domestic and Industrial Waste Management Plan 	Construction/ Operations	Draft EIS – App N Environmental MP (App G Non-mineralised Waste MP p6)
SOCIAL				
Impacts on Local Communities and Surrounding Land Users				
249.	Establish a Complaints and Feedback register within a Grievance Management Procedure to track and respond to community issues.	<ul style="list-style-type: none"> • Complaints and feedback register • Stakeholder Consultation Register • Grievance Management Procedure • EMS/ Record keeping 	Pre-production	Draft EIS – Ch5 Environmental Risk Assessment p9
250.	All complaints will be investigated to determine the source of the complaint, identify any underlying cause, establish additional investigation measure (if required), summarise corrective actions and undertake follow-up to ensure corrective actions are undertaken.	<ul style="list-style-type: none"> • Complaints and feedback procedure • Stakeholder Consultation Register • Grievance Management Procedures • EMS/ Record keeping 	LOM	Draft EIS – App N Environmental MP p40
251.	Health and Safety Plan and Emergency Response Plan developed prior to commencement of construction, adopted and reviewed annually or after incidents.	<ul style="list-style-type: none"> • Health and Safety Plan • Emergency Response Plan 	Pre-production	APM supplement - Risk Assessment Table
252.	Provide support for local health services through the Community Benefit Fund at Ti-Tree prior to establishment of on-site facilities if the need arises.	<ul style="list-style-type: none"> • Community Benefit Fund • Social Impact Management Plan 	Construction	APM supplement - Risk Assessment Table
253.	Conduct cultural awareness training to make TNG staff aware of different language groups and cultural sensitivities relevant to the Traditional Owners of the Project area and surrounding language groups and Indigenous communities.	<ul style="list-style-type: none"> • Social Impact Management Plan • Indigenous Engagement Strategy • Training/ Inductions 	Construction/ Operation	APM supplement - Risk Assessment Table

No.	COMMITMENT	PERFORMANCE INDICATOR	TIMEFRAME	LOCATION
254.	Develop opportunities for local communities to benefit from employment and business prospects with the Project.	<ul style="list-style-type: none"> • Social Impact Management Plan • Workforce Management Plan • Indigenous Engagement Strategy 	Construction/ Operation	APM supplement - Risk Assessment Table
255.	Conduct a 'Opportunities for local businesses' expo at Wilora, Ti Tree, Barrow Creek and Alice Springs.	<ul style="list-style-type: none"> • Social Impact Management Plan • Workforce Management Plan • Indigenous Engagement Strategy 	Construction	APM supplement - Risk Assessment Table
256.	Flights scheduled so as to cause minimum disruption to Ti Tree residents	<ul style="list-style-type: none"> • Flight schedules • Social Impact Management Plan 	Construction/ Operation	APM supplement - Risk Assessment Table
257.	Staff will be picked up and dropped off at the Ti Tree airport in order to alight and board flights. Time in Ti Tree will be minimised and predominantly restricted to the airport.	<ul style="list-style-type: none"> • Social Impact Management Plan • Flight schedules 	Construction/ Operation	APM supplement - Risk Assessment Table
258.	Locating transport corridor predominantly along the southern boundary of Stirling Station to minimise disruption to the operation of the property.	<ul style="list-style-type: none"> • Social Impact Management Plan • Stakeholder Consultation Register 	Pre-production	APM supplement - Risk Assessment Table
259.	TNG will adaptively manage the communications and engagement with stakeholders throughout the Project to ensure that methods of engagement remain relevant and beneficial to both stakeholders and TNG.	<ul style="list-style-type: none"> • Social Impact Management Plan • Workforce Management Plan • Stakeholder Consultation register 	LOM	APM supplement - Social Impact Management Plan
260.	Where possible the Project will source goods and services from local suppliers in nearby communities.	<ul style="list-style-type: none"> • Social Impact Management Plan 	LOM	APM supplement - Social Impact Management Plan
261.	A proportion of the Project workforce may be recruited locally for activities such as environmental works (monitoring, reporting and rehabilitation), road construction, plant/machinery operation, bus drivers, camp staff and administration staff.	<ul style="list-style-type: none"> • Social Impact Management Plan • Workforce Management Plan • Indigenous Engagement Strategy 	LOM	APM supplement - Social Impact Management Plan
262.	A monitoring, evaluation, review and improvement (MERI) plan will provide the mechanism to review social impacts associated with the Project and provide an avenue for adaptive management where emerging issues are identified.	<ul style="list-style-type: none"> • Monitoring, Evaluation, Review and Improvement Plan • Social Impact Management Plan 	Construction/ Operation	APM supplement - Social Impact Management Plan
263.	Contractors required to demonstrate how the 15% indigenous workforce target will be met during letting of contracts.	<ul style="list-style-type: none"> • Social Impact Management Plan • Workforce Management Plan • Indigenous Engagement Strategy 	Construction/ Operation	APM supplement - Social Impact Management Plan

No.	COMMITMENT	PERFORMANCE INDICATOR	TIMEFRAME	LOCATION
264.	Fencing and drainage containment will be installed along roads and around the mine and accommodation village.	<ul style="list-style-type: none"> Audits/ Inspections Stakeholder Consultation Register Drainage, Erosion and Sediment Control Plan 	Construction	Draft EIS – Ch5 Environmental Risk Assessment p10
265.	A Workforce Management Strategy will be developed including workforce sources, management, health and wellbeing and appropriate behaviour.	<ul style="list-style-type: none"> Workforce Management Strategy 	Pre-production	Draft EIS – Ch5 Environmental Risk Assessment p9
266.	Reporting on social indicators will be included in TNG's annual internal reporting process.	<ul style="list-style-type: none"> Annual reporting 	Construction/ Operations	Draft EIS – Ch12 Socio-economics p11
267.	Establish clear mechanisms for ongoing consultation and communication with local Indigenous groups	<ul style="list-style-type: none"> Social Impact Management Plan Indigenous Community Engagement Strategy and Workforce Management Plan 	LOM	Draft EIS – Ch5 Environmental Risk Assessment p9
268.	Implement and monitor a Cultural Heritage Management Plan	<ul style="list-style-type: none"> Cultural Heritage Management Plan 	Pre-production	Draft EIS – Ch5 Environmental Risk Assessment p9
269.	Discussions will be held with Owner of Stirling Station during detailed design stage to ensure that access can be maintained to the property, including bores and gates.	<ul style="list-style-type: none"> Stakeholder Consultation Register 	Construction	Draft EIS – Ch5 Environmental Risk Assessment p10
270.	Discussion will be held with pastoralists regarding the weed control methods to be used in case of risks posed to organic certification.	<ul style="list-style-type: none"> Stakeholder Consultation register 	Construction	Supplement – Ch3 Supporting Technical Information p14
271.	Discussion with Traditional owners if monitoring of ground water drawdown is shown to influence facultative phraephytic vegetation	<ul style="list-style-type: none"> Leaf Water Potential monitoring 	Operation	APM Supplement - EIS Addendum Biodiversity MP
Indigenous Engagement				
272.	Identify local Indigenous community groups and businesses	<ul style="list-style-type: none"> Indigenous Engagement Strategy 	Construction/ Operation	Indigenous Engagement Strategy, Table 2
273.	Identify potential sub-contracting opportunities (where relevant) for Aboriginal owned and operated businesses.	<ul style="list-style-type: none"> Indigenous Engagement Strategy 	Construction/ Operation	Indigenous Engagement Strategy, Table 2
274.	Identify opportunities for TNG to contribute to and support activities and events in local Indigenous communities.	<ul style="list-style-type: none"> Indigenous Engagement Strategy 	Construction/ Operation	Indigenous Engagement Strategy, Table 2
275.	Identify and attend Indigenous job expos, information sessions or careers days.	<ul style="list-style-type: none"> Indigenous Engagement Strategy 	Construction/ Operation	Indigenous Engagement Strategy, Table 2

No.	COMMITMENT	PERFORMANCE INDICATOR	TIMEFRAME	LOCATION
276.	Develop cultural and professional mentoring programs to support Indigenous employees and increase retention rates.	<ul style="list-style-type: none"> Indigenous Engagement Strategy Inductions/ Training Workforce Management Plan 	Construction/ Operation	Indigenous Engagement Strategy, Table 2
277.	Explore flexible workplace arrangements to support Indigenous employees' cultural and community commitments including exploration of a Cultural and Ceremonial Leave Policy.	<ul style="list-style-type: none"> Indigenous Engagement Strategy Workforce Management Plan 	Construction/ Operation	Indigenous Engagement Strategy, Table 2
278.	Through Performance and Development review process, identify career development opportunities and training and learning needs for Indigenous employees.	<ul style="list-style-type: none"> Indigenous Engagement Strategy Workforce Management Plan 	Construction/ Operation	Indigenous Engagement Strategy, Table 2
279.	Develop and deliver an Indigenous cultural heritage induction package to all new employees which builds awareness of Aboriginal culture throughout the organisation.	<ul style="list-style-type: none"> Indigenous Engagement Strategy 	Construction/ Operation	Indigenous Engagement Strategy, Table 2
280.	Provide coaching and mentoring to managers of Indigenous employees to build their cultural competency skills.	<ul style="list-style-type: none"> Indigenous Engagement Strategy Training/ Inductions 	Construction/ Operation	Indigenous Engagement Strategy, Table 2
281.	Develop Indigenous Workforce Management Strategy evaluation plan to enable effective monitoring and reporting	<ul style="list-style-type: none"> Indigenous Engagement Strategy 	Construction	Indigenous Engagement Strategy, Table 2
282.	Annual reporting on implementation of the actions in the IWMS Action Plan	<ul style="list-style-type: none"> Indigenous Engagement Strategy 	Construction/ Operation	Indigenous Engagement Strategy, Table 2
Benefits to Local Communities				
283.	The potential opportunity to support the Ti Tree School to develop an education program for years 7 to 9 will be considered as a component of a Community Benefits Package.	<ul style="list-style-type: none"> Community Benefit Package Social Impact Management Plan 	Construction	Draft EIS – Ch6 Stakeholder Engagement p9
284.	The potential local business opportunity for the Remote Jobs and Communities Program will be considered as a component of a Community Benefits Package	<ul style="list-style-type: none"> Community Benefit Package Social Impact Management Plan 	Construction	Draft EIS – Ch6 Stakeholder Engagement p9
285.	TNG will consider establishing a Community Benefits Fund to provide support for social infrastructure or other suitable development activities in the regional study area.	<ul style="list-style-type: none"> Community Benefit Fund Social Impact Management Plan 	Construction	Draft EIS – Ch12 Socio-economics p11
286.	The details of the Community Benefit Fund will be developed by TNG in consultation with the Central Desert Shire Council and other key stakeholders.	<ul style="list-style-type: none"> Community Benefit Fund Stakeholder Consultation 	Operations	Draft EIS – Ch12 Socio-economics p11

No.	COMMITMENT	PERFORMANCE INDICATOR	TIMEFRAME	LOCATION
287.	The ESIA and the Community Benefit Fund arrangements will be reviewed annually during construction and every five years during operations.	<ul style="list-style-type: none"> Community Benefit Fund Regular reviews and updates 	Operations	Draft EIS – Ch12 Socio-economics p11
288.	Work with local training providers to develop local training programs to provide unskilled people with opportunities to gain employment in the Project.	<ul style="list-style-type: none"> Stakeholder Consultation Register Indigenous Community Engagement Strategy and Workforce Management Plan 	Construction/ Operations	Draft EIS – Ch5 Environmental Risk Assessment p8
289.	Adopt recruitment policies that allow for appropriate notice periods to be served for new employees.	<ul style="list-style-type: none"> Workforce Management Strategy Stakeholder Consultation Register Indigenous Community Engagement Strategy and Workforce Management Plan 	LOM	Draft EIS – Ch5 Environmental Risk Assessment p8
290.	Target of 15% of the workforce being indigenous.	<ul style="list-style-type: none"> Indigenous Community Engagement Strategy and Workforce Management Plan Stakeholder Consultation Register 	LOM	Draft EIS – Ch5 Environmental Risk Assessment p9
291.	Continue to work with Traditional Owners to further develop and agree on Indigenous business and employment opportunities.	<ul style="list-style-type: none"> Stakeholder Consultation Register Indigenous Community Engagement Strategy and Workforce Management Plan 	LOM	Draft EIS – Ch12 Socio-economics p10
292.	Throughout the implementation of its Indigenous Relations Policy, TNG will ensure that mutual benefits from mining activities, such as employment and training, are shared with local communities.	<ul style="list-style-type: none"> Stakeholder Consultation Register Social Impact Management Plan Indigenous Community Engagement Strategy and Workforce Management Plan 	LOM	Draft EIS – Ch12 Socio-economics p10
Public Infrastructure				
293.	Runway and facilities will be upgraded by TNG in consultation with NT Government.	<ul style="list-style-type: none"> Audits/ Inspections Stakeholder Consultation Register EMS/ Record keeping 	Construction	Draft EIS - Ch 2 Project Description p26
294.	Construct underpass of Stuart Highway to remove road trains from highway.	<ul style="list-style-type: none"> Audits/ Inspections 	Construction	Draft EIS - Ch2 Project Description p11; Ch 6 Stakeholder Engagement p7
295.	The design of the intersection of the haul/ access road with Stuart Hwy will be in consultation with the NT Department of Transport and will include the design of acceleration and deceleration lanes and the	<ul style="list-style-type: none"> Audits/ Inspections 	Pre-production	Draft EIS – Ch12 Socio-economics p8; Ch 5 Environmental Risk Assessment p13

No.	COMMITMENT	PERFORMANCE INDICATOR	TIMEFRAME	LOCATION
	incorporation of appropriate signposting to avoid or minimise any impact on other road users.			
296.	Design of Amadeus Gas Pipeline protection measures in consultation with pipeline operator, APA Group.	<ul style="list-style-type: none"> • Audits/ Inspections • Stakeholder Consultation Register • EMS/ Record keeping 	Construction	Draft EIS - Ch 2 Project Description p11
297.	Road trains used to transport concentrate will be highway compliant and will operate under shared usage conditions with other highway compliant vehicles.	<ul style="list-style-type: none"> • Contractor agreements • Audits/ Inspections 	Operations	Draft EIS - Ch 2 Project Description p22
298.	Develop an Emergency Response Plan.	<ul style="list-style-type: none"> • Emergency Response Plan • EMS/ Record keeping 	Construction	Draft EIS - Ch 5 Environmental Risk Assessment p13
299.	Develop and implement a Traffic Management Plan	<ul style="list-style-type: none"> • Traffic Management Plan • EMS/ Record keeping 	Pre-production	Draft EIS - Ch5 Environmental Risk Assessment p13; p35
300.	Upgrade high use transport areas to be safer for vehicles and fauna (e.g. no blind curves, wider shrub-free verges)	<ul style="list-style-type: none"> • Audits/ Inspections 	Construction	Draft EIS - Ch5 Environmental Risk Assessment p35; p42
301.	A stock fence will be installed along both sides of the haul/ access road to exclude cattle. No fauna aggregation points (e.g. for stock watering) will be present within the fenced corridor and no transit pathways cross the corridor. The fence will be regularly inspected, and any repairs made as necessary.	<ul style="list-style-type: none"> • Audits/ Inspections 	Construction	Draft EIS - Ch5 Environmental Risk Assessment p13; Supplement Ch4 Responses to Submissions on the Draft EIS p3
302.	Provide road safety and awareness training to all staff and contractors.	<ul style="list-style-type: none"> • Training/ Inductions 	Construction/ Operations	Draft EIS - Ch5 Environmental Risk Assessment p42
303.	Apply reduced speed limits for vehicles travelling at night.	<ul style="list-style-type: none"> • Training/ Inductions 	Construction/ Operations	Draft EIS - Ch5 Environmental Risk Assessment p42
304.	Limit vehicle speeds in all locations where roads cross waterways.	<ul style="list-style-type: none"> • Training/ Inductions • Signage 	Construction/ Operations	Draft EIS - Ch5 Environmental Risk Assessment p42
305.	Use of pooled vehicles such as buses where practical to minimise exposure.	<ul style="list-style-type: none"> • Traffic Management Plan 	Construction/ Operation	APM Supplement - Risk Assessment Table
306.	Trains operated by appropriately experienced and qualified personnel that comply with NT and Australian requirements.	<ul style="list-style-type: none"> • Traffic Management Plan 	Construction/ Operation	APM Supplement - Social Impact Management Plan
307.	Traffic diversion delays in accordance with Australian Standards.	<ul style="list-style-type: none"> • Traffic Management Plan 	Construction/ Operation	APM Supplement - Social Impact Management Plan, Table 4-1
308.	A two-tiered exclusion fence is proposed to surround the pit.	<ul style="list-style-type: none"> • Mine Management Plan 	Closure	EIS Addendum, Section 3.2.1.4
Impacts to Archaeological / Heritage Sites				

No.	COMMITMENT	PERFORMANCE INDICATOR	TIMEFRAME	LOCATION
309.	Through the detailed design phase of the Project TNG will look to avoid impacts to Aboriginal sites or areas of archaeological sensitivity.	<ul style="list-style-type: none"> • Cultural Heritage Management Plan • Archaeological surveys • Stakeholder Consultation Register 	Pre-production	Draft EIS – Ch11 Aboriginal and Historic Heritage p14
310.	Where impacts to sites are unavoidable, artefact recording and relocation will be undertaken to fully record the condition, extent and significance of artefact sites along the Hanson River and in the Central Mount Stuart/Dijilbari Hills foothills.	<ul style="list-style-type: none"> • Cultural Heritage Management Plan • Compliance with <i>Heritage Act</i> • EMS/ Record keeping • Stakeholder Consultation Register 	Construction/ Operations	Draft EIS – Ch11 Aboriginal and Historic Heritage p14
311.	TNG will lodge a Works Approval application form with the Heritage Branch to allow further archaeological excavations, in accordance with section 72 of the <i>Heritage Act</i> .	<ul style="list-style-type: none"> • Stakeholder Consultation Register • Approved Works Approval • Compliance with <i>Heritage Act</i> 	Construction/ Operations	Draft EIS – Ch11 Aboriginal and Historic Heritage p14
312.	TNG will comply with the conditions set in Sacred Site Clearance Certificate SSCC2015-034 and SSCC2015-169.	<ul style="list-style-type: none"> • Audits/ Inspections 	Construction/ Operations	Draft EIS – Ch11 Aboriginal and Historic Heritage p14
313.	All staff working on the Project will be made aware of the statutory obligations relating to historic and Aboriginal cultural heritage.	<ul style="list-style-type: none"> • Training/ Inductions 	Construction/ Operations	Draft EIS – Ch11 Aboriginal and Historic Heritage p14
314.	The management of sacred sites will be undertaken in accordance with the Cultural Heritage Management Plan.	<ul style="list-style-type: none"> • Cultural Heritage Management Plan • Audits/ Inspections 	Construction/ Operations	Draft EIS – App N Environmental MP p20
315.	Where impacts are unavoidable, artefact recording and relocation, and archaeological excavations will be undertaken to fully record the condition, extent and significance of the sites.	<ul style="list-style-type: none"> • Compliance with <i>Heritage Act</i> • Cultural Heritage Management Plan • Stakeholder Consultation Register • Social Impact Management Plan 	Construction/ Operations	Draft EIS - Ch5 Environmental Risk Assessment p46
316.	Works Approval Application lodged with the Heritage Branch to allow for archaeological works within the Project area including artefact recording and relocation, and archaeological excavations, in accordance with section 72 of the <i>Heritage Act</i> .	<ul style="list-style-type: none"> • Compliance with <i>Heritage Act</i> • Cultural Heritage Management Plan • EMS/ Record keeping 	Construction/ Operations	Draft EIS - Ch5 Environmental Risk Assessment p46
317.	Clearly demarcate (including additional buffer zone) in field, areas of significance)	<ul style="list-style-type: none"> • Compliance with <i>Heritage Act</i> • Cultural Heritage Management Plan • Ground Disturbance Procedures 	Construction/ Operations	Draft EIS - Ch5 Environmental Risk Assessment p46
318.	Modify the location of project infrastructure to avoid impacts to sacred sites.	<ul style="list-style-type: none"> • Compliance with <i>Heritage Act</i> • Audits/ Inspections • Ground Disturbance Procedures • Cultural Heritage Management Plan 	Pre-production	Draft EIS - Ch5 Environmental Risk Assessment p46
319.	Create no-go areas where required.	<ul style="list-style-type: none"> • Compliance with <i>Heritage Act</i> • Ground Disturbance Procedures • Cultural Heritage Management Plan 	Pre-production	Draft EIS - Ch5 Environmental Risk Assessment p46

No.	COMMITMENT	PERFORMANCE INDICATOR	TIMEFRAME	LOCATION
320.	Undertake inductions and provide all personnel with an understanding of the need to understand and comply with the conditions of the Sacred Site Clearance Certificates.	<ul style="list-style-type: none"> • Training/ Inductions 	Construction/ Operations	Draft EIS - Ch5 Environmental Risk Assessment p46
321.	Establish a geotechnical stability monitoring program for the sacred site situated near to the north-eastern boundary of the pit.	<ul style="list-style-type: none"> • Monitoring program • Monitoring results • EMS/ Record keeping 	Construction	Draft EIS - Ch5 Environmental Risk Assessment p47
322.	Lodge an 'Application to Carry Out Work on Heritage Place or Objective' for the recording and relocation of stone artefacts within the haul/ access road footprint.	<ul style="list-style-type: none"> • Compliance with <i>Heritage Act</i> • Cultural Heritage Management Plan 	Pre-production	Draft EIS – App N Environmental MP p45
323.	Notify the Central Land Council of stone artefact recording and relocation activities.	<ul style="list-style-type: none"> • Compliance with <i>Heritage Act</i> • Stakeholder consultation register • Cultural Heritage Management Plan 	Pre-production	Draft EIS – App N Environmental MP p45
324.	No site works will be undertaken within Central Land Council identified sacred site areas.	<ul style="list-style-type: none"> • Survey reports • Stakeholder Consultation register • Compliance with <i>Heritage Act</i> • Cultural Heritage Management Plan • Ground Disturbance Procedures 	LOM	Draft EIS – App N Environmental MP p45
325.	Site works at the Restricted Work Area will be undertaken in accordance with the Central Land Council Clearance Certificate conditions including: <ul style="list-style-type: none"> • Murray Creek and Hanson River Restricted Work Areas construction of river crossings allowed for the Haul Road on the condition the road goes no deeper than existing levels and works are supervised by traditional Aboriginal owners. • Mud Hut Swamp Restricted Work Area – transit only permitted along existing tracks within the RWA. 	<ul style="list-style-type: none"> • Ground Disturbance Procedures • EMS/ Record keeping • Stakeholder Consultation register • Cultural Heritage Management Plan • Water Management Plan • Compliance with <i>Heritage Act</i> 	LOM	Draft EIS – App N Environmental MP p45
326.	Installation of signage and fencing (where appropriate) at sacred sites adjacent to infrastructure.	<ul style="list-style-type: none"> • Cultural Heritage Management Plan • Stakeholder Consultation Register 	Construction	Draft EIS – App N Environmental MP p45
327.	Installation of signage at RWAs summarising access requirements.	<ul style="list-style-type: none"> • Audits/ Inspections 	Construction	Draft EIS – App N Environmental MP p45

No.	COMMITMENT	PERFORMANCE INDICATOR	TIMEFRAME	LOCATION
328.	If unidentified cultural heritage is exposed / identified, the following procedures will be undertaken: <ul style="list-style-type: none"> Cease works in/adjacent to the area. Install barrier/ flagging to identify the area; Inform the Construction and/or Site Manager and provide the location of works (coordinates), nature and purpose and identified cultural heritage. Construction and/or Site Manager to contact the Department of Lands, Planning and the Environment Heritage Branch and the Central Land Council for details on how to proceed. Undertake Heritage Branch and Central Land Council requirements and complete/postpone works. 	<ul style="list-style-type: none"> Compliance with <i>Heritage Act</i> Cultural Heritage Management Plan EMS/ Record keeping Training/ Inductions Stakeholder Consultation Register 	LOM	Draft EIS – App N Environmental MP p45
329.	Prior to clearing the extents shall be inspected to confirm the works do not disturb identified sacred site, RWAs or cultural heritage in accordance with the Ground Disturbance Permit procedure.	<ul style="list-style-type: none"> Ground Disturbance Procedures 	Construction	Draft EIS – App N Environmental MP p45
330.	Flagging shall be inspected regularly to ensure integrity.	<ul style="list-style-type: none"> Audits/ Inspections 	LOM	Draft EIS – App N Environmental MP p45
331.	Sacred site and RWA signage and fencing (where installed) will be inspected quarterly to ensure they remain in-situ and to establish if there is evidence of disturbance.	<ul style="list-style-type: none"> Audits/ Inspections 	Construction/ Operations	Draft EIS – App N Environmental MP p45
332.	Establish a geotechnical stability monitoring program for sacred site A (situated near the north-eastern edge of the pit).	<ul style="list-style-type: none"> Monitoring program 	Construction	Draft EIS – App N Environmental MP p45
333.	The Cultural Heritage Management Plan performance will be reviewed annually.	<ul style="list-style-type: none"> EMS/ Record keeping Audits/ Inspections 	Construction/ Operations	Draft EIS – App N Environmental MP p46
HUMAN HEALTH AND SAFETY – MINE PERSONNEL				
General				
334.	The Project will maintain an onsite medical facility and ambulance to service the workforce.	<ul style="list-style-type: none"> Audits/ Inspections 	Construction/ Operations	Draft EIS - Ch12 Socio-economics p7
335.	The Project will implement safety protocols, incident management and emergency procedures.	<ul style="list-style-type: none"> Audits/ Inspections Emergency Response Plan 	Construction/ Operations	Draft EIS - Ch12 Socio-economics p7
Risk of Formation of Toxic Gases or Explosion				
336.	Explosives will be stored in a dedicated magazine	<ul style="list-style-type: none"> Explosives magazine location Audits/ Inspections 	Construction/ Operations	Draft EIS - Ch 2 Project Description p26

No.	COMMITMENT	PERFORMANCE INDICATOR	TIMEFRAME	LOCATION
337.	Ammonium nitrate will be stored in a dedicated stand-alone building consistent with Code of Practice for the safe storage of solid ammonium nitrate.	<ul style="list-style-type: none"> Audits/ Inspections 	Operations	Draft EIS - Ch5 Environmental Risk Assessment p12
338.	Handling of ammonium nitrate will be by appropriately trained personnel.	<ul style="list-style-type: none"> Training/ Inductions 	Operations	Draft EIS - Ch5 Environmental Risk Assessment p12
339.	Personnel will be trained in handling gas facilities.	<ul style="list-style-type: none"> Training/ Inductions 	Operations	Draft EIS - Ch5 Environmental Risk Assessment p12
340.	Storage of gas will be in intermodal containers in accordance with AS 4332-2004: the storage and handling of gases in cylinders.	<ul style="list-style-type: none"> Audits/ Inspections 	Operations	Draft EIS - Ch 2 Project Description p22
Health Risks Due to Mosquito, Sun Exposure and Animal Bites/Attacks				
341.	Rectify any artificially created mosquito breeding sites.	<ul style="list-style-type: none"> Audits/ Inspections during wet season Landforms and infrastructure constructed as per engineered designs. Water Management Plan EMS/ Record keeping 	Operations	Draft EIS - Ch5 Environmental Risk Assessment p15
342.	Improve drainage of grassy floodways and poorly draining area associated with the creeklines around the mine site.	<ul style="list-style-type: none"> Audits/ Inspections during wet season Landforms and infrastructure constructed as per engineered designs. Water Management Plan EMS/ Record keeping 	Operations	Draft EIS - Ch5 Environmental Risk Assessment p15
343.	Burn dead vegetation in the floodways before the start of the Wet Season to remove mosquito harbourage and nutrient loads.	<ul style="list-style-type: none"> Audits/ Inspections EMS/ Record keeping 	Construction/ Operations	Draft EIS – Ch13 Human Health and Safety p9
344.	Prevent potential mosquito breeding in artificial receptacles such as used tyres, drums, rubbish items and other items that can pond water.	<ul style="list-style-type: none"> Container storage Waste Management Plan Audits/ Inspections Training/ Inductions 	Construction/ Operations	Draft EIS - Ch5 Environmental Risk Assessment p15
345.	Screen any rainwater tanks at the inlet and outlet.	<ul style="list-style-type: none"> Regular inspections during wet season. EMS/ Record keeping 	Construction/ Operations	Draft EIS - Ch5 Environmental Risk Assessment p15
346.	Ensure that stormwater and sedimentation ponds are regularly maintained and cleared of silt and vegetation.	<ul style="list-style-type: none"> Audits/ Inspections EMS/ Record keeping Water Management Plan 	Construction/ Operations	Draft EIS – Ch13 Human Health and Safety p9
347.	Ensure construction avoids establishment of areas of temporary water.	<ul style="list-style-type: none"> Audits/ Inspections Water Management Plan 	Construction/ Operations	Draft EIS - Ch5 Environmental Risk Assessment p15
348.	Treat artificial ponding with an undiluted bleach solution or a residual larvicide if breeding is detected.	<ul style="list-style-type: none"> Audits/ Inspections EMS/ Record keeping 	Construction/ Operations	Draft EIS - Ch5 Environmental Risk Assessment p15; Ch13 Human Health and Safety p9

No.	COMMITMENT	PERFORMANCE INDICATOR	TIMEFRAME	LOCATION
349.	Ensure personnel wear long sleeved shirts, long trousers, sunscreen and mosquito repellent.	<ul style="list-style-type: none"> • Training/ Inductions • PPE/ sunscreen/ repellent readily available 	Construction/ Operations	Draft EIS - Ch5 Environmental Risk Assessment p15
350.	Conduct monthly inspections during the Wet Season to identify areas of potential mosquito breeding.	<ul style="list-style-type: none"> • Audits/ Inspections • Record keeping 	Construction/ Operations	Draft EIS - Ch5 Environmental Risk Assessment p15
351.	Follow the "Guidelines for preventing mosquito breeding sites associated with mining sites" (Medical Entomology Centre for Disease Control).	<ul style="list-style-type: none"> • Audits/ Inspections 	Construction/ Operations	Draft EIS - Ch5 Environmental Risk Assessment p15
352.	Staff induction training will include signs and symptoms of over-exposure to heat and its effects and potential wildlife hazards. Training provided on snake bite treatment.	<ul style="list-style-type: none"> • Training/ Inductions 	LOM	Draft EIS – Ch5 Environmental Risk Assessment p16
353.	Drinking water, sunscreen and mosquito repellent will be readily available to staff	<ul style="list-style-type: none"> • Audits/ Inspections 	LOM	Draft EIS - Ch5 Environmental Risk Assessment p16
354.	First aid facilities will be equipped to respond to incidents and provide appropriate treatment	<ul style="list-style-type: none"> • Audits/ Inspections 	LOM	Draft EIS - Ch5 Environmental Risk Assessment p15
Uncontrolled Fire				
355.	Develop and implement a Fire Management Plan.	<ul style="list-style-type: none"> • Fire Management Plan • EMS/ Record keeping 	Construction	Draft EIS - Ch5 Environmental Risk Assessment p40
356.	Undertake an annual Fire Management Plan performance review.	<ul style="list-style-type: none"> • Fire Management Plan • Audits/Inspections • EMS/ Record keeping 	Construction/ Operations	Draft EIS – App N Environmental MP p49
357.	Firefighting equipment will be available during construction and operations.	<ul style="list-style-type: none"> • Training/ Inductions • Audits/ Inspections • Fire Management Plan 	Construction/ Operations	Draft EIS - Ch5 Environmental Risk Assessment p27
358.	All hot work including welding, cutting and grinding work will require prior approval of an internal hot work permit. The "hot work" risk assessment will use Australian Standard AS 1674.1 'Safety in welding and allied processes – Dire Precautions" to determine the required controls to be implemented.	<ul style="list-style-type: none"> • Hot Work Permit System • Audits/ Inspections • EMS/ Record Keeping 	Construction/ Operations	Draft EIS - Ch5 Environmental Risk Assessment p27; App N Mine MP p48
359.	All site personnel will be required to undertake fire control training, including the correct use of fire extinguishers.	<ul style="list-style-type: none"> • Training/ Inductions • Fire Management Plan 	Construction/ Operations	Draft EIS - Ch5 Environmental Risk Assessment p27
360.	All vehicles will be required to carry a fire extinguisher and a two-way radio.	<ul style="list-style-type: none"> • Training/ Inductions • Fire Management Plan • Emergency Response Plan 	Construction/ Operations	Draft EIS - Ch5 Environmental Risk Assessment p27

No.	COMMITMENT	PERFORMANCE INDICATOR	TIMEFRAME	LOCATION
361.	Fire breaks around high risk areas/activities will be maintained	<ul style="list-style-type: none"> • Fire Management Plan • Audits/ Inspections 	Construction/ Operations	Draft EIS - Ch5 Environmental Risk Assessment p40
362.	Small scale, cool season control burns will be undertaken	<ul style="list-style-type: none"> • Fire Management Plan • Audits/ Inspections 	Construction/ Operations	Draft EIS - Ch5 Environmental Risk Assessment p40
363.	Pre-fire season planning will be undertaken between Mount Peak Management Team, Traditional Owners and Bushfires NT.	<ul style="list-style-type: none"> • Stakeholder Consultation Register • Fire Management Plan 	Construction/ Operations	Draft EIS – App N Environmental MP p48
364.	TNG will annually collaborate controlled burns activities with stakeholders including: <ul style="list-style-type: none"> • Central Land Council (Traditional Owners) • Stirling Pastoral Lease • Anningie Pastoral Lease • Northern Territory Emergency Service – Ti Tree Volunteer Unit. 	<ul style="list-style-type: none"> • Stakeholder Consultation Register • Fire Management Plan 	Construction/ Operations	Draft EIS – App N Environmental MP p48
365.	Inspections of landfill and waste management practices to identify potential accumulation of combustible materials and associated risks will be undertaken prior to April.	<ul style="list-style-type: none"> • Non-mineralised Waste Management Plan • Fire Management Plan • Audits/ Inspections • EMS/ record keeping 	Construction/ Operations	Draft EIS – App N Environmental MP p48
366.	TNG will maintain a clear and continuous firebreak of 10 m minimum around infrastructure including: <ul style="list-style-type: none"> • Processing Plant • Gatehouse • Explosives Magazine • Mine Camp • Adnera Loadout Facility. 	<ul style="list-style-type: none"> • Fire Management Plan • Audits/ Inspections 	Construction/ Operations	Draft EIS – App N Environmental MP p49
367.	Creation and maintenance of adequate firebreaks around service areas/ high risk areas where hot work is undertaken.	<ul style="list-style-type: none"> • Fire Management Plan 	Construction/ Operation	Biodiversity MP, Table 4-5
368.	Carefully plan and identify where and when high-risk activities can take place.	<ul style="list-style-type: none"> • Fire Management Plan 	Construction/ Operation	Biodiversity MP, Table 4-5
369.	Implement active fire management, using localised cool-season control burns within 100 m of mine activities and roads to reduce fuel loads.	<ul style="list-style-type: none"> • Fire Management Plan 	Construction/ Operation	Biodiversity MP, Table 4-5
370.	Ensure that spot fire control measures are in place and staff are adequately trained in the use of fire extinguishers.	<ul style="list-style-type: none"> • Fire Management Plan 	Construction/ Operation	Biodiversity MP, Table 4-5
371.	Avoid driving on or parking on roadside shoulders where vegetation has regenerated.	<ul style="list-style-type: none"> • Fire Management Plan 	LOM	Biodiversity MP, Table 4-5

No.	COMMITMENT	PERFORMANCE INDICATOR	TIMEFRAME	LOCATION
372.	Consider the integration of traditional owner fire management practices ('Right Way Fire) to ensure that the landscape is burnt as a mosaic.	<ul style="list-style-type: none"> Fire Management Plan 	Construction/ Operation	Biodiversity MP, Table 4-5
MINE CLOSURE AND REHABILITATION				
General				
373.	The Closure and Rehabilitation Plan will be updated and refined throughout mining operations including life of mine closure planning, contingency planning, closure provisions, waste rock management plan and a care and maintenance plan.	<ul style="list-style-type: none"> Closure and Rehabilitation Plan 	Operations/ Closure	Draft EIS – Ch5 Environmental Risk Assessment p52; p53
374.	Prior to closure, a Decommissioning and Demolition Plan will be developed for infrastructure that is to be removed from site.	<ul style="list-style-type: none"> Decommissioning and Demolition Plan Mine Closure Plan 	Operations	Draft EIS – App M Conceptual MCP p6
375.	Develop a Rehabilitation Strategy	<ul style="list-style-type: none"> Rehabilitation Strategy Closure and Rehabilitation Plan 	Operations/ Closure	Draft EIS – Ch15 Matters of National Environmental Significance p4
376.	TNG will establish and maintain a document management system to store all relevant rehabilitation and closure information for the Project.	<ul style="list-style-type: none"> EMS/ Record keeping Closure and Rehabilitation Plan Annual environmental reporting 	LOM	Draft EIS – Ch16 Rehabilitation and Mine Closure p8; App M Conceptual MCP p6
377.	A Compliance Register for the Project will be developed and maintained that documents all approvals, permits and their conditions.	<ul style="list-style-type: none"> EMS/ Record keeping 	LOM	Draft EIS – App M Conceptual MCP p6
378.	A financial provision for closure will be developed and regularly updated during the life of mine.	<ul style="list-style-type: none"> Financial Provision Closure and Rehabilitation Plan EMS/ Record keeping 	LOM	Draft EIS – App M Conceptual MCP p6
379.	A progressive rehabilitation schedule will be developed as mining planning processes are further developed.	<ul style="list-style-type: none"> Closure and Rehabilitation Plan 	Construction/ Operations	Draft EIS – App M Conceptual MCP p6
380.	Regular communication with stakeholders will occur throughout the life of mine with specific consultation on mine closure issues.	<ul style="list-style-type: none"> Stakeholder Consultation Register Closure and Rehabilitation Plan 	LOM	Draft EIS – App M Conceptual MCP p6
381.	A decommissioning audit will be conducted after decommissioning of the site to confirm performance indicators are satisfied.	<ul style="list-style-type: none"> Audits/ Inspections EMS/ Record keeping Decommissioning and Demolition Plan 	Closure	Draft EIS – App M Conceptual MCP p34

No.	COMMITMENT	PERFORMANCE INDICATOR	TIMEFRAME	LOCATION
382.	Progressive rehabilitation of the mine will be undertaken using local provenance native species.	<ul style="list-style-type: none"> • EMS/ Record keeping • Closure and Rehabilitation Plan • Audits/ Inspections 	Operations/ Closure	Draft EIS – Ch5 Environmental Risk Assessment p52
383.	An initial rehabilitation species list will be developed using baseline botanical information. This list is to be reviewed and refined during the life of mine based on results of rehabilitation trials.	<ul style="list-style-type: none"> • EMS/ Record keeping • Mine Closure Plan • Closure and Rehabilitation Plan 	LOM	Draft EIS – App M Conceptual MCP p6
384.	Landforms will be located and designed to optimise blending with the surrounding topography.	<ul style="list-style-type: none"> • Audits/ Inspections • Closure and Rehabilitation Plan 	Pre-production	Draft EIS – Ch8 Biodiversity p18
385.	No mass vegetation deaths caused by AMD or salt in the vicinity of the Integrated Waste Landform or ROM pad.	<ul style="list-style-type: none"> • AMD Management Plan • Closure and Rehabilitation Plan Monitoring 	Operations/ Closure	Draft EIS - Ch16 Rehabilitation and Mine Closure p6
386.	Waste landforms will be stable and safe.	<ul style="list-style-type: none"> • Audits/ Inspections. • Closure and Rehabilitation Plan 	Closure	Draft EIS – Ch16 Rehabilitation and Mine Closure p6
387.	Disturbed areas will be rehabilitated.	<ul style="list-style-type: none"> • Audits/ Inspections • Closure and Rehabilitation Plan 	Closure	Draft EIS – Ch16 Rehabilitation and Mine Closure p6
388.	A layer of topsoil will be respread over disturbed areas.	<ul style="list-style-type: none"> • Audits/ Inspections • EMS/ Record keeping • Rehabilitation materials audit 	Closure	Draft EIS – App M Conceptual MCP p32
389.	Erosion (rill assessment) of the WRD will be conducted at the same time as rehabilitation monitoring to provide a stability index for the landform over time.	<ul style="list-style-type: none"> • Audits/ Inspections • Rehabilitation monitoring • Closure and Rehabilitation Plan • EMS/ Record keeping 	Closure	Draft EIS – App M Conceptual MCP p36
390.	Vegetative material will be collected and stored for reuse in rehabilitation.	<ul style="list-style-type: none"> • Annual Reporting • Ground Disturbance Procedures 	Construction/ Operations	Draft EIS - Ch2 Project Description p9; Ch8 Biodiversity p18
391.	Topsoil stockpiles will be mapped and approximate quantities recorded.	<ul style="list-style-type: none"> • EMS/ Record keeping • Closure and Rehabilitation Plan 	Construction/ Operations	Draft EIS – App M Conceptual MCP p33; Ch5 Environmental Risk Assessment p53
392.	Topsoil will be removed and stockpiled in a designated area to prevent erosion or run-off.	<ul style="list-style-type: none"> • Annual Reporting • Ground Disturbance Procedures 	Construction/ Operations	Draft EIS - Ch 2 Project Description p9; Ch8 Biodiversity p18

No.	COMMITMENT	PERFORMANCE INDICATOR	TIMEFRAME	LOCATION
393.	Revegetation trials will be conducted to determine the best practice for revegetation of the site.	<ul style="list-style-type: none"> EMS/ Record keeping Closure and Rehabilitation Plan 	Operations/ Closure	Draft EIS – Ch5 Environmental Risk Assessment p52
394.	Seed storage and inventory procedures will be implemented	<ul style="list-style-type: none"> EMS/ Record keeping Audits/ Inspections 	Construction/ Operations	Draft EIS – Ch5 Environmental Risk Assessment p54
395.	Where required, surfaces that have been covered with topsoil and ripped will be seeded with local native species which are compatible with other species in the area.	<ul style="list-style-type: none"> Closure and Rehabilitation Plan EMS/ Record keeping 	Closure	Draft EIS - Ch16 Rehabilitation and Mine Closure p5
396.	Seeding will be carried out prior to the onset of the main rainfall season.	<ul style="list-style-type: none"> Closure and Rehabilitation Plan EMS/ Record keeping 	Closure	Draft EIS - Ch16 Rehabilitation and Mine Closure p5; App M Conceptual MCP p32
397.	Where required, fertiliser may be applied to maximise the success of plant growth.	<ul style="list-style-type: none"> Closure and Rehabilitation Plan EMS/ Record keeping 	Closure	Draft EIS - Ch16 Rehabilitation and Mine Closure p5; App M Conceptual MCP p32
398.	Ripping will be undertaken, where required.	<ul style="list-style-type: none"> Audits/ Inspections 	Closure	Draft EIS – Ch16 Rehabilitation and Mine Closure p3
Mine Closure - Infrastructure, road and rail				
399.	All mine infrastructure that does not have a sequential use agreement in place at the time of closure will be demolished and removed.	<ul style="list-style-type: none"> Audits/ Inspections 	Closure	Draft EIS – Ch16 Rehabilitation and Mine Closure p6; Ch5 Environmental Risk Assessment p54
400.	Roads may be retained for pastoral use, fire breaks and general access.	<ul style="list-style-type: none"> Sequential use agreement Stakeholder Consultation Register Audits/ Inspections EMS/ Record keeping 	Closure	Draft EIS – Ch16 Rehabilitation and Mine Closure p12
401.	All mobile plant, transportable structures and consumables will be removed.	<ul style="list-style-type: none"> Audits/ Inspections 	Closure	Draft EIS – Ch16 Rehabilitation and Mine Closure p7
402.	Roads will be reshaped in order to reinstate natural drainage lines so that waters are not impounded.	<ul style="list-style-type: none"> Audits/ Inspections Mine Closure Plan Water Management Plan 	Closure	Draft EIS – Ch16 Rehabilitation and Mine Closure p7

No.	COMMITMENT	PERFORMANCE INDICATOR	TIMEFRAME	LOCATION
403.	Roads required for post closure monitoring purposes and maintenance will be in a useable condition	<ul style="list-style-type: none"> • Audits/ inspections • Regular maintenance 	Closure	Draft EIS – Ch16 Rehabilitation and Mine Closure p7
404.	Rehabilitated road areas will be stable and non-eroding.	<ul style="list-style-type: none"> • Audits/ Inspections • Closure and Rehabilitation Plan 	Closure	Draft EIS – Ch16 Rehabilitation and Mine Closure p7
405.	Above ground pipelines and power infrastructure will be removed.	<ul style="list-style-type: none"> • Audits/ Inspections • Decommissioning and Demolition Plan 	Closure	Draft EIS – Ch16 Rehabilitation and Mine Closure p7
406.	Buried pipelines will be flushed, emptied, grouted at either end and buried below the surface.	<ul style="list-style-type: none"> • Decommissioning and Demolition Plan • Audits/ Inspections 	Closure	Draft EIS – Ch16 Rehabilitation and Mine Closure p7
407.	All structures will be decontaminated (if necessary) and washed down prior to the commencement of demolition works.	<ul style="list-style-type: none"> • Decommissioning and Demolition Plan • Audits/ Inspections • EMS/ Record keeping 	Closure	Draft EIS – Ch16 Rehabilitation and Mine Closure p11
408.	Structural engineers will determine a safe and efficient dismantling procedure and prepare a demolition plan.	<ul style="list-style-type: none"> • Decommissioning and Demolition Plan • EMS/ Record keeping 	Closure	Draft EIS – Ch16 Rehabilitation and Mine Closure p11
409.	Structures will be pulled to the ground and dismantled.	<ul style="list-style-type: none"> • Decommissioning and Demolition Plan • Audits/ Inspections • EMS/ Record keeping 	Closure	Draft EIS – Ch16 Rehabilitation and Mine Closure p11
410.	Concrete slabs and footings will be broken down and buried to a depth of 1 m.	<ul style="list-style-type: none"> • Decommissioning and Demolition Plan • Audits/ Inspections • EMS/ Record keeping 	Closure	Draft EIS – Ch16 Rehabilitation and Mine Closure p7; p11
411.	Services will be removed or buried at a depth of at least 1m below the final ground surface.	<ul style="list-style-type: none"> • Decommissioning and Demolition Plan • Audits/ Inspections • EMS/ Record keeping 	Closure	Draft EIS – Ch16 Rehabilitation and Mine Closure p11
412.	All areas will be ripped to break compaction prior to overburden and/ or topsoil application.	<ul style="list-style-type: none"> • Decommissioning and Demolition Plan • Closure and Rehabilitation Plan • EMS/ Record keeping 	Closure	Draft EIS – Ch16 Rehabilitation and Mine Closure p11
413.	Sumps, bunding and bitumen will be removed (where applicable)	<ul style="list-style-type: none"> • Decommissioning and Demolition Plan • EMS/ Record keeping • Audits/ Inspections 	Closure	Draft EIS – Ch16 Rehabilitation and Mine Closure p11
414.	Windrows respread over the road surface and road crown reshaped (where applicable).	<ul style="list-style-type: none"> • Rehabilitation Strategy • Closure and Rehabilitation Plan • Audits/ Inspections • EMS/ Record keeping 	Closure	Draft EIS – Ch16 Rehabilitation and Mine Closure p11

No.	COMMITMENT	PERFORMANCE INDICATOR	TIMEFRAME	LOCATION
415.	Where haul roads disrupt surface drainage, excavation will occur at low points to re-establish natural drainage paths.	<ul style="list-style-type: none"> • Audits/ Inspections • Rehabilitation Strategy • Closure and Rehabilitation Plan • Water Management Plan 	Closure	Draft EIS – Ch16 Rehabilitation and Mine Closure p11
416.	Once surface infrastructure is removed, any surface staining from hydrocarbons will be removed and taken to the bioremediation area.	<ul style="list-style-type: none"> • Closure and Rehabilitation Plan • EMS/ Record keeping • Audits/ Inspections 	Closure	Draft EIS – App M Conceptual MCP p29
417.	Any visual staining from hydrocarbons beyond the surface zone will be the subject of a sampling program to quantify the likely further extent of contamination.	<ul style="list-style-type: none"> • Mine Closure Plan • EMS/ Record keeping • Audits/ Inspections • Reporting 	Closure	Draft EIS – App M Conceptual MCP p30
418.	If initial sampling indicates significant contamination levels remain in-situ, a remediation plan will be developed to remove or remediate the contamination.	<ul style="list-style-type: none"> • Remediation Plan • Monitoring results • EMS/ Record keeping 	Closure	Draft EIS – App M Conceptual MCP p30
Mine Closure - Integrated Waste Landform				
419.	Outer slopes of the facility will be battered to the conceptual design shown in Figure 16-9 (Draft EIS Ch16, p11) or an alternative design approved by a suitably qualified geotechnical engineer.	<ul style="list-style-type: none"> • Audits/ Inspections • EMS/ Record keeping • Closure and Rehabilitation Plan 	Closure	Draft EIS – Ch16 Rehabilitation and Mine Closure p10
420.	Water runoff from the outer slopes of the landform will be contained by a toe drain/ bund wall and directed to a sump(s) prior to release into natural drainage systems.	<ul style="list-style-type: none"> • Audits/ Inspections • Closure and Rehabilitation Plan 	Operations/ Closure	Draft EIS – Ch16 Rehabilitation and Mine Closure p10
421.	Surface will be covered with topsoil, ripped and seeded.	<ul style="list-style-type: none"> • Closure and Rehabilitation Plan • Audits/ Inspections • EMS/ Record keeping 	Closure	Draft EIS – Ch16 Rehabilitation and Mine Closure p10
422.	Water quality parameters in groundwater monitoring bores do not exceed values representative of analogue sites and/ or baseline data	<ul style="list-style-type: none"> • Baseline surveys • Groundwater monitoring • Closure and Rehabilitation Plan • Water Management Plan 	Operations/ Closure	Draft EIS – Ch16 Rehabilitation and Mine Closure p6
423.	Monitoring bores will be sampled post-closure (for up to 5 years)	<ul style="list-style-type: none"> • Annual Environmental reporting • Closure and Rehabilitation Plan • EMS/ Record keeping 	Closure	Draft EIS – App M Conceptual MCP p26

No.	COMMITMENT	PERFORMANCE INDICATOR	TIMEFRAME	LOCATION
Mine Closure - Pits				
424.	An abandonment bund will be constructed in accordance with the Safety Bund Walls Around Abandoned Open Pit Mines Guidelines (DOIR 1997) or in accordance with geotechnical studies conducted to determine the extent of bunding to be constructed.	<ul style="list-style-type: none"> Audits/ Inspections EMS/ Record keeping 	Closure	Draft EIS – Ch16 Rehabilitation and Mine Closure p8; Ch 5 Environmental Risk Assessment p54
425.	The pit will remain as an open void and not be rehabilitated.	<ul style="list-style-type: none"> Audits/ Inspections 	Closure	Draft EIS – Ch16 Rehabilitation and Mine Closure p8
426.	The pit will be left safe, restricting unauthorised public access by utilising abandonment bunding and/ or re-profiled mine landforms.	<ul style="list-style-type: none"> Audits/ Inspections Closure and Rehabilitation Plan 	Closure	Draft EIS – Ch16 Rehabilitation and Mine Closure p8
427.	Surfaces outside the abandonment bund will be covered with topsoil, ripped and seeded.	<ul style="list-style-type: none"> Audits/ Inspections Closure and Rehabilitation Plan 	Closure	Draft EIS – Ch16 Rehabilitation and Mine Closure p8
428.	A geotechnical assessment of pit will be undertaken.	<ul style="list-style-type: none"> Geotechnical report Closure and Rehabilitation Plan Annual reporting 	Operations/ Closure	Draft EIS – Ch5 Environmental Risk Assessment p54
Monitoring and Maintenance				
429.	Further investigation of rehabilitation to identify indices with which to evaluate successful establishment of keystone species	<ul style="list-style-type: none"> Flora surveys Closure and Rehabilitation Plan 	Operations/ Closure	Draft EIS – Ch5 Environmental Risk Assessment p54; App M Conceptual MCP p26
430.	Annual rehabilitation monitoring undertaken prior to, and following completion of rehabilitation.	<ul style="list-style-type: none"> Closure and Rehabilitation Plan Annual reporting EMS/ Record keeping 	Closure	Draft EIS – Ch8 Biodiversity p18
431.	If monitoring identifies that completion criteria are not being met, additional rehabilitation and monitoring will be completed until such criteria are met.	<ul style="list-style-type: none"> Closure and Rehabilitation Plan Annual reporting EMS/ Record keeping 	Closure	Draft EIS – Ch8 Biodiversity p18
432.	Rehabilitation monitoring will assess species diversity, plant diversity and community structure against agreed completion criteria.	<ul style="list-style-type: none"> Closure and Rehabilitation Plan Flora surveys EMS/ Record keeping 	Closure	Draft EIS – Ch8 Biodiversity p18

No.	COMMITMENT	PERFORMANCE INDICATOR	TIMEFRAME	LOCATION
433.	Post-closure monitoring will include assessment of public safety, geotechnical stability, physical stability, chemical stability and revegetation success.	<ul style="list-style-type: none"> • Closure and Rehabilitation Plan • EMS/ Record keeping 	Closure	Draft EIS – Ch8 Biodiversity p18
434.	TNG will compile all monitoring results into a report on rehabilitation performance against closure criteria.	<ul style="list-style-type: none"> • Closure and Rehabilitation Plan • Rehabilitation report 	Closure	Draft EIS – App M Conceptual MCP p34
435.	Photographic monitoring will be used to provide a record of short and long-term changes to the vegetation.	<ul style="list-style-type: none"> • EMS/ Record keeping • Annual environmental reporting • Closure and Rehabilitation Plan 	Operations/Closure	Draft EIS – App M Conceptual MCP p36
436.	Should visual inspections or monitoring results indicate the need for maintenance works or remedial action to be undertaken, TNG will mobilise contractors to site to undertake these works.	<ul style="list-style-type: none"> • EMS/ Record keeping • Rehabilitation monitoring • Contractor agreements 	Closure	Draft EIS – Ch16 Rehabilitation and Mine Closure p8
Biodiversity in Revegetation Areas				
437.	Seeds will be collected for the rehabilitation program and sources locally, within a 20 km radius of the Project Area wherever possible.	<ul style="list-style-type: none"> • Closure and Rehabilitation Plan • EMS/ Record keeping 	Construction	Draft EIS – Ch8 Biodiversity p18
438.	Seeds will comprise both annual and perennial species, focussing on a diverse species assemblage while providing structural heterogeneity, landform stability and visible cover throughout the year.	<ul style="list-style-type: none"> • EMS/ Record keeping • Rehabilitation Strategy • Closure and Rehabilitation Plan 	Closure	Draft EIS – App M Conceptual MCP p32
439.	Species richness, species diversity and plant density of the restored community exceeds the median in the range of values established for baseline vegetation communities.	<ul style="list-style-type: none"> • Baseline flora surveys • Closure and Rehabilitation Plan • Monitoring program • EMS/ Record keeping 	Closure	Draft EIS – Ch8 Biodiversity p18
440.	Dominant species in the restored community are also dominant in the baseline vegetation communities.	<ul style="list-style-type: none"> • Baseline survey data • Monitoring Program • Closure and Rehabilitation Plan • EMS/ Record keeping 	Closure	Draft EIS – Ch8 Biodiversity p18
441.	Self-sustaining native vegetation communities are returned after mining, which in species composition and ecological function are representative of naturally occurring analogue sites.	<ul style="list-style-type: none"> • Closure and Rehabilitation Plan • Monitoring program • EMS/ Record keeping 	Closure	Draft EIS – Ch8 Biodiversity p18