

Date: 13/10/2021

Project Title: Snowy 2.0 – Future Generation Joint Venture

Project Description: Salini Impregilo, Clough and Lane trading as Future Generation Joint Venture (Future Gen) is a main contractor of Snowy 2.0 EPC Project. The Project is a pumped hydro project that will increase the generation capacity of the Snowy Mountains Scheme by up to 2,000MW and at full capacity will provide approximately 350,000MW/h of energy storage. The project includes all activities associated with the requirements for the Snowy 2.0 Pumped Hydro-electric Scheme.

Opportunity Title: Waste Management Services – Project Wide

Opportunity Description:

Full scope of Waste Management Services:

The Scope of Work (SoW) under this supply agreement will cover the provision of waste management services for all Snowy 2.0 project work fronts including, but not limited to:

- Lobs Hole
- Talbingo
- Marica
- Tantangara
- Segment Factory
- Rock Forest; and
- Accommodations at Joule Ridge and Adaminaby.

The scope covered under this package includes the supply, delivery, pickup, removal, and disposal of bins, skips and other suitable waste receptacles to manage waste generated from construction camps, offices, construction work sites, operational facilities (Segment Factory) and other facilities.

Tentative Schedule: From Dec 21 to Dec 26

Approximate Waste Quantities: Refer to attached Quantity Summary

Requirements:

FG JV requires Vendor:

- to provide evidence of similar experience in the Business Industry
- to provide evidence of the required government or industry certifications, licenses, associations and/or insurances to deliver the opportunity
- to comply with all Safety and Environmental Management requirements for the Project. Site Specific Environmental Management Plans
- At each of the project sites, waste will be managed in such a way to separate waste streams to the extent practicable, to avoid cross contamination and to maximise the potential for recycling.

- Where wastes cannot be pre-classified under NSW Waste Classification Guidelines, waste classification will be undertaken by Future Generation to allow for the appropriate disposal of waste by the subcontractor.
- Waste disposal will be undertaken in accordance with the POEO Act and the Waste Avoidance and Resource Recovery Act 2001. Wastes that are unable to be reused or recycled will be disposed of offsite to an appropriately approved and licensed waste management facility following classification.
- to demonstrate an exemplary safety record and a documented management system for tracking safety performance
- to be financially viable and can demonstrate commercial value

General Information:

FGJV will consider all ICN Registrations where:

- The business demonstrates through their response a clear capability against the key requirements.
- The business completes a response to all Future Gen questions and/or Future Gen documentation
- The businesses ICN profile is up to date and complete.
- The registration is complete prior to any closing date.
- The business operates in Australia and is a registered Australian business.

Local & Regional Content:

FGJV strongly encourages businesses who have head offices and/or dedicated premises with the appropriate Local Government approvals from the following regions:

- Snowy Monaro Regional Council Local Government Area.
- Snowy Valleys Council Local Government Area.
- Furthermore, Future Gen strongly encourages Aboriginal and Torres Strait Islander businesses to submit applications.

Notes:

FGJV will obtain ongoing reporting from ICN on a regular basis.

FGJV will review all registrations, noting that any incomplete registration will be excluded from consideration.

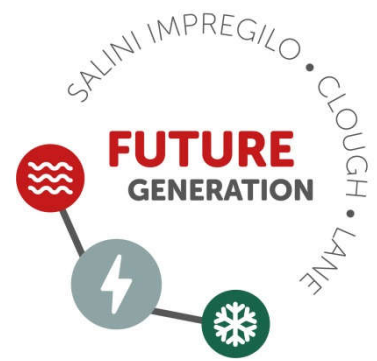
Further involvement may range from a request for a follow up meeting; request to prequalify, through to request for tender.

Submitting a registration of interest does not guarantee that the supplier will be selected for prequalification or tender opportunities.

Annexure:

Waste Management Service SOW: Draft

Approximate Waste Quantity Summary: Draft



S2-FGJV-ENV-PLN-SOW-467

SNOWY 2.0 – WASTE MANAGEMENT SERVICES – SCOPE OF WORK

Approval Record			
Document preparation, review and approval		Name in print	Signature
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Document Revision Table		
Rev.	Date	Description of modifications / revisions
A	06.10.2021	For approval
B	12.10.2021	For distribution

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ABBREVIATIONS AND DEFINITIONS

Acronym	Definition
AS	Australian Standard
Client	Snowy Hydro Ltd.
Future Generation	Future Generation Joint Venture
DDSR	Document and Data Submittal Requirements
E&M	Electrical & Mechanical Contractor
EMS	Environmental Management Strategy
ENM	Excavated Natural Material
EP&A Act	<i>Environmental Planning and Assessment Act 1979</i>
EPA	NSW Environment Protection Authority
EPC	Engineering, Procurement and Construction
EPL	Environment Protection Licence
Future Generation	Future Generation Joint Venture
KNP	Kosciusko National Park
MTO	Material Take-Off
NEM	National Energy Market
NSW	New South Wales
POEO General Regulation	<i>Protection of the Environment Operations (General) Regulation 2009</i>
POEO Waste Regulation	<i>Protection of the Environment Operations (Waste) Regulation 2014</i>
POEO Act	<i>Protection of the Environment Operations Act 1997</i>
Project, the	Snowy 2.0
Site	Snowy 2.0 Work Locations
Snowy Hydro	Snowy Hydro Limited
SoW	Scope of Work
SP	Separable Portion
Subcontractor	SOW Provider
TCLP	Toxicity Characteristics Leaching Procedure
TQ	Technical Query
VENM	Virgin excavated natural material
WARR Act	<i>Waste Avoidance and Resource Recovery Act 2001</i>
WHS	Workplace, Health & Safety
WMP	Waste Management Plan

1. PROJECT DESCRIPTION

Webuild, Clough and Lane have formed the Future Generation Joint Venture (Future Generation) to provide the Engineering, Procurement and Construction (EPC) package for Snowy Hydro Limited (Snowy Hydro) on the Snowy 2.0 Project (the project).

The project is a pumped hydro project that will increase the electricity generation capacity of the Snowy Mountains Scheme by up to 2,000MW and, at full capacity will provide approximately 350,000MW/h of energy storage.

Intake and outlet structures will be built at both Tantangara and Talbingo Reservoirs, which are in the Kosciusko National Park (KNP) in southern NSW. Approximately 27 km of concrete lined tunnels will be constructed to link the two reservoirs and a further 20 km of tunnels will be required to support the facility. The power station complex will be located almost one kilometre underground.

The project will deliver one of the largest pumped hydro schemes in the world and underscores the importance of the Snowy Scheme's role in the National Electricity Market (NEM).

Webuild, Clough and Lane have formed the Future Generation Joint Venture (Future Generation) and have been engaged to deliver multiple stages of Snowy 2.0, including Stage 2 of Exploratory Works, Main Works, and the construction and operation of the Segment Factory and Joule Ridge workers accommodation.

Construction of the project is expected to continue until the end of 2026 finishing with fit out, testing, commissioning and site rehabilitation, and staged operation of the project. The Segment Factory commenced construction in May 2020 and is expected to operate for the duration of the tunnel construction of Snowy 2.0.

1.1. Main Works

The Snowy 2.0 Main Works project includes, but is not limited to, construction of the following:

- pre-construction preparatory activities including dilapidation studies, survey, investigations, access etc;
- an underground pumped hydro-electric power station complex;
- water intake structures at the Tantangara and Talbingo reservoirs;
- power waterway tunnels, chambers and shafts;
- access tunnels;
- new and upgraded roads to allow ongoing access and maintenance;
- power, water and communication infrastructure, including:
 - a cable yard to facilitate connection between the NEM electricity transmission network and Snowy 2.0;
 - permanent auxiliary power connection;
 - permanent communication cables;
 - permanent water supply to the underground power station; and
- post-construction revegetation and rehabilitation.

Site-based accommodation camps will be set up to house the temporary workforce for Main Works at Lobs Hole, Marica and Tantangara. The Lobs Hole camp will provide accommodation for approximately 1,250 workers during construction, with Marica and Tantangara housing

approximately 100 and 500 respectively. The accommodation camp layouts will include ensuite rooms surrounding central facilities including a kitchen, gym, administration office, laundry, maintenance building, sewage and water treatment plants and parking.

1.2. Segment Factory

The Snowy 2.0 Segment Factory is required to manufacture precast concrete segments exclusively to line the tunnels being excavated for Snowy 2.0. The Segment Factory is located on industrial-zoned land in the south-eastern corner of Polo Flat, east of Cooma.

The operational facility contains a concrete batching plant, a warehouse building for the manufacture of precast concrete segments (the precast building), uncovered storage areas for raw material and segments, vehicle parking areas and associated offices and workshops.

1.3. Joule Ridge

In order to accommodate workers based outside the Snowy Monaro regional area, workers accommodation is being constructed at land on Solomon Lane, Cooma.

The Joule Ridge site will comprise 46 dwelling sites providing accommodation for 126 personnel, parking, an administration office building, communal facilities (including community hall, laundry, gymnasium, spiritual room, first aid, and lockers) and landscaped open areas and recreation and BBQ areas.

2. SCOPE OF WORKS

2.1. General

The Scope of Work (SoW) under this supply agreement will cover the provision of waste management services for all Snowy 2.0 project work fronts including, but not limited to:

- Lobs Hole;
- Talbingo;
- Marica;
- Tantangara;
- Segment Factory;
- Rock Forest; and
- Accommodations at Joule Ridge and Adaminaby.

The duration of this scope of works in December 2021 to the approximate completion of the project in December 2026.

The scope covered under this package includes the supply, delivery, pickup, removal and disposal of bins, skips and other suitable waste receptacles to manage waste generated from construction camps, offices, construction work sites, operational facilities (Segment Factory) and other facilities.

Wastes generated will include (but not be limited to):

- residential and commercial waste generated from residential construction camps and site offices (putrescible, general solid and recyclable);
- building and construction waste (including steel, conduits and pipes, timber, concrete, tyres and packaging materials);
- liquid waste from commercial kitchen grease traps, wheel wash sumps, chemical/hydrocarbon storage bunds;
- hazardous construction wastes (including oils, grease, fuels, chemicals, batteries, radiator and hydraulic fluids);
- screenings, solid and sludge waste generated from packaged sewage treatment and industrial water treat plants;
- contaminated soils; and
- other special wastes (clinical, medical).

At each of the project sites, waste will be managed in such a way to separate waste streams to the extent practicable, to avoid cross contamination and to maximise the potential for recycling.

Where wastes cannot be pre-classified under NSW Waste Classification Guidelines, waste classification will be undertaken by Future Generation to allow for the appropriate disposal of waste by the subcontractor.

Waste disposal will be undertaken in accordance with the POEO Act and the Waste Avoidance and Resource Recovery Act 2001. Wastes that are unable to be reused or recycled will be disposed of offsite to an appropriately approved and licenced waste management facility following classification.

A summary of the waste streams comprising this scope of works is provided in Appendix A.

2.2. Scope Details

The SoW includes but is not limited to the following work:

- preparation, implementation and maintenance of, and compliance with, Management Plans pertaining to:
 - work health and safety;
 - environmental protection and compliance;
 - quality assurance;
 - project controls management;
 - information management;
 - transport management plan; and
 - heavy vehicular management plan.
- establish and maintain a Quality Management System (QMS) in conformity with ISO 9001 as a means of ensuring that services conform to relevant Australian Standards for the supplied product. Future Generation may audit the system for compliance;
- supply of adequate number of waste receptacles of a standard design and quality (including fixed covers) to site facilities;
- provision of a permanent sub-contractor logistics manager;
- maintenance and replacement of waste receptacles as required;
- regular and reliable pickup of waste receptacles on a scheduled basis and or on call request; and
- off-site segregation, recycling and disposal of waste to an appropriately licensed waste management facility and provision of records of such disposal; and
- potential processing and beneficial reuse of biosolids and organic waste within the project.

3. BID SUBMISSION REQUIREMENTS

The subcontractor shall submit the following deliverables with their bid:

- complete pricing schedule with breakdown of rates (example schedule of rates provided in Appendix B). If pricing is based on the weight/quantity of waste or number of receptacles disposed of, please indicate within the schedule of rates. Please provide a comparison of costs with and without recycling and the resulting rebates. Please ensure that the schedule of rates provided aligns with project waste streams provided in Appendix A;
- all relevant waste management and disposal licence documentation required under statutory and other requirements for the subcontractor to operate these services;
- all relevant documentation for the subcontractor's nominated landfill operator(s) for proper disposal of general, non-recyclable and/or non-reuse waste including location of landfill and associated licensing;
- all relevant documentation for the subcontractor's nominated providers for proper disposal of contaminated materials including disposal location and method of disposal;
- all relevant documentation for the subcontractor's nominated recyclable providers including location of premises where recycling occurs;
- all relevant documentation for the subcontractor's nominated provider of controlled, hazardous and/or bio-hazardous wastes including disposal location and method of disposal and associated licensing;
- methodology for the processing and beneficial reuse of biosolids (e.g. filter cakes from sewerage and water treatment plants) and food waste, on project sites (see Section 4.6.1);
- types and sizes of waste storage equipment to be used on site;
- types and sizes of plant and equipment to be used in the removal of waste from site;
- the subcontractor's intended method of disposing of any waste materials suitable for reuse;
- a method statement of how the subcontractor intends to operate these services including off site segregation for recycling, reuse and proper disposal of waste; and
- copy of Heavy Vehicle Management Plan or Transport Management Plan, including an indicative timetable for the collection of project waste.

4. GENERAL NOTES

4.1. Site Location

4.1.1. Main Works

Main Works comprise four main precincts, including:

- Lobs Hole located at the end of Lobs Hole Ravine Road, approximately 14km from the intersection of Link Road and Ravine Road;
- Marica, access via Marica Trail, approximately 2km from the intersection of Snowy Mountain Highway and Coppermine Trail; and
- Tantangara, access via Tantangara Road, approximately 20 km from the intersection of Snowy Mountains Highway and Tantangara Road.
- Rock Forest.

Within these precincts various work fronts will require the collection of multiple waste streams.

All over-dimensional and heavy vehicles must travel to and from the Exploratory and Main Works sites via:

- Snowy Mountains Highway, Miles Franklin Drive and Spillway Road;
- Snowy Mountains Highway, Link Road and Lobs Hole Ravine Road; and
- Snowy Mountains Highway and Tantangara Road

4.1.2. Segment Factory

The Segment Factory is located on industrial-zoned land in the south-eastern corner of Polo Flat, to the east of Cooma. Entry to the site will be via Polo Flat Road. All over-dimensional and heavy vehicles must travel to and from the Segment Factory site via Polo Flat Road north and Monaro Highway.

4.1.3. Joule Ridge

The Joule Ridge workers accommodation is located at the end of Solomon Lane, within Cooma. All over-dimensional and heavy vehicles must travel to and from the Joule Ridge site via Solomon Lane and Monaro Highway.

4.2. Site Conditions

The project site is characteristically subject to alpine climatic conditions and consistent heavy winter snow. Winter temperatures can fall to below minus 20°C. Summer temperatures can reach as high as the mid-thirties in Snowy Mountains townships, and night-time temperatures can fall to sub-zero on occasion.

Areas of the project are located above the snowline and service deliveries and pickup will be required during winter period.

The subcontractor shall also note heavy vehicle restrictions during snow season between the months of June and October on weekends and public holidays, unless special approvals are obtained beforehand, and the requirement of continuous liaison with the project, with regard to heavy vehicle movement and scheduling.

4.3. Personnel

The sub-contractor will make available a dedicated project team, led by a Project Manager based either on-site or in the Cooma Project Office. The Project Manager will be responsible for the management of the project's waste management logistics.

4.3.1. Working Hours

At all times waste service work schedules will be based on demand for waste collection services, capacity of the road network and weather conditions and in consultation with Future Generation.

Works are approved to be undertaken 24 hours, 7 days per week within the Main Works sites and during operation of the Segment Factory.

At all times for the Joule Ridge camp, pick and delivery from the Segment Factory and Joule Ridge sites will be limited to 7 am to 6 pm, Monday to Sunday.

4.3.2. Inductions

Delivery driver's inductions will be provided by Future Generation and include safety protocols to be followed whilst travelling on internal and external roads. The briefing will reinforce posted speed limits, advisory speeds, and historic high accident points on winding sections of road, driving in snow and during icy conditions, and driver fatigue awareness training.

4.4. Materials and Logistics

The subcontractor shall ensure appropriate storage equipment is available on site and placed in suitable locations for the collection and storage of all project waste streams (Appendix A). This shall include sufficient storage equipment to maintain storage capacity when the subcontractor removes this equipment from site.

This storage equipment shall include, but not be limited to:

- suitable sized skips complete with lids and/or covers for general construction waste and recyclable waste;
- wheelie bins and or small skips for office and crib room waste fitted with covers and or lids;
- wheelie bins and or small skips for recyclables fitted with covers and or lids;
- suitable containers for oil and grease waste;
- suitable storage receptacles for hazardous and special wastes including, batteries and chemical drums, clinical and sanitary wastes, tyres and contaminated waste.

All waste skips and bins shall be vermin proof and have a fixed lids where requested, be cleaned as needed, both inside and out, to maintain appearance and to reduce odours.

The subcontractor shall be responsible for the transportation and delivery of all materials and equipment required to complete the scope of work in compliance with project, state and local transportation rules and regulations.

The supplier shall provide trucks compliant with Heavy Vehicle National Laws and Regulations. Additional requirements for plant working on construction site as per details attached within excel spreadsheet "Plant Standard Requirements" (Appendix C).

The subcontractor shall supply compliant and well-maintained vehicle(s) suitable for transferring waste from the collection service bins to the vehicles waste holding receptacle for unloading, segregation and disposal at the waste management facility.

Any damaged skips and bins shall be repaired or replaced without interrupting the waste collection service. The subcontractor shall provide adequate backup equipment such that uninterrupted service shall always be maintained. The subcontractor shall perform emergency repairs due to defective equipment, materials or workmanship, which are required to prevent damage to adjacent property or injury to persons, at subcontractor's sole expense, as soon as practicable, upon notification by Future Generation Manager. If the subcontractor fails to respond, or if repairs must be done before the subcontractor can respond, Future Generation shall have the right to make repairs and charge the subcontractor for actual costs of necessary labour and materials

4.4.1. Weed and Hygiene Declarations

In order to effectively manage the introduction of weeds and other pests into the Kosciusko National Park, a weed and pathogen checkpoint has been established at the entry to the site, to check for evidence of weeds, vegetative, soil and organic material on and within plant, vehicles and equipment being brought to site.

All subcontractor vehicles and plant (including receptacles) will be required to be accompanied by a Hygiene Declaration Form (Appendix D) to be provided to project personnel on arrival.

4.5. Removal

The subcontractor shall ensure that adequate appropriate equipment is maintained and available for removal of all waste streams from the project sites.

This removal shall include the removal of all waste streams provided Appendix A from their respective, provided receptacles, including but not limited to:

- general and recyclable waste bins;
- solid and slurry waste concrete;
- sewerage from holding tanks;
- containment bund oily waste and storm water waste;
- controlled hazardous and bio-hazardous materials; and
- contaminated material including contaminated materials as a result of spills.

The subcontractor shall ensure that the site is left in a clean and tidy state to the satisfaction of Future Generations representatives after its' removal operations of waste from site.

4.6. Disposal

The subcontractor will ensure that only general waste that cannot be recycled or reused is properly disposed of at the nominated appropriately licensed landfill facility utilising the nominated methods for disposal of general waste.

Future Generation will endeavour to separate recyclable office, camp and site materials to the extent practicable. The subcontractor will ensure that further off-site waste segregation is undertaken to maximise diversion from landfill.

The subcontractor will ensure that all possible recyclable waste is properly disposed of to its nominated recycle providers and recycle locations. Recycled and/or reused materials shall include but not be limited to steel, wood, timber, packing crate materials, cardboard, paper, glass, aluminium (containers, etc), plastics and organic waste (food scraps).

The subcontractor will ensure that all contaminated, controlled, hazardous and/or bio-hazardous waste streams are properly disposed of at its nominated disposal providers and disposal locations utilising the nominated methods for disposal of these wastes.

4.6.1. Organic Waste Recycling

The subcontractor will explore the feasibility of recycling and on-site beneficial reuse of organic waste streams, including biosolid filter cakes from the wastewater treatment plants and food wastes. Where required the project will liaise with and obtain relevant approvals the relevant authorities (e.g. EPA and NPWS).

The project has previously commissioned an *Organic Waste Recycling Strategy* (Appendix E), which identified the potential for organic wastes to be reused as soil amendments to assist in the manufacture of topsoil for rehabilitation works. The strategy recommended the development of a centralised facility and processing of organic waste via soil farming or use of a food waste dehydrator.

If economically feasible, when compared against cost of disposal of putrescible waste, the subcontractor will implement the recycling and reuse of organic waste.

4.7. Quantity

The estimated annual quantity of each waste type is shown in Appendix F attached. However, the actual quantities of waste generated during each year may vary from these estimated quantities.

Future Generation makes no representations or guarantees regarding the quantities that will be generated during the contract term. The subcontractor shall not be entitled to any increase in the unit bid prices because of changes in the waste generation rates.

4.8. Frequency

The subcontractor shall remove all waste streams from site as required on at least a weekly basis for full and final waste segregation off-site prior to disposal. Food scraps shall be removed from site daily. Specialty waste streams including, sewerage, special, controlled, hazardous, bio-hazardous and contaminated materials shall be removed on notification from Future Generation and/or its approved subcontractors.

4.9. Reporting

The subcontractor shall meet all recording and report requirements in accordance with the terms and conditions of the contract. These requirements would include, but not be limited to:

- complete data management, reporting volumes of each waste stream and classification, amount recycled versus disposal, and location of disposal or other services providers used;
- volumes of waste to be recorded weekly and reported monthly, with an annual report compiled for the financial year; and
- auditable records for location of disposal, tipping tickets, licences and receipts, dates and volumes removed from site.

Documentation for all waste transported from site to approved waste management facilities must be based on the weigh bridge dockets showing the date, time, gross weight, and net weight of the trucks and the type of waste contained in the truck.

For waste that is intermingled with waste collected from other customers an accurate record must be kept by the drivers showing the type of container, type of waste, date of collection, and estimated volume of waste in cubic metres. The subcontractor shall provide unit conversion factors for deriving the tonnage of various wastes, collected in this manner, based on the net weight of the trucks hauling such waste to the subcontractor facilities.

The subcontractor is required to obtain approval from Future Generation prior to engaging any lower tier subcontractors for the SoW.

4.10. Rebate Recovery

Where waste materials generated by the project attract rebates upon recycling, such as scrap metal, waste oil, some plastics and cardboard. The sub-contractor will ensure that any materials subject to rebates are tracked and payments for these materials are provided to Future Generation.

4.11. Quality Systems and Inspection

The subcontractor shall be responsible for the performance of all quality control and acceptance testing as specified under the Contract, including the provision of suitably qualified personnel, equipment, and facilities.

The subcontractor shall also be responsible for the submission of all documentation as required by Project Quality Specifications and applicable Australian Standards.

Typical documentation to be submitted shall include as a minimum:

- Quality Management Plan;
- Test Certificates / Certificates of Compliance.

All quality documentation shall be listed in the subcontractor's Document Register and will be subject to approval by Future Generation.

4.12. Health, Safety, and Environment

The subcontractor shall comply with all Safety and Environmental Management requirements for the project.

A Transport Management Plan shall be developed to the satisfaction of Future Generation. This plan will include an indicative waste collection schedule as well as a description of the measures that will be implemented to:

- minimise the traffic safety impacts on road users on Snowy Mountain Highway and Link Road;
- restrict vehicle speed limits to 40km/h on Lobs Hole Ravine Road ;
- schedule the use of heavy vehicles to minimise convey length or congestion on the public road network; and
- ensure loaded vehicles entering or leaving the site have their loads covered and contained.

5. CLARIFICATIONS, DEVIATIONS AND TECHNICAL QUERIES

If the subcontractor seeks any relaxation waiver or query of any requirement within this SoW, the subcontractor shall complete a Technical Deviations List.

The subcontractor must clearly identify all elements of the proposed relaxation, waiver or query in accordance with any applicable part of this SoW, and shall detail any resulting technical, commercial and / or schedule impact.

Following Contract Award, the subcontractor shall submit a Technical Query (TQ) form.

6. DOCUMENTATION AND DELIVERABLES

The subcontractor shall submit a document register within 14 days of Contract Award for approval.

7. APPLICABLE DOCUMENTS

Document Number	Document Title	Rev.
S2-FGJV-ENV-PLN-0048	Main Works – Waste Management Plan	A
S2-FGJV-ENV-PLN-0073	Segment Factory – Waste Management Plan	C
S2-FGJV-ENV-PLN-0036	Exploratory Works – Waste Management Plan	3
S2-FGJV-ENV-PLN-0049	Main Works – Contaminated Land Management Plan	A
S2-FGJV-ENV-PLN-0037	Contaminated Land Management Plan	3
S2-FGJV-ENV-PLN-0007	Main Works – Environmental Management Strategy	B
S2-FGJV-ENV-PLN-0022	Environmental Management Strategy	3
S2-FGJV-ENV-PLN-0065	Segment Factory – Environmental Management Strategy	D
S2-FGJV-QUA-PLN-0001	Quality Management Plan	D
7	HSE Management Plan	D
Codes, Standards and Specifications		
<i>Waste Classification Guidelines Part 1: Classifying waste (NSW EPA, 2014);</i>		
<i>Waste Classification Guidelines Part 2: Immobilisation of waste (NSW EPA, 2014);</i>		
<i>Best Practice Waste Reduction Guidelines for the Construction and Demolition Industry (tools for Practice) (Natural Heritage Trust, 2000);</i>		
<i>Waste Reduction and Purchasing Policy 2011-2014 (WRAPP), (NSW Government);</i>		
<i>Guidelines for Consultants Reporting on Contaminated Sites (EPA, 2000);</i>		
<i>Guidelines on Resource Recovery Exemptions - Land Application of Waste Materials as Fill (DECCW, 2011);</i>		
<i>Storing and Handling Liquids, Environmental Protection: Participants Manual (NSW DECC, 2007);</i>		
<i>Excavated Natural Material Exemption 2014 (EPA, 2014);</i>		
<i>Excavated Natural Material Order 2014 (EPA, 2014);</i>		
<i>Effluent Exemption 2014 (EPA, 2014);</i>		
<i>Effluent Order 2014 (EPA, 2014);</i>		
<i>Recovered Aggregate Exemption 2014 (EPA, 2014);</i>		
<i>Recovered Aggregate Order 2014 (EPA, 2014); and</i>		
<i>National Environment Protection (Assessment of Site Contamination) Measure 1999 (National Environment Protection Council (NEPC), April 2013).</i>		
<i>Heavy Vehicle (Adoption of National Law) Act 2013</i>		
<i>Heavy Vehicle (Adoption of National Law) Regulation 2013</i>		

APPENDIX A: POTENTIAL WASTES STREAMS

Aspect	Waste types	Classification	Proposed reuse/recycling/disposal
Main Works			
Site establishment	Hazardous and contaminated waste	Hazardous waste, Special waste	Offsite disposal at an appropriately licenced facility
Tunnelling and bulk earthworks	Water treatment plant reject (sludge, brine, filter cake etc)	Liquid General solid waste (non-putrescible)	Reuse within the treatment train or offsite disposal at an appropriately licenced facility
Ancillary facility and workshop operation	Tyres	Special waste	Recycling or offsite disposal at an appropriately licensed facility
	Waste generated by the maintenance of equipment including air and oil filters and rags	General solid waste (non-putrescible)	Recycling or offsite disposal at an appropriately licensed facility
	Oils, grease, fuel, chemicals and other fluids	Liquid	Recycling or offsite disposal at an appropriately licensed facility
	Batteries	Hazardous waste	Offsite disposal at an appropriately licensed landfill facility
	Radiator Fluid	Hazardous waste	Offsite disposal at an appropriately licensed landfill facility
	Hydraulic Fluid	Hazardous waste	Offsite disposal at an appropriately licensed landfill facility
	Domestic waste generated by workers	General solid waste (non-putrescible)	Offsite disposal at an appropriately licensed landfill facility
	Sewage reject (sludge, brine, filter cake etc)	Liquid General solid waste (non-putrescible)	Reuse within the treatment train or offsite disposal at an appropriately licenced facility
Office and site camp operation	Paper, cardboard and plastic	General solid waste (non-putrescible)	Segregation and recycling offsite
	Glass bottles and aluminium cans	General solid waste (non-putrescible)	Recycling offsite
	Ink cartridges	General solid waste (non-putrescible)	Recycling offsite
	Food Waste	General solid waste (non-putrescible)	Recycling or offsite disposal at an appropriately licensed facility
	Sanitary product waste and medical waste	General solid waste (putrescible)	Recycling or offsite disposal at an appropriately licensed facility
	Medical and clinical waste	Special Waste	Recycling or offsite disposal at an appropriately licensed facility
General building and construction waste	Steel Reinforcing	General solid waste (non- putrescible)	Recycling or offsite disposal at an appropriately licensed facility
	Conduits and pipes	General solid waste (non- putrescible)	Recycling or offsite disposal at an appropriately licensed facility

Aspect	Waste types	Classification	Proposed reuse/recycling/disposal
	Concrete (solids and washouts) and asphalt	General solid waste (non- putrescible)	Recycling or offsite disposal at an appropriately licensed facility
	Timber formwork	General solid waste (non- putrescible)	Recycling or offsite disposal at an appropriately licensed facility
	Packaging materials, including wood, plastic, cardboard and metals	General solid waste (non- putrescible)	Offsite disposal at an appropriately licensed landfill facility.
Segment Factory and Joule Ridge			
Plant operation	Tyres	Special waste	Recycling or offsite disposal at an appropriately licensed facility
	Waste generated by the maintenance of equipment including air and oil filters and rags	General solid waste (non-putrescible)	Recycling or offsite disposal at an appropriately licensed facility
	Oils, grease, fuel, chemicals and other fluids	Liquid	Recycling or offsite disposal at an appropriately licensed facility
	Batteries	Hazardous waste	Offsite disposal at an appropriately licensed landfill facility.
	Radiator Fluid	Hazardous waste	Offsite disposal at an appropriately licensed landfill facility.
	Hydraulic Fluid	Hazardous waste	Offsite disposal at an appropriately licensed landfill facility.
	Domestic waste generated by workers	General solid waste (non-putrescible)	Offsite disposal at an appropriately licensed landfill facility.
General building and construction waste	Steel Reinforcing	General solid waste (non- putrescible)	Recycling or offsite disposal at an appropriately licensed facility
	Conduits and pipes	General solid waste (non- putrescible)	Recycling or offsite disposal at an appropriately licensed facility
	Concrete (solids and washouts) and asphalt	General solid waste (non- putrescible)	Recycling or offsite disposal at an appropriately licensed facility
	Timber formwork	General solid waste (non- putrescible)	Recycling or offsite disposal at an appropriately licensed facility
	Packaging materials, including wood, plastic, cardboard and metals	General solid waste (non- putrescible)	Recycling or offsite disposal at an appropriately licensed facility
Office and site camp operation	Paper, cardboard and plastic	General solid waste (non-putrescible)	Recycling offsite
	Glass bottles and aluminium cans	General solid waste (non-putrescible)	Recycling offsite
	Ink cartridges	General solid waste (non-putrescible)	Recycling offsite

Aspect	Waste types	Classification	Proposed reuse/recycling/disposal
	Food Waste	General solid waste (non-putrescible)	Recycling or offsite disposal at an appropriately licensed facility
	Sanitary product waste and medical waste	General solid waste (putrescible)	Recycling or offsite disposal at an appropriately licensed facility
	Medical and clinical waste	Special Waste	Recycling or offsite disposal at an appropriately licensed facility

APPENDIX B: SCHEDULE OF RATES

TO BE INCLUDED

APPENDIX C: PLANT STANDARD REQUIREMENTS

TO BE INCLUDED

APPENDIX D: HYGIENE DECLARATION FORM

TO BE INCLUDED

APPENDIX E: SOIL MANUFACTURING AND ORGANIC WASTE RECYCLING STRATEGY

TO BE INCLUDED

APPENDIX F: QUANTITIES

NUMBERS TO BE CHECKED AND INCLUDED

Please note that the below quantities are indicative only. Within each quantity are various waste types and locations.

Snowy 2.0 Project Waste Summary	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22
Total Camp Waste (tonne)	43.25	73.99	131.78	175.07	175.07	160.51	177.70	177.07	182.97	177.07	182.97	182.97	177.07	182.97	177.07	182.97
Site Office Total Waste (tonne)	13.87	10.07	11.30	12.64	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49
Crib and Amenities Total Waste (tonne)	3.28	3.97	4.58	6.61	7.55	7.95	8.36	8.36	8.36	8.36	8.36	8.36	8.36	8.36	8.36	8.36
Total Construction Building Waste (tonne)	720.00	720.00	760.00	780.00	800.00	600.00	580.00	580.00	580.00	580.00	580.00	540.00	520.00	520.00	520.00	520.00
Warehouse Waste Generation (m3)	287.00	287.00	287.00	287.00	287.00	287.00	287.00	287.00	287.00	287.00	287.00	287.00	287.00	287.00	287.00	287.00
Plant Waste - Liquid (L)	750.00	750.00	750.00	750.00	750.00	750.00	750.00	750.00	750.00	750.00	750.00	750.00	750.00	750.00	750.00	750.00
Plant Waste - Haardous Liquid (L)	2000.00	2000.00	2000.00	2000.00	2000.00	2000.00	2000.00	2000.00	2000.00	2000.00	2000.00	2000.00	2000.00	2000.00	2000.00	2000.00
Plant Waste - General (tonne)	1884.00	1884.00	1884.00	1884.00	1884.00	1884.00	1884.00	1884.00	1884.00	1884.00	1884.00	1884.00	1884.00	1884.00	1884.00	1884.00
Contaminated Soil Waste (m3 / month)	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Liquid Waste (kL)	104.25	113.03	120.00	149.03	182.93	239.40	220.88	213.75	220.88	218.70	206.03	220.88	213.75	220.88	213.75	220.88

Please note that the below quantities are indicative only. Within each quantity are various waste types and locations.

Snowy 2.0 Project Waste Summary	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23
Total Camp Waste (tonne)	182.97	165.27	182.97	177.07	182.97	177.07	182.97	182.97	177.07	182.97	177.07	182.97
Site Office Total Waste (tonne)	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49
Crib and Amenities Total Waste (tonne)	8.36	8.36	8.36	8.36	8.36	8.36	8.36	8.36	8.36	8.36	8.36	8.36
Total Construction Building Waste (tonne)	500.00	500.00	500.00	500.00	500.00	500.00	500.00	500.00	500.00	500.00	500.00	500.00
Warehouse Waste Generation (m3)	287.00	287.00	287.00	287.00	287.00	287.00	287.00	287.00	287.00	287.00	287.00	287.00
Plant Waste - Liquid (L)	750.00	750.00	750.00	750.00	750.00	750.00	750.00	750.00	750.00	750.00	750.00	750.00
Plant Waste - Haardous Liquid (L)	2000.00	2000.00	2000.00	2000.00	2000.00	2000.00	2000.00	2000.00	2000.00	2000.00	2000.00	2000.00
Plant Waste - General (tonne)	1884.00	1884.00	1884.00	1884.00	1884.00	1884.00	1884.00	1884.00	1884.00	1884.00	1884.00	1884.00
Contaminated Soil Waste (m3 / month)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
Liquid Waste (kL)	220.88	209.40	220.88	213.75	220.88	218.70	206.03	220.88	213.75	220.88	213.75	220.88